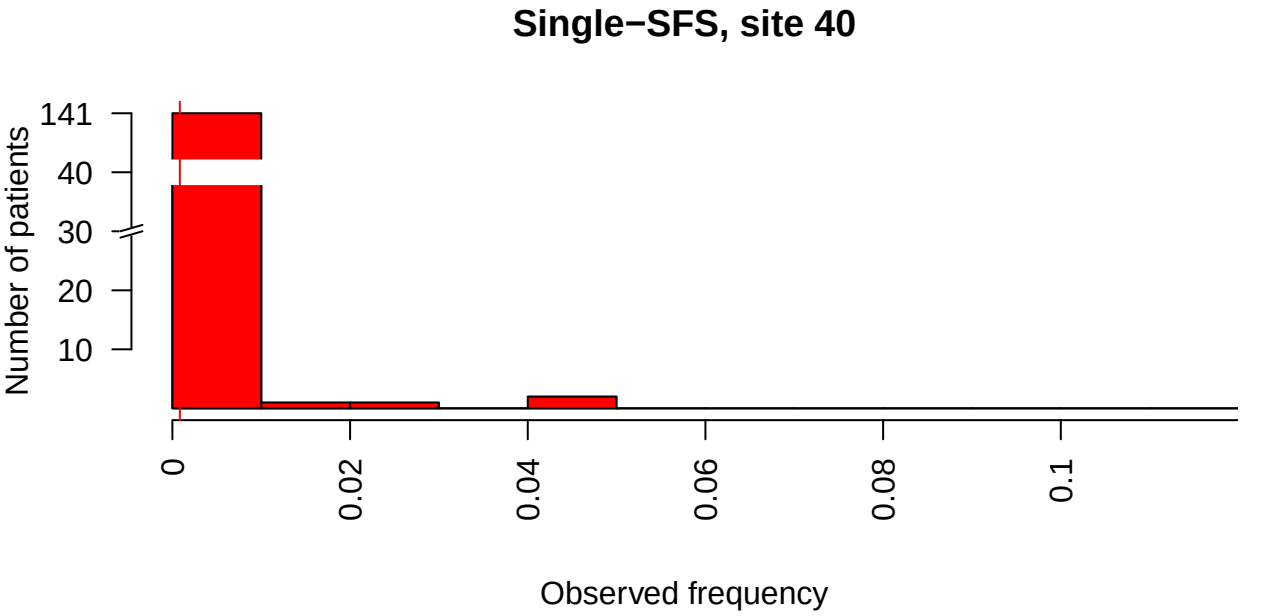
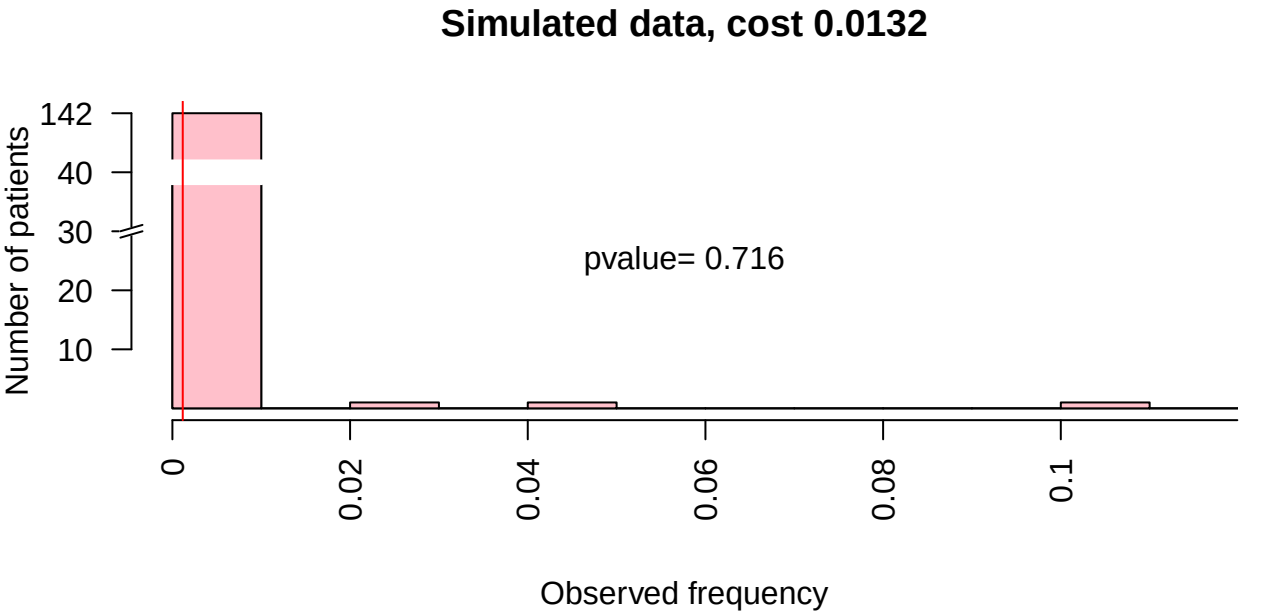
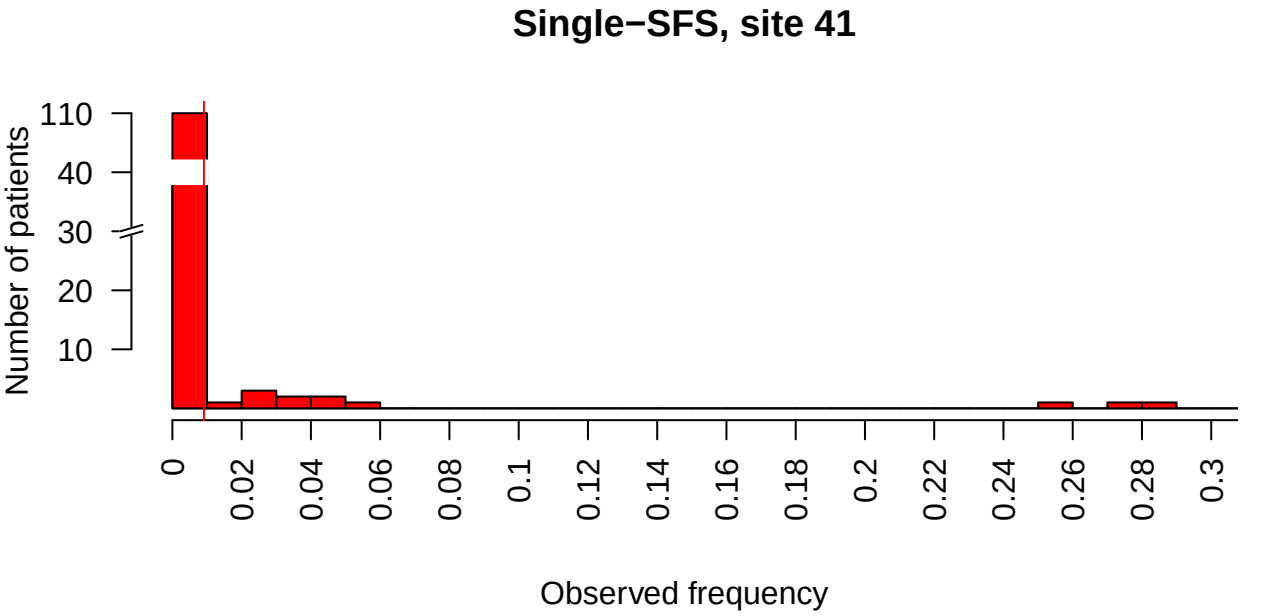
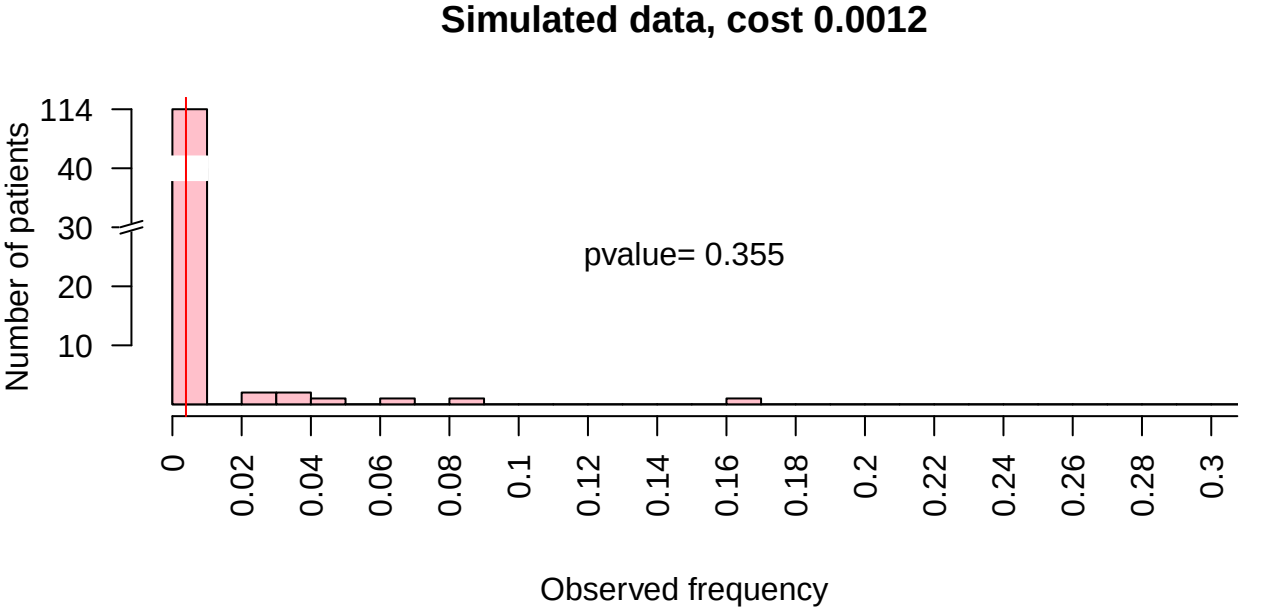
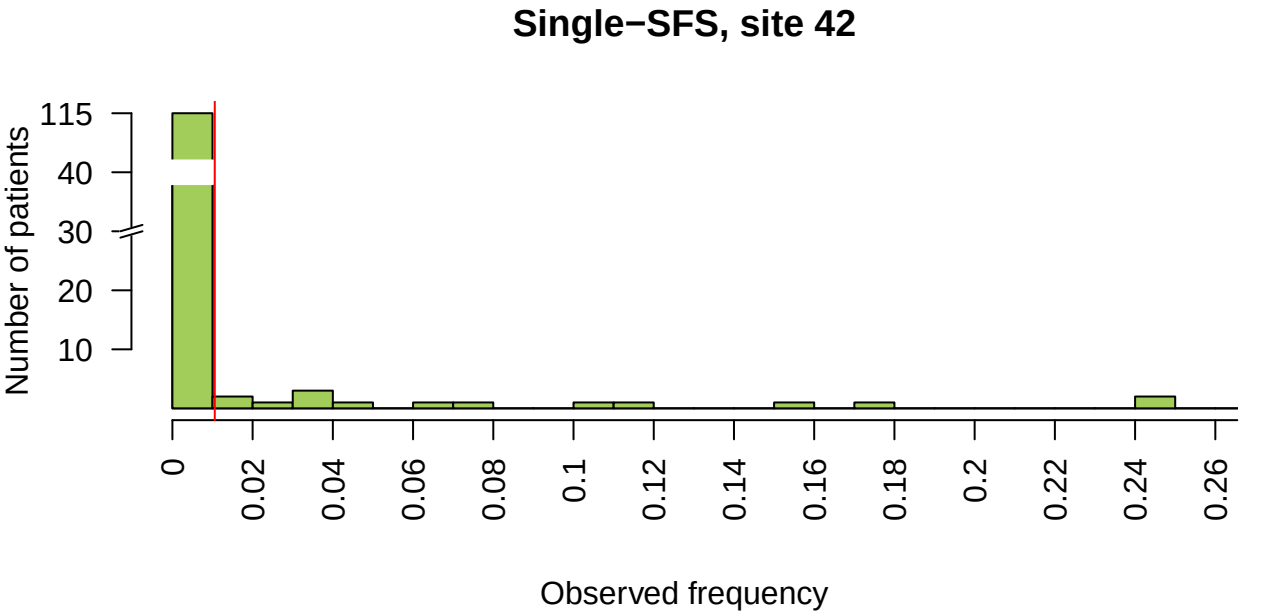
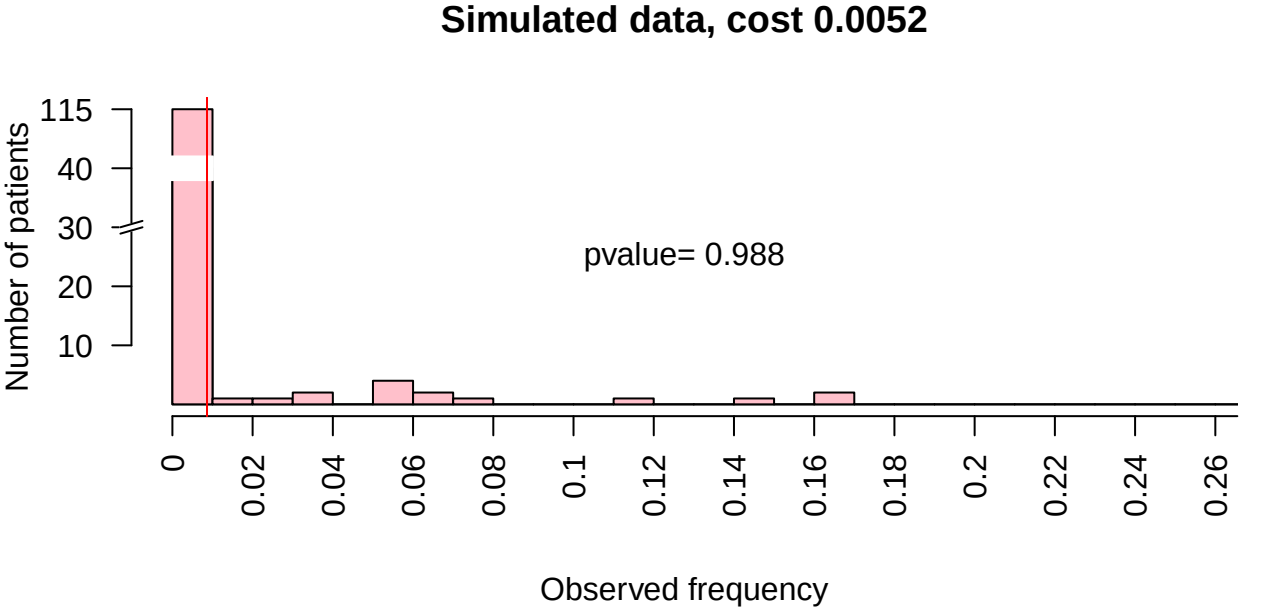

Single−SFS, site 40
Number of patients
141
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
Observed frequency

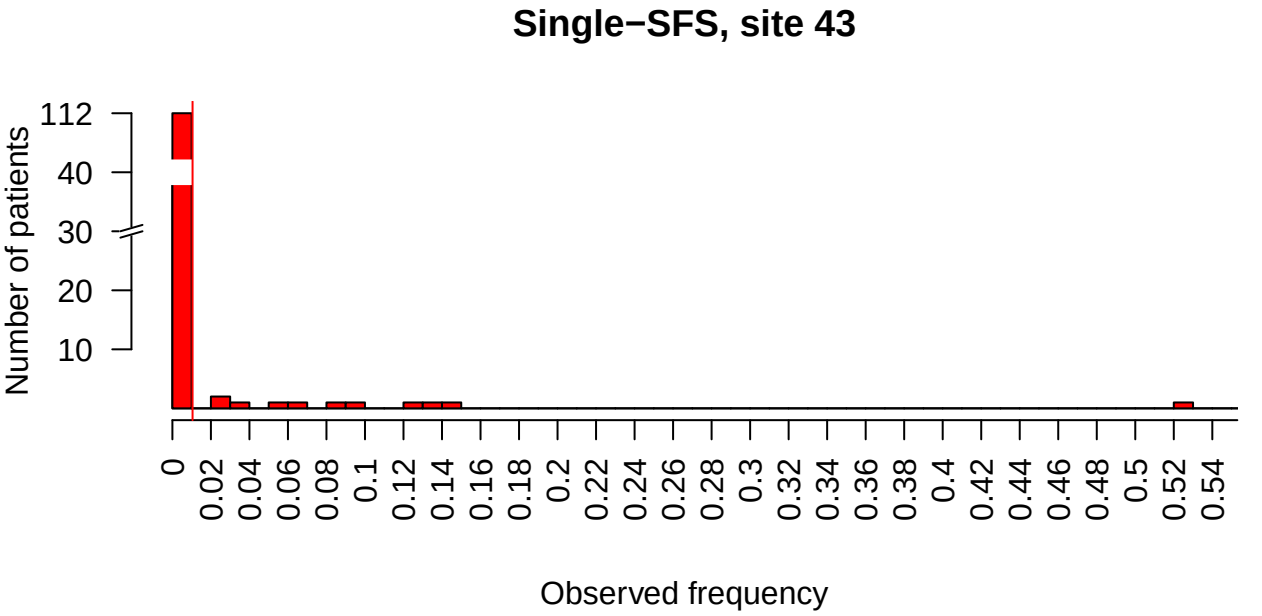

Simulated data, cost 0.0132
Number of patients
142
40
30
20
10
pvalue= 0.716
0
0.02
0.04
0.06
0.08
0.1
Observed frequency

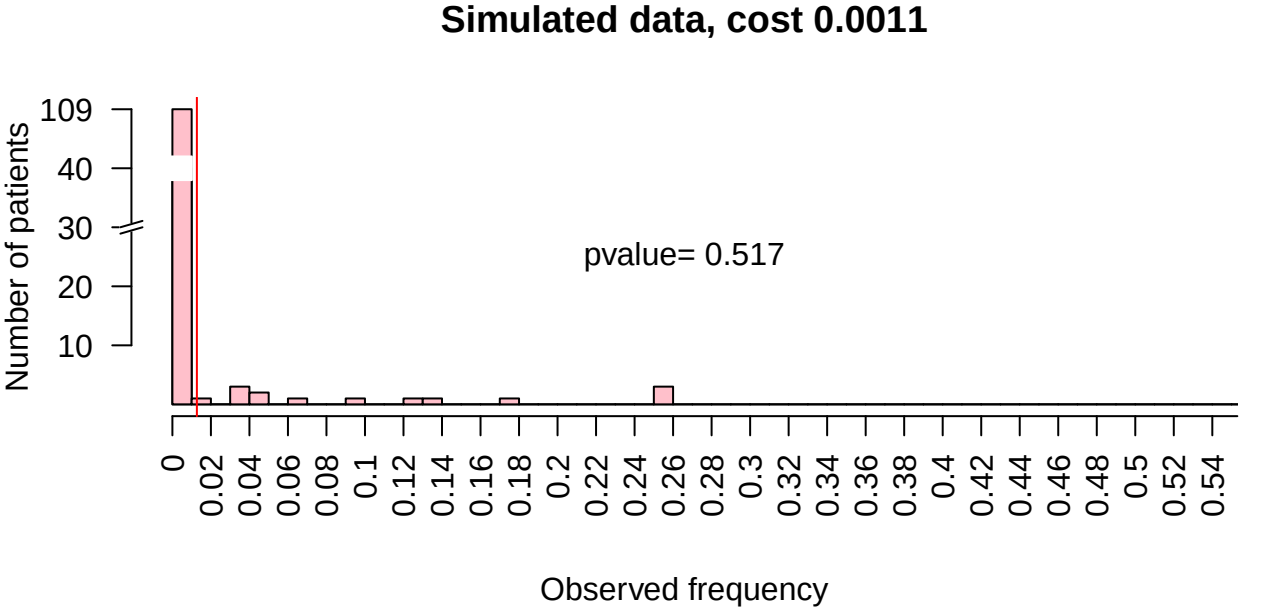

Single−SFS, site 41
Number of patients
110
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
0.24
0.26
0.28
0.3
Observed frequency

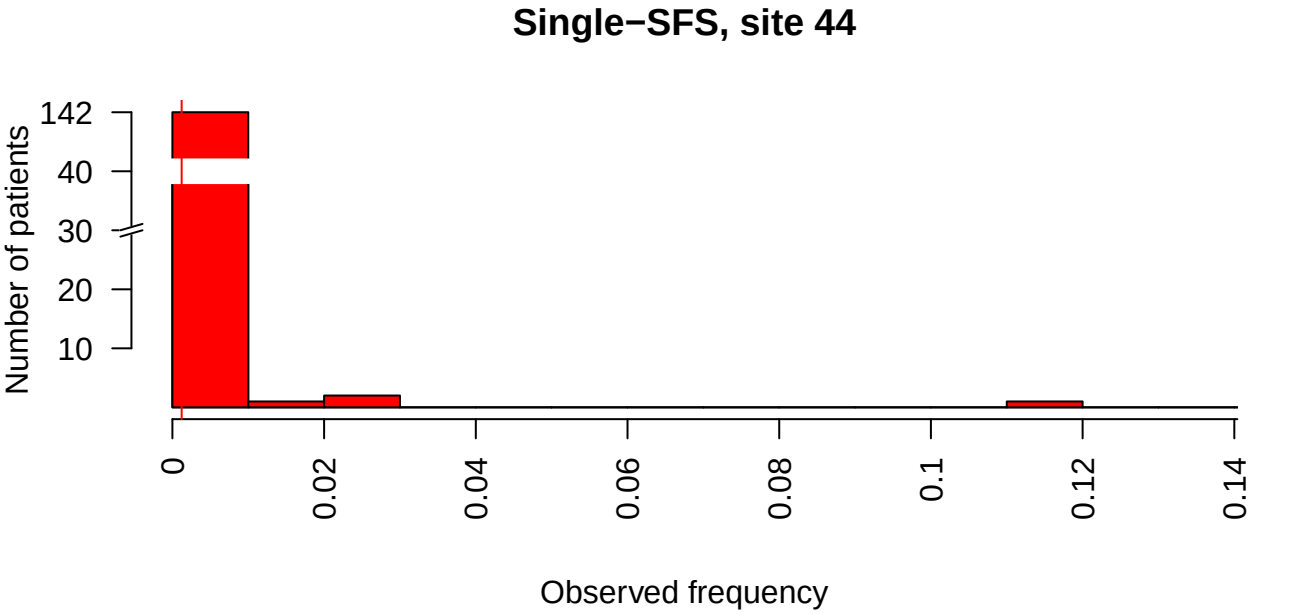

Simulated data, cost 0.0012
Number of patients
114
40
30
20
10
pvalue= 0.355
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
0.24
0.26
0.28
0.3
Observed frequency

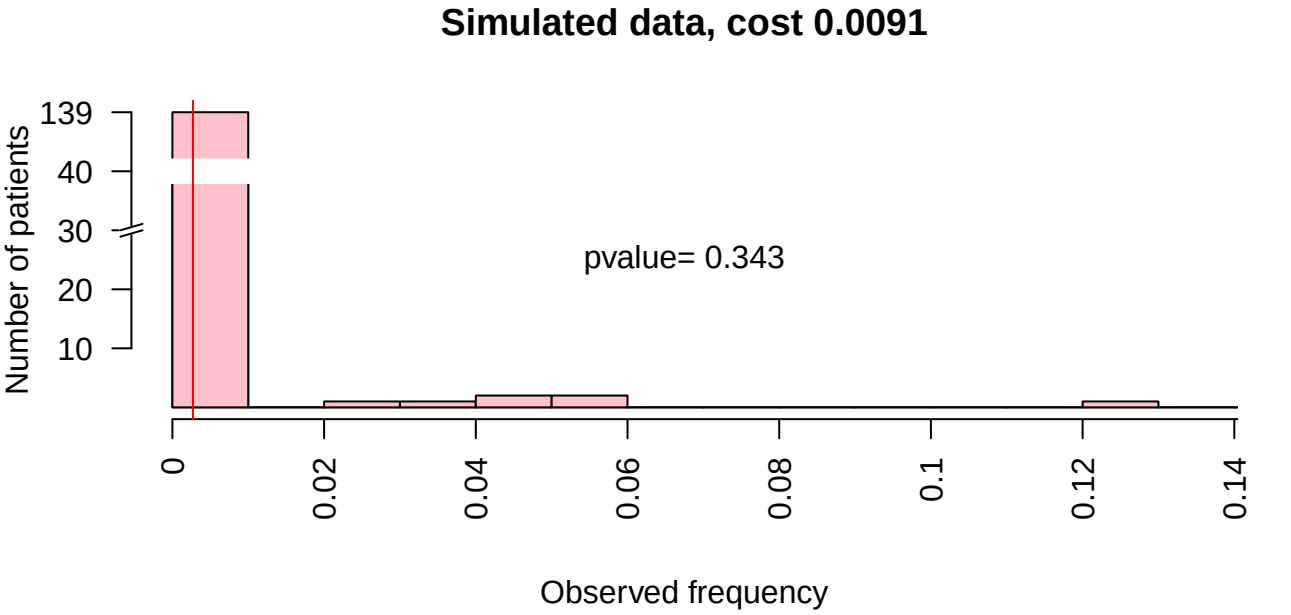

Single−SFS, site 42
Number of patients
115
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
0.24
0.26
Observed frequency

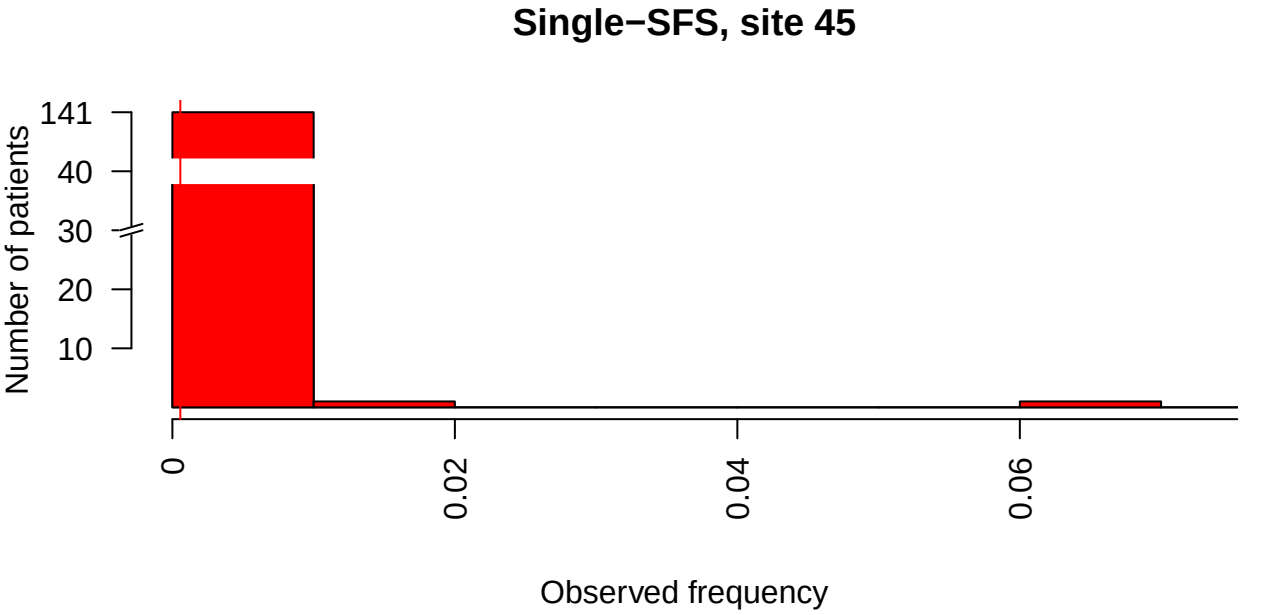

Simulated data, cost 0.0052
Number of patients
115
40
30
20
10
pvalue= 0.988
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
0.24
0.26
Observed frequency

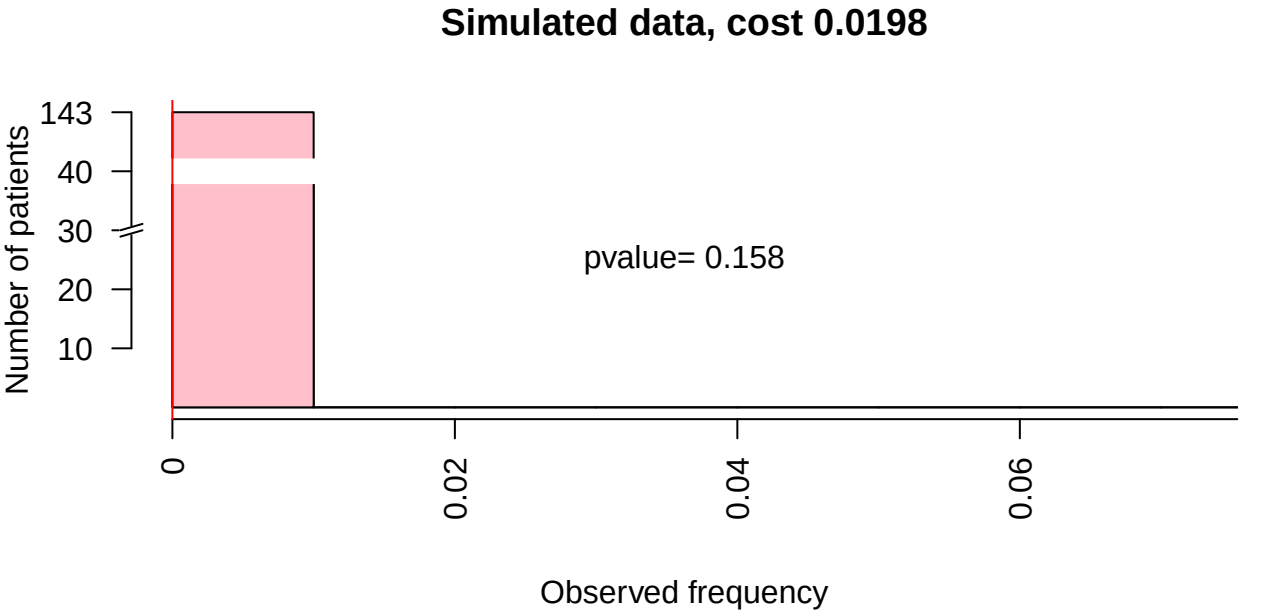

Single−SFS, site 43
Number of patients
112
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
0.24
0.26
0.28
0.3
0.32
0.34
0.36
0.38
0.4
0.42
0.44
0.46
0.48
0.5
0.52
0.54
Observed frequency

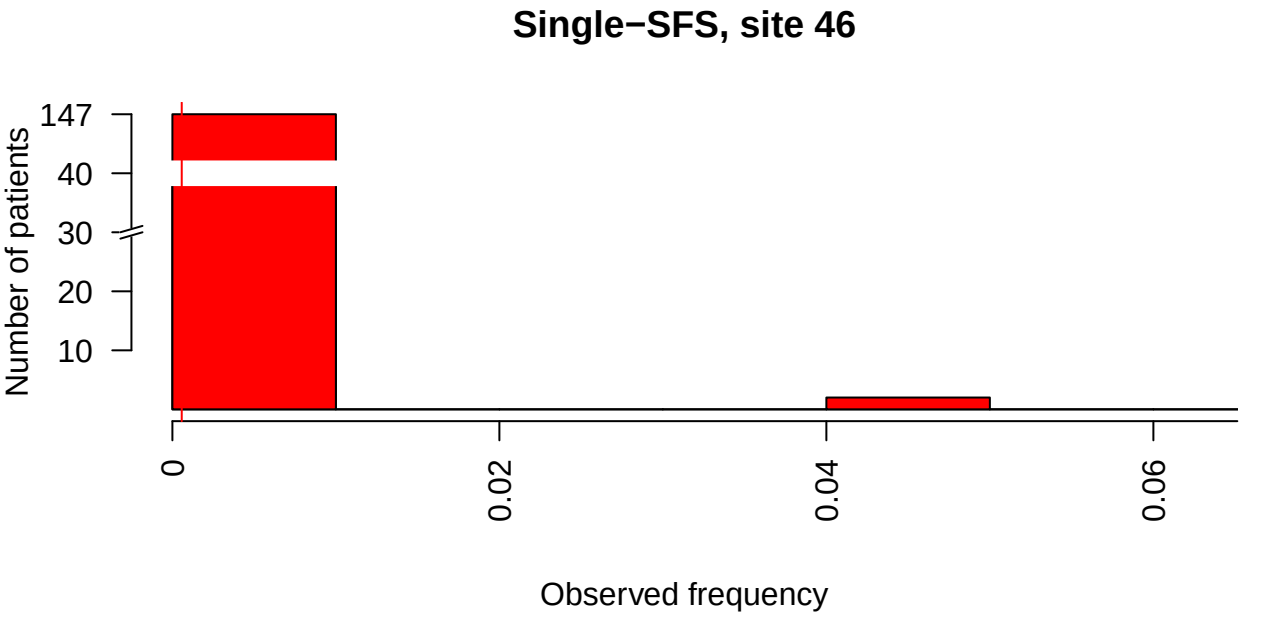

Simulated data, cost 0.0011
Number of patients
109
40
30
20
10
pvalue= 0.517
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
0.24
0.26
0.28
0.3
0.32
0.34
0.36
0.38
0.4
0.42
0.44
0.46
0.48
0.5
0.52
0.54
Observed frequency

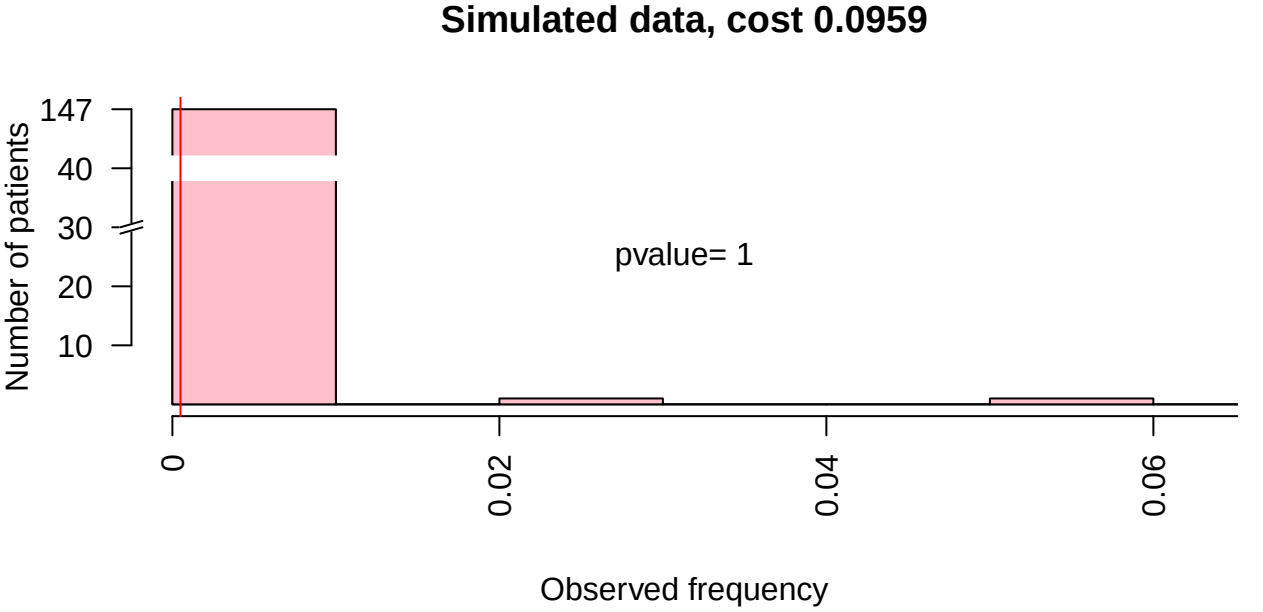

Single−SFS, site 44
Number of patients
142
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
Observed frequency

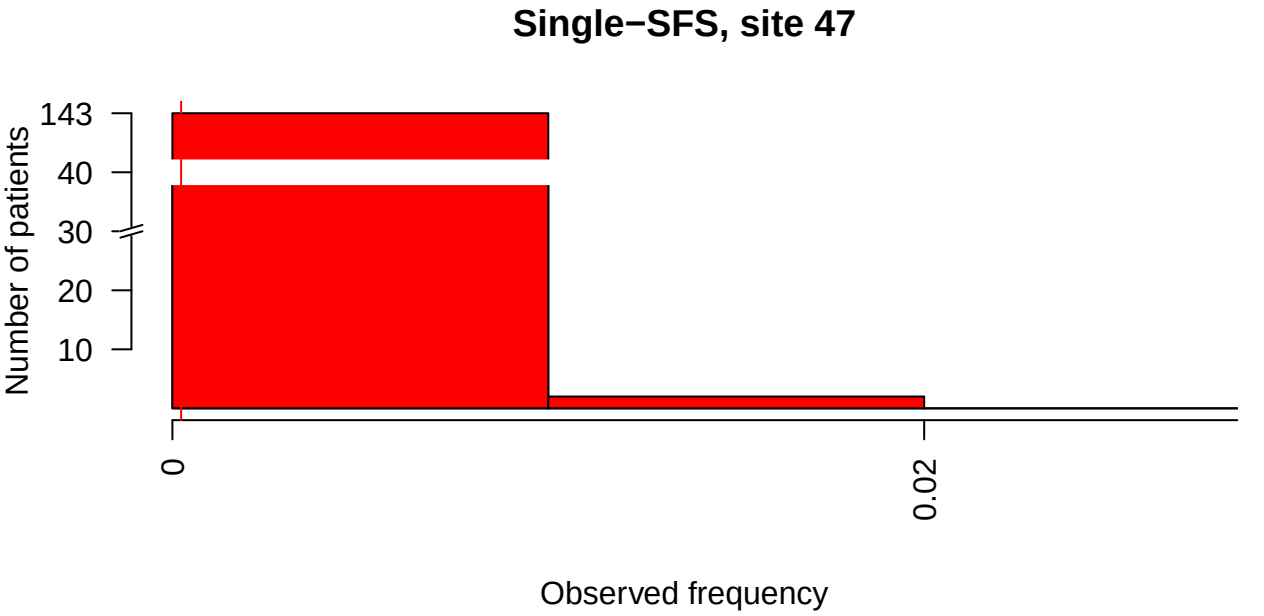

Simulated data, cost 0.0091
Number of patients
139
40
30
20
10
pvalue= 0.343
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
Observed frequency

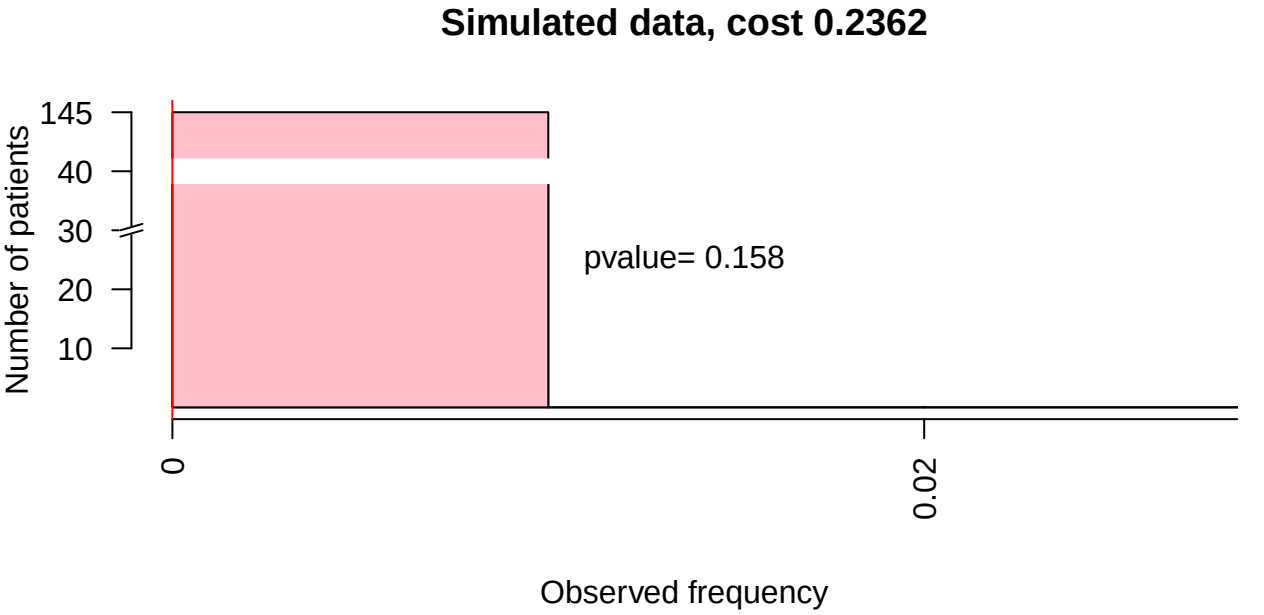

Single−SFS, site 45
Number of patients
141
40
30
20
10
0
0.02
0.04
0.06
Observed frequency

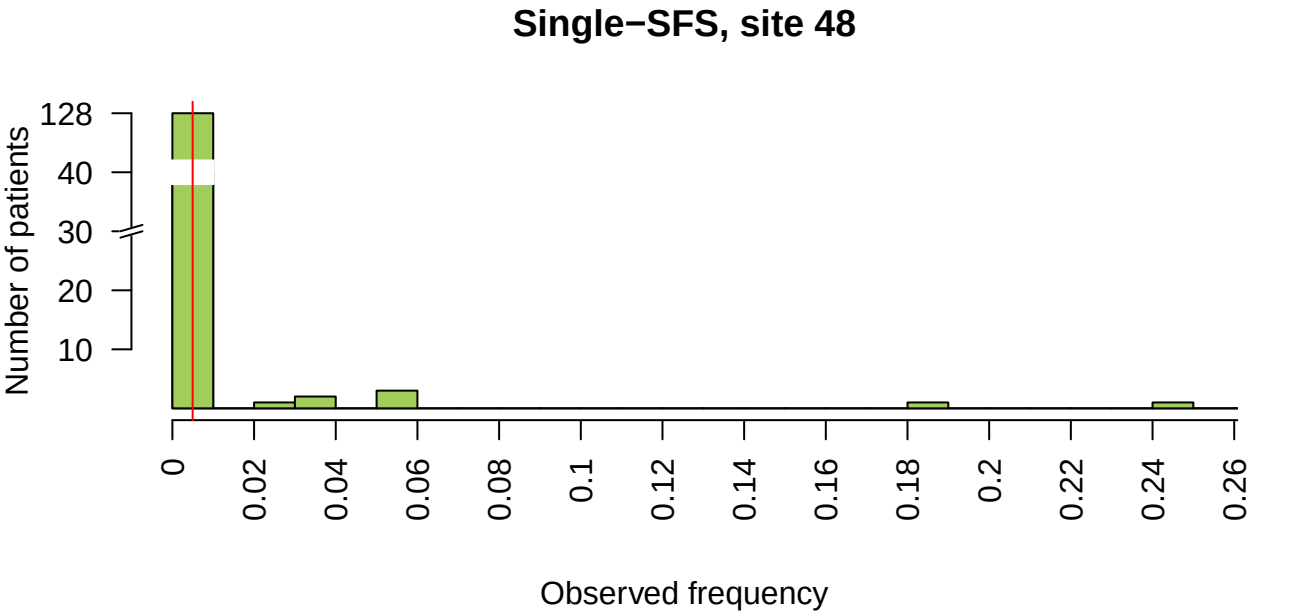

Simulated data, cost 0.0198
Number of patients
143
40
30
20
10
pvalue= 0.158
0
0.02
0.04
0.06
Observed frequency

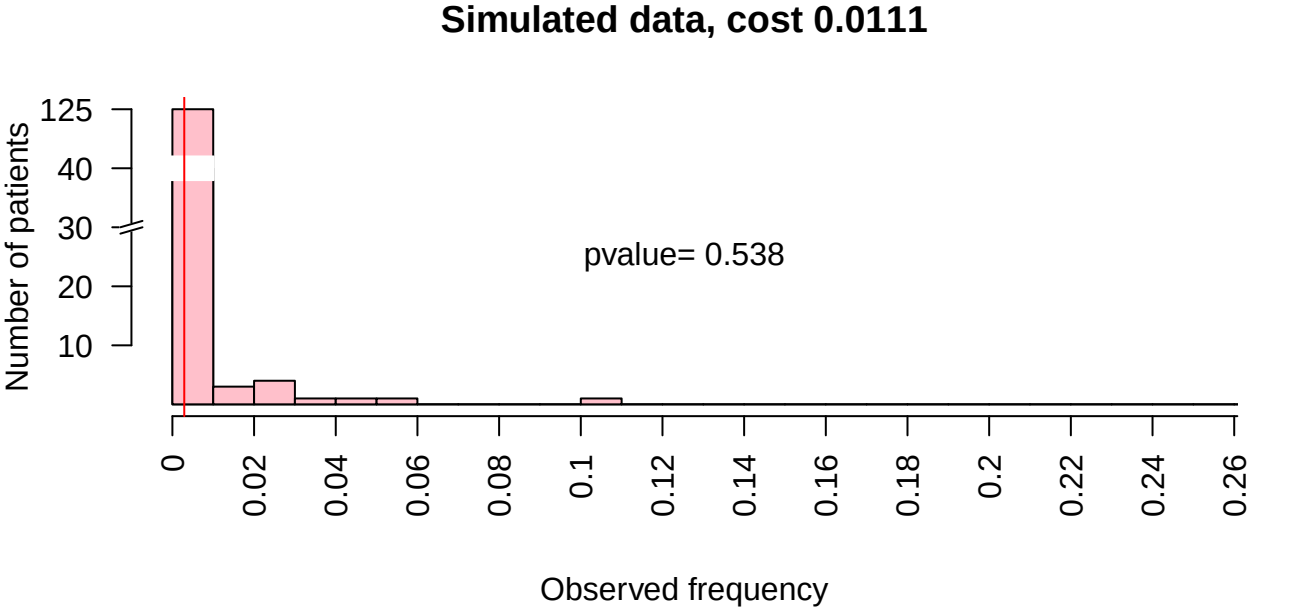

Single−SFS, site 46
Number of patients
147
40
30
20
10
0
0.02
0.04
0.06
Observed frequency

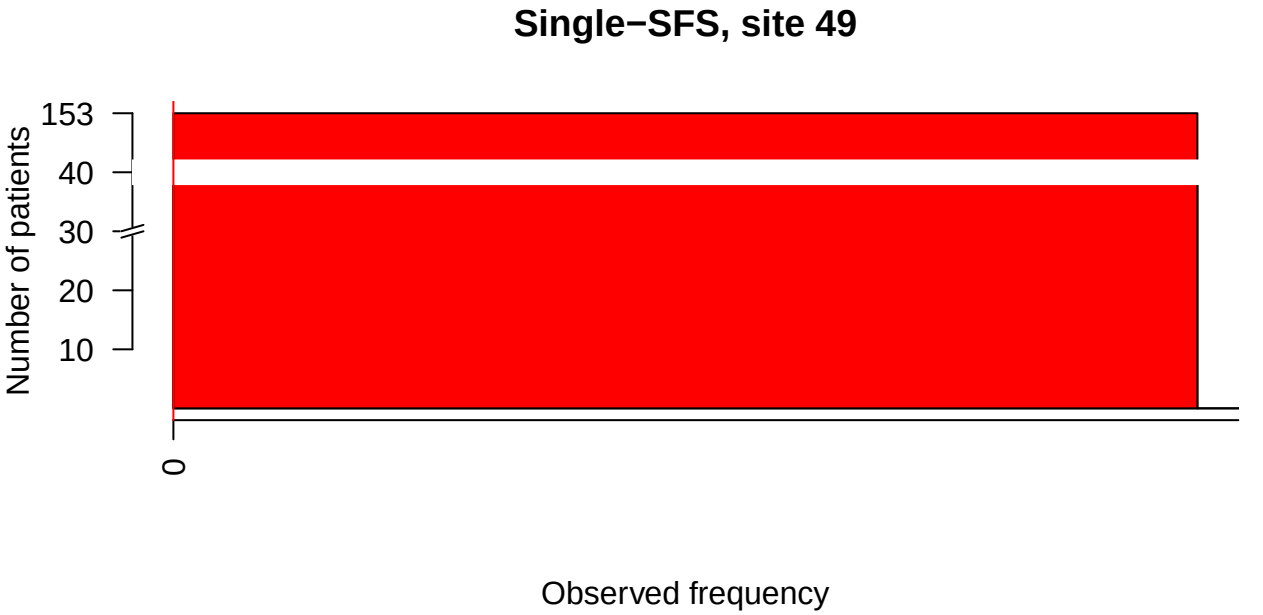

Simulated data, cost 0.0959
Number of patients
147
40
30
20
10
pvalue= 1
0
0.02
0.04
0.06
Observed frequency

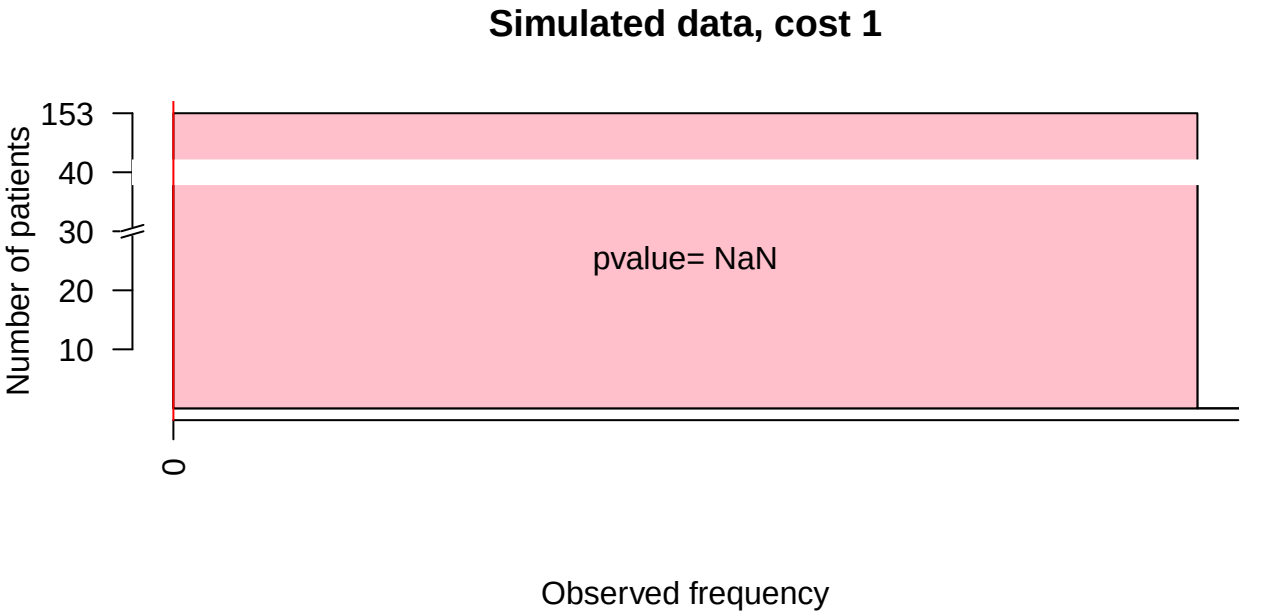

Single−SFS, site 47
Number of patients
143
40
30
20
10
0
0.02
Observed frequency

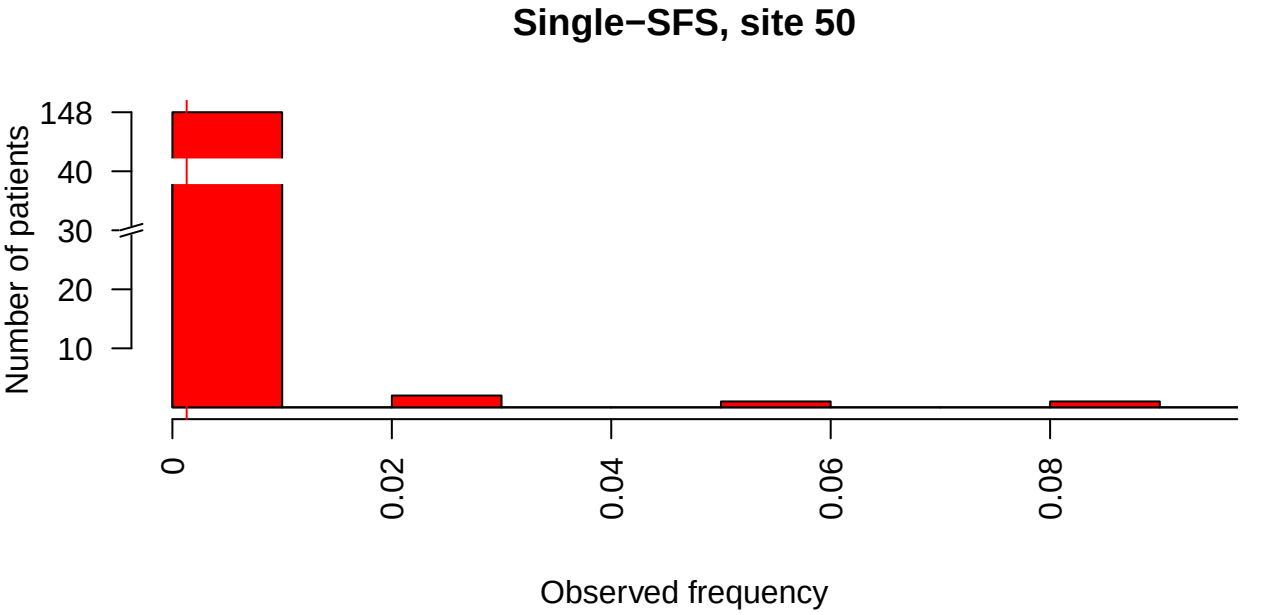

Simulated data, cost 0.2362
Number of patients
145
40
30
20
10
pvalue= 0.158
0
0.02
Observed frequency

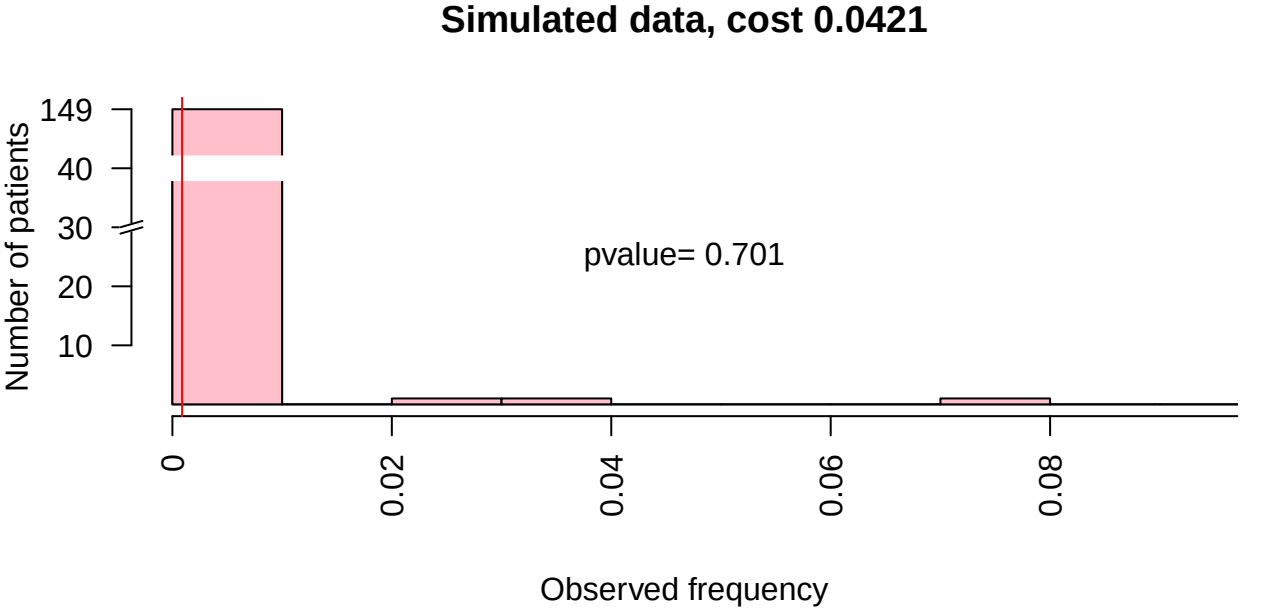

Single−SFS, site 48
Number of patients
128
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
0.24
0.26
Observed frequency

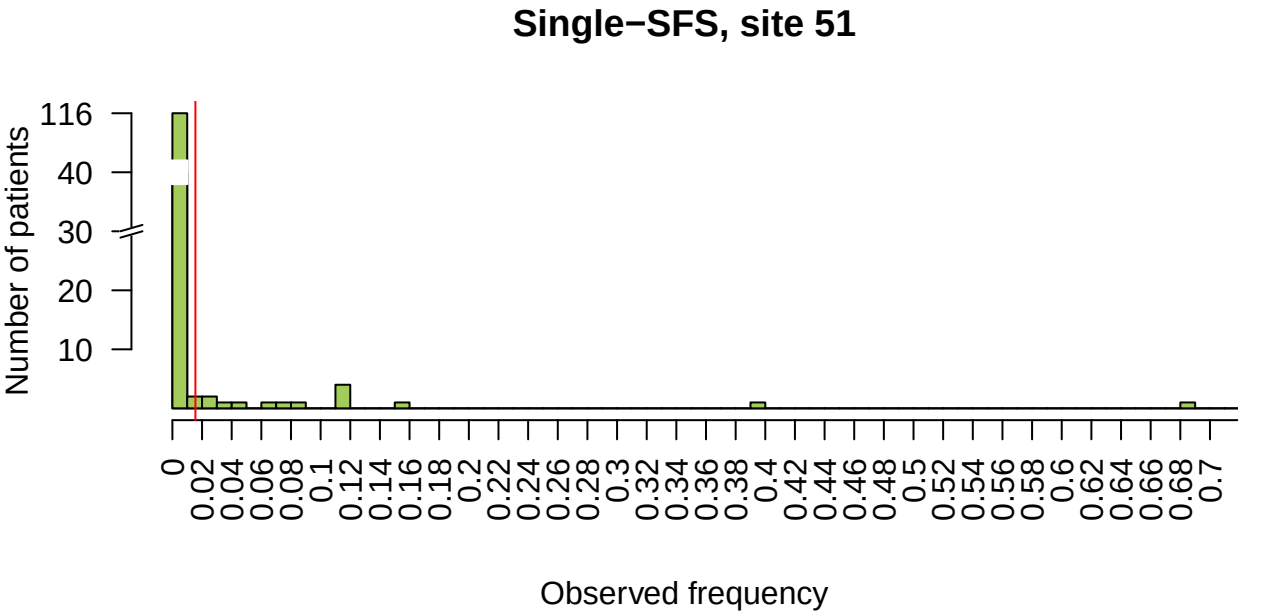

Simulated data, cost 0.0111
Number of patients
125
40
30
20
10
pvalue= 0.538
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
0.24
0.26
Observed frequency

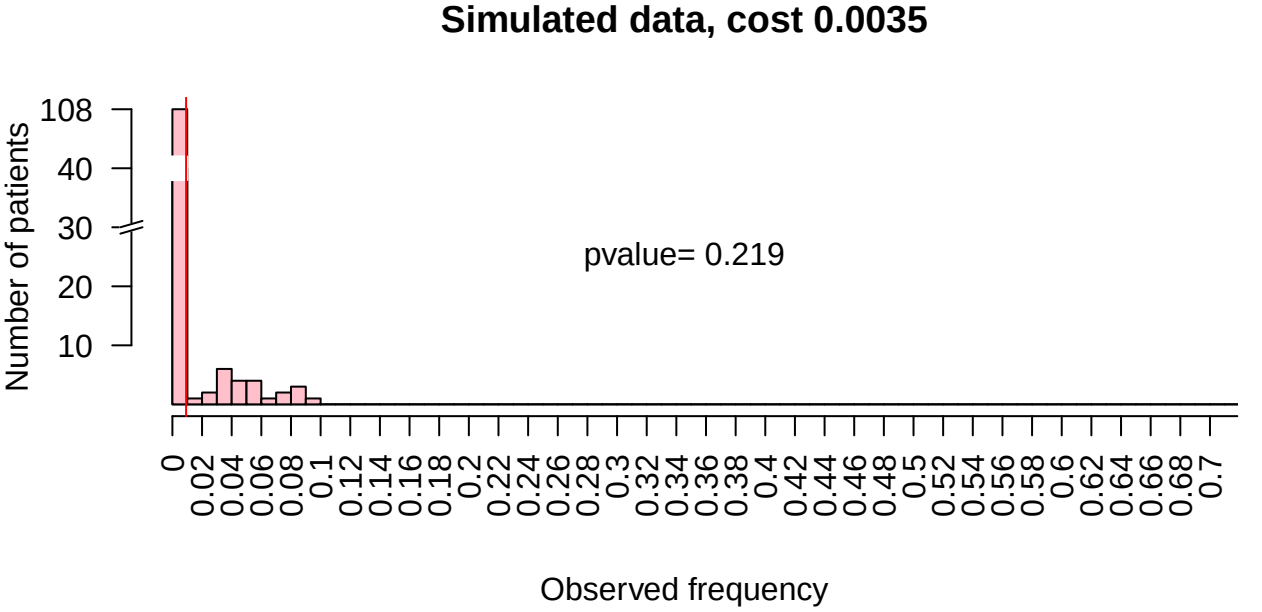

Single−SFS, site 49
Number of patients
153
40
30
20
10
0
Observed frequency

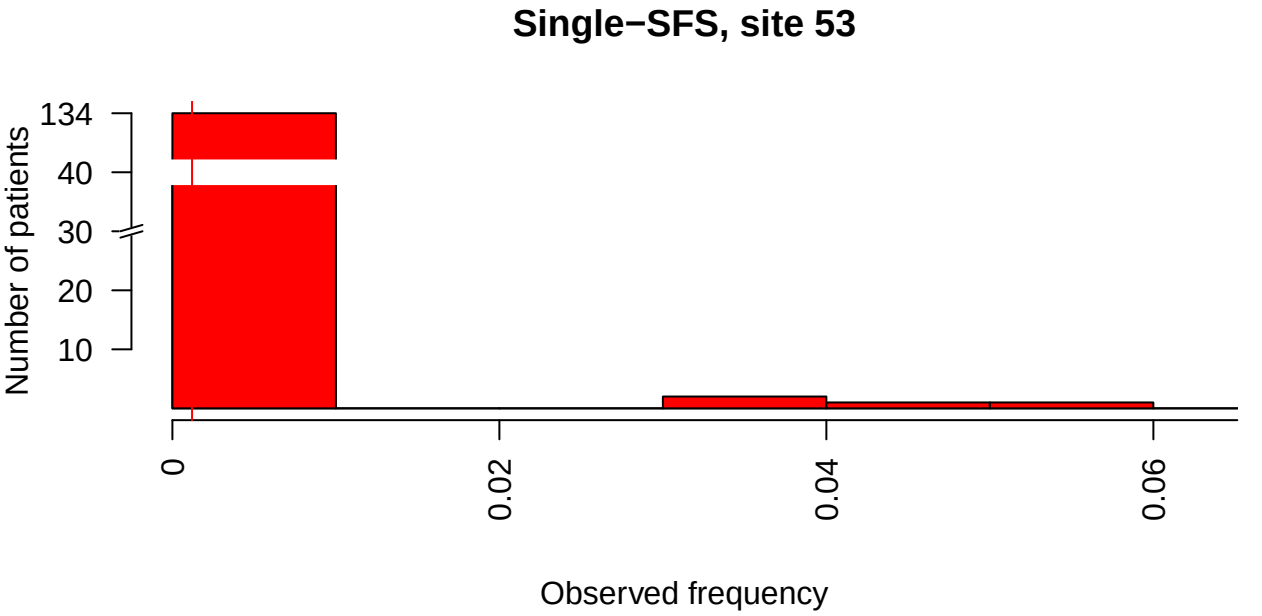

Simulated data, cost 1
Number of patients
153
40
30
20
10
0
pvalue= NaN
Observed frequency

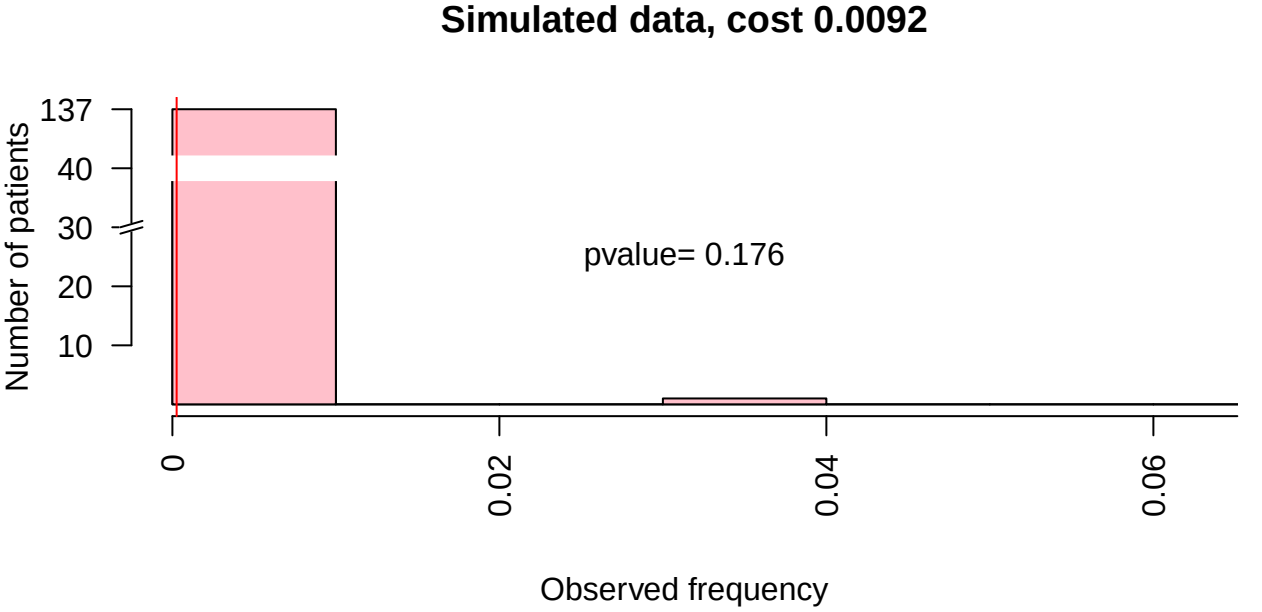

Single−SFS, site 50
Number of patients
148
40
30
20
10
0
0.02
0.04
0.06
0.08
Observed frequency

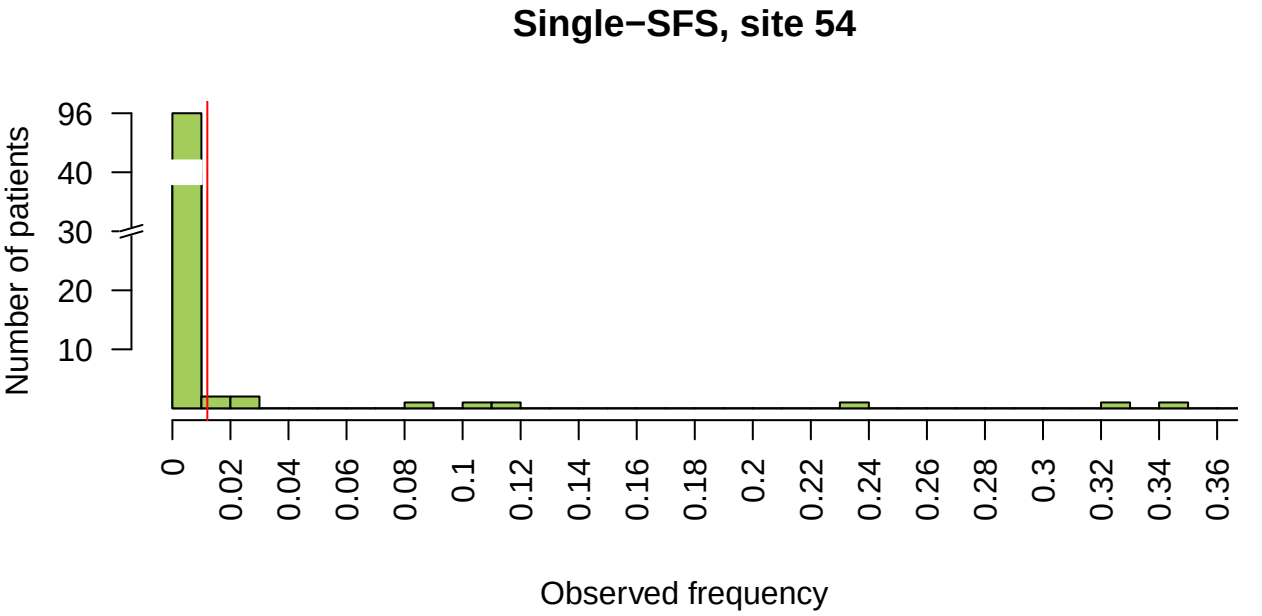

Simulated data, cost 0.0421
Number of patients
149
40
30
20
10
pvalue= 0.701
0
0.02
0.04
0.06
0.08
Observed frequency

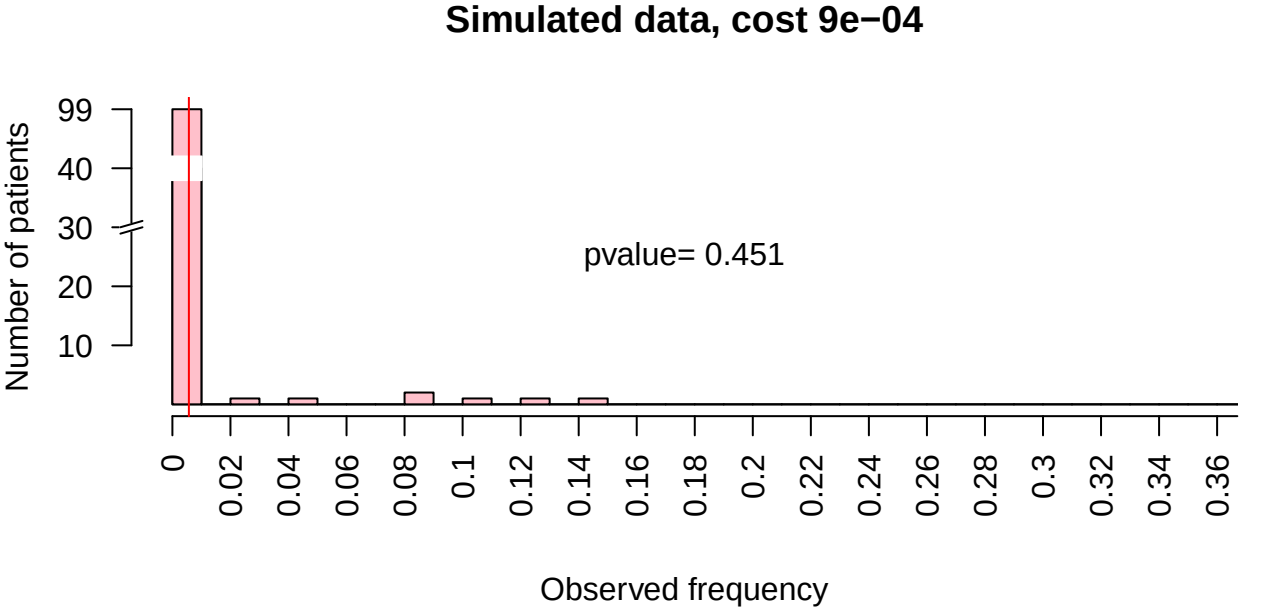

Single−SFS, site 51
Number of patients
116
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
0.24
0.26
0.28
0.3
0.32
0.34
0.36
0.38
0.4
0.42
0.44
0.46
0.48
0.5
0.52
0.54
0.56
0.58
0.6
0.62
0.64
0.66
0.68
0.7
Observed frequency

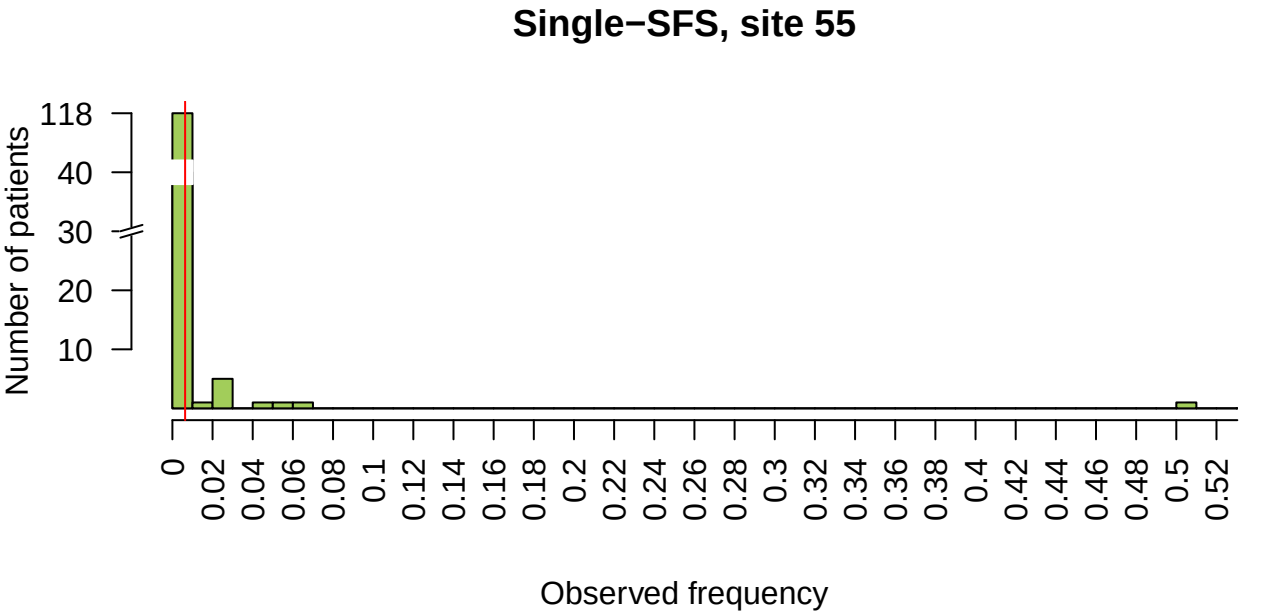

Simulated data, cost 0.0035
Number of patients
108
40
30
20
10
pvalue= 0.219
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
0.24
0.26
0.28
0.3
0.32
0.34
0.36
0.38
0.4
0.42
0.44
0.46
0.48
0.5
0.52
0.54
0.56
0.58
0.6
0.62
0.64
0.66
0.68
0.7
Observed frequency

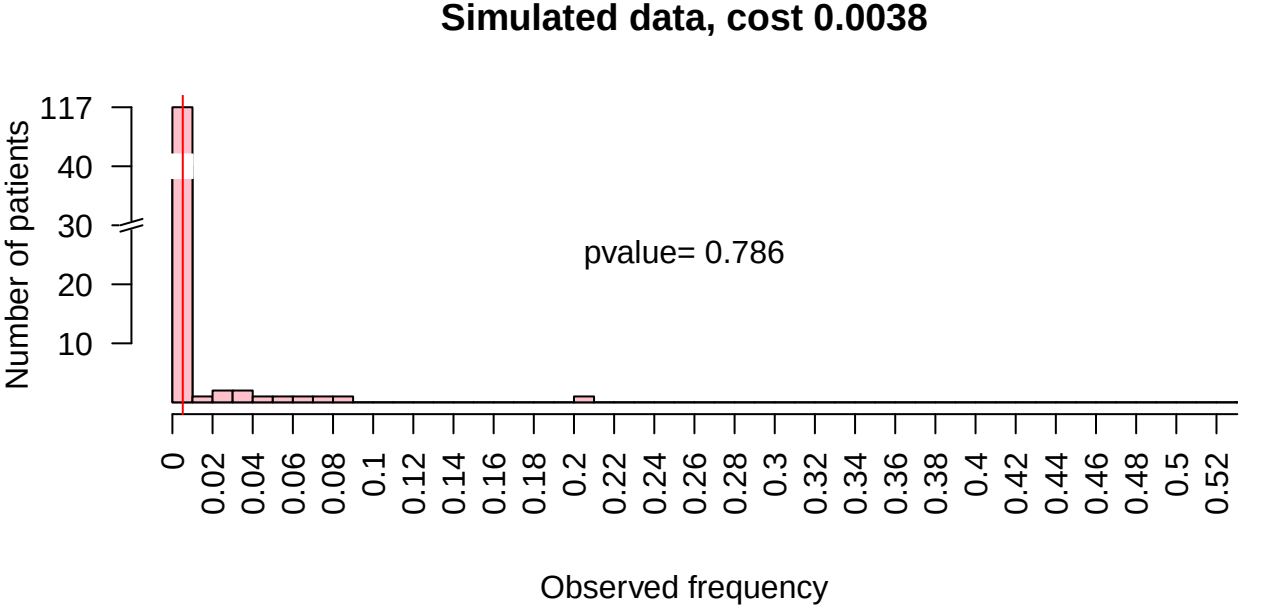

Single−SFS, site 53
Number of patients
134
40
30
20
10
0
0.02
0.04
0.06
Observed frequency

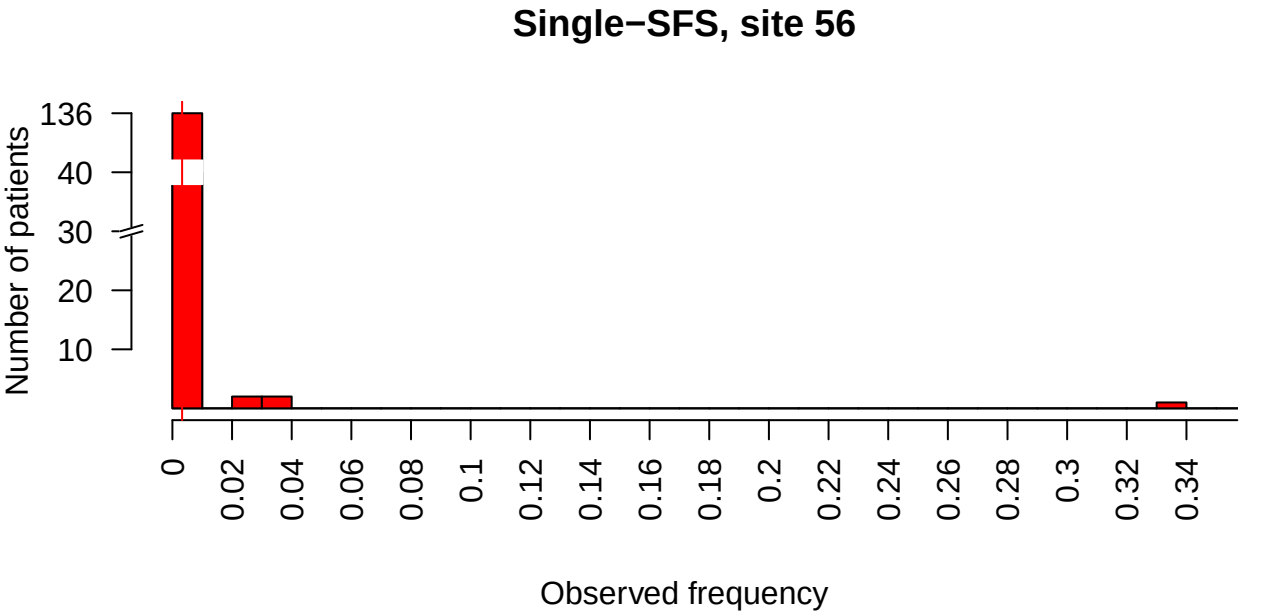

Simulated data, cost 0.0092
Number of patients
137
40
30
20
10
pvalue= 0.176
0
0.02
0.04
0.06
Observed frequency

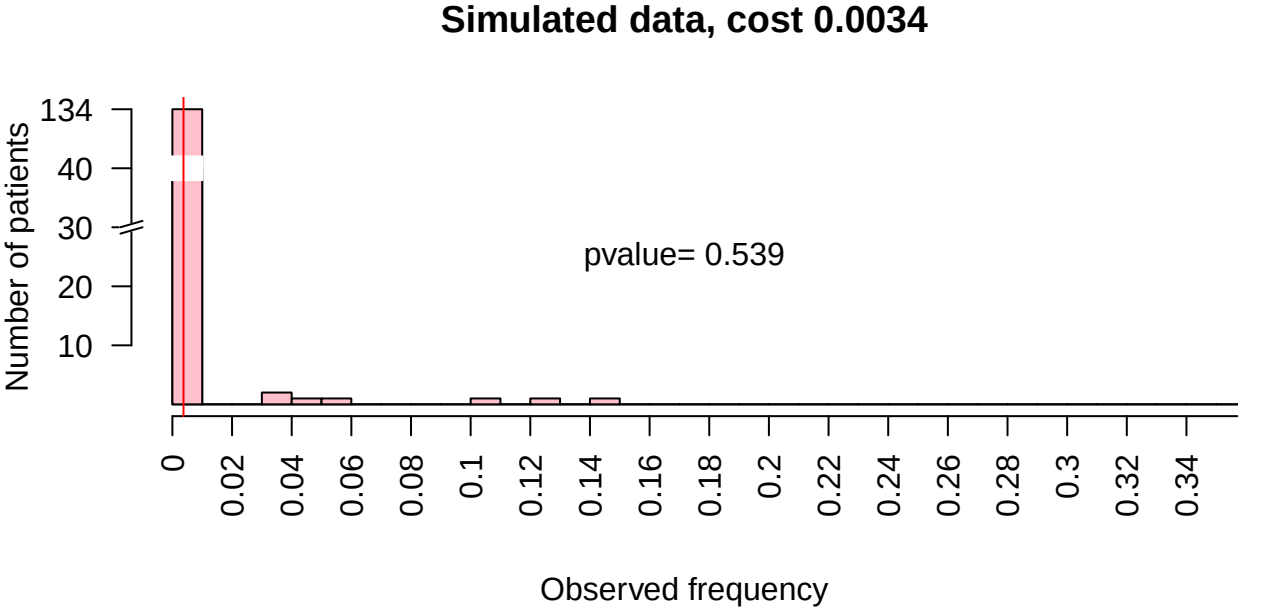

Single−SFS, site 54
Number of patients
96
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
0.24
0.26
0.28
0.3
0.32
0.34
0.36
Observed frequency

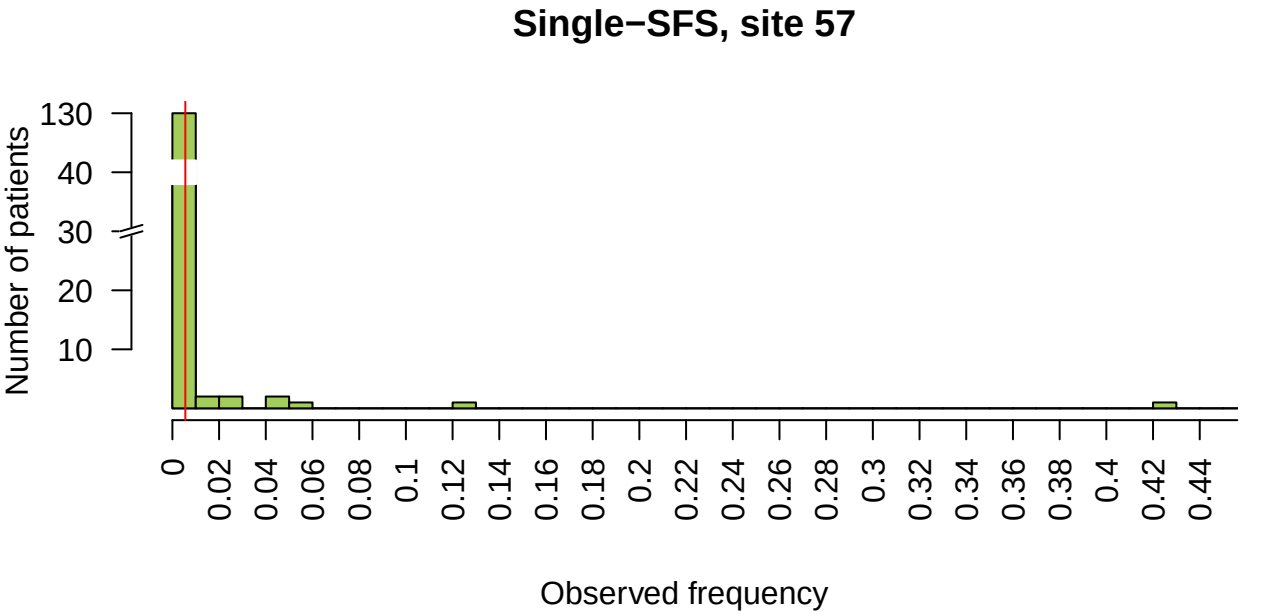

Simulated data, cost 9e−04
Number of patients
99
40
30
20
10
pvalue= 0.451
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
0.24
0.26
0.28
0.3
0.32
0.34
0.36
Observed frequency

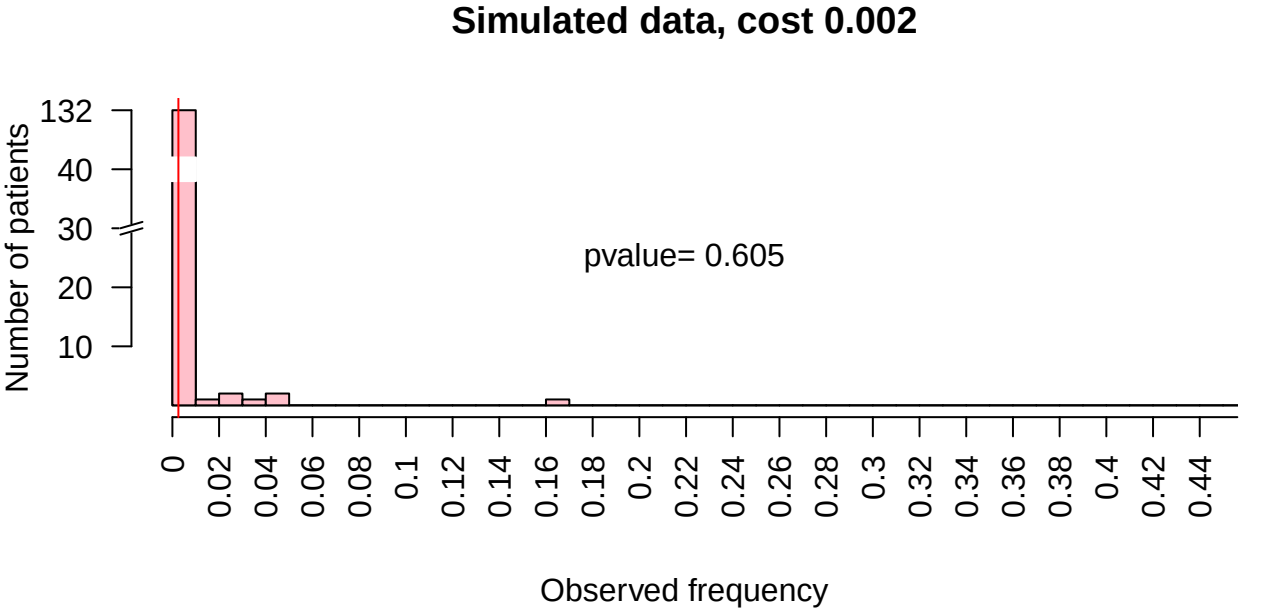

Single−SFS, site 55
Number of patients
118
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
0.24
0.26
0.28
0.3
0.32
0.34
0.36
0.38
0.4
0.42
0.44
0.46
0.48
0.5
0.52
Observed frequency

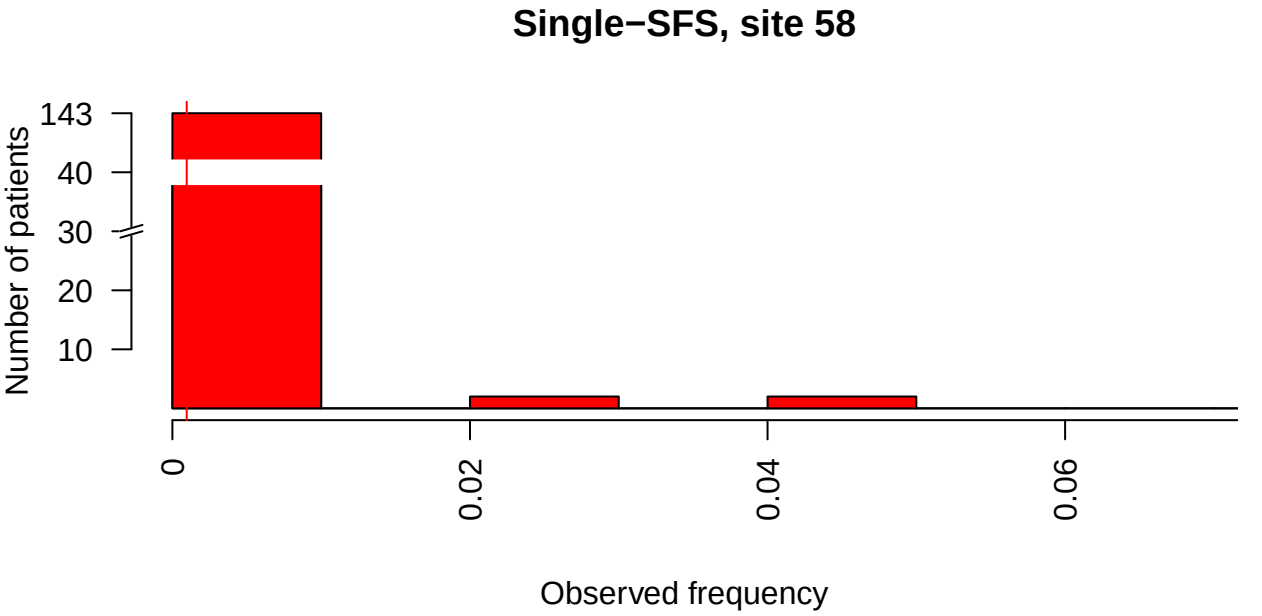

Simulated data, cost 0.0038
Number of patients
117
40
30
20
10
pvalue= 0.786
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
0.24
0.26
0.28
0.3
0.32
0.34
0.36
0.38
0.4
0.42
0.44
0.46
0.48
0.5
0.52
Observed frequency

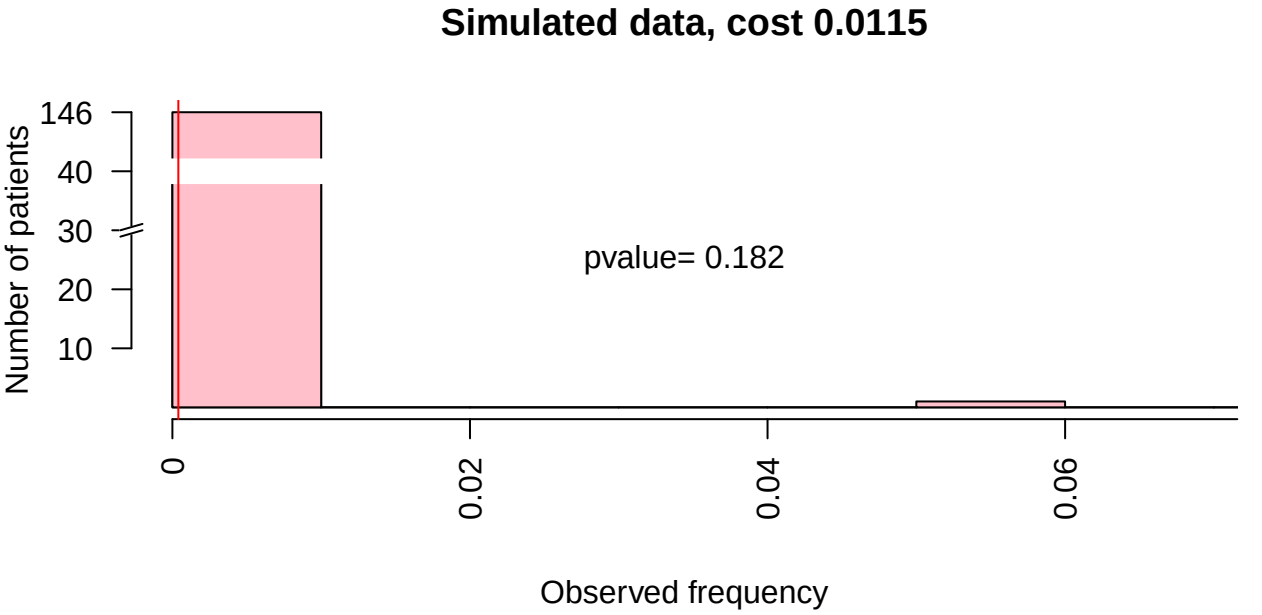

Single−SFS, site 56
Number of patients
136
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
0.24
0.26
0.28
0.3
0.32
0.34
Observed frequency

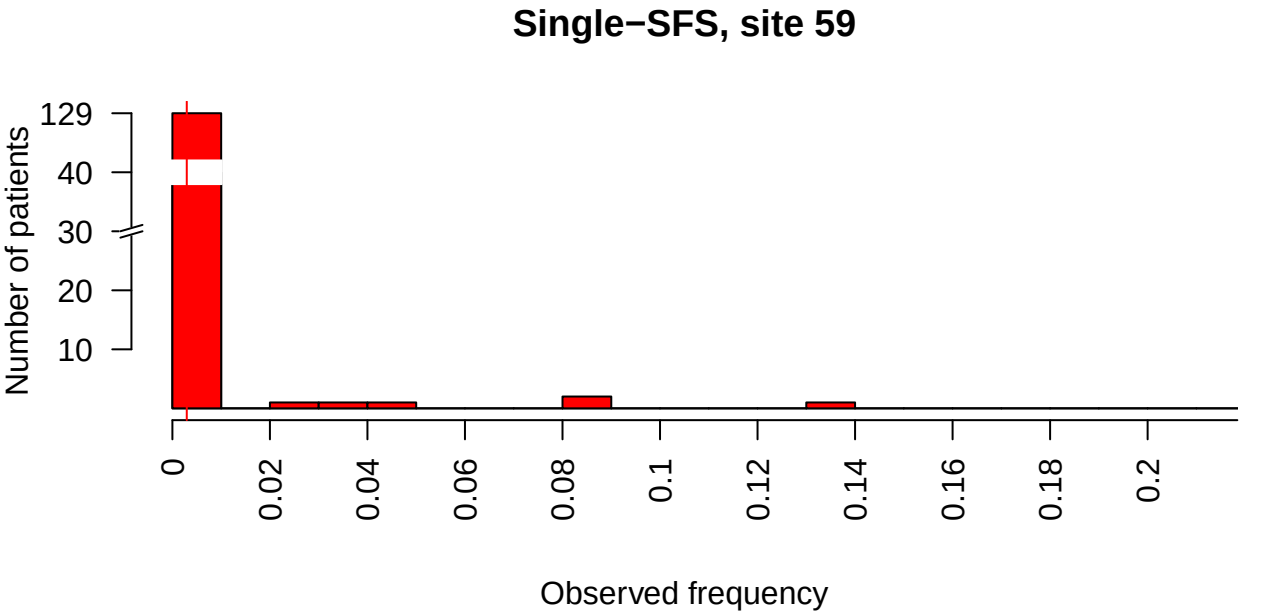

Simulated data, cost 0.0034
Number of patients
134
40
30
20
10
pvalue= 0.539
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
0.24
0.26
0.28
0.3
0.32
0.34
Observed frequency

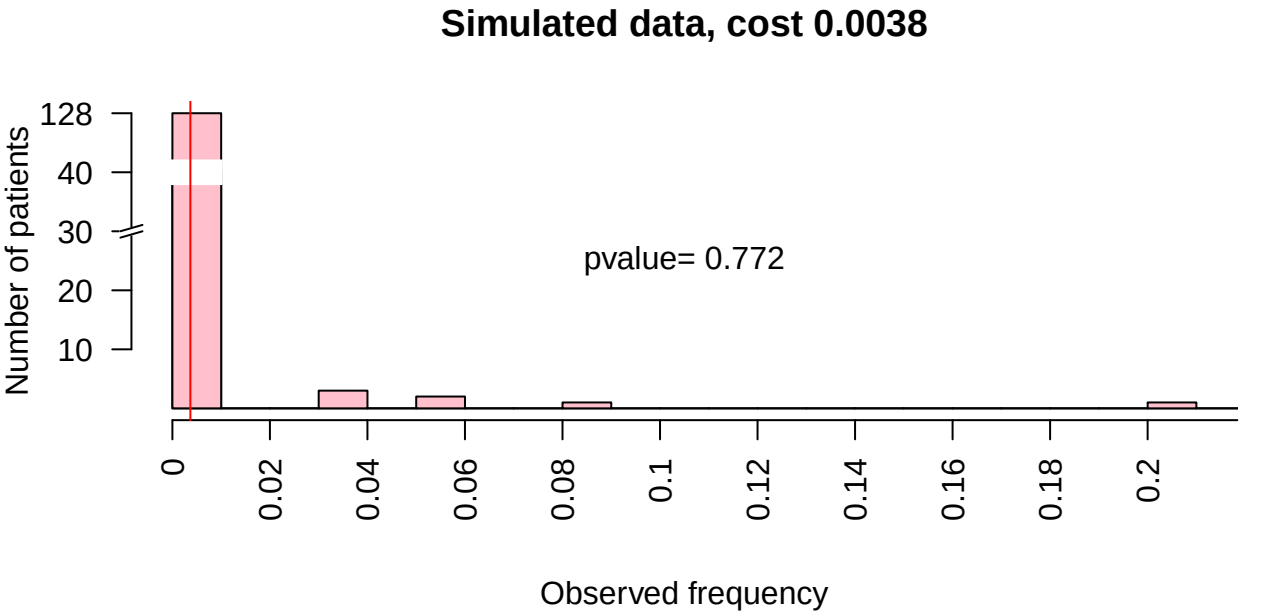

Single−SFS, site 57
Number of patients
130
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
0.24
0.26
0.28
0.3
0.32
0.34
0.36
0.38
0.4
0.42
0.44
Observed frequency

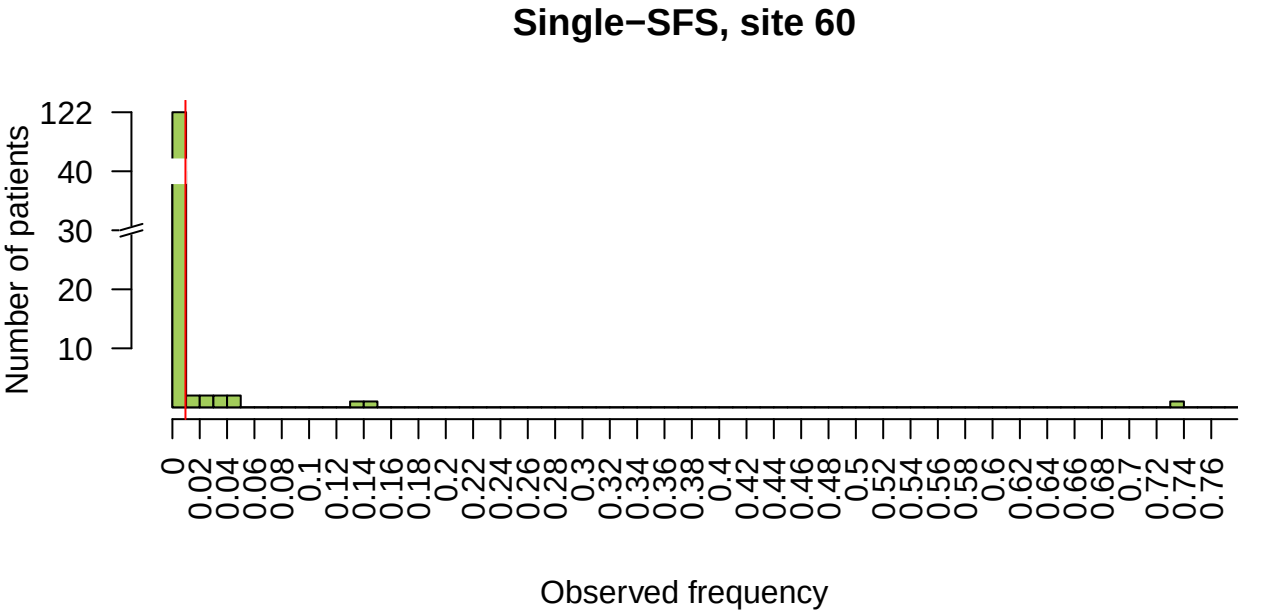

Simulated data, cost 0.002
Number of patients
132
40
30
20
10
pvalue= 0.605
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
0.24
0.26
0.28
0.3
0.32
0.34
0.36
0.38
0.4
0.42
0.44
Observed frequency

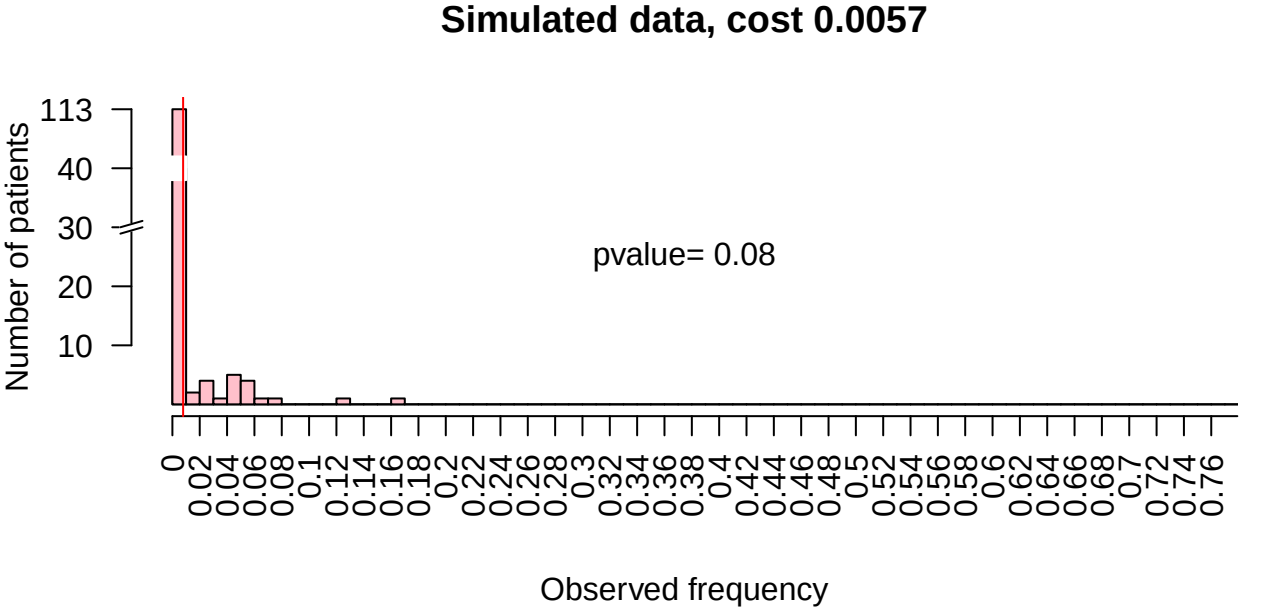

Single−SFS, site 58
Number of patients
143
40
30
20
10
0
0.02
0.04
0.06
Observed frequency

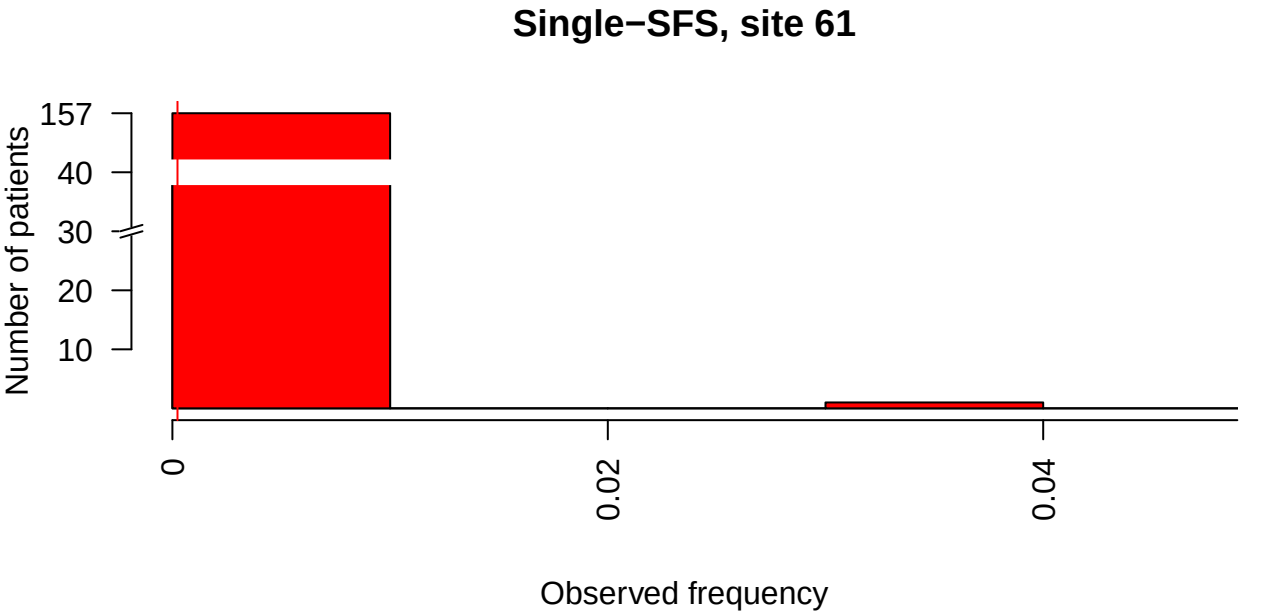

Simulated data, cost 0.0115
Number of patients
146
40
30
20
10
pvalue= 0.182
0
0.02
0.04
0.06
Observed frequency

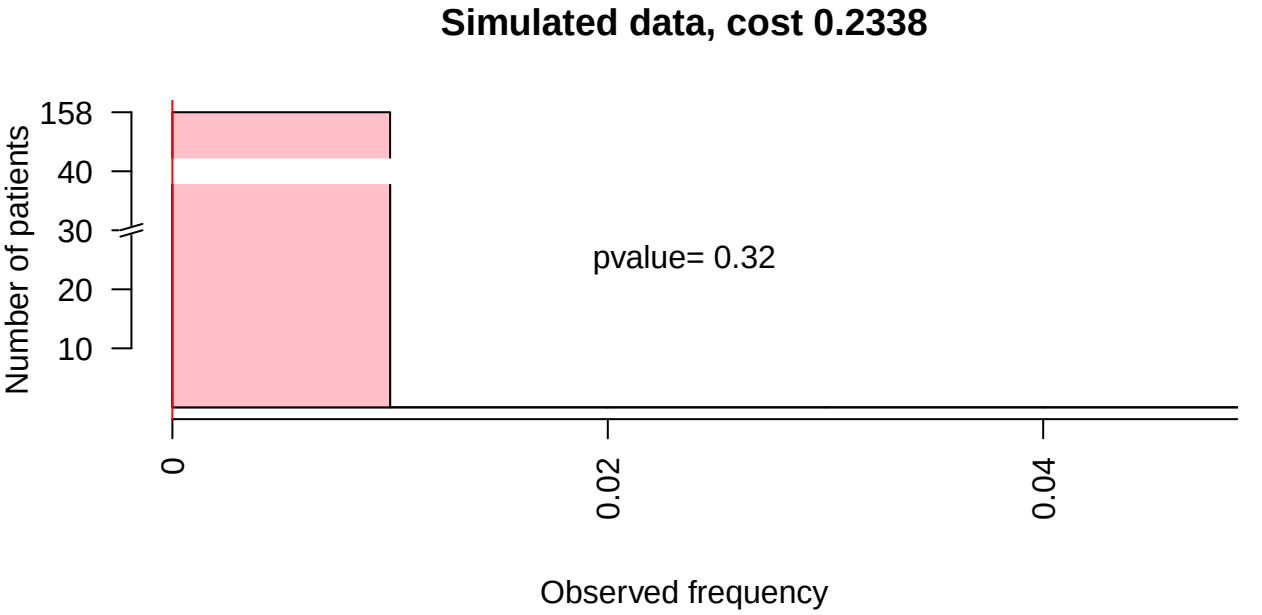

Single−SFS, site 59
Number of patients
129
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
Observed frequency

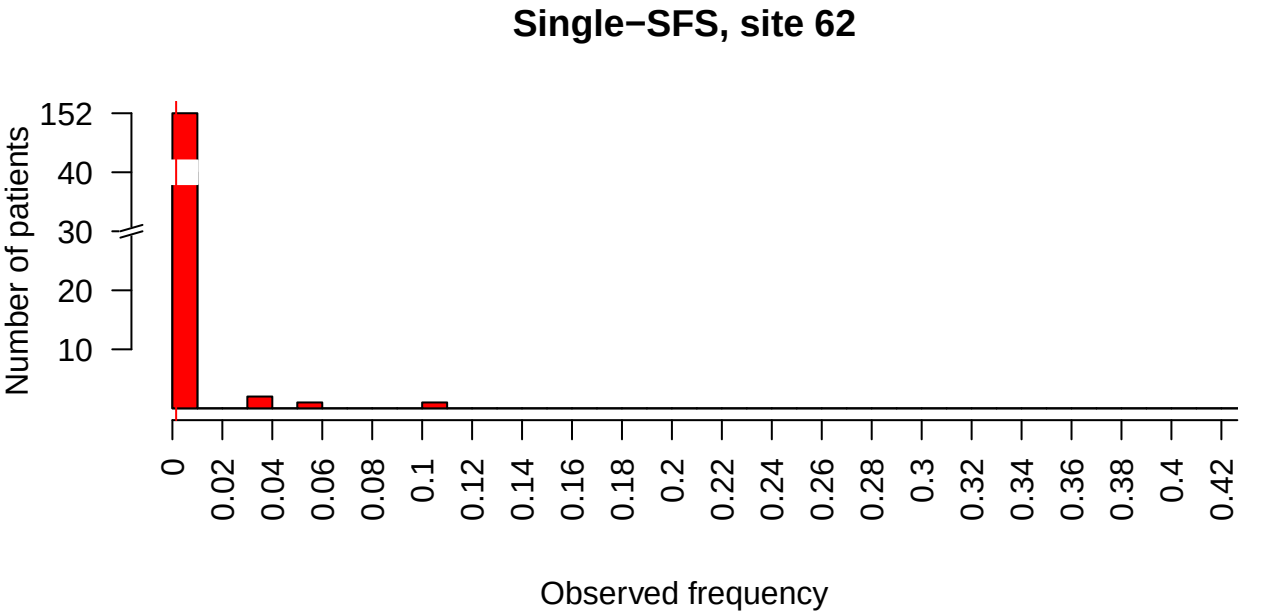

Simulated data, cost 0.0038
Number of patients
128
40
30
20
10
pvalue= 0.772
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
Observed frequency

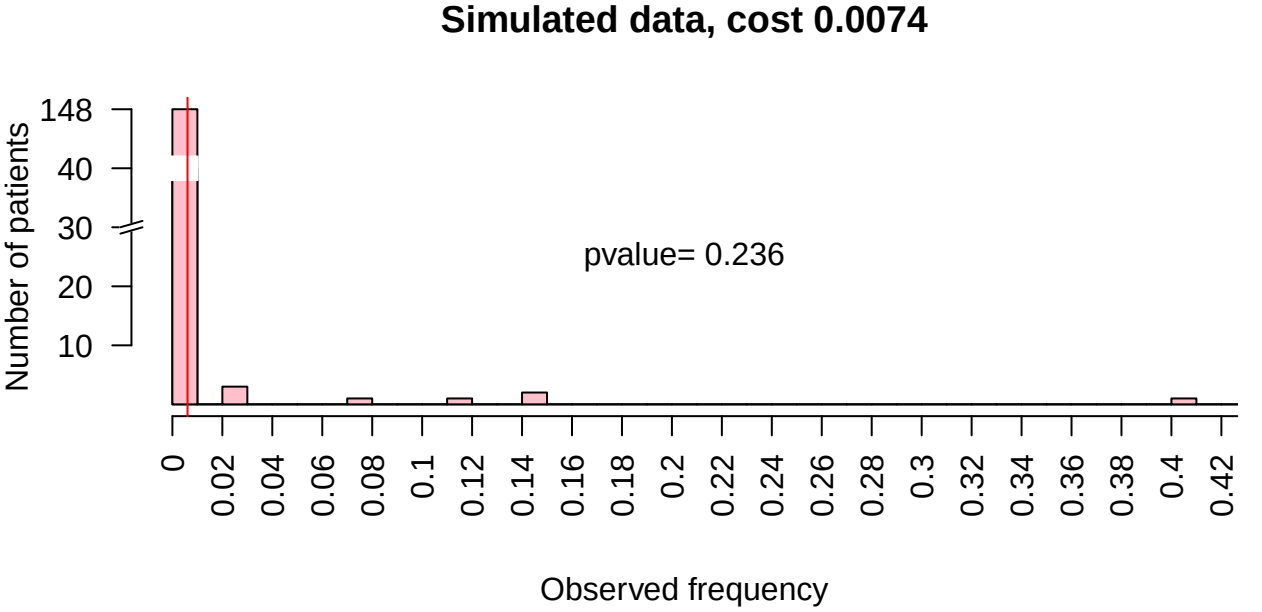

Single−SFS, site 60
Number of patients
122
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
0.24
0.26
0.28
0.3
0.32
0.34
0.36
0.38
0.4
0.42
0.44
0.46
0.48
0.5
0.52
0.54
0.56
0.58
0.6
0.62
0.64
0.66
0.68
0.7
0.72
0.74
0.76
Observed frequency

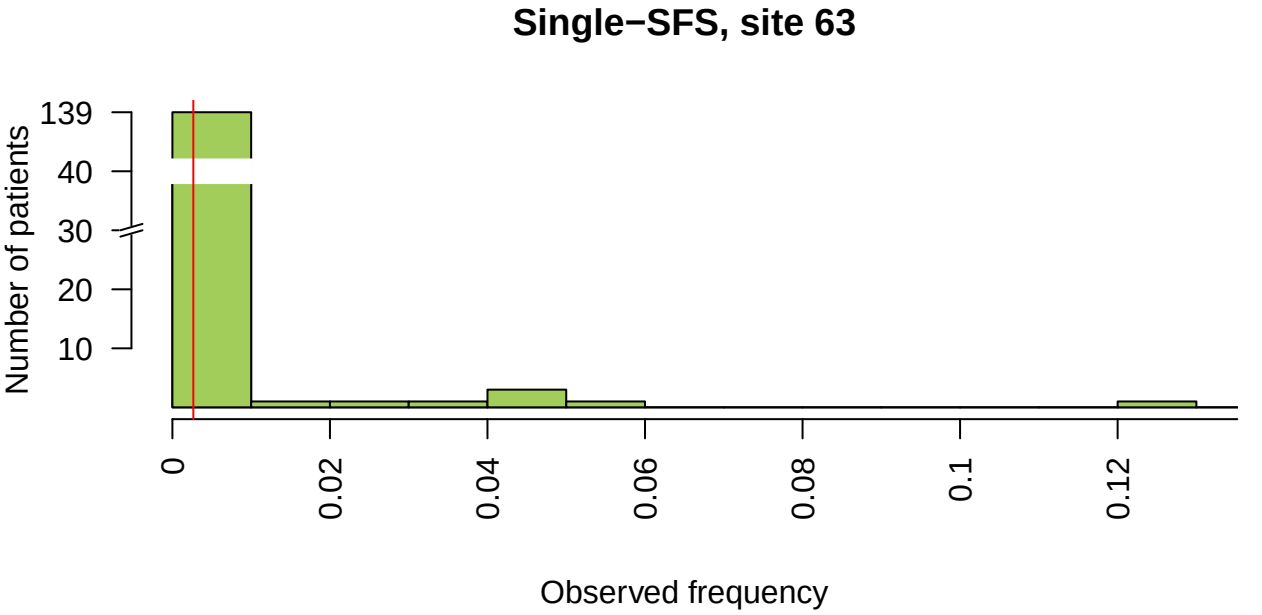

Simulated data, cost 0.0057
Number of patients
113
40
30
20
10
pvalue= 0.08
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
0.24
0.26
0.28
0.3
0.32
0.34
0.36
0.38
0.4
0.42
0.44
0.46
0.48
0.5
0.52
0.54
0.56
0.58
0.6
0.62
0.64
0.66
0.68
0.7
0.72
0.74
0.76
Observed frequency

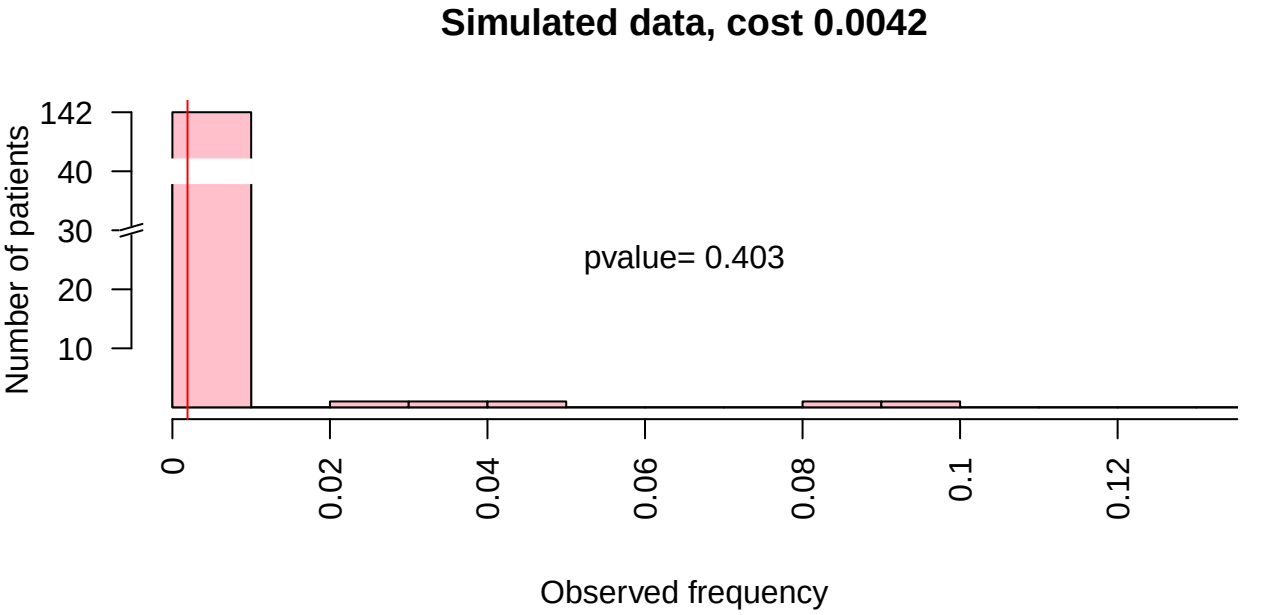

Single−SFS, site 61
Number of patients
157
40
30
20
10
0
0.02
0.04
Observed frequency

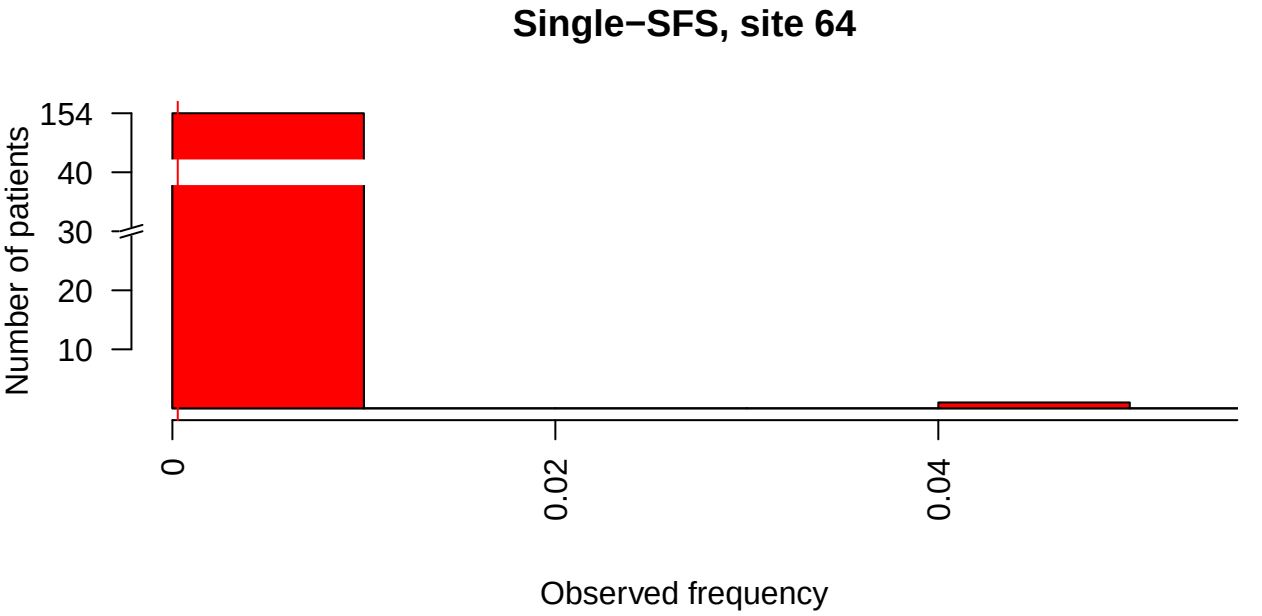

Simulated data, cost 0.2338
Number of patients
158
40
30
20
10
pvalue= 0.32
0
0.02
0.04
Observed frequency

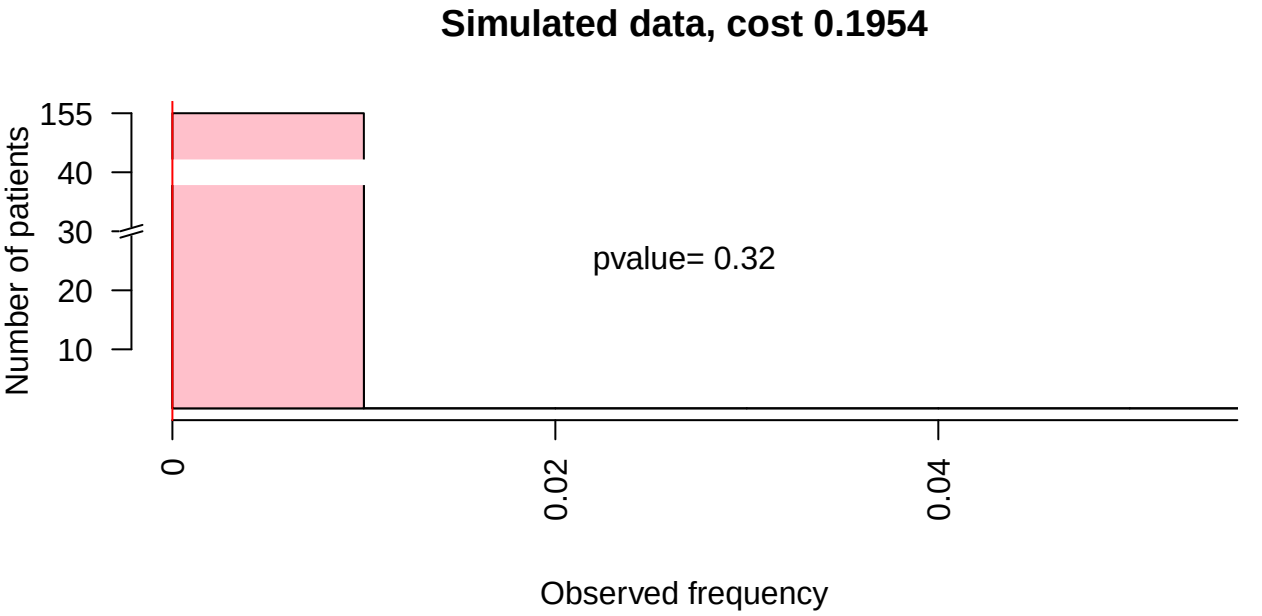

Single−SFS, site 62
Number of patients
152
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
0.24
0.26
0.28
0.3
0.32
0.34
0.36
0.38
0.4
0.42
Observed frequency

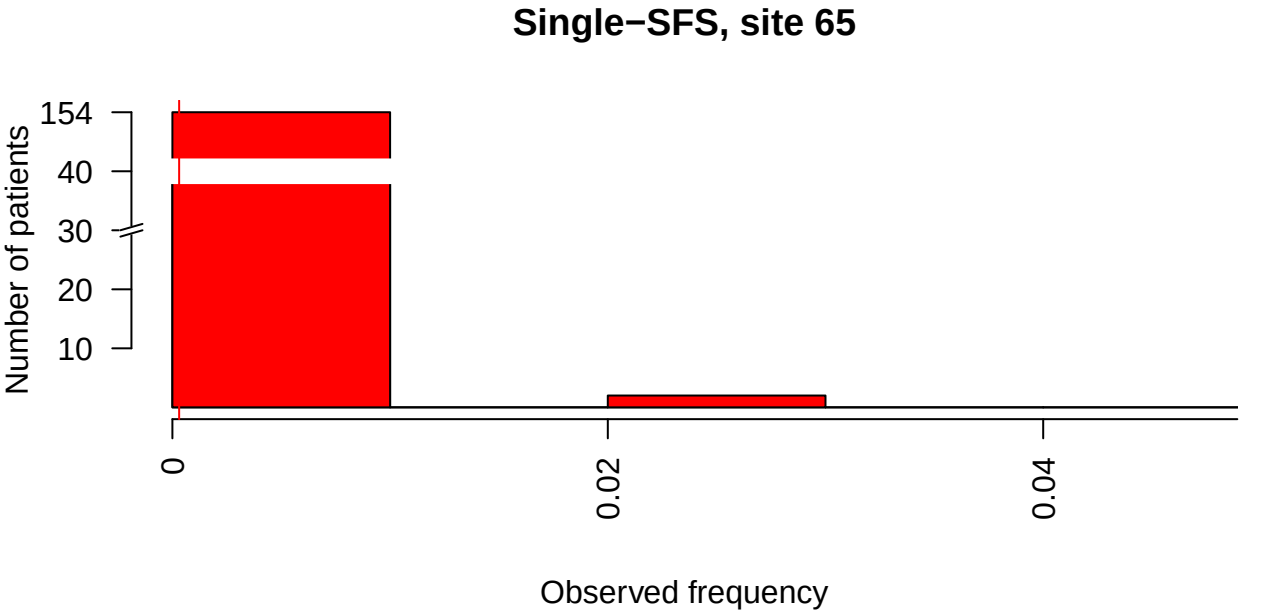

Simulated data, cost 0.0074
Number of patients
148
40
30
20
10
pvalue= 0.236
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
0.24
0.26
0.28
0.3
0.32
0.34
0.36
0.38
0.4
0.42
Observed frequency

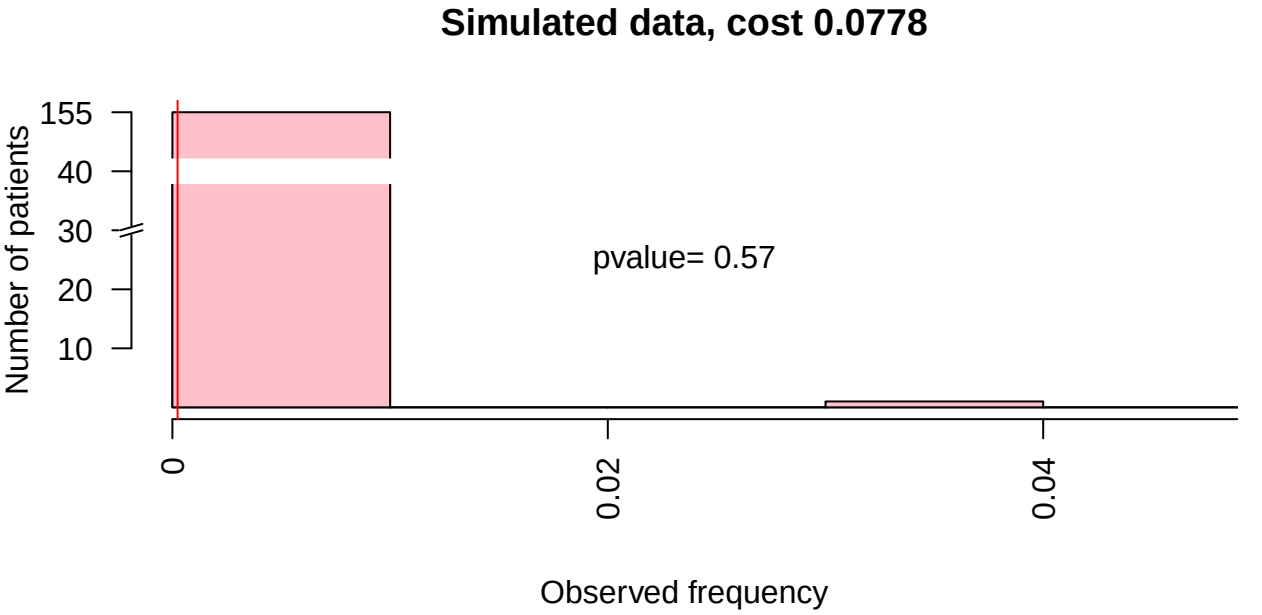

Single−SFS, site 63
Number of patients
139
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
Observed frequency

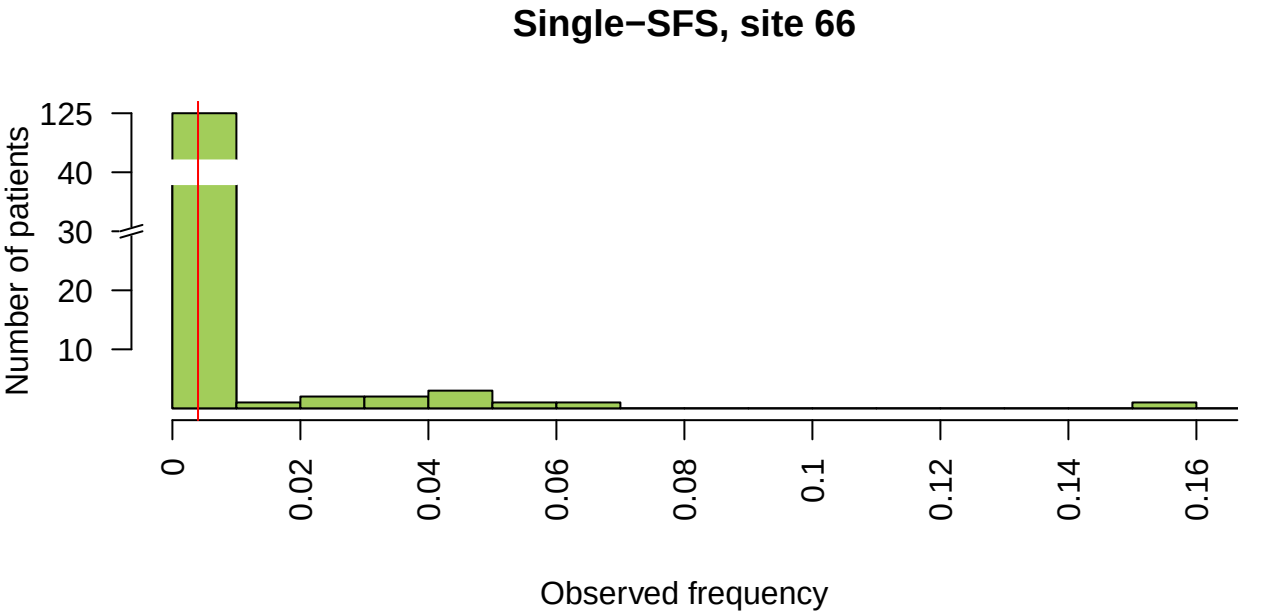

Simulated data, cost 0.0042
Number of patients
142
40
30
20
10
pvalue= 0.403
0
0.02
0.04
0.06
0.08
0.1
0.12
Observed frequency

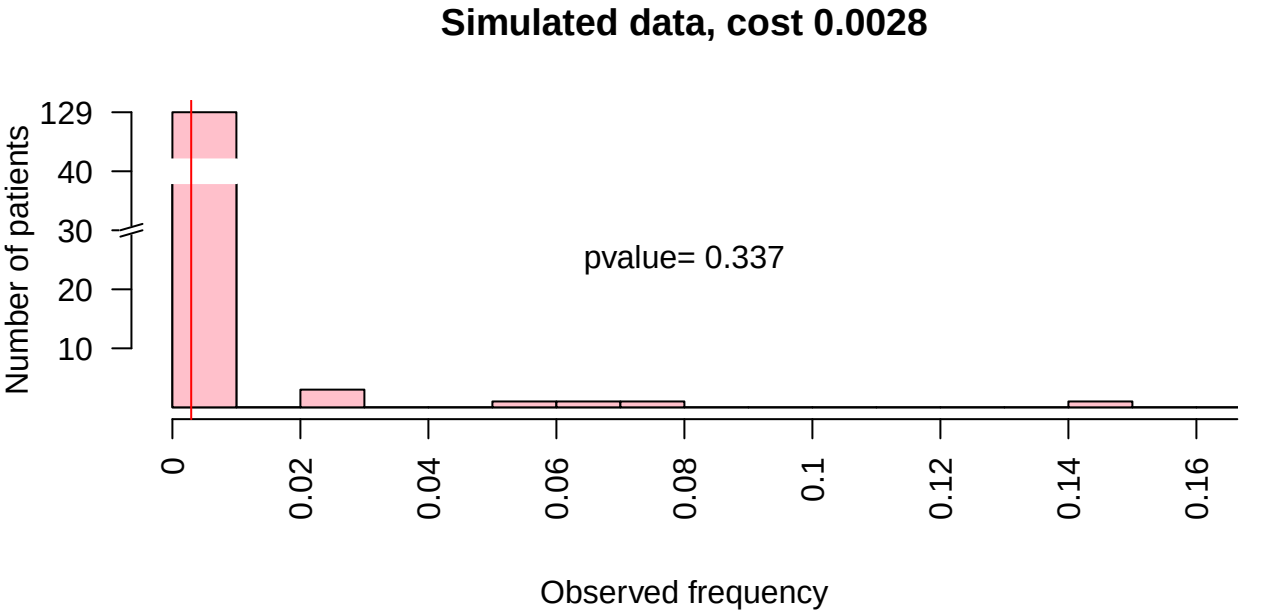

Single−SFS, site 64
Number of patients
154
40
30
20
10
0
0.02
0.04
Observed frequency

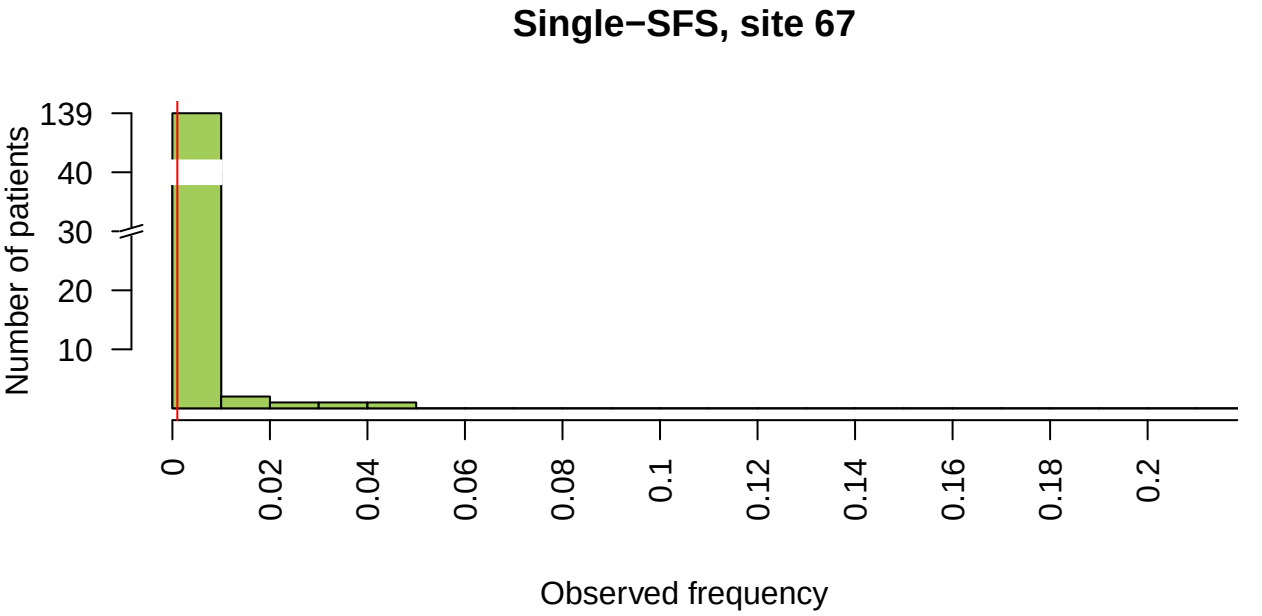

Simulated data, cost 0.1954
Number of patients
155
40
30
20
10
pvalue= 0.32
0
0.02
0.04
Observed frequency

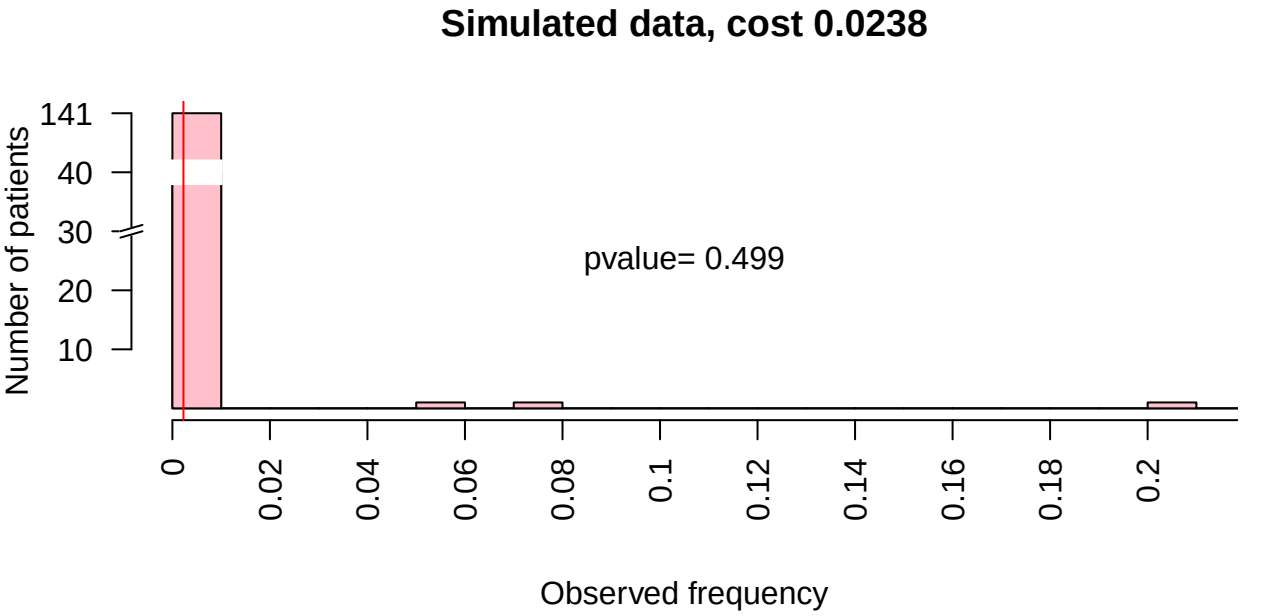

Single−SFS, site 65
Number of patients
154
40
30
20
10
0
0.02
0.04
Observed frequency

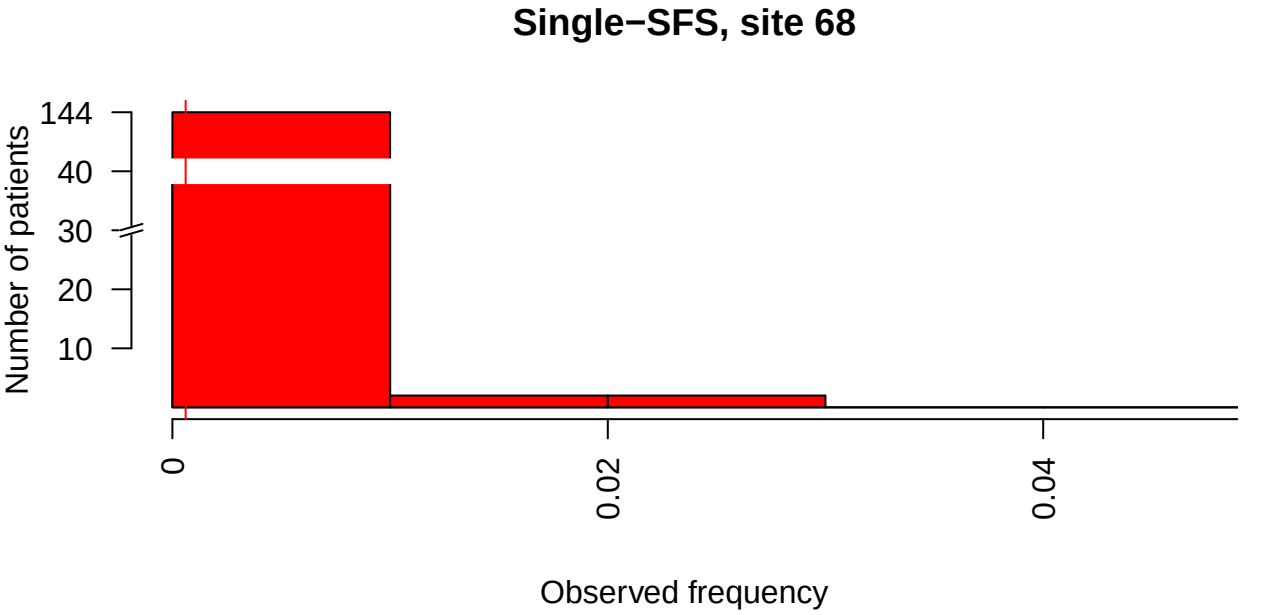

Simulated data, cost 0.0778
Number of patients
155
40
30
20
10
pvalue= 0.57
0
0.02
0.04
Observed frequency

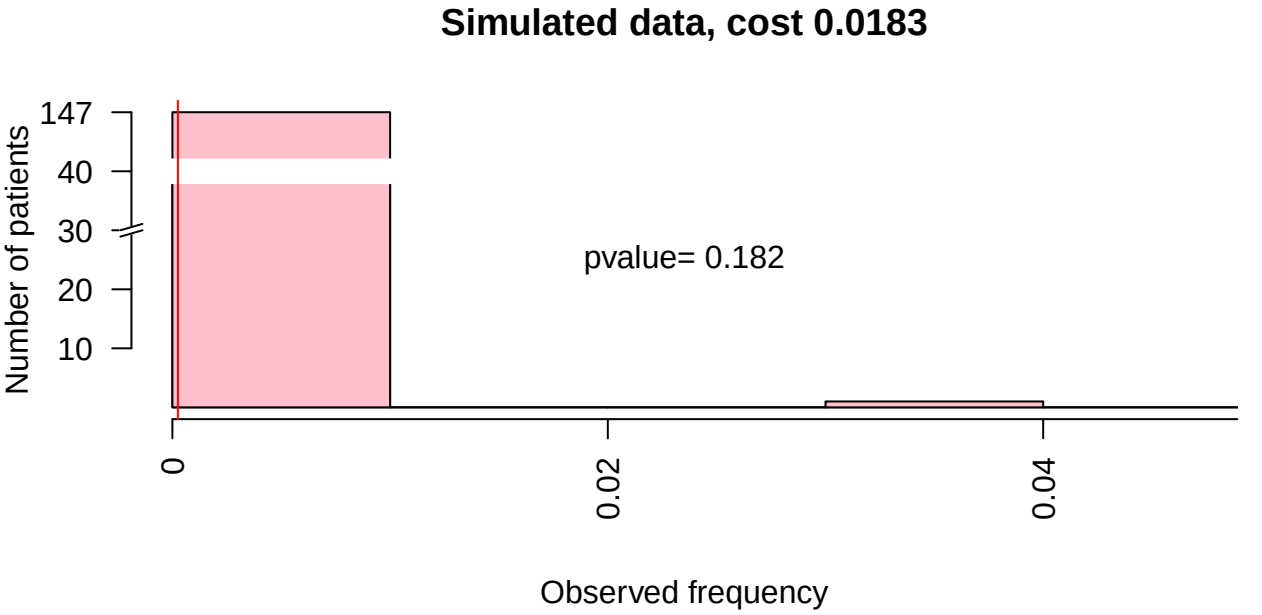

Single−SFS, site 66
Number of patients
125
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
Observed frequency

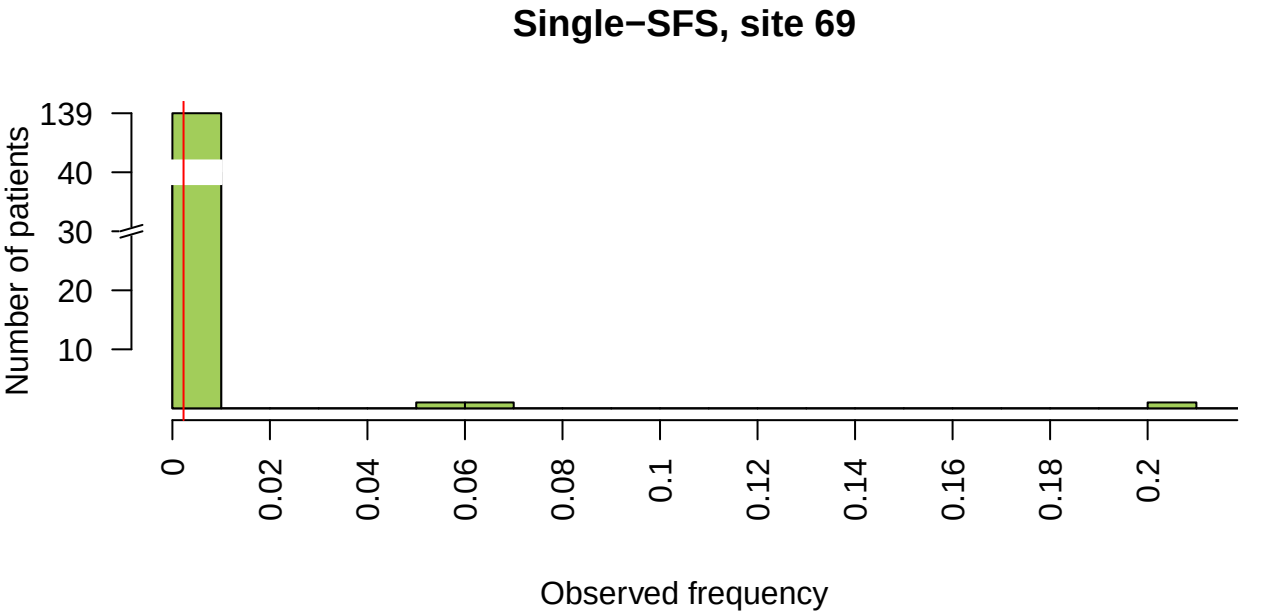

Simulated data, cost 0.0028
Number of patients
129
40
30
20
10
pvalue= 0.337
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
Observed frequency

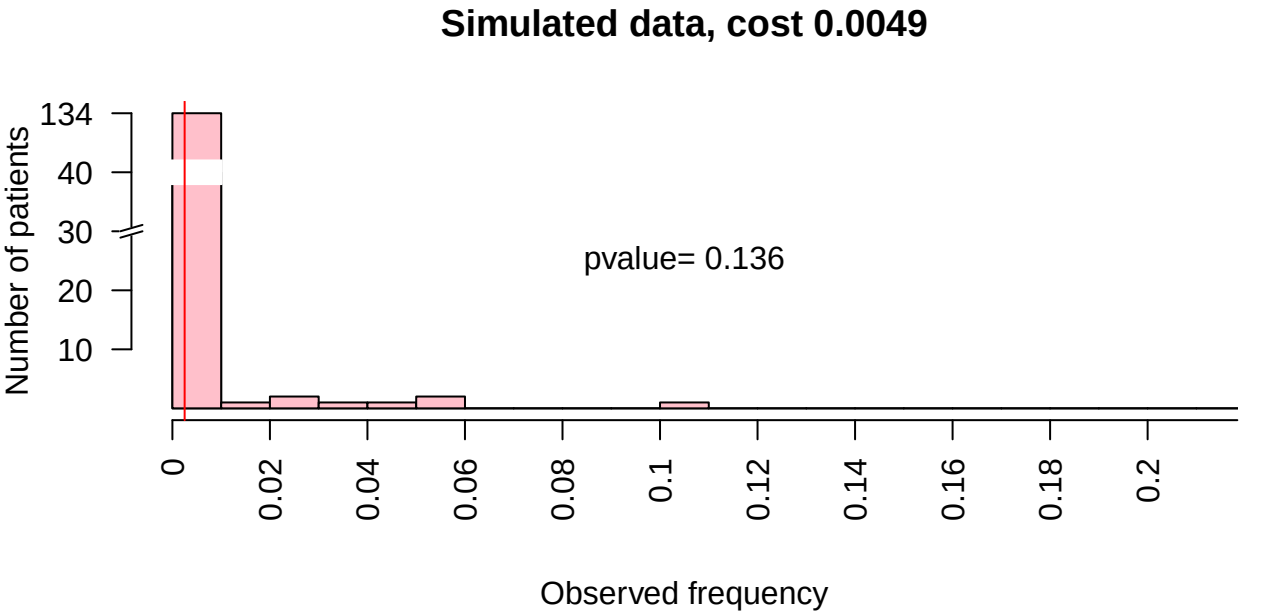

Single−SFS, site 67
Number of patients
139
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
Observed frequency

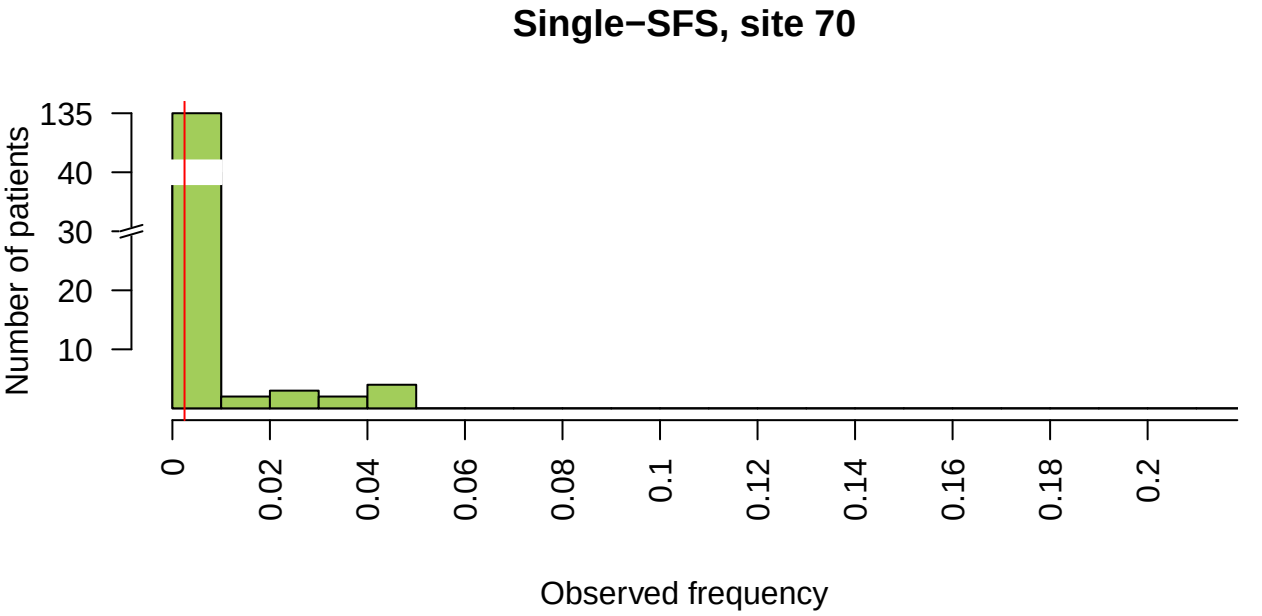

Simulated data, cost 0.0238
Number of patients
141
40
30
20
10
pvalue= 0.499
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
Observed frequency

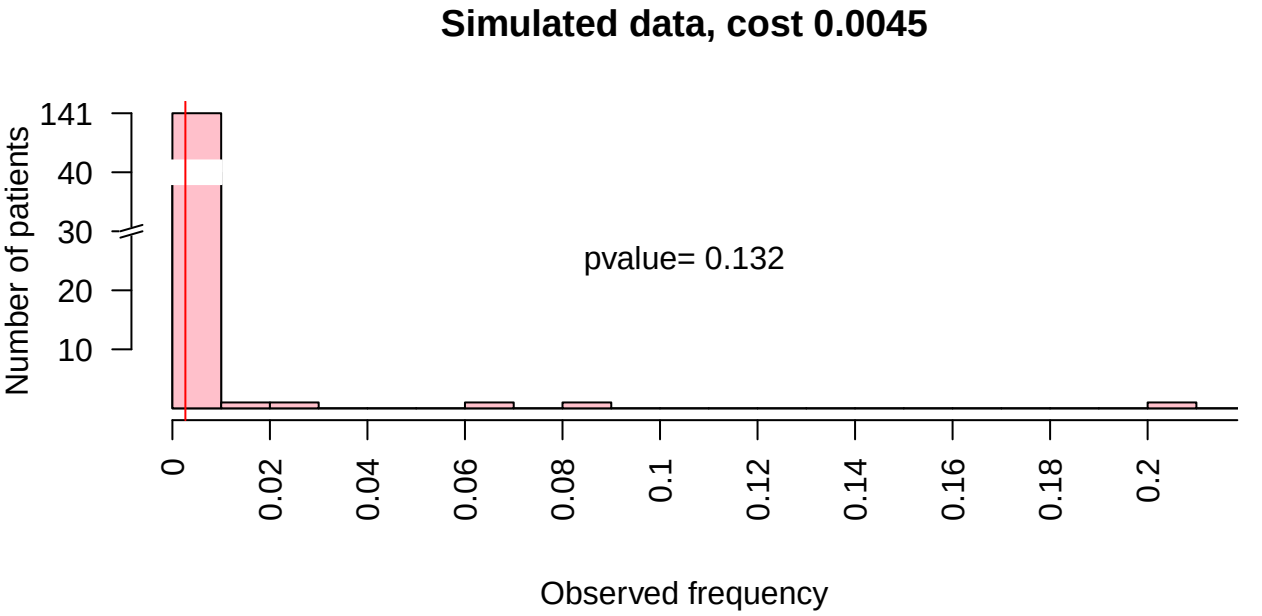

Single−SFS, site 68
Number of patients
144
40
30
20
10
0
0.02
0.04
Observed frequency

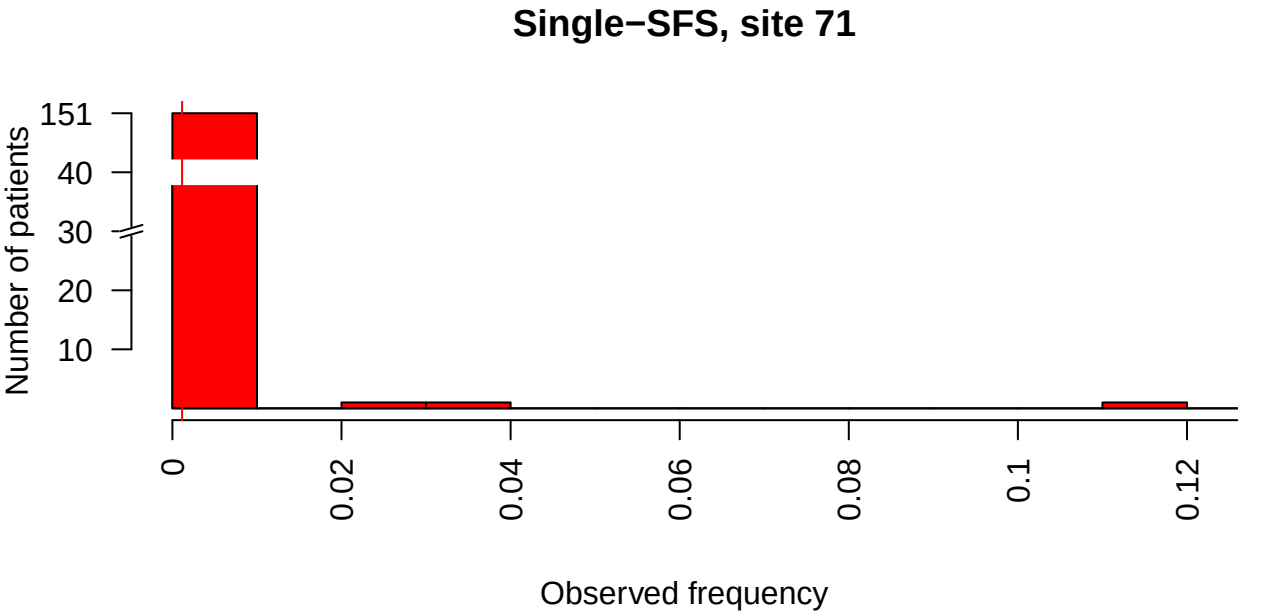

Simulated data, cost 0.0183
Number of patients
147
40
30
20
10
pvalue= 0.182
0
0.02
0.04
Observed frequency

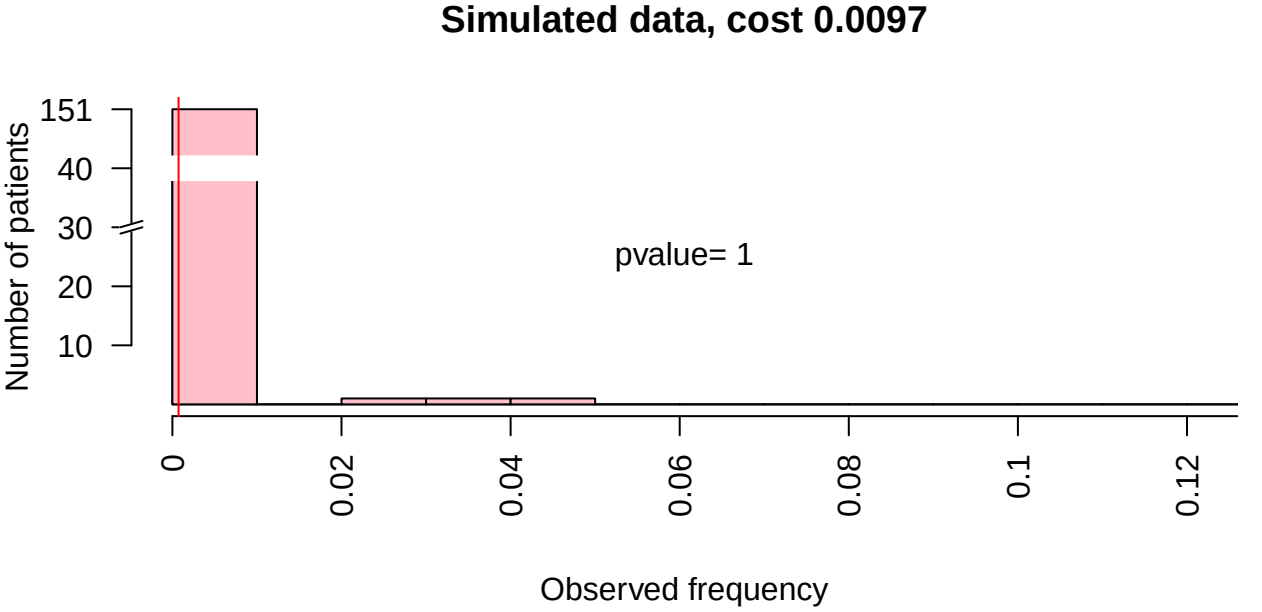

Single−SFS, site 69
Number of patients
139
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
Observed frequency

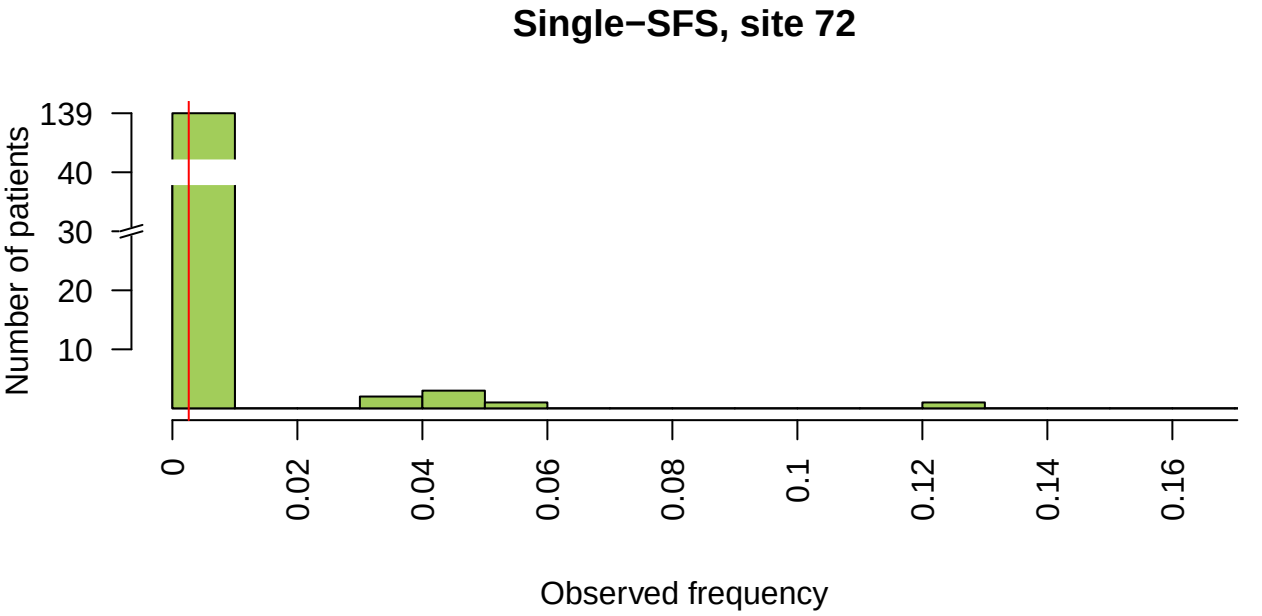

Simulated data, cost 0.0049
Number of patients
134
40
30
20
10
pvalue= 0.136
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
Observed frequency

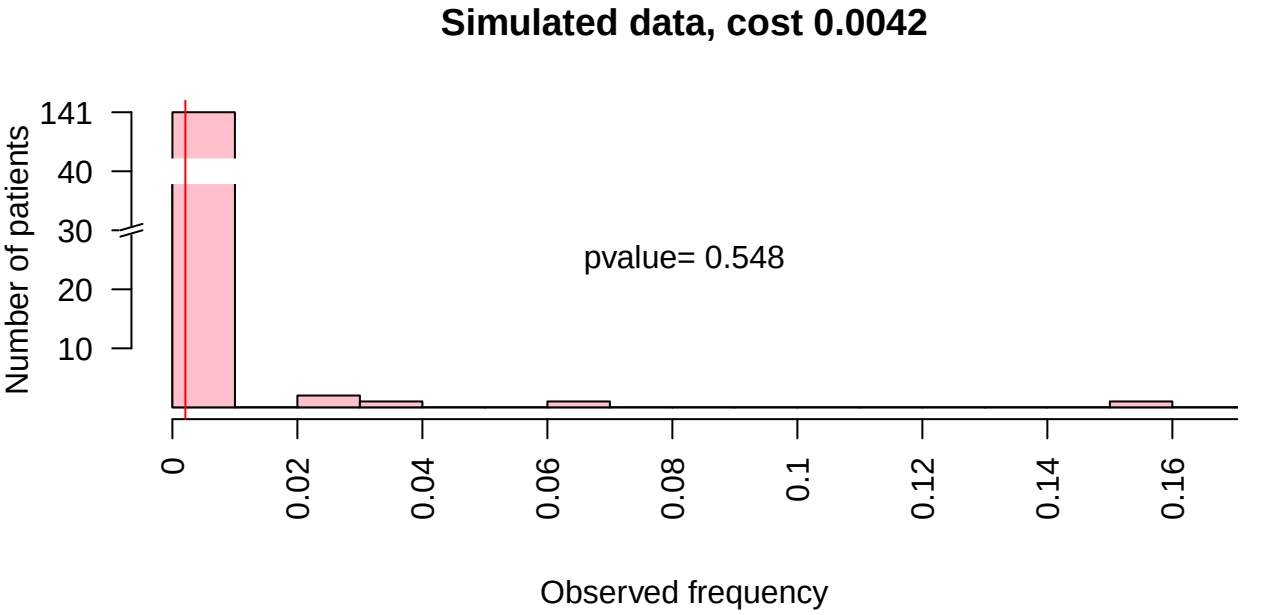

Single−SFS, site 70
Number of patients
135
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
Observed frequency

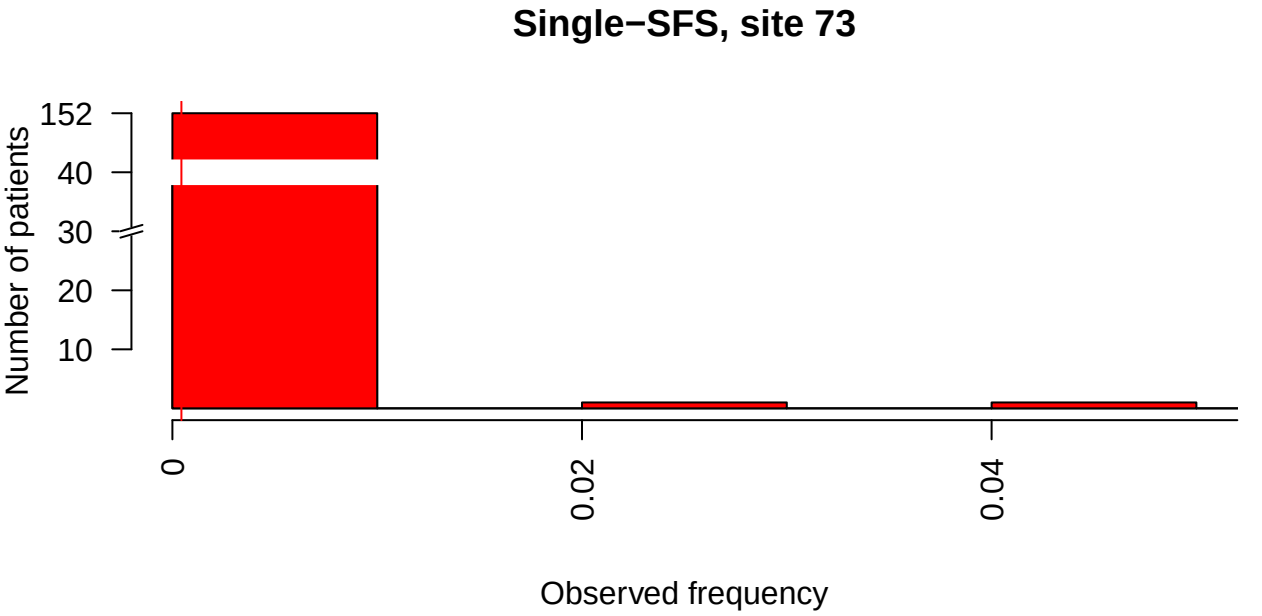

Simulated data, cost 0.0045
Number of patients
141
40
30
20
10
pvalue= 0.132
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
Observed frequency

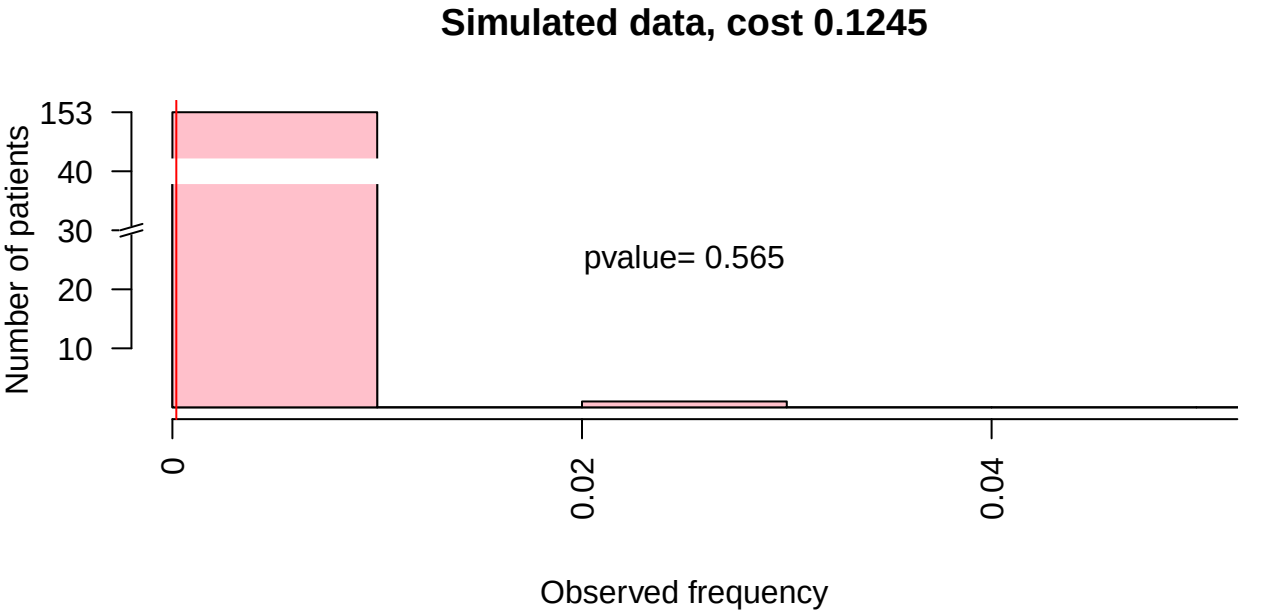

Single−SFS, site 71
Number of patients
151
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
Observed frequency

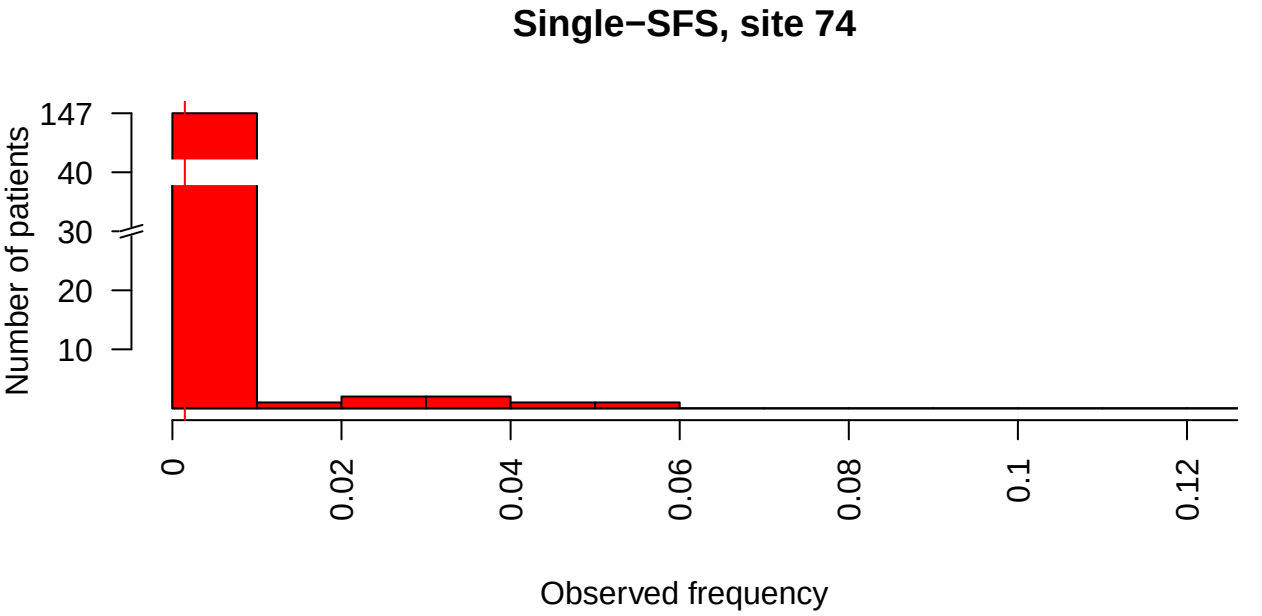

Simulated data, cost 0.0097
Number of patients
151
40
30
20
10
pvalue= 1
0
0.02
0.04
0.06
0.08
0.1
0.12
Observed frequency

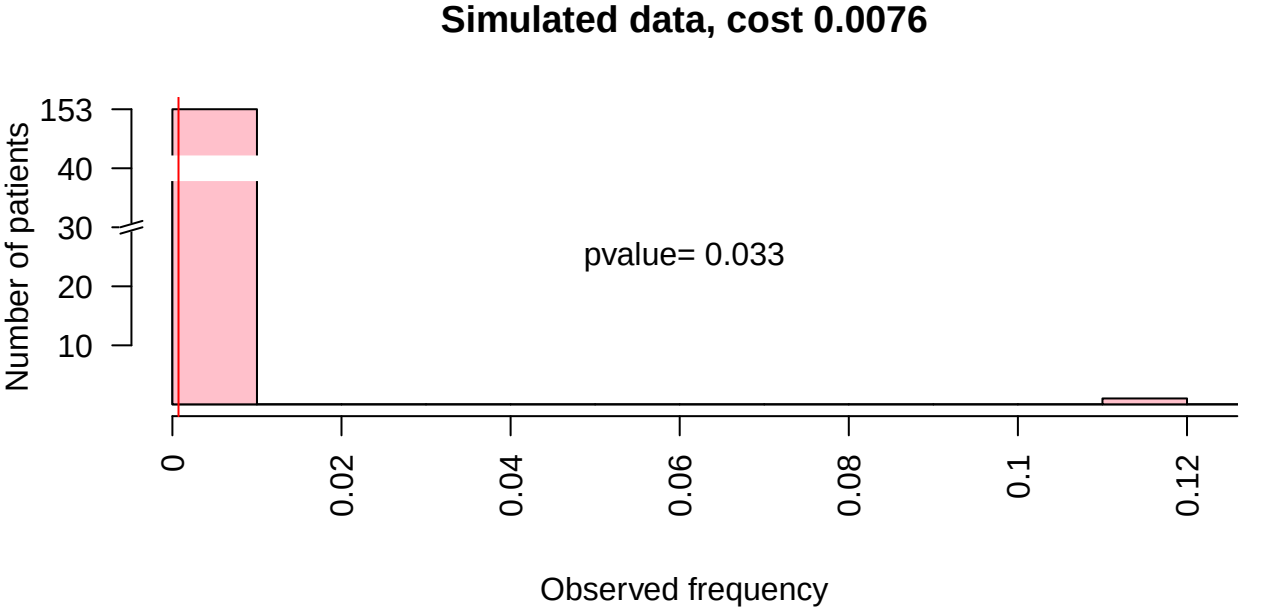

Single−SFS, site 72
Number of patients
139
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
Observed frequency

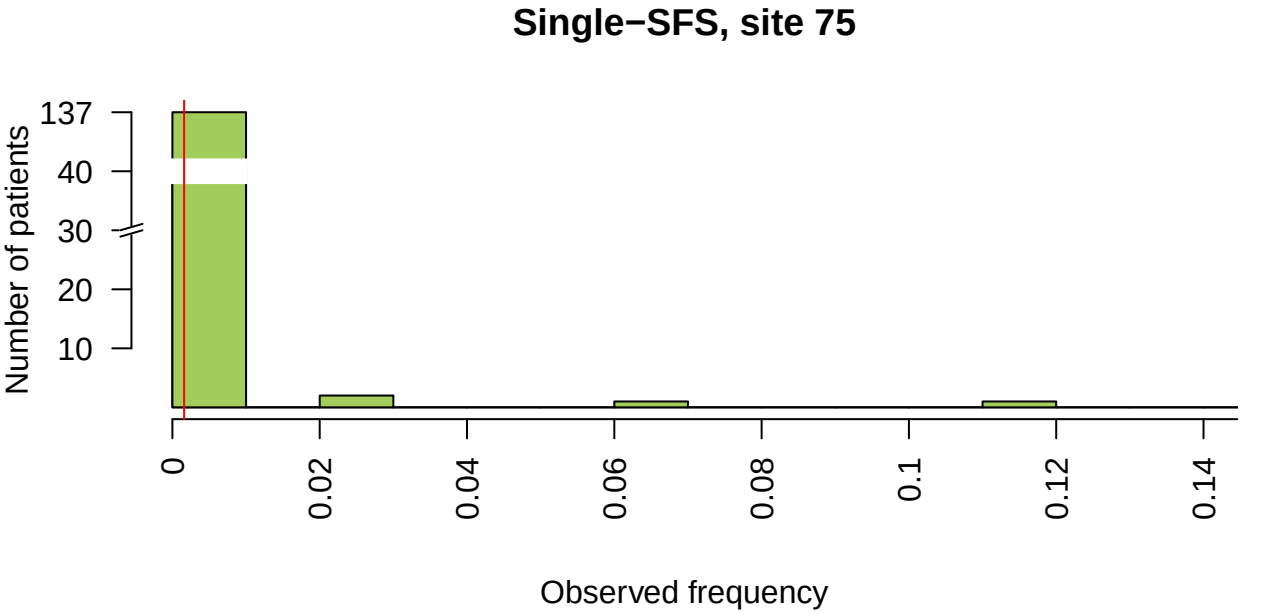

Simulated data, cost 0.0042
Number of patients
141
40
30
20
10
pvalue= 0.548
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
Observed frequency

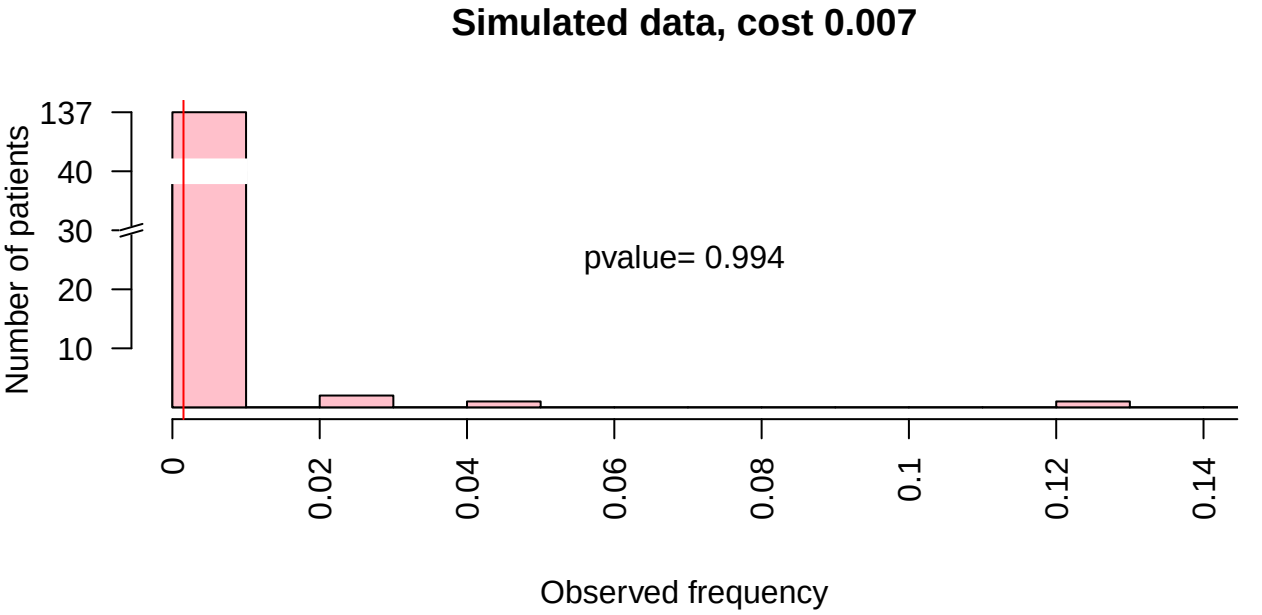

Single−SFS, site 73
Number of patients
152
40
30
20
10
0
0.02
0.04
Observed frequency

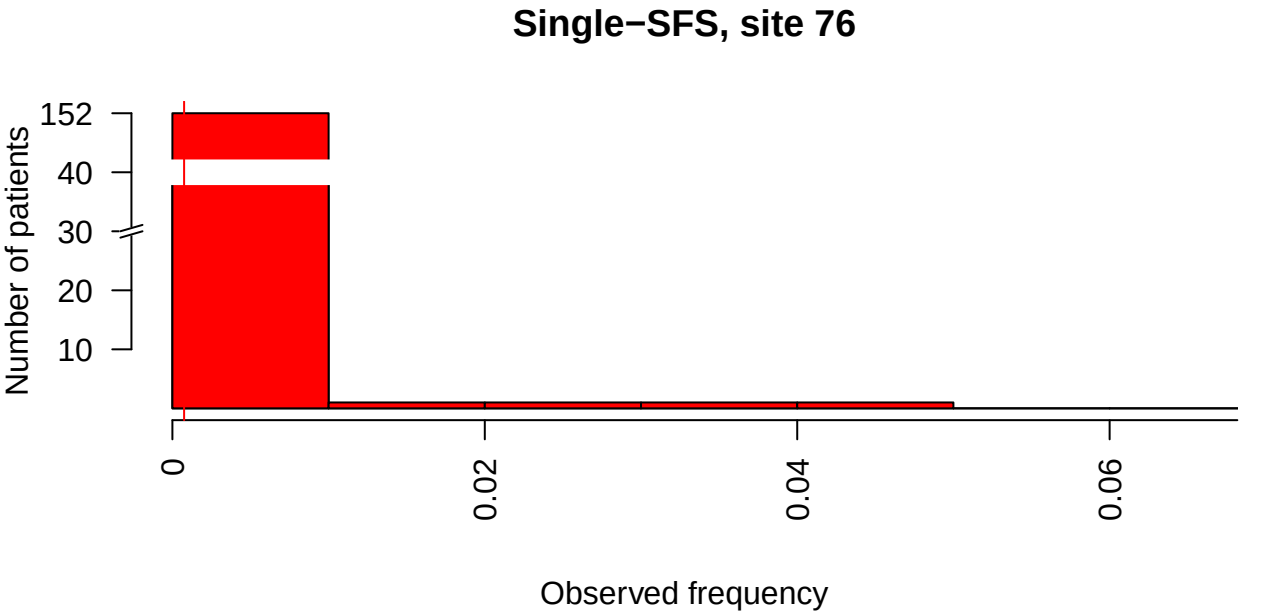

Simulated data, cost 0.1245
Number of patients
153
40
30
20
10
pvalue= 0.565
0
0.02
0.04
Observed frequency

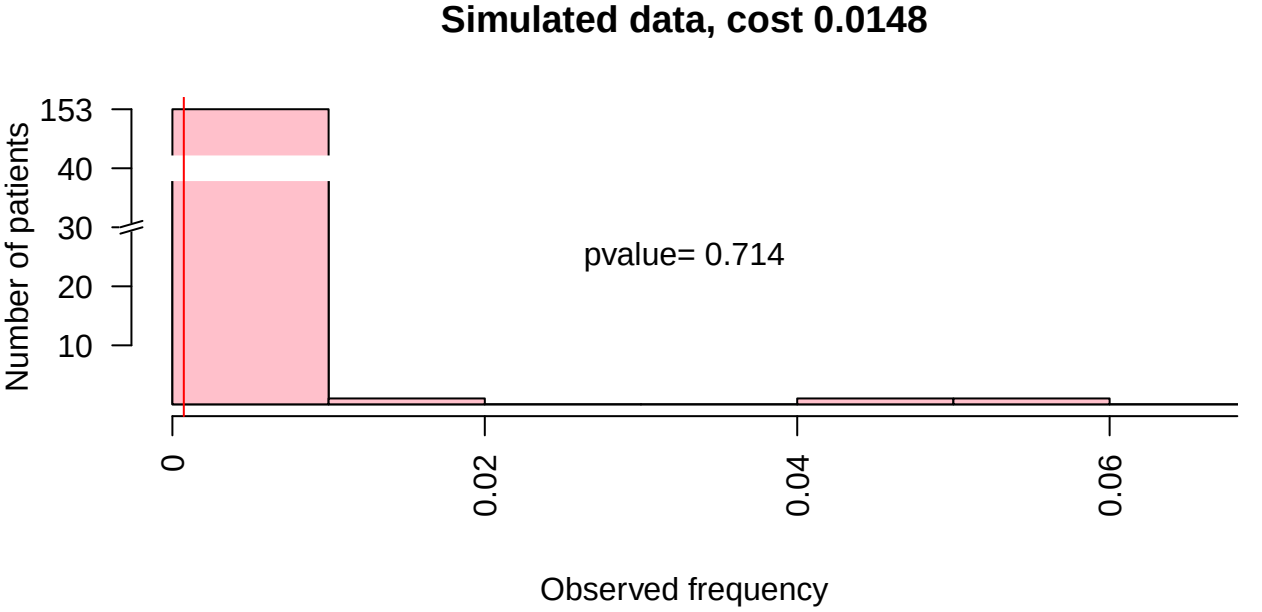

Single−SFS, site 74
Number of patients
147
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
Observed frequency

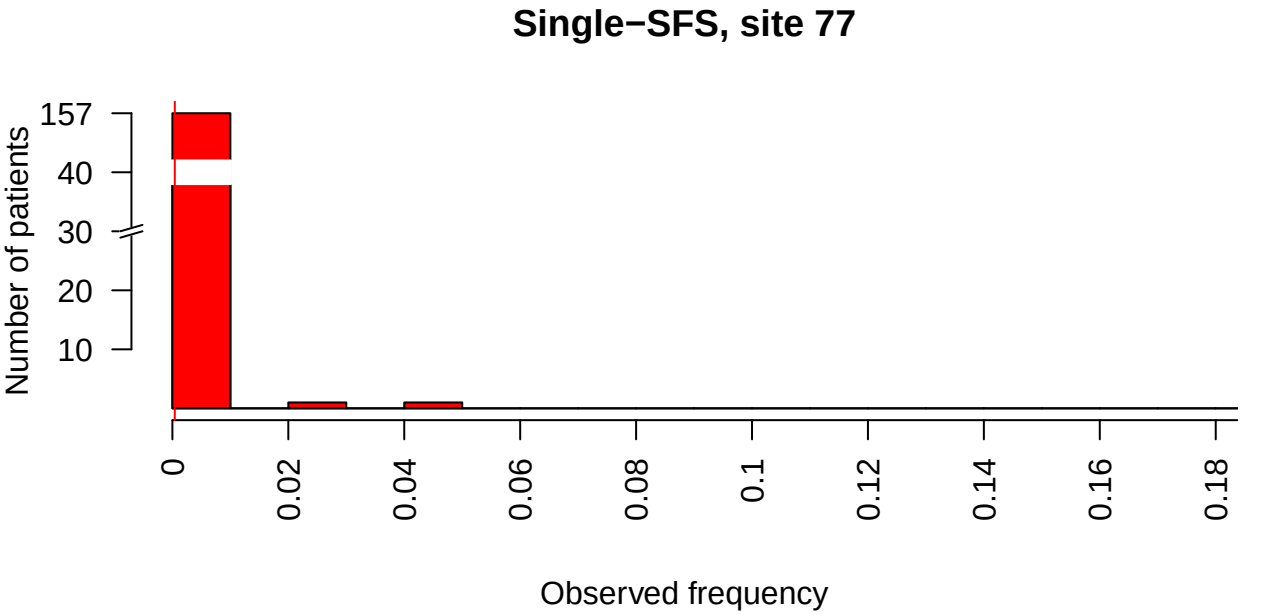

Simulated data, cost 0.0076
Number of patients
153
40
30
20
10
pvalue= 0.033
0
0.02
0.04
0.06
0.08
0.1
0.12
Observed frequency

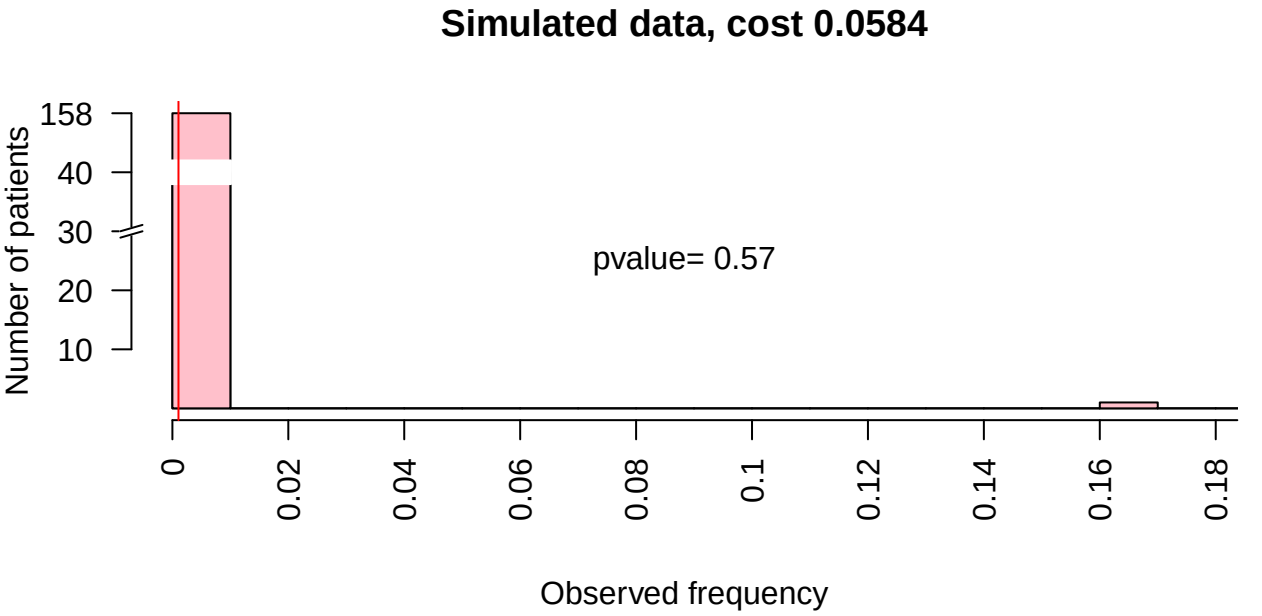

Single−SFS, site 75
Number of patients
137
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
Observed frequency

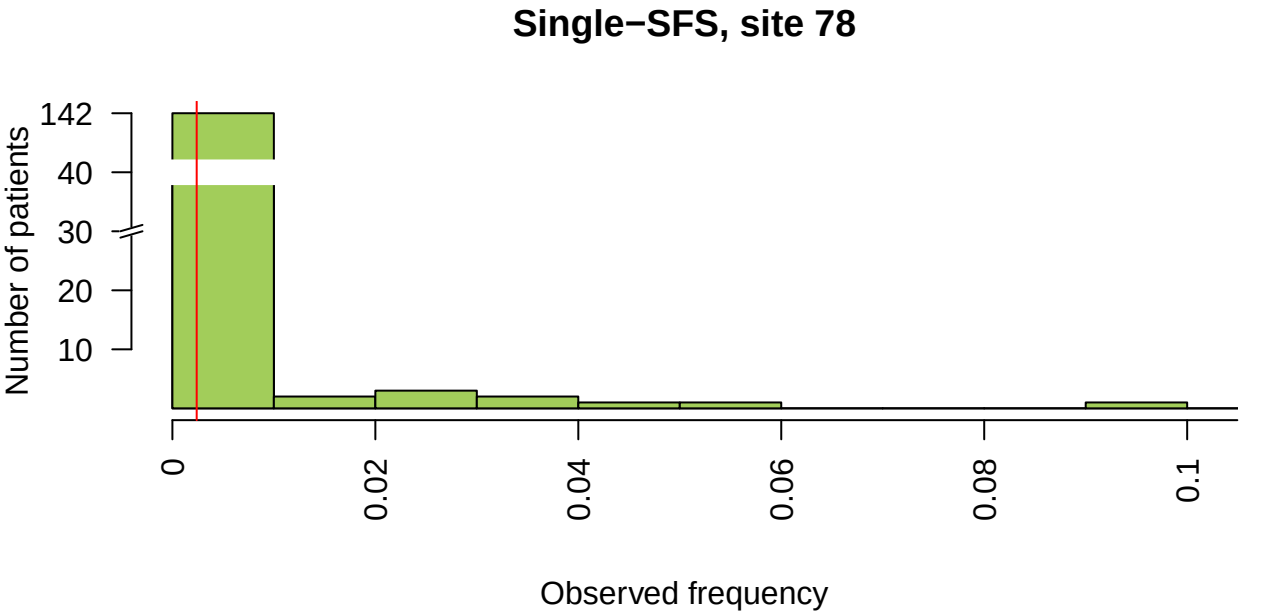

Simulated data, cost 0.007
Number of patients
137
40
30
20
10
pvalue= 0.994
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
Observed frequency

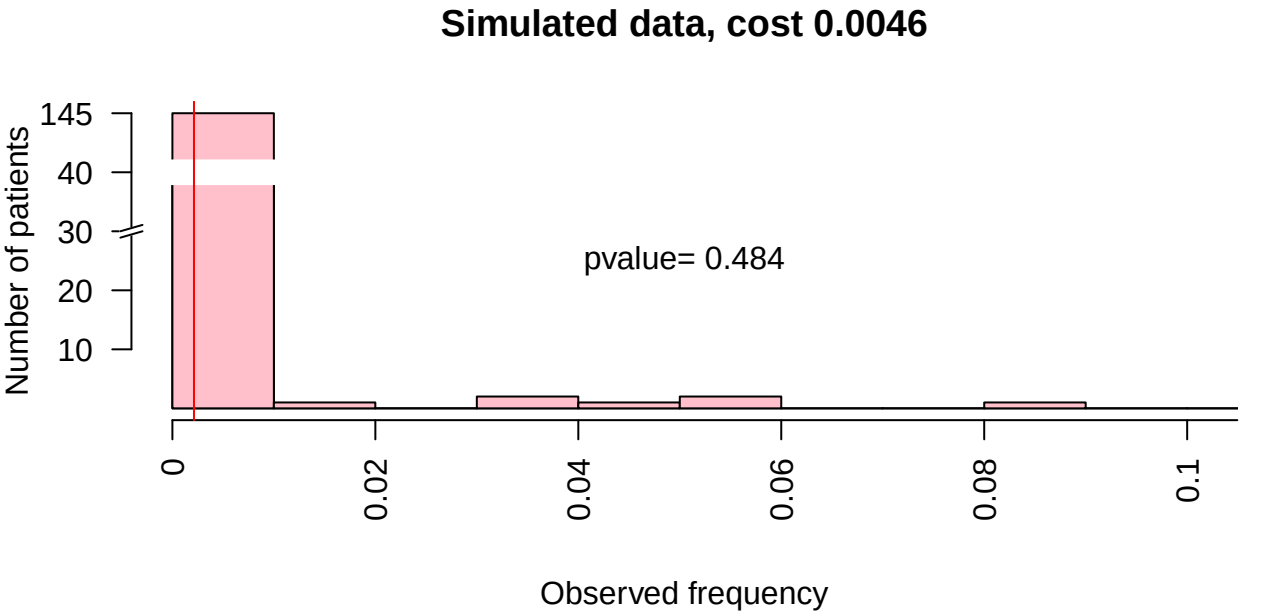

Single−SFS, site 76
Number of patients
152
40
30
20
10
0
0.02
0.04
0.06
Observed frequency

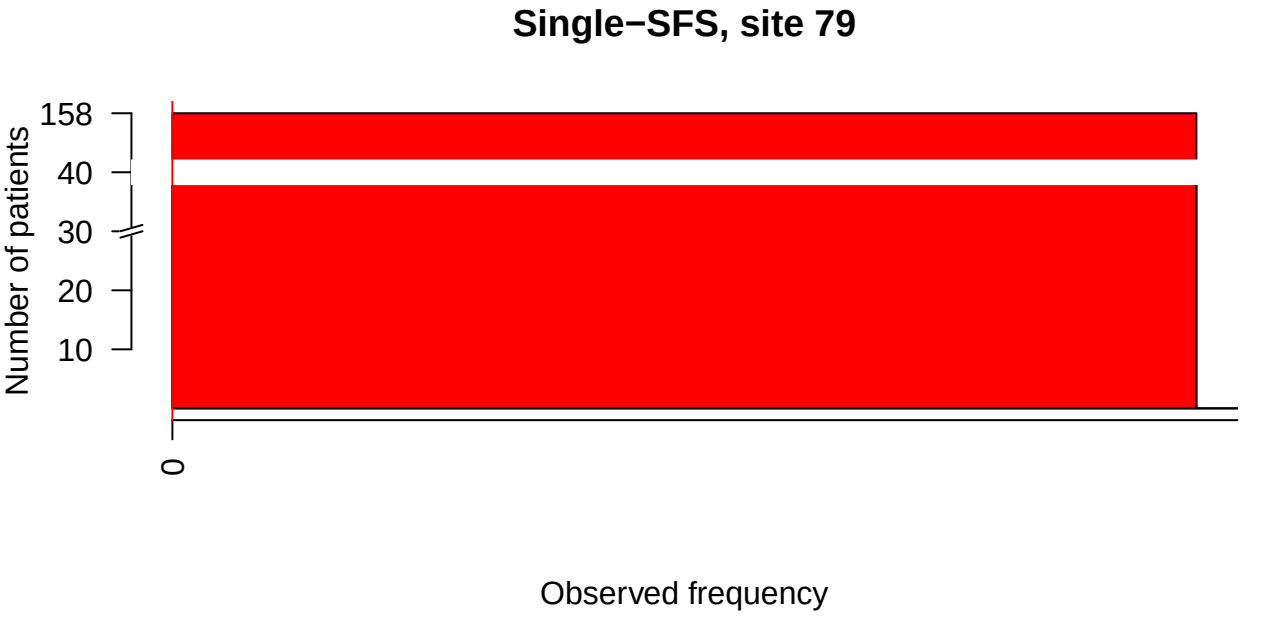

Simulated data, cost 0.0148
Number of patients
153
40
30
20
10
pvalue= 0.714
0
0.02
0.04
0.06
Observed frequency

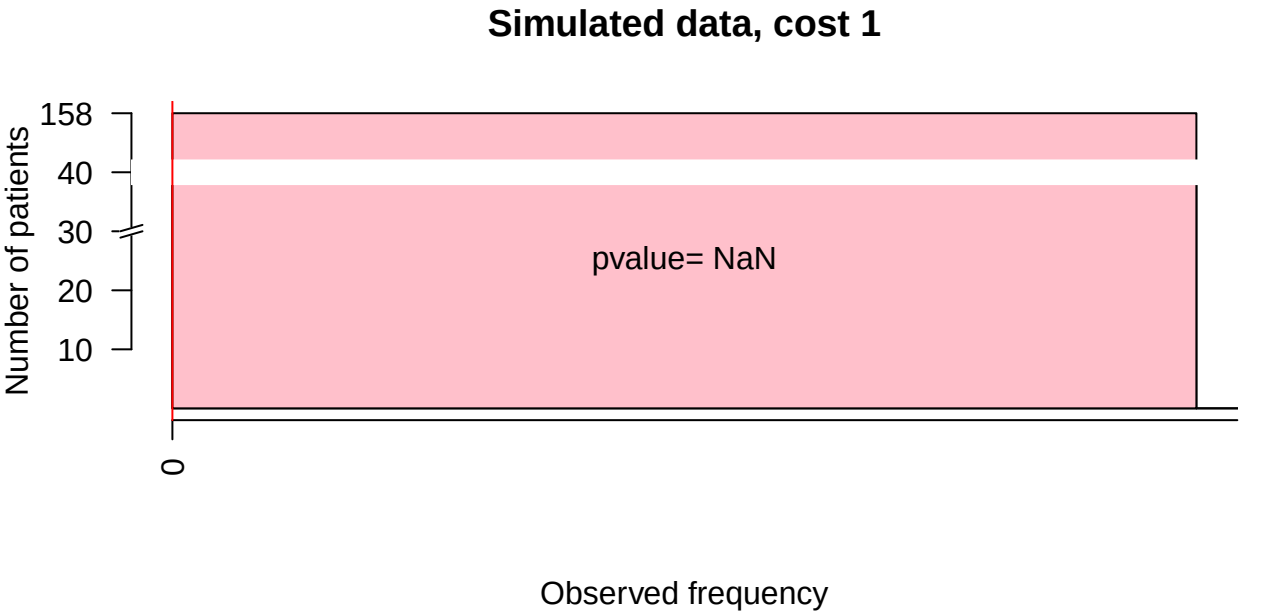

Single−SFS, site 77
Number of patients
157
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
Observed frequency

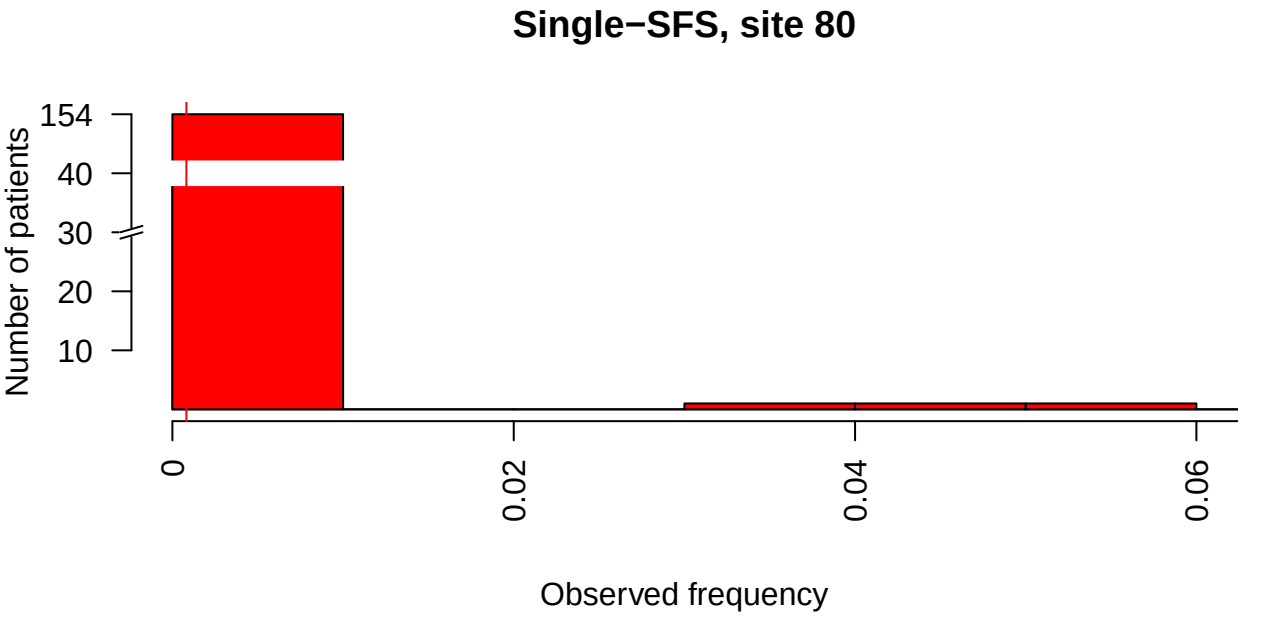

Simulated data, cost 0.0584
Number of patients
158
40
30
20
10
pvalue= 0.57
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
Observed frequency

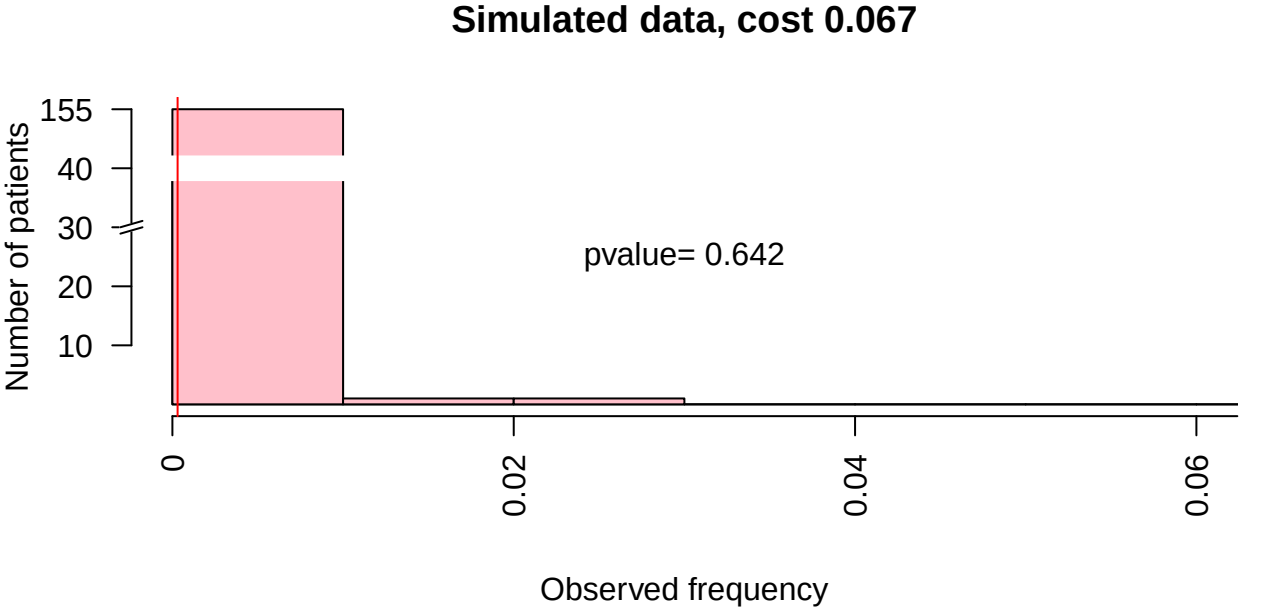

Single−SFS, site 78
Number of patients
142
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
Observed frequency

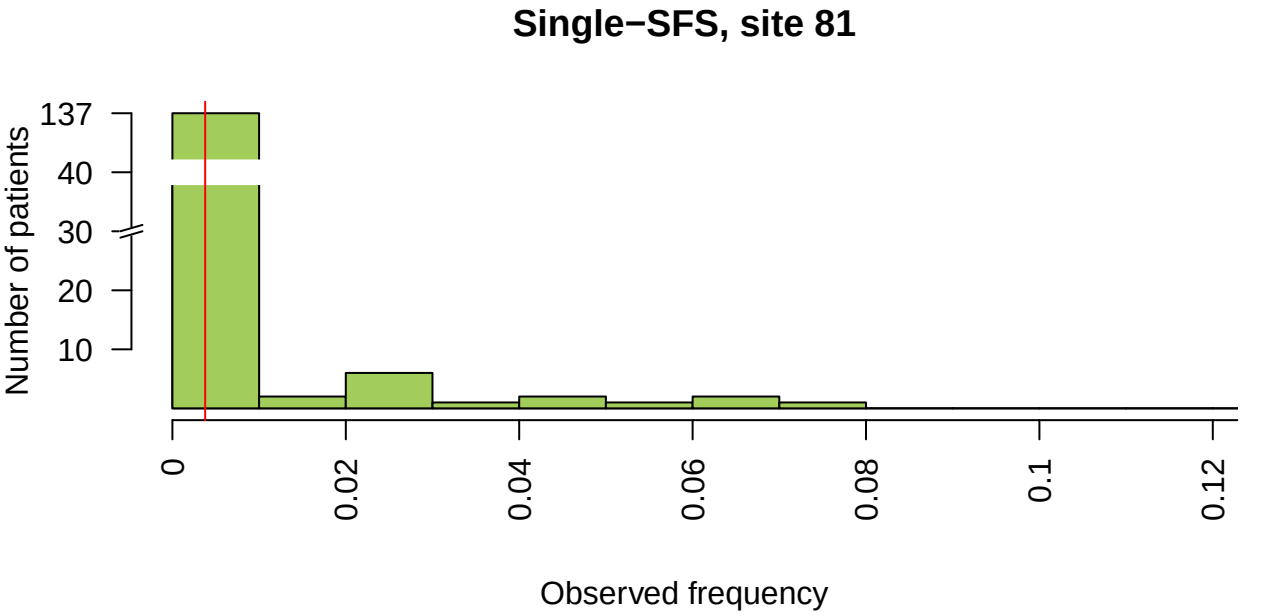

Simulated data, cost 0.0046
Number of patients
145
40
30
20
10
pvalue= 0.484
0
0.02
0.04
0.06
0.08
0.1
Observed frequency

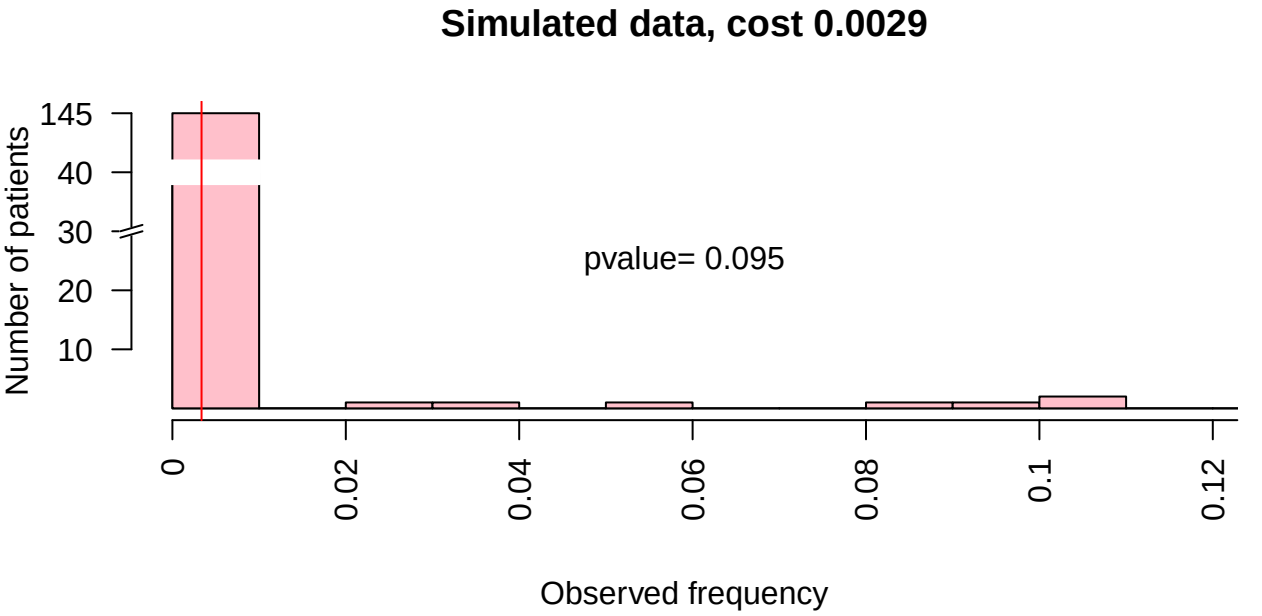

Single−SFS, site 79
Number of patients
158
40
30
20
10
0
Observed frequency

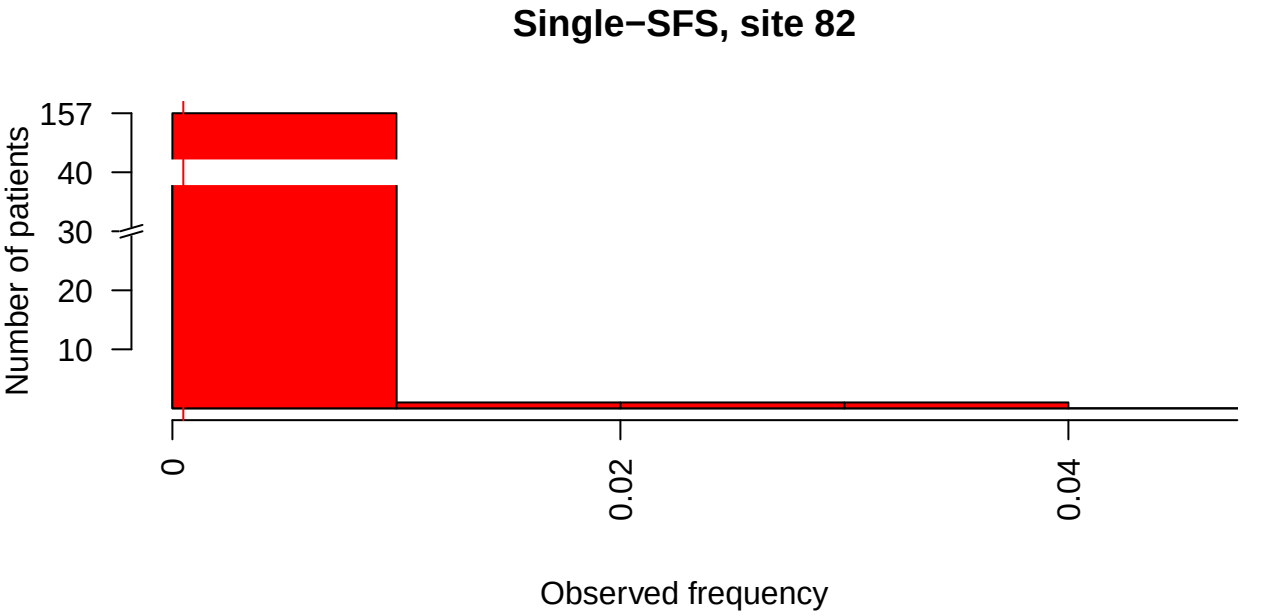

Simulated data, cost 1
Number of patients
158
40
30
20
10
0
pvalue= NaN
Observed frequency

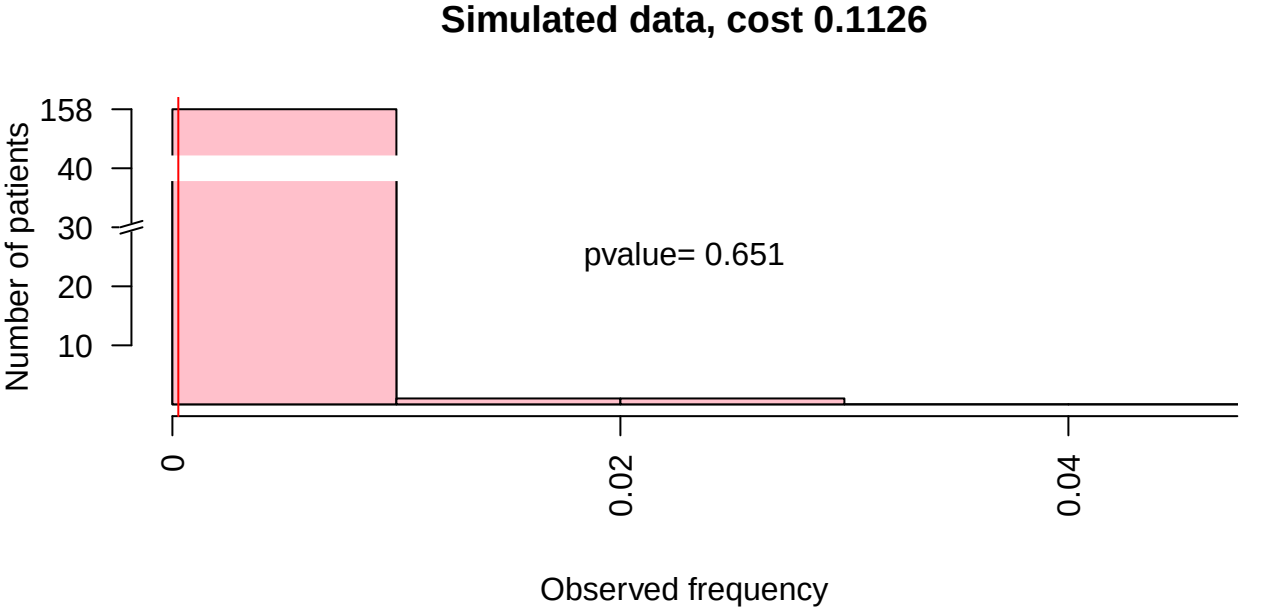

Single−SFS, site 80
Number of patients
154
40
30
20
10
0
0.02
0.04
0.06
Observed frequency

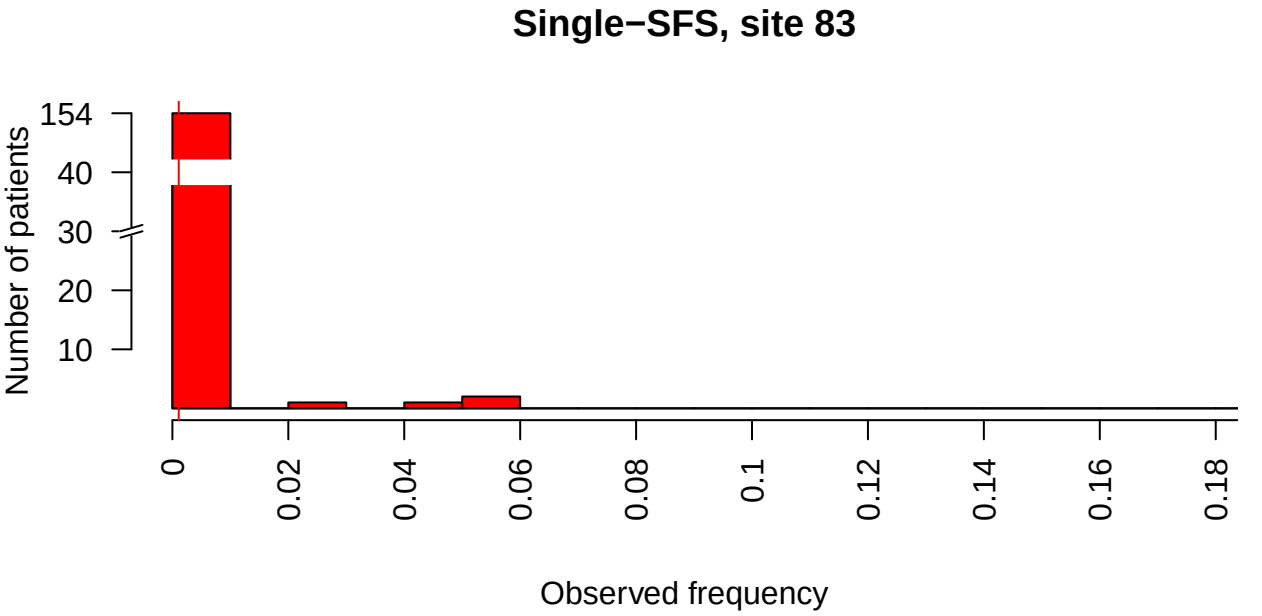

Simulated data, cost 0.067
Number of patients
155
40
30
20
10
pvalue= 0.642
0
0.02
0.04
0.06
Observed frequency

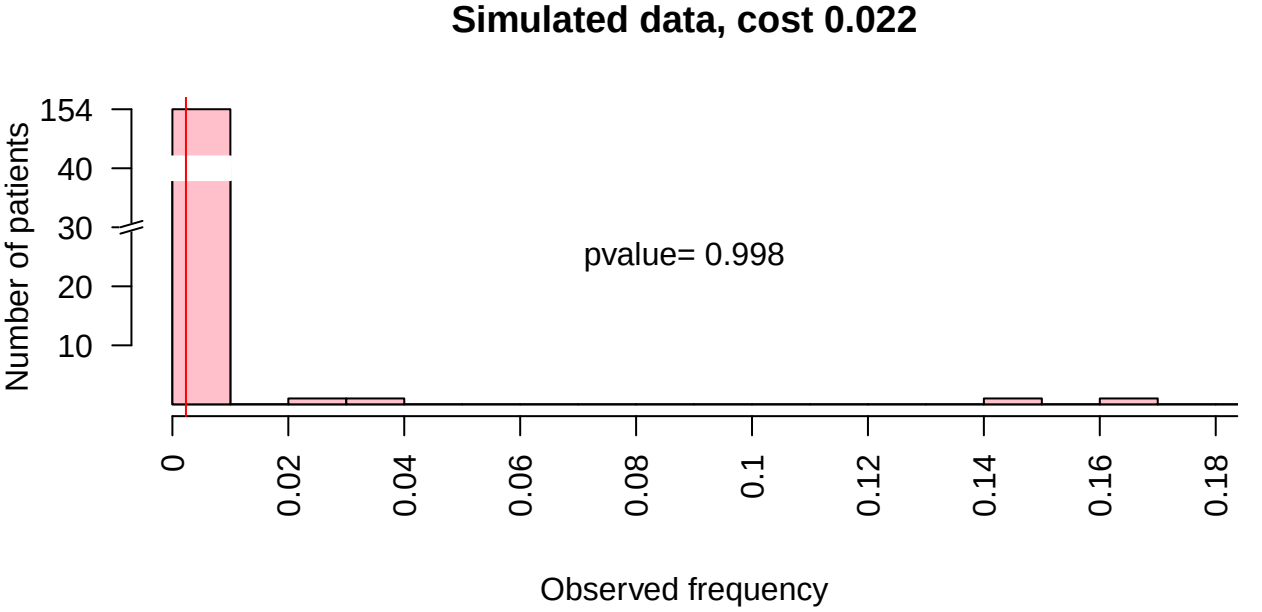

Single−SFS, site 81
Number of patients
137
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
Observed frequency

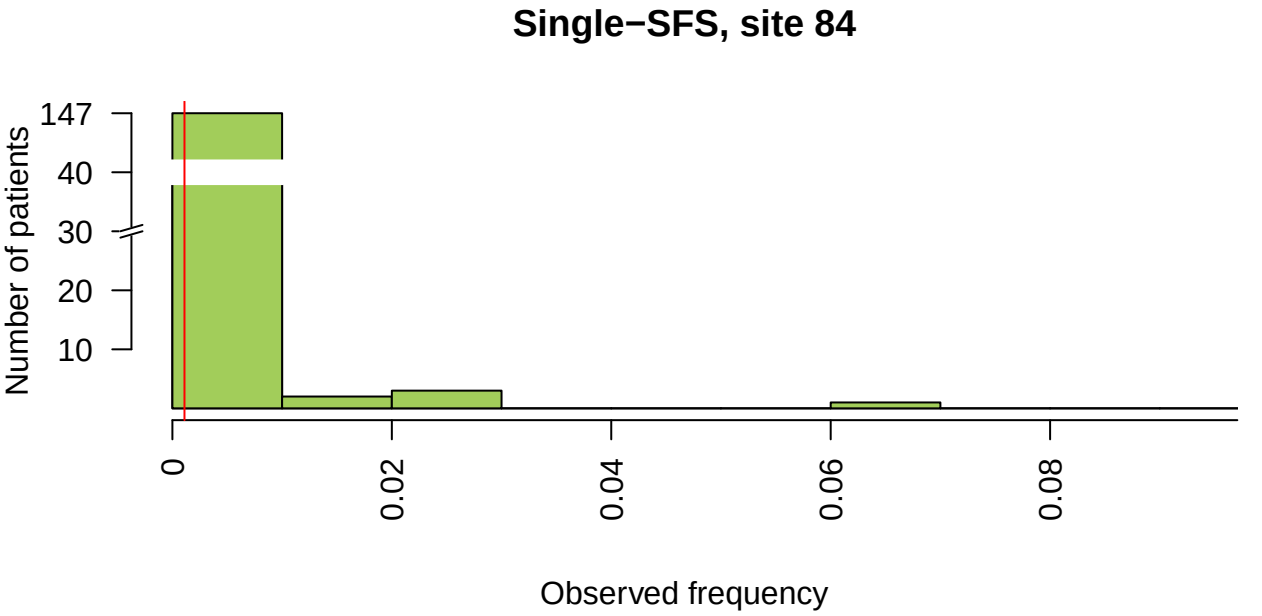

Simulated data, cost 0.0029
Number of patients
145
40
30
20
10
pvalue= 0.095
0
0.02
0.04
0.06
0.08
0.1
0.12
Observed frequency

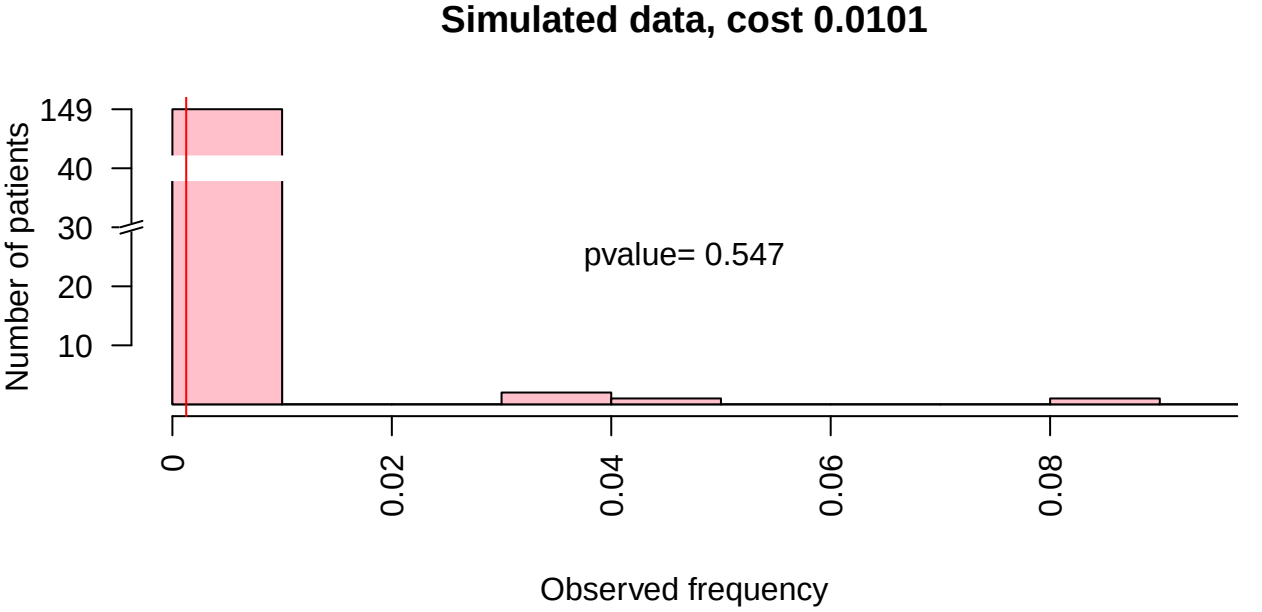

Single−SFS, site 82
Number of patients
157
40
30
20
10
0
0.02
0.04
Observed frequency

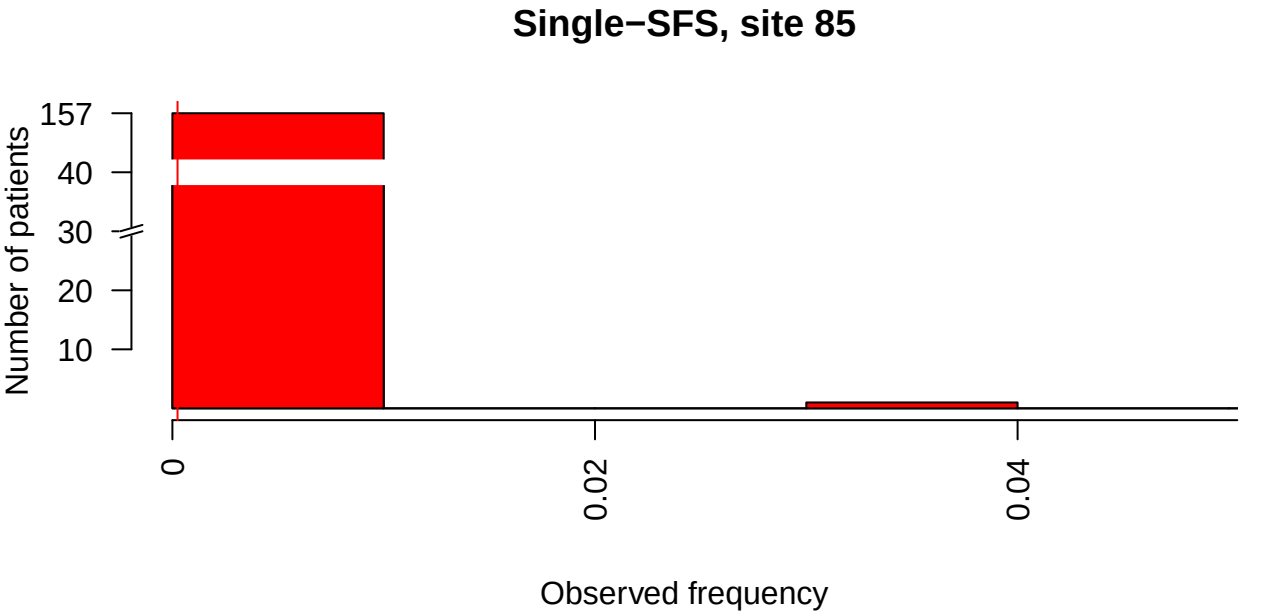

Simulated data, cost 0.1126
Number of patients
158
40
30
20
10
pvalue= 0.651
0
0.02
0.04
Observed frequency

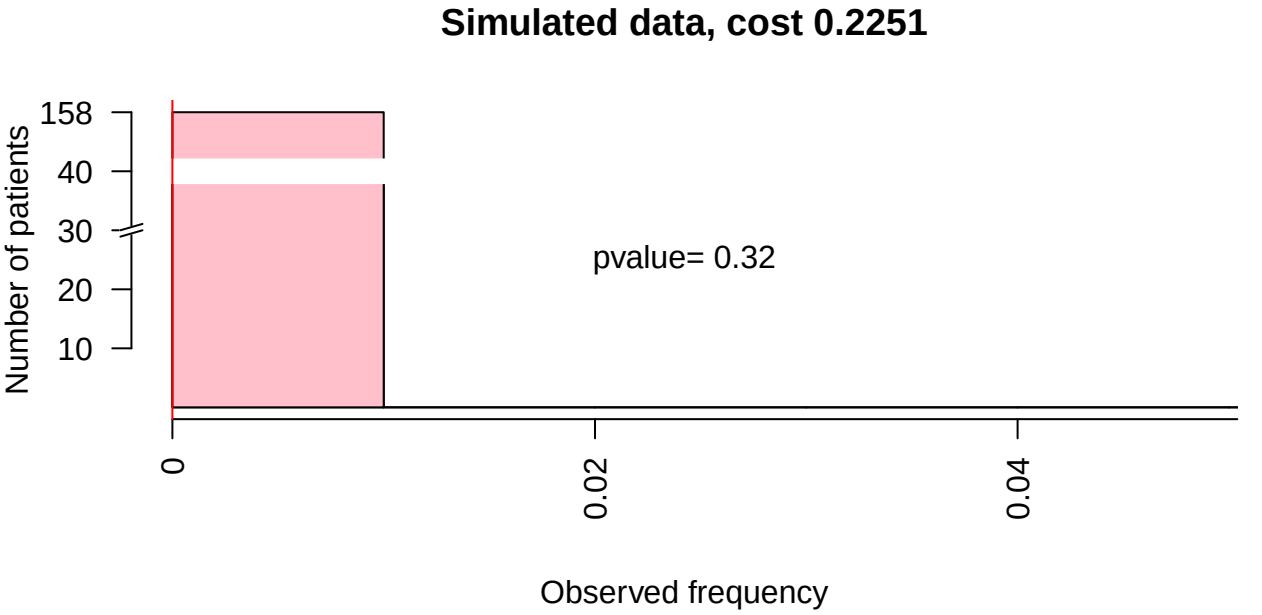

Single−SFS, site 83
Number of patients
154
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
Observed frequency

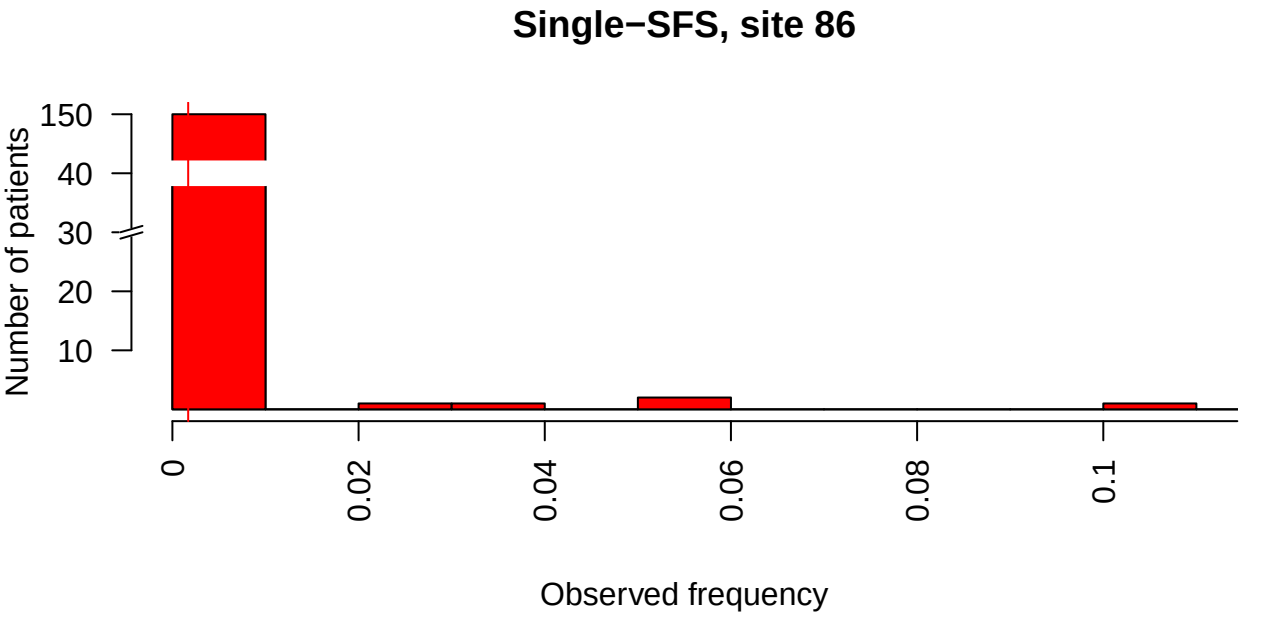

Simulated data, cost 0.022
Number of patients
154
40
30
20
10
pvalue= 0.998
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
Observed frequency

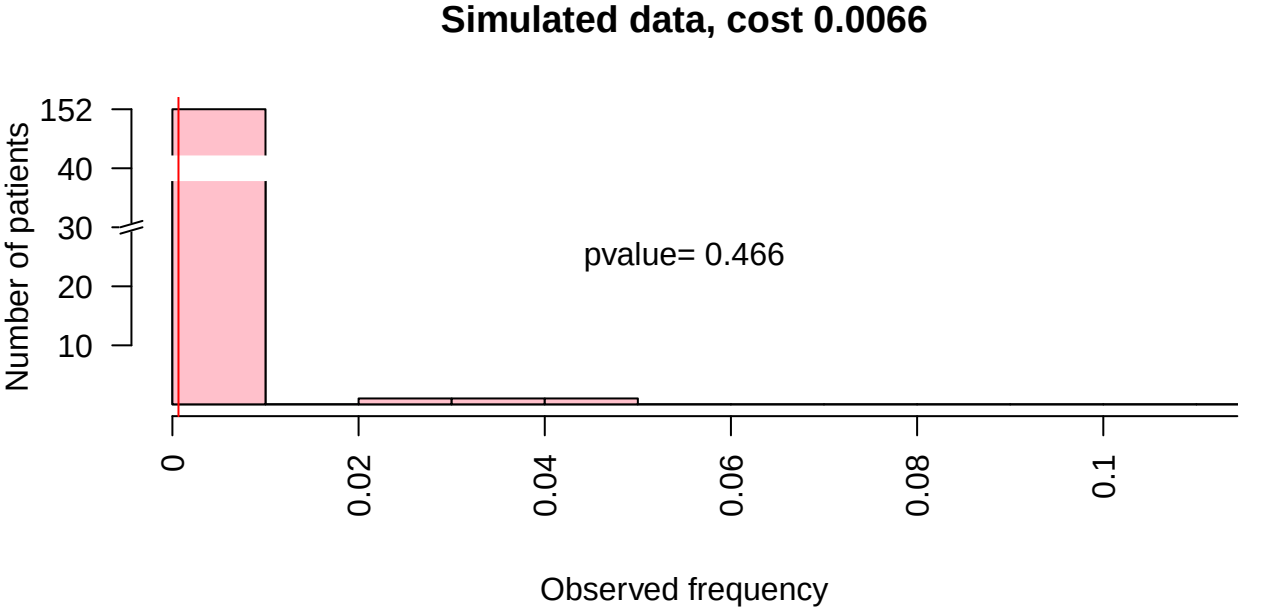

Single−SFS, site 84
Number of patients
147
40
30
20
10
0
0.02
0.04
0.06
0.08
Observed frequency

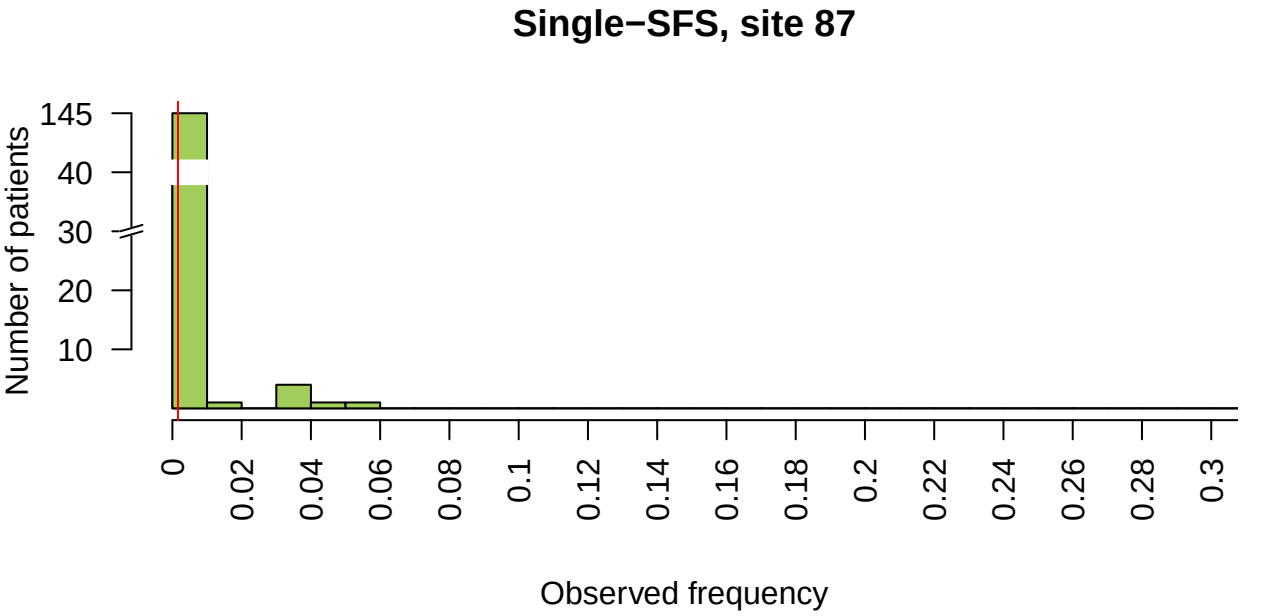

Simulated data, cost 0.0101
Number of patients
149
40
30
20
10
pvalue= 0.547
0
0.02
0.04
0.06
0.08
Observed frequency

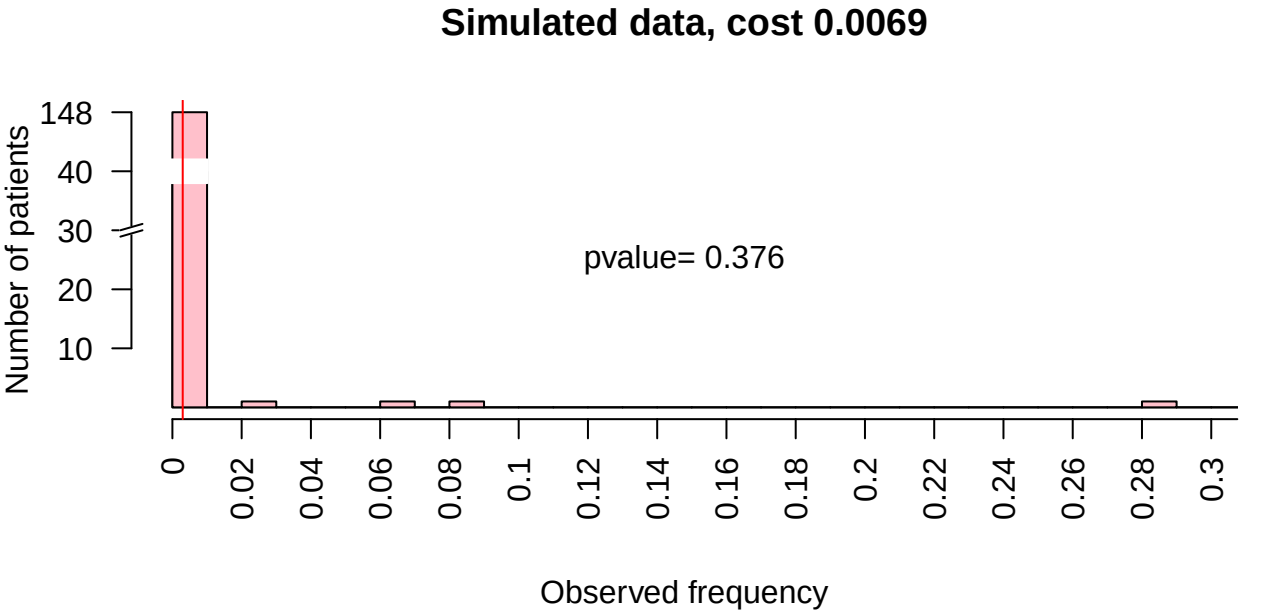

Single−SFS, site 85
Number of patients
157
40
30
20
10
0
0.02
0.04
Observed frequency

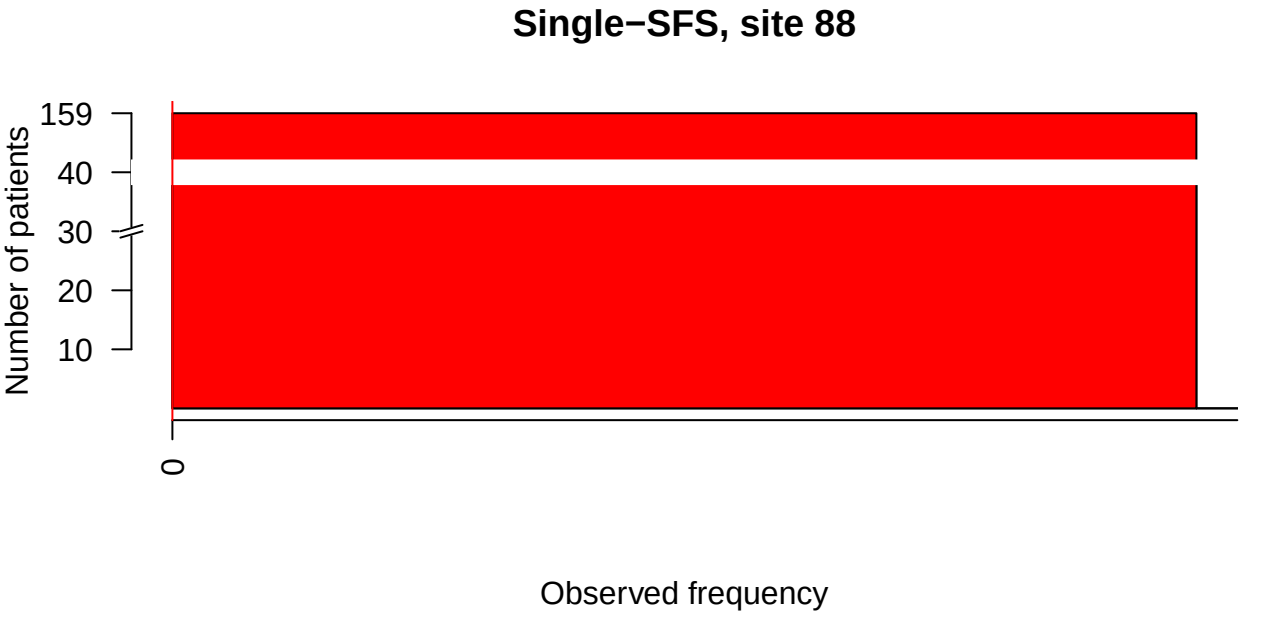

Simulated data, cost 0.2251
Number of patients
158
40
30
20
10
pvalue= 0.32
0
0.02
0.04
Observed frequency

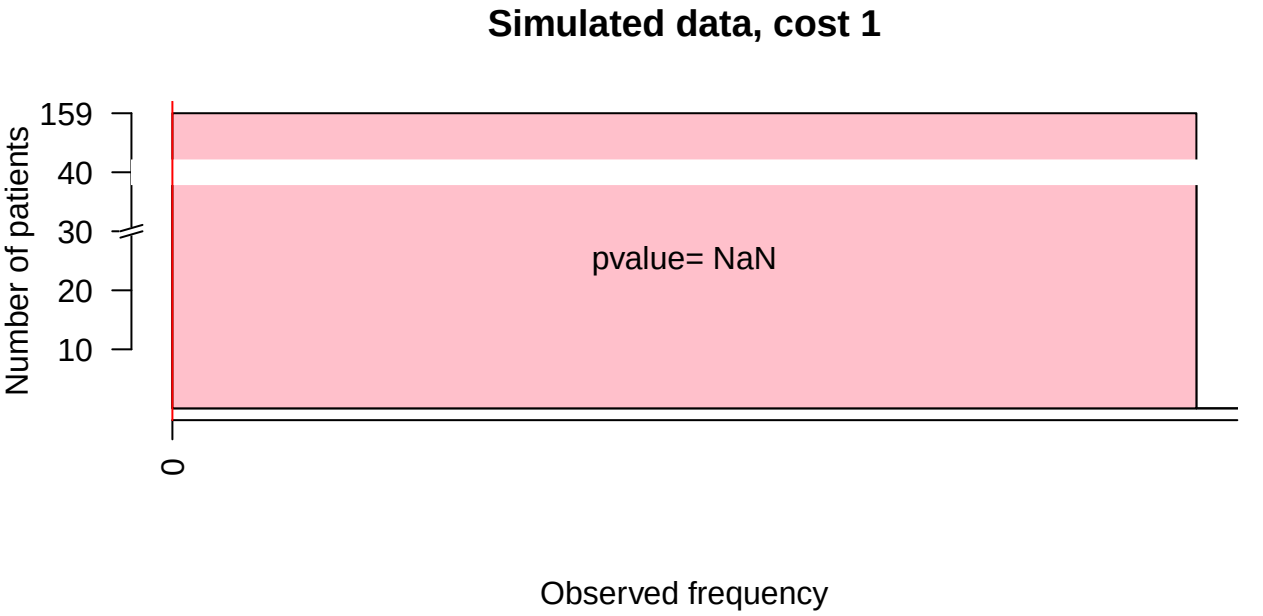

Single−SFS, site 86
Number of patients
150
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
Observed frequency

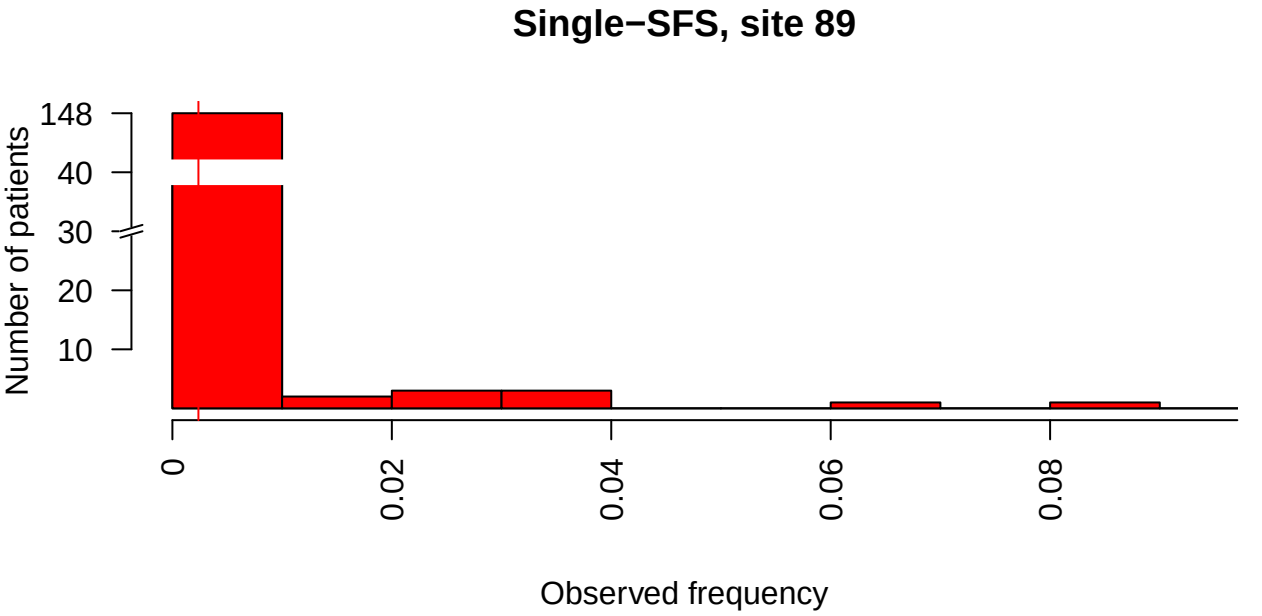

Simulated data, cost 0.0066
Number of patients
152
40
30
20
10
pvalue= 0.466
0
0.02
0.04
0.06
0.08
0.1
Observed frequency

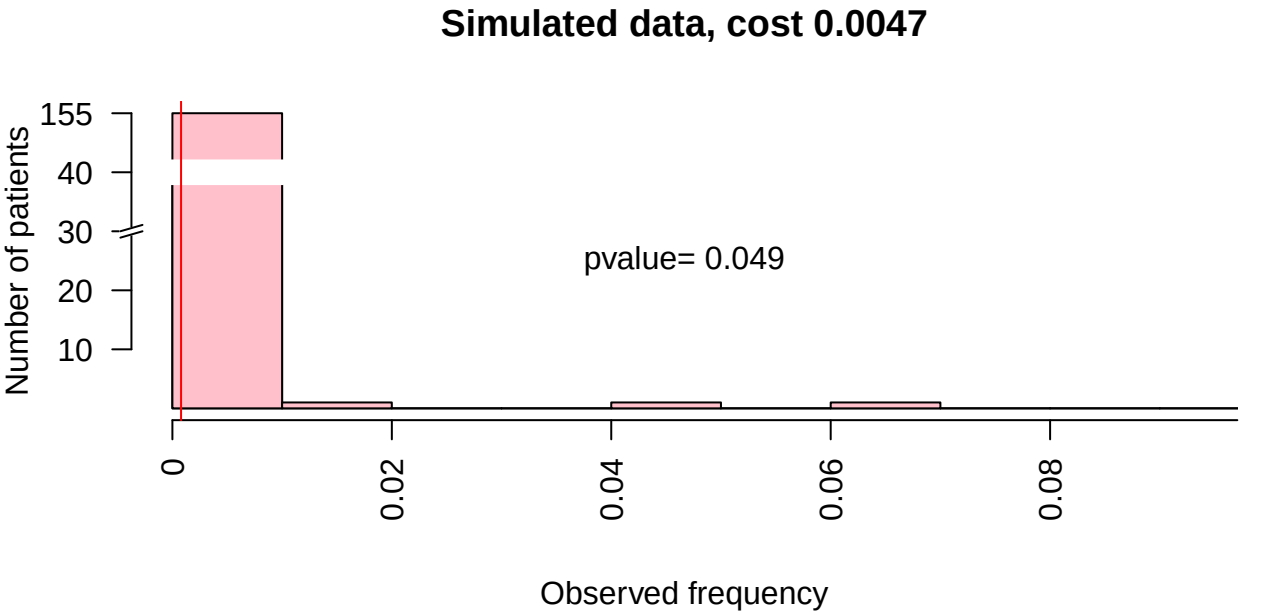

Single−SFS, site 87
Number of patients
145
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
0.24
0.26
0.28
0.3
Observed frequency

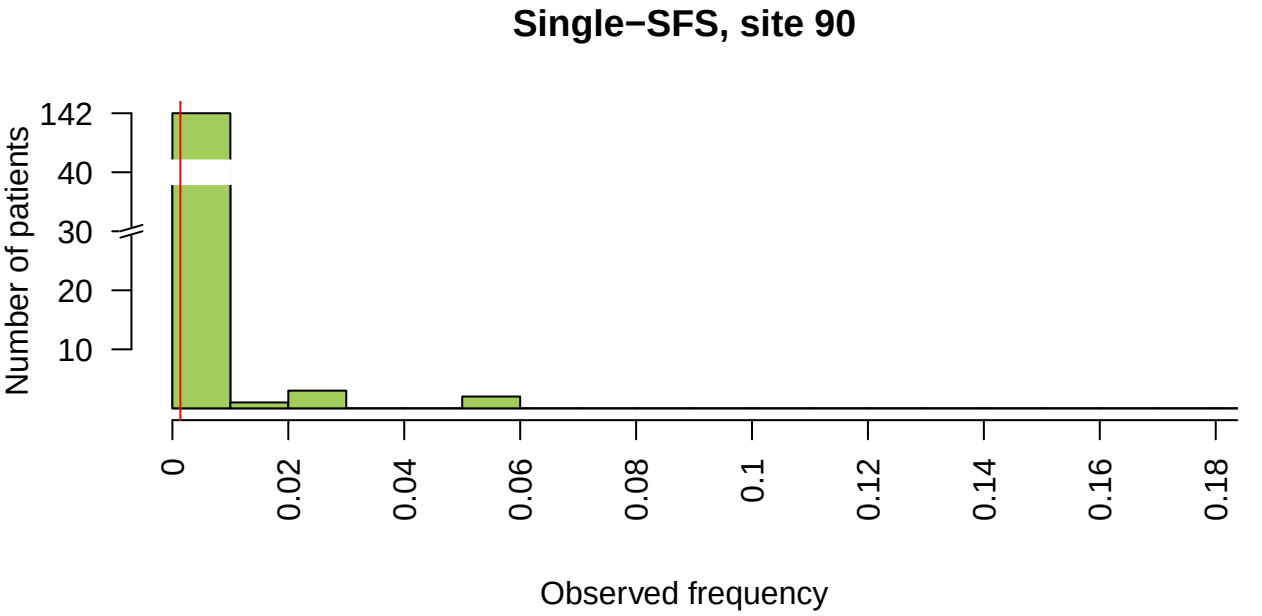

Simulated data, cost 0.0069
Number of patients
148
40
30
20
10
pvalue= 0.376
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
0.24
0.26
0.28
0.3
Observed frequency

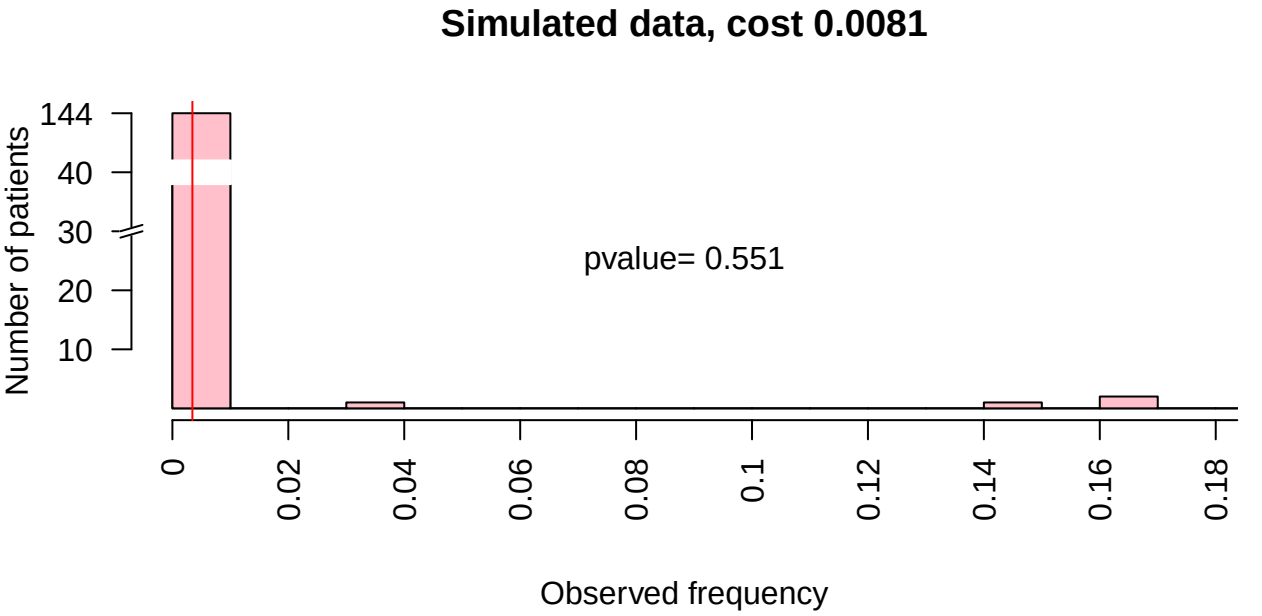

Single−SFS, site 88
Number of patients
159
40
30
20
10
0
Observed frequency

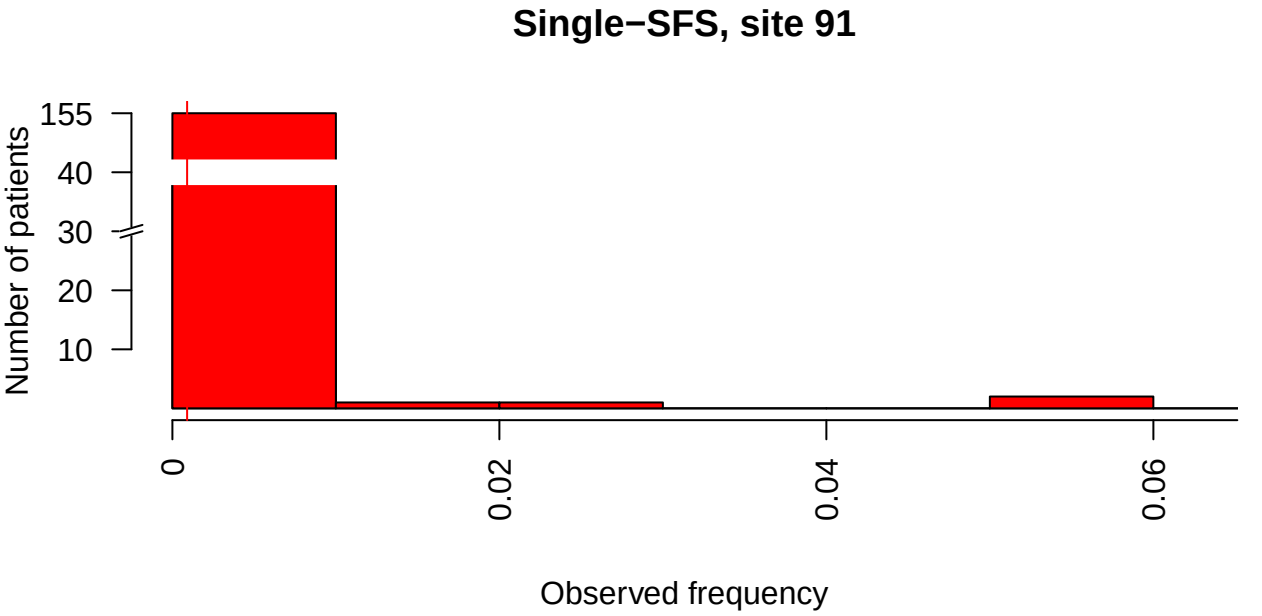

Simulated data, cost 1
Number of patients
159
40
30
20
10
0
pvalue= NaN
Observed frequency

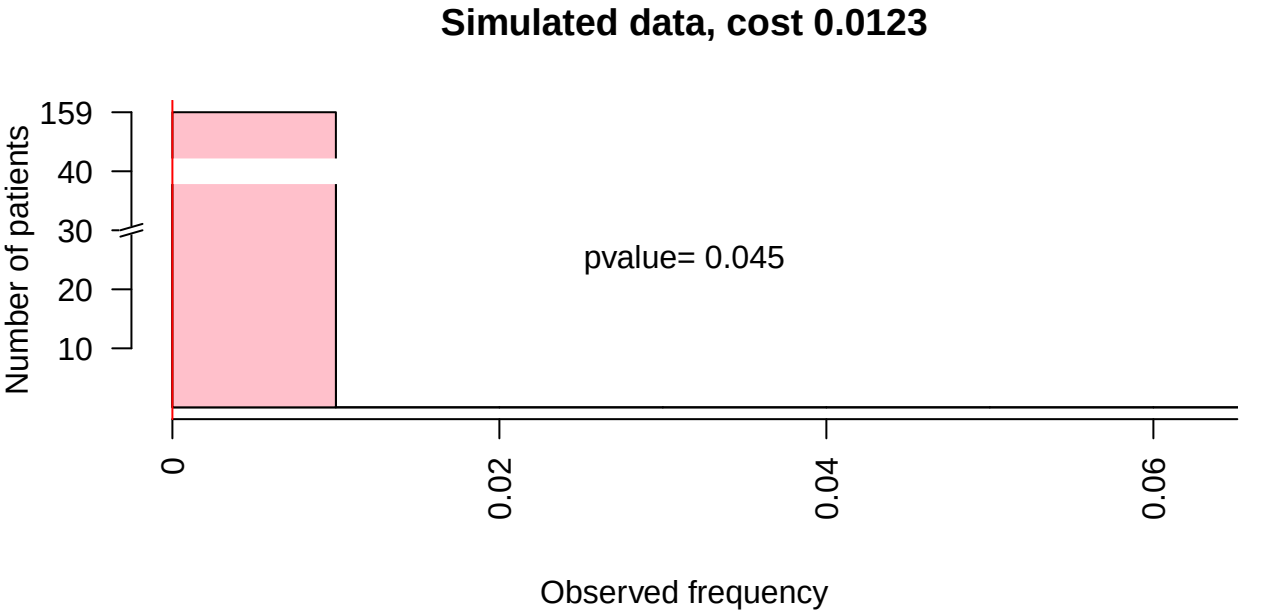

Single−SFS, site 89
Number of patients
148
40
30
20
10
0
0.02
0.04
0.06
0.08
Observed frequency

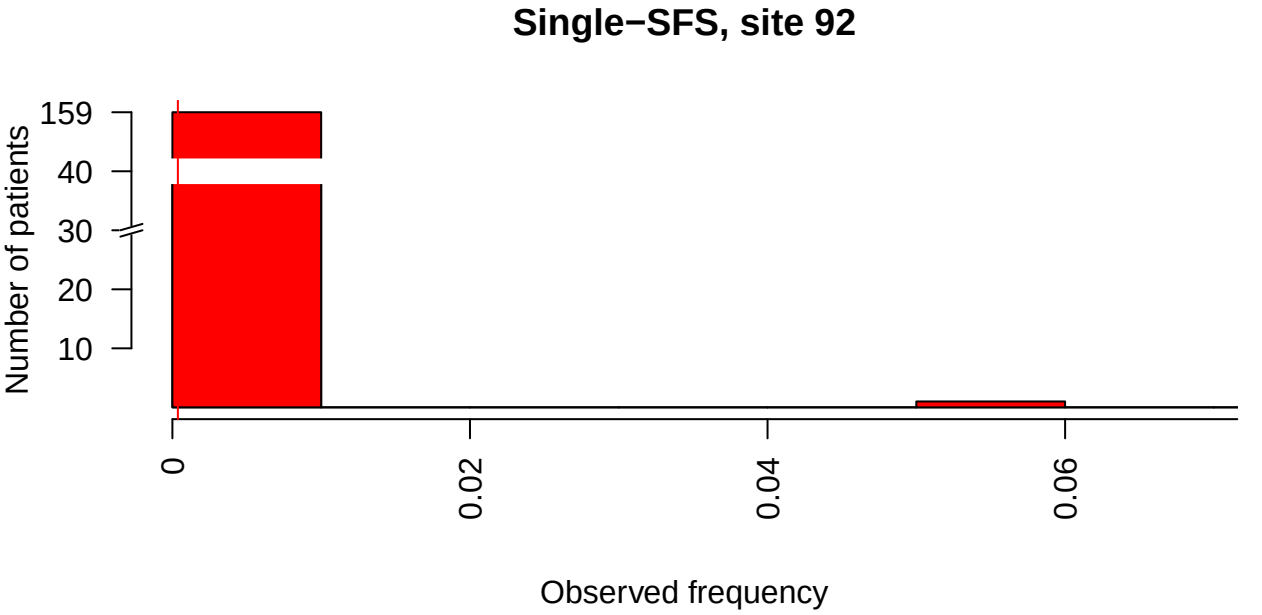

Simulated data, cost 0.0047
Number of patients
155
40
30
20
10
pvalue= 0.049
0
0.02
0.04
0.06
0.08
Observed frequency

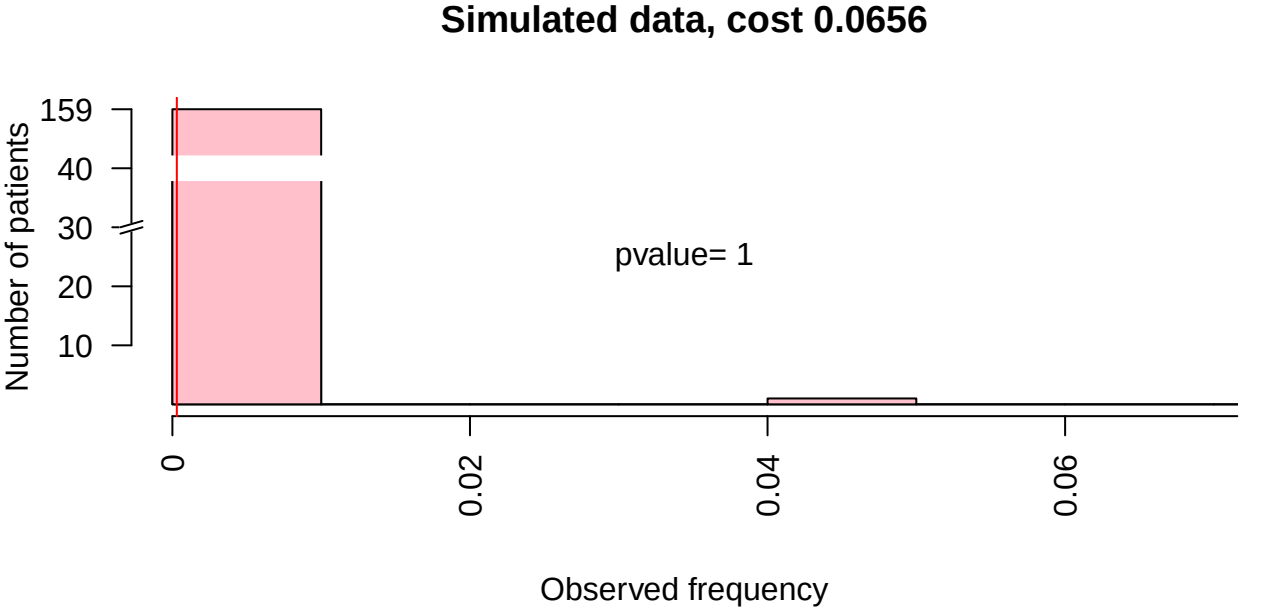

Single−SFS, site 90
Number of patients
142
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
Observed frequency

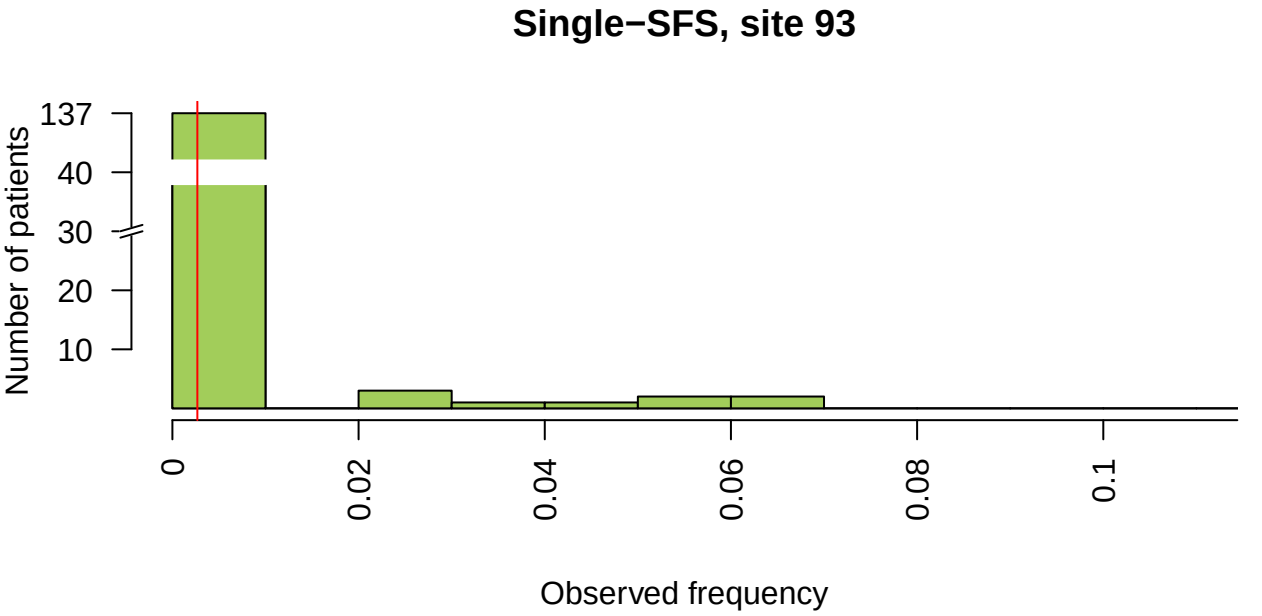

Simulated data, cost 0.0081
Number of patients
144
40
30
20
10
pvalue= 0.551
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
Observed frequency

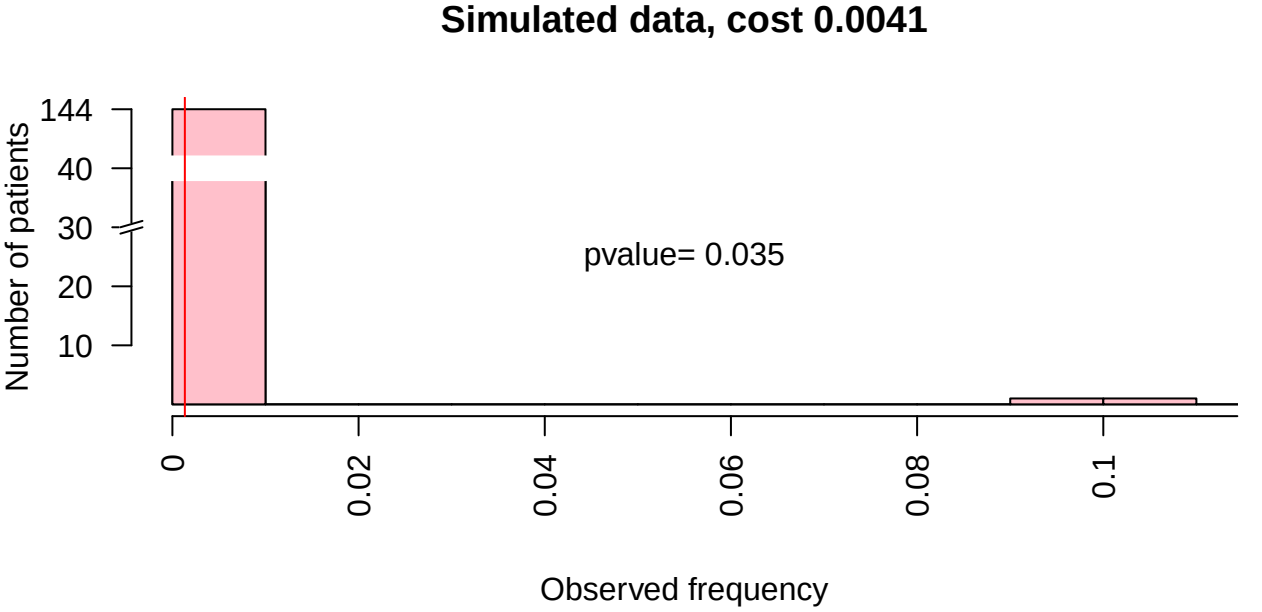

Single−SFS, site 91
Number of patients
155
40
30
20
10
0
0.02
0.04
0.06
Observed frequency

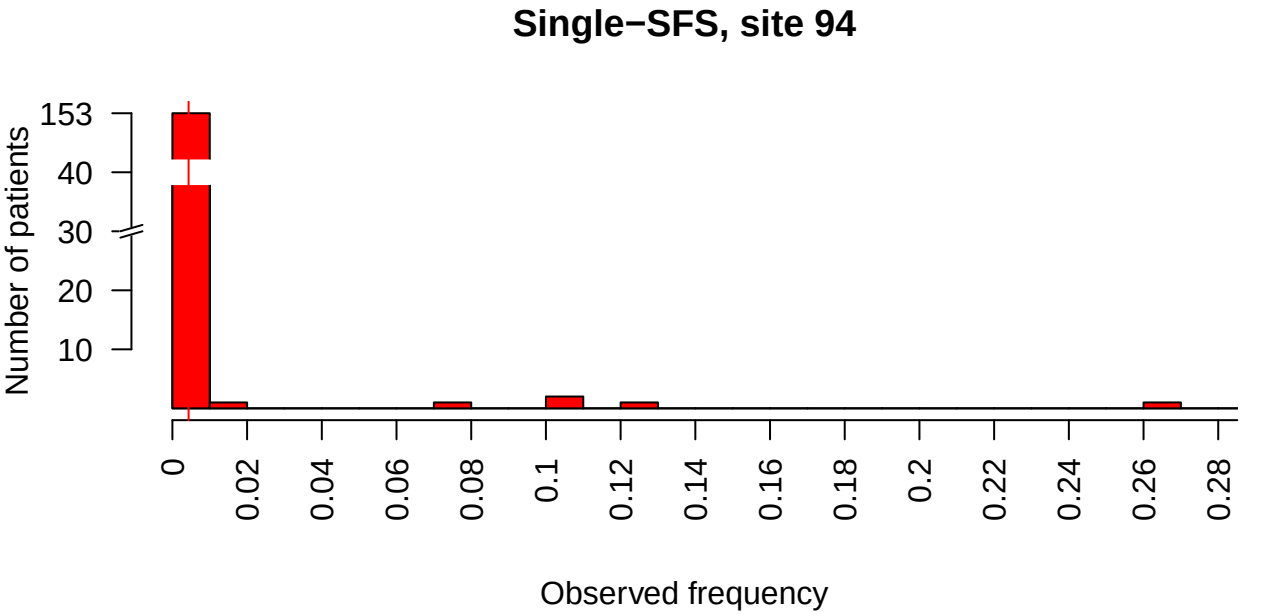

Simulated data, cost 0.0123
Number of patients
159
40
30
20
10
pvalue= 0.045
0
0.02
0.04
0.06
Observed frequency

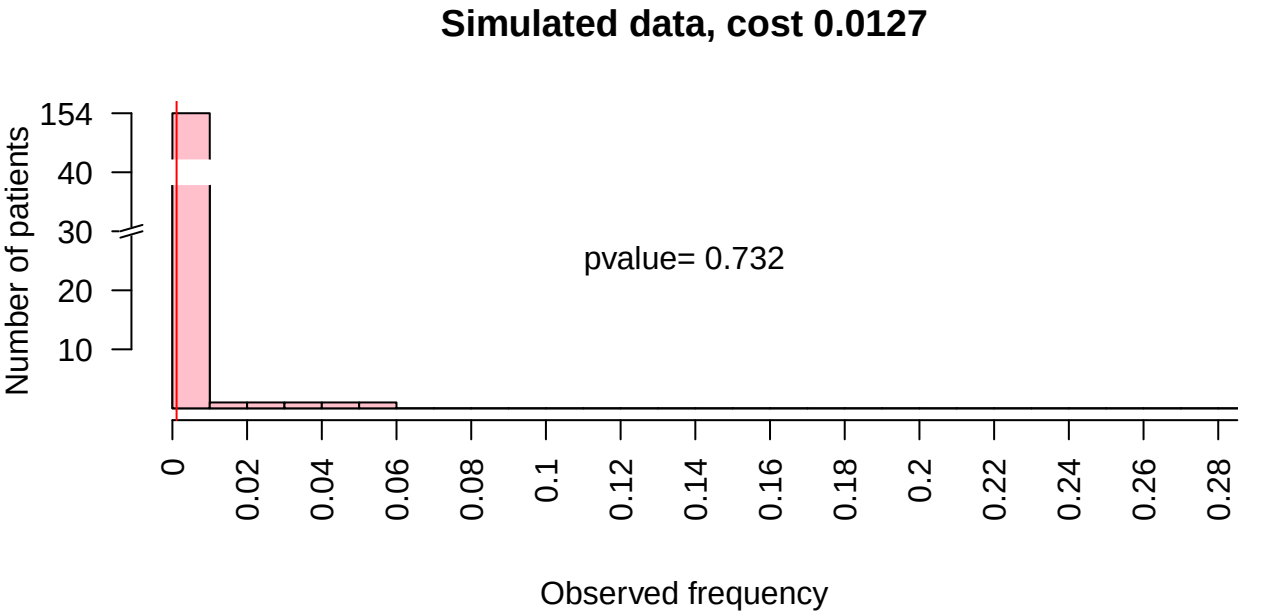

Single−SFS, site 92
Number of patients
159
40
30
20
10
0
0.02
0.04
0.06
Observed frequency

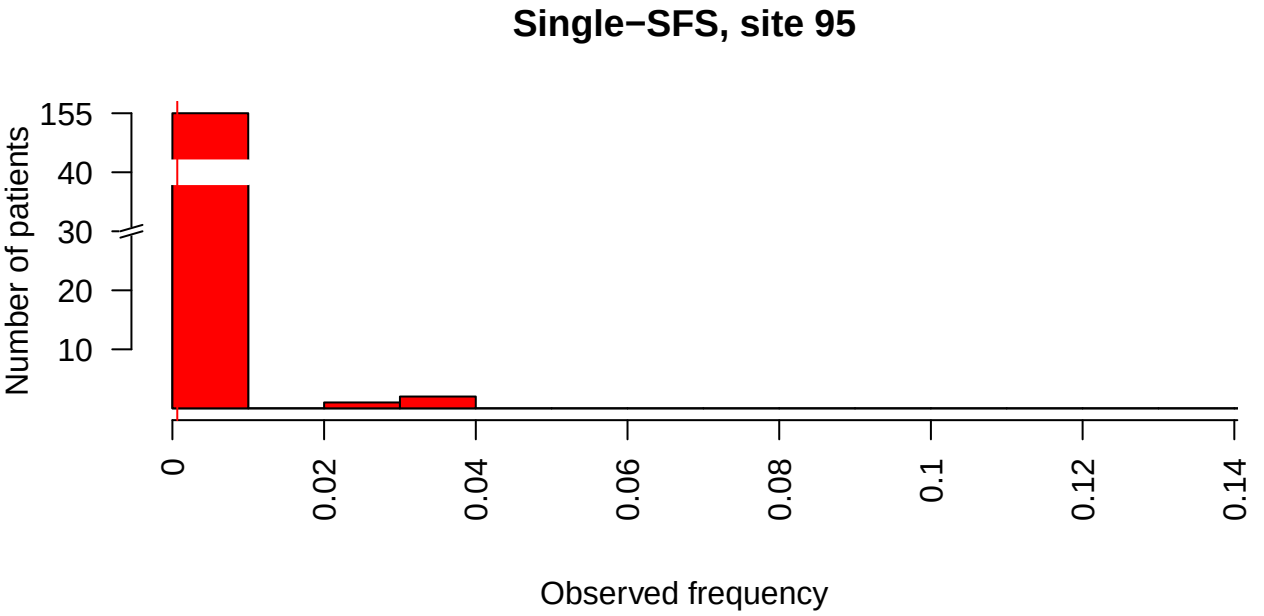

Simulated data, cost 0.0656
Number of patients
159
40
30
20
10
pvalue= 1
0
0.02
0.04
0.06
Observed frequency

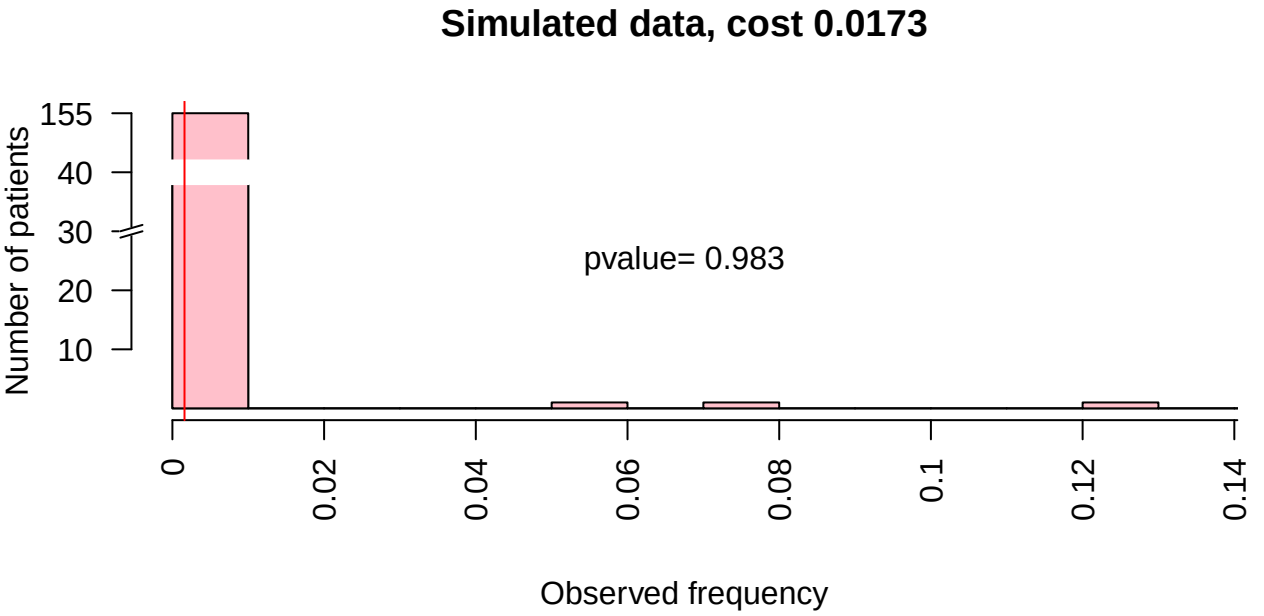

Single−SFS, site 93
Number of patients
137
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
Observed frequency

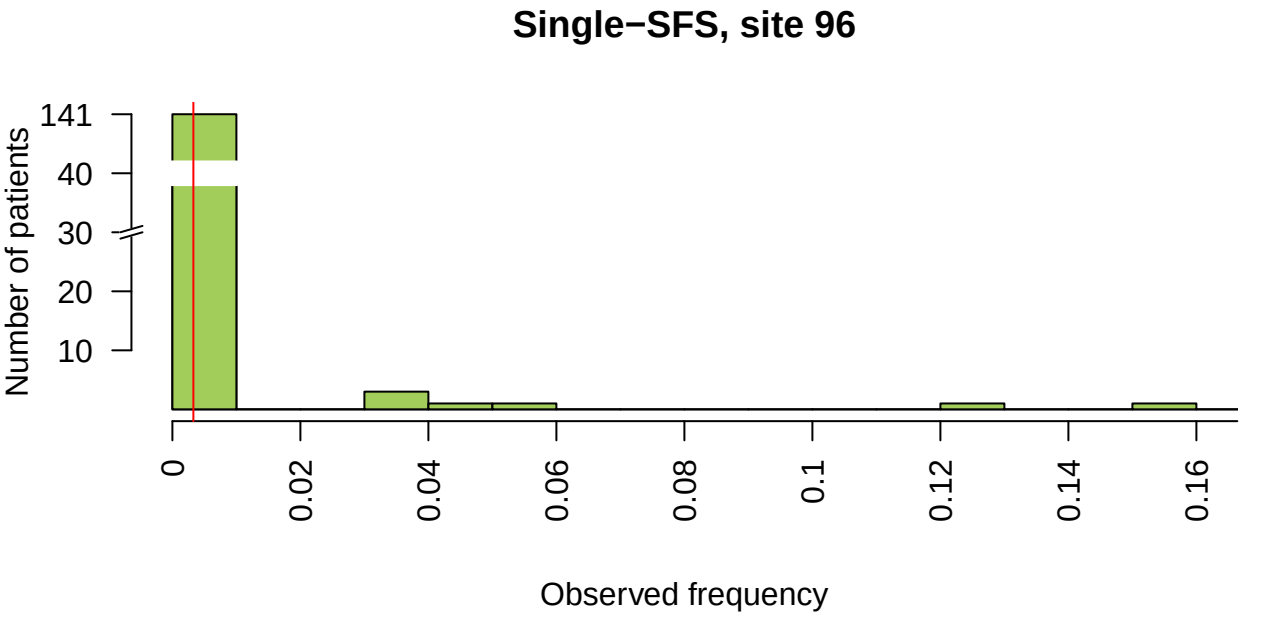

Simulated data, cost 0.0041
Number of patients
144
40
30
20
10
pvalue= 0.035
0
0.02
0.04
0.06
0.08
0.1
Observed frequency

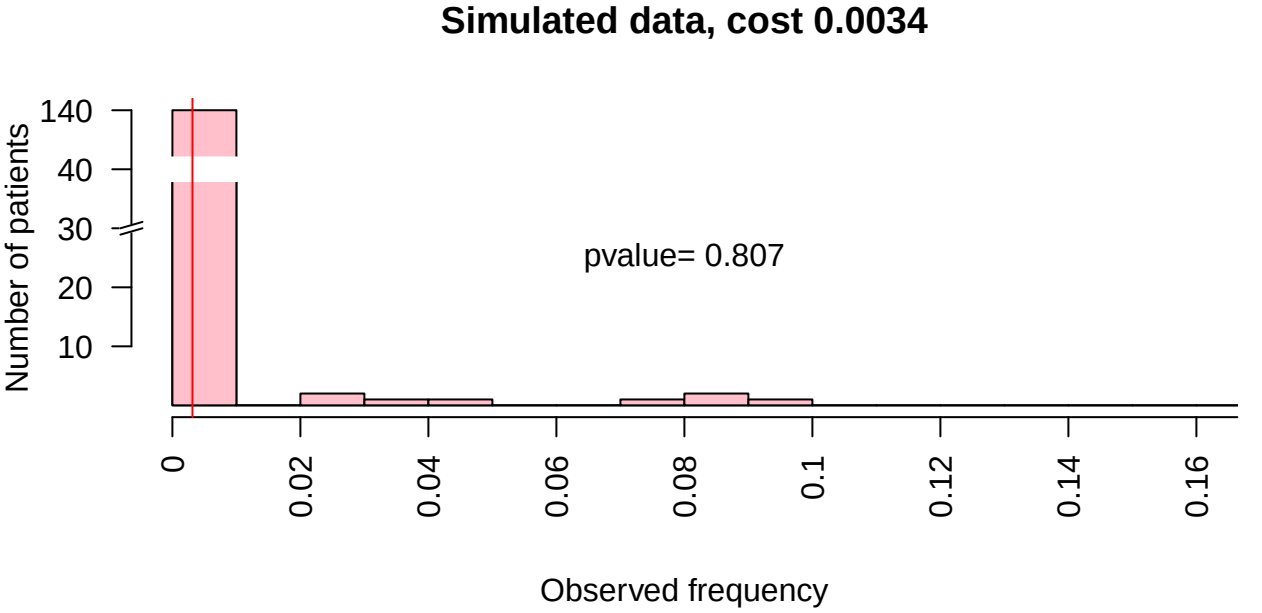

Single−SFS, site 94
Number of patients
153
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
0.24
0.26
0.28
Observed frequency

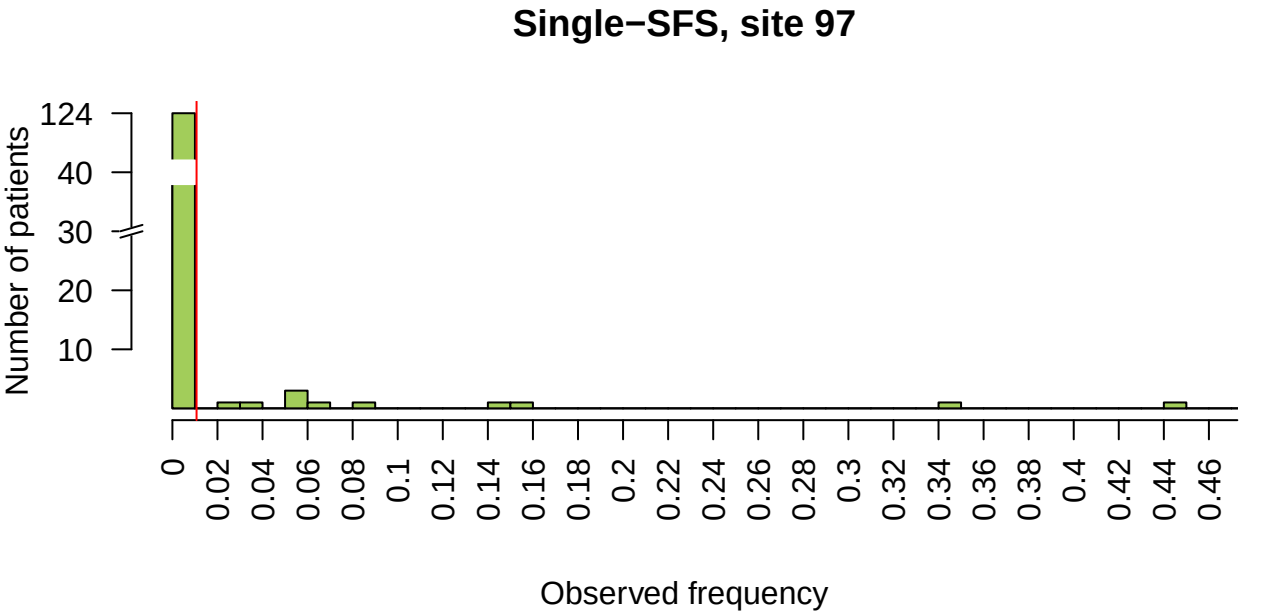

Simulated data, cost 0.0127
Number of patients
154
40
30
20
10
pvalue= 0.732
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
0.24
0.26
0.28
Observed frequency

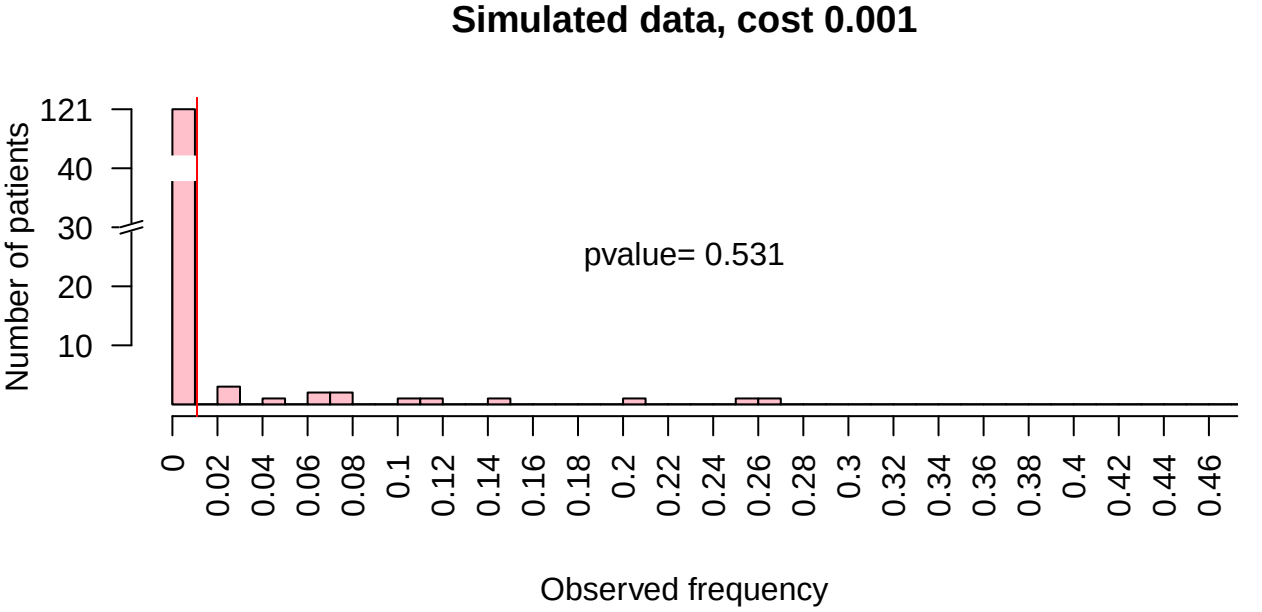

Single−SFS, site 95
Number of patients
155
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
Observed frequency

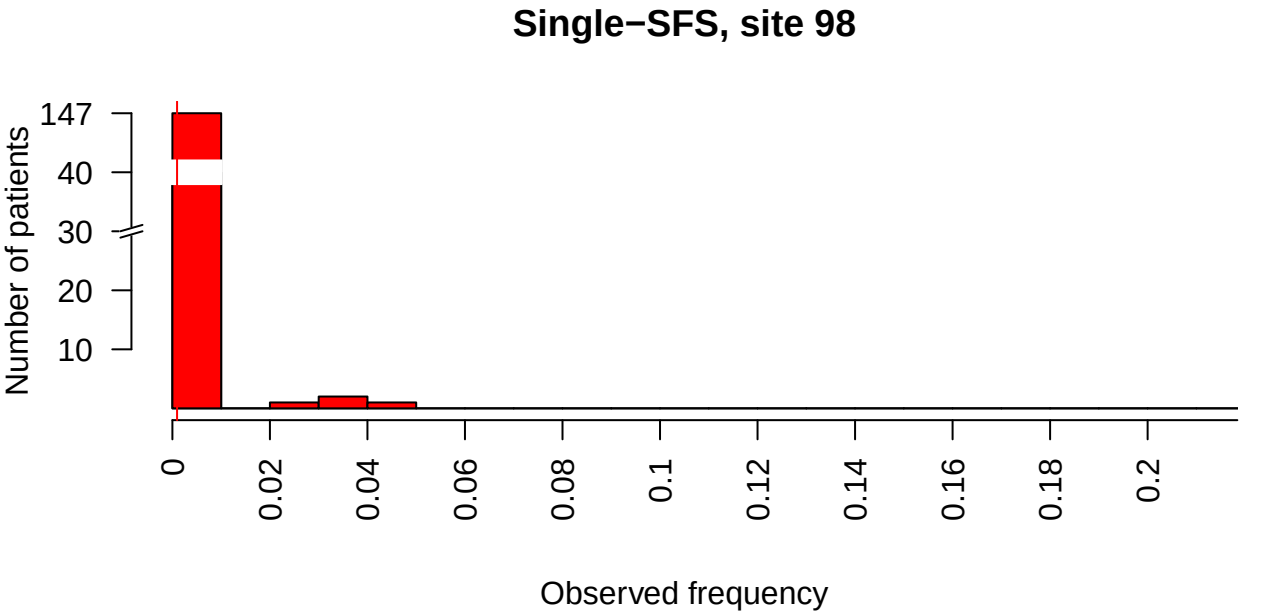

Simulated data, cost 0.0173
Number of patients
155
40
30
20
10
pvalue= 0.983
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
Observed frequency

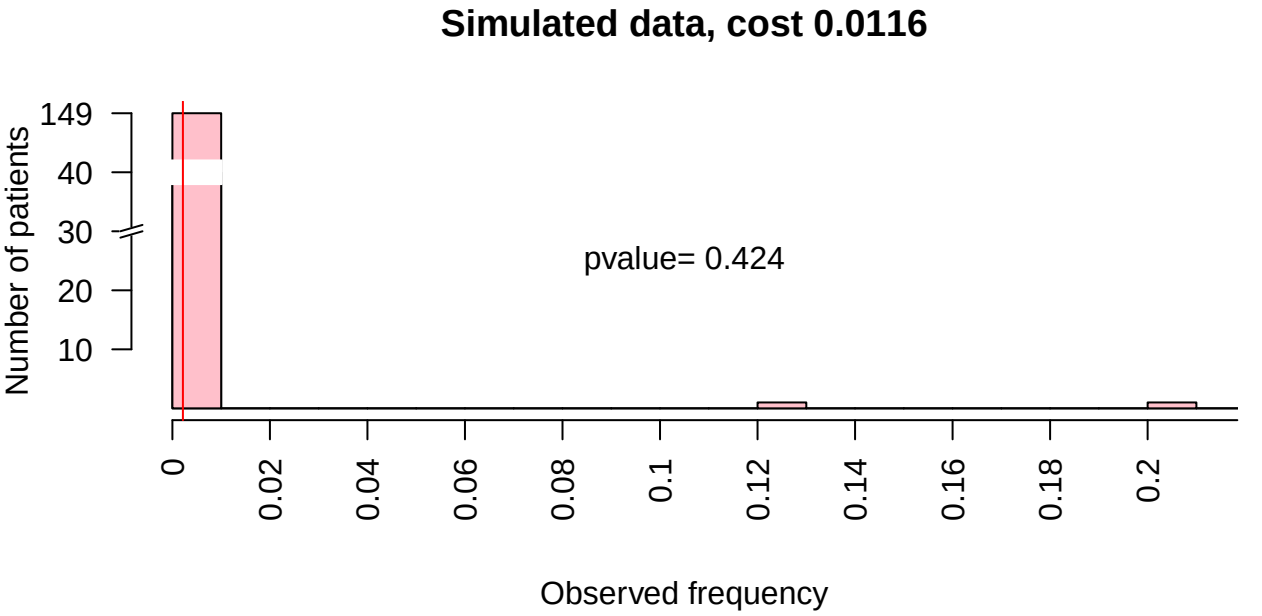

Single−SFS, site 96
Number of patients
141
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
Observed frequency

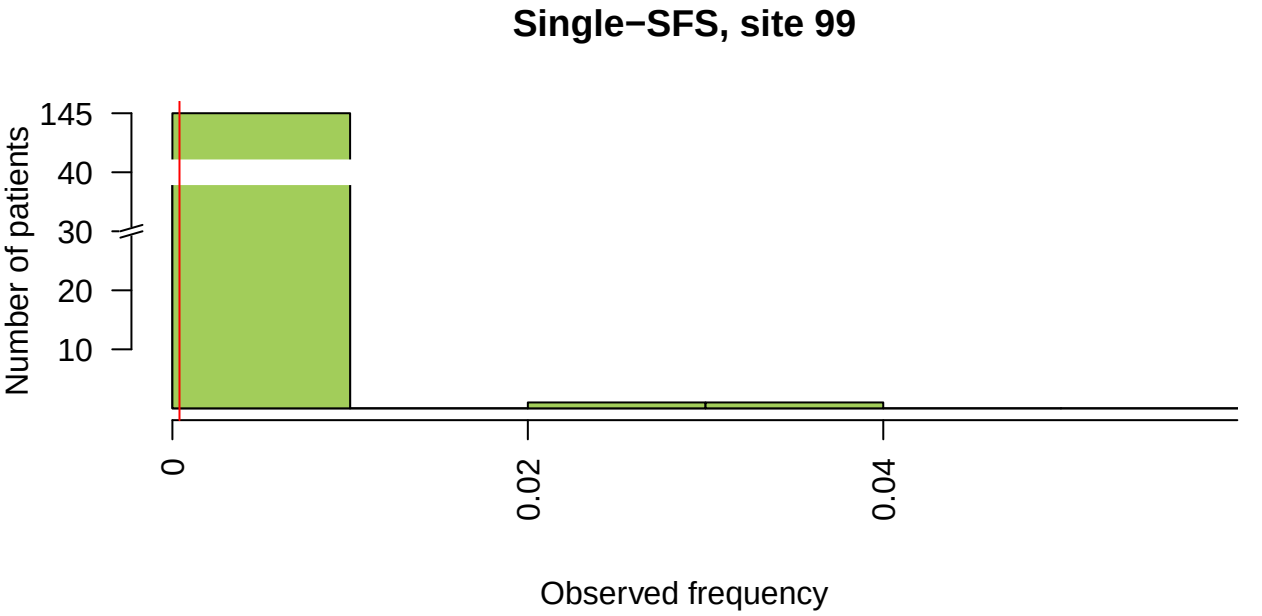

Simulated data, cost 0.0034
Number of patients
140
40
30
20
10
pvalue= 0.807
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
Observed frequency

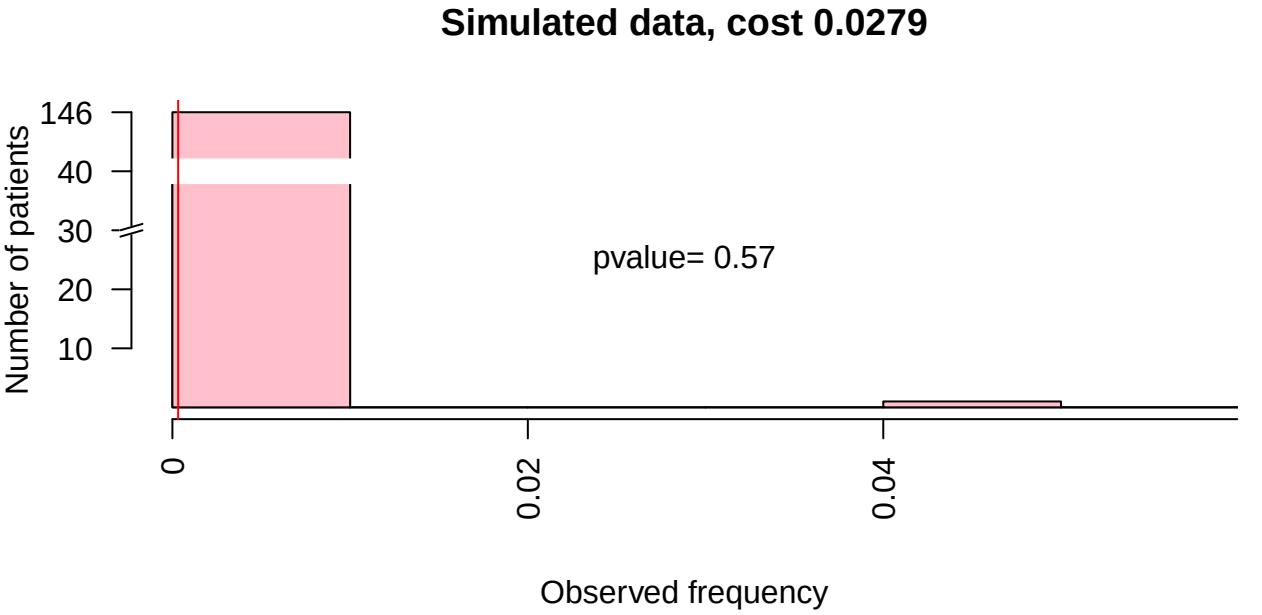

Single−SFS, site 97
Number of patients
124
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
0.24
0.26
0.28
0.3
0.32
0.34
0.36
0.38
0.4
0.42
0.44
0.46
Observed frequency

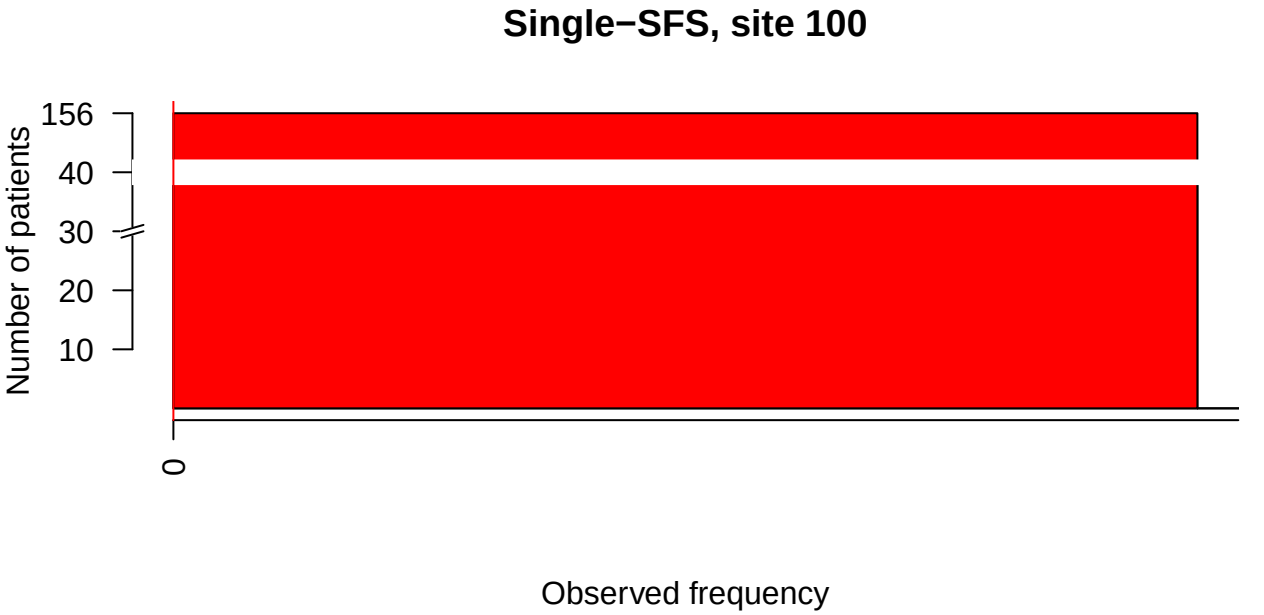

Simulated data, cost 0.001
Number of patients
121
40
30
20
10
pvalue= 0.531
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
0.24
0.26
0.28
0.3
0.32
0.34
0.36
0.38
0.4
0.42
0.44
0.46
Observed frequency

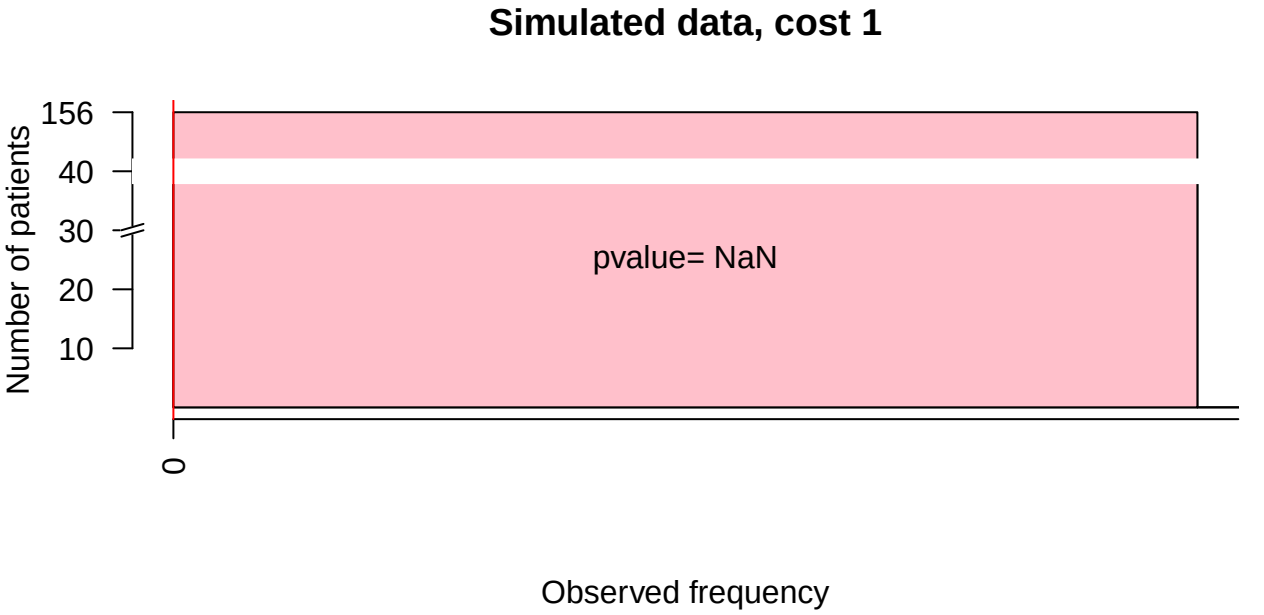

Single−SFS, site 98
Number of patients
147
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
Observed frequency

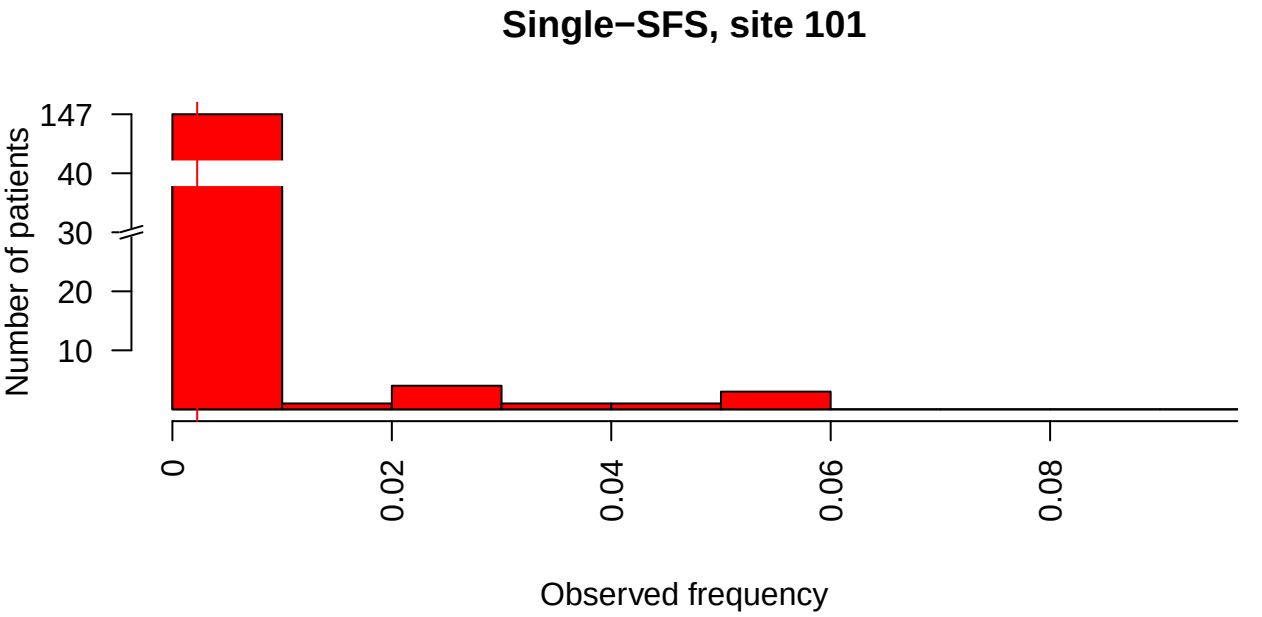

Simulated data, cost 0.0116
Number of patients
149
40
30
20
10
pvalue= 0.424
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
Observed frequency

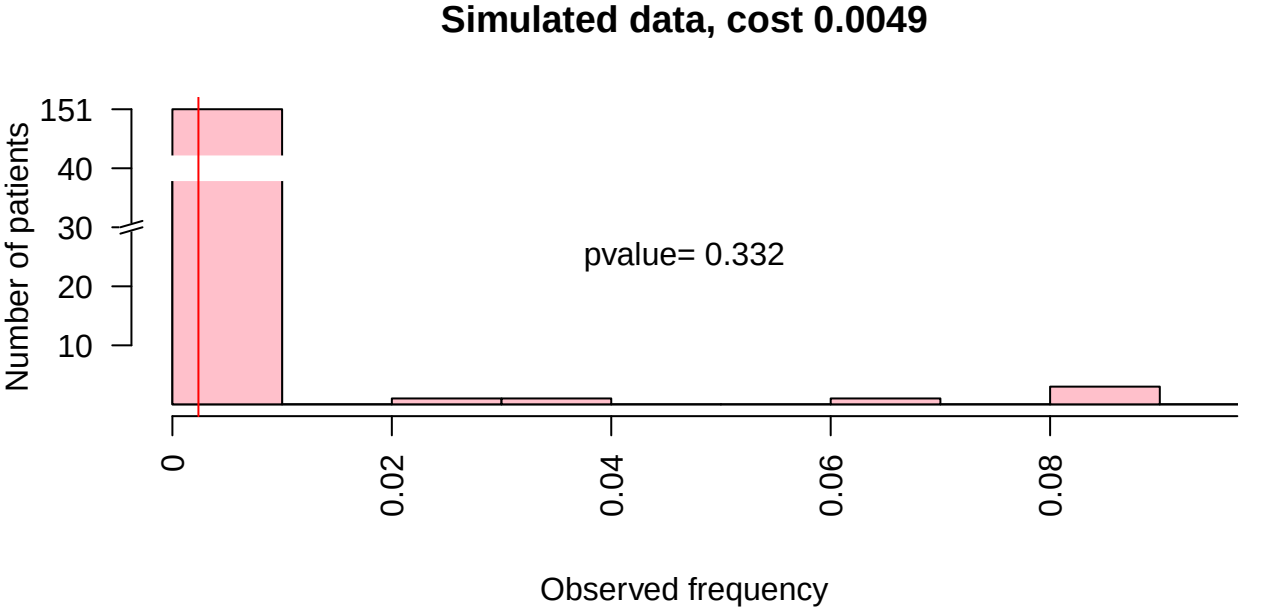

Single−SFS, site 99
Number of patients
145
40
30
20
10
0
0.02
0.04
Observed frequency

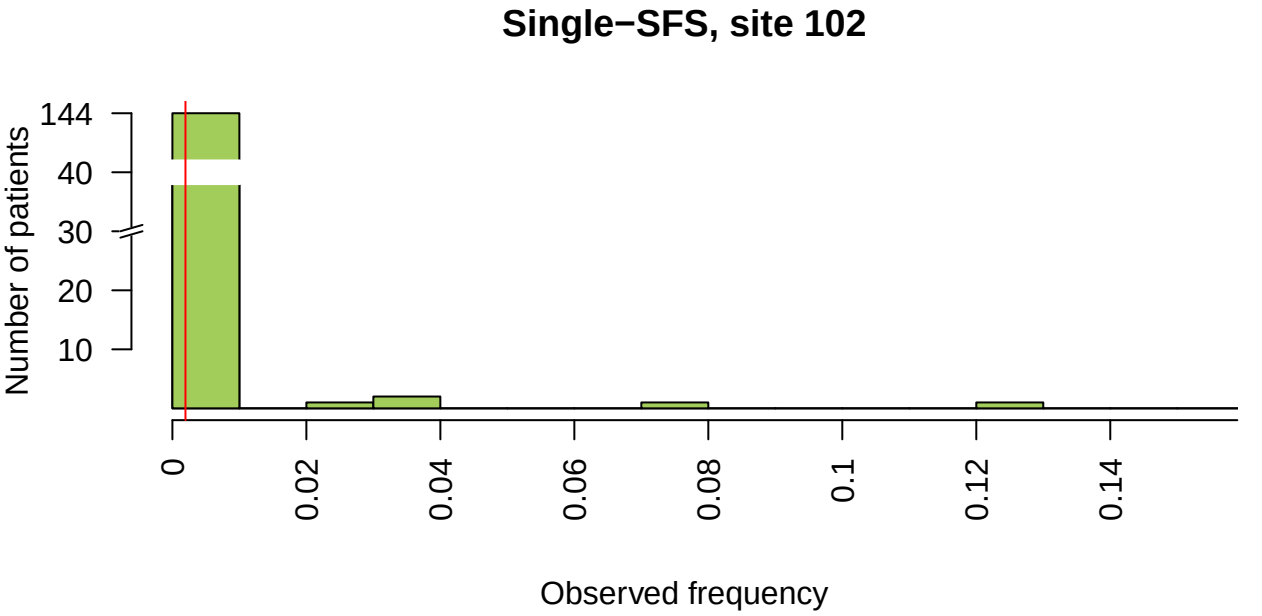

Simulated data, cost 0.0279
Number of patients
146
40
30
20
10
pvalue= 0.57
0
0.02
0.04
Observed frequency

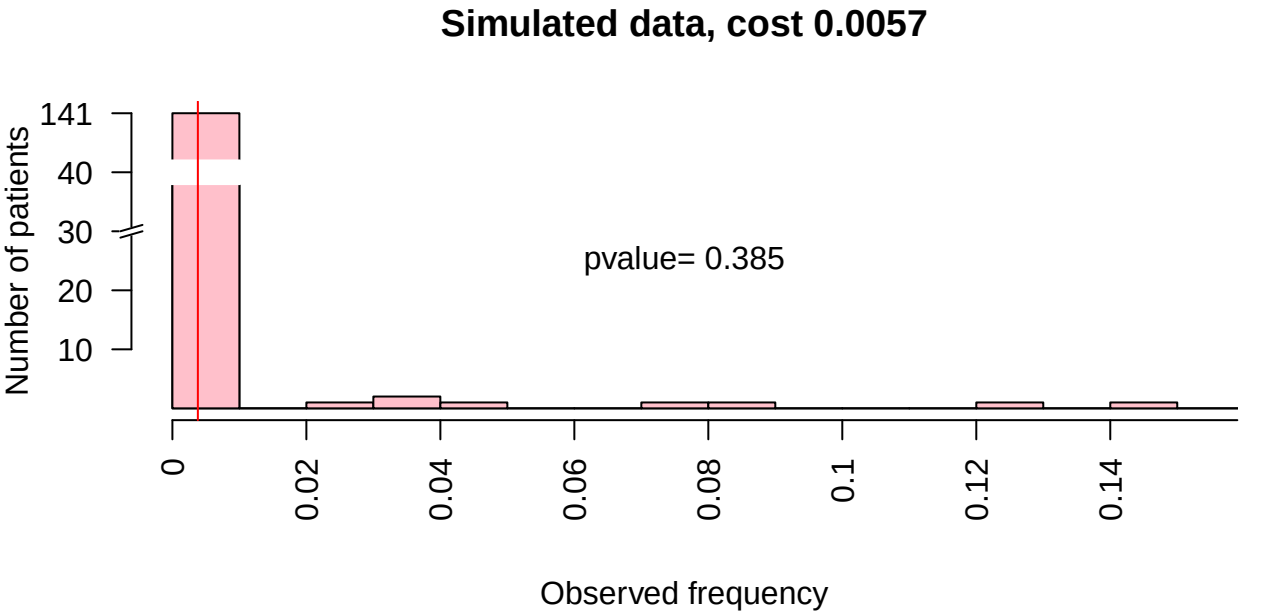

Single−SFS, site 100
Number of patients
156
40
30
20
10
0
Observed frequency

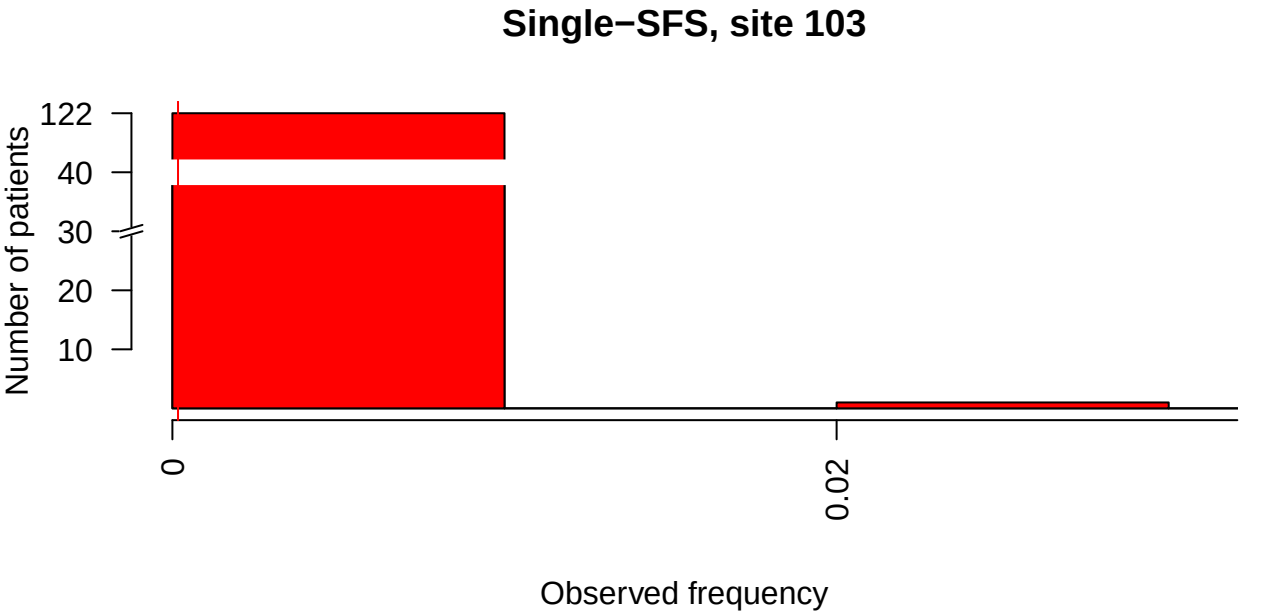

Simulated data, cost 1
Number of patients
156
40
30
20
10
0
pvalue= NaN
Observed frequency

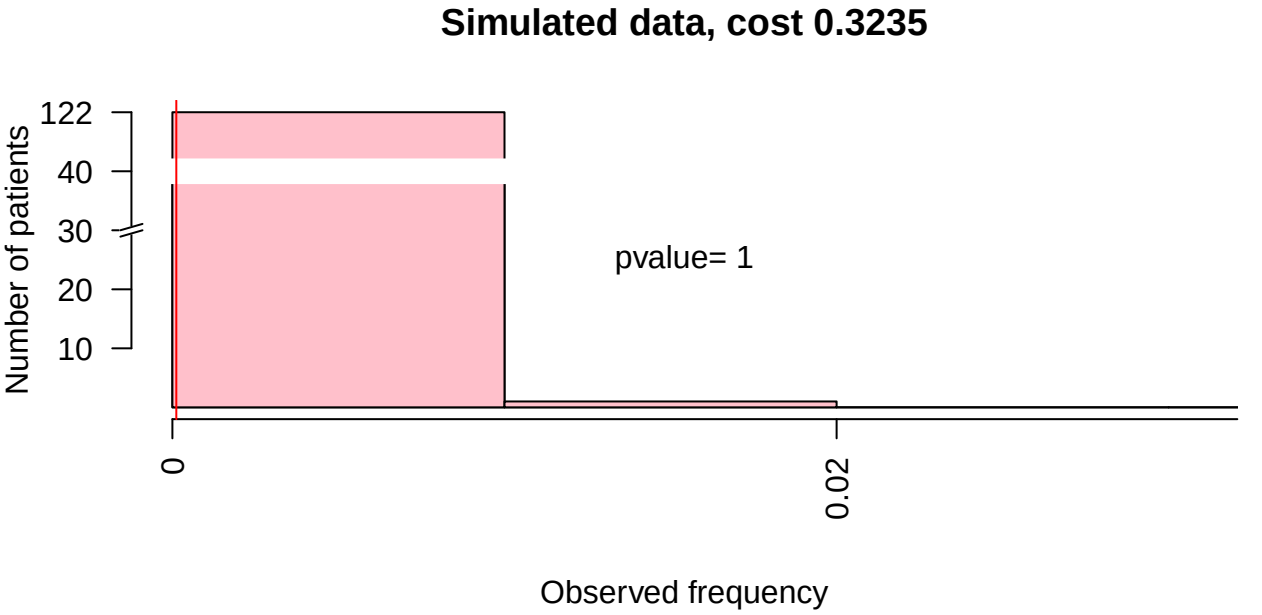

Single−SFS, site 101
Number of patients
147
40
30
20
10
0
0.02
0.04
0.06
0.08
Observed frequency

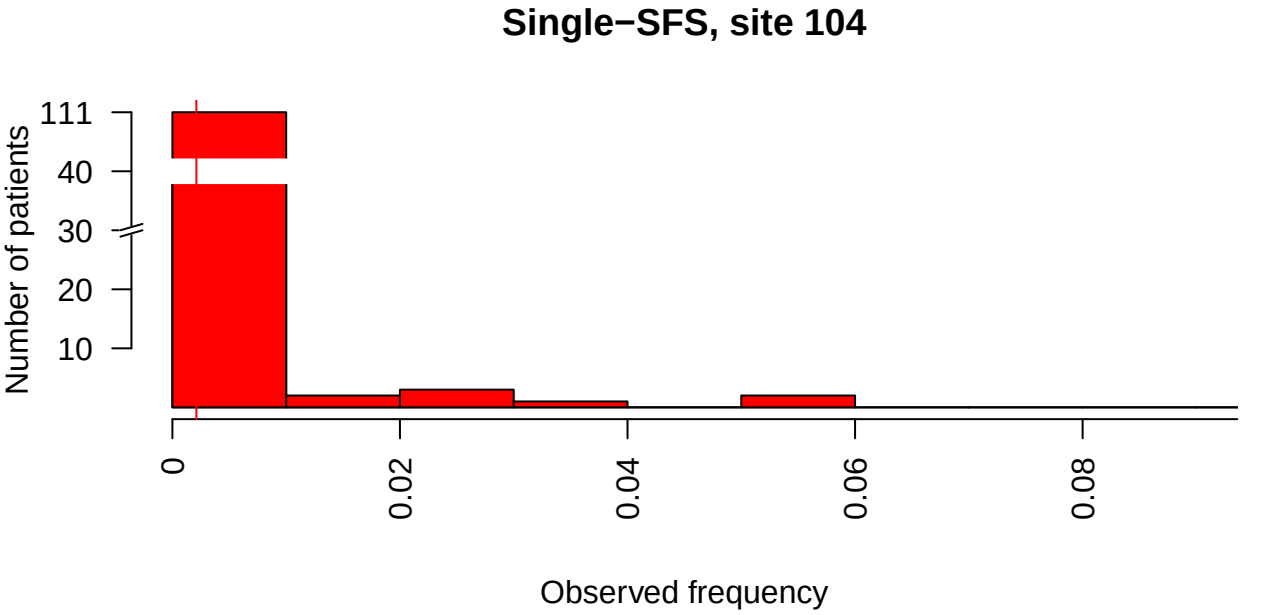

Simulated data, cost 0.0049
Number of patients
151
40
30
20
10
pvalue= 0.332
0
0.02
0.04
0.06
0.08
Observed frequency

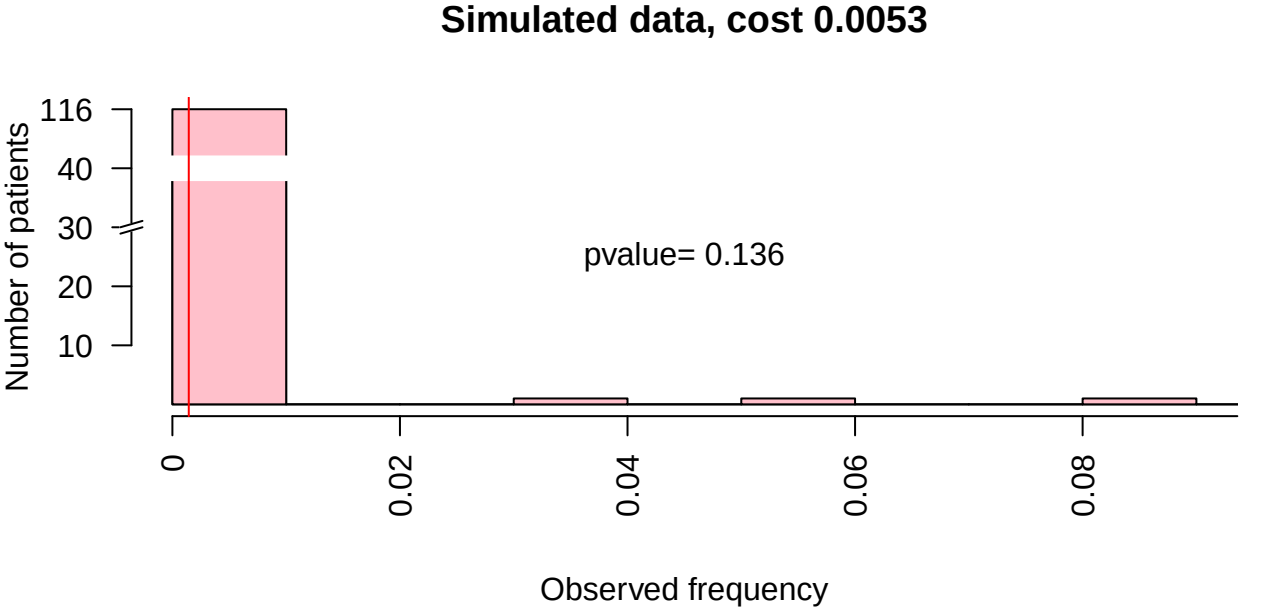

Single−SFS, site 102
Number of patients
144
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
Observed frequency

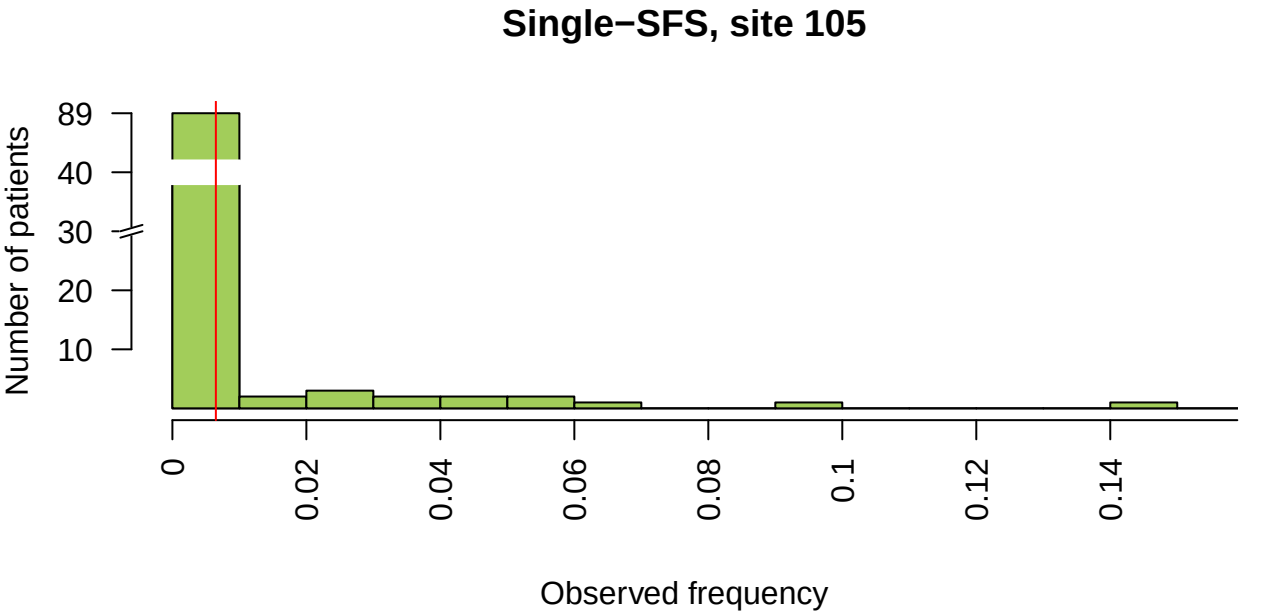

Simulated data, cost 0.0057
Number of patients
141
40
30
20
10
pvalue= 0.385
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
Observed frequency

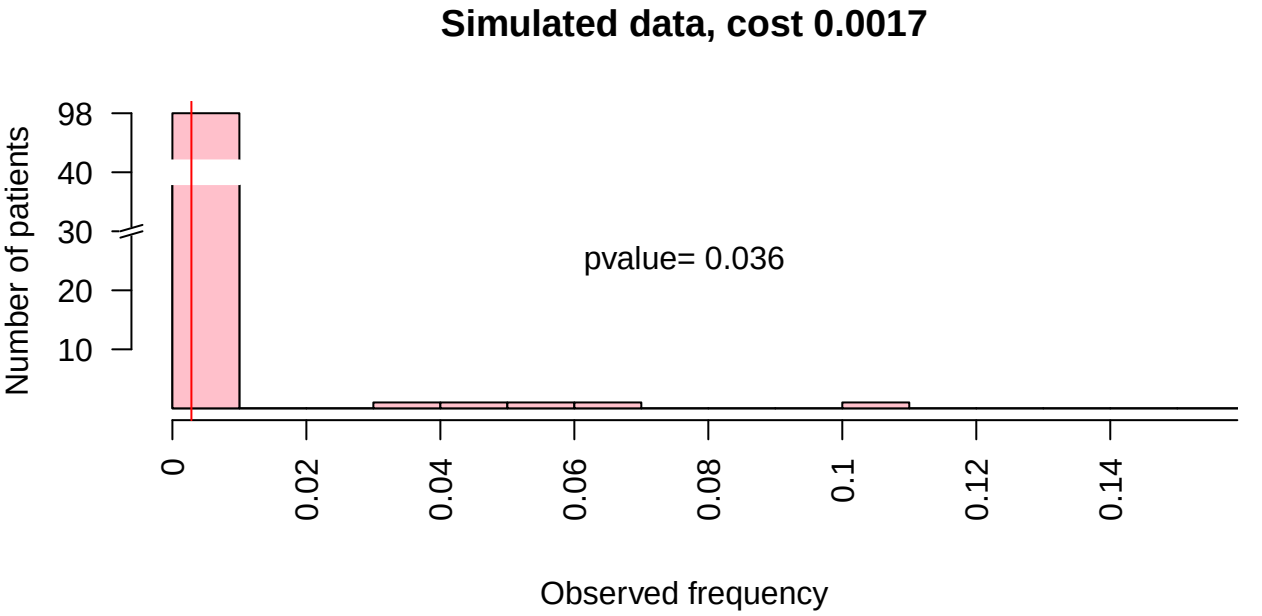

Single−SFS, site 103
Number of patients
122
40
30
20
10
0
0.02
Observed frequency

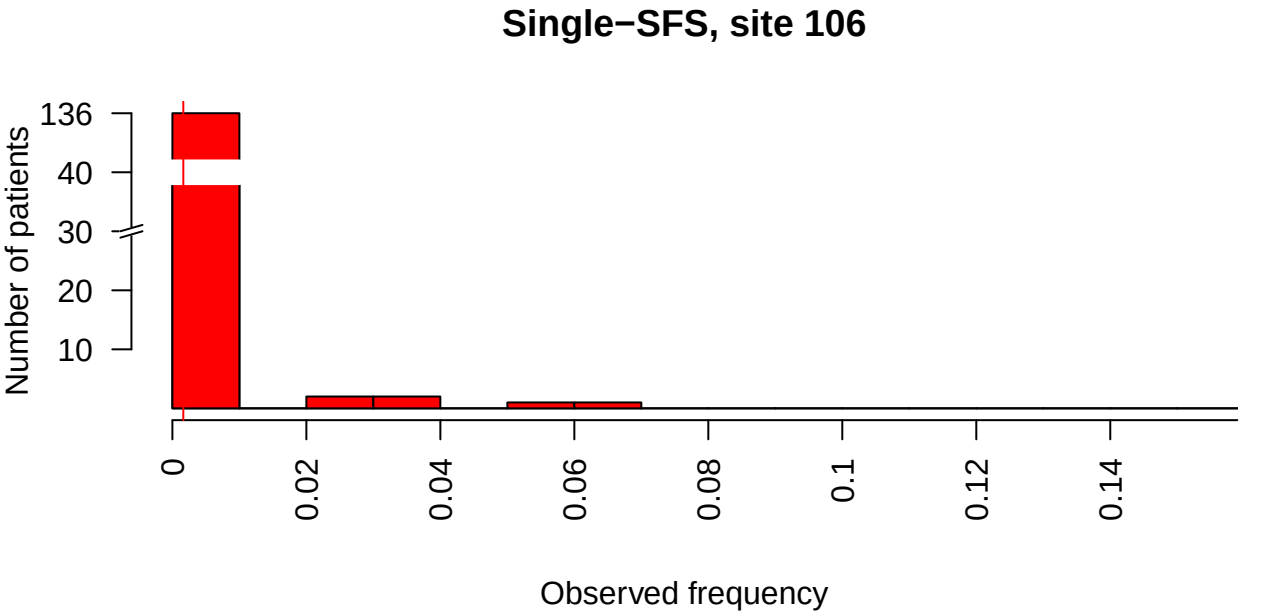

Simulated data, cost 0.3235
Number of patients
122
40
30
20
10
pvalue= 1
0
0.02
Observed frequency

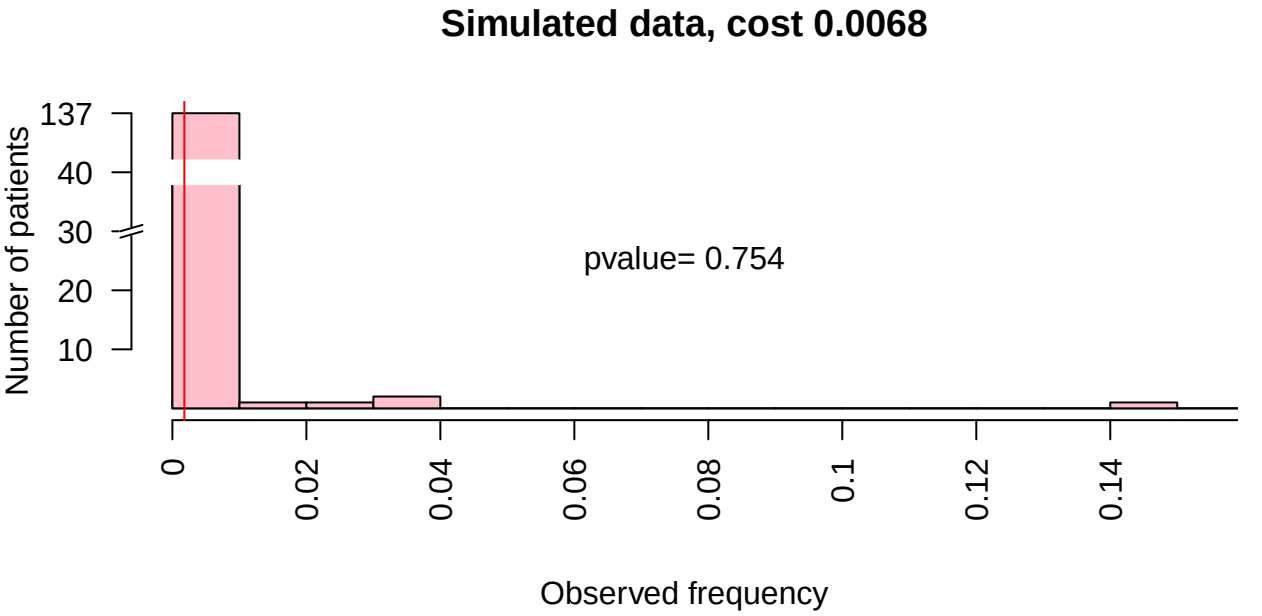

Single−SFS, site 104
Number of patients
111
40
30
20
10
0
0.02
0.04
0.06
0.08
Observed frequency

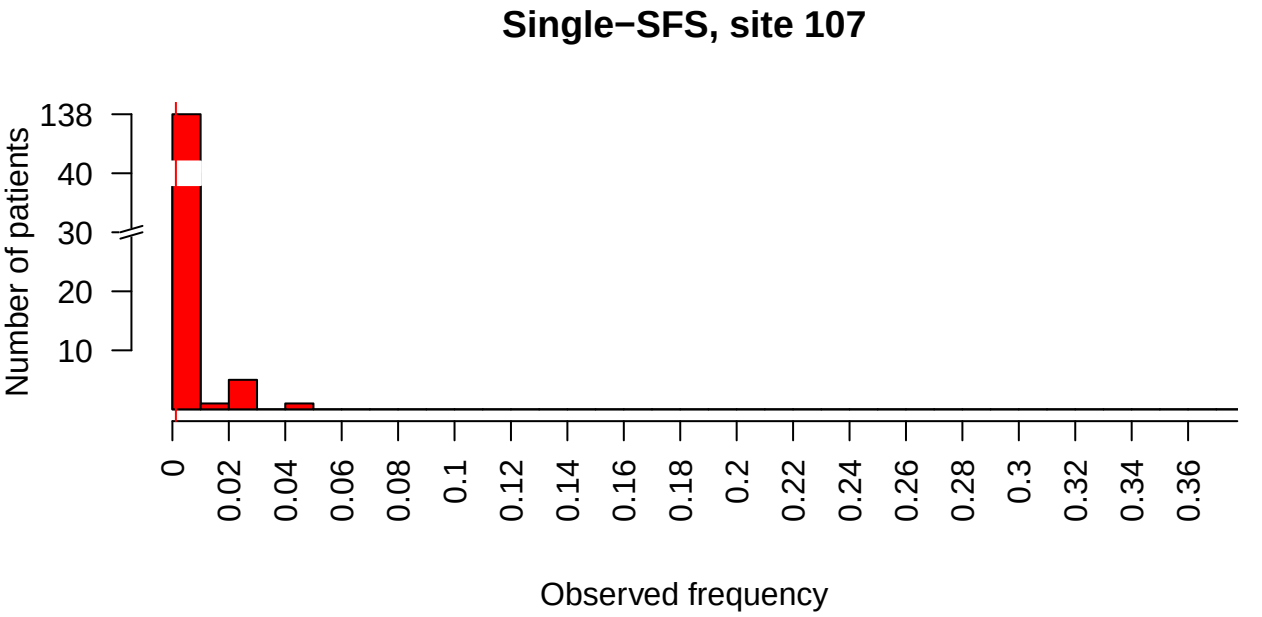

Simulated data, cost 0.0053
Number of patients
116
40
30
20
10
pvalue= 0.136
0
0.02
0.04
0.06
0.08
Observed frequency

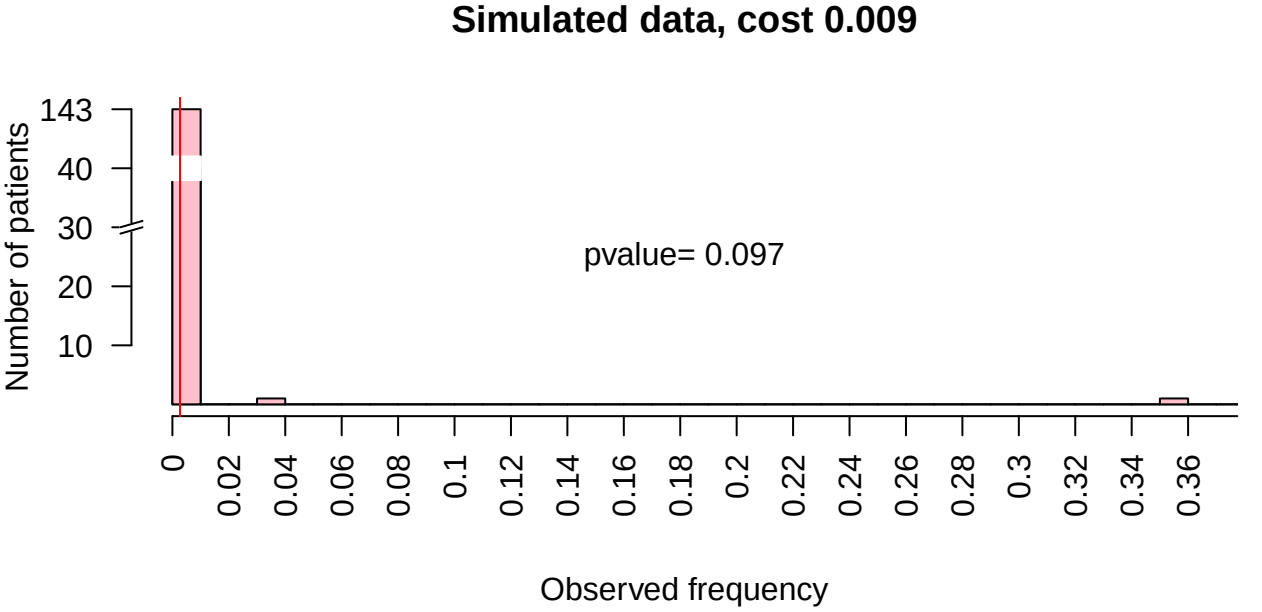

Single−SFS, site 105
Number of patients
89
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
Observed frequency

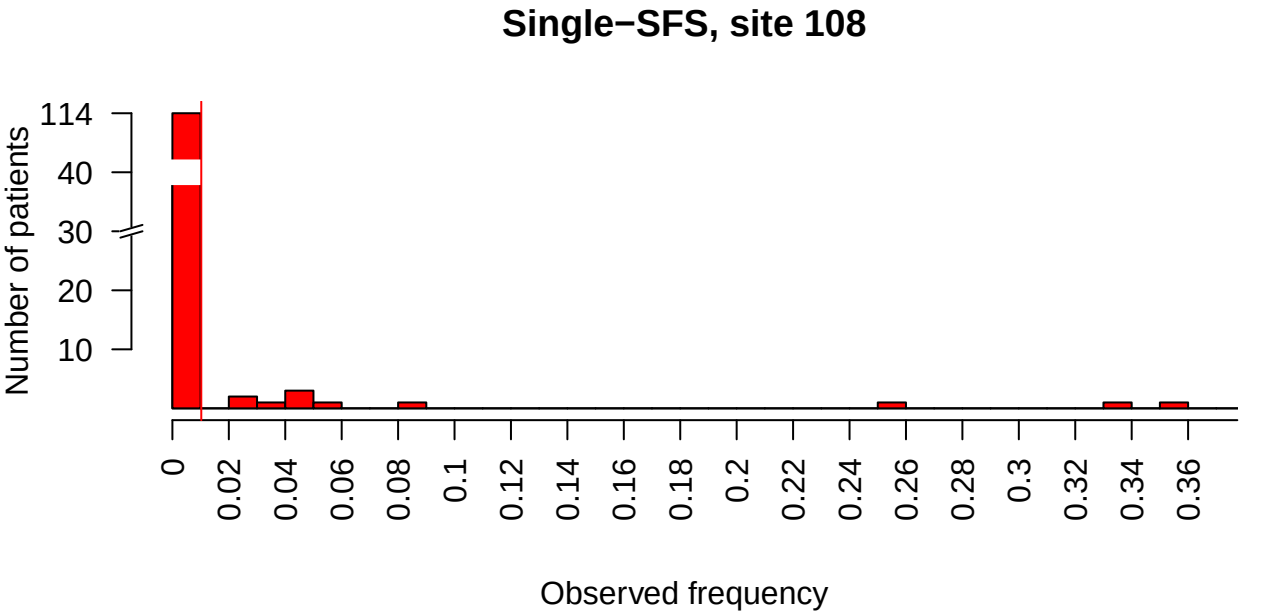

Simulated data, cost 0.0017
Number of patients
98
40
30
20
10
pvalue= 0.036
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
Observed frequency

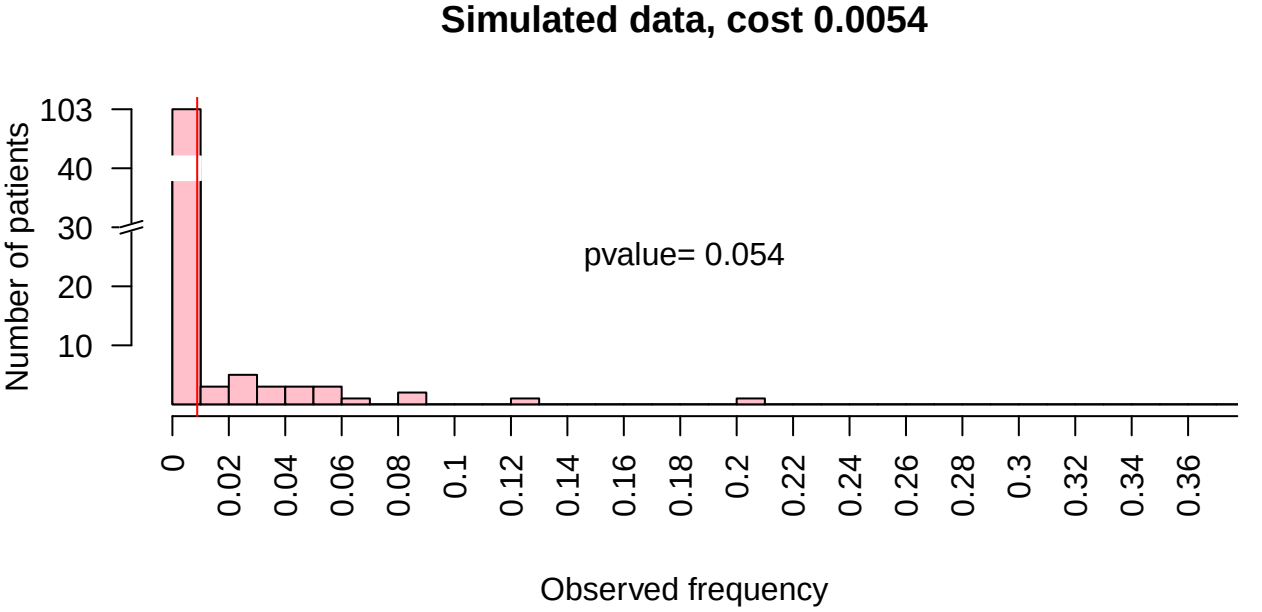

Single−SFS, site 106
Number of patients
136
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
Observed frequency

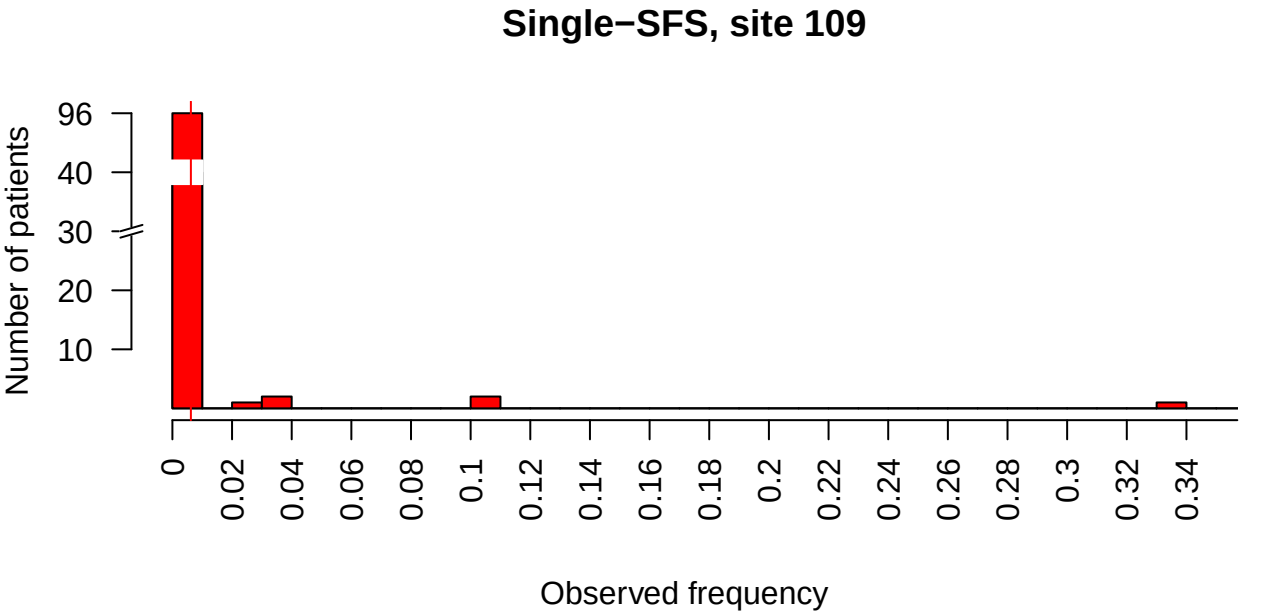

Simulated data, cost 0.0068
Number of patients
137
40
30
20
10
pvalue= 0.754
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
Observed frequency

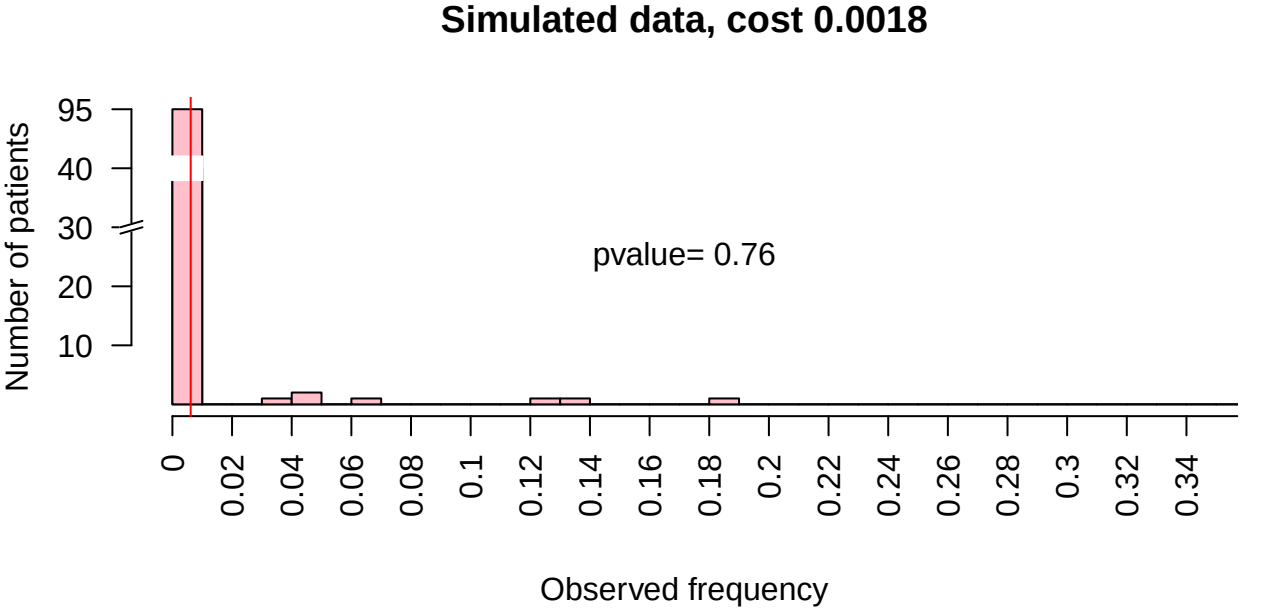

Single−SFS, site 107
Number of patients
138
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
0.24
0.26
0.28
0.3
0.32
0.34
0.36
Observed frequency

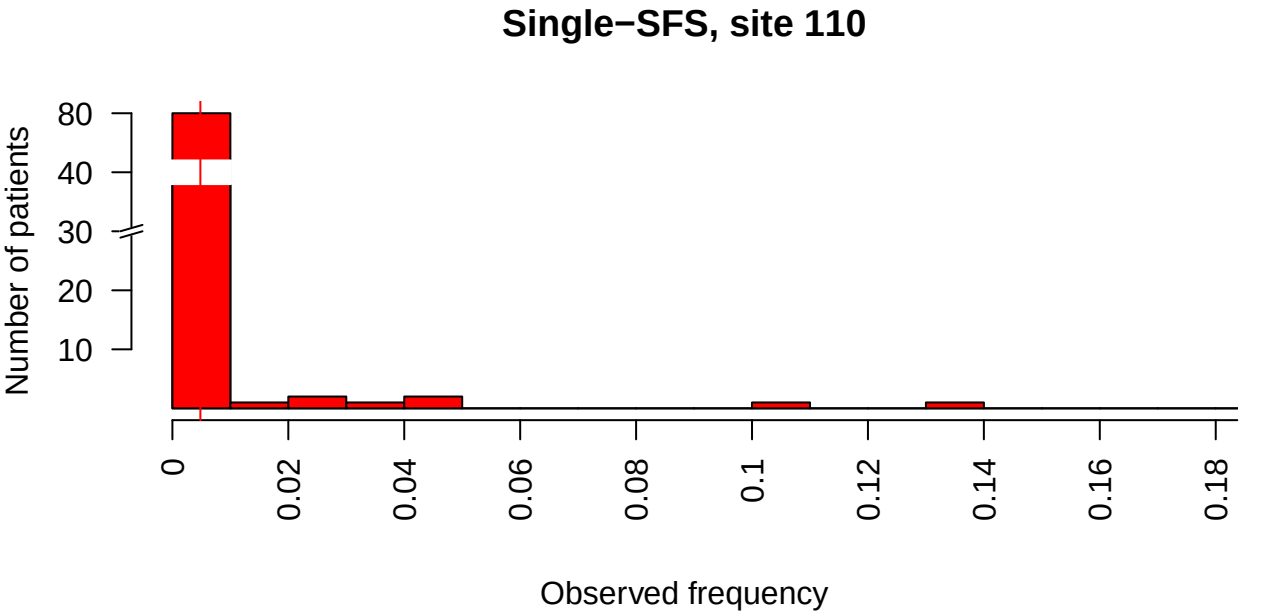

Simulated data, cost 0.009
Number of patients
143
40
30
20
10
pvalue= 0.097
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
0.24
0.26
0.28
0.3
0.32
0.34
0.36
Observed frequency

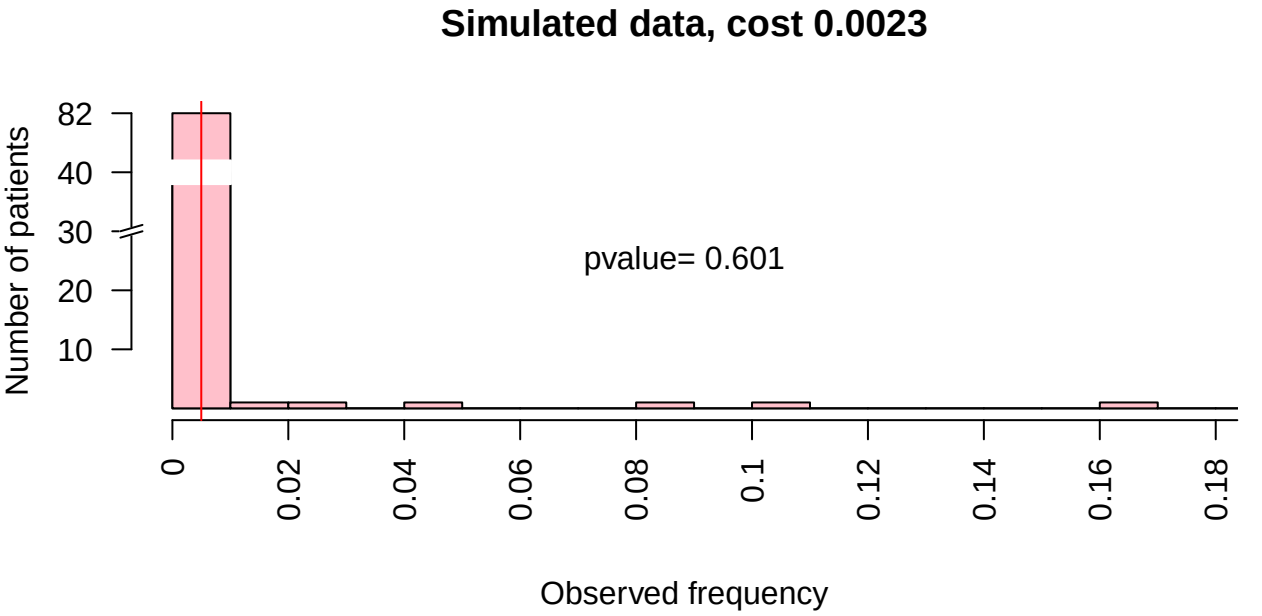

Single−SFS, site 108
Number of patients
114
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
0.24
0.26
0.28
0.3
0.32
0.34
0.36
Observed frequency

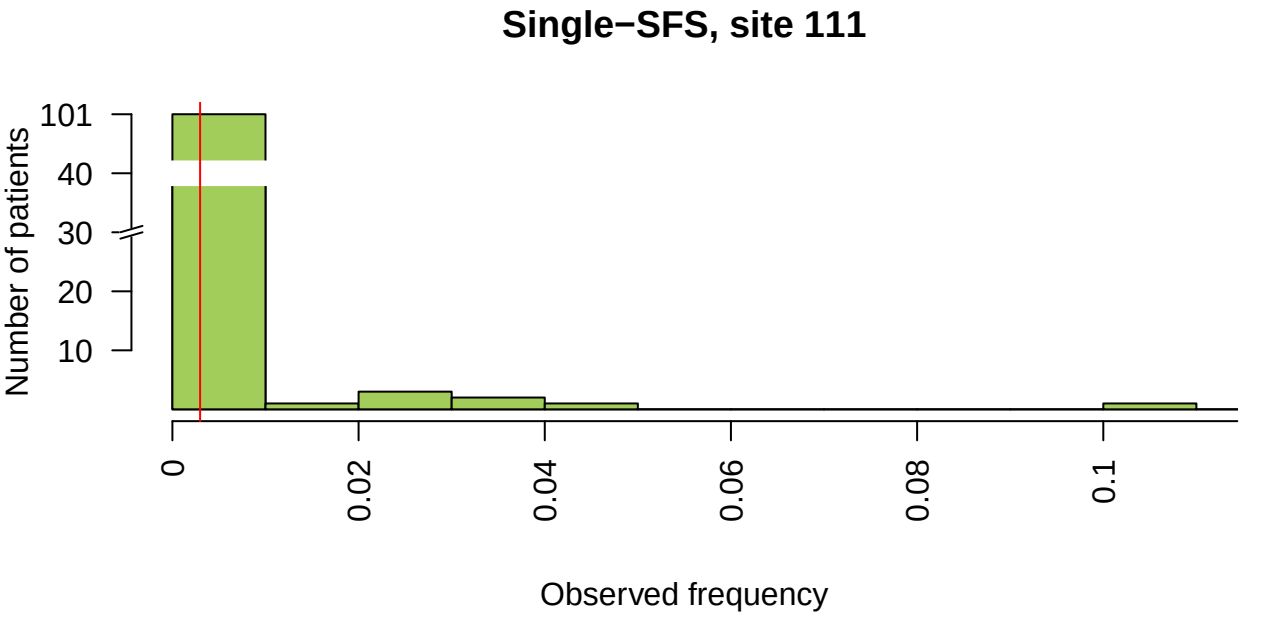

Simulated data, cost 0.0054
Number of patients
103
40
30
20
10
pvalue= 0.054
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
0.24
0.26
0.28
0.3
0.32
0.34
0.36
Observed frequency

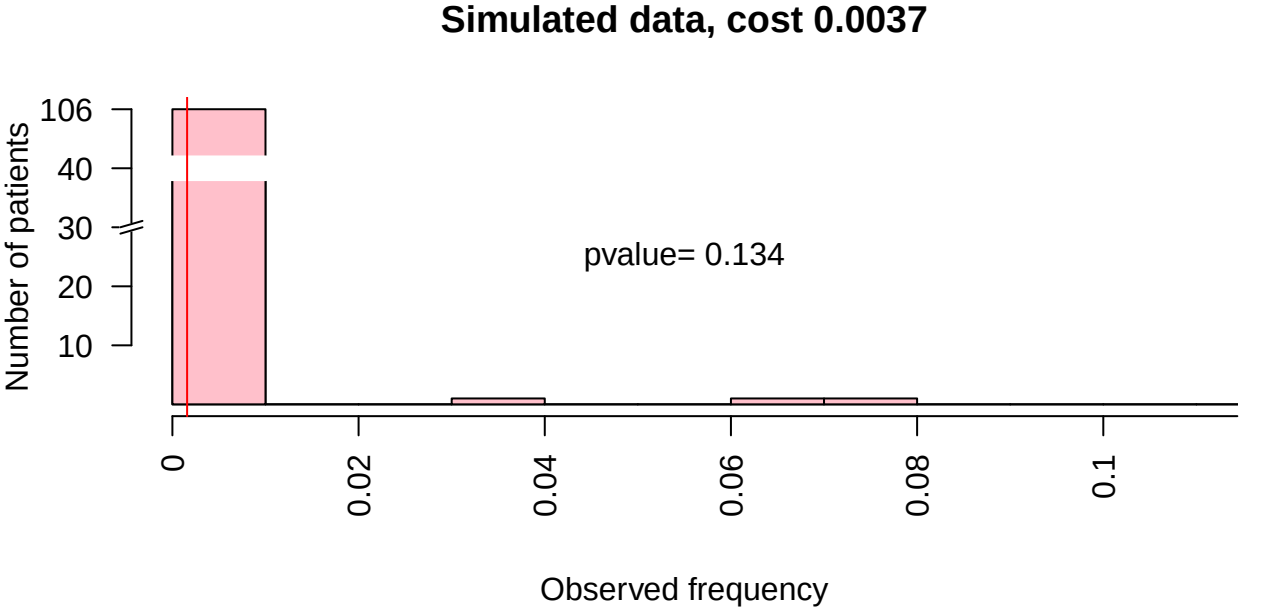

Single−SFS, site 109
Number of patients
96
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
0.24
0.26
0.28
0.3
0.32
0.34
Observed frequency

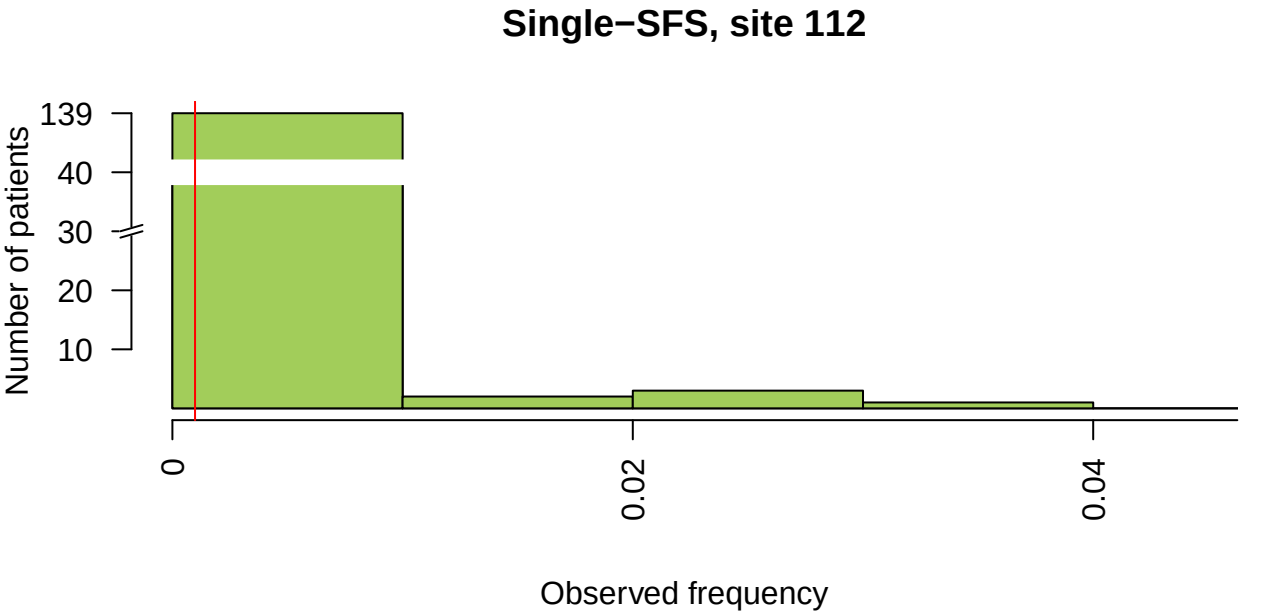

Simulated data, cost 0.0018
Number of patients
95
40
30
20
10
pvalue= 0.76
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
0.24
0.26
0.28
0.3
0.32
0.34
Observed frequency

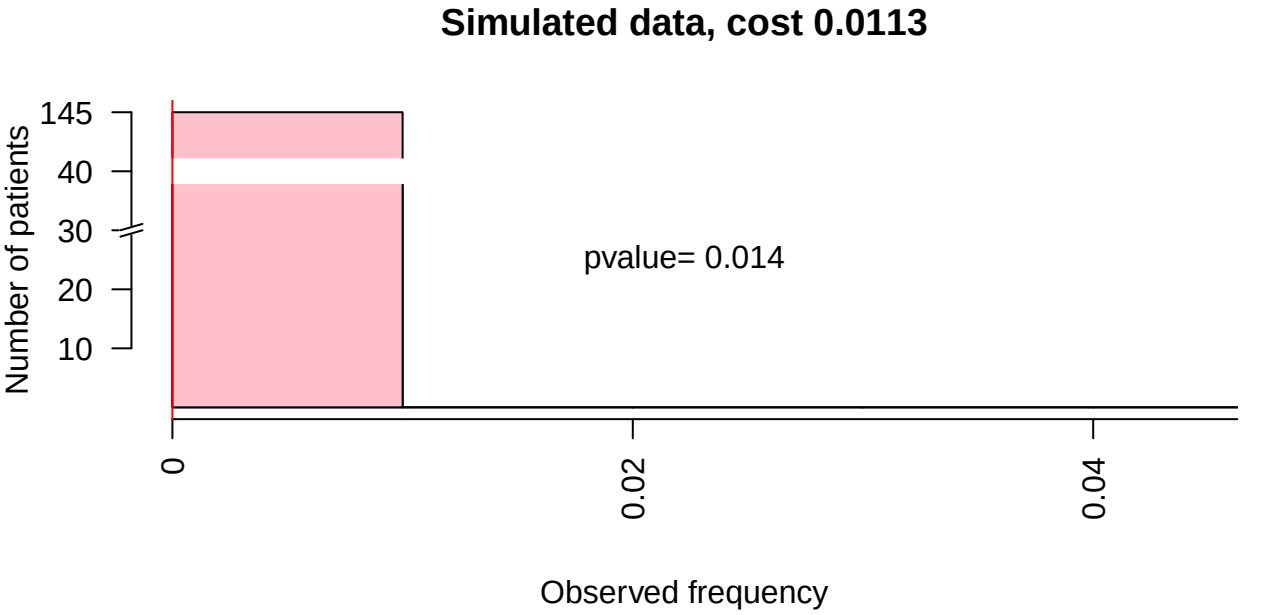

Single−SFS, site 110
Number of patients
80
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
Observed frequency

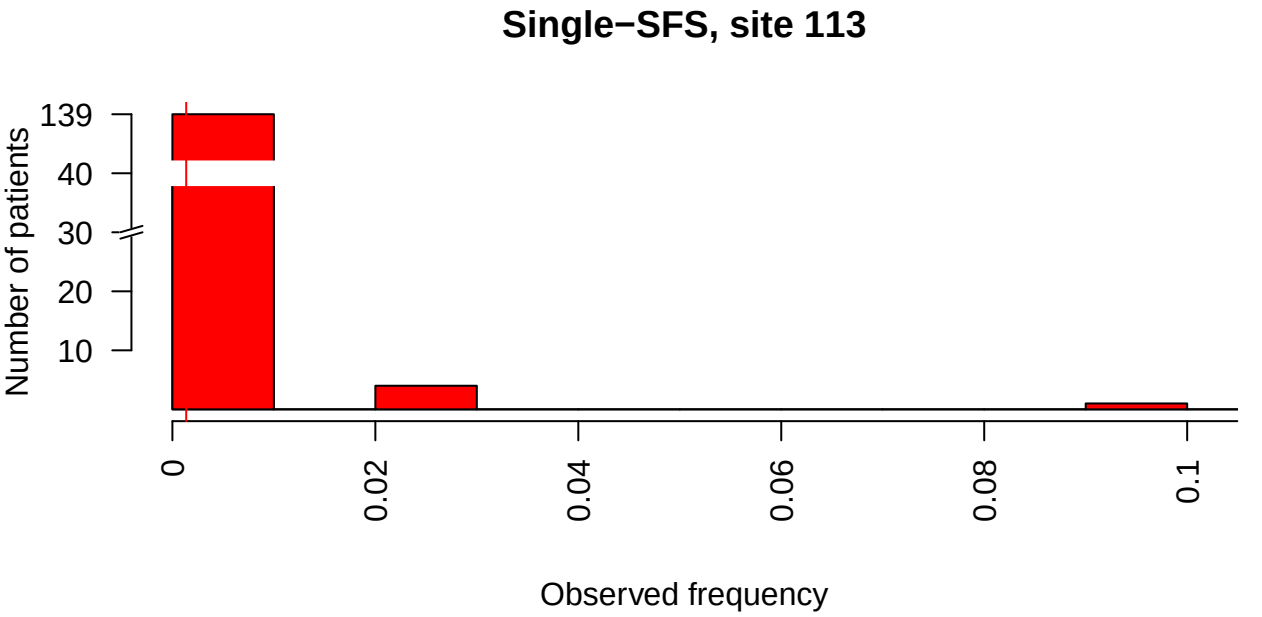

Simulated data, cost 0.0023
Number of patients
82
40
30
20
10
pvalue= 0.601
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
Observed frequency

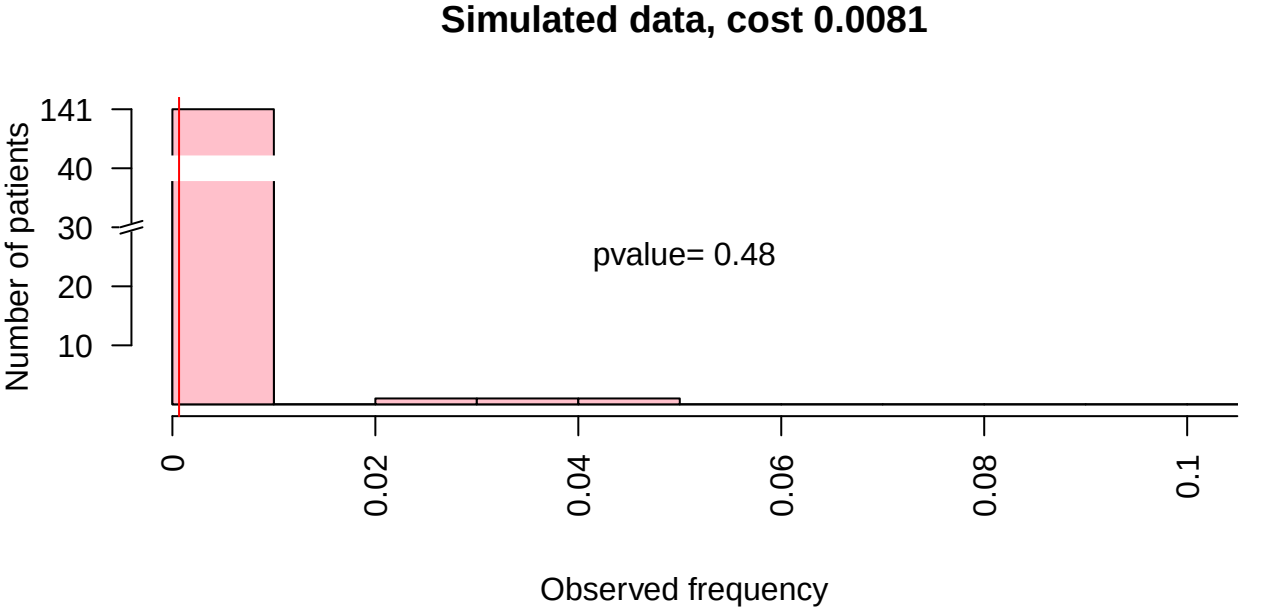

Single−SFS, site 111
Number of patients
101
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
Observed frequency

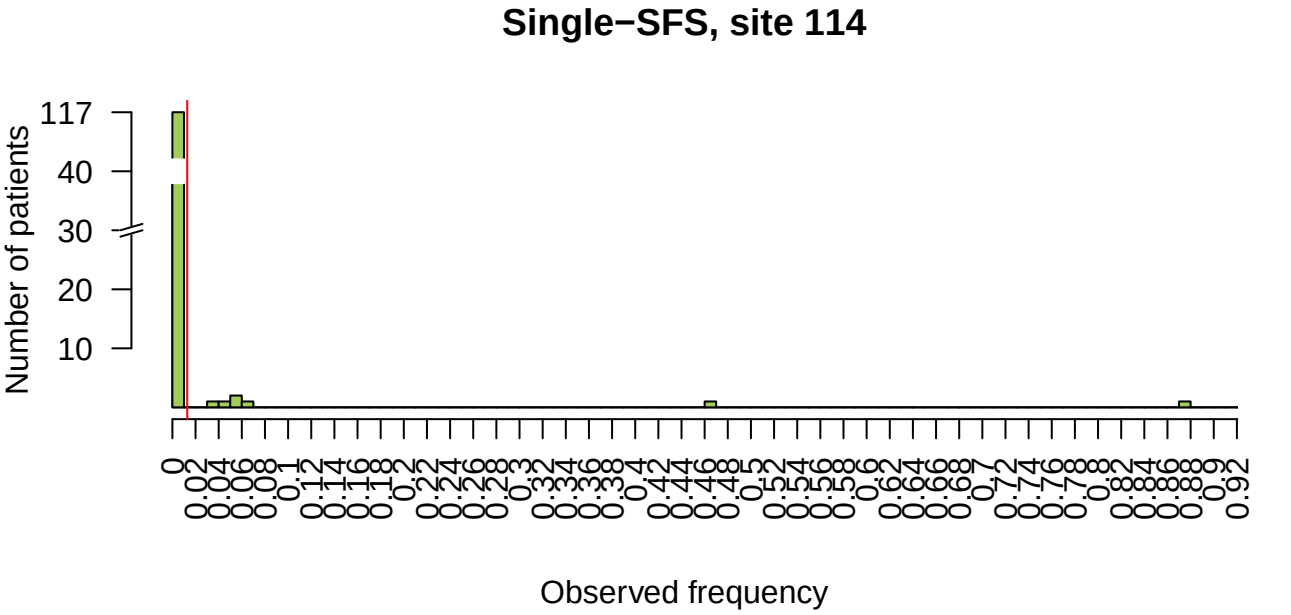

Simulated data, cost 0.0037
Number of patients
106
40
30
20
10
pvalue= 0.134
0
0.02
0.04
0.06
0.08
0.1
Observed frequency

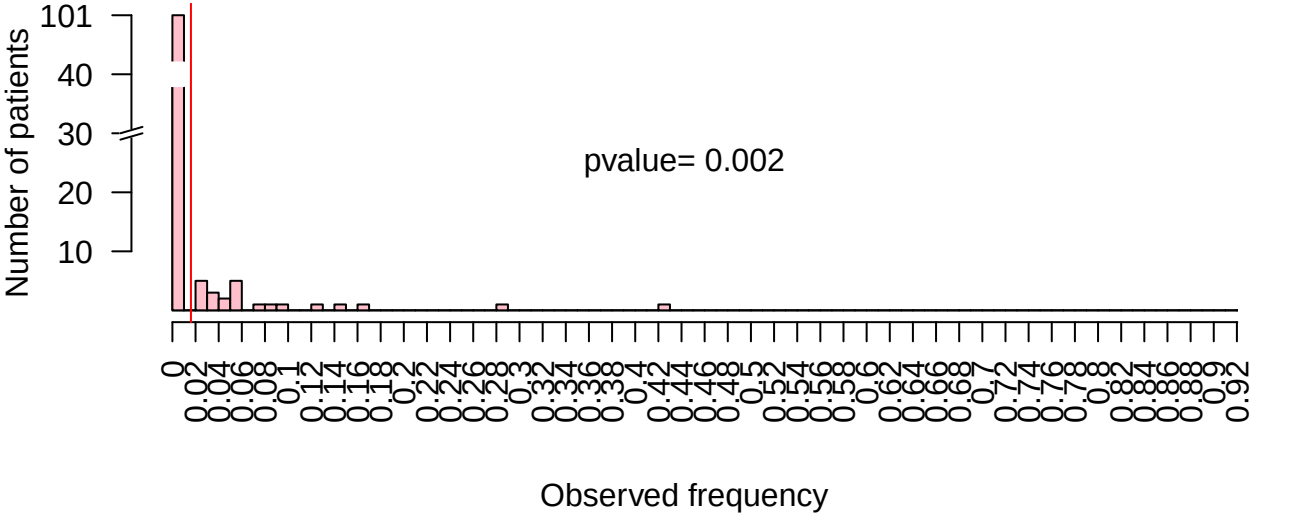

Single−SFS, site 112
Number of patients
139
40
30
20
10
0
0.02
0.04
Observed frequency

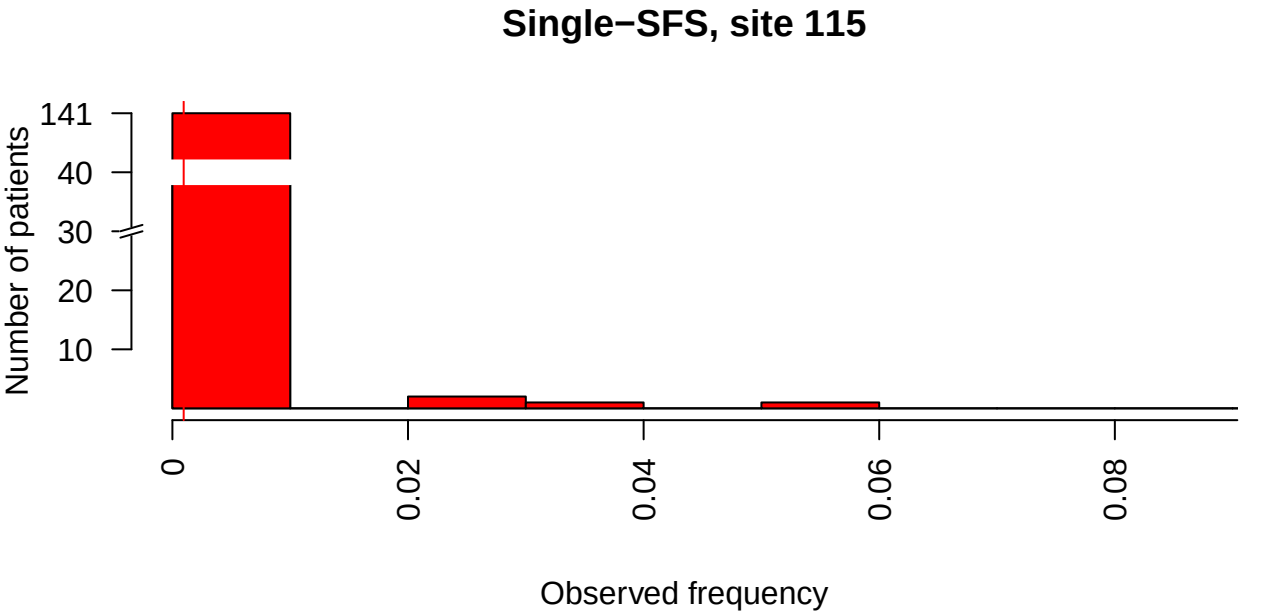

Simulated data, cost 0.0113
Number of patients
145
40
30
20
10
pvalue= 0.014
0
0.02
0.04
Observed frequency

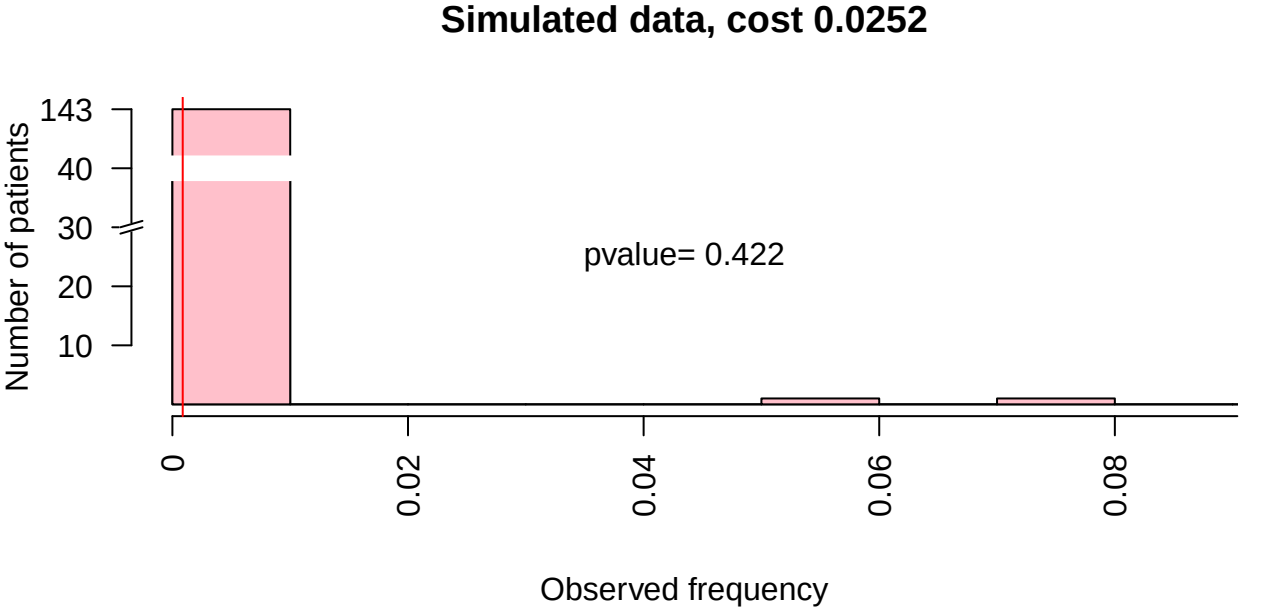

Single−SFS, site 113
Number of patients
139
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
Observed frequency

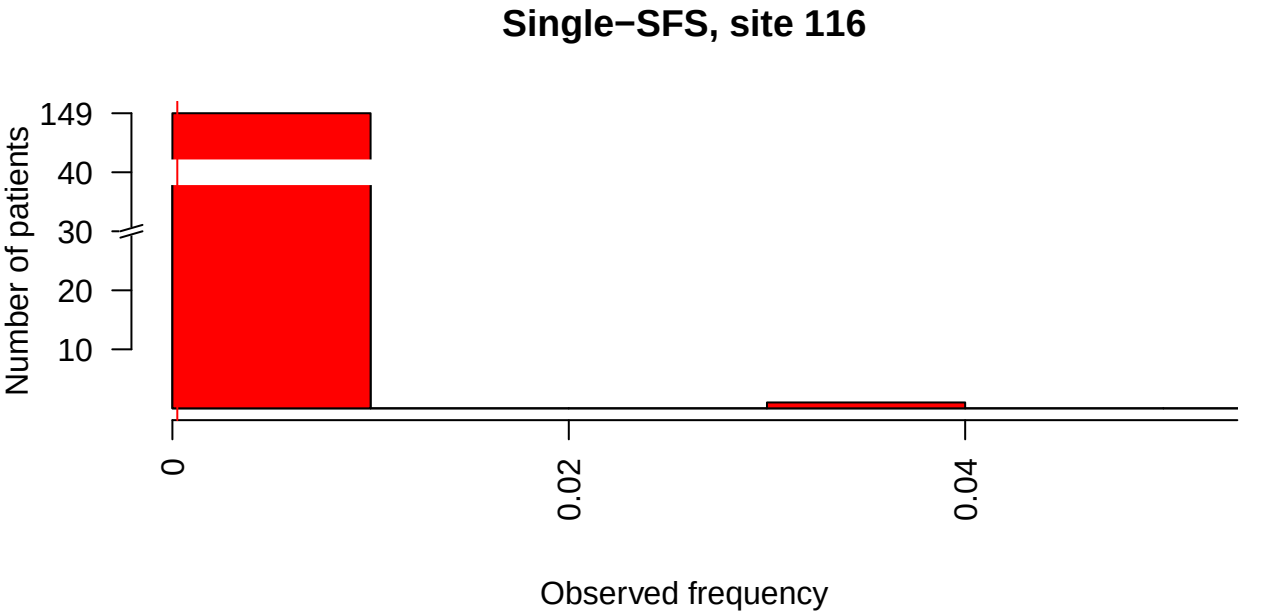

Simulated data, cost 0.0081
Number of patients
141
40
30
20
10
pvalue= 0.48
0
0.02
0.04
0.06
0.08
0.1
Observed frequency

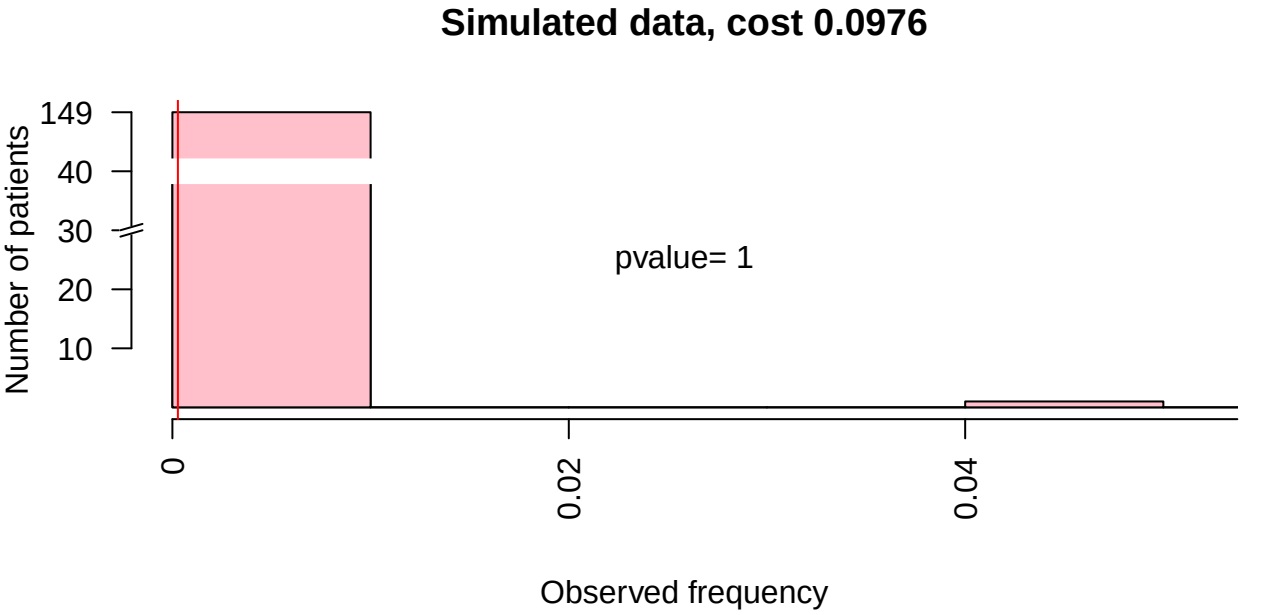

Single−SFS, site 114
Number of patients
117
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
0.24
0.26
0.28
0.3
0.32
0.34
0.36
0.38
0.4
0.42
0.44
0.46
0.48
0.5
0.52
0.54
0.56
0.58
0.6
0.62
0.64
0.66
0.68
0.7
0.72
0.74
0.76
0.78
0.8
0.82
0.84
0.86
0.88
0.9
0.92
Observed frequency

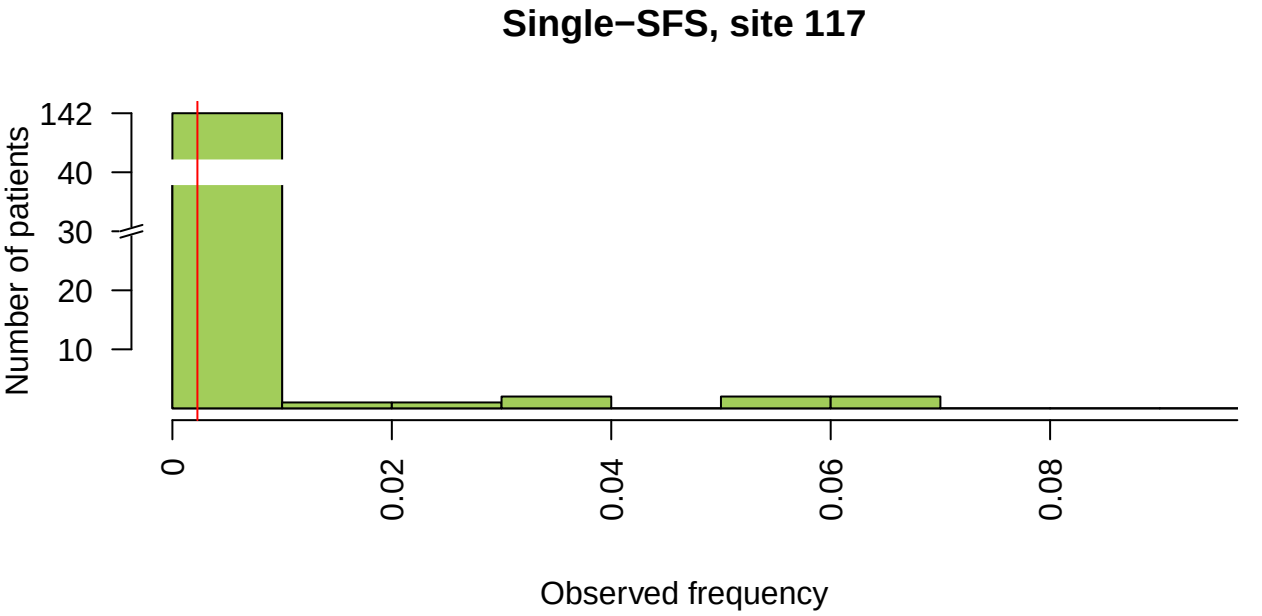

Simulated data, cost 0.0043
Number of patients
101
40
30
20
10
pvalue= 0.002
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
0.24
0.26
0.28
0.3
0.32
0.34
0.36
0.38
0.4
0.42
0.44
0.46
0.48
0.5
0.52
0.54
0.56
0.58
0.6
0.62
0.64
0.66
0.68
0.7
0.72
0.74
0.76
0.78
0.8
0.82
0.84
0.86
0.88
0.9
0.92
Observed frequency

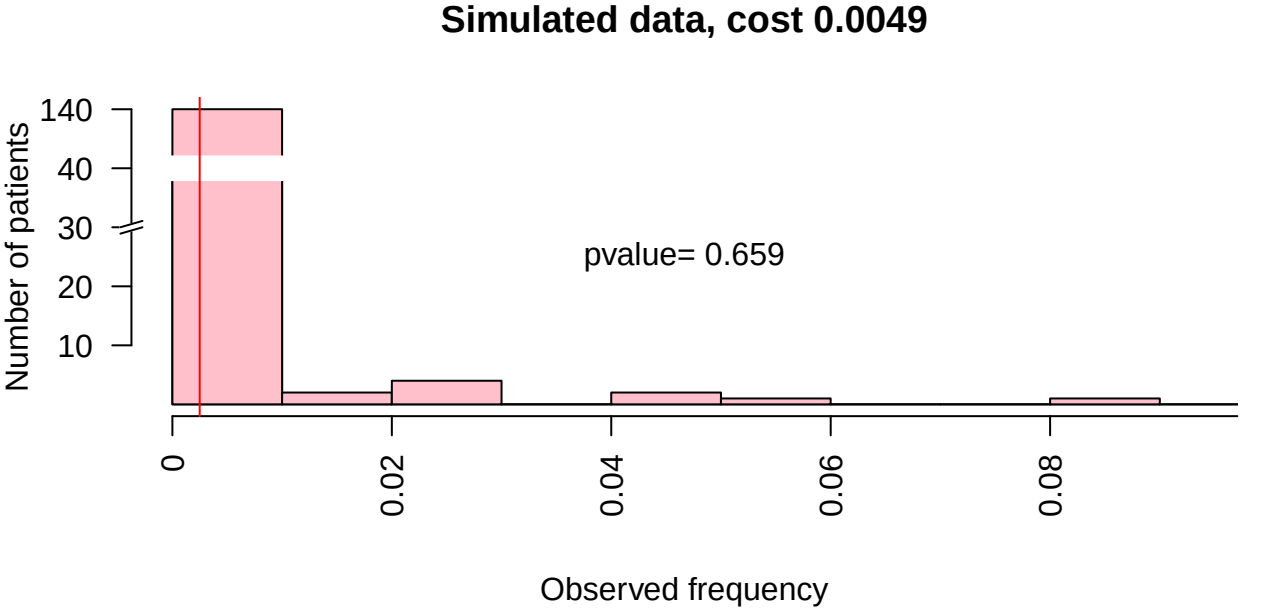

Single−SFS, site 115
Number of patients
141
40
30
20
10
0
0.02
0.04
0.06
0.08
Observed frequency

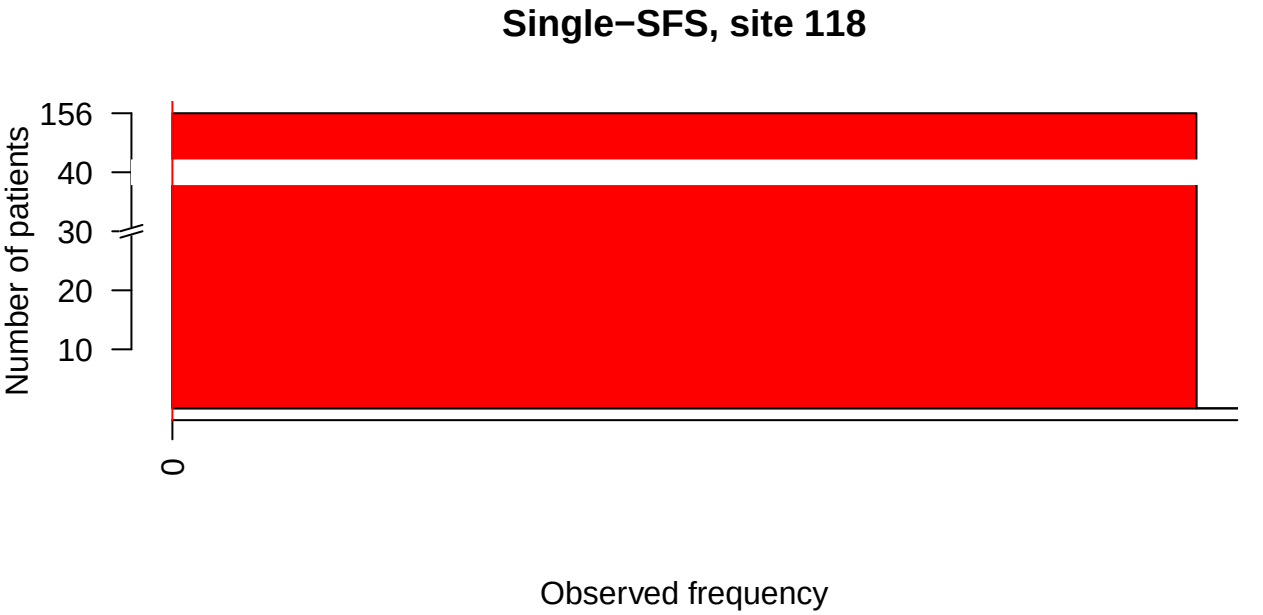

Simulated data, cost 0.0252
Number of patients
143
40
30
20
10
pvalue= 0.422
0
0.02
0.04
0.06
0.08
Observed frequency

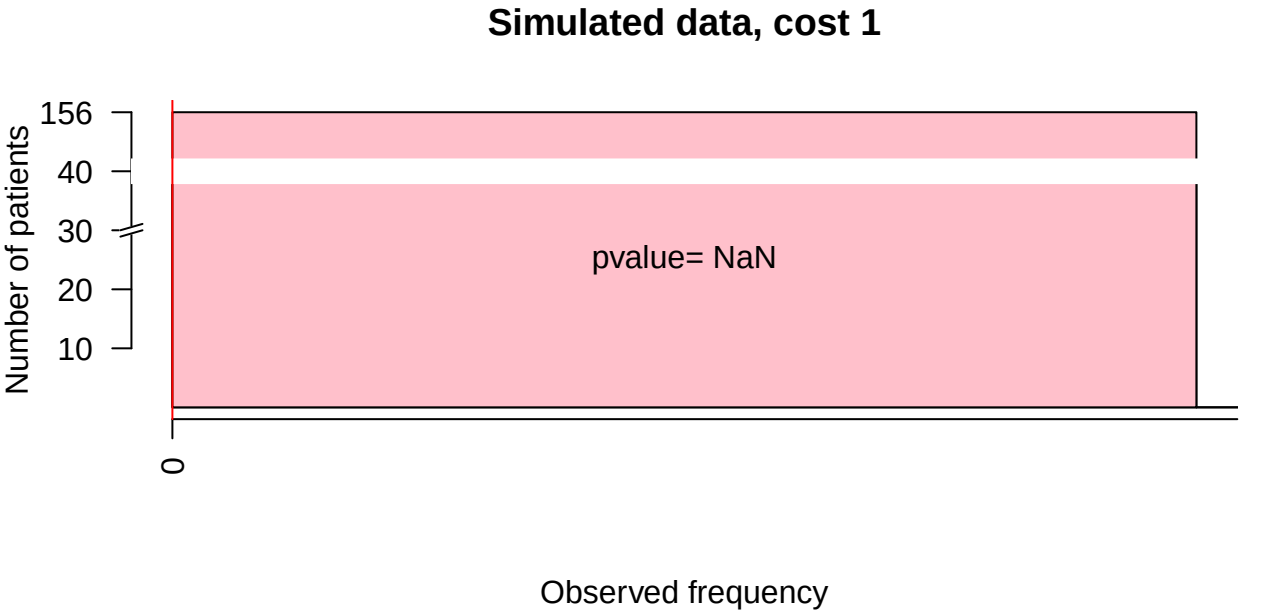

Single−SFS, site 116
Number of patients
149
40
30
20
10
0
0.02
0.04
Observed frequency

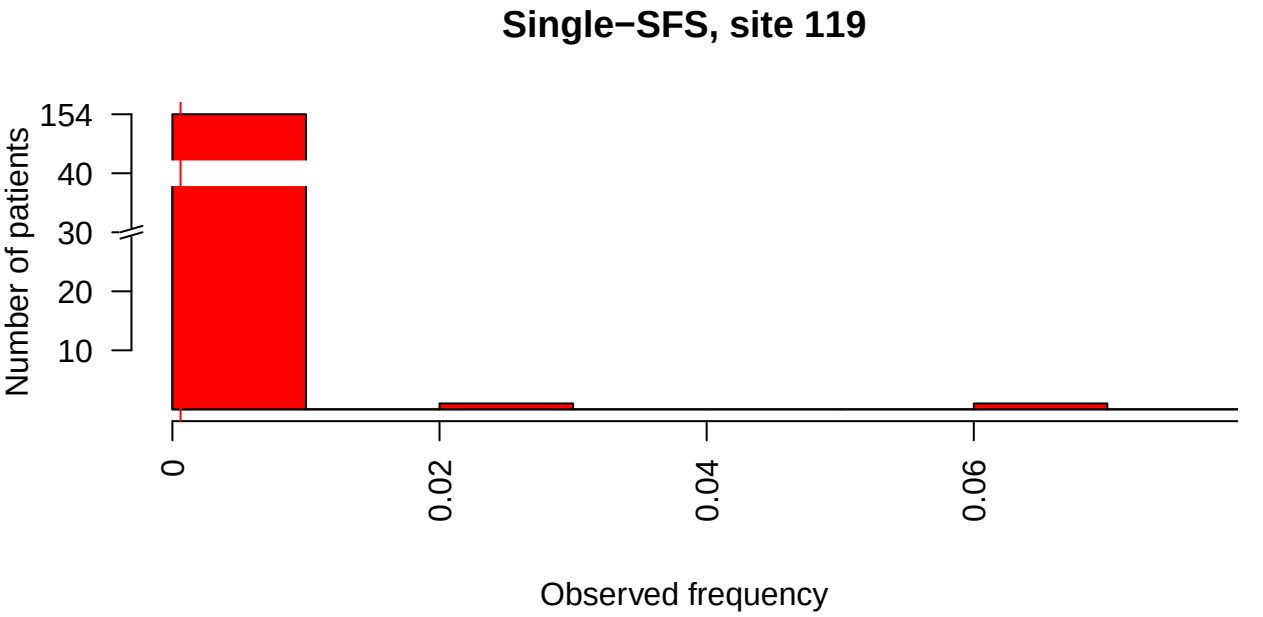

Simulated data, cost 0.0976
Number of patients
149
40
30
20
10
pvalue= 1
0
0.02
0.04
Observed frequency

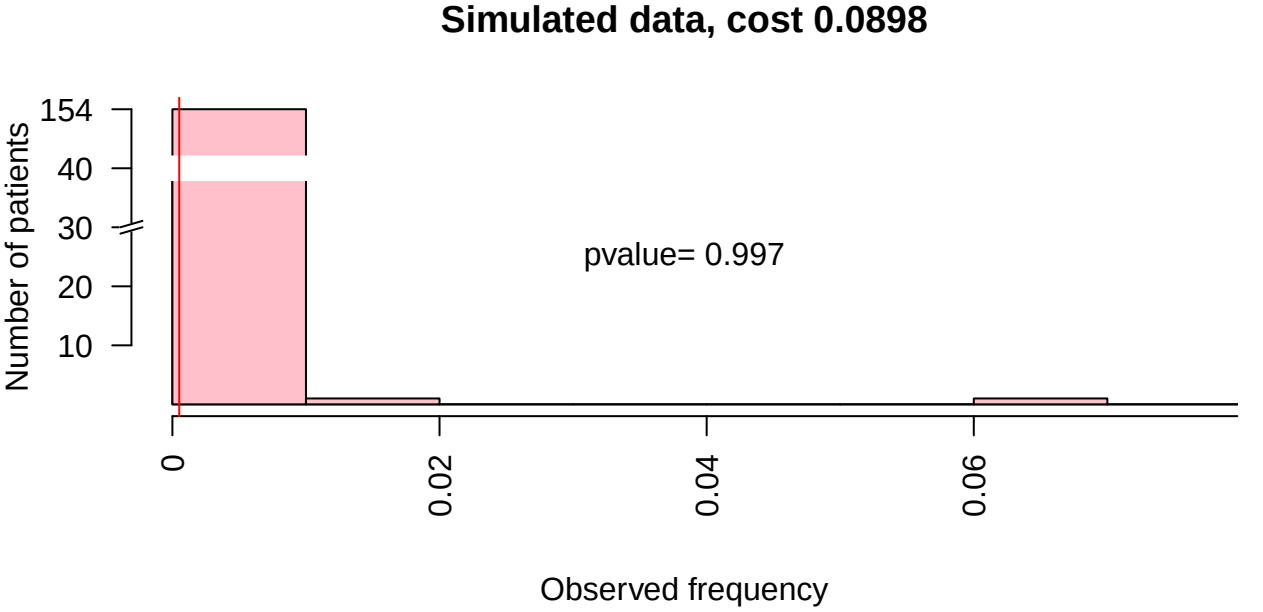

Single−SFS, site 117
Number of patients
142
40
30
20
10
0
0.02
0.04
0.06
0.08
Observed frequency

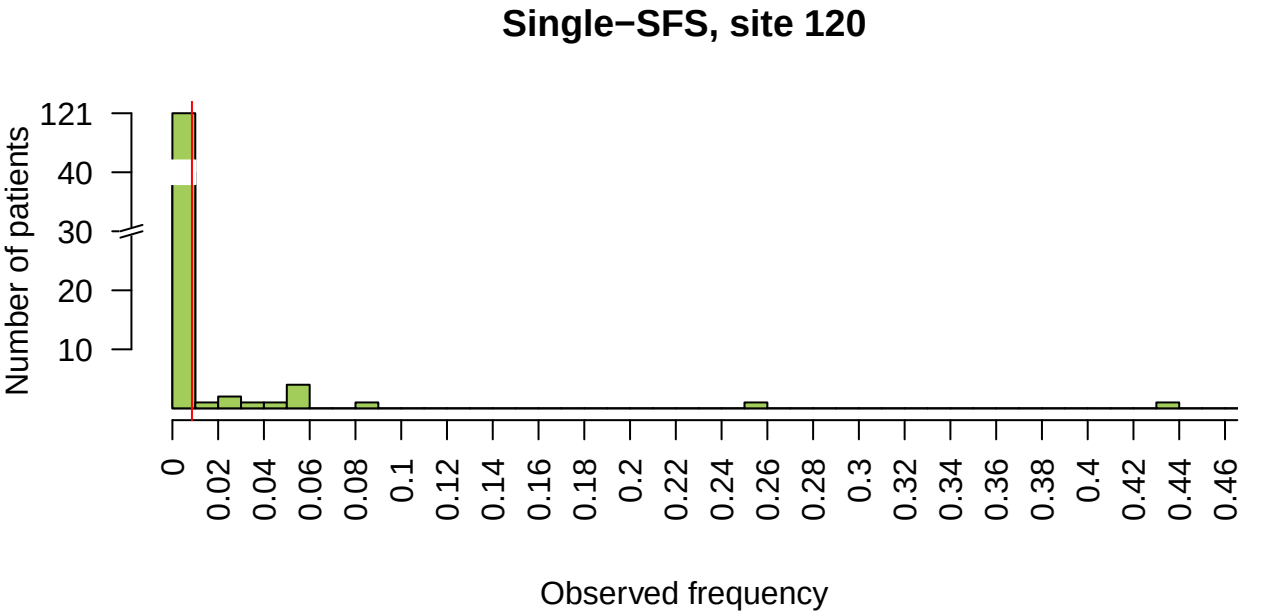

Simulated data, cost 0.0049
Number of patients
140
40
30
20
10
pvalue= 0.659
0
0.02
0.04
0.06
0.08
Observed frequency

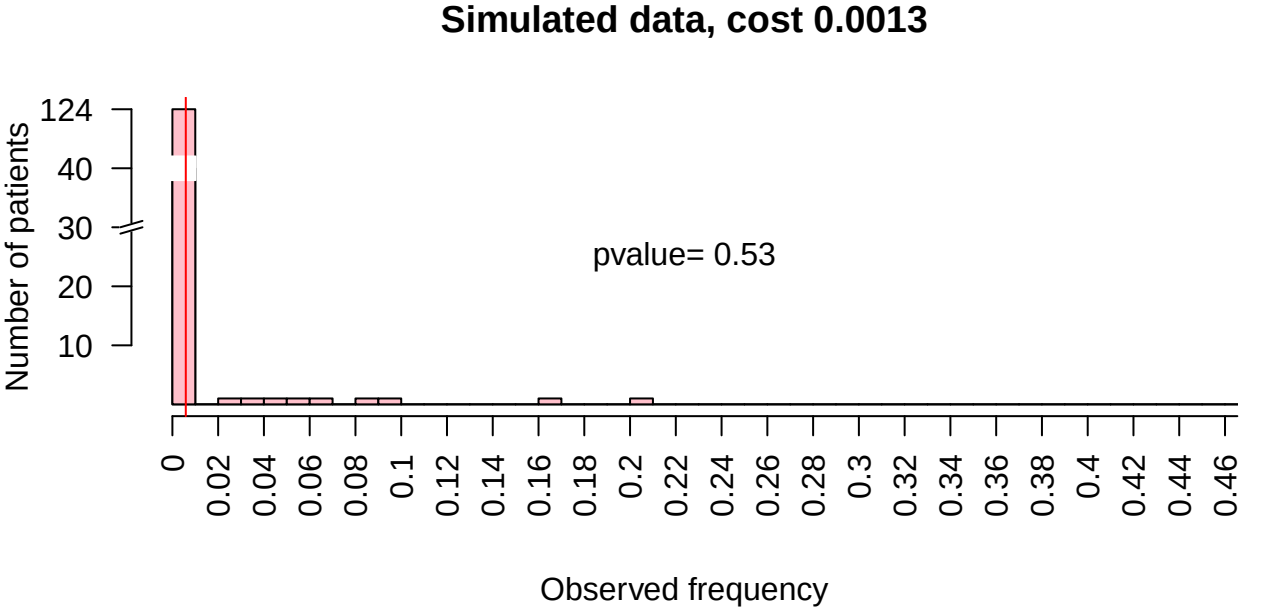

Single−SFS, site 118
Number of patients
156
40
30
20
10
0
Observed frequency

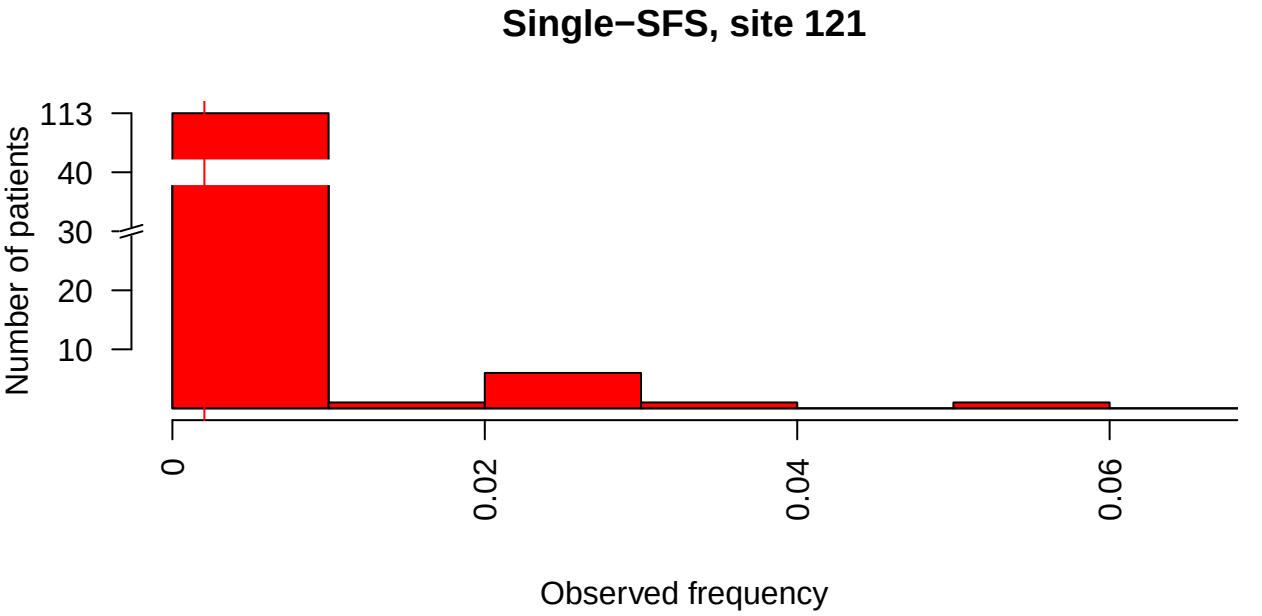

Simulated data, cost 1
Number of patients
156
40
30
20
10
0
pvalue= NaN
Observed frequency

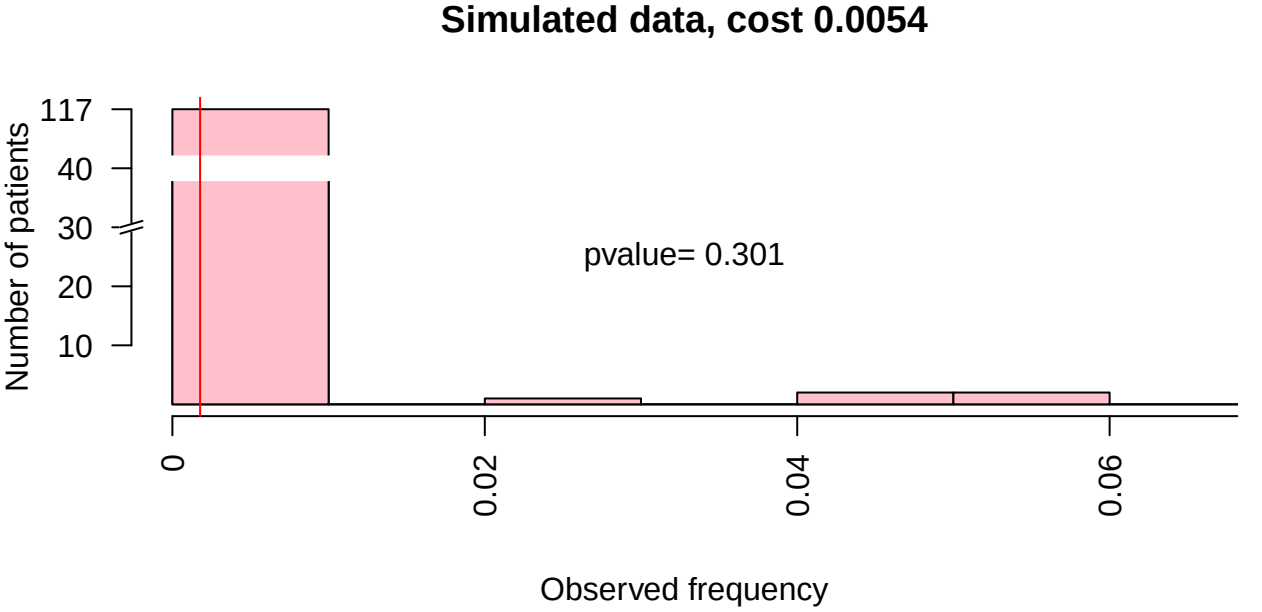

Single−SFS, site 119
Number of patients
154
40
30
20
10
0
0.02
0.04
0.06
Observed frequency

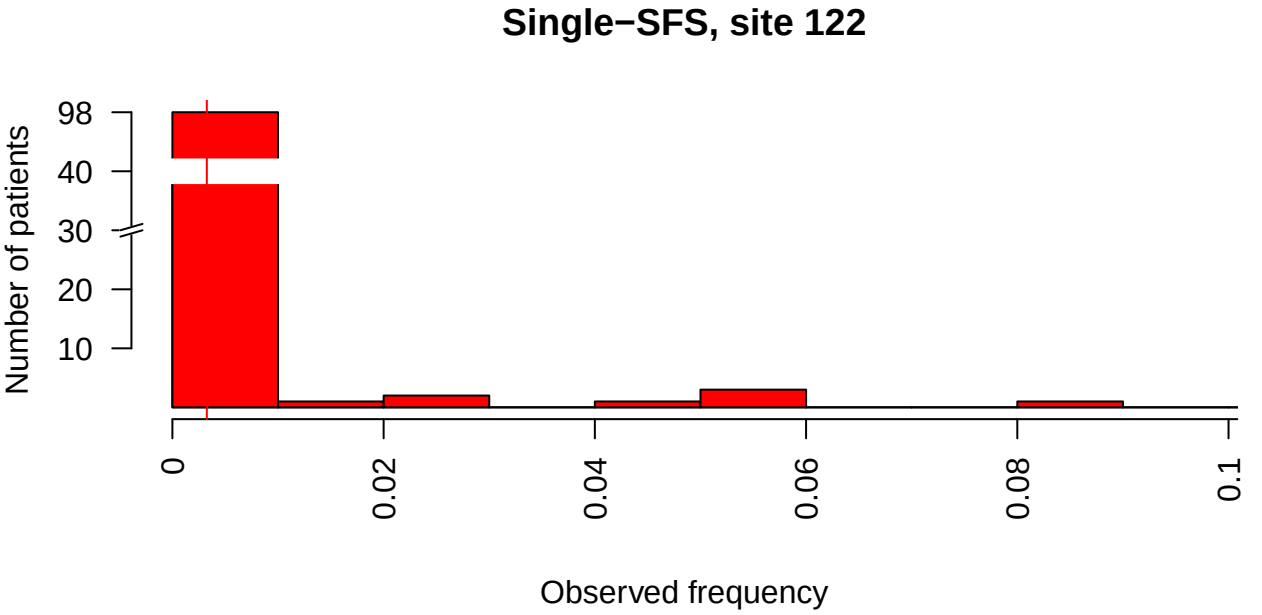

Simulated data, cost 0.0898
Number of patients
154
40
30
20
10
pvalue= 0.997
0
0.02
0.04
0.06
Observed frequency

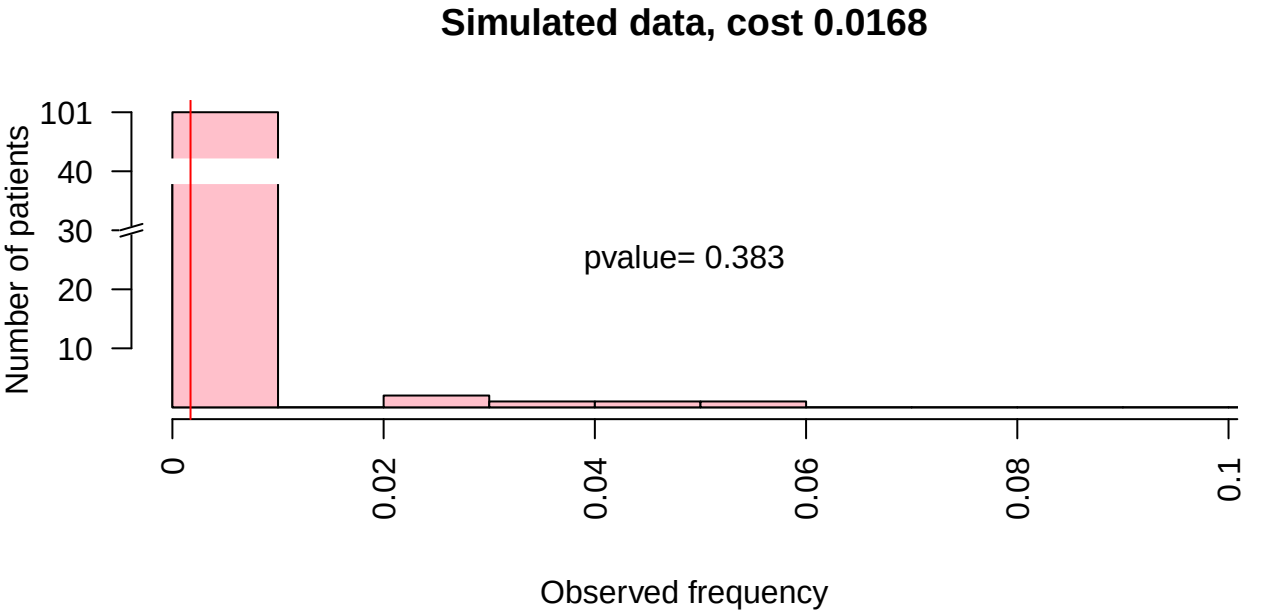

Single−SFS, site 120
Number of patients
121
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
0.24
0.26
0.28
0.3
0.32
0.34
0.36
0.38
0.4
0.42
0.44
0.46
Observed frequency

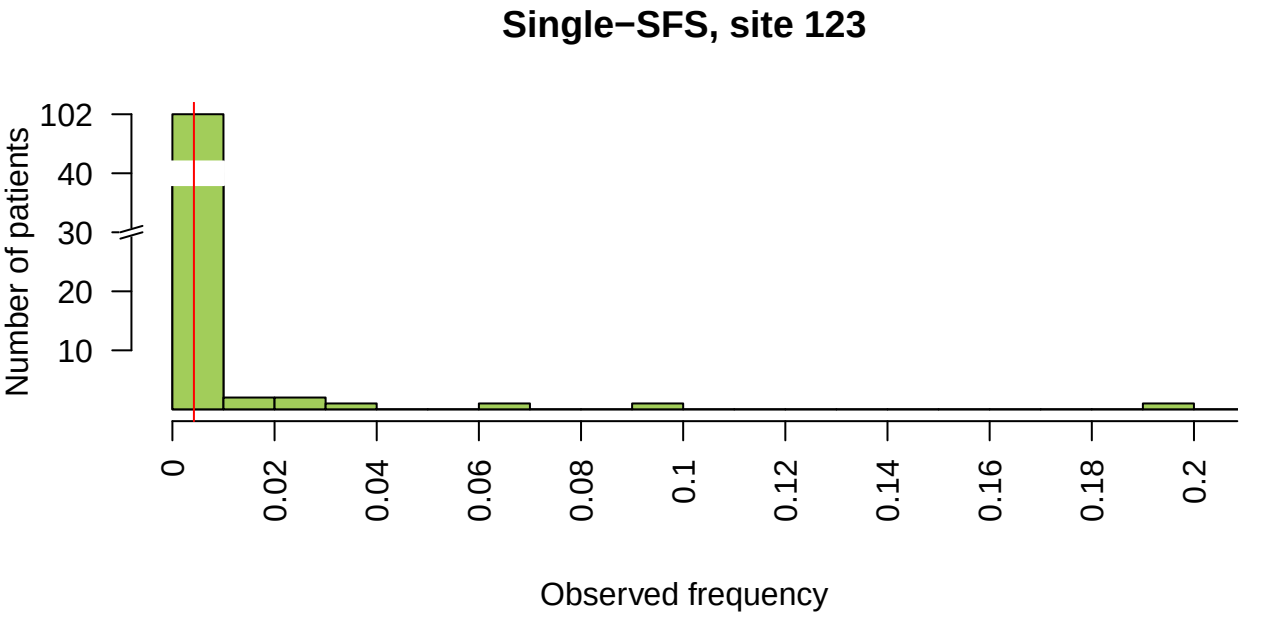

Simulated data, cost 0.0013
Number of patients
124
40
30
20
10
pvalue= 0.53
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
0.24
0.26
0.28
0.3
0.32
0.34
0.36
0.38
0.4
0.42
0.44
0.46
Observed frequency

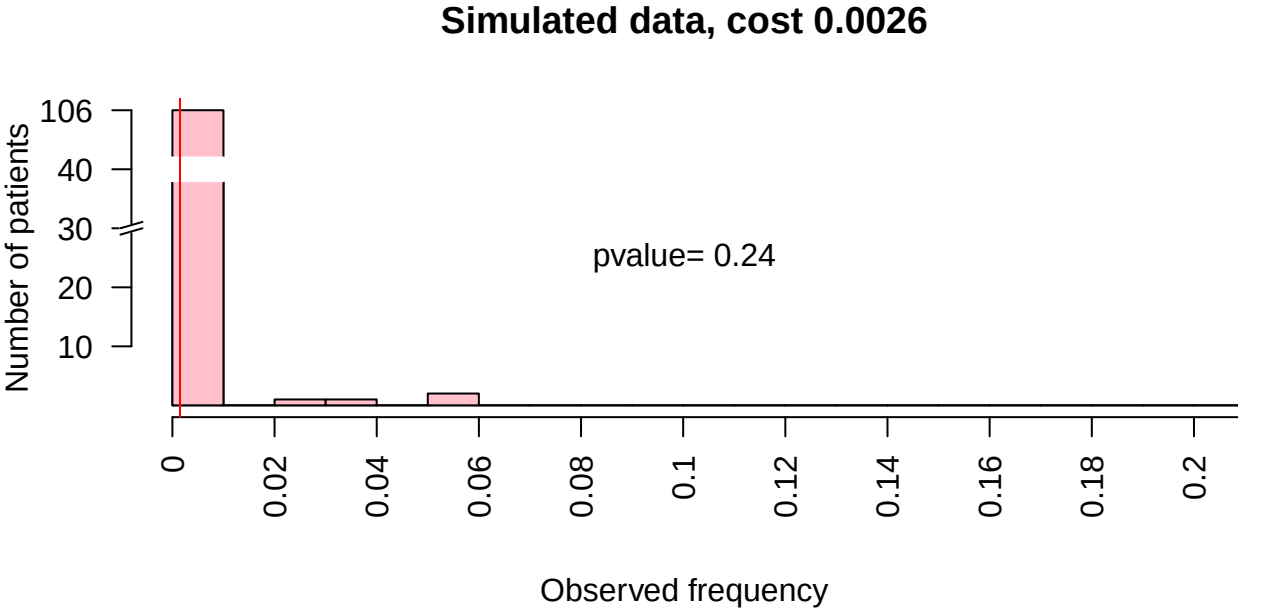

Single−SFS, site 121
Number of patients
113
40
30
20
10
0
0.02
0.04
0.06
Observed frequency

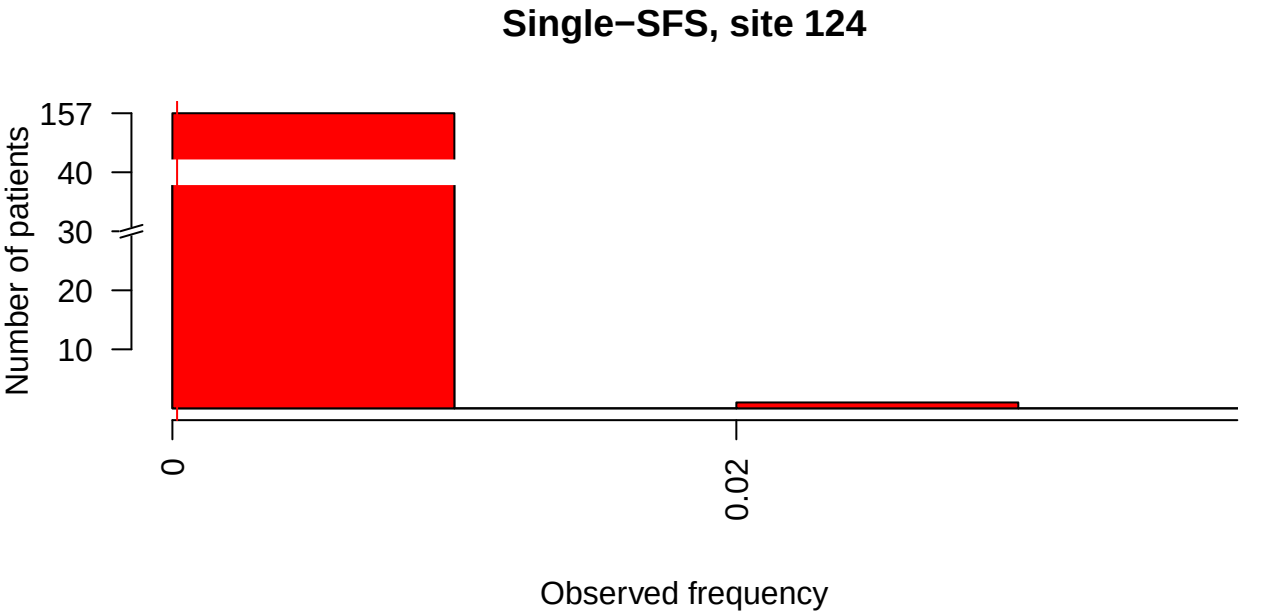

Simulated data, cost 0.0054
Number of patients
117
40
30
20
10
pvalue= 0.301
0
0.02
0.04
0.06
Observed frequency

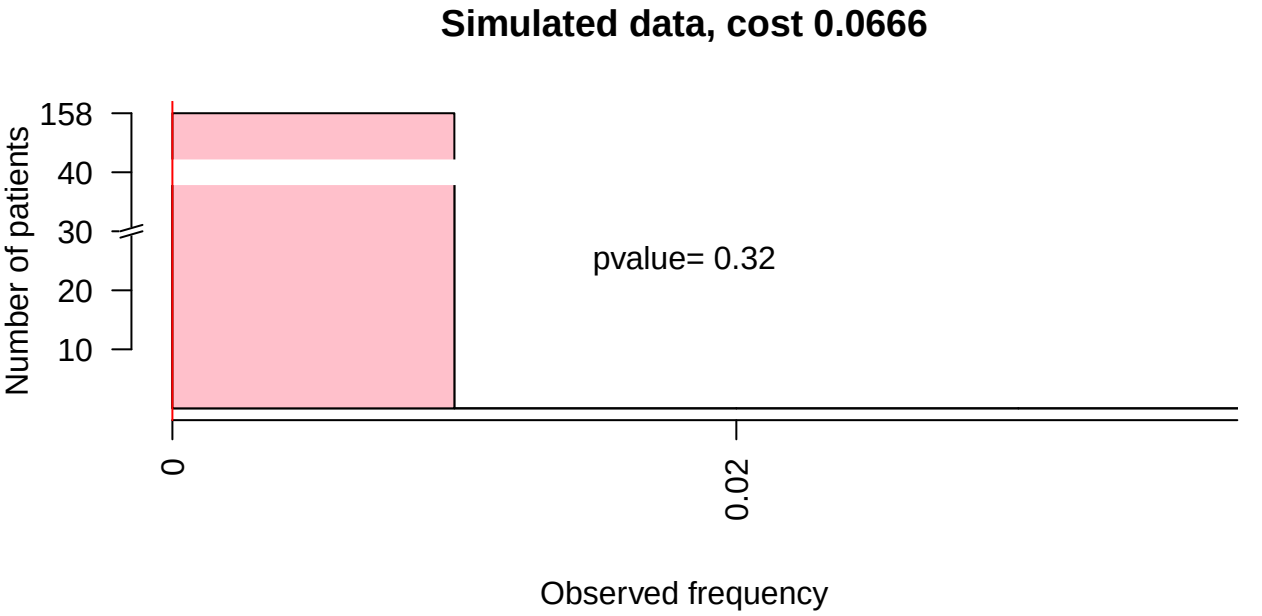

Single−SFS, site 122
Number of patients
98
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
Observed frequency

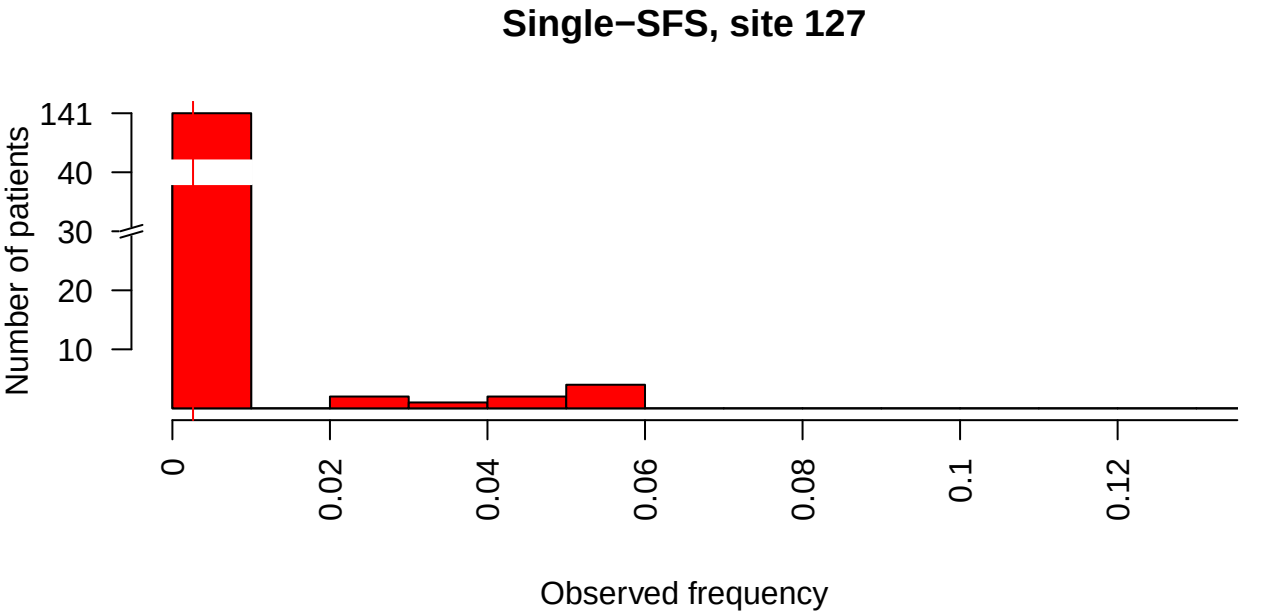

Simulated data, cost 0.0168
Number of patients
101
40
30
20
10
pvalue= 0.383
0
0.02
0.04
0.06
0.08
0.1
Observed frequency

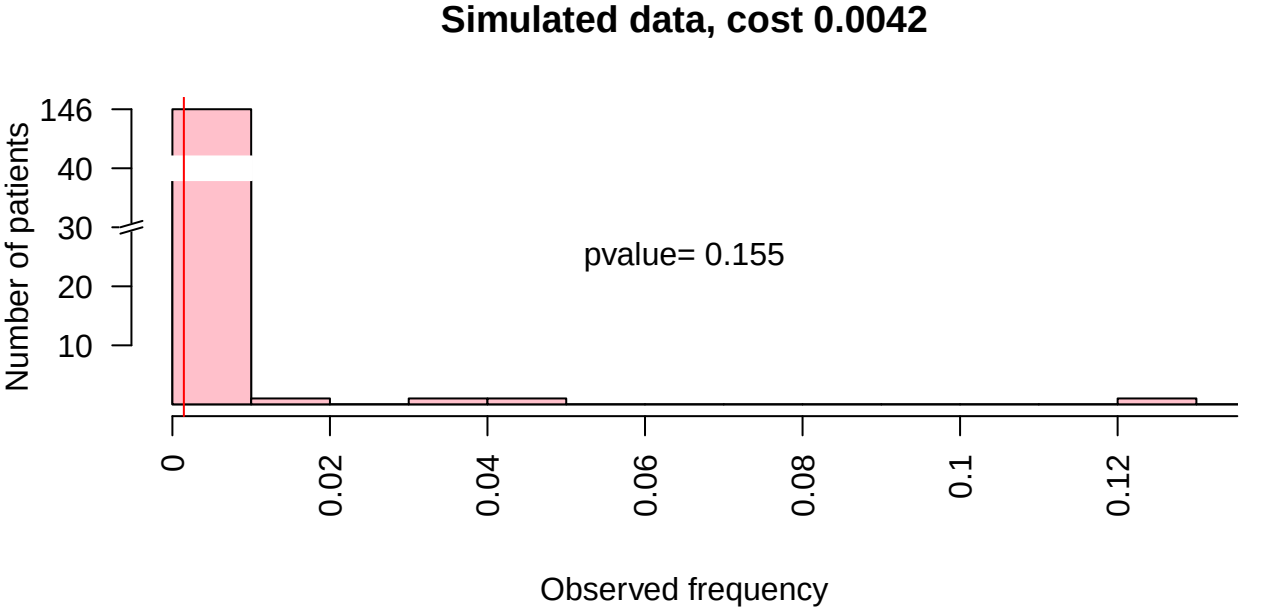

Single−SFS, site 123
Number of patients
102
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
Observed frequency

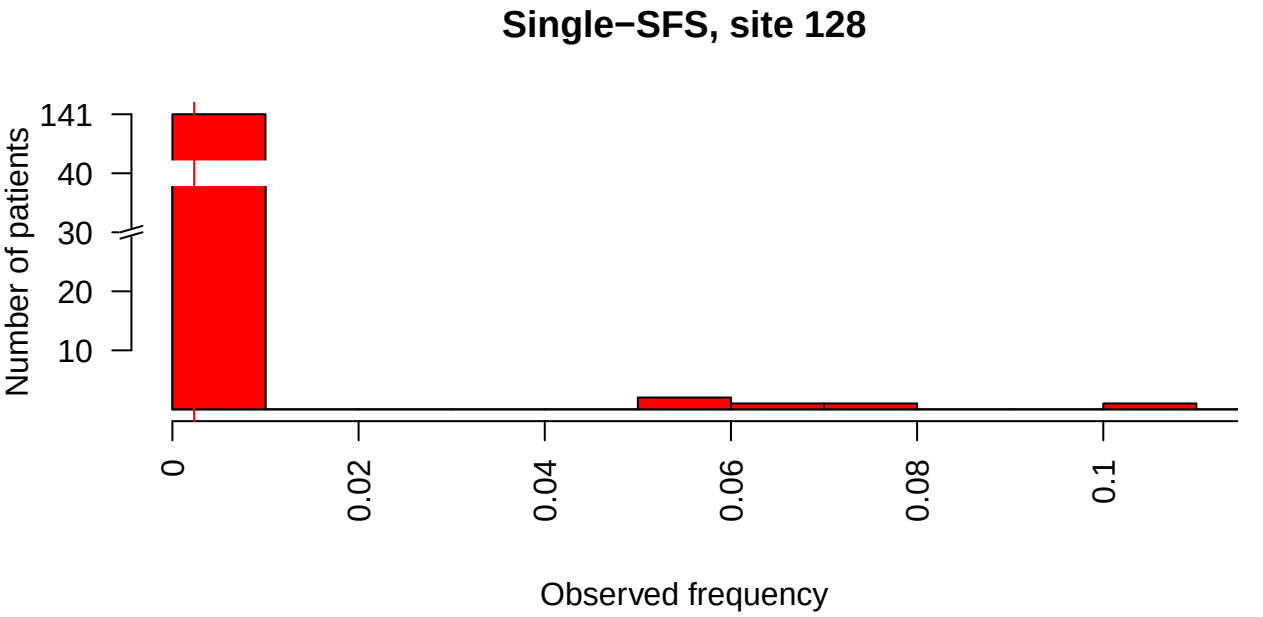

Simulated data, cost 0.0026
Number of patients
106
40
30
20
10
pvalue= 0.24
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
Observed frequency

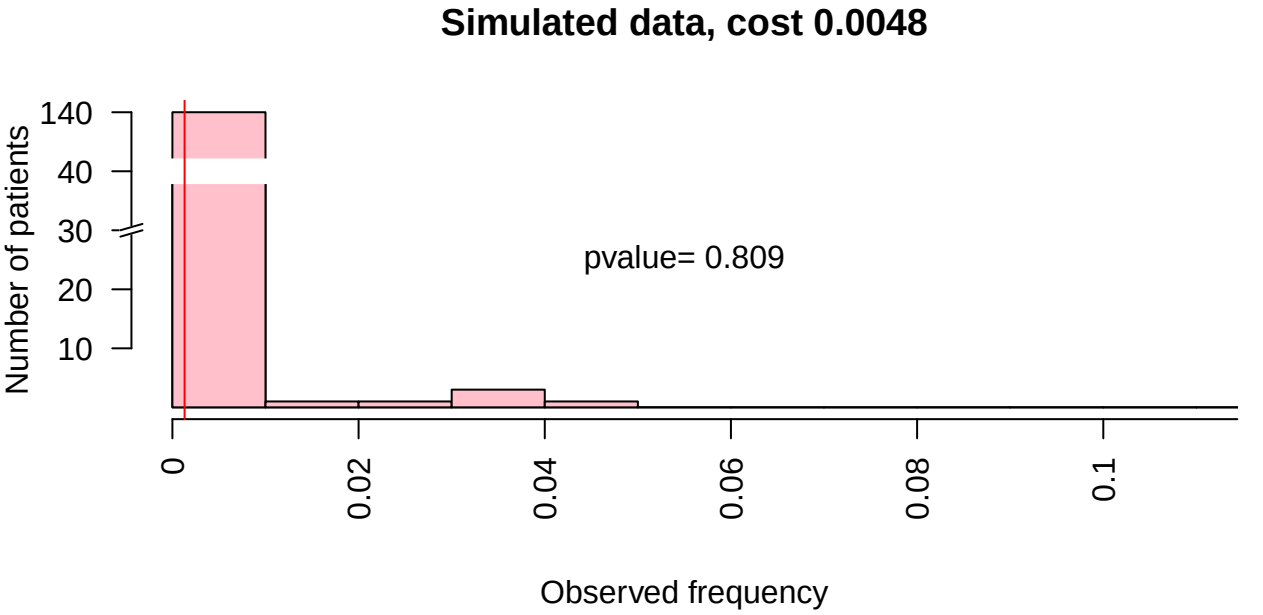

Single−SFS, site 124
Number of patients
157
40
30
20
10
0
0.02
Observed frequency

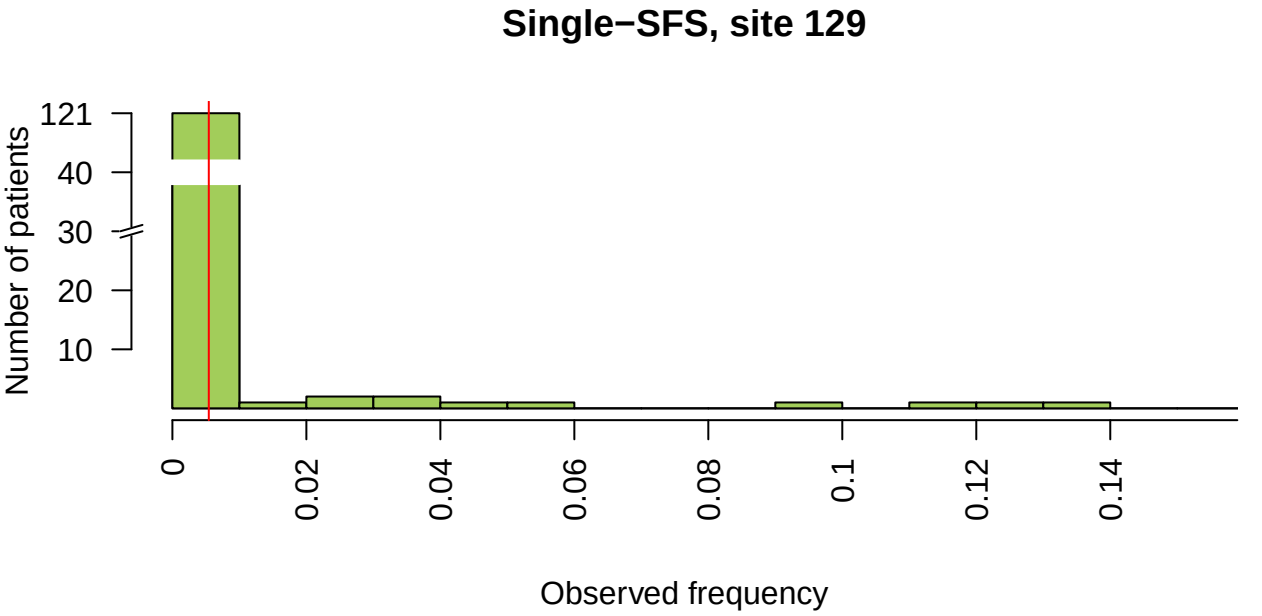

Simulated data, cost 0.0666
Number of patients
158
40
30
20
10
pvalue= 0.32
0
0.02
Observed frequency

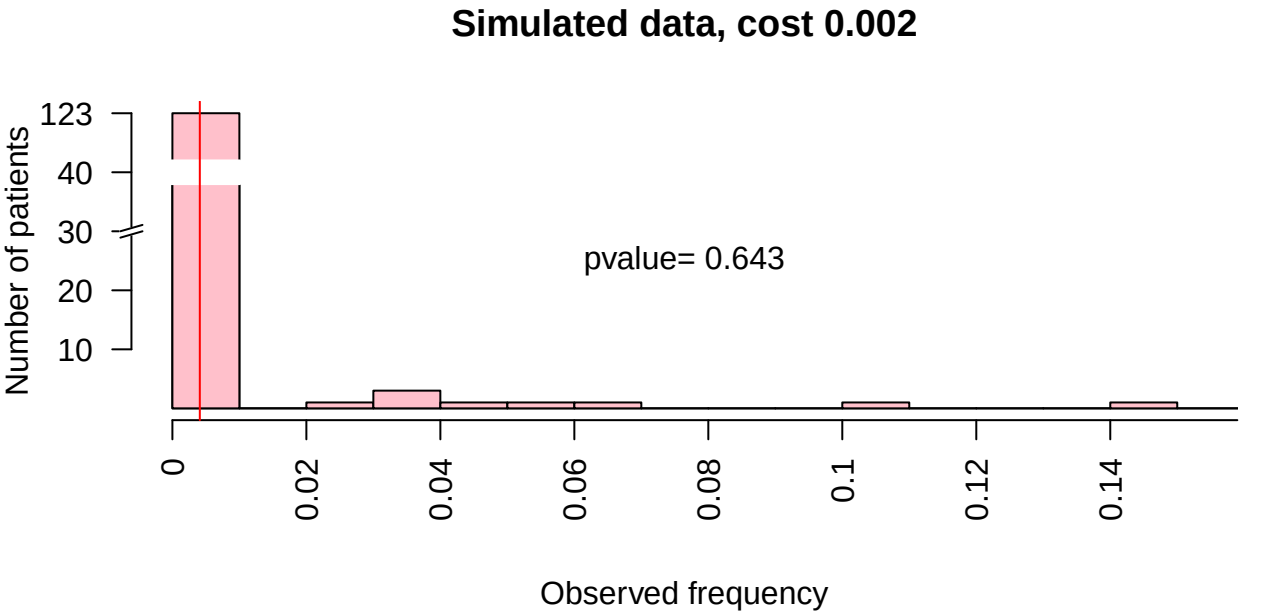

Single−SFS, site 127
Number of patients
141
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
Observed frequency

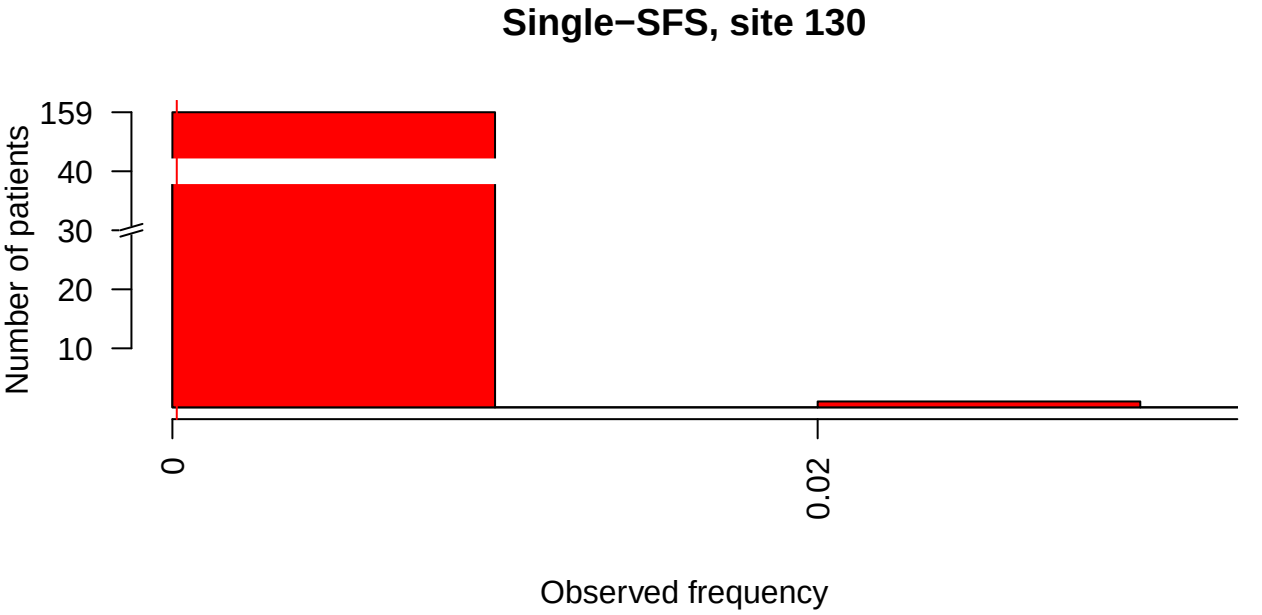

Simulated data, cost 0.0042
Number of patients
146
40
30
20
10
pvalue= 0.155
0
0.02
0.04
0.06
0.08
0.1
0.12
Observed frequency

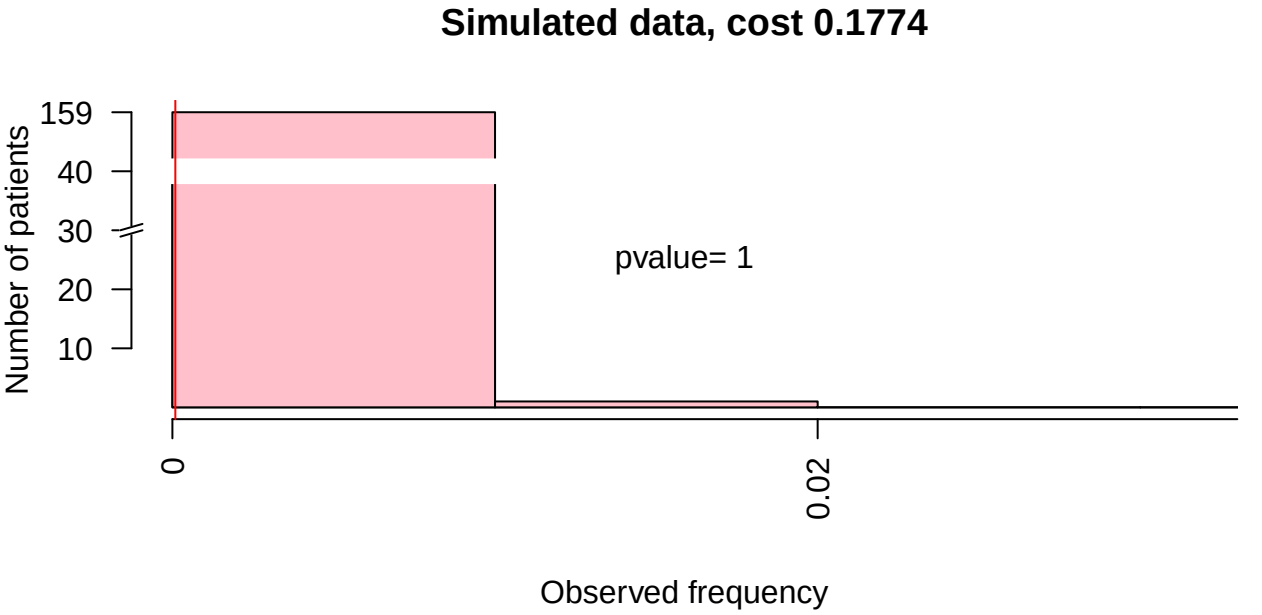

Single−SFS, site 128
Number of patients
141
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
Observed frequency

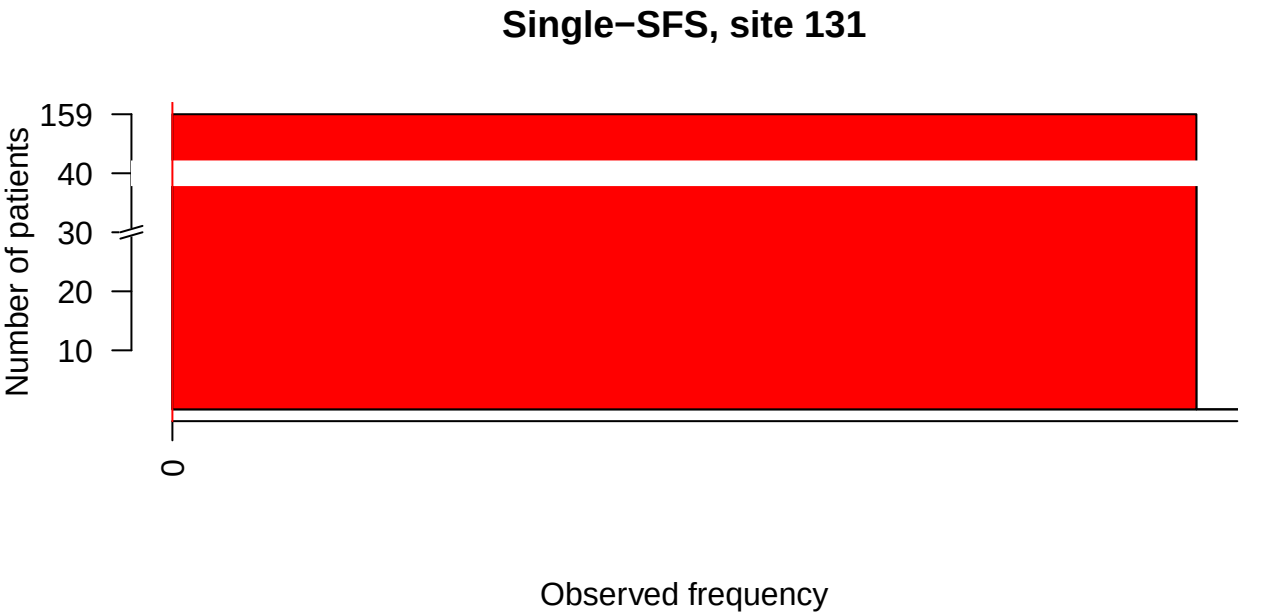

Simulated data, cost 0.0048
Number of patients
140
40
30
20
10
pvalue= 0.809
0
0.02
0.04
0.06
0.08
0.1
Observed frequency

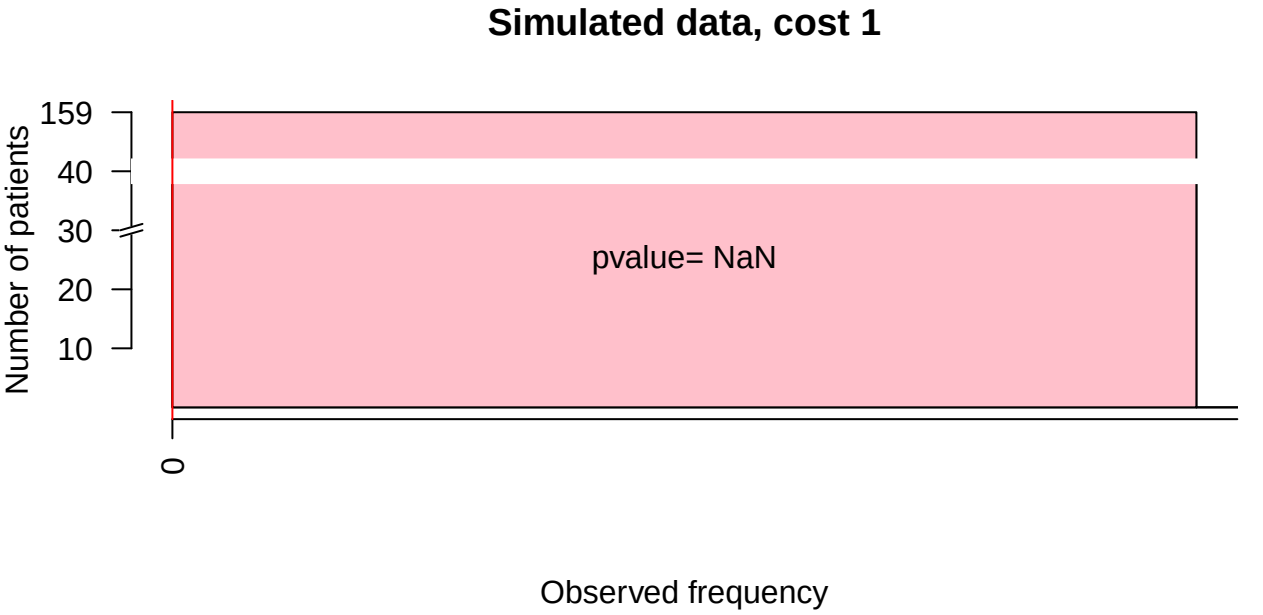

Single−SFS, site 129
Number of patients
121
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
Observed frequency

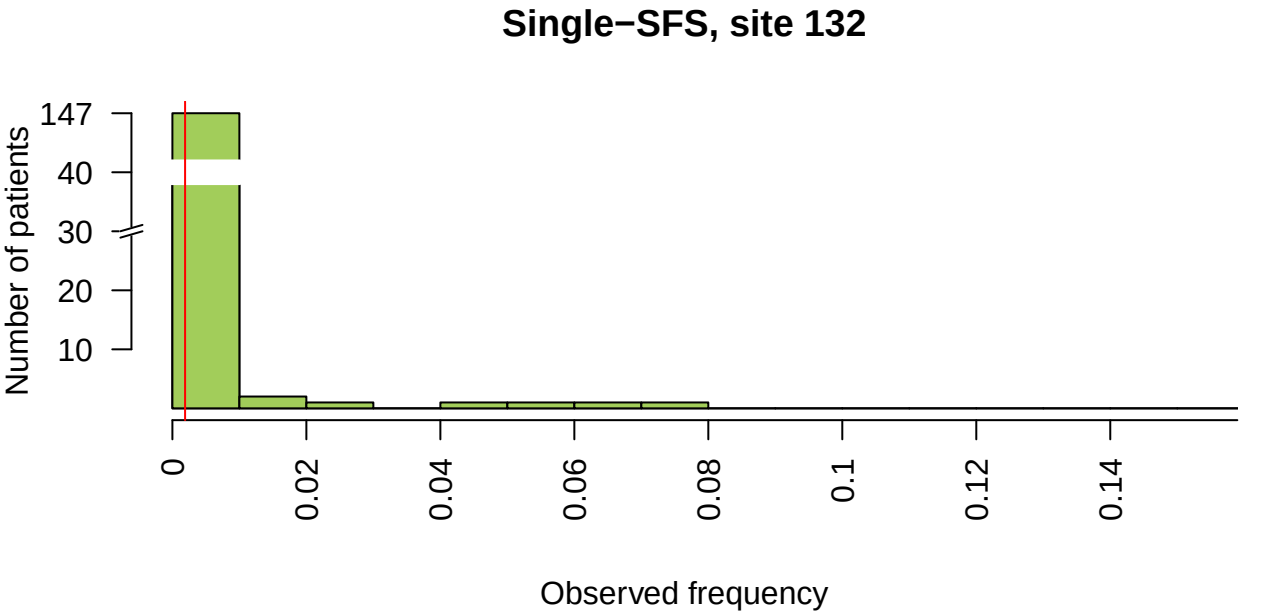

Simulated data, cost 0.002
Number of patients
123
40
30
20
10
pvalue= 0.643
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
Observed frequency

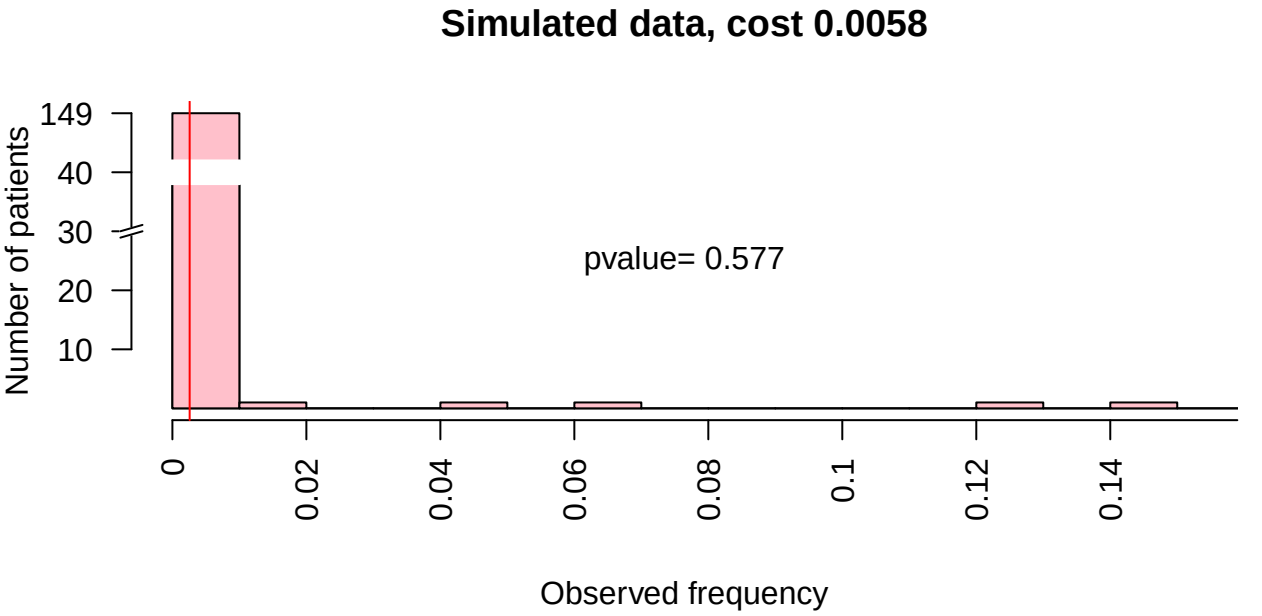

Single−SFS, site 130
Number of patients
159
40
30
20
10
0
0.02
Observed frequency

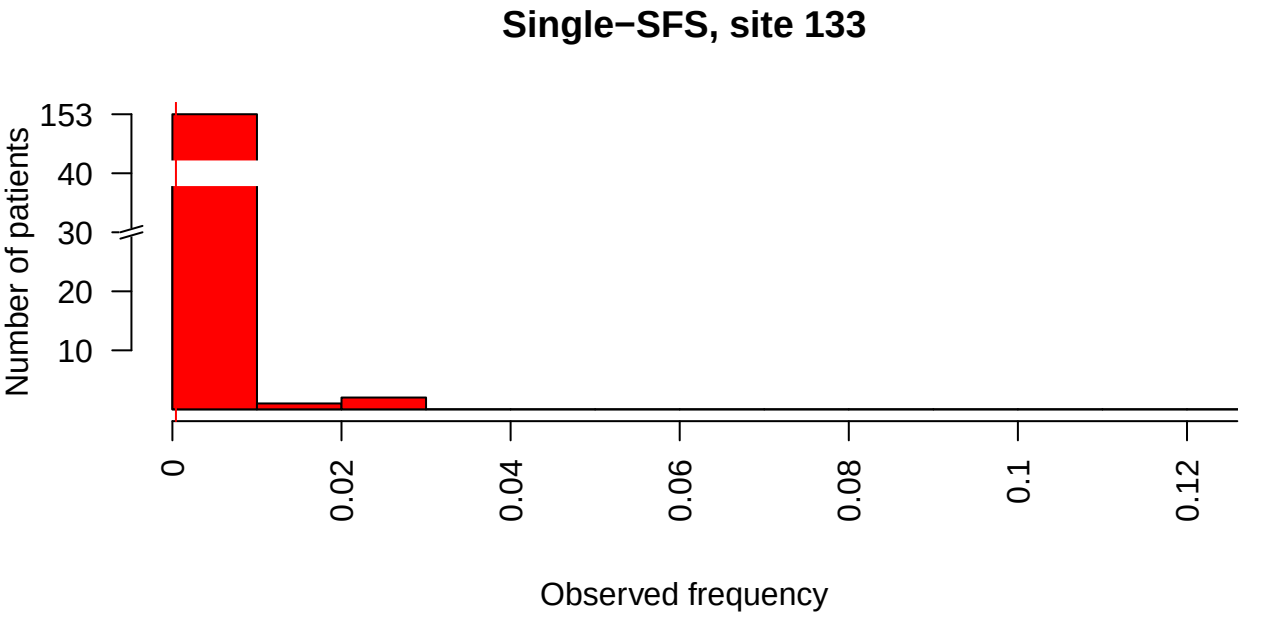

Simulated data, cost 0.1774
Number of patients
159
40
30
20
10
pvalue= 1
0
0.02
Observed frequency

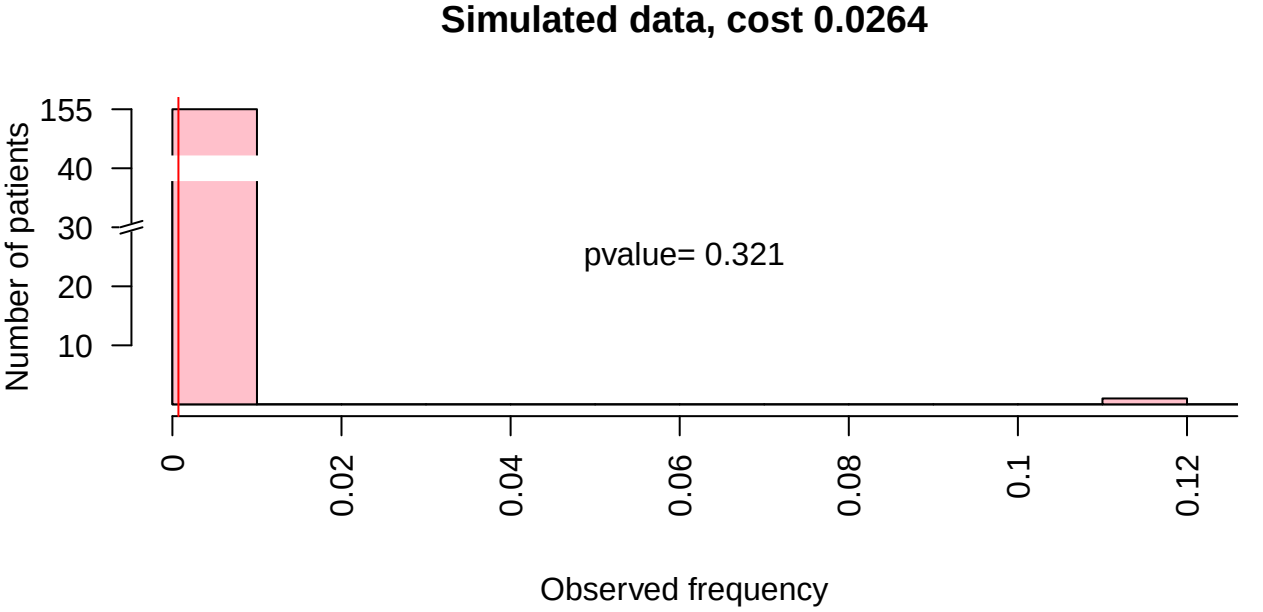

Single−SFS, site 131
Number of patients
159
40
30
20
10
0
Observed frequency

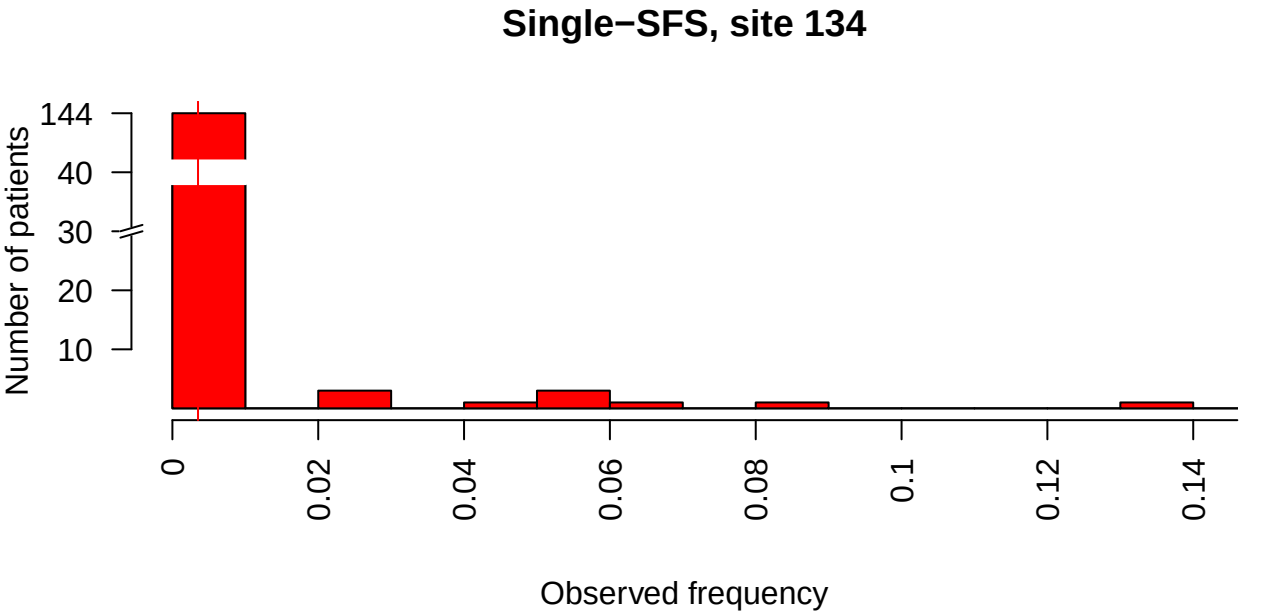

Simulated data, cost 1
Number of patients
159
40
30
20
10
0
pvalue= NaN
Observed frequency

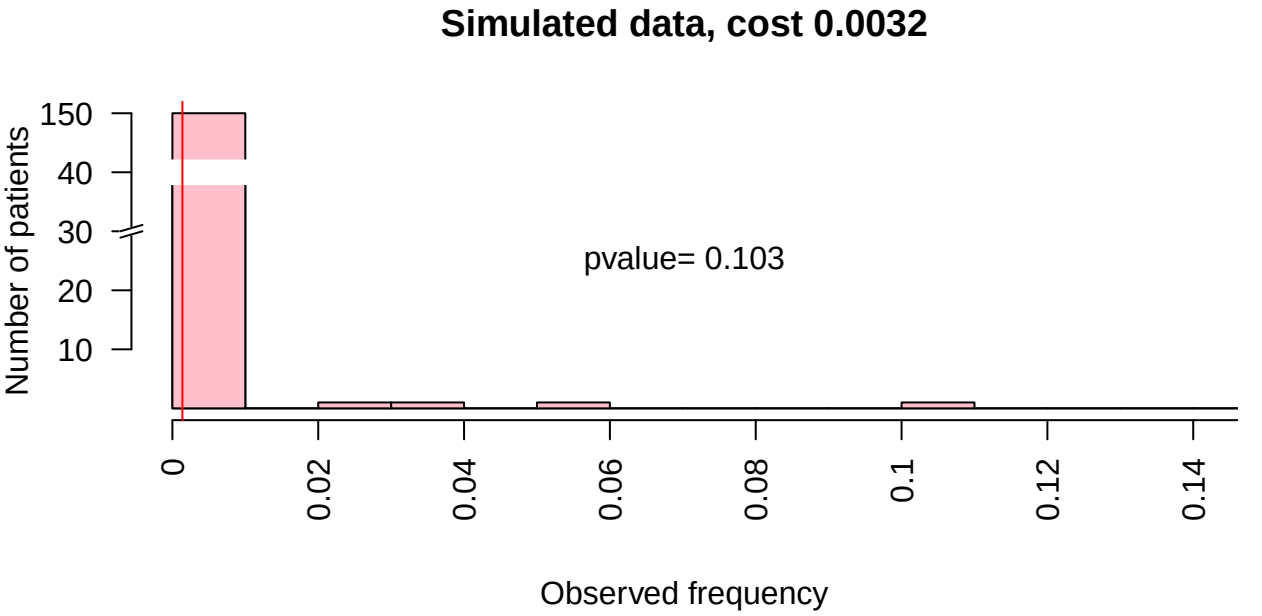

Single−SFS, site 132
Number of patients
147
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
Observed frequency

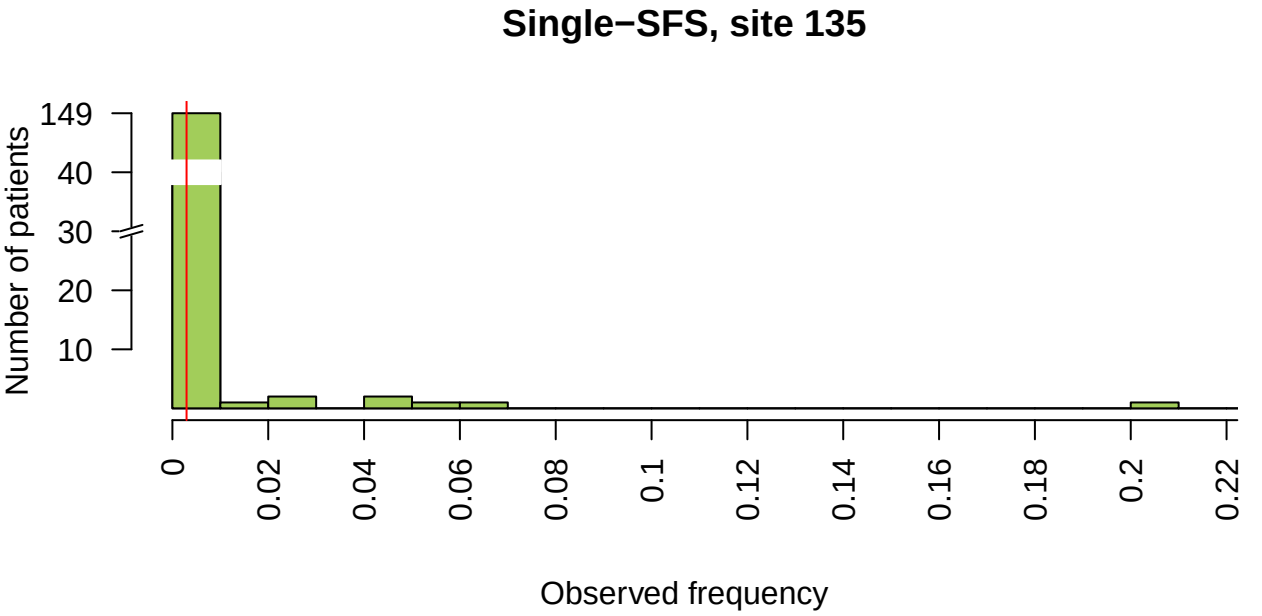

Simulated data, cost 0.0058
Number of patients
149
40
30
20
10
pvalue= 0.577
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
Observed frequency

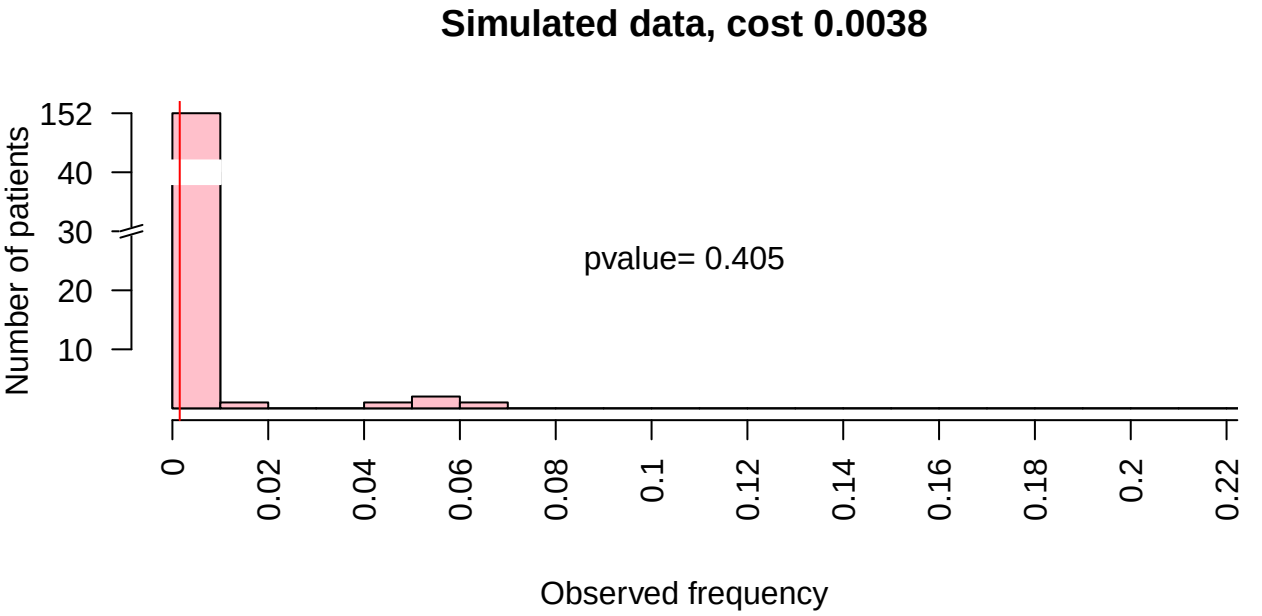

Single−SFS, site 133
Number of patients
153
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
Observed frequency

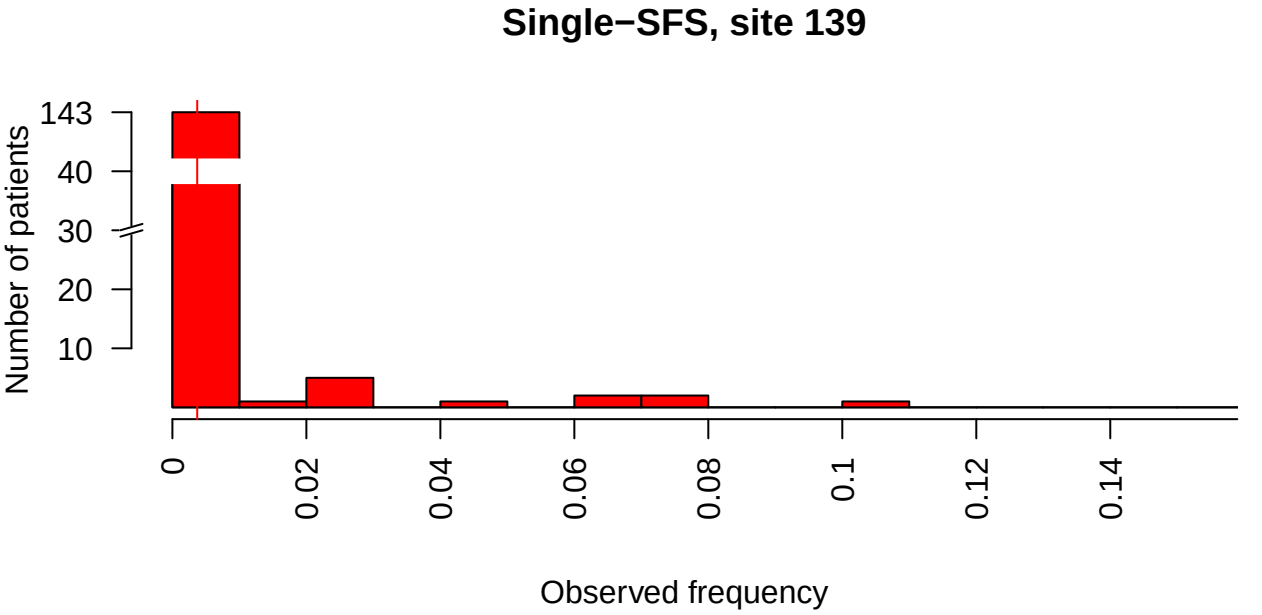

Simulated data, cost 0.0264
Number of patients
155
40
30
20
10
pvalue= 0.321
0
0.02
0.04
0.06
0.08
0.1
0.12
Observed frequency

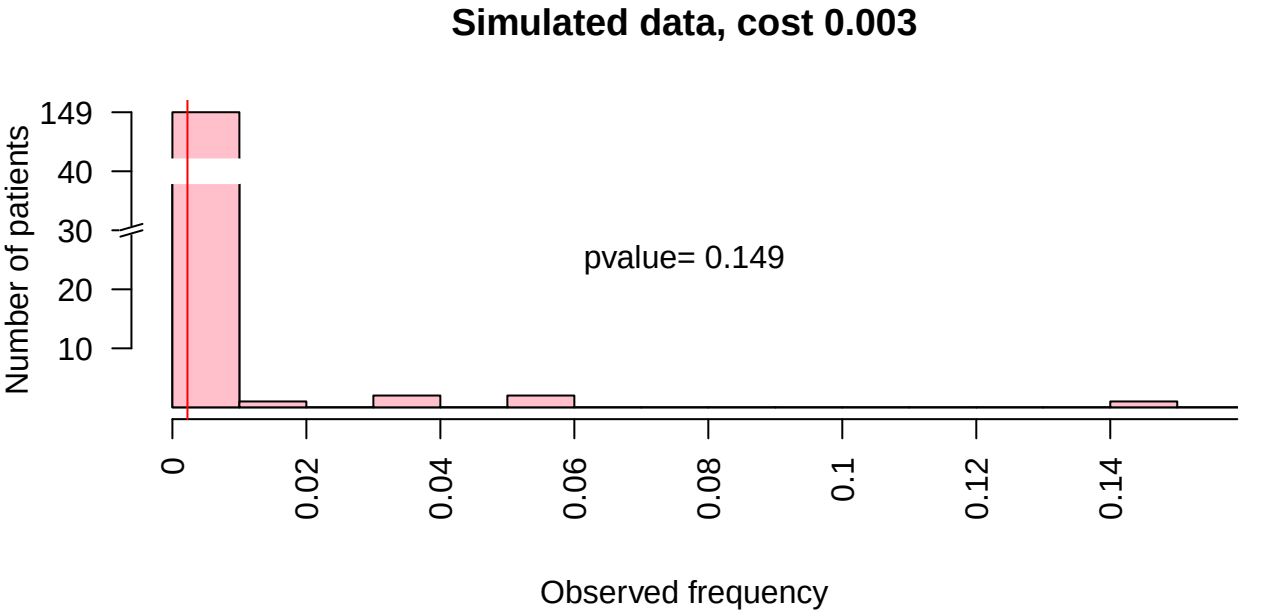

Single−SFS, site 134
Number of patients
144
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
Observed frequency

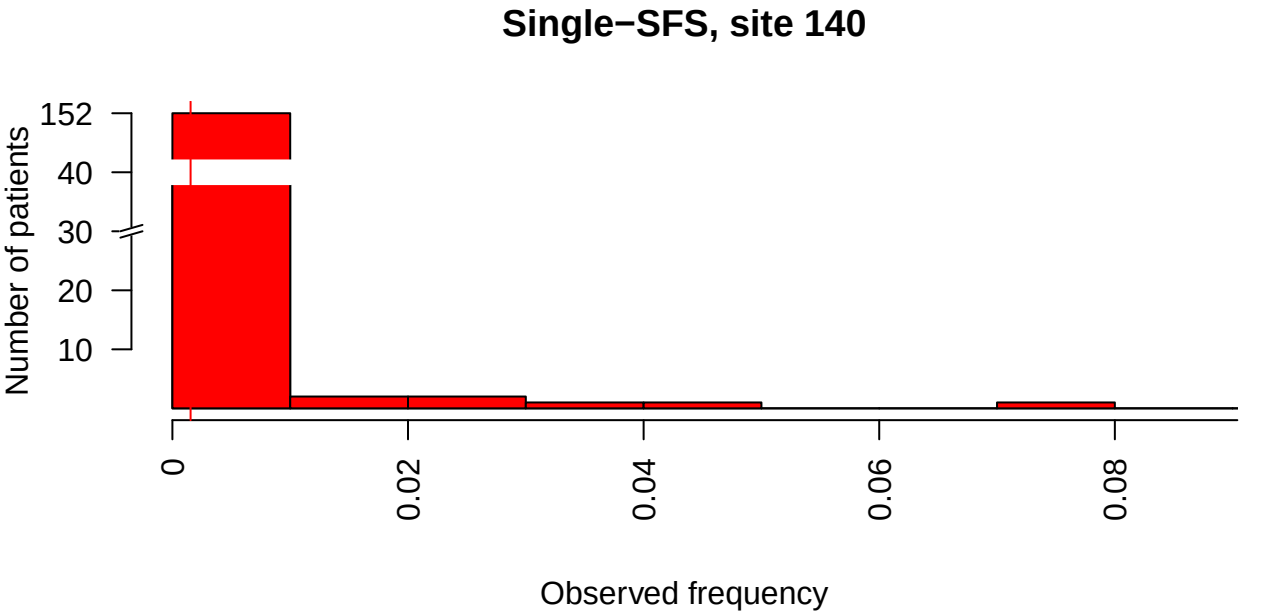

Simulated data, cost 0.0032
Number of patients
150
40
30
20
10
pvalue= 0.103
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
Observed frequency

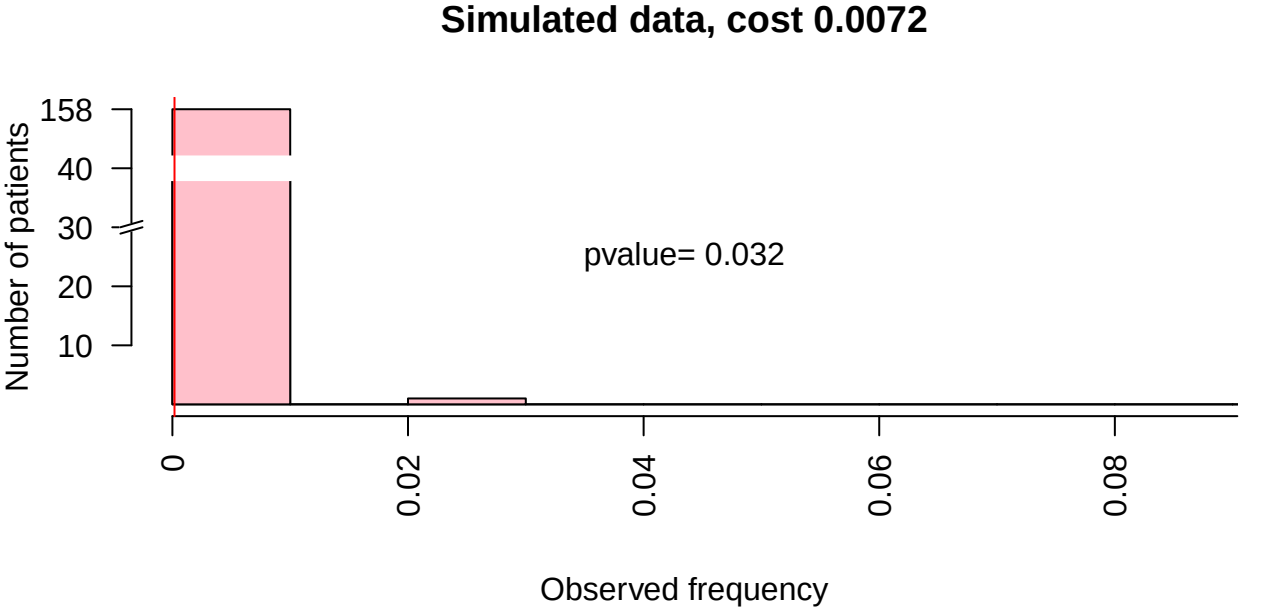

Single−SFS, site 135
Number of patients
149
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
Observed frequency

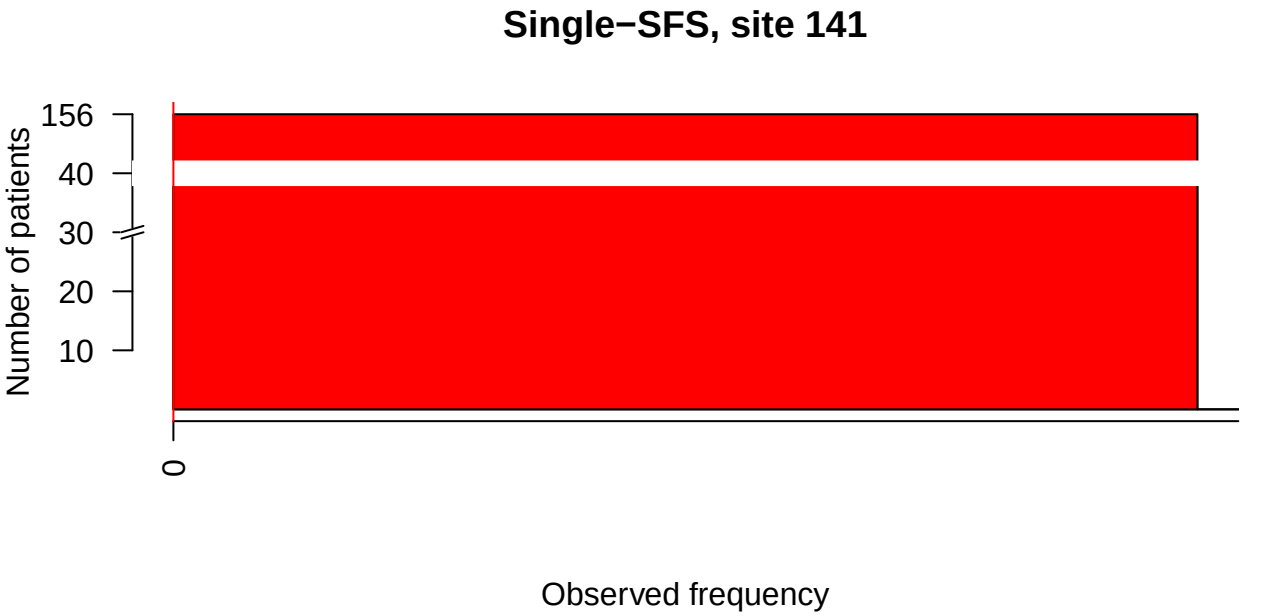

Simulated data, cost 0.0038
Number of patients
152
40
30
20
10
pvalue= 0.405
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
Observed frequency

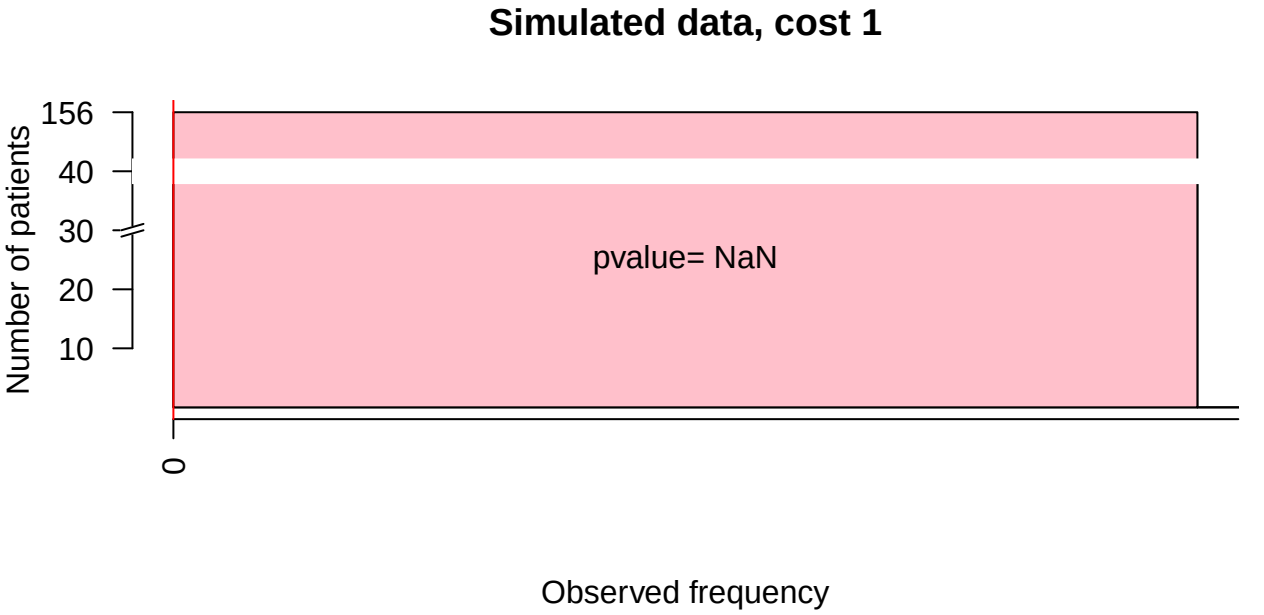

Single−SFS, site 139
Number of patients
143
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
Observed frequency

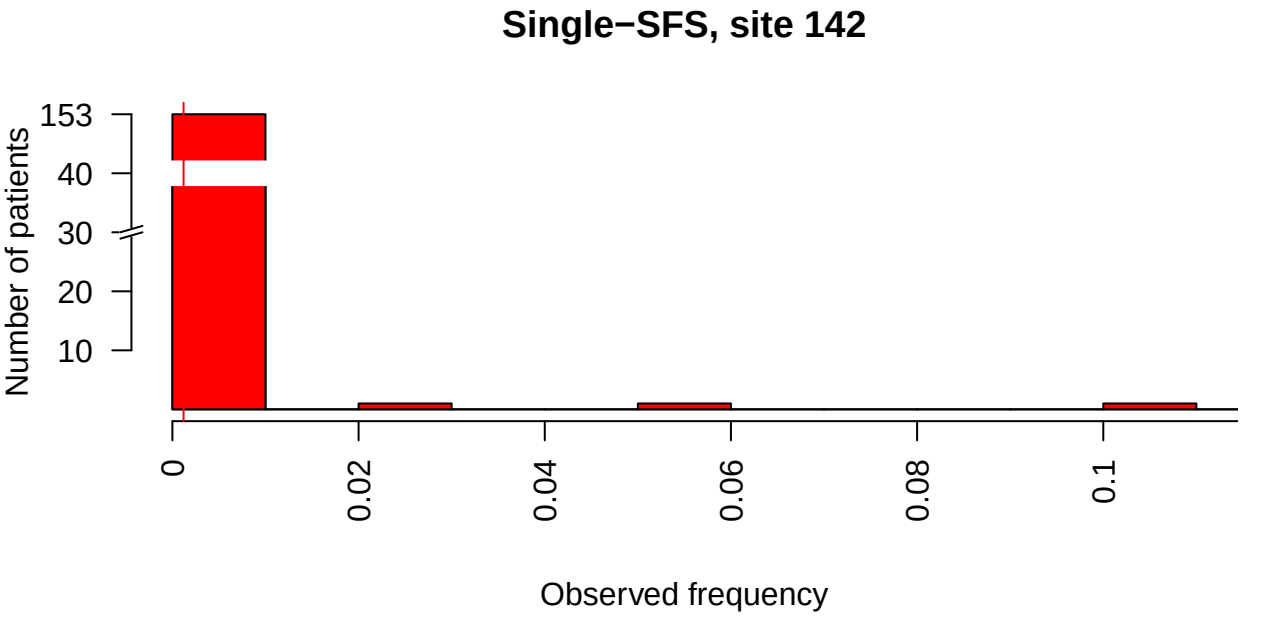

Simulated data, cost 0.003
Number of patients
149
40
30
20
10
pvalue= 0.149
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
Observed frequency

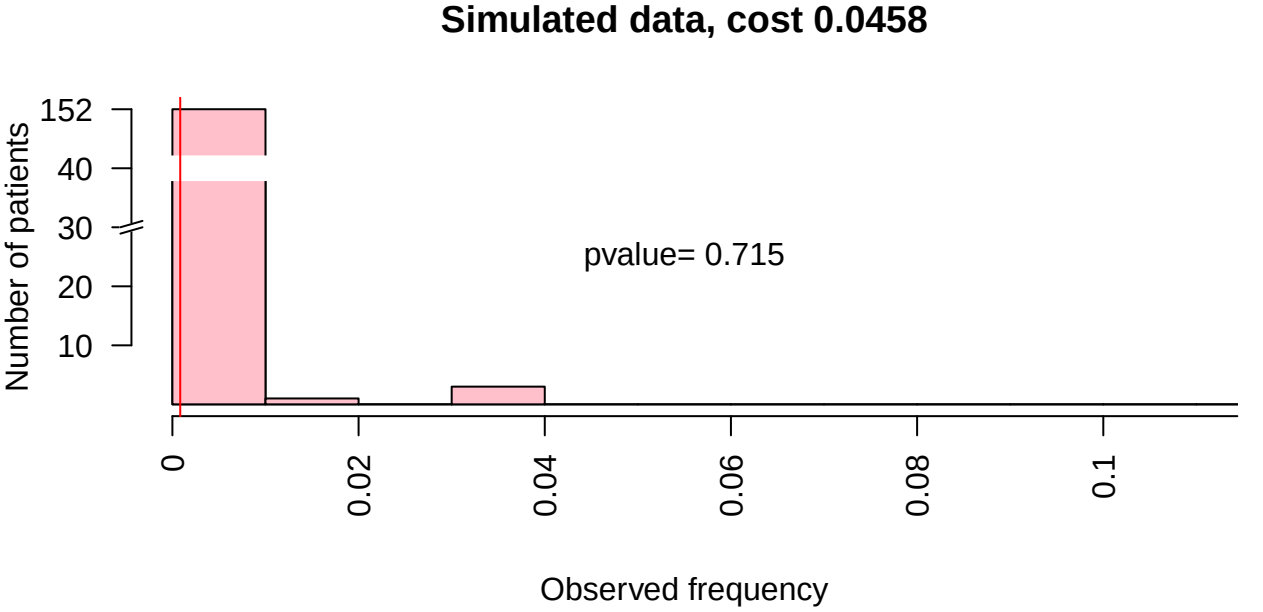

Single−SFS, site 140
Number of patients
152
40
30
20
10
0
0.02
0.04
0.06
0.08
Observed frequency

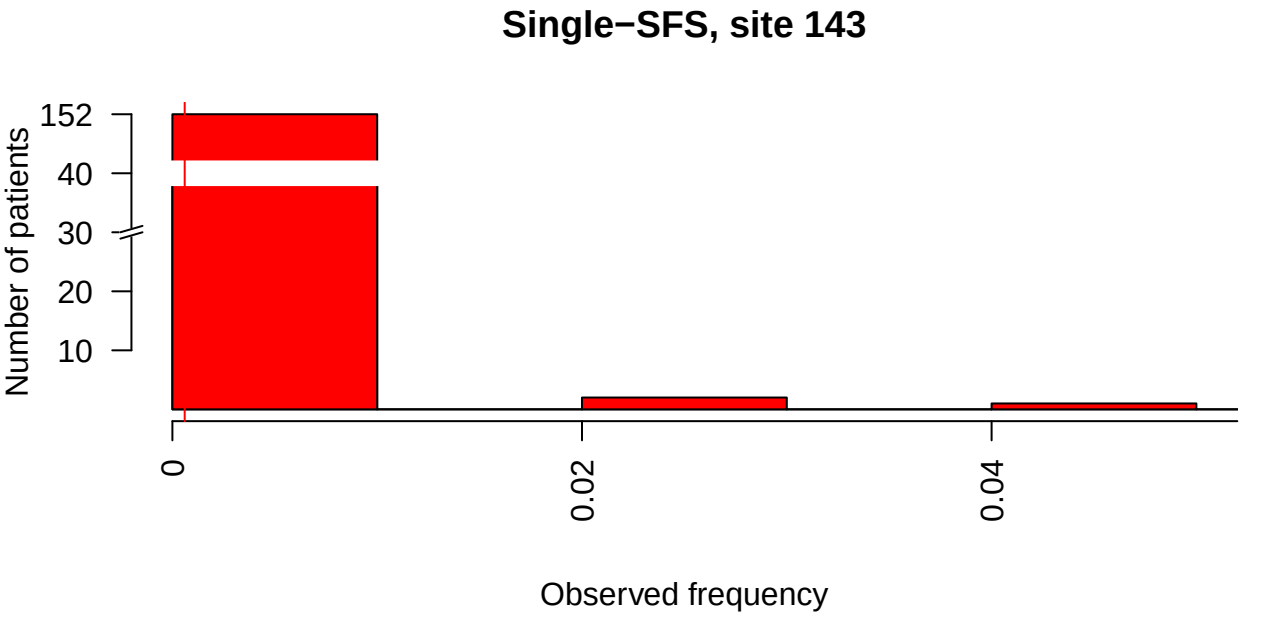

Simulated data, cost 0.0072
Number of patients
158
40
30
20
10
pvalue= 0.032
0
0.02
0.04
0.06
0.08
Observed frequency

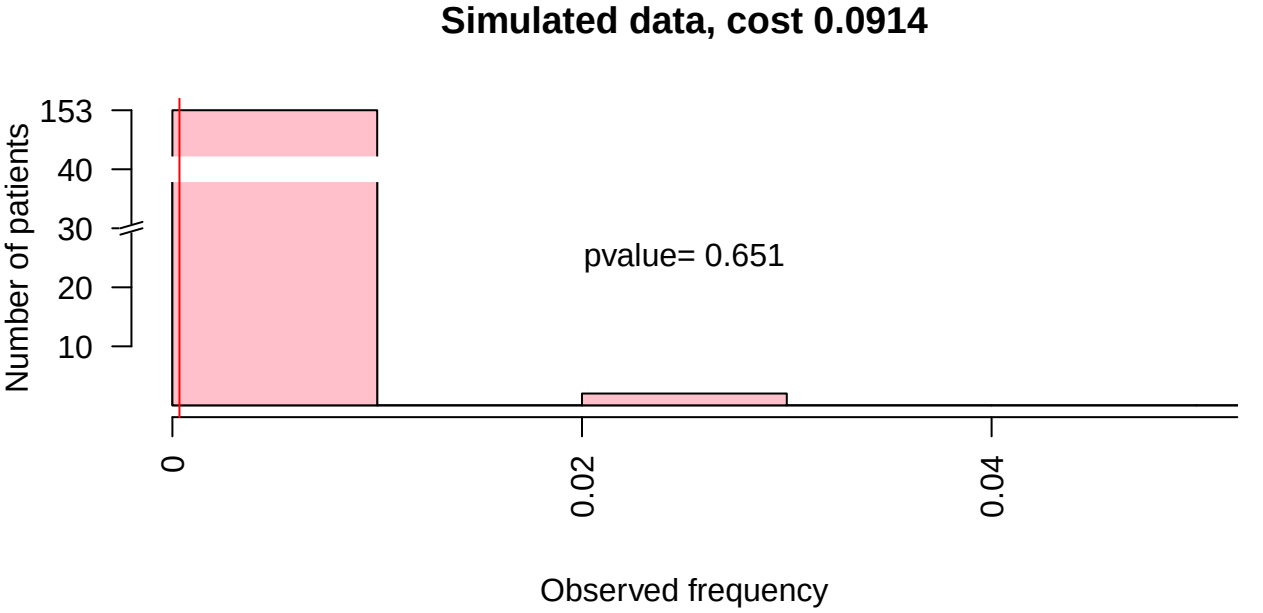

Single−SFS, site 141
Number of patients
156
40
30
20
10
0
Observed frequency

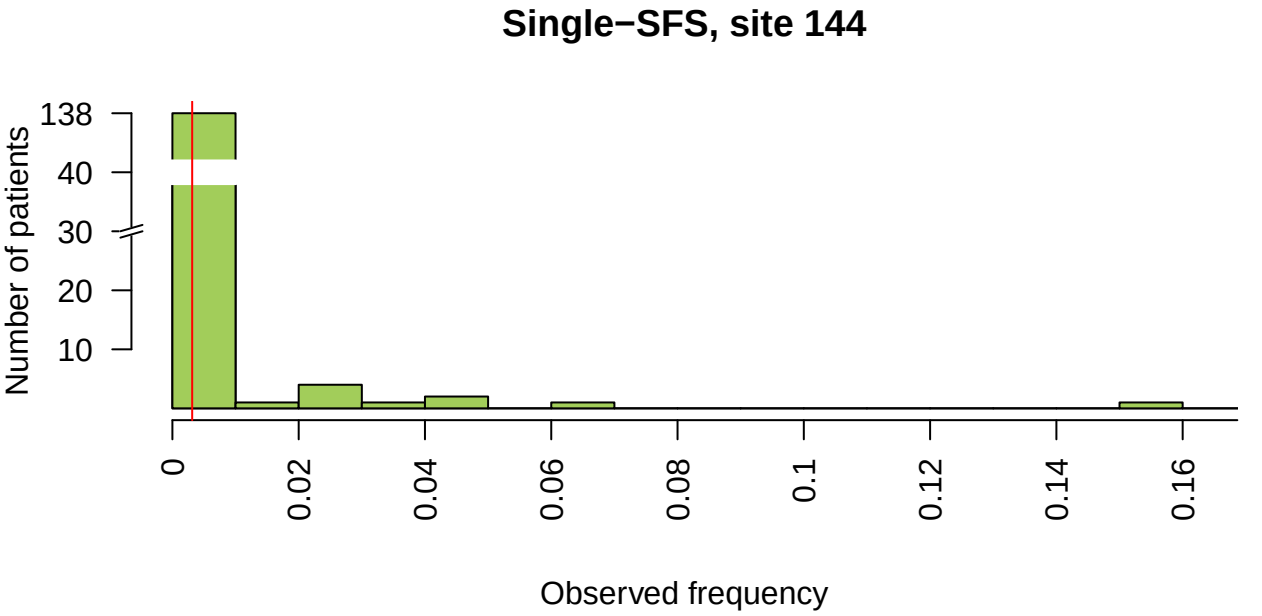

Simulated data, cost 1
Number of patients
156
40
30
20
10
0
pvalue= NaN
Observed frequency

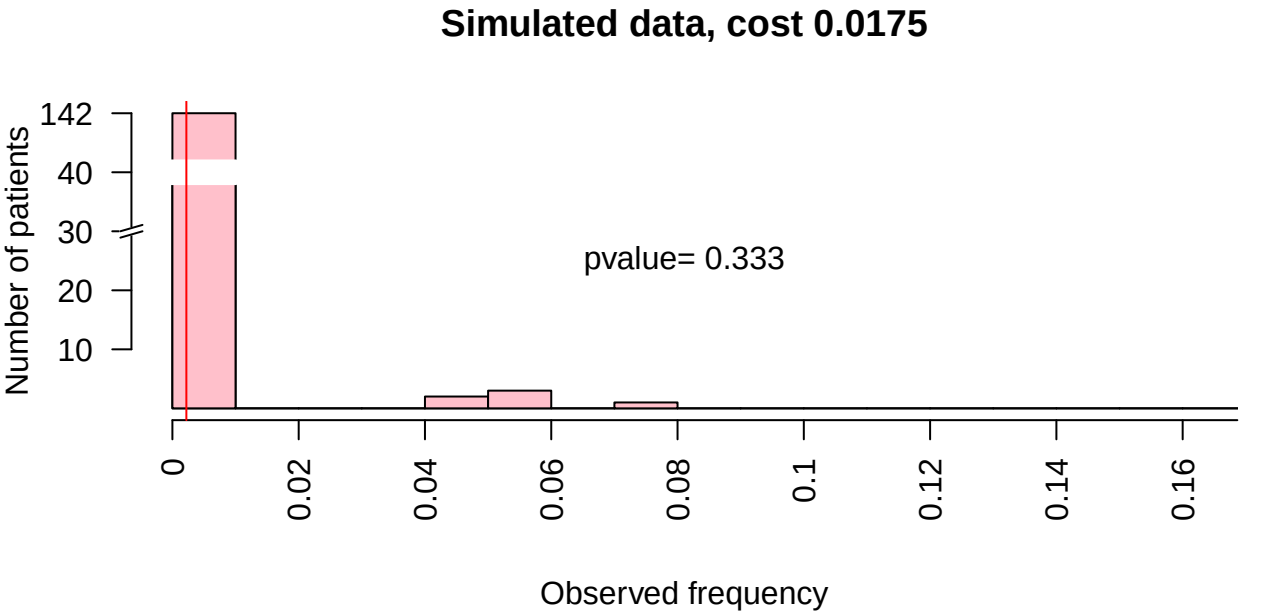

Single−SFS, site 142
Number of patients
153
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
Observed frequency

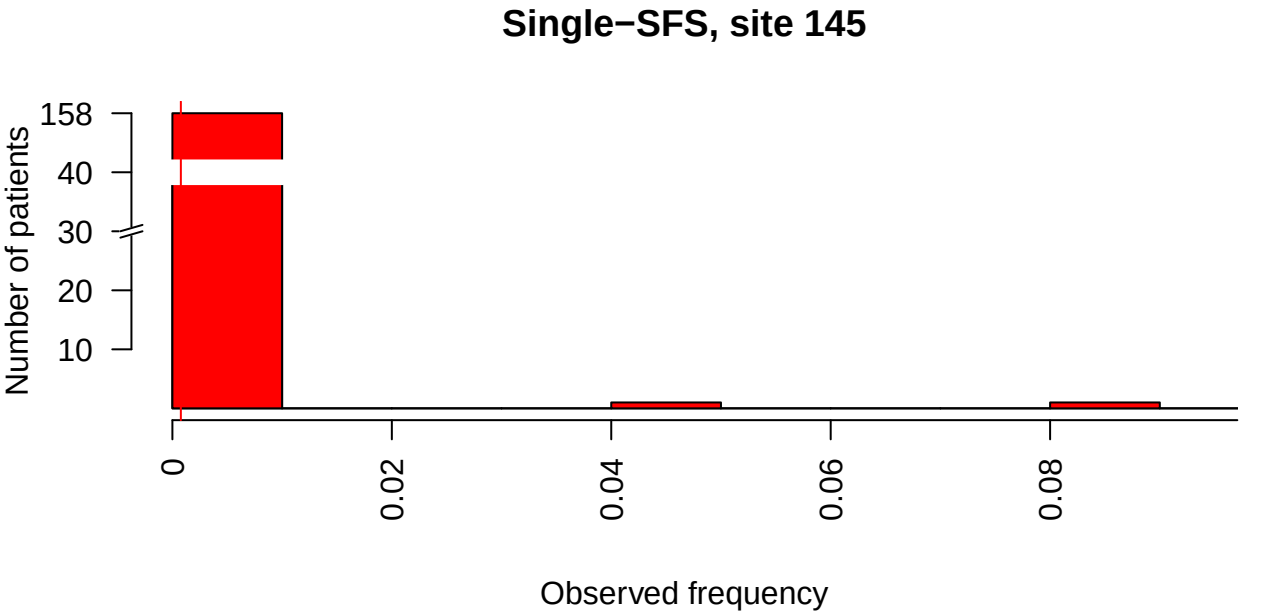

Simulated data, cost 0.0458
Number of patients
152
40
30
20
10
pvalue= 0.715
0
0.02
0.04
0.06
0.08
0.1
Observed frequency

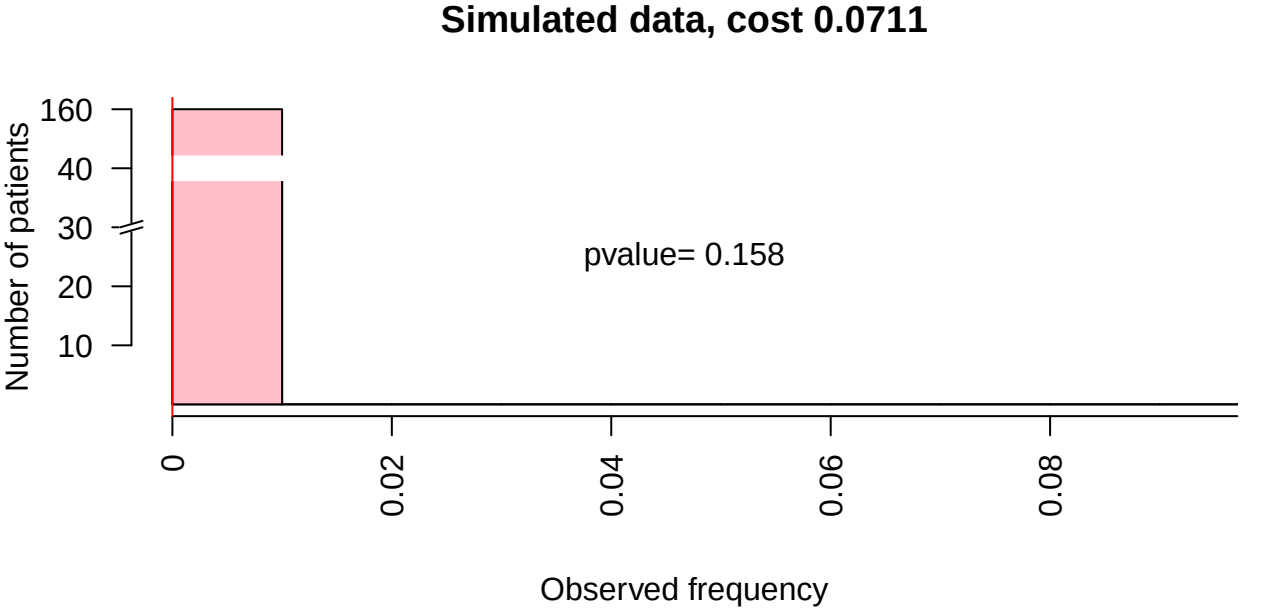

Single−SFS, site 143
Number of patients
152
40
30
20
10
0
0.02
0.04
Observed frequency

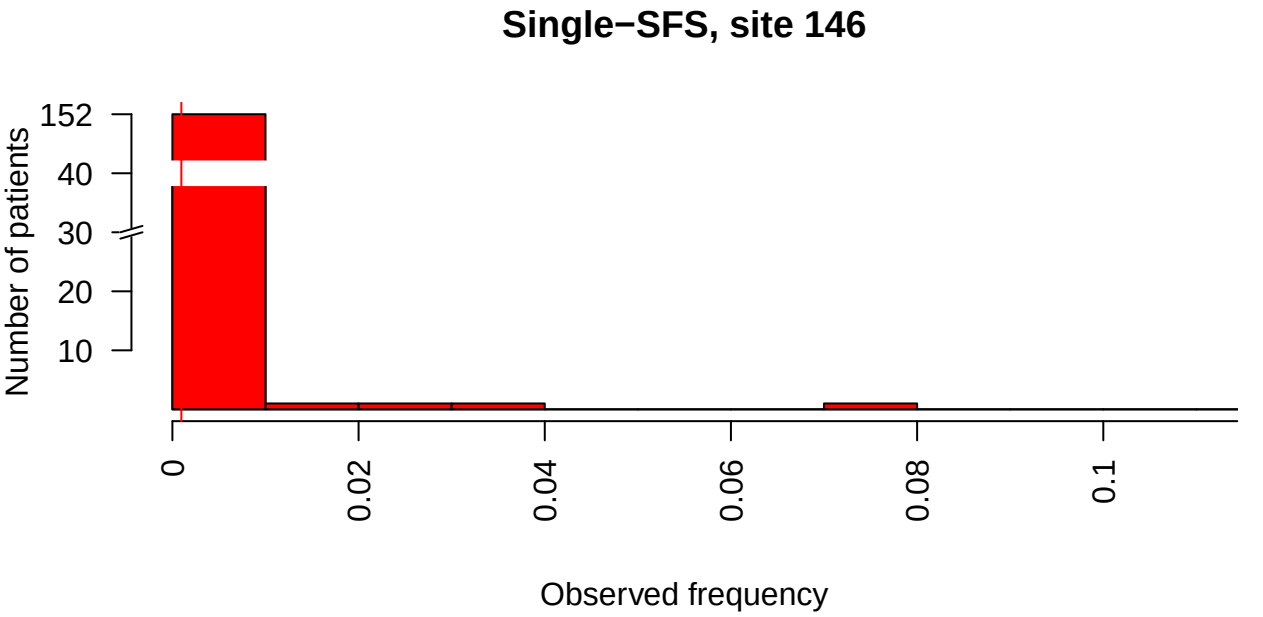

Simulated data, cost 0.0914
Number of patients
153
40
30
20
10
pvalue= 0.651
0
0.02
0.04
Observed frequency

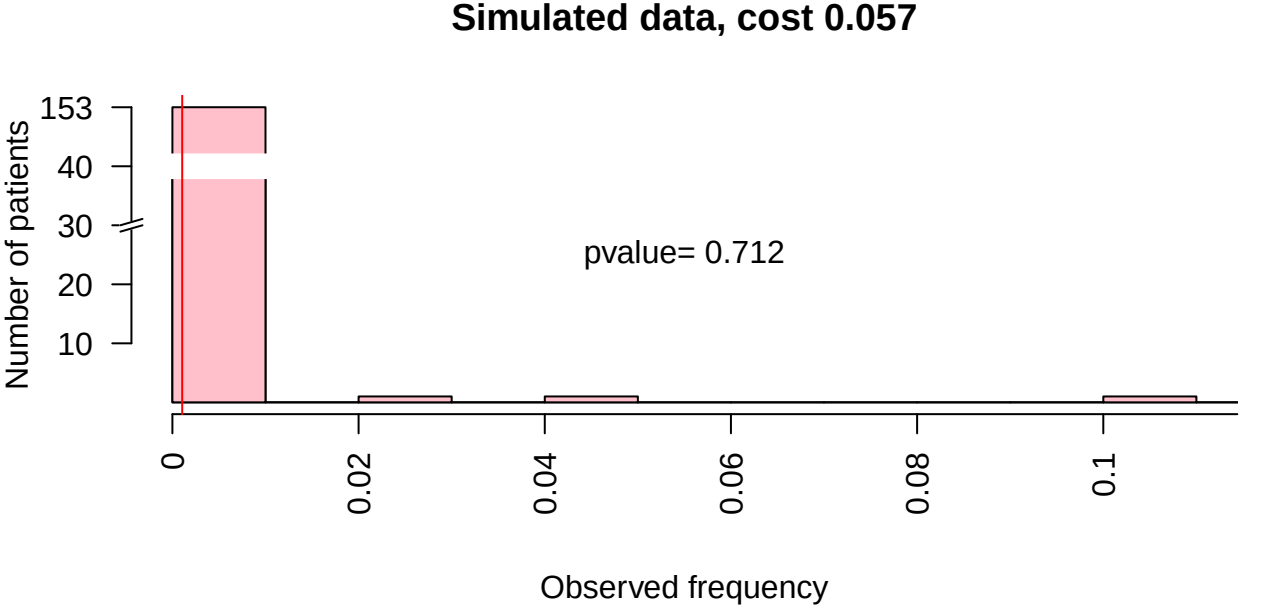

Single−SFS, site 144
Number of patients
138
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
Observed frequency

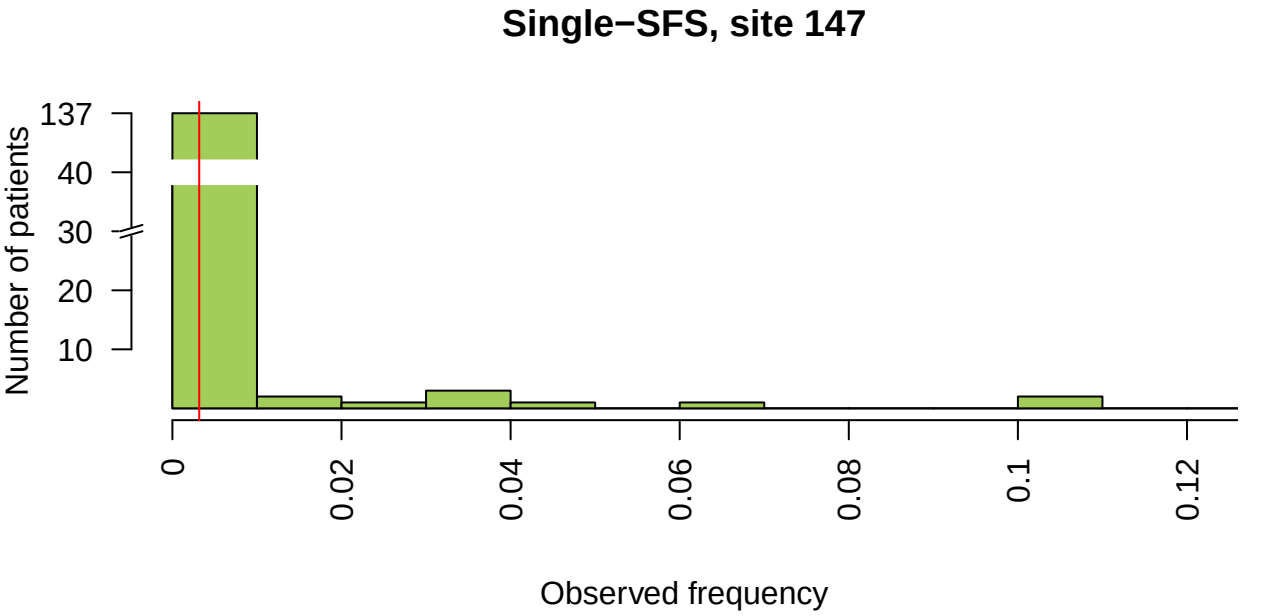

Simulated data, cost 0.0175
Number of patients
142
40
30
20
10
pvalue= 0.333
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
Observed frequency

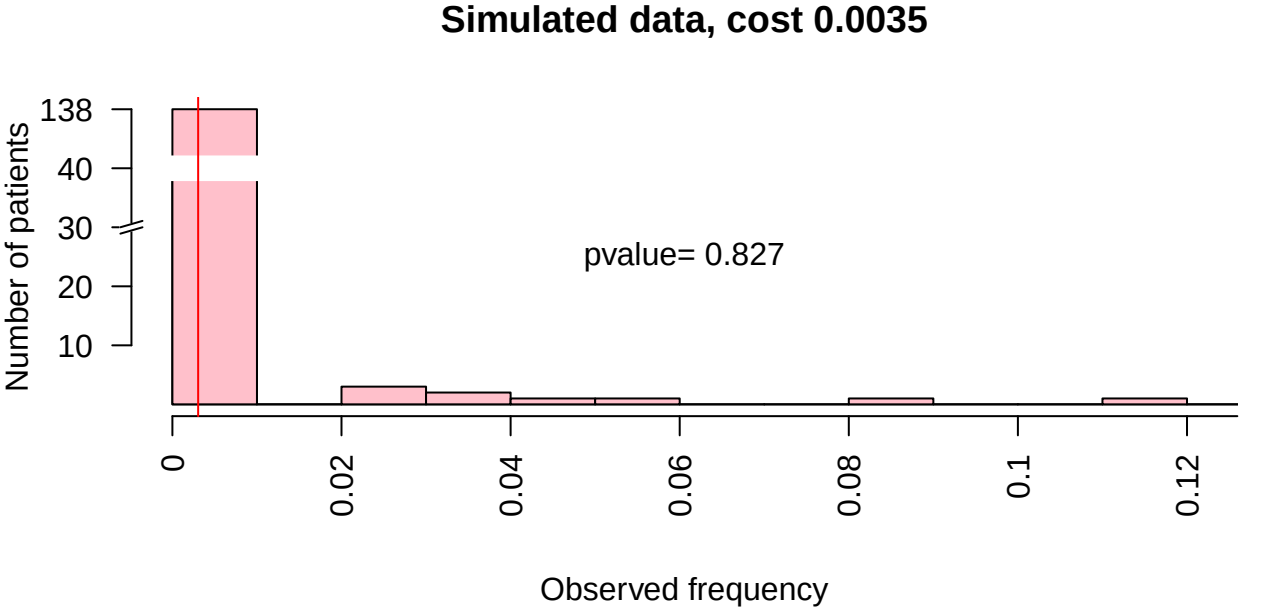

Single−SFS, site 145
Number of patients
158
40
30
20
10
0
0.02
0.04
0.06
0.08
Observed frequency

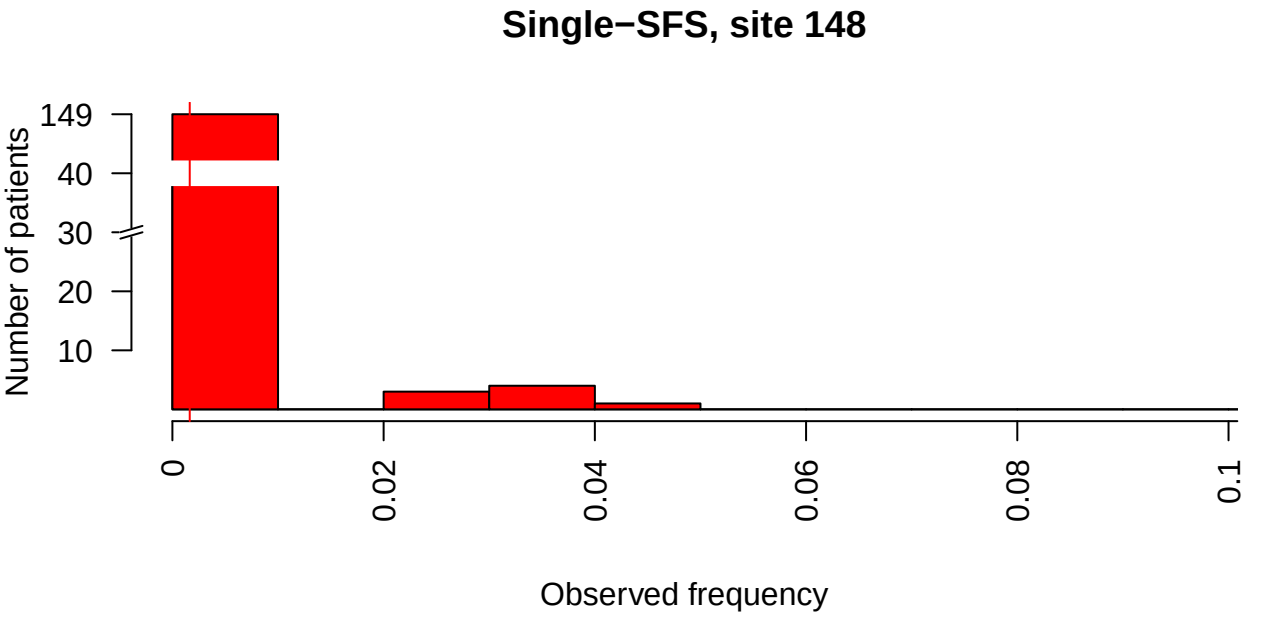

Simulated data, cost 0.0711
Number of patients
160
40
30
20
10
pvalue= 0.158
0
0.02
0.04
0.06
0.08
Observed frequency

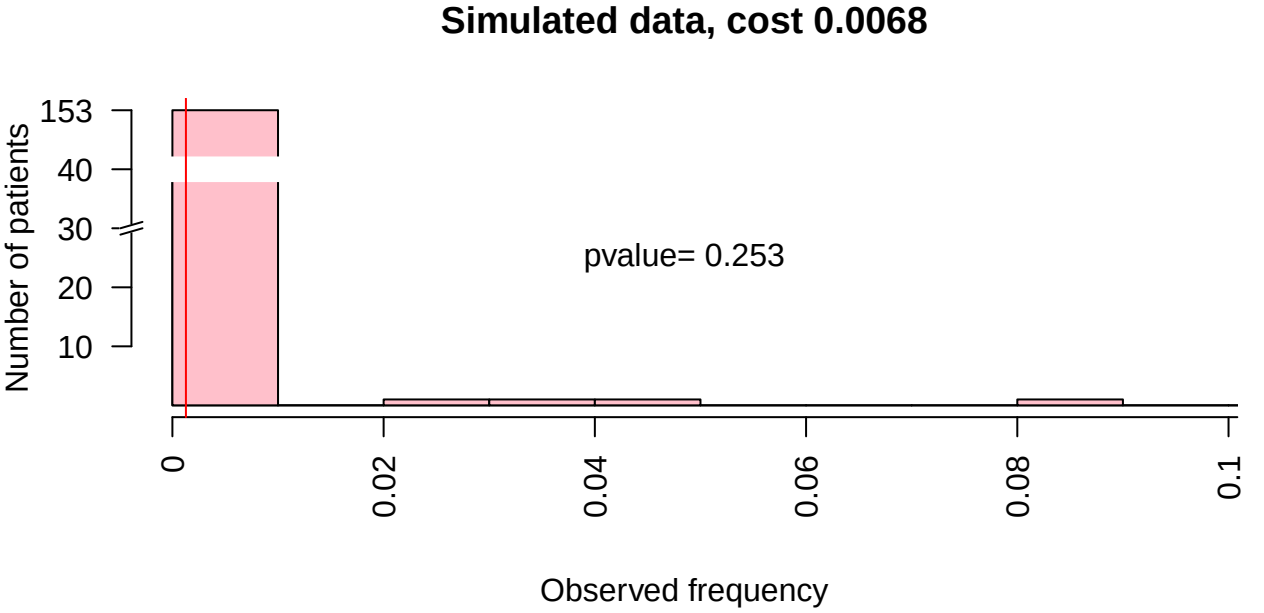

Single−SFS, site 146
Number of patients
152
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
Observed frequency

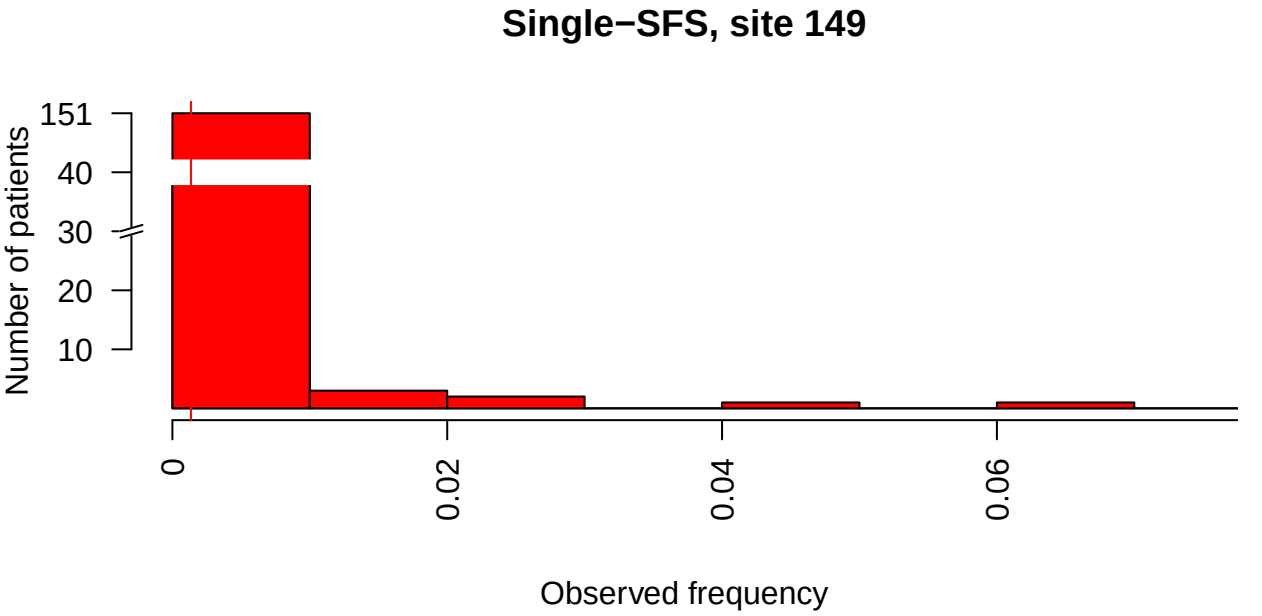

Simulated data, cost 0.057
Number of patients
153
40
30
20
10
pvalue= 0.712
0
0.02
0.04
0.06
0.08
0.1
Observed frequency

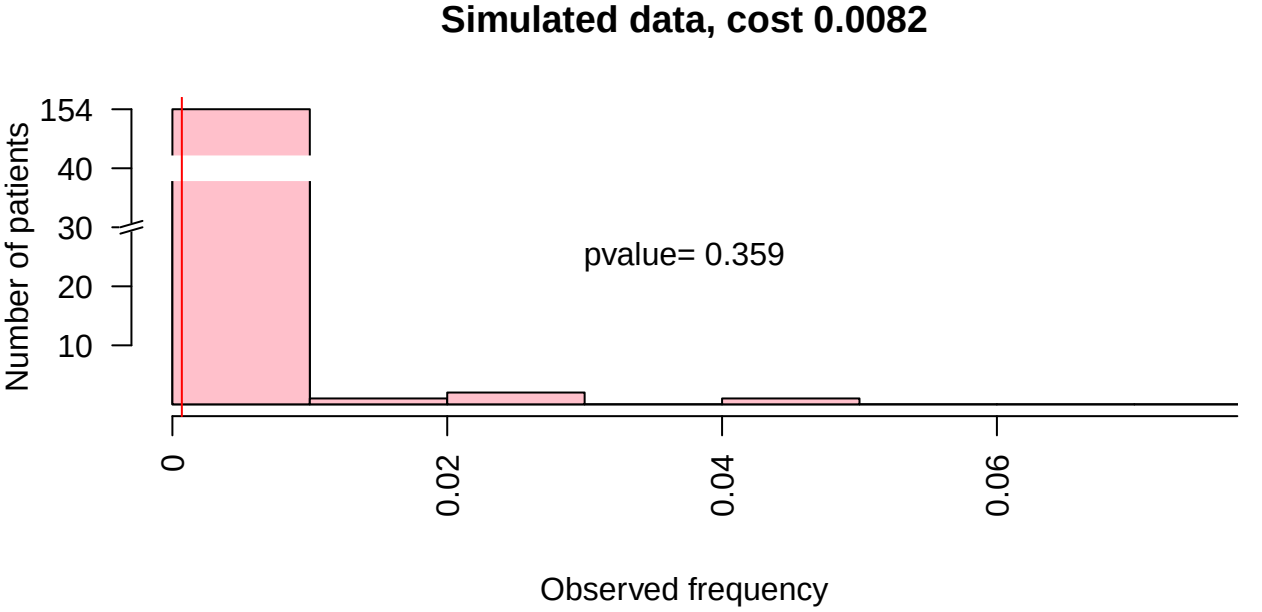

Single−SFS, site 147
Number of patients
137
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
Observed frequency

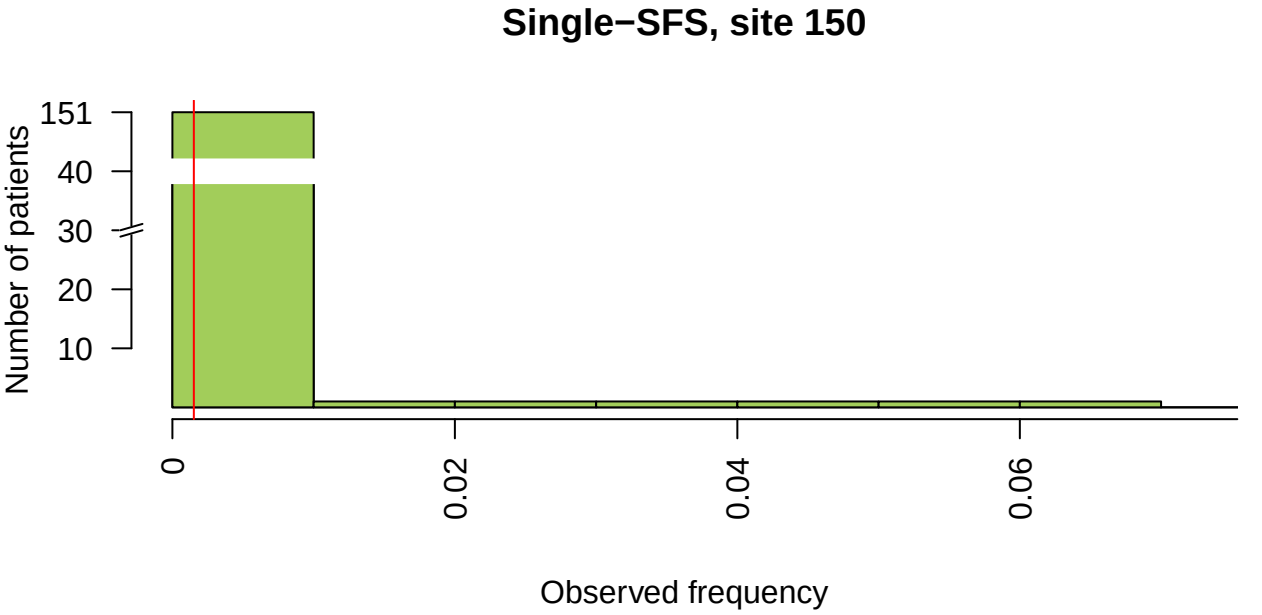

Simulated data, cost 0.0035
Number of patients
138
40
30
20
10
pvalue= 0.827
0
0.02
0.04
0.06
0.08
0.1
0.12
Observed frequency

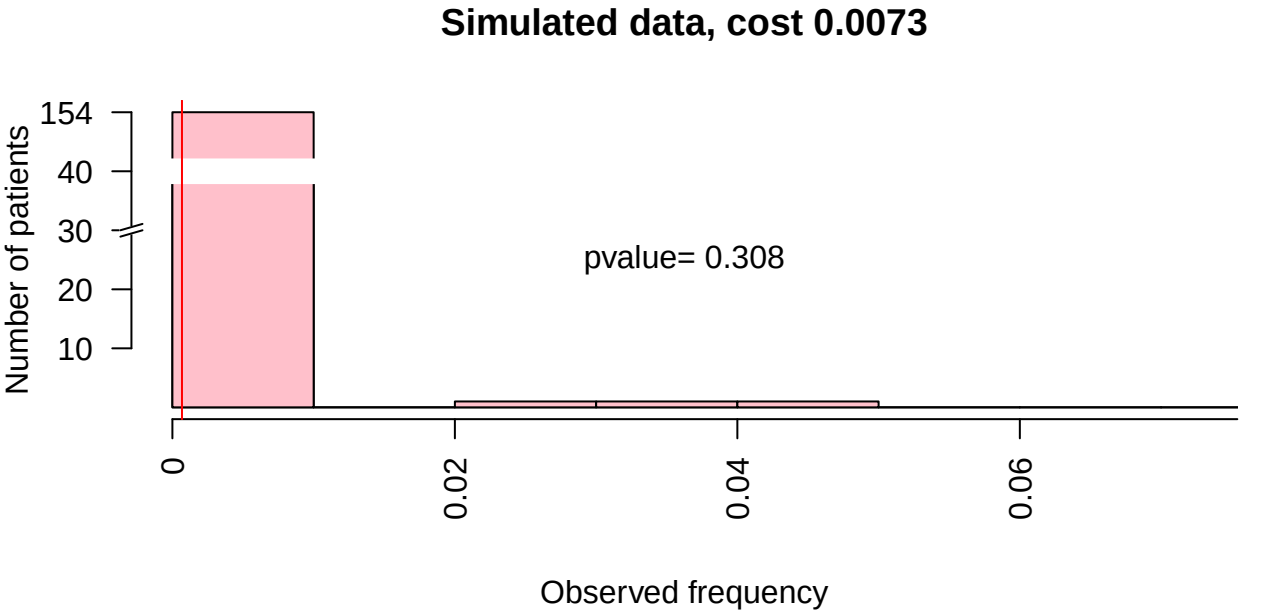

Single−SFS, site 148
Number of patients
149
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
Observed frequency

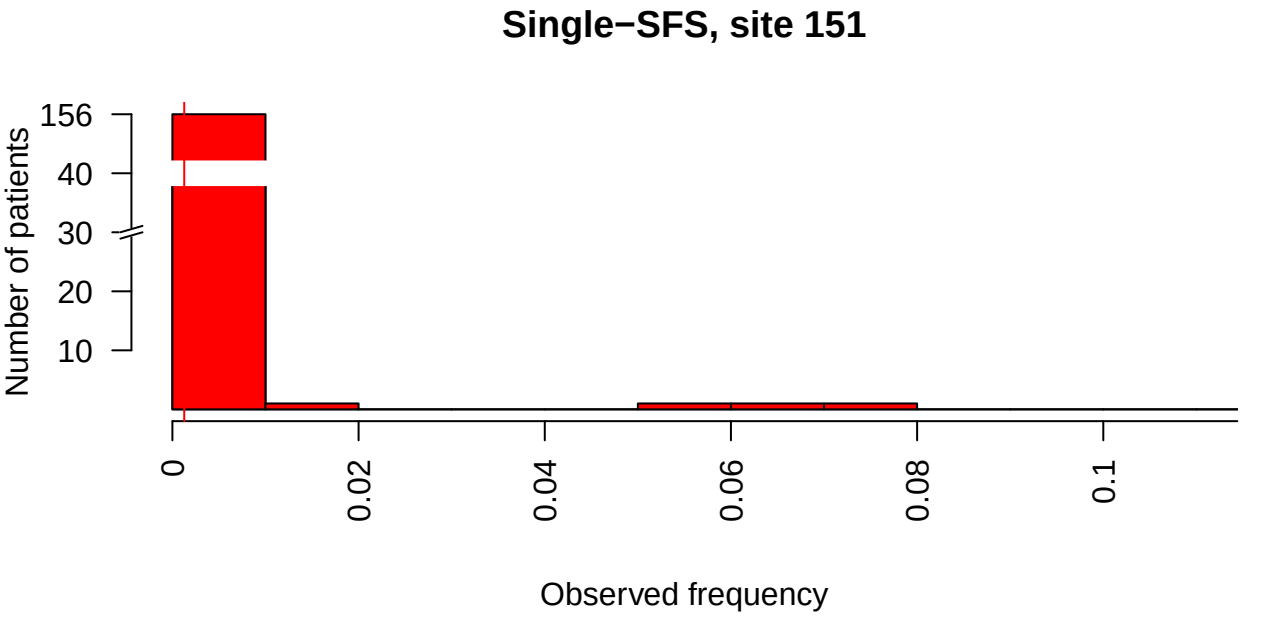

Simulated data, cost 0.0068
Number of patients
153
40
30
20
10
pvalue= 0.253
0
0.02
0.04
0.06
0.08
0.1
Observed frequency

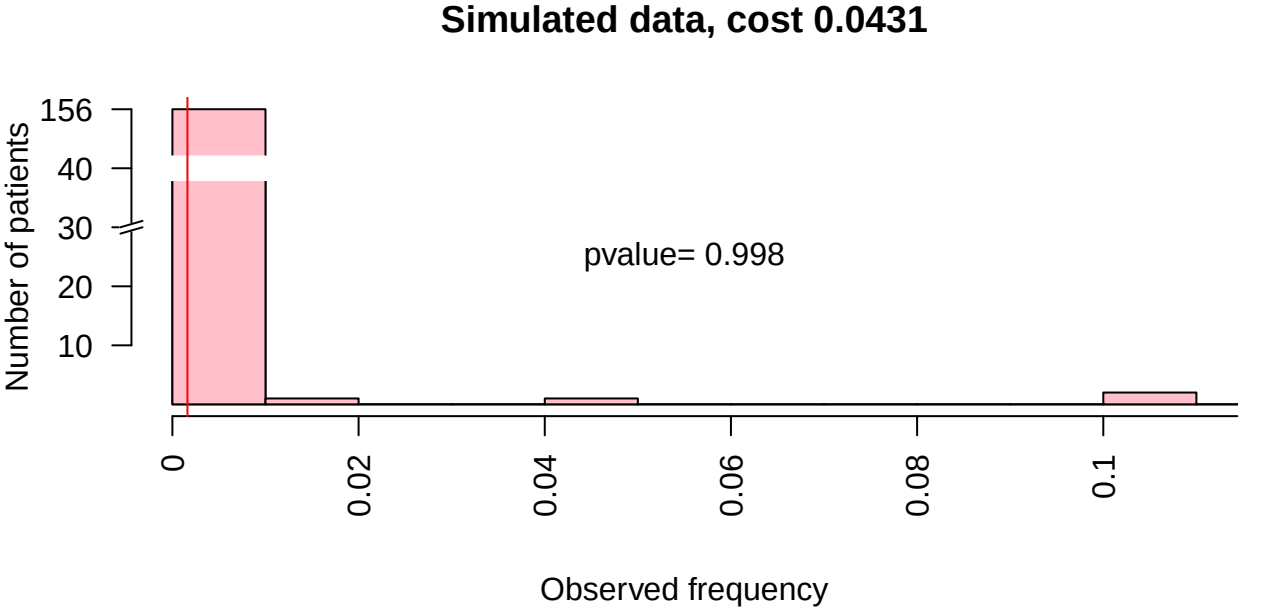

Single−SFS, site 149
Number of patients
151
40
30
20
10
0
0.02
0.04
0.06
Observed frequency

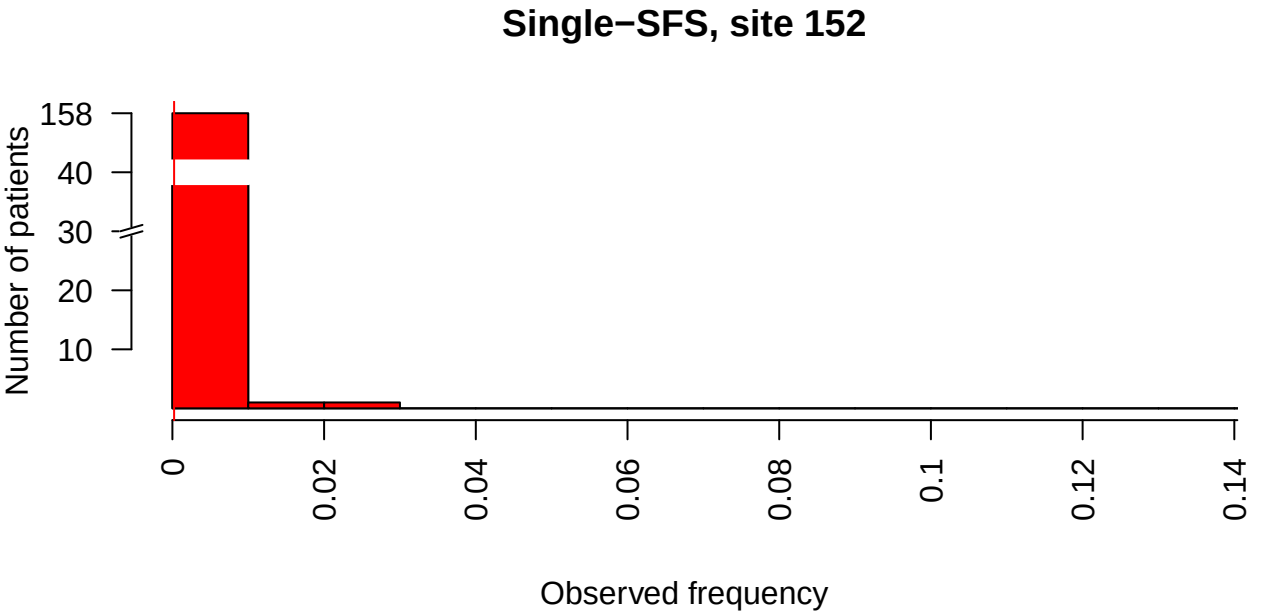

Simulated data, cost 0.0082
Number of patients
154
40
30
20
10
pvalue= 0.359
0
0.02
0.04
0.06
Observed frequency

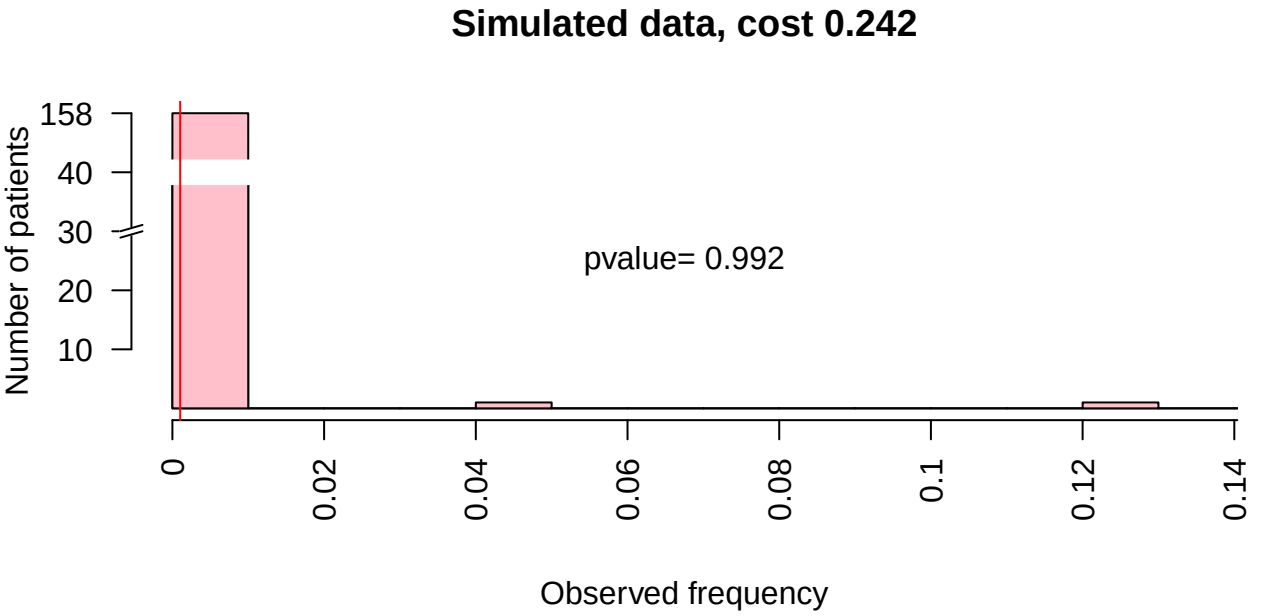

Single−SFS, site 150
Number of patients
151
40
30
20
10
0
0.02
0.04
0.06
Observed frequency

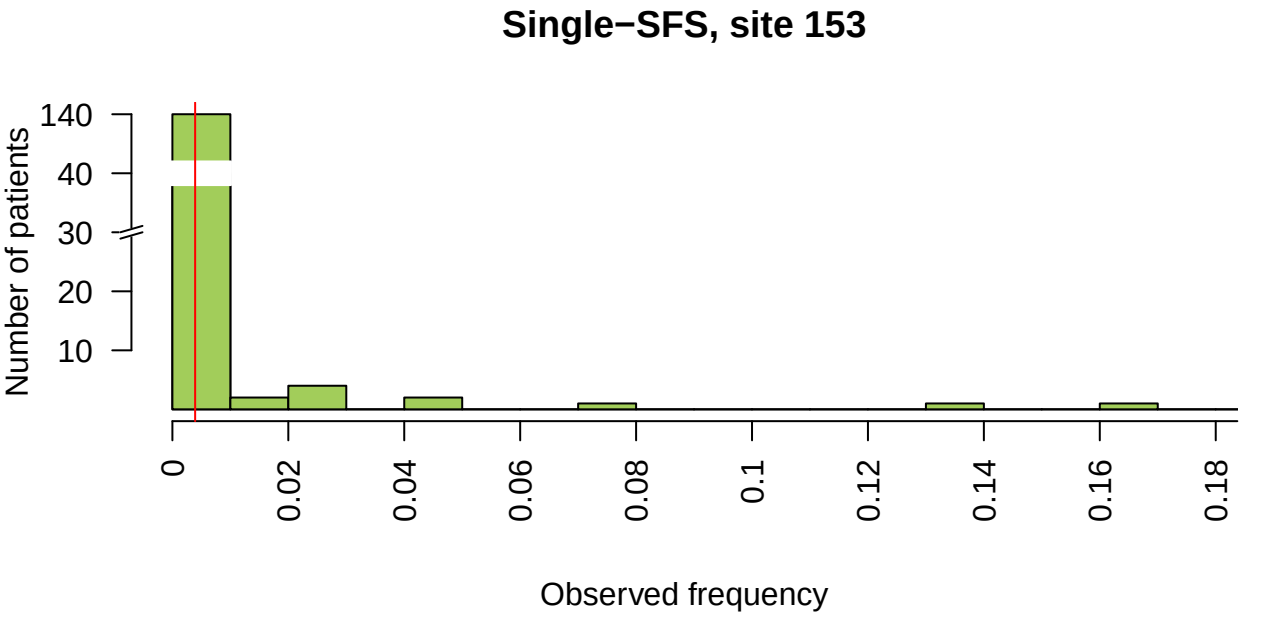

Simulated data, cost 0.0073
Number of patients
154
40
30
20
10
pvalue= 0.308
0
0.02
0.04
0.06
Observed frequency

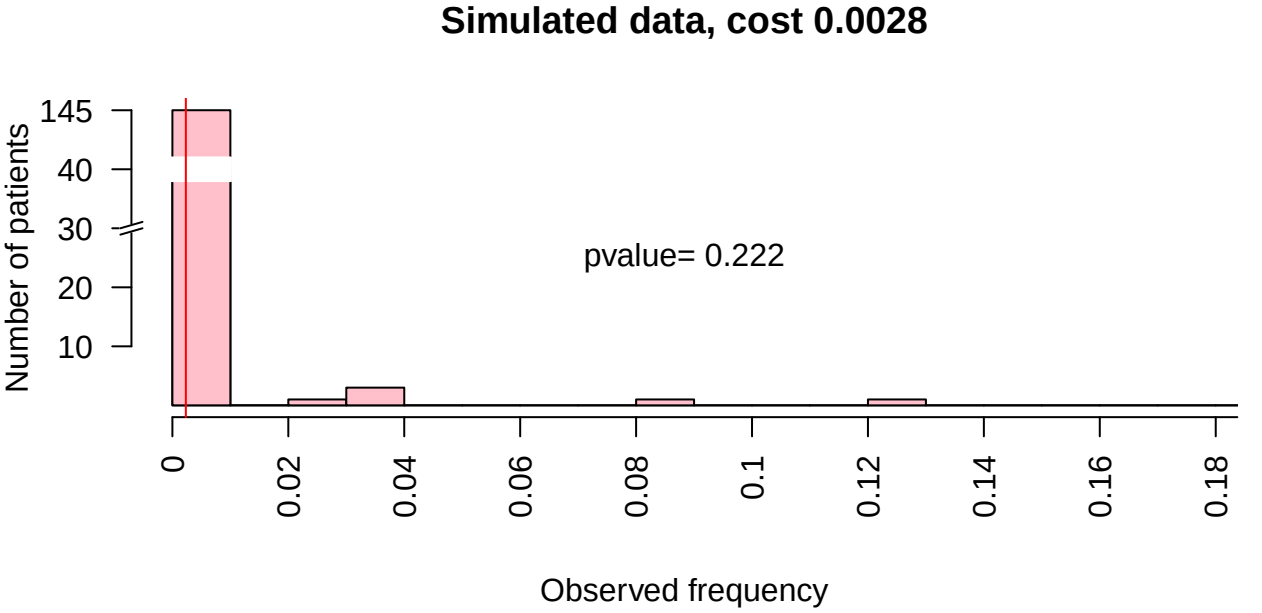

Single−SFS, site 151
Number of patients
156
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
Observed frequency

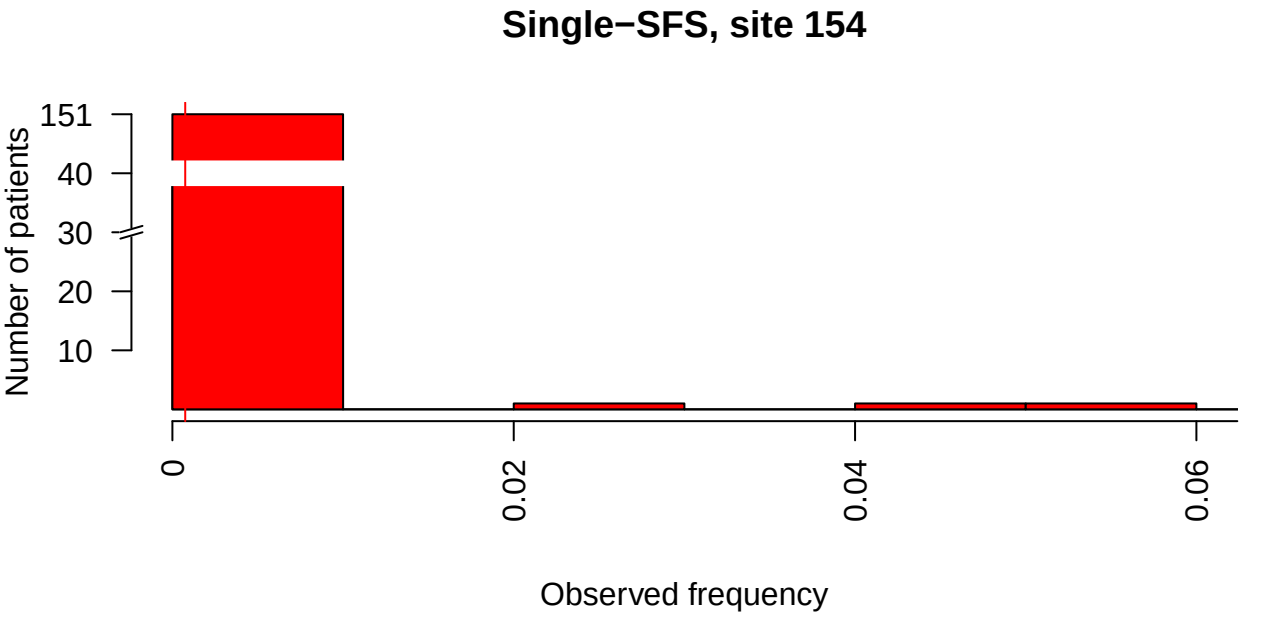

Simulated data, cost 0.0431
Number of patients
156
40
30
20
10
pvalue= 0.998
0
0.02
0.04
0.06
0.08
0.1
Observed frequency

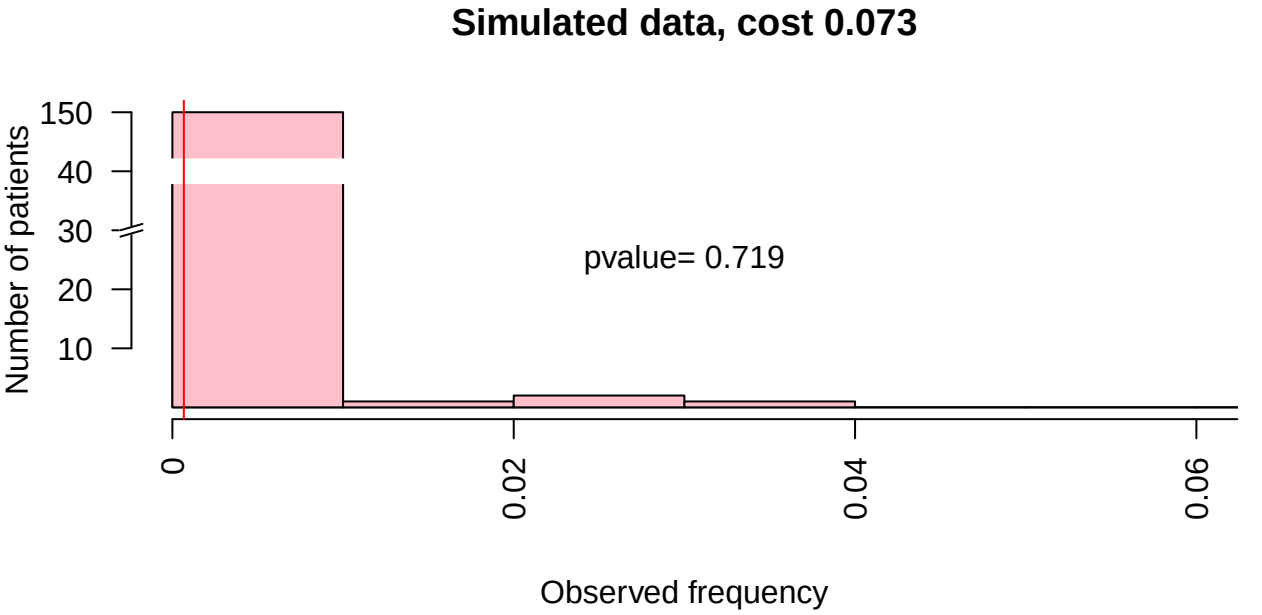

Single−SFS, site 152
Number of patients
158
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
Observed frequency

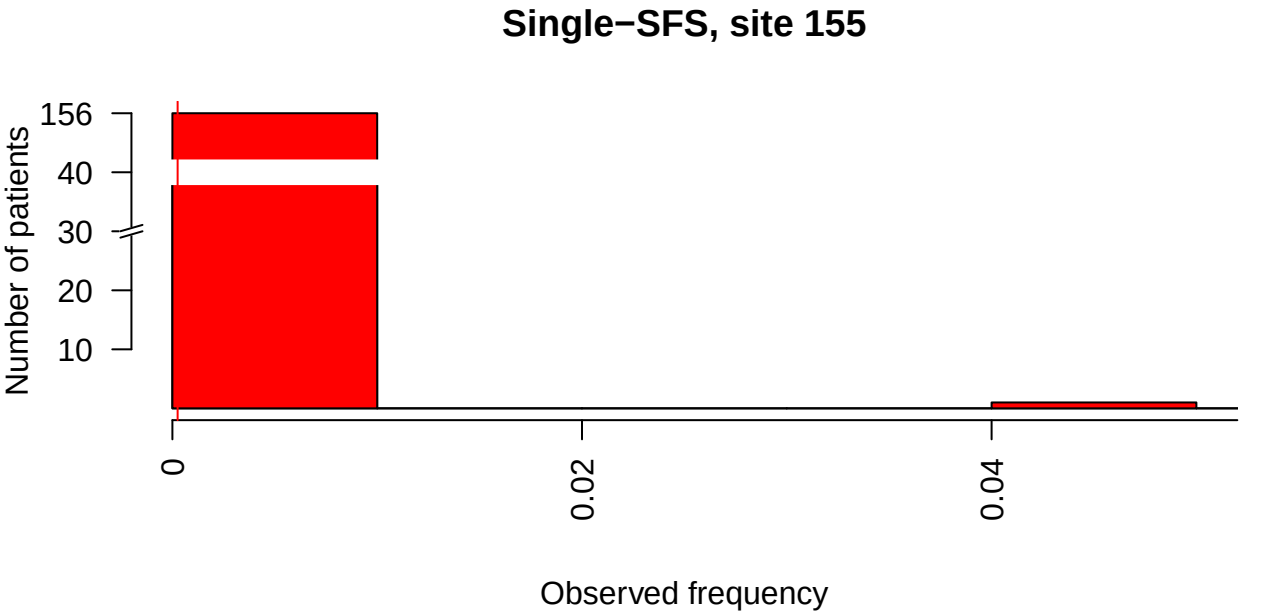

Simulated data, cost 0.242
Number of patients
158
40
30
20
10
pvalue= 0.992
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
Observed frequency

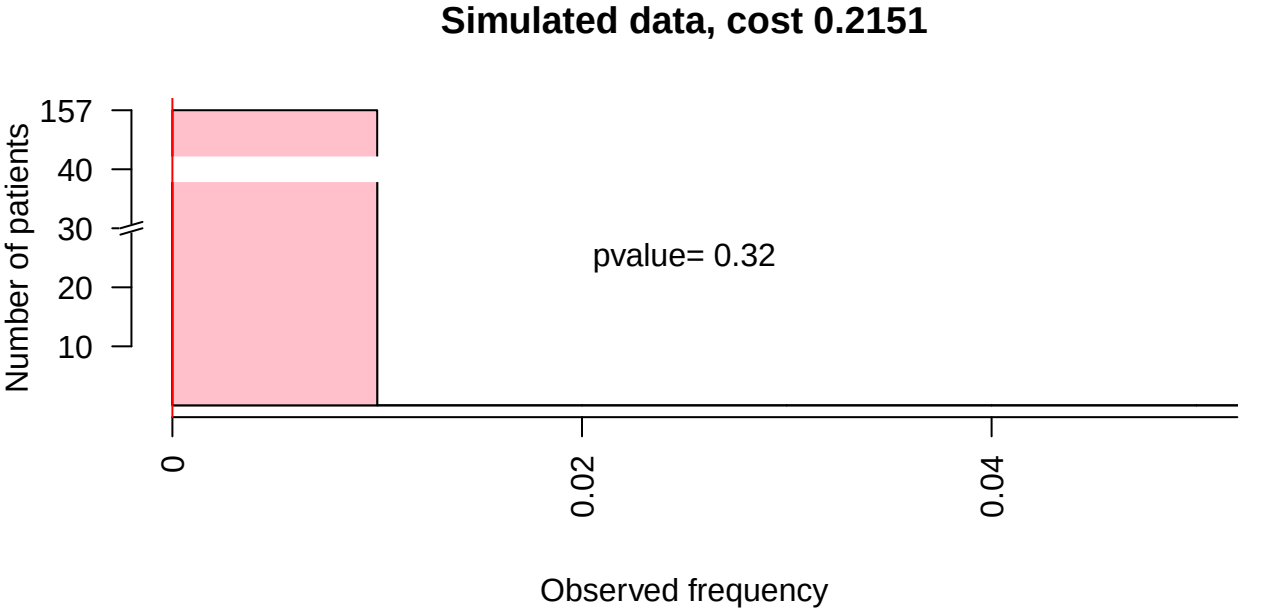

Single−SFS, site 153
Number of patients
140
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
Observed frequency

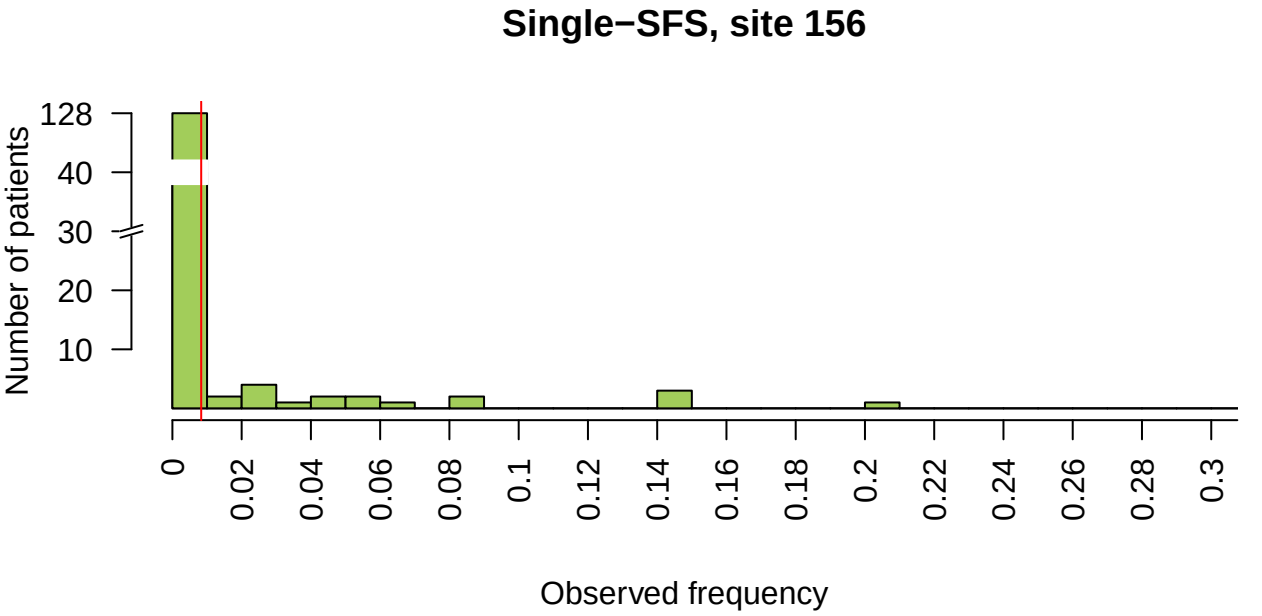

Simulated data, cost 0.0028
Number of patients
145
40
30
20
10
pvalue= 0.222
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
Observed frequency

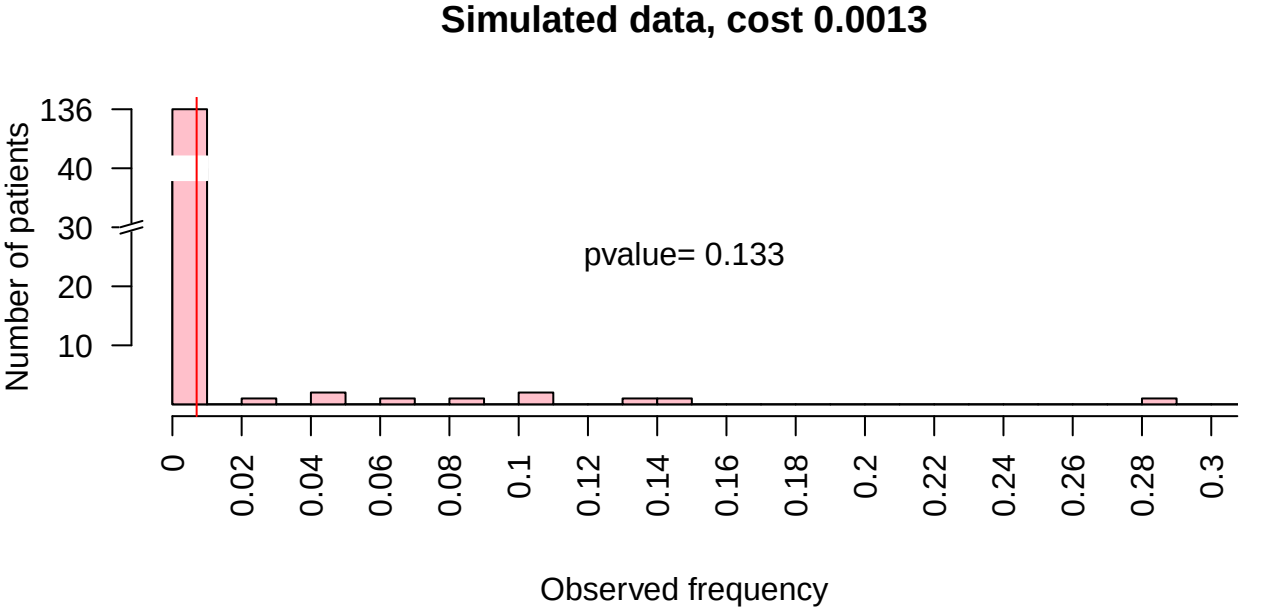

Single−SFS, site 154
Number of patients
151
40
30
20
10
0
0.02
0.04
0.06
Observed frequency

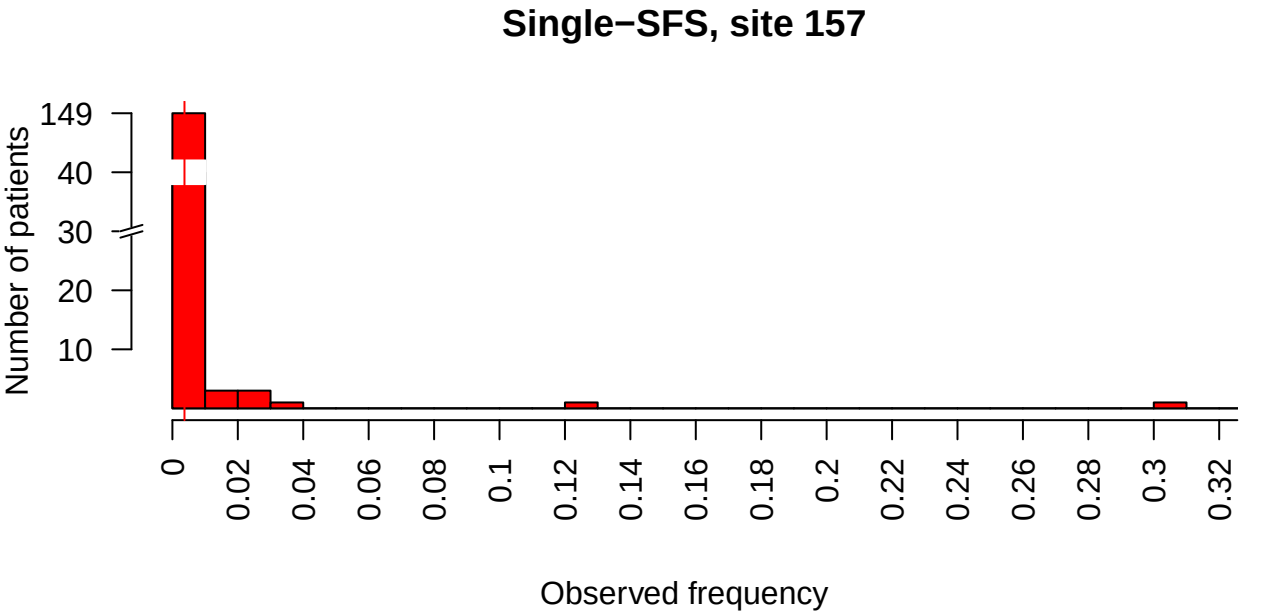

Simulated data, cost 0.073
Number of patients
150
40
30
20
10
pvalue= 0.719
0
0.02
0.04
0.06
Observed frequency

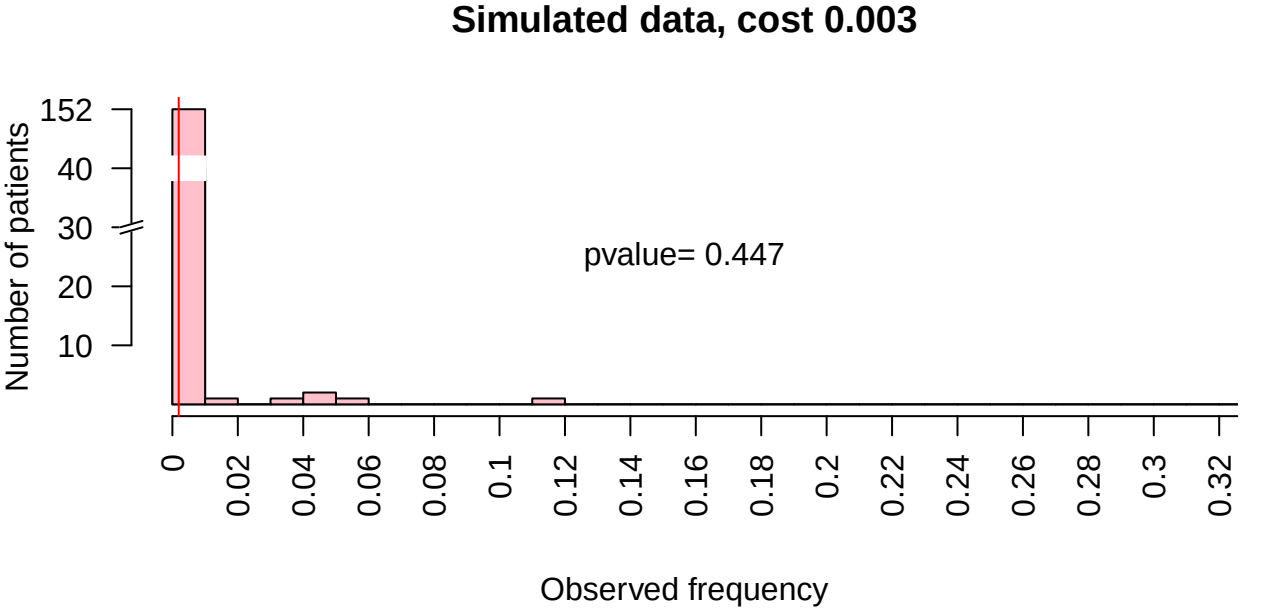

Single−SFS, site 155
Number of patients
156
40
30
20
10
0
0.02
0.04
Observed frequency

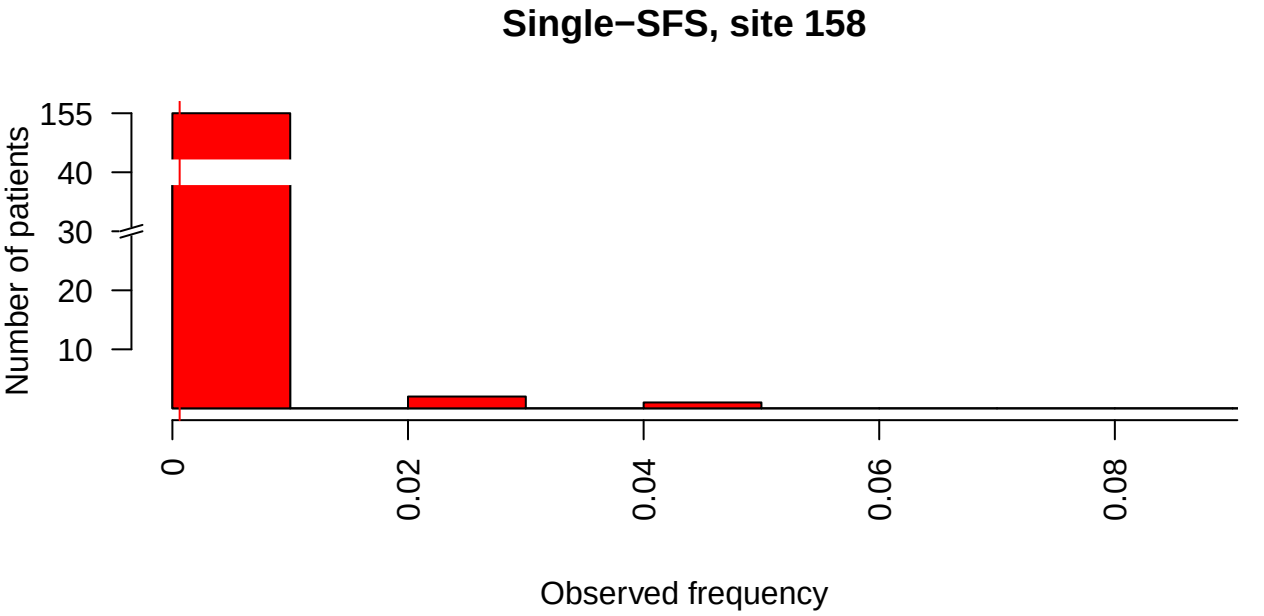

Simulated data, cost 0.2151
Number of patients
157
40
30
20
10
pvalue= 0.32
0
0.02
0.04
Observed frequency

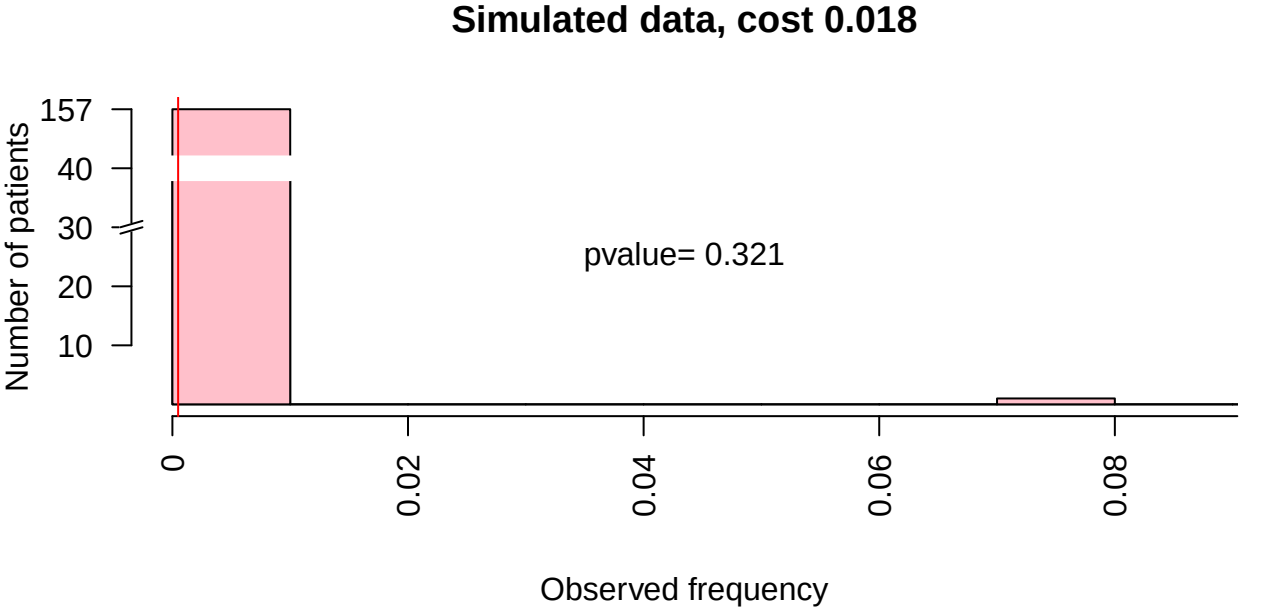

Single−SFS, site 156
Number of patients
128
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
0.24
0.26
0.28
0.3
Observed frequency

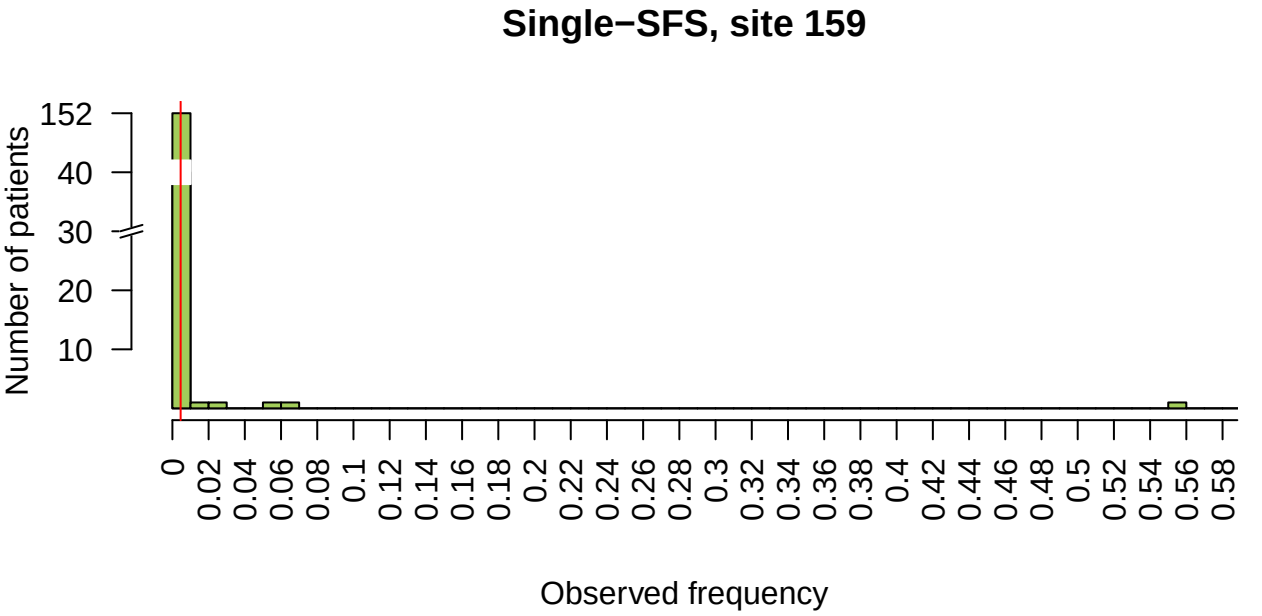

Simulated data, cost 0.0013
Number of patients
136
40
30
20
10
pvalue= 0.133
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
0.24
0.26
0.28
0.3
Observed frequency

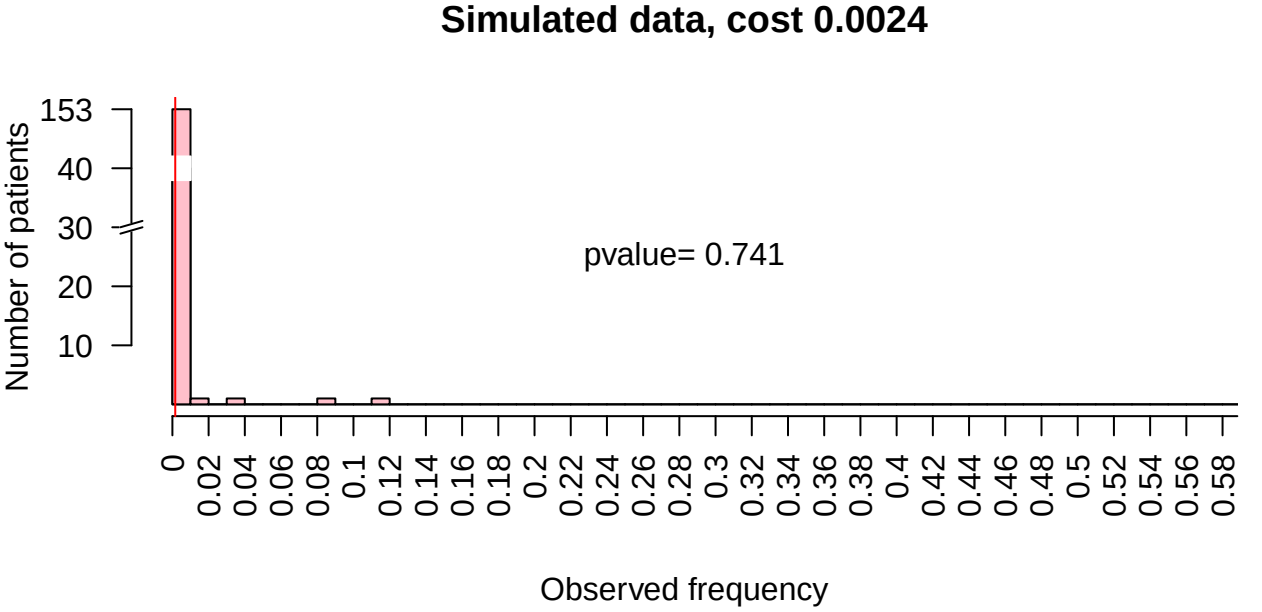

Single−SFS, site 157
Number of patients
149
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
0.24
0.26
0.28
0.3
0.32
Observed frequency

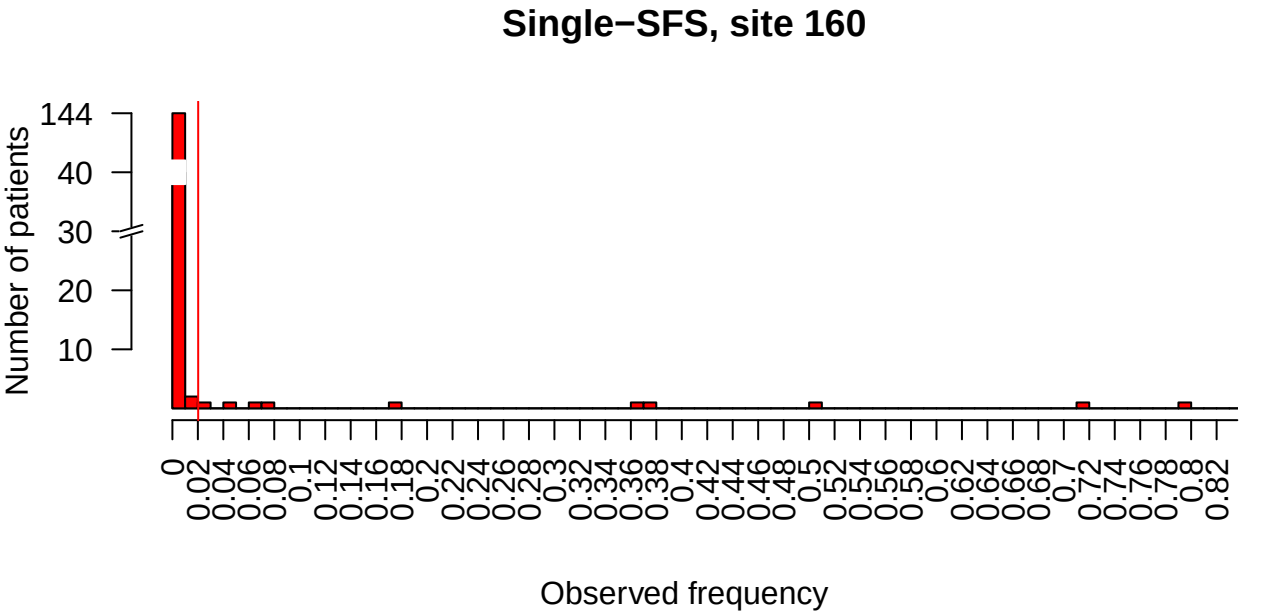

Simulated data, cost 0.003
Number of patients
152
40
30
20
10
pvalue= 0.447
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
0.24
0.26
0.28
0.3
0.32
Observed frequency

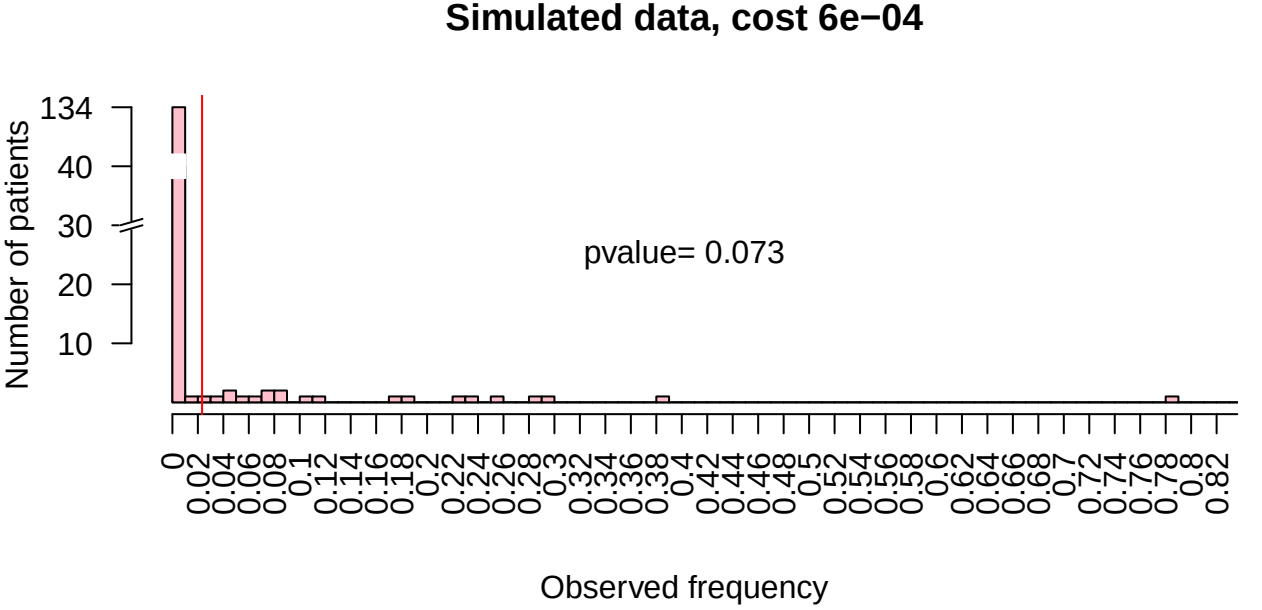

Single−SFS, site 158
Number of patients
155
40
30
20
10
0
0.02
0.04
0.06
0.08
Observed frequency

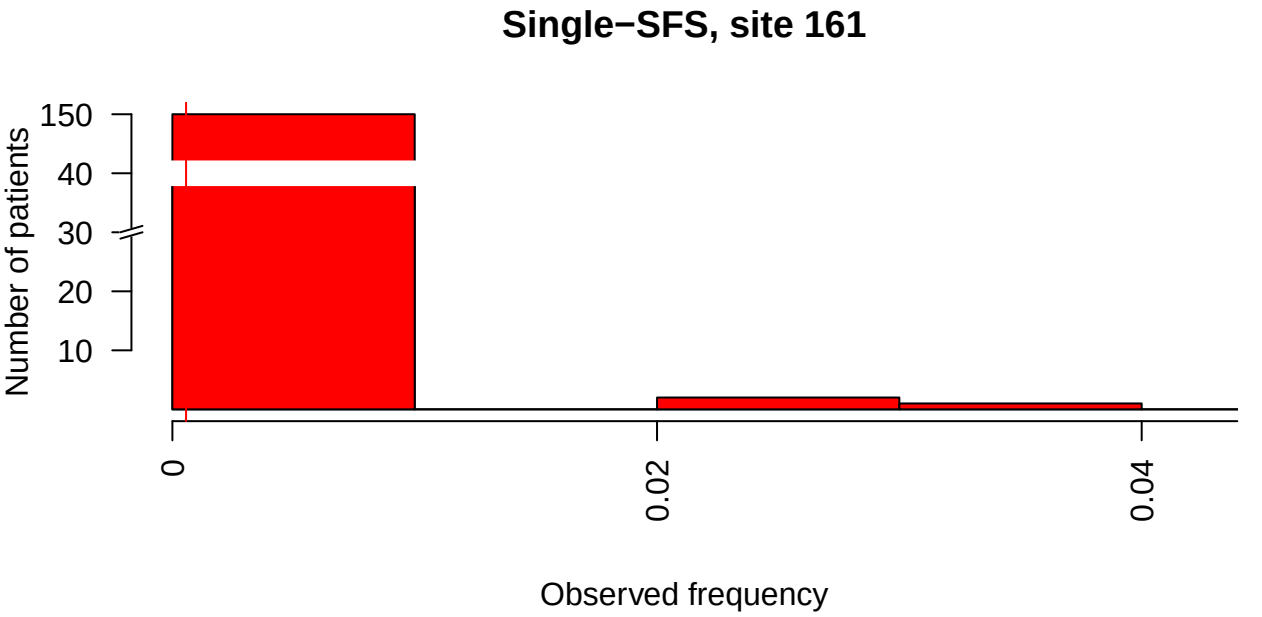

Simulated data, cost 0.018
Number of patients
157
40
30
20
10
pvalue= 0.321
0
0.02
0.04
0.06
0.08
Observed frequency

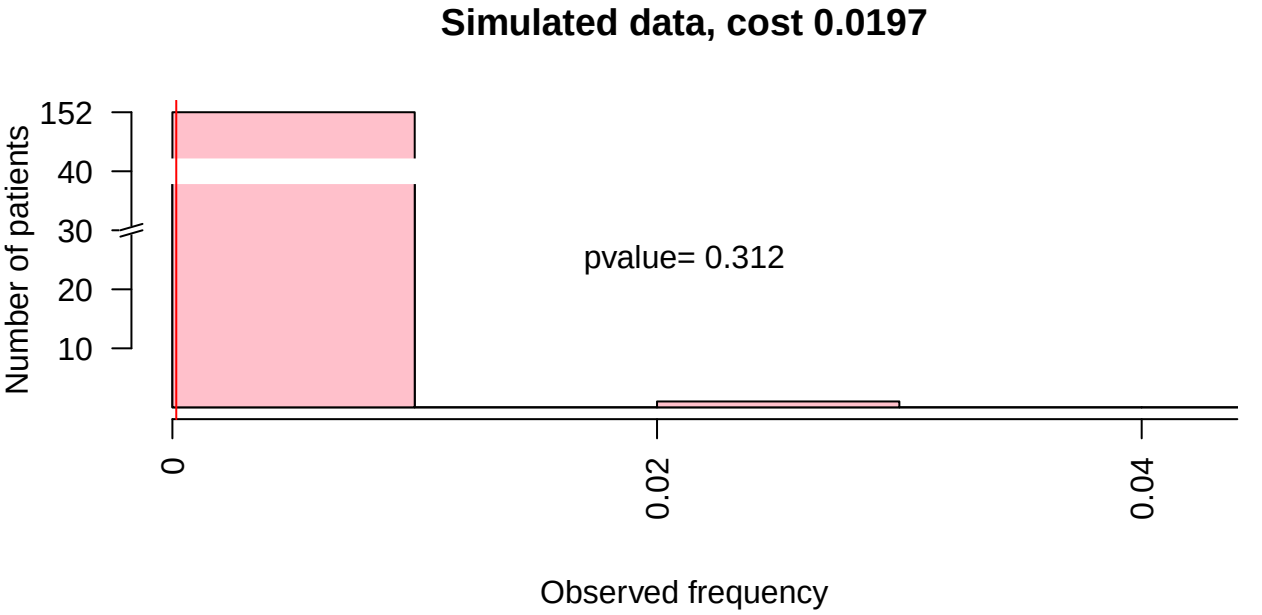

Single−SFS, site 159
Number of patients
152
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
0.24
0.26
0.28
0.3
0.32
0.34
0.36
0.38
0.4
0.42
0.44
0.46
0.48
0.5
0.52
0.54
0.56
0.58
Observed frequency

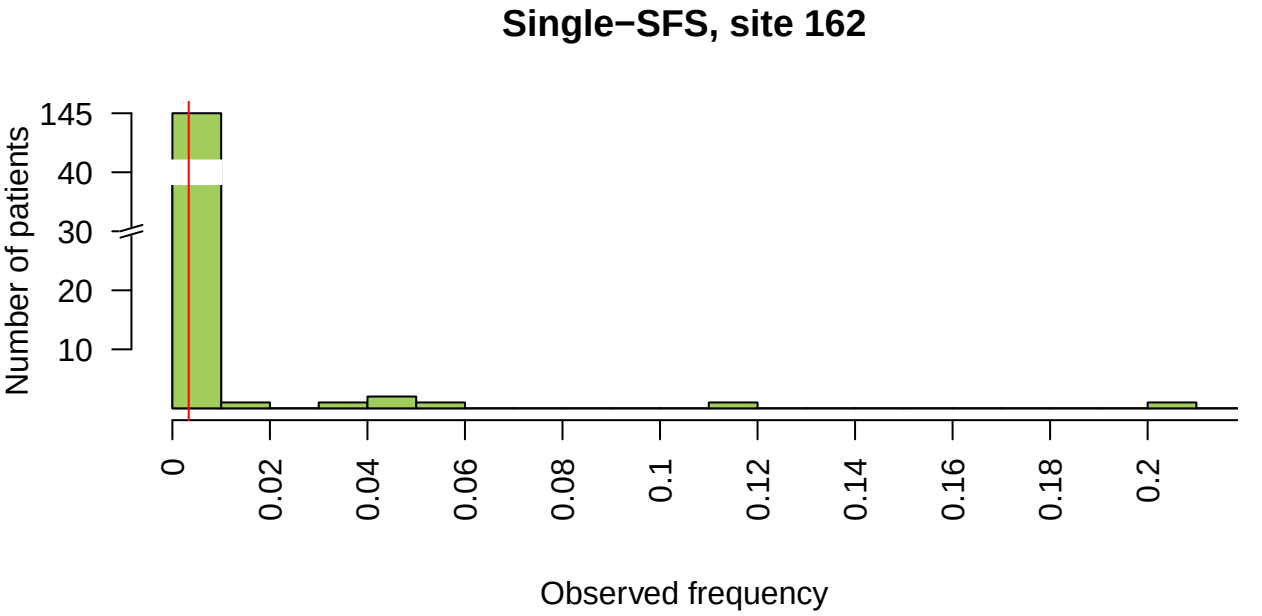

Simulated data, cost 0.0024
Number of patients
153
40
30
20
10
pvalue= 0.741
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
0.24
0.26
0.28
0.3
0.32
0.34
0.36
0.38
0.4
0.42
0.44
0.46
0.48
0.5
0.52
0.54
0.56
0.58
Observed frequency

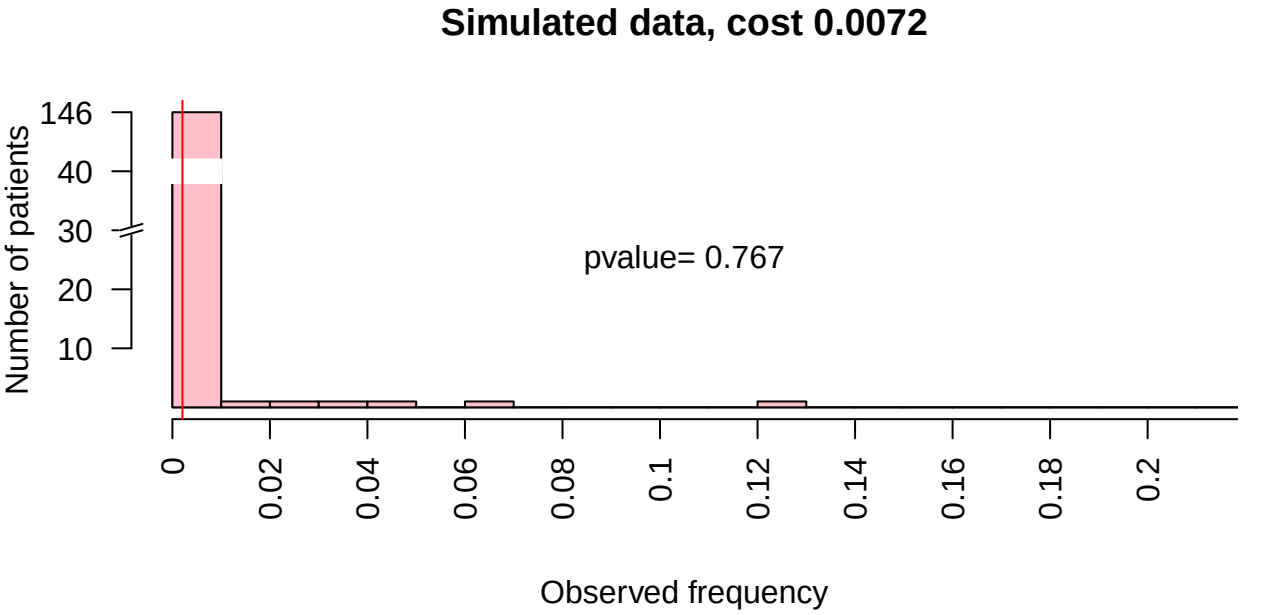

Single−SFS, site 160
Number of patients
144
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
0.24
0.26
0.28
0.3
0.32
0.34
0.36
0.38
0.4
0.42
0.44
0.46
0.48
0.5
0.52
0.54
0.56
0.58
0.6
0.62
0.64
0.66
0.68
0.7
0.72
0.74
0.76
0.78
0.8
0.82
Observed frequency

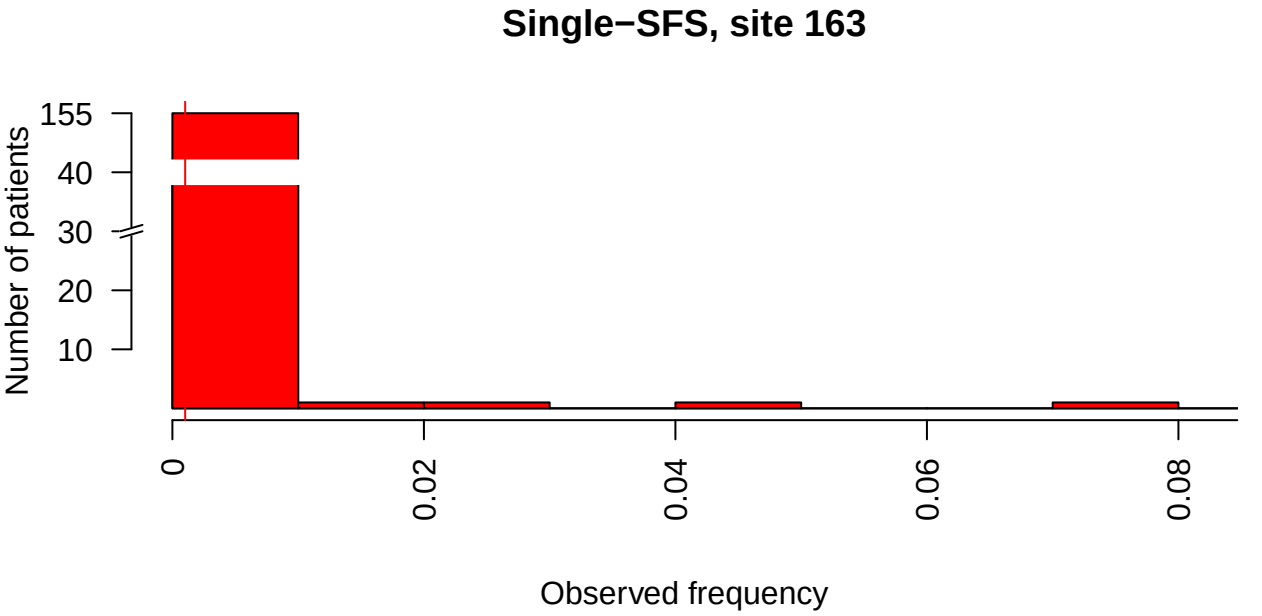

Simulated data, cost 6e−04
Number of patients
134
40
30
20
10
pvalue= 0.073
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
0.24
0.26
0.28
0.3
0.32
0.34
0.36
0.38
0.4
0.42
0.44
0.46
0.48
0.5
0.52
0.54
0.56
0.58
0.6
0.62
0.64
0.66
0.68
0.7
0.72
0.74
0.76
0.78
0.8
0.82
Observed frequency

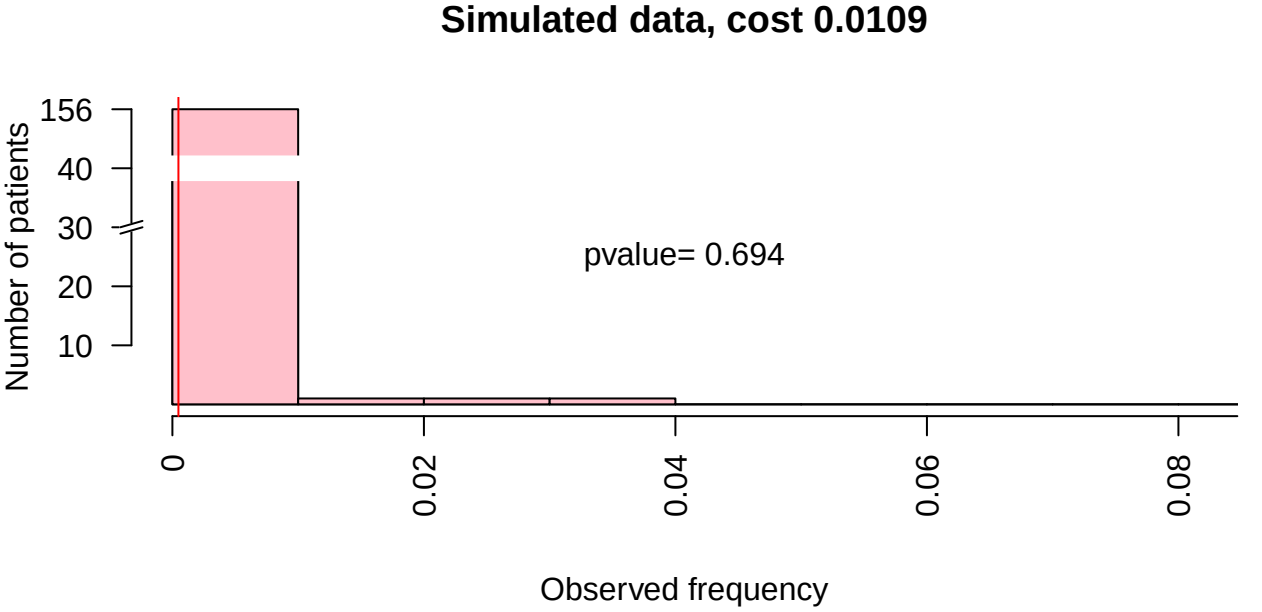

Single−SFS, site 161
Number of patients
150
40
30
20
10
0
0.02
0.04
Observed frequency

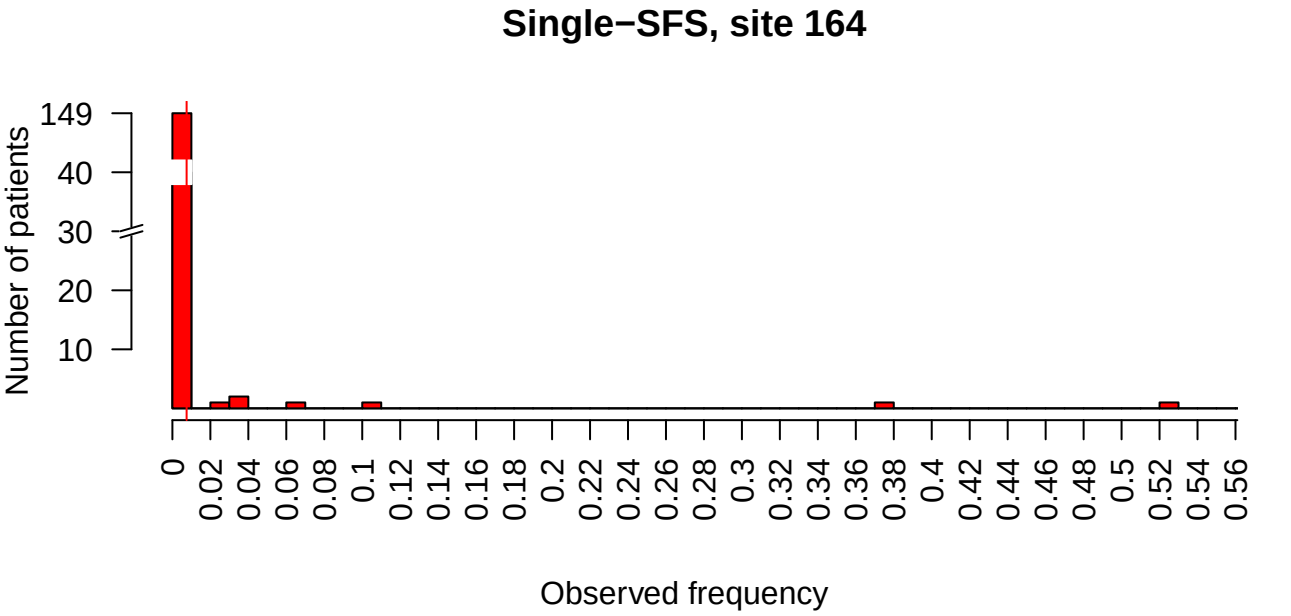

Simulated data, cost 0.0197
Number of patients
152
40
30
20
10
pvalue= 0.312
0
0.02
0.04
Observed frequency

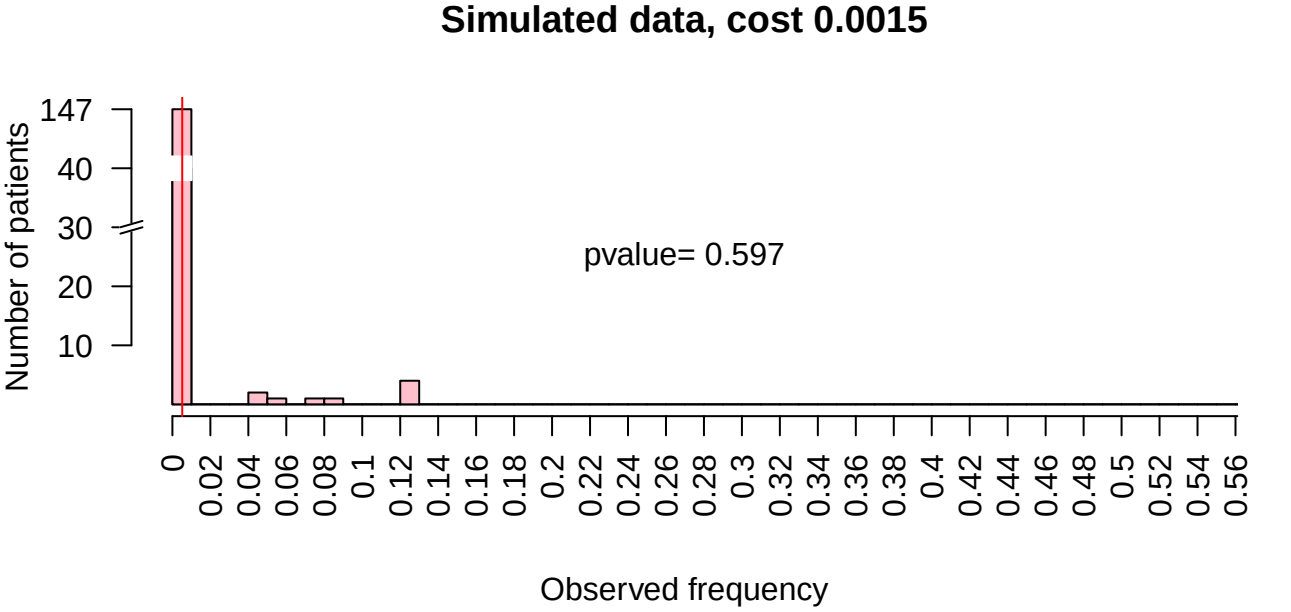

Single−SFS, site 162
Number of patients
145
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
Observed frequency

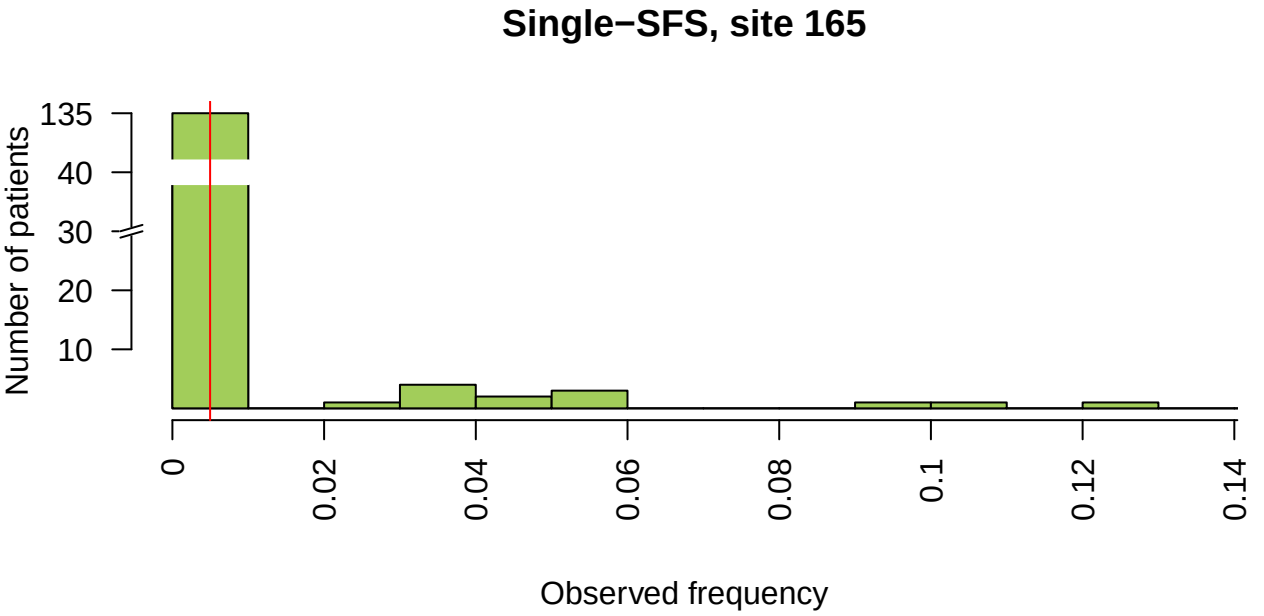

Simulated data, cost 0.0072
Number of patients
146
40
30
20
10
pvalue= 0.767
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
Observed frequency

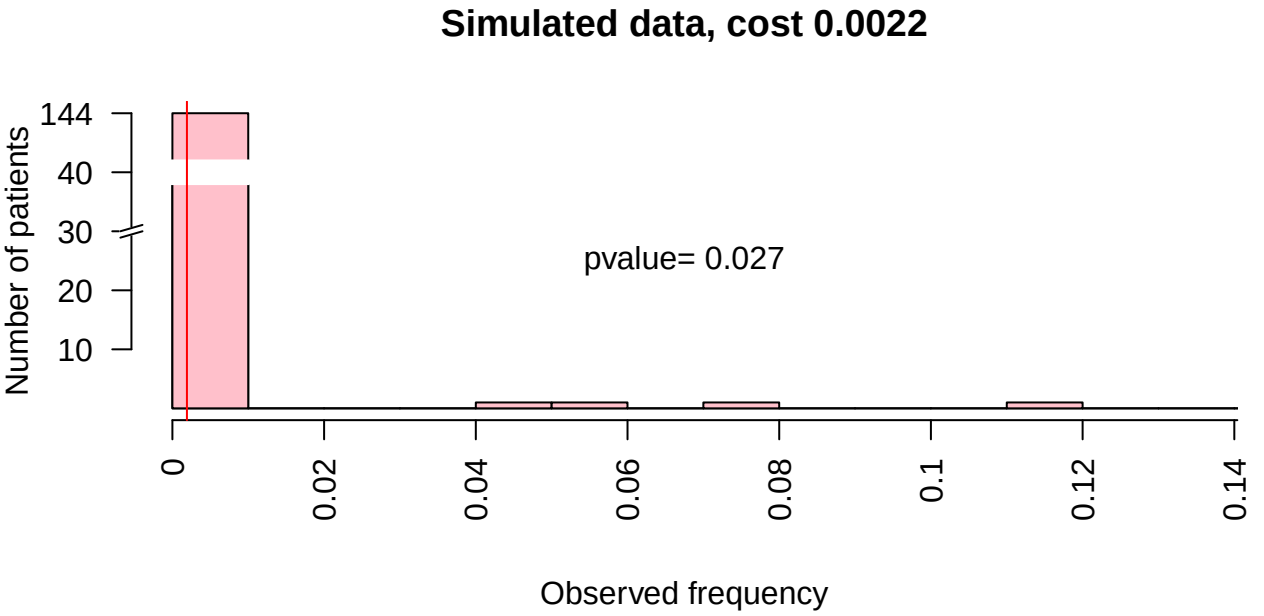

Single−SFS, site 163
Number of patients
155
40
30
20
10
0
0.02
0.04
0.06
0.08
Observed frequency

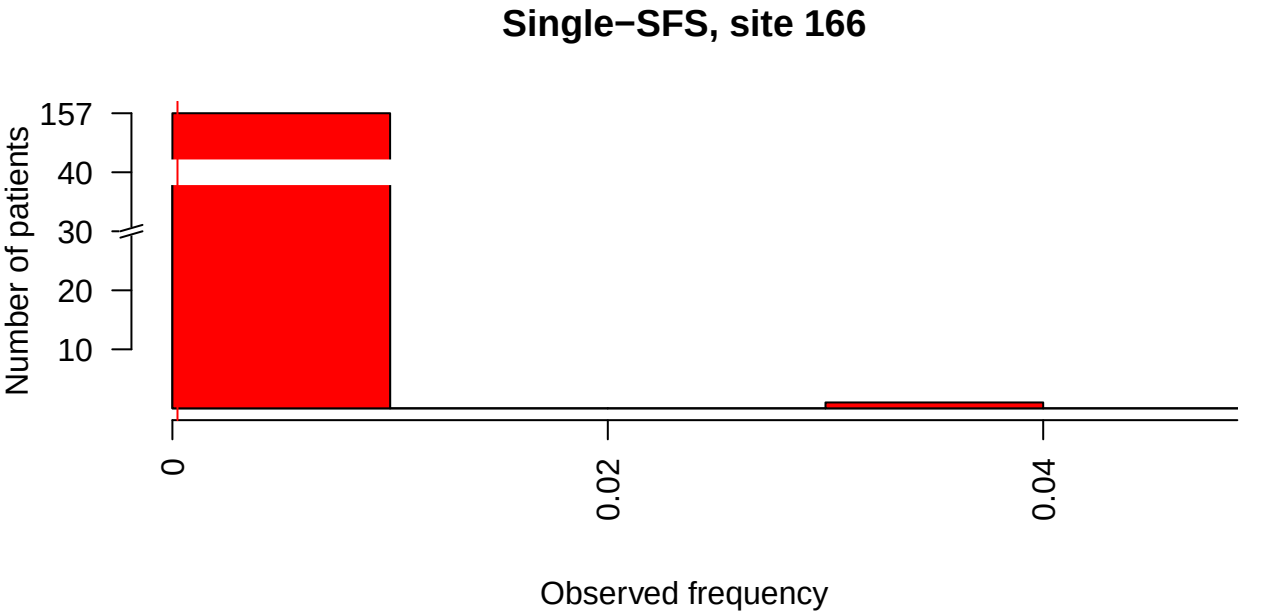

Simulated data, cost 0.0109
Number of patients
156
40
30
20
10
pvalue= 0.694
0
0.02
0.04
0.06
0.08
Observed frequency

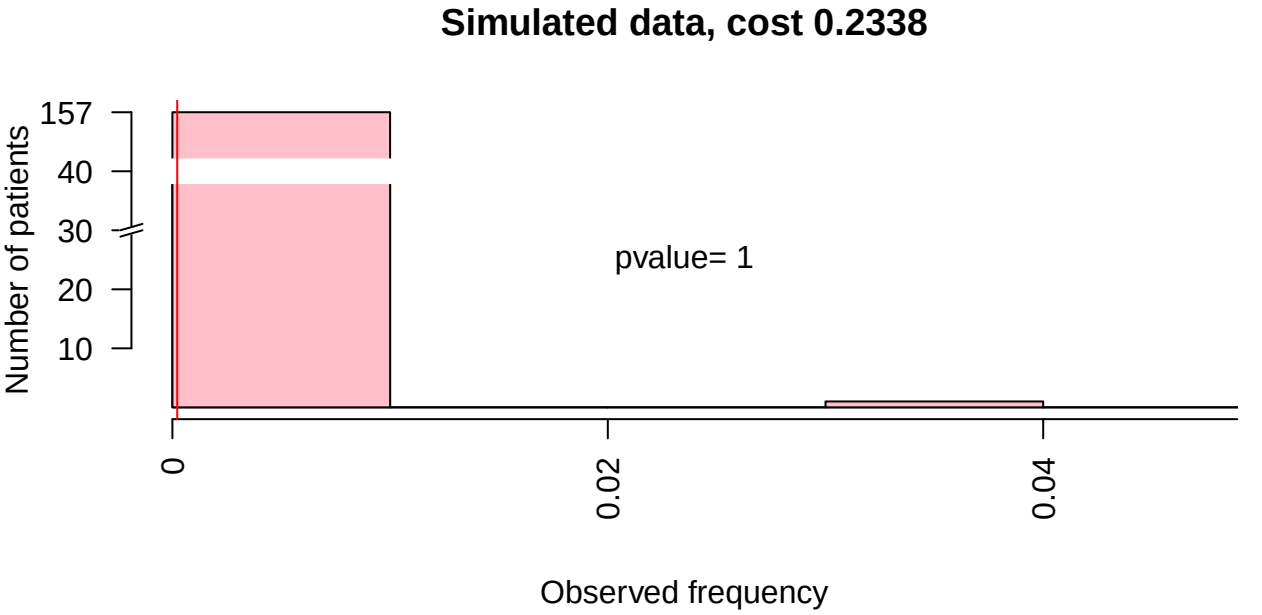

Single−SFS, site 164
Number of patients
149
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
0.24
0.26
0.28
0.3
0.32
0.34
0.36
0.38
0.4
0.42
0.44
0.46
0.48
0.5
0.52
0.54
0.56
Observed frequency

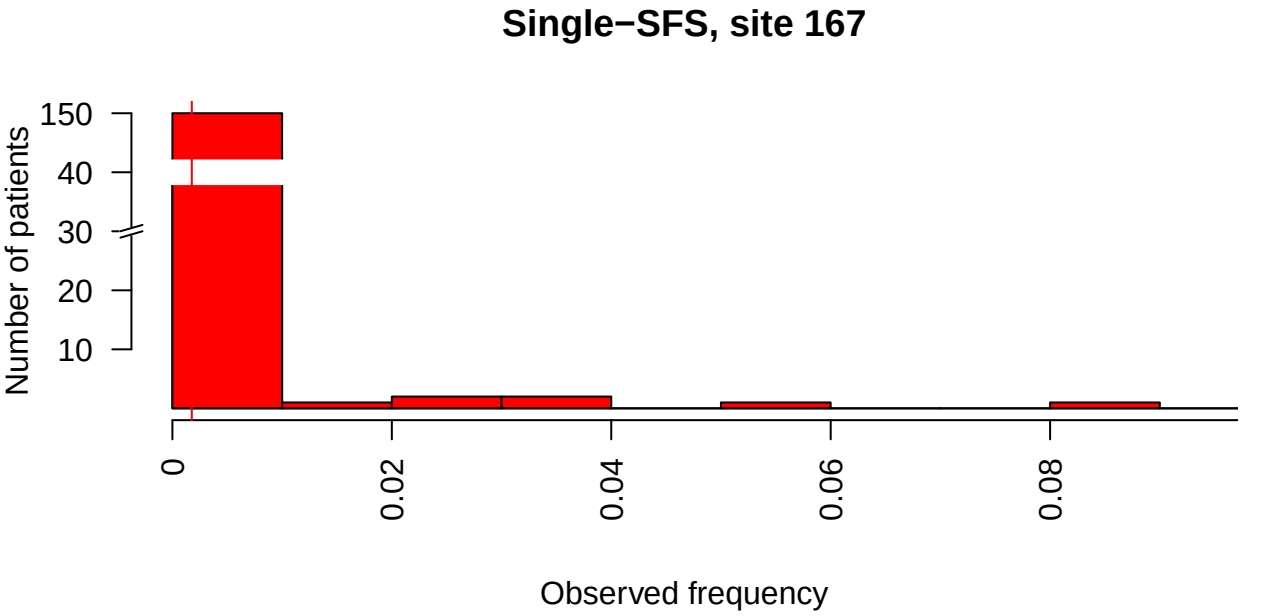

Simulated data, cost 0.0015
Number of patients
147
40
30
20
10
pvalue= 0.597
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
0.24
0.26
0.28
0.3
0.32
0.34
0.36
0.38
0.4
0.42
0.44
0.46
0.48
0.5
0.52
0.54
0.56
Observed frequency

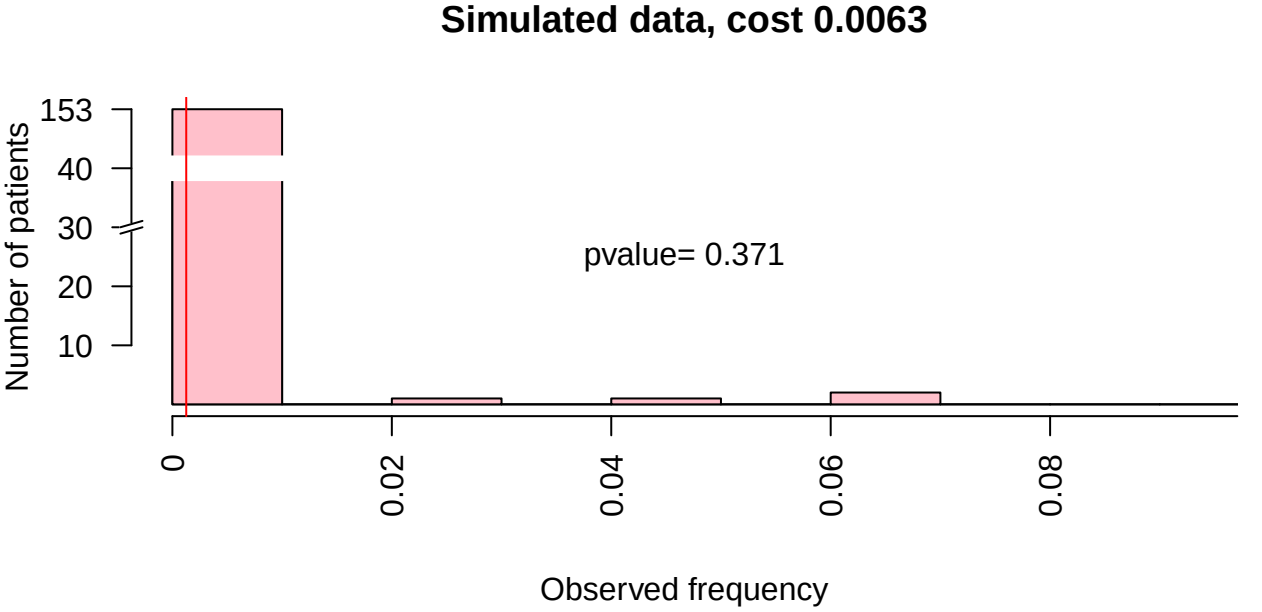

Single−SFS, site 165
Number of patients
135
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
Observed frequency

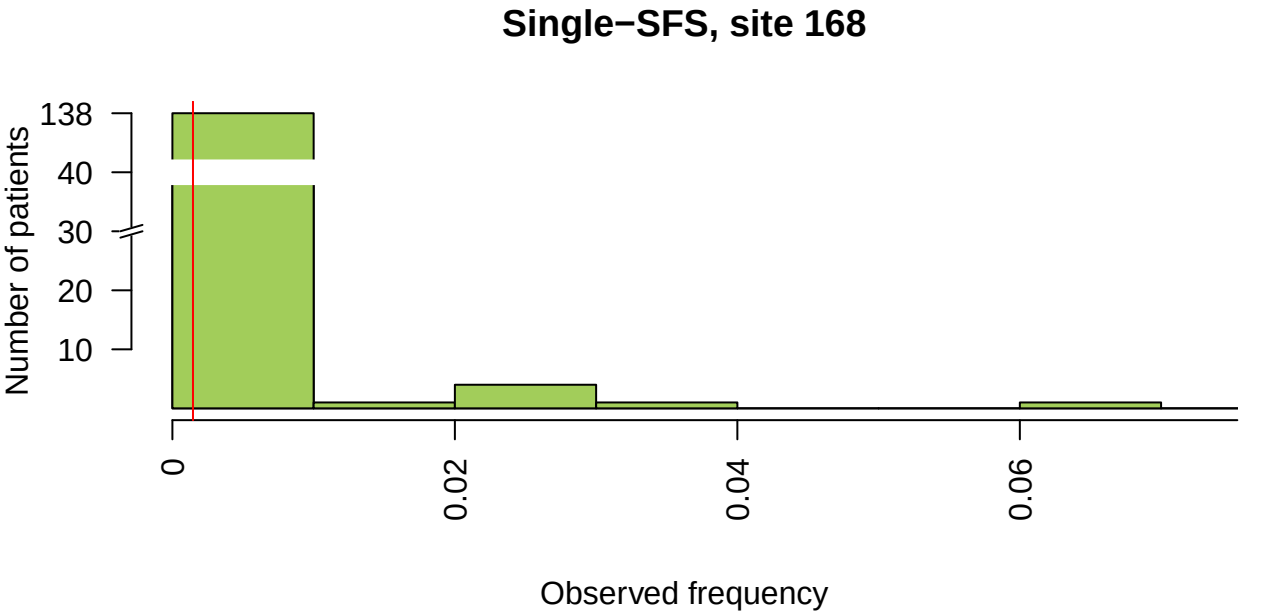

Simulated data, cost 0.0022
Number of patients
144
40
30
20
10
pvalue= 0.027
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
Observed frequency

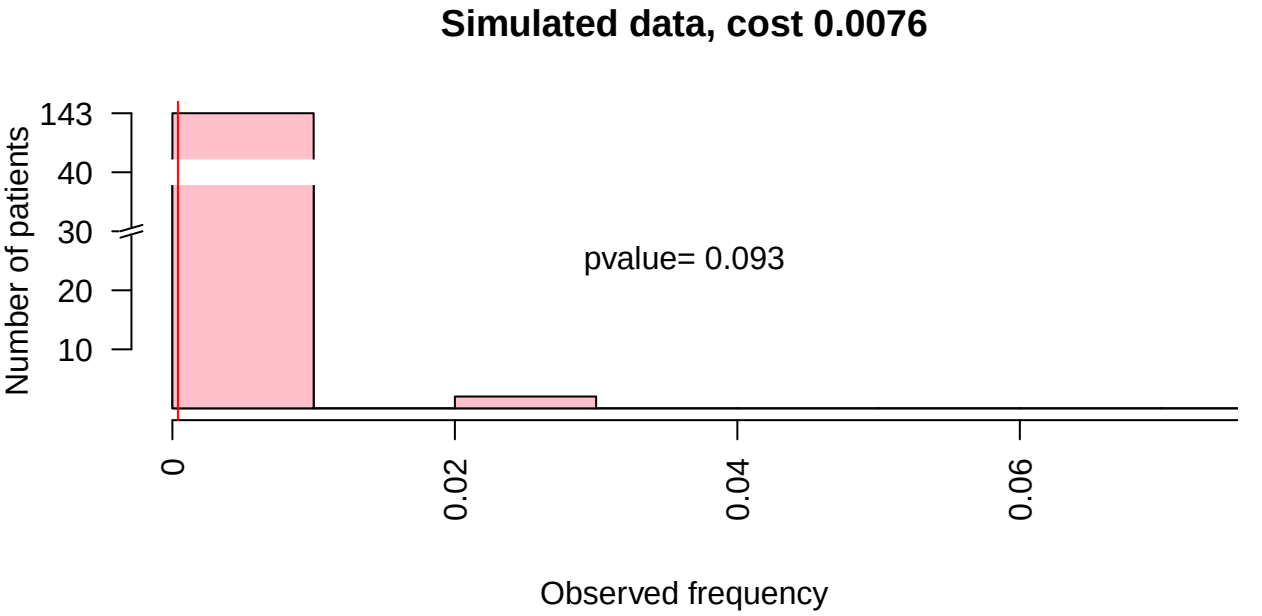

Single−SFS, site 166
Number of patients
157
40
30
20
10
0
0.02
0.04
Observed frequency

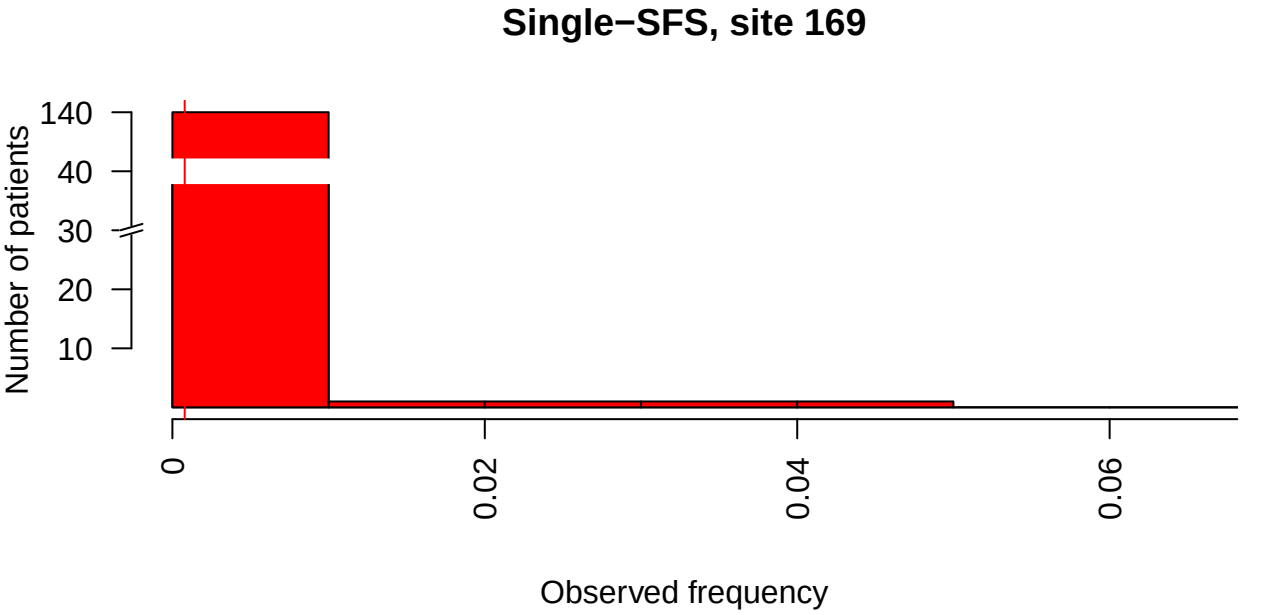

Simulated data, cost 0.2338
Number of patients
157
40
30
20
10
pvalue= 1
0
0.02
0.04
Observed frequency

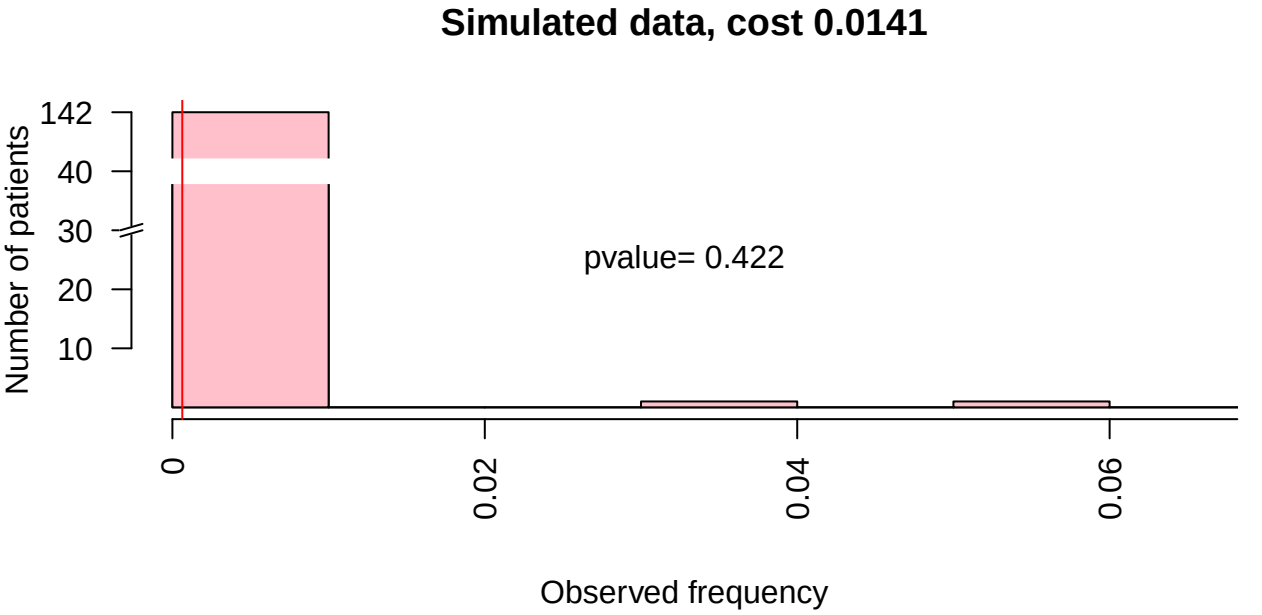

Single−SFS, site 167
Number of patients
150
40
30
20
10
0
0.02
0.04
0.06
0.08
Observed frequency

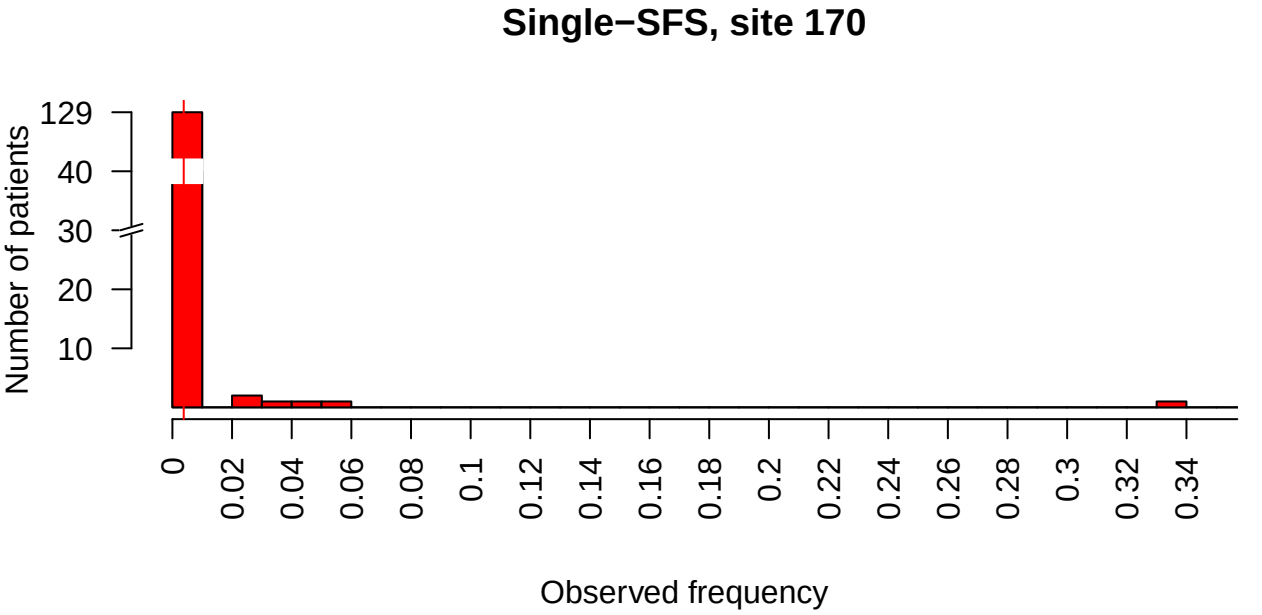

Simulated data, cost 0.0063
Number of patients
153
40
30
20
10
pvalue= 0.371
0
0.02
0.04
0.06
0.08
Observed frequency

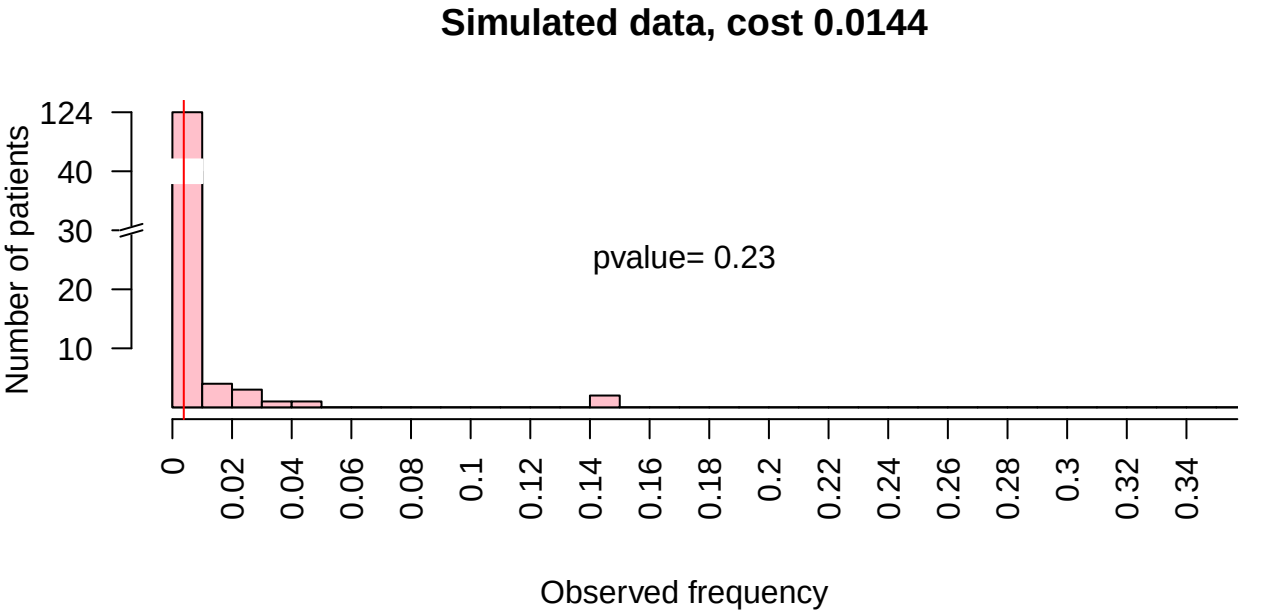

Single−SFS, site 168
Number of patients
138
40
30
20
10
0
0.02
0.04
0.06
Observed frequency

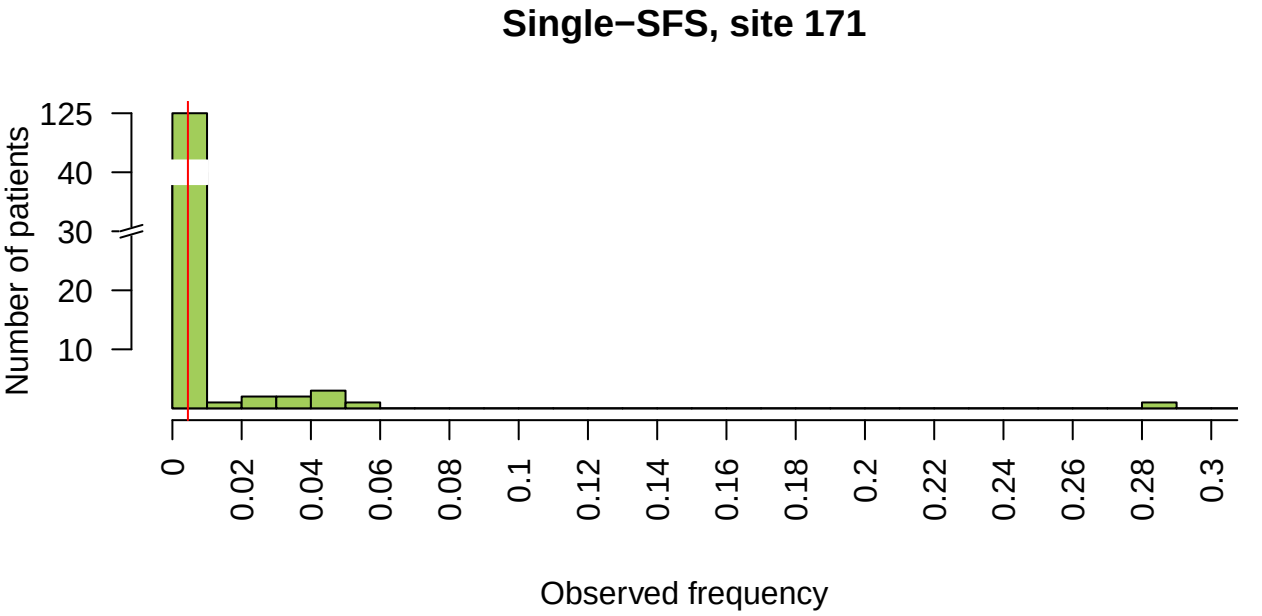

Simulated data, cost 0.0076
Number of patients
143
40
30
20
10
pvalue= 0.093
0
0.02
0.04
0.06
Observed frequency

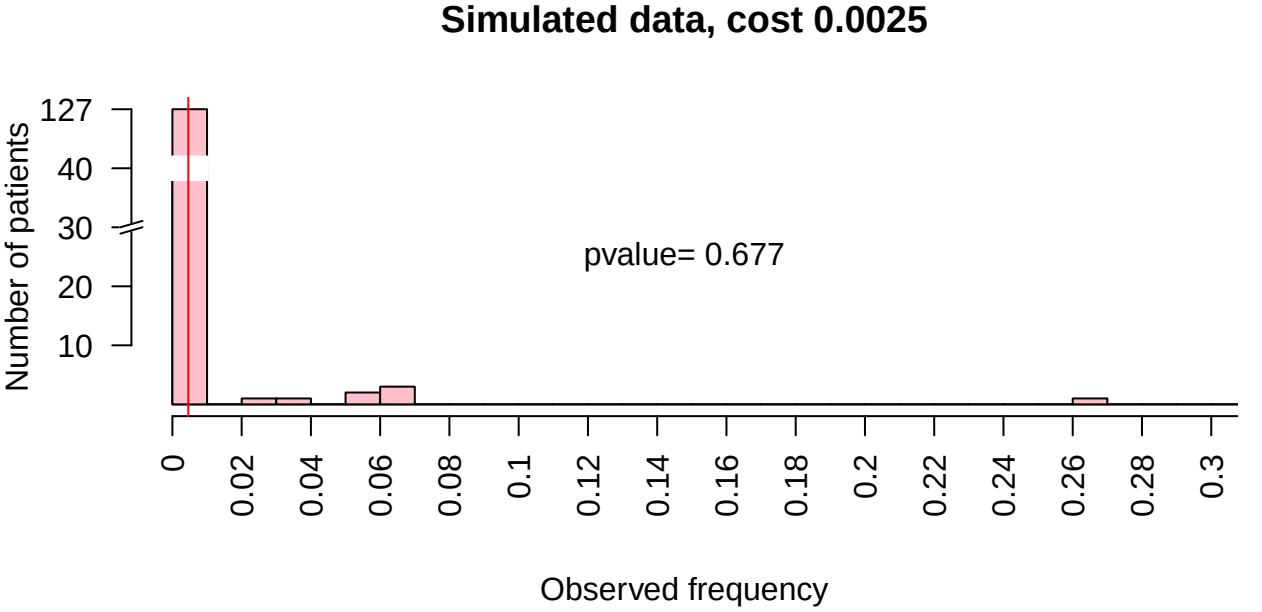

Single−SFS, site 169
Number of patients
140
40
30
20
10
0
0.02
0.04
0.06
Observed frequency

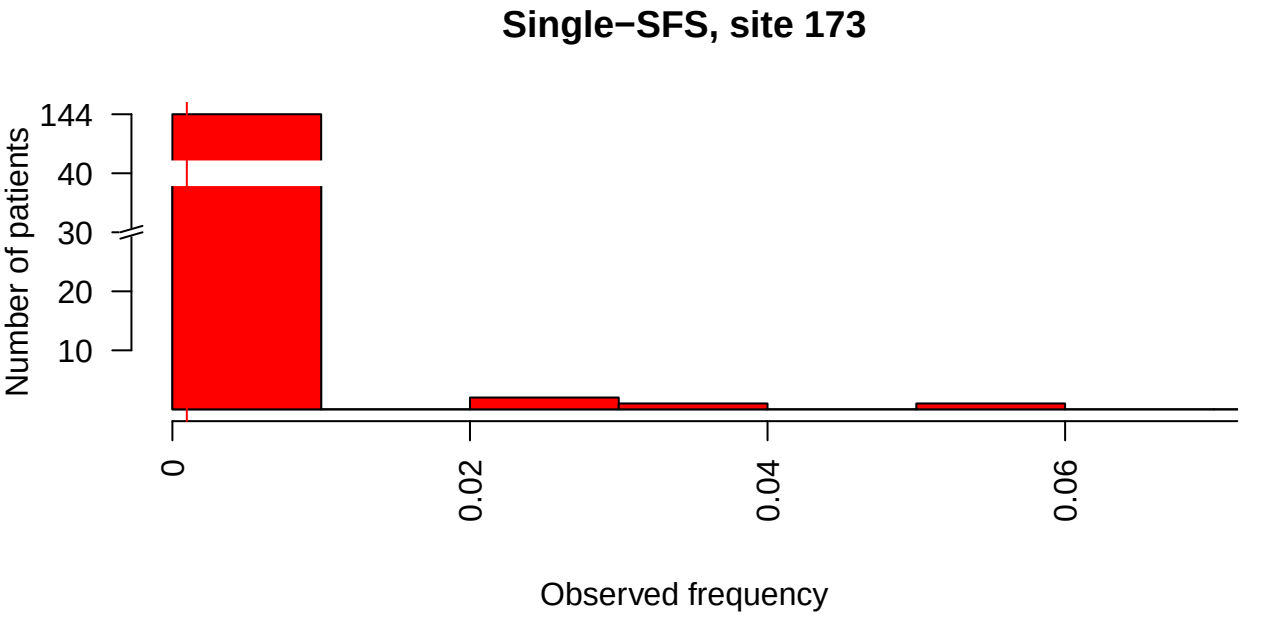

Simulated data, cost 0.0141
Number of patients
142
40
30
20
10
pvalue= 0.422
0
0.02
0.04
0.06
Observed frequency

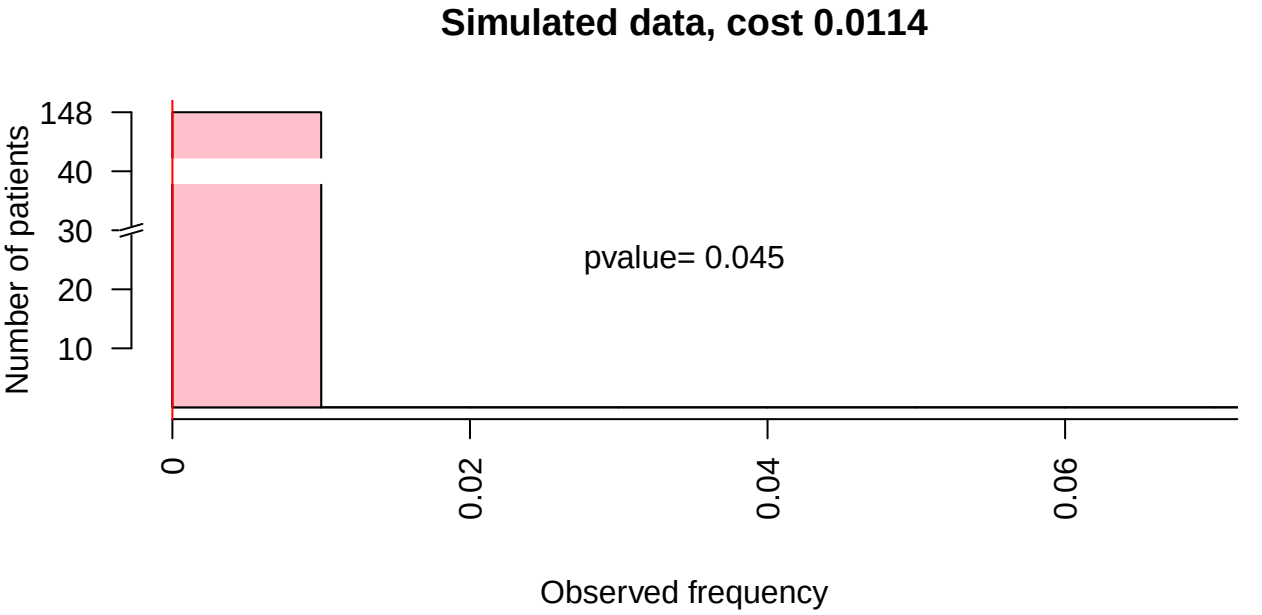

Single−SFS, site 170
Number of patients
129
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
0.24
0.26
0.28
0.3
0.32
0.34
Observed frequency

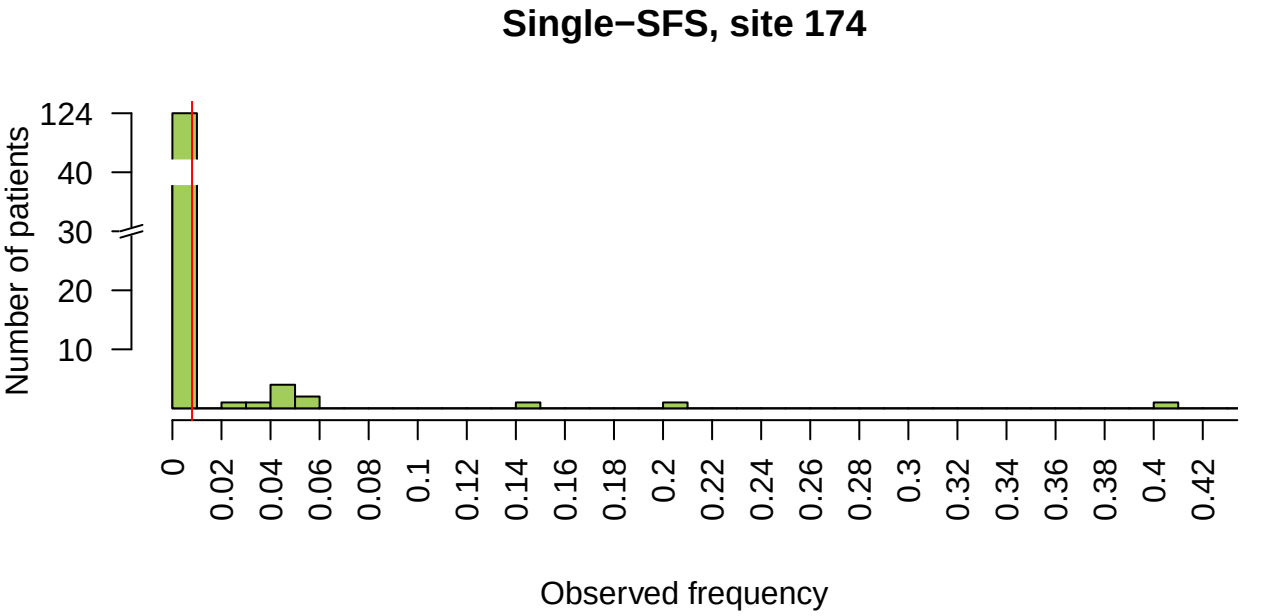

Simulated data, cost 0.0144
Number of patients
124
40
30
20
10
pvalue= 0.23
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
0.24
0.26
0.28
0.3
0.32
0.34
Observed frequency

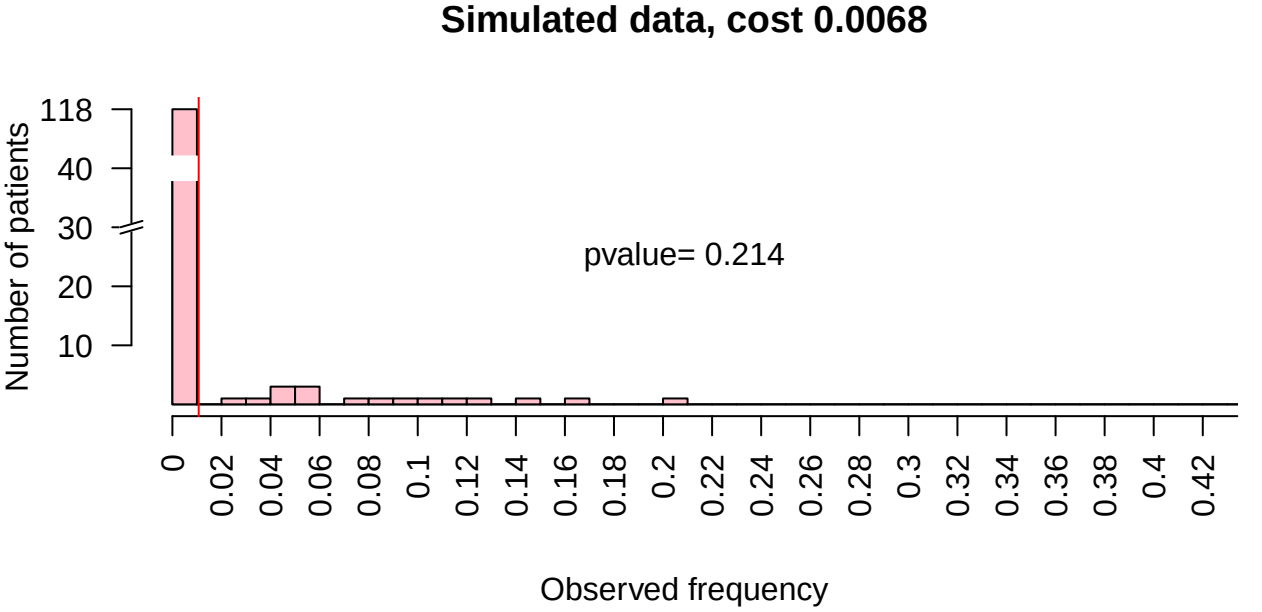

Single−SFS, site 171
Number of patients
125
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
0.24
0.26
0.28
0.3
Observed frequency

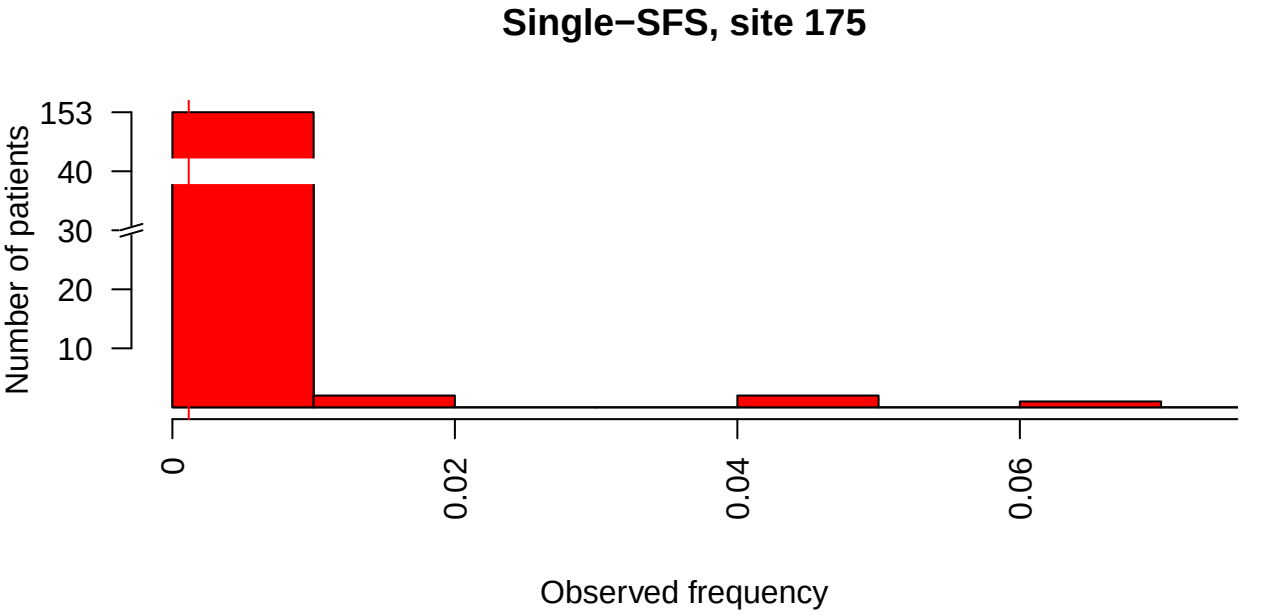

Simulated data, cost 0.0025
Number of patients
127
40
30
20
10
pvalue= 0.677
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
0.24
0.26
0.28
0.3
Observed frequency

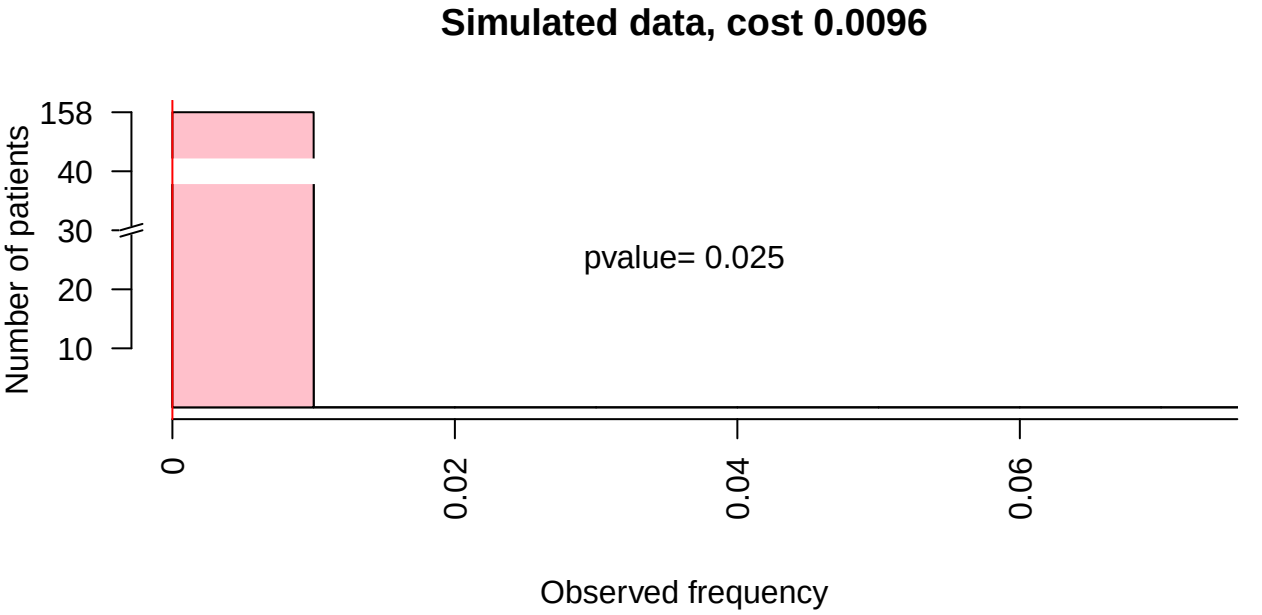

Single−SFS, site 173
Number of patients
144
40
30
20
10
0
0.02
0.04
0.06
Observed frequency

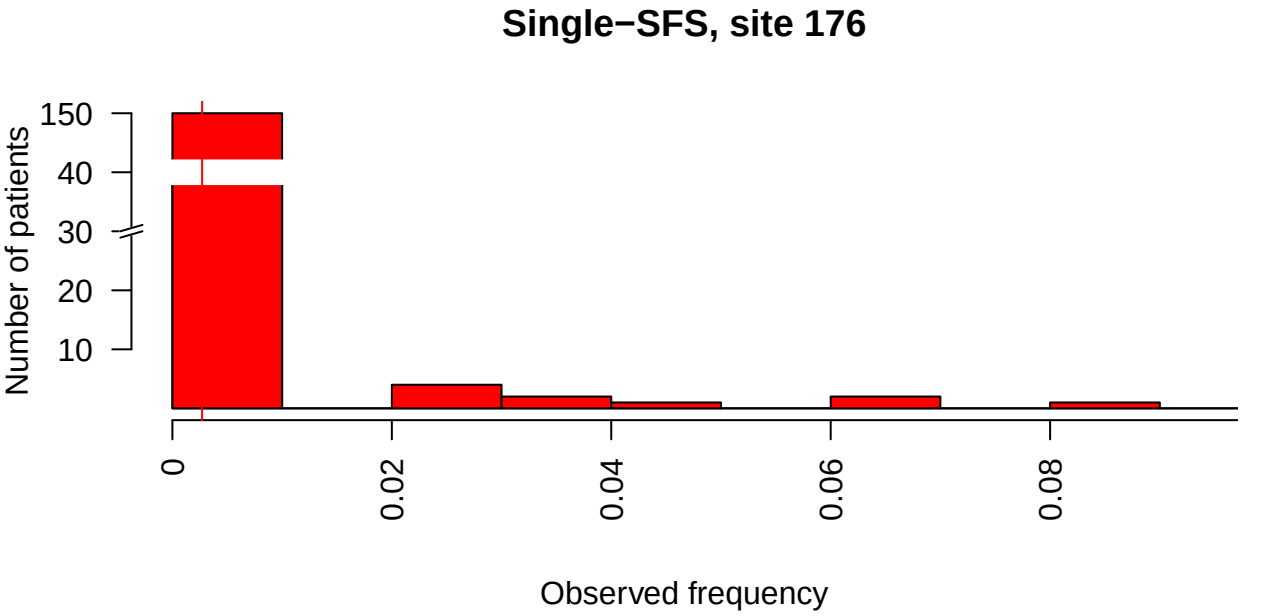

Simulated data, cost 0.0114
Number of patients
148
40
30
20
10
pvalue= 0.045
0
0.02
0.04
0.06
Observed frequency

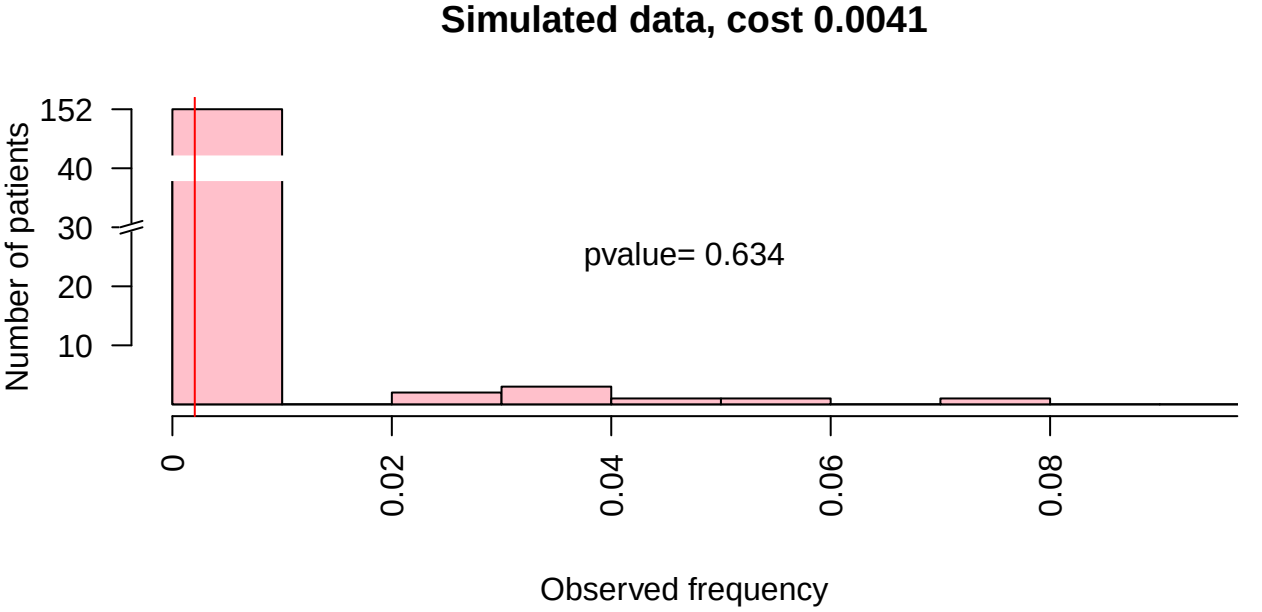

Single−SFS, site 174
Number of patients
124
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
0.24
0.26
0.28
0.3
0.32
0.34
0.36
0.38
0.4
0.42
Observed frequency

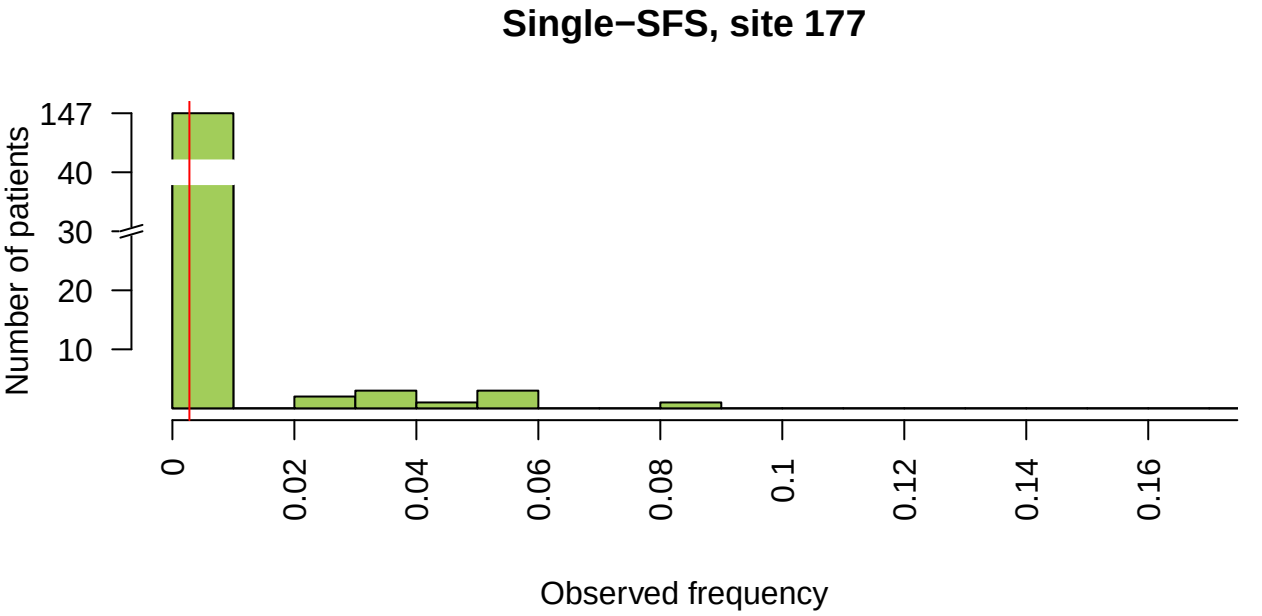

Simulated data, cost 0.0068
Number of patients
118
40
30
20
10
pvalue= 0.214
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
0.24
0.26
0.28
0.3
0.32
0.34
0.36
0.38
0.4
0.42
Observed frequency

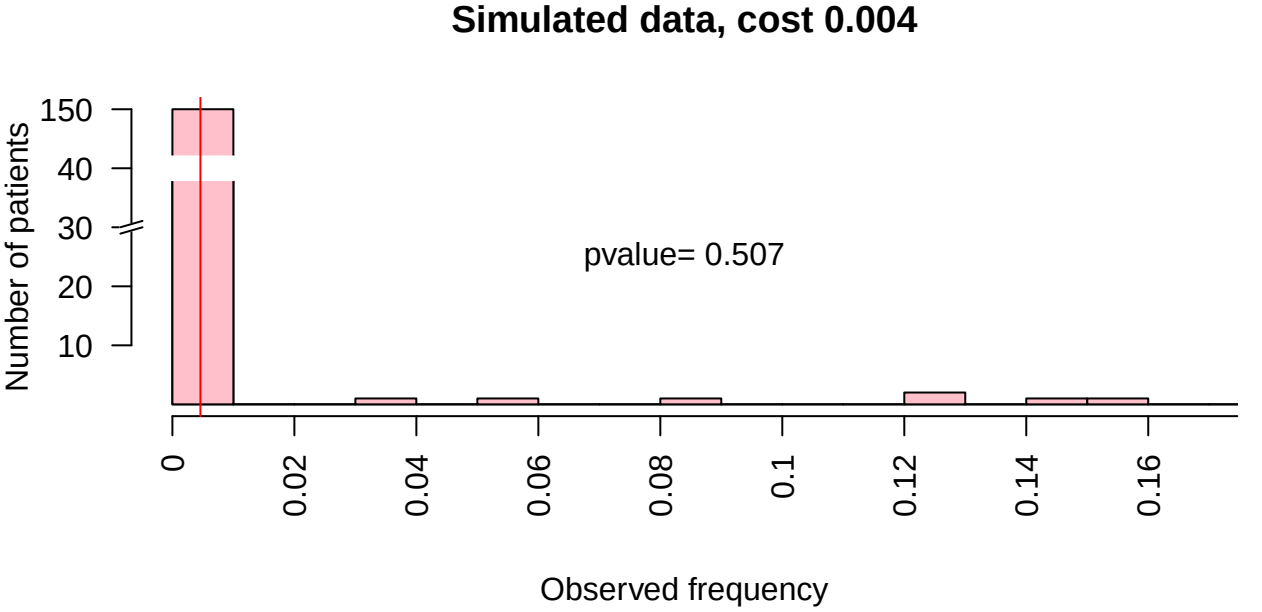

Single−SFS, site 175
Number of patients
153
40
30
20
10
0
0.02
0.04
0.06
Observed frequency

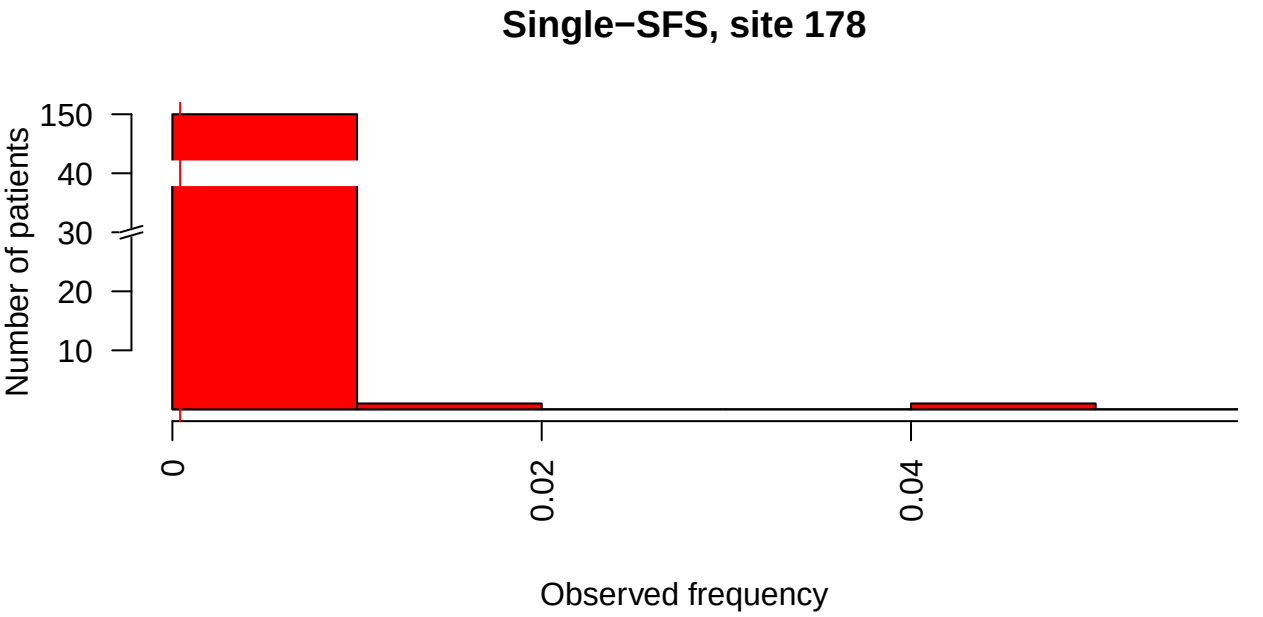

Simulated data, cost 0.0096
Number of patients
158
40
30
20
10
pvalue= 0.025
0
0.02
0.04
0.06
Observed frequency

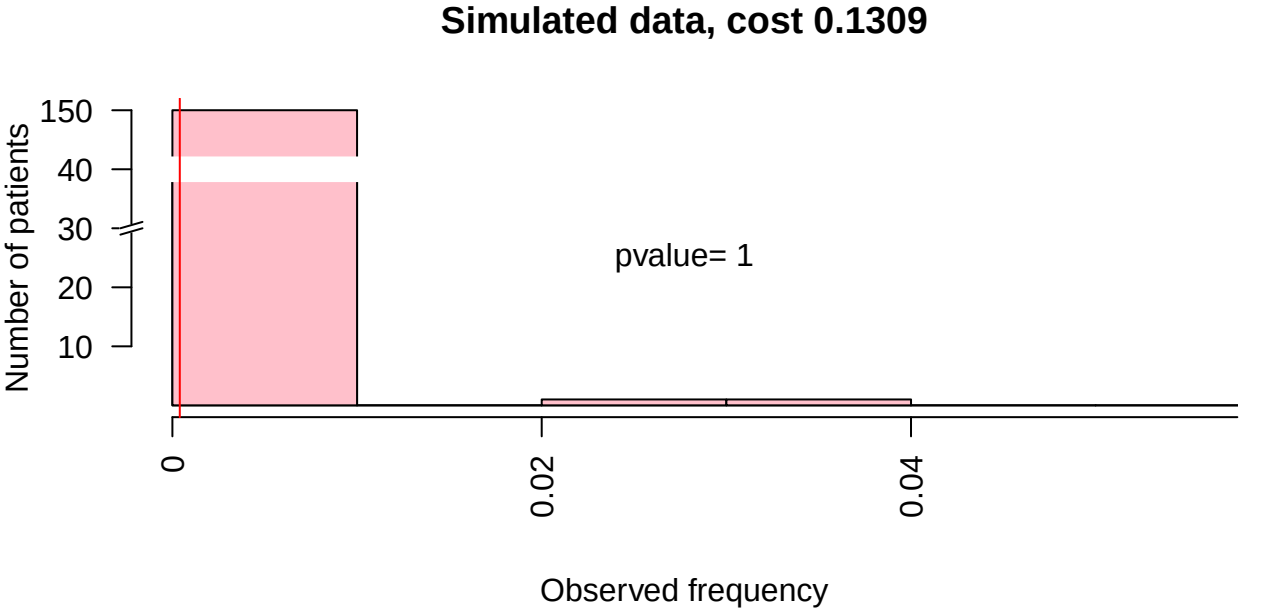

Single−SFS, site 176
Number of patients
150
40
30
20
10
0
0.02
0.04
0.06
0.08
Observed frequency

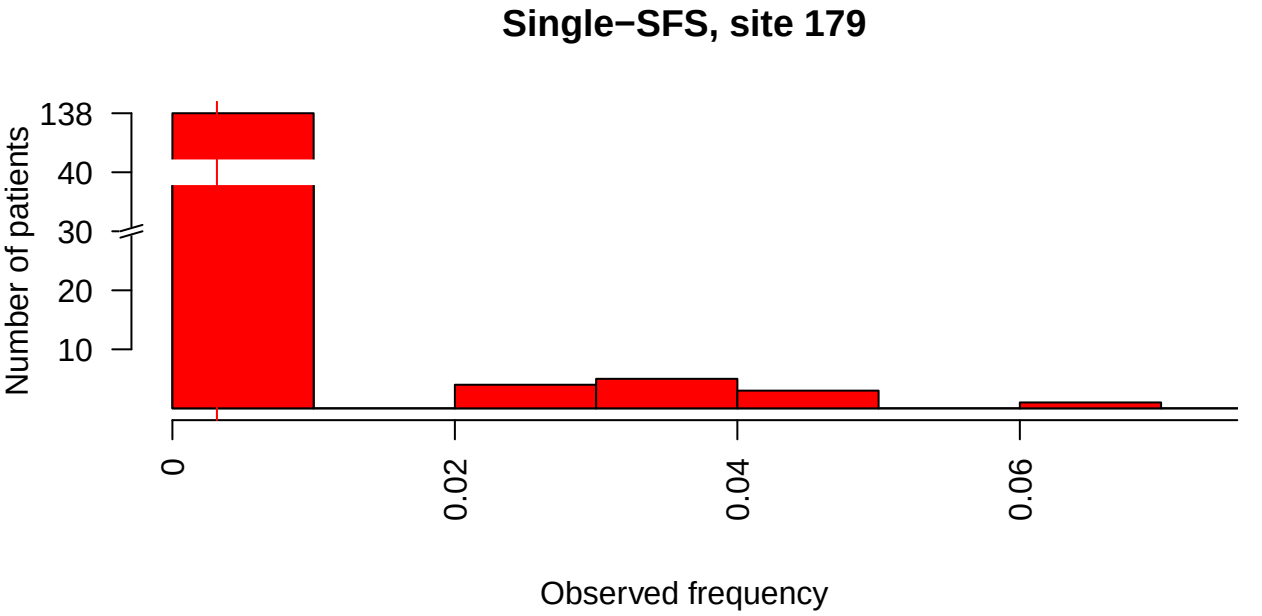

Simulated data, cost 0.0041
Number of patients
152
40
30
20
10
pvalue= 0.634
0
0.02
0.04
0.06
0.08
Observed frequency

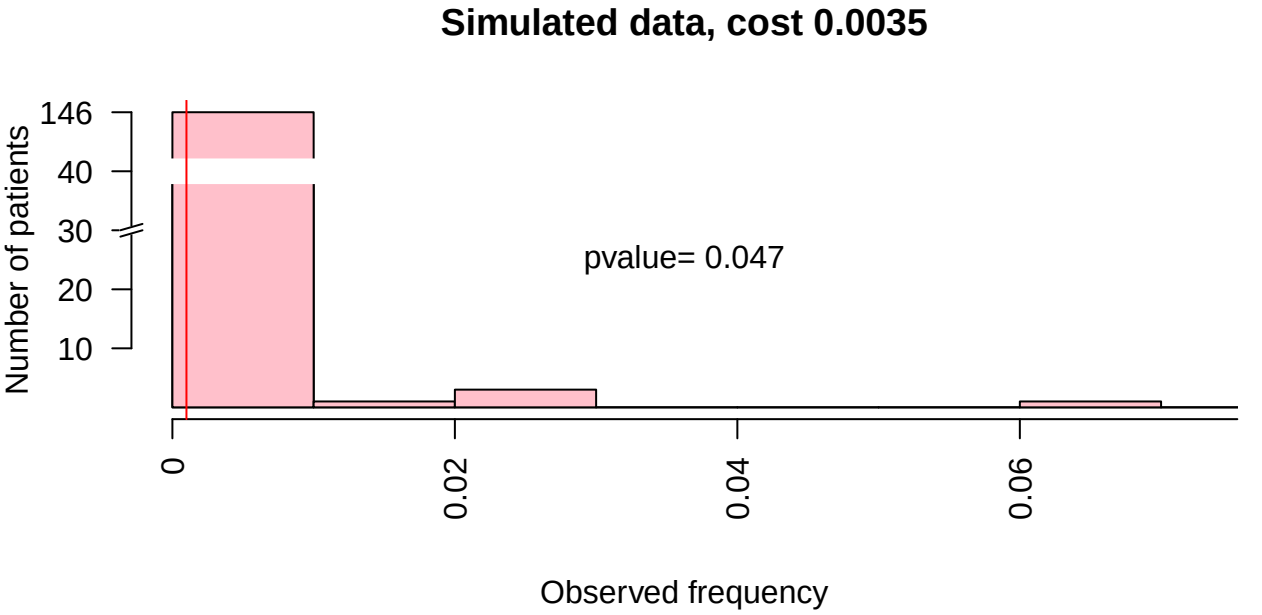

Single−SFS, site 177
Number of patients
147
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
Observed frequency

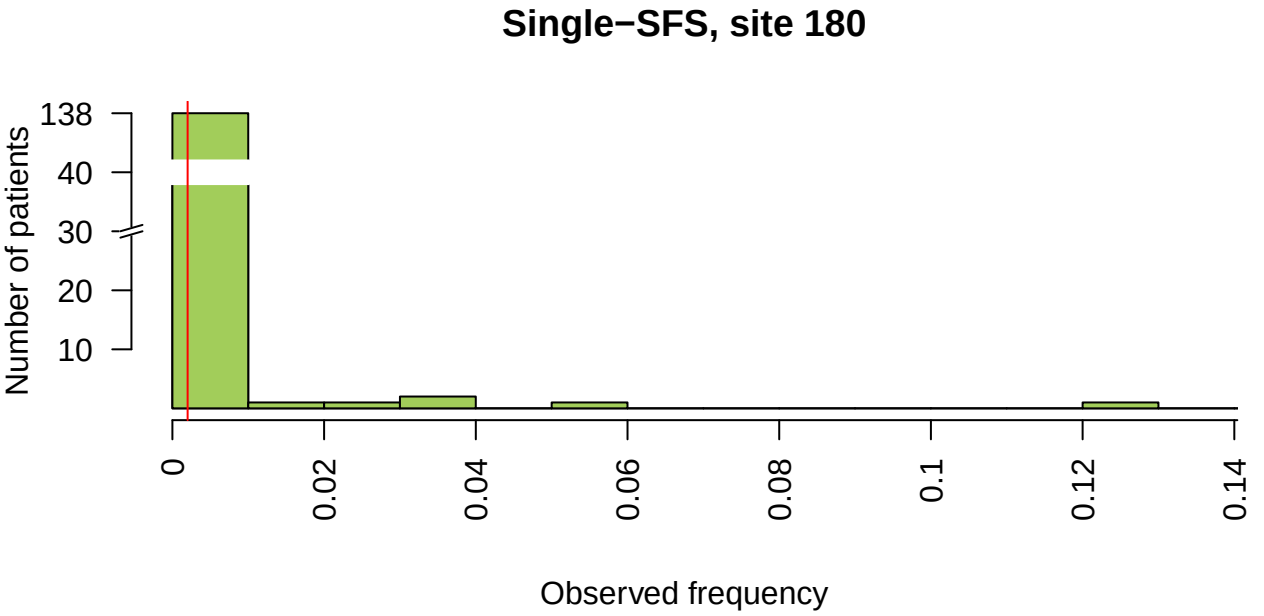

Simulated data, cost 0.004
Number of patients
150
40
30
20
10
pvalue= 0.507
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
Observed frequency

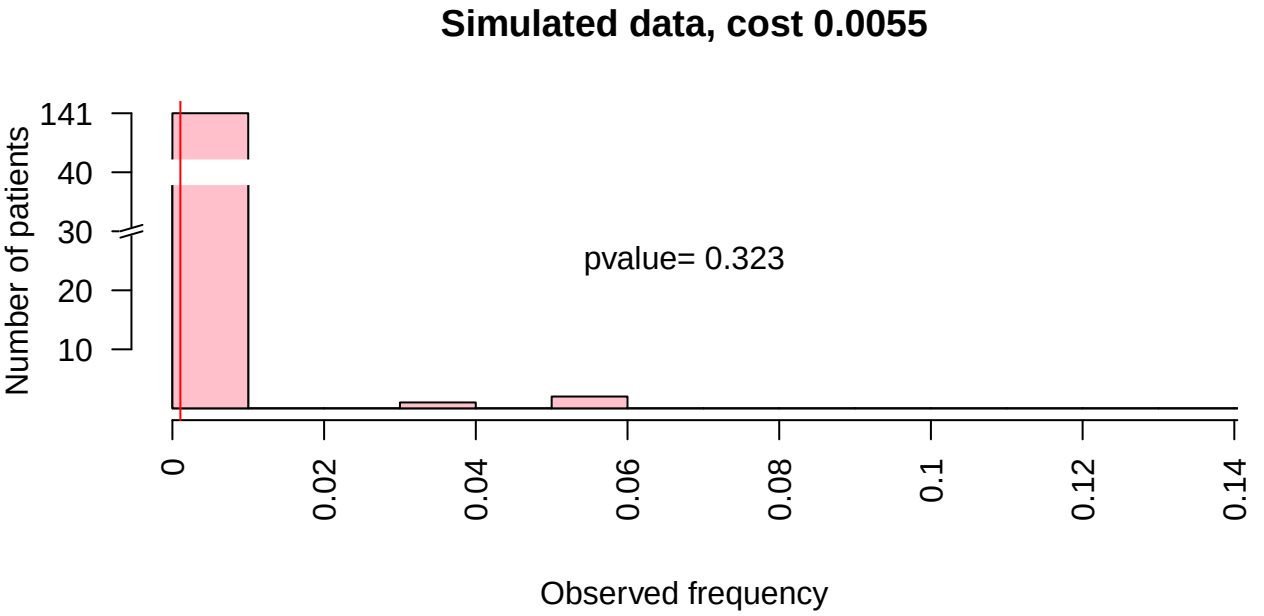

Single−SFS, site 178
Number of patients
150
40
30
20
10
0
0.02
0.04
Observed frequency

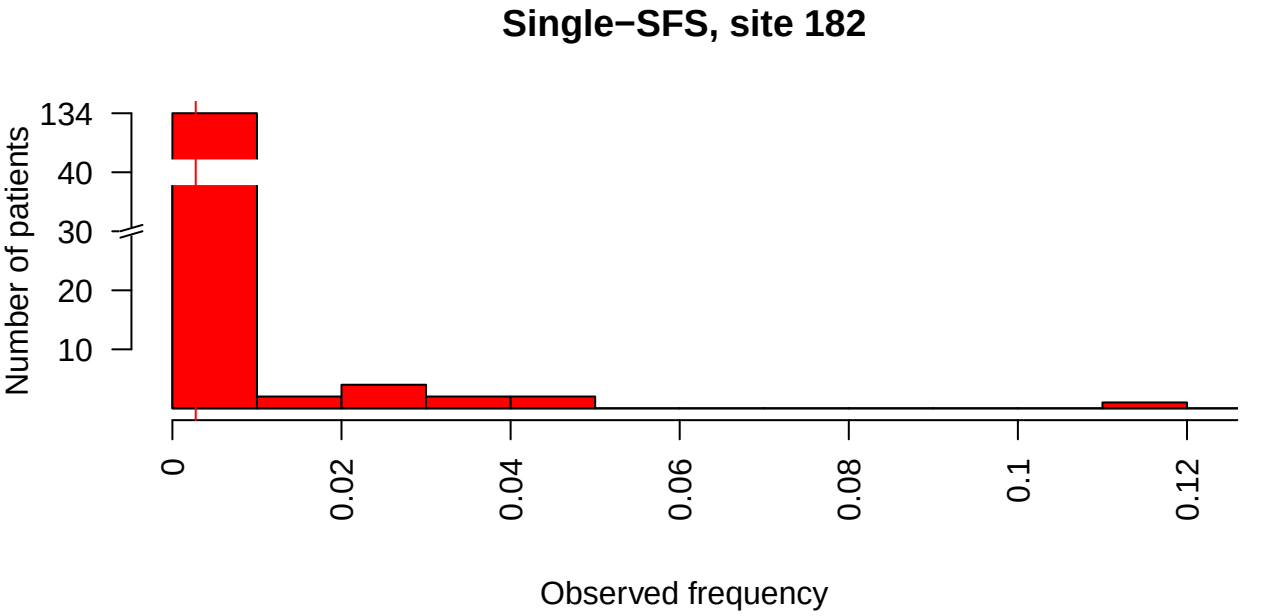

Simulated data, cost 0.1309
Number of patients
150
40
30
20
10
pvalue= 1
0
0.02
0.04
Observed frequency

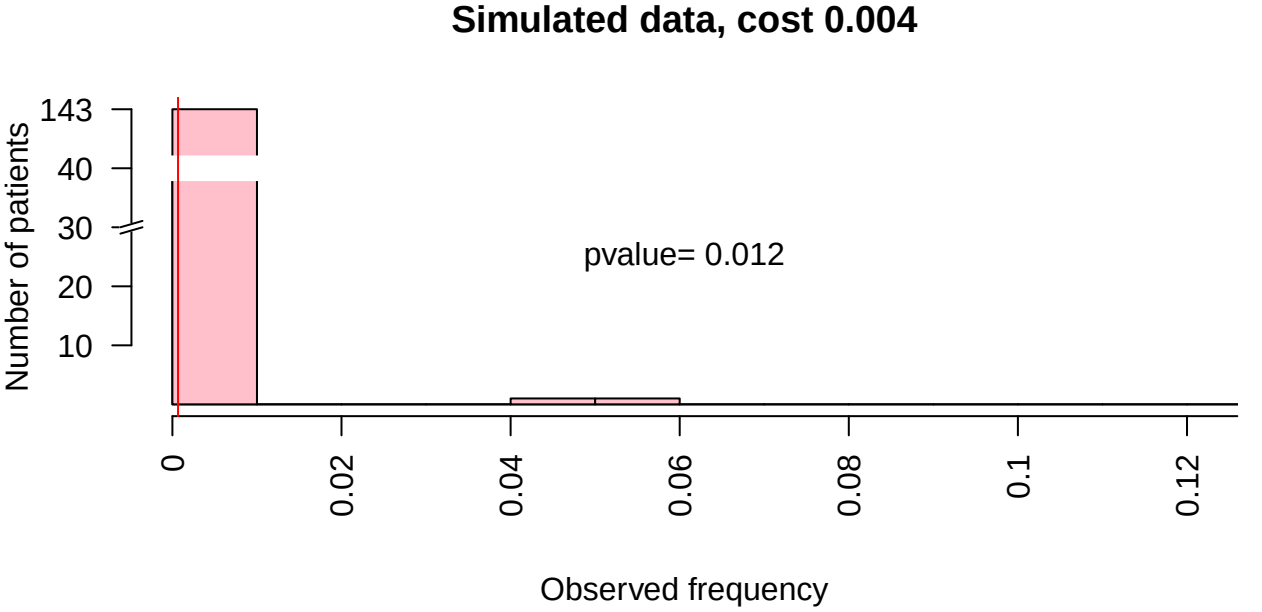

Single−SFS, site 179
Number of patients
138
40
30
20
10
0
0.02
0.04
0.06
Observed frequency

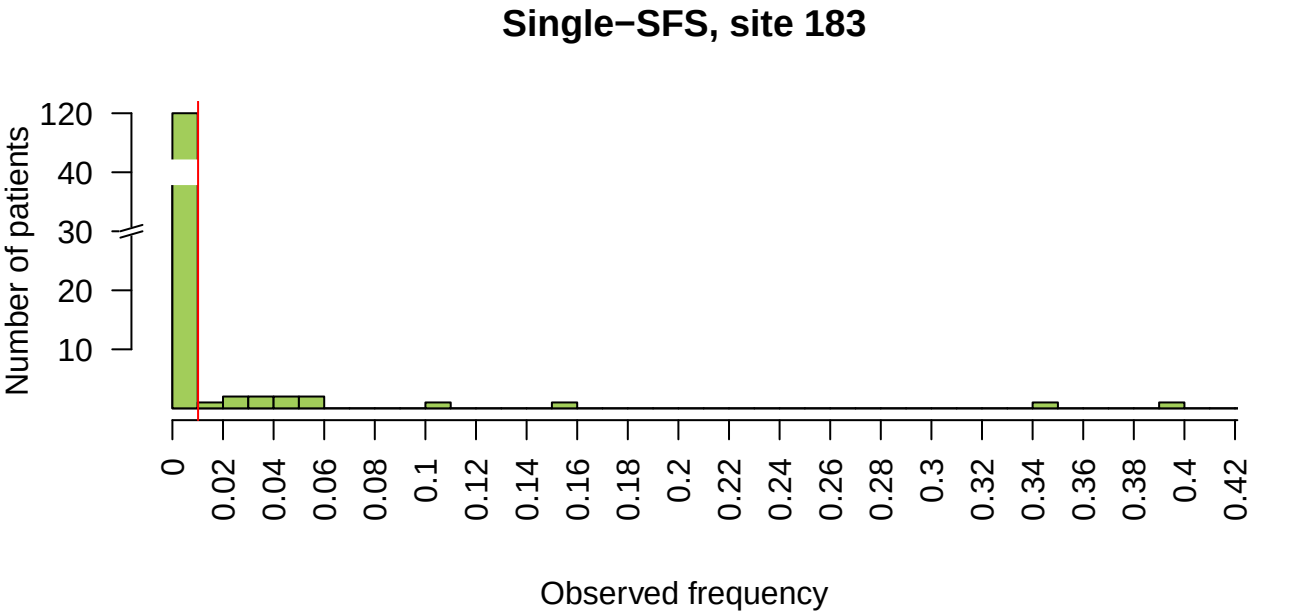

Simulated data, cost 0.0035
Number of patients
146
40
30
20
10
pvalue= 0.047
0
0.02
0.04
0.06
Observed frequency

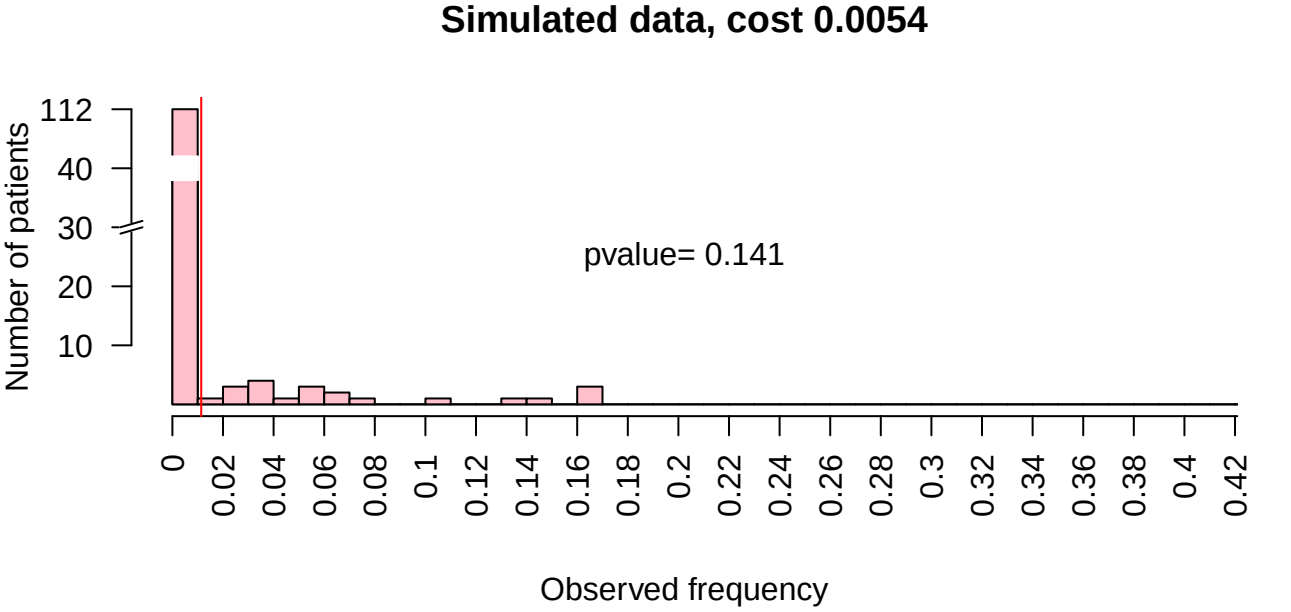

Single−SFS, site 180
Number of patients
138
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
Observed frequency

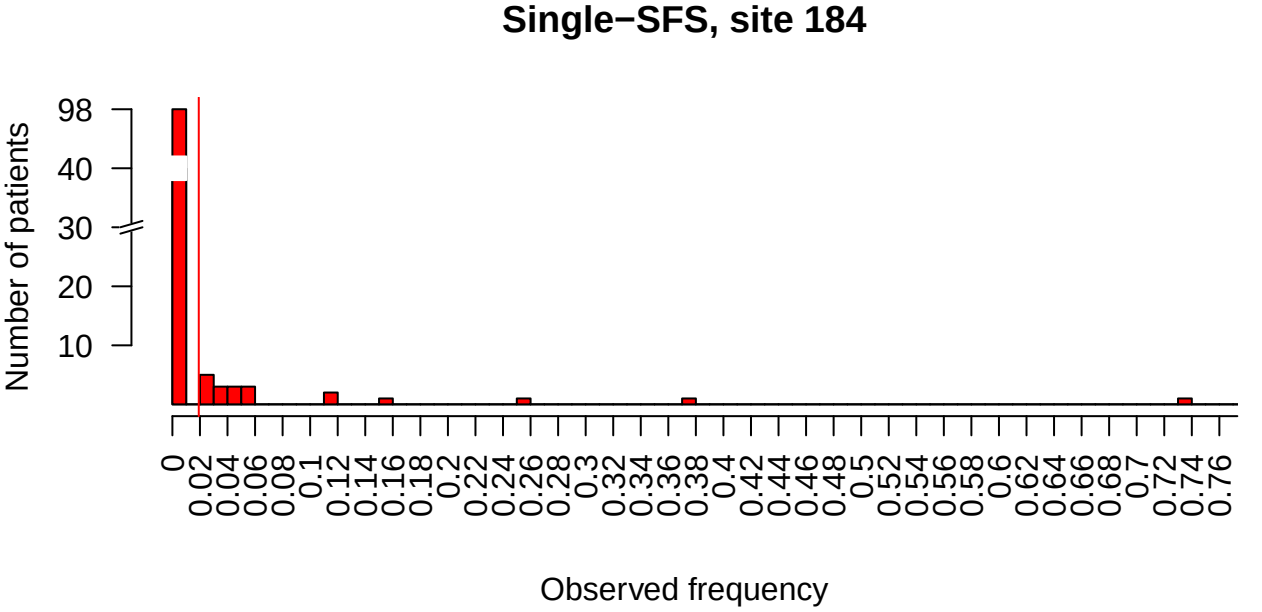

Simulated data, cost 0.0055
Number of patients
141
40
30
20
10
pvalue= 0.323
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
Observed frequency

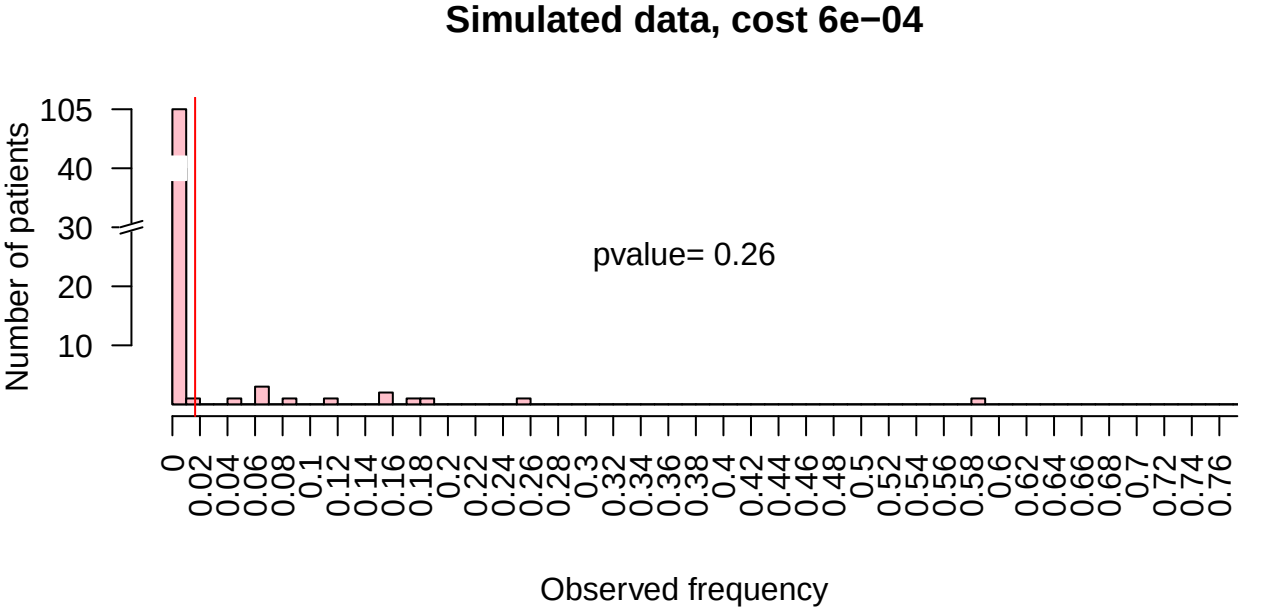

Single−SFS, site 182
Number of patients
134
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
Observed frequency

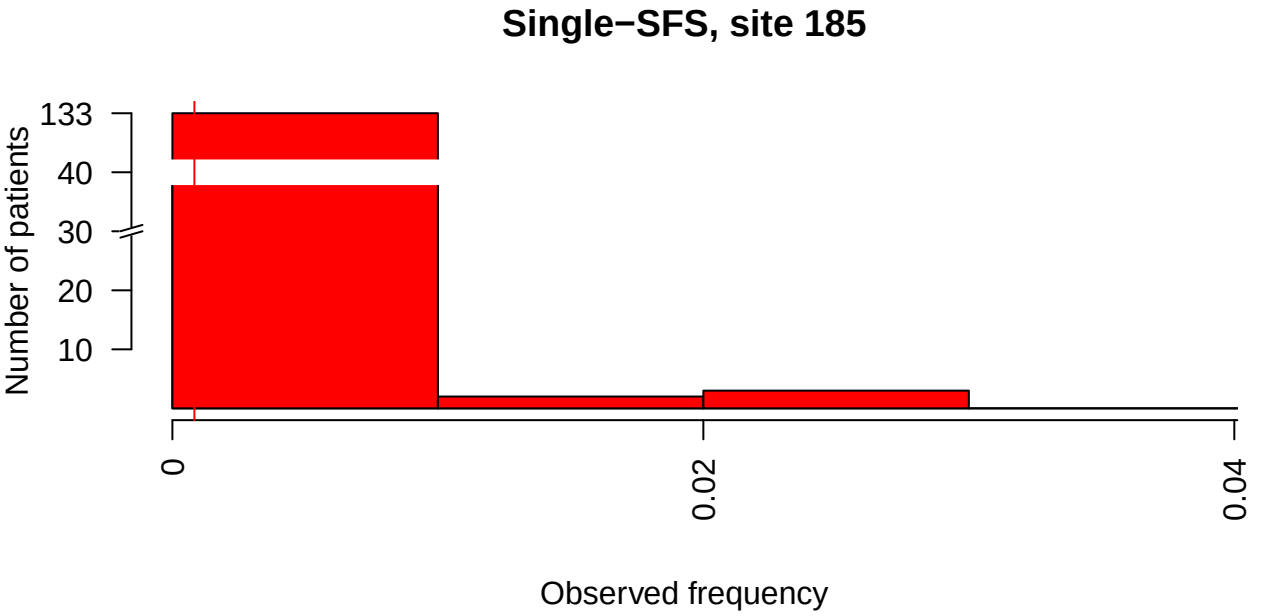

Simulated data, cost 0.004
Number of patients
143
40
30
20
10
pvalue= 0.012
0
0.02
0.04
0.06
0.08
0.1
0.12
Observed frequency

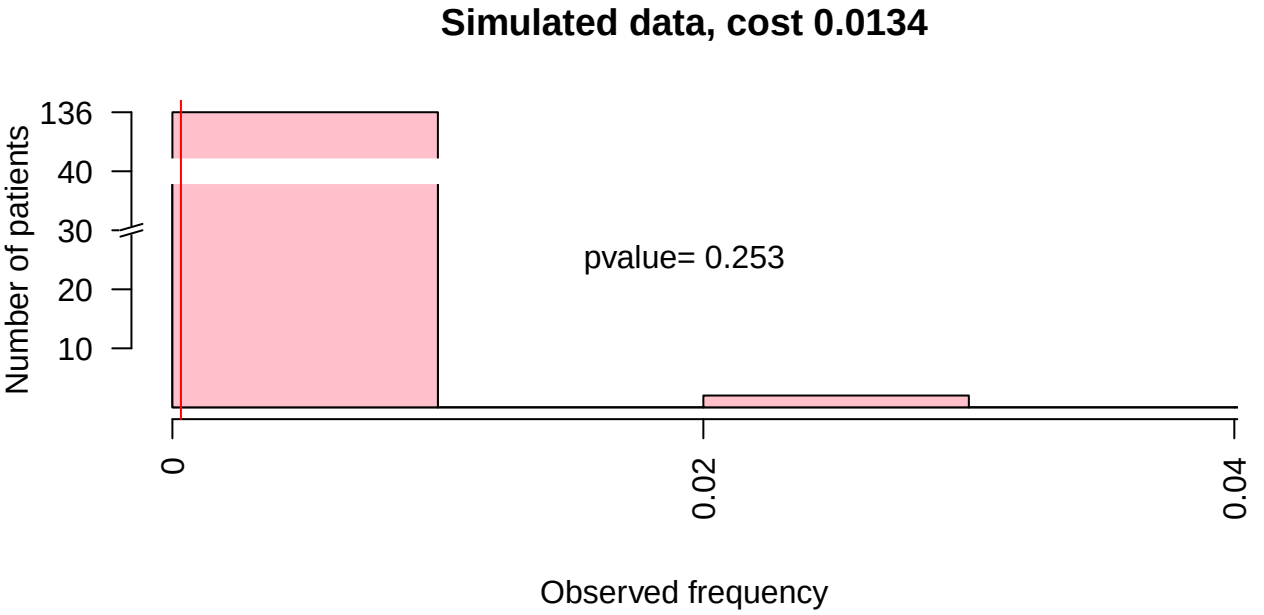

Single−SFS, site 183
Number of patients
120
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
0.24
0.26
0.28
0.3
0.32
0.34
0.36
0.38
0.4
0.42
Observed frequency

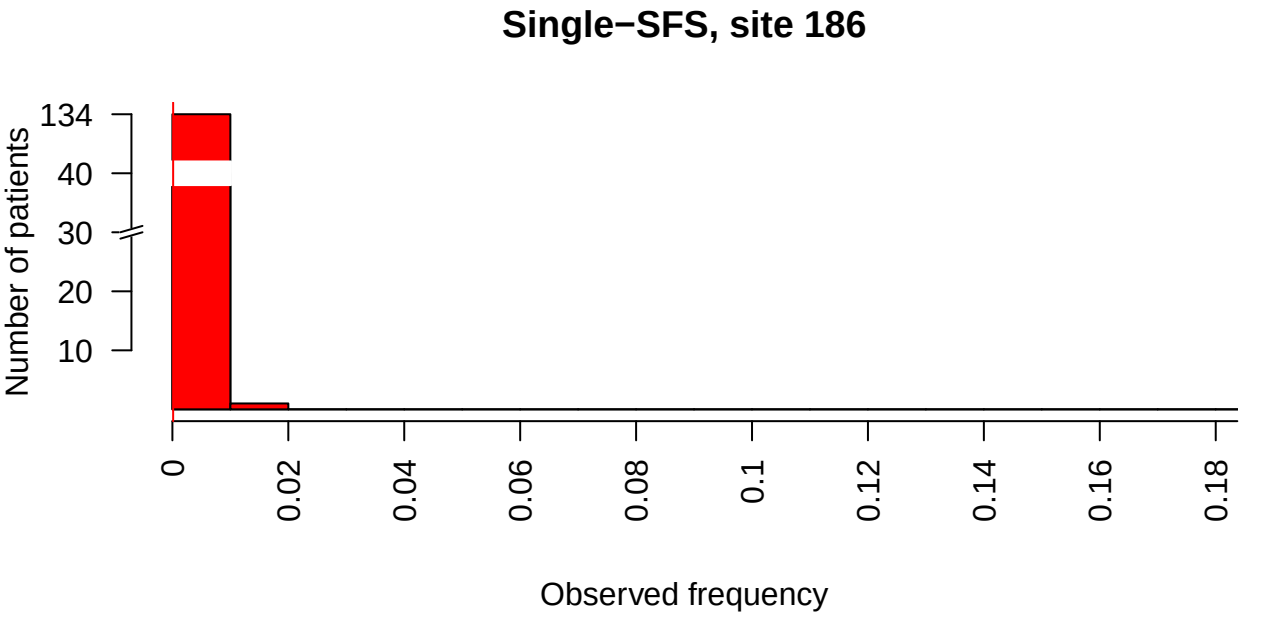

Simulated data, cost 0.0054
Number of patients
112
40
30
20
10
pvalue= 0.141
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
0.24
0.26
0.28
0.3
0.32
0.34
0.36
0.38
0.4
0.42
Observed frequency

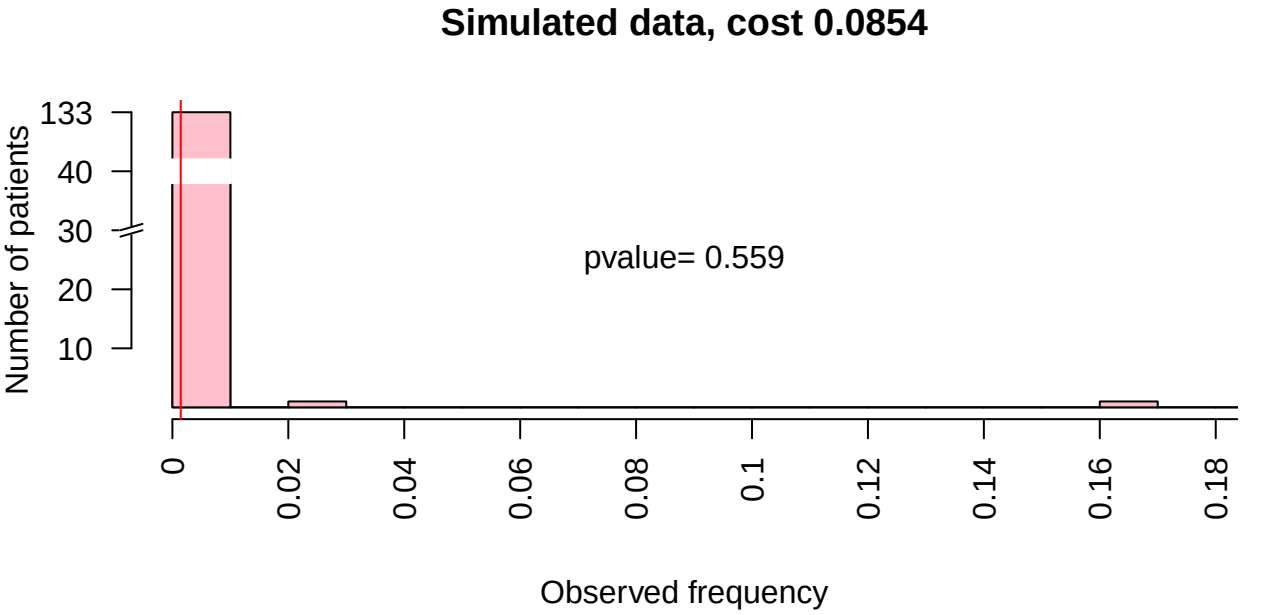

Single−SFS, site 184
Number of patients
98
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
0.24
0.26
0.28
0.3
0.32
0.34
0.36
0.38
0.4
0.42
0.44
0.46
0.48
0.5
0.52
0.54
0.56
0.58
0.6
0.62
0.64
0.66
0.68
0.7
0.72
0.74
0.76
Observed frequency

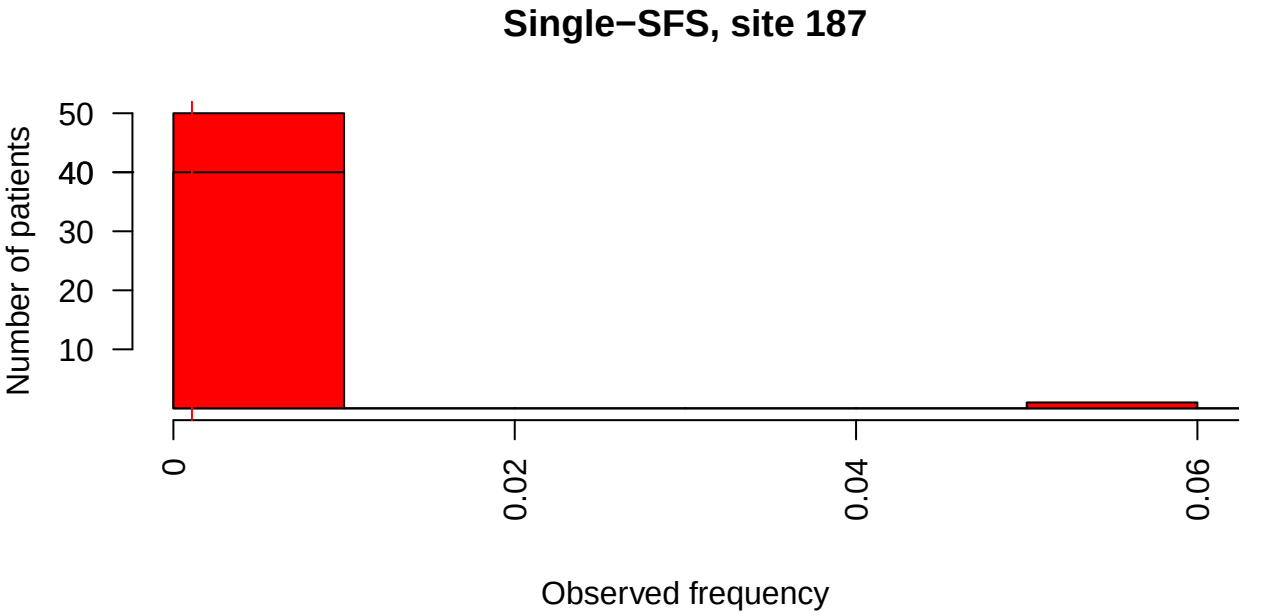

Simulated data, cost 6e−04
Number of patients
105
40
30
20
10
pvalue= 0.26
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
0.24
0.26
0.28
0.3
0.32
0.34
0.36
0.38
0.4
0.42
0.44
0.46
0.48
0.5
0.52
0.54
0.56
0.58
0.6
0.62
0.64
0.66
0.68
0.7
0.72
0.74
0.76
Observed frequency

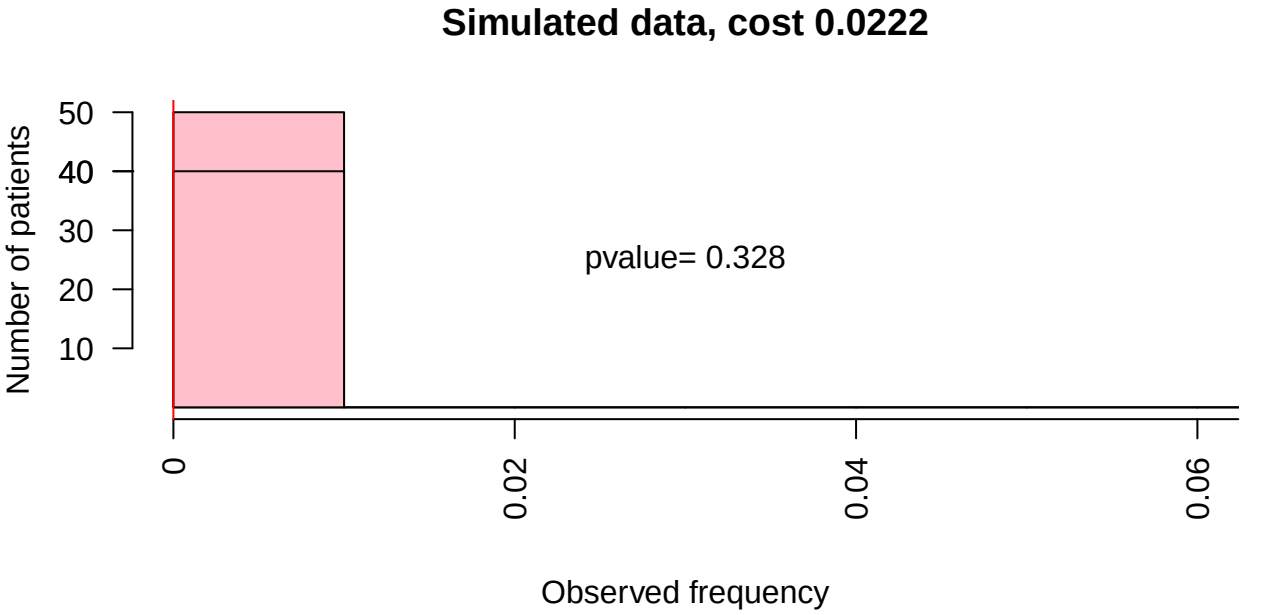

Single−SFS, site 185
Number of patients
133
40
30
20
10
0
0.02
0.04
Observed frequency

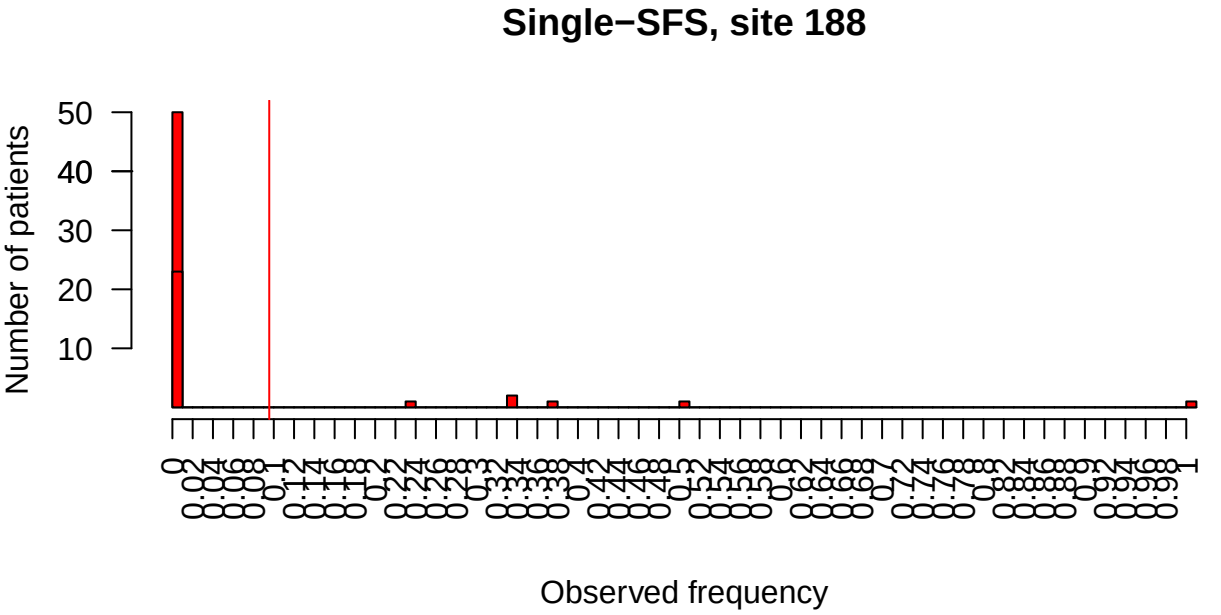

Simulated data, cost 0.0134
Number of patients
136
40
30
20
10
pvalue= 0.253
0
0.02
0.04
Observed frequency

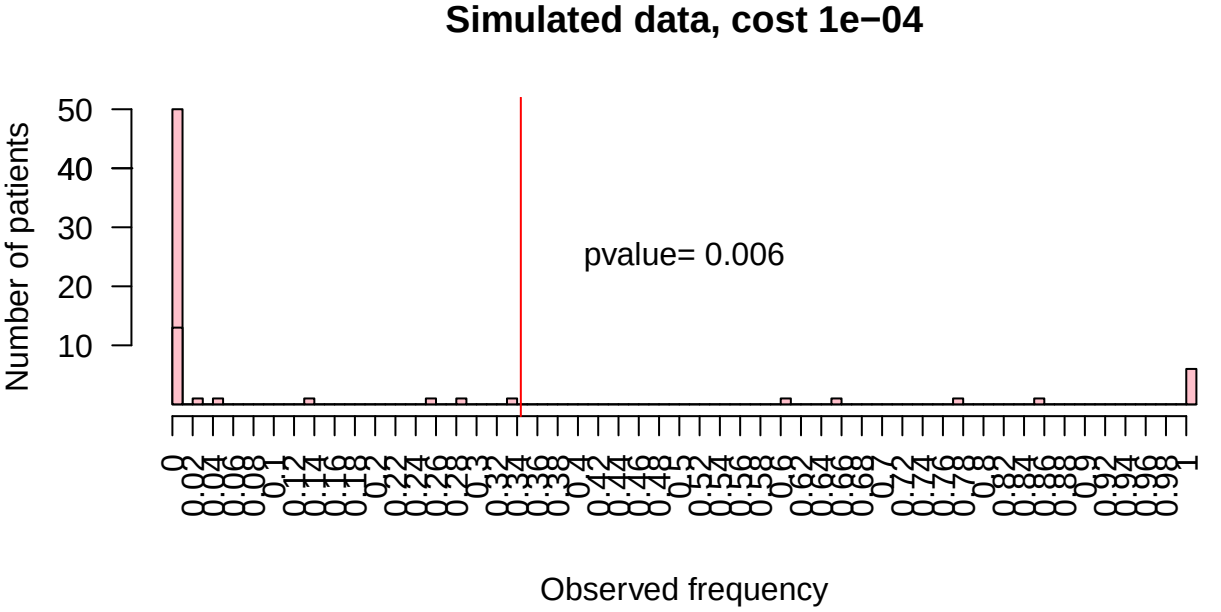

Single−SFS, site 186
Number of patients
134
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
Observed frequency

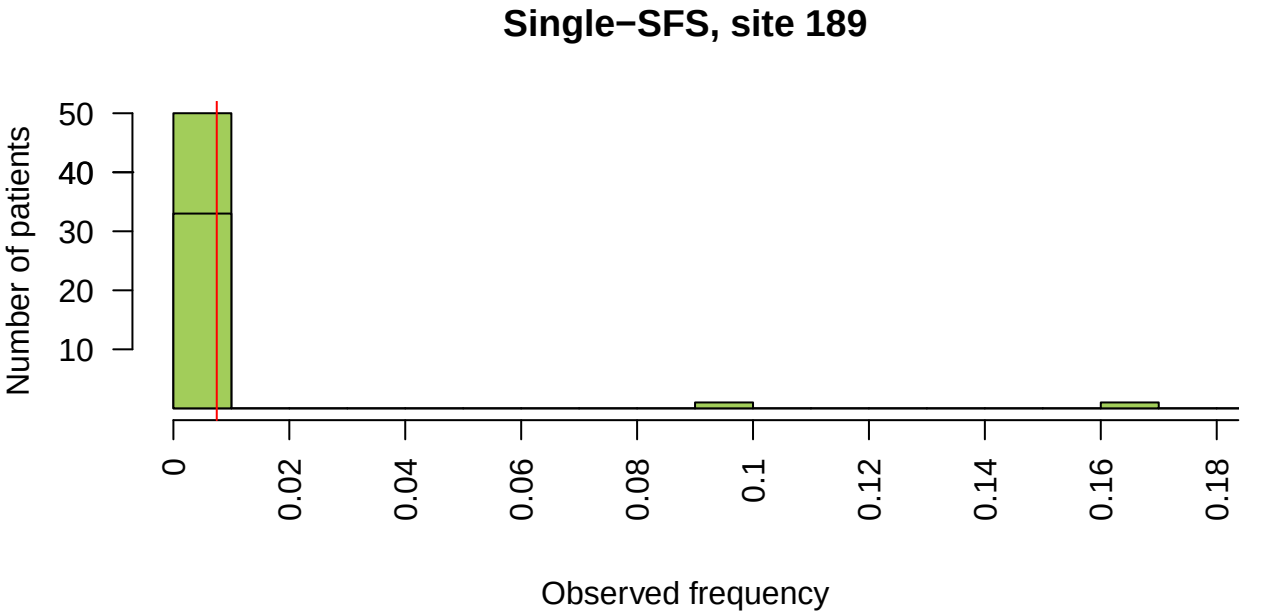

Simulated data, cost 0.0854
Number of patients
133
40
30
20
10
pvalue= 0.559
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
Observed frequency

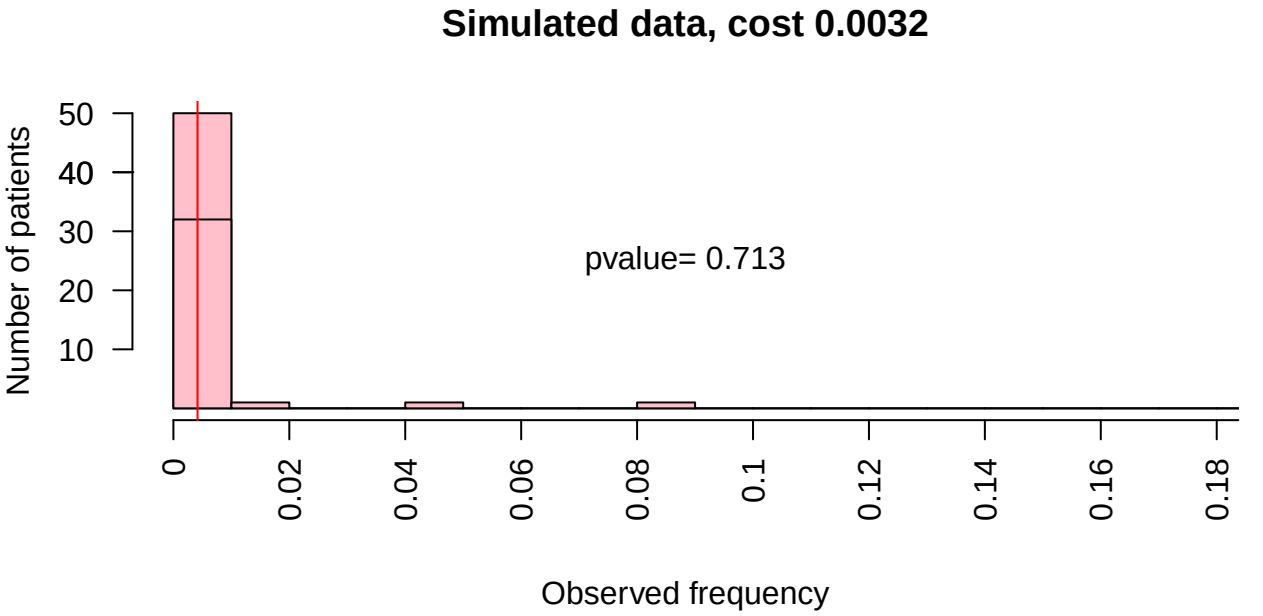

Single−SFS, site 187
Number of patients
50
40
30
20
10
0
0.02
0.04
0.06
Observed frequency

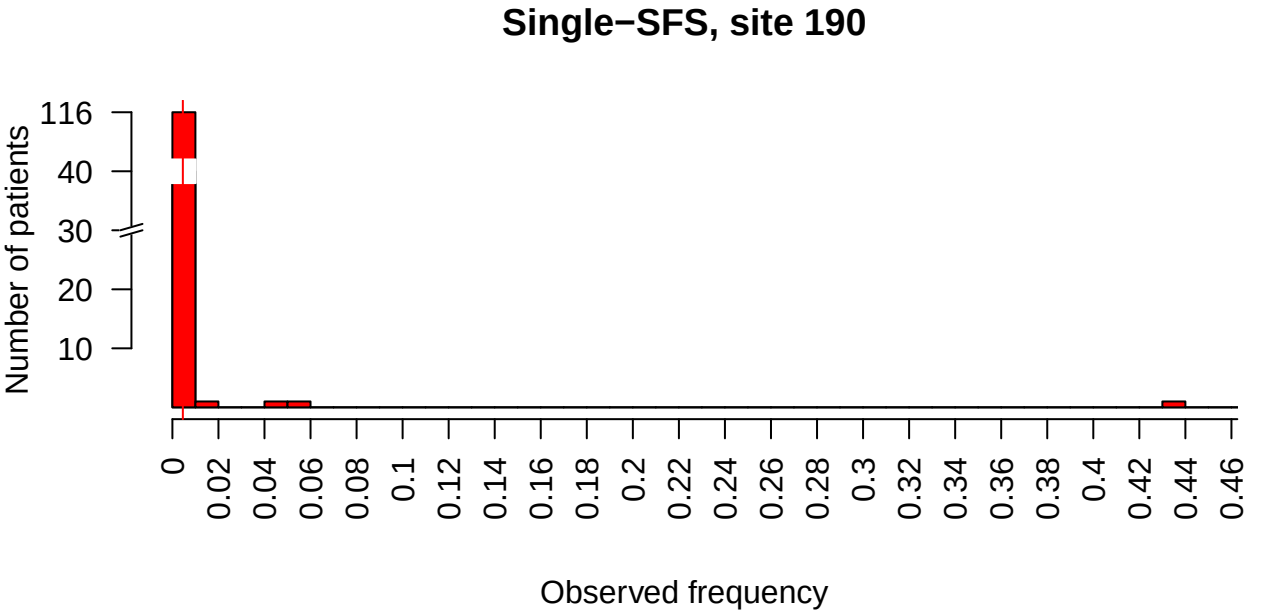

Simulated data, cost 0.0222
Number of patients
50
40
30
20
10
pvalue= 0.328
0
0.02
0.04
0.06
Observed frequency

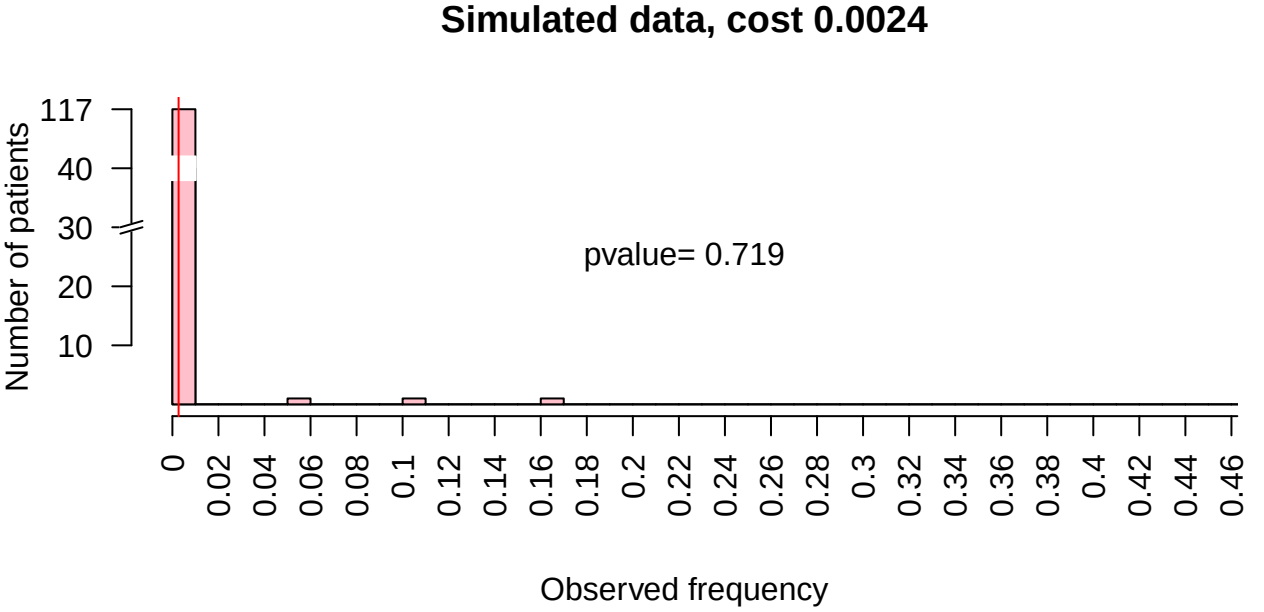

Single−SFS, site 188
Number of patients
50
40
30
20
10
Observed frequency

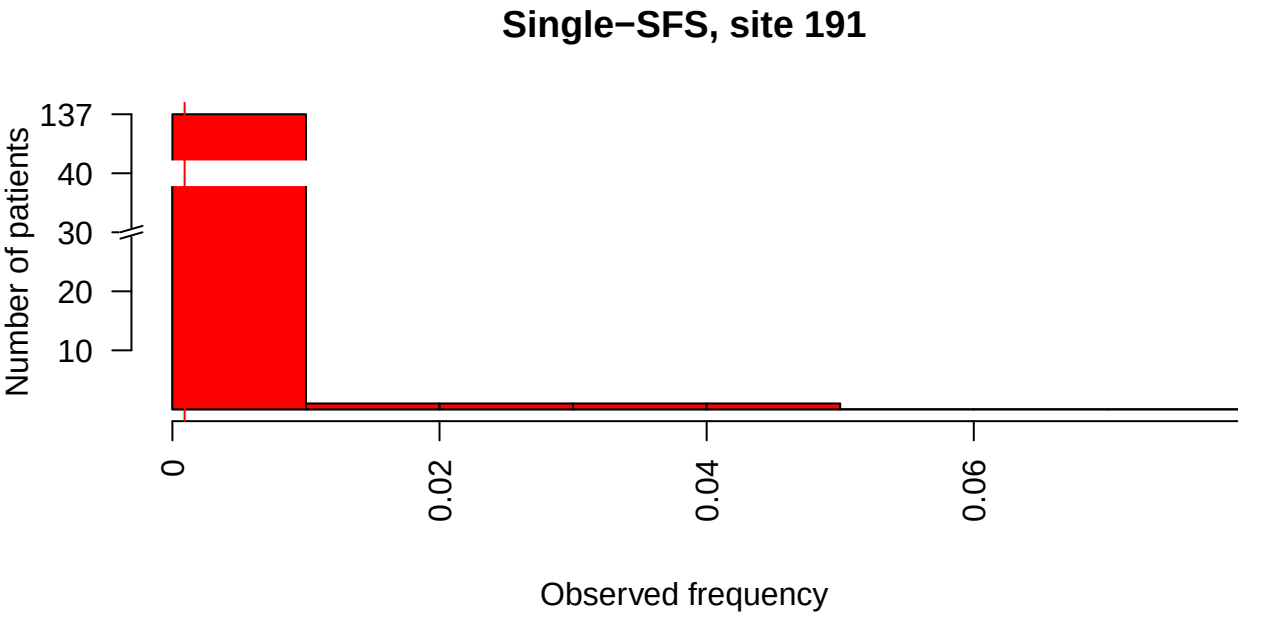

Simulated data, cost 1e−04
Number of patients
50
40
30
20
10
pvalue= 0.006
Observed frequency

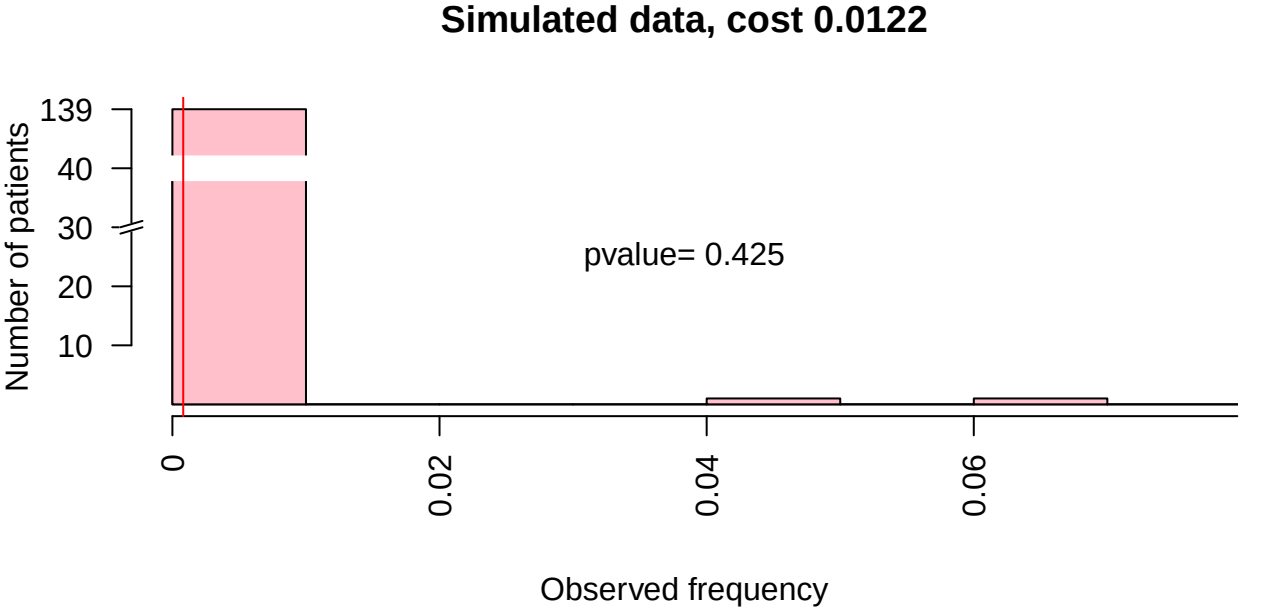

Single−SFS, site 189
Number of patients
50
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
Observed frequency

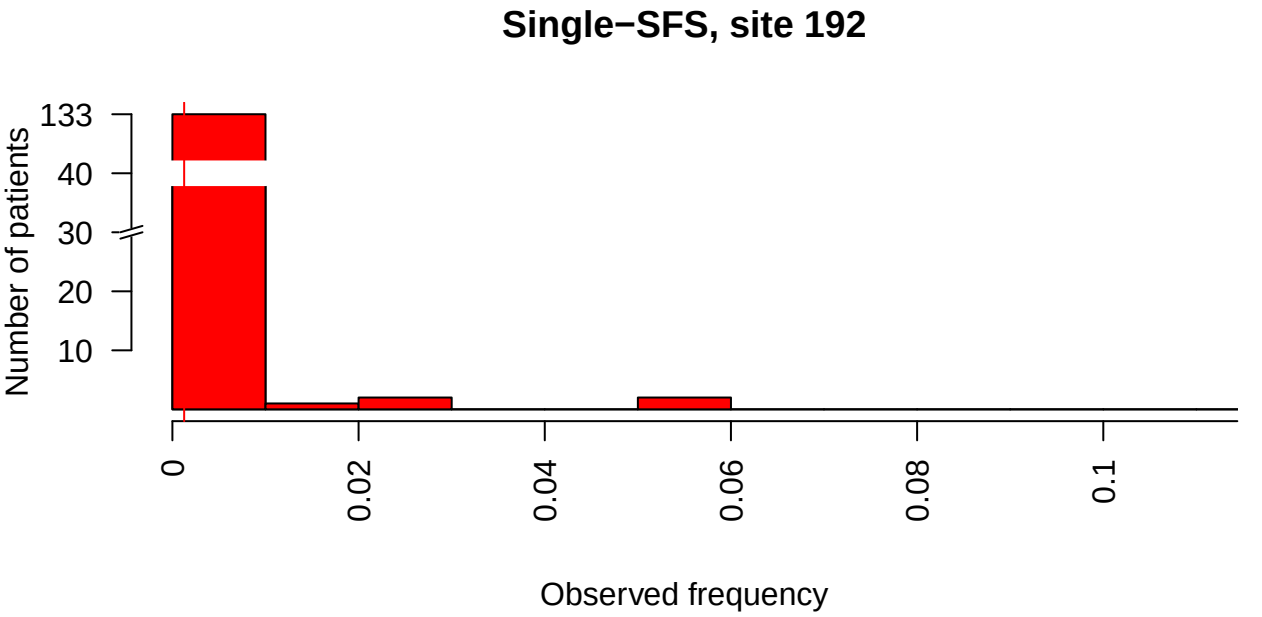

Simulated data, cost 0.0032
Number of patients
50
40
30
20
10
pvalue= 0.713
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
Observed frequency

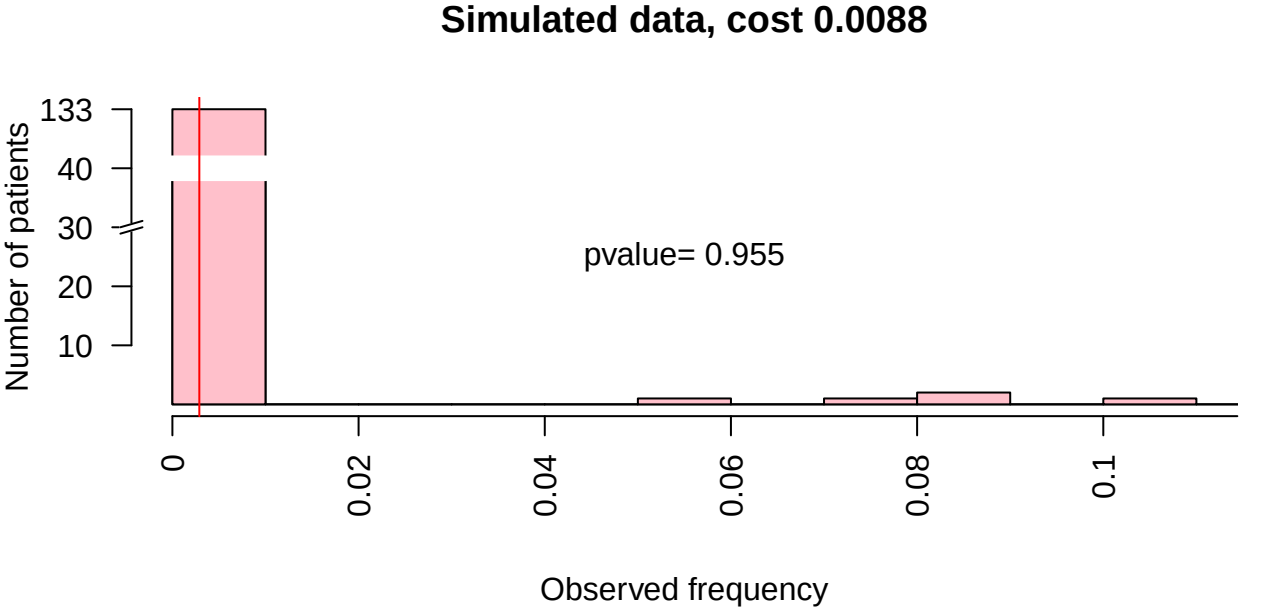

Single−SFS, site 190
Number of patients
116
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
0.24
0.26
0.28
0.3
0.32
0.34
0.36
0.38
0.4
0.42
0.44
0.46
Observed frequency

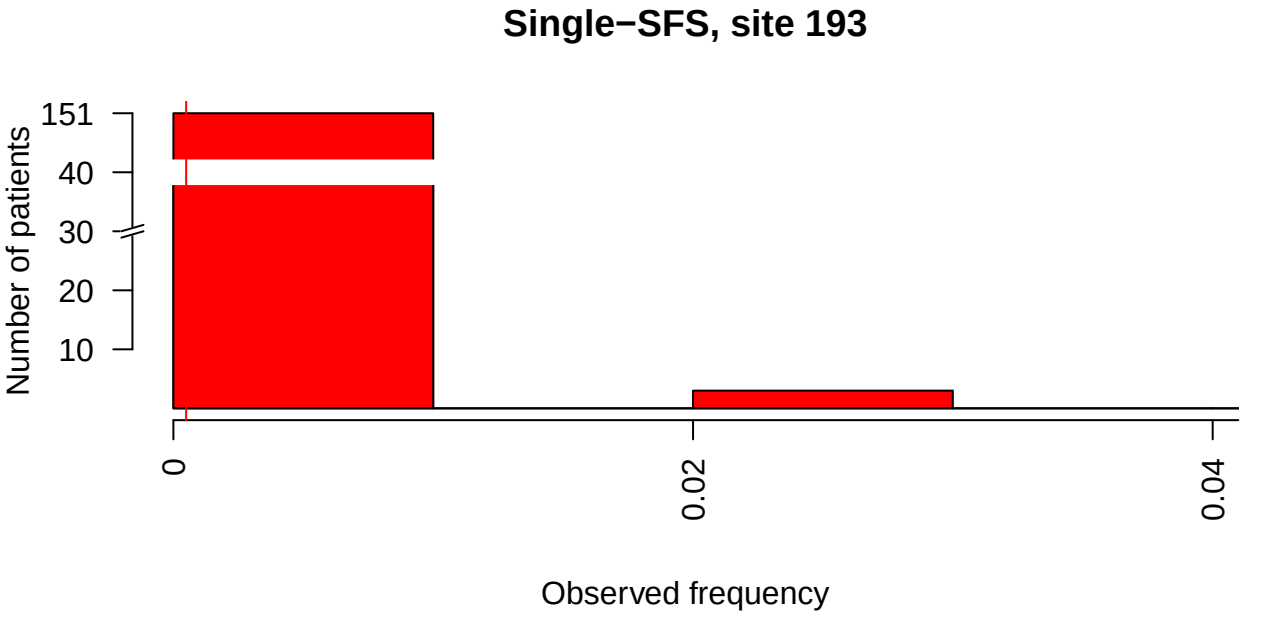

Simulated data, cost 0.0024
Number of patients
117
40
30
20
10
pvalue= 0.719
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
0.24
0.26
0.28
0.3
0.32
0.34
0.36
0.38
0.4
0.42
0.44
0.46
Observed frequency

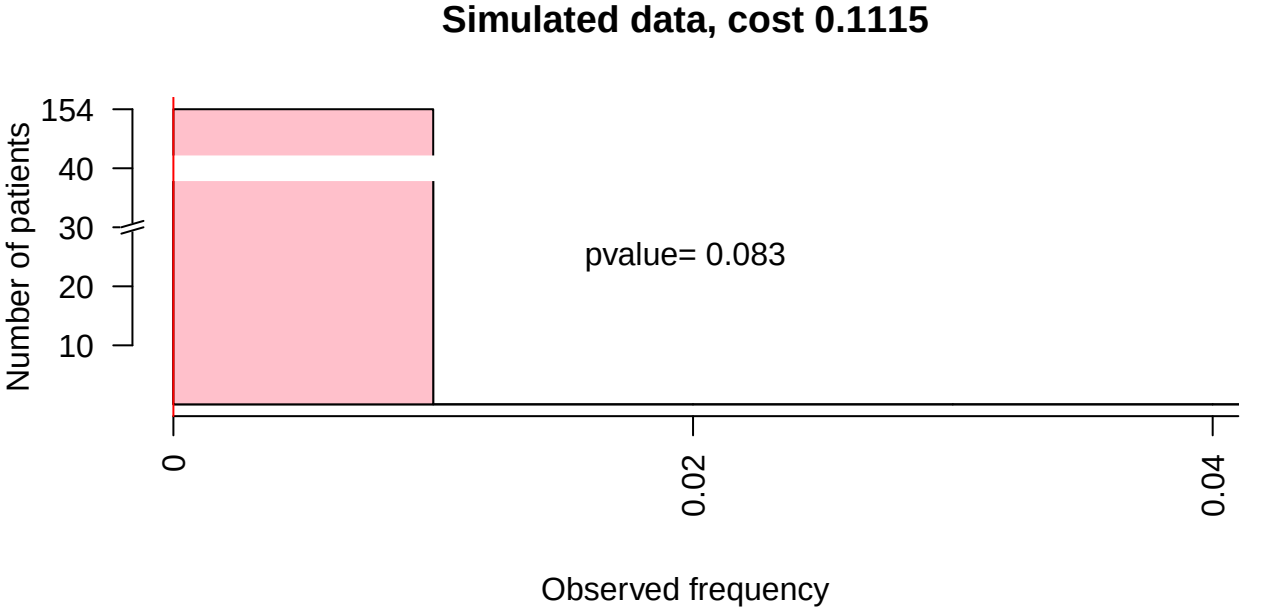

Single−SFS, site 191
Number of patients
137
40
30
20
10
0
0.02
0.04
0.06
Observed frequency

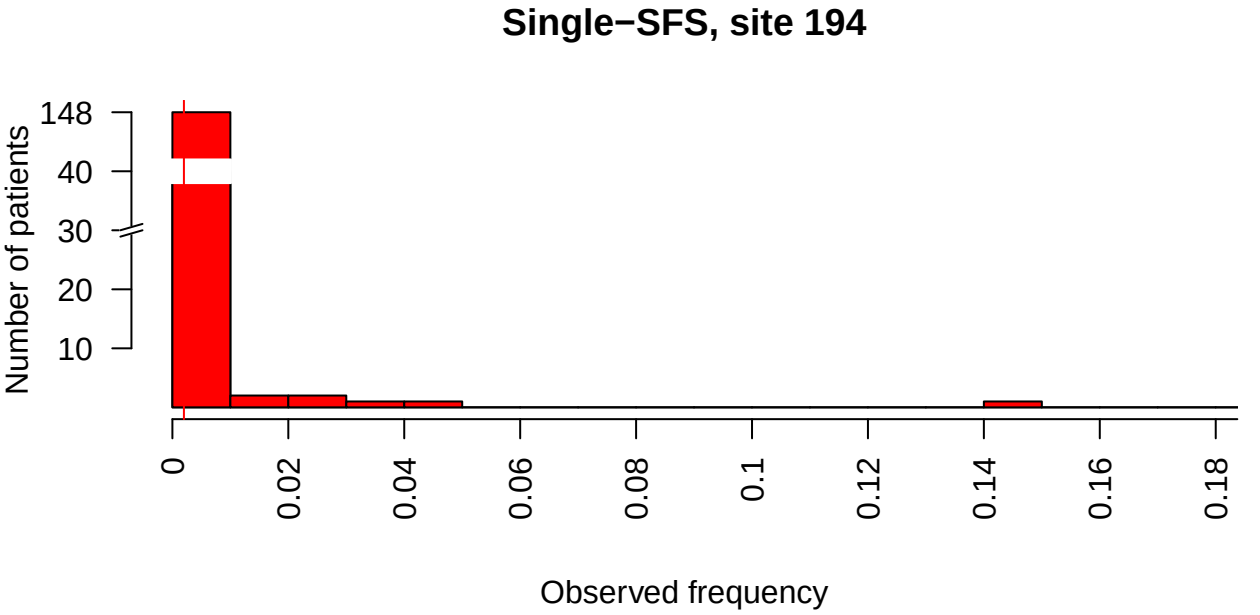

Simulated data, cost 0.0122
Number of patients
139
40
30
20
10
pvalue= 0.425
0
0.02
0.04
0.06
Observed frequency

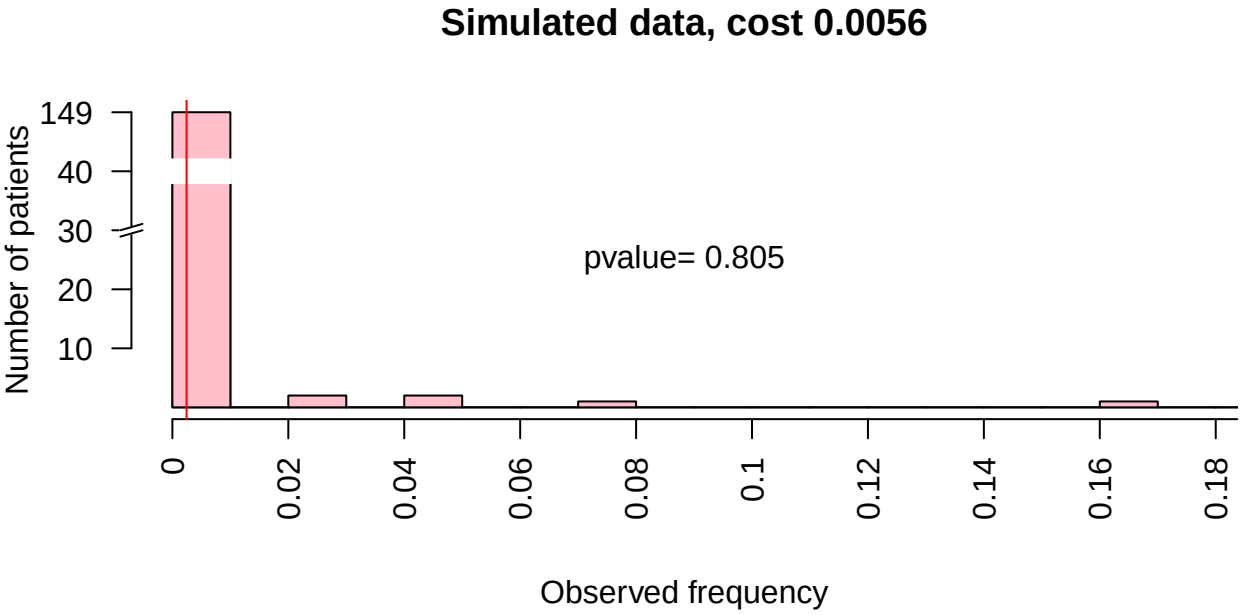

Single−SFS, site 192
Number of patients
133
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
Observed frequency

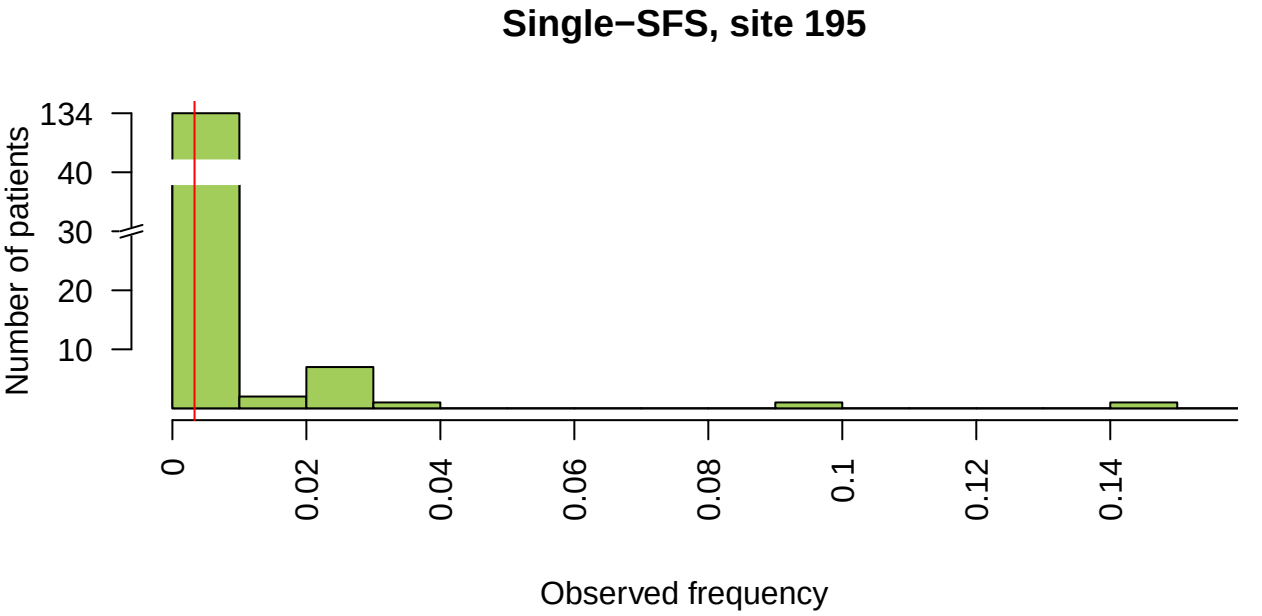

Simulated data, cost 0.0088
Number of patients
133
40
30
20
10
pvalue= 0.955
0
0.02
0.04
0.06
0.08
0.1
Observed frequency

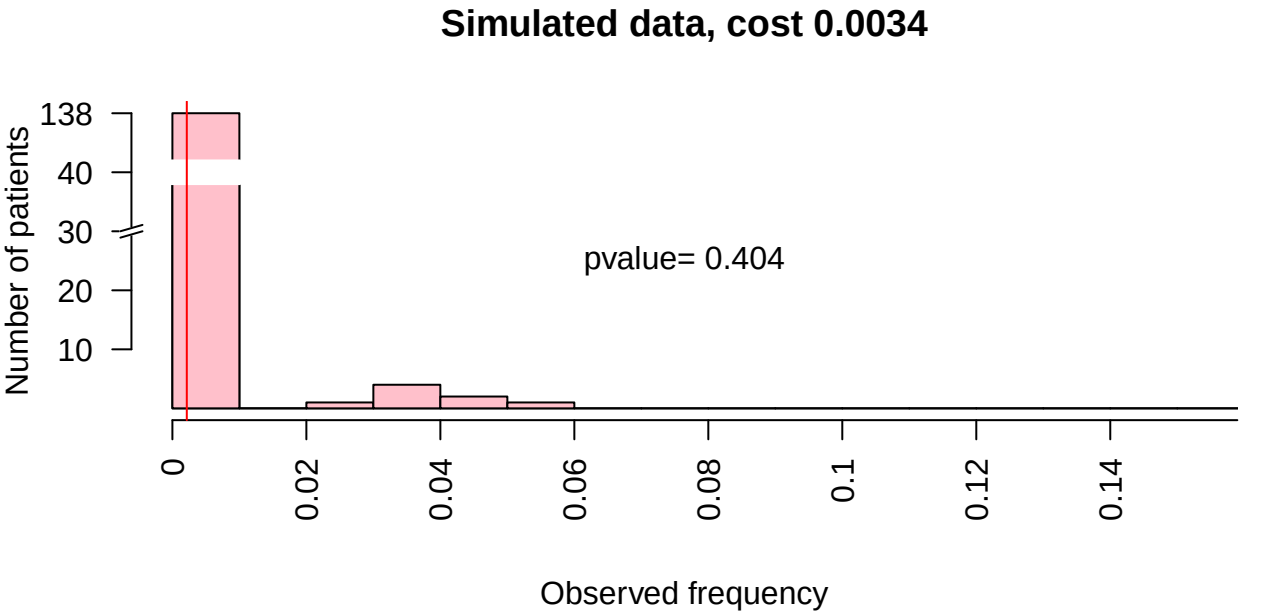

Single−SFS, site 193
Number of patients
151
40
30
20
10
0
0.02
0.04
Observed frequency

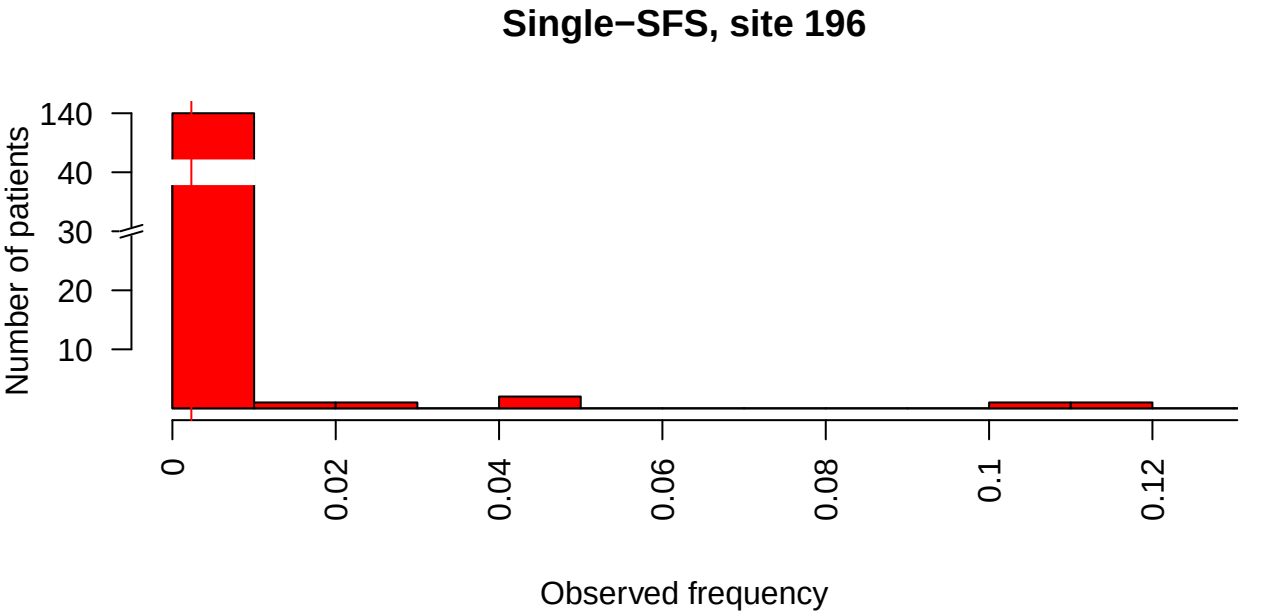

Simulated data, cost 0.1115
Number of patients
154
40
30
20
10
pvalue= 0.083
0
0.02
0.04
Observed frequency

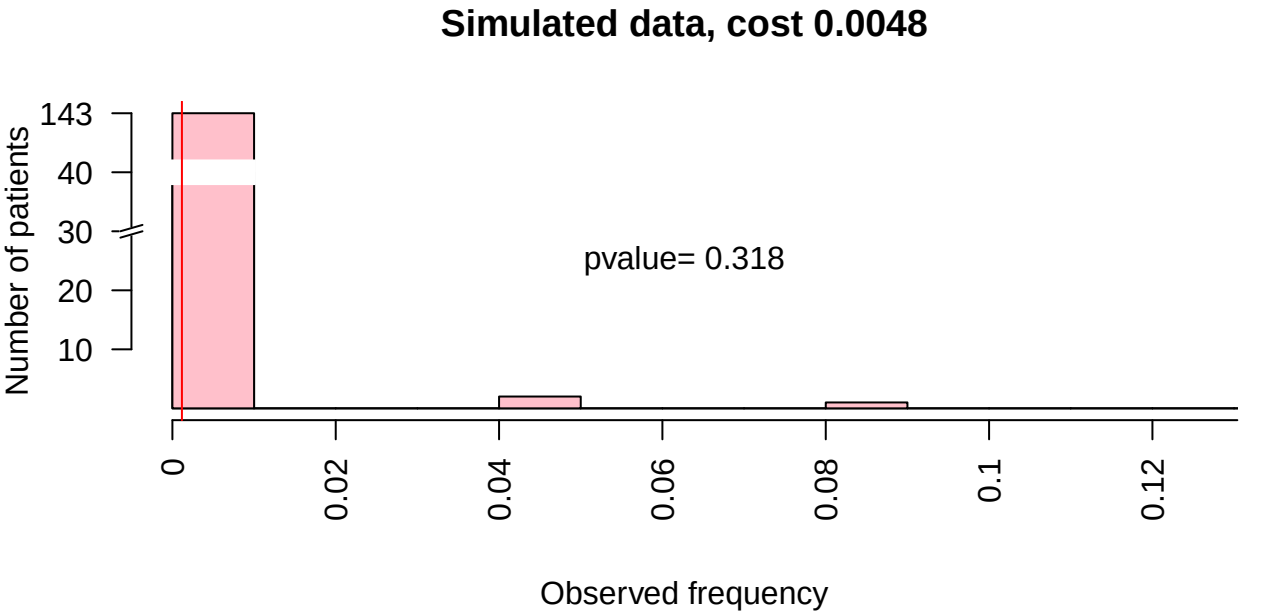

Single−SFS, site 194
Number of patients
148
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
Observed frequency

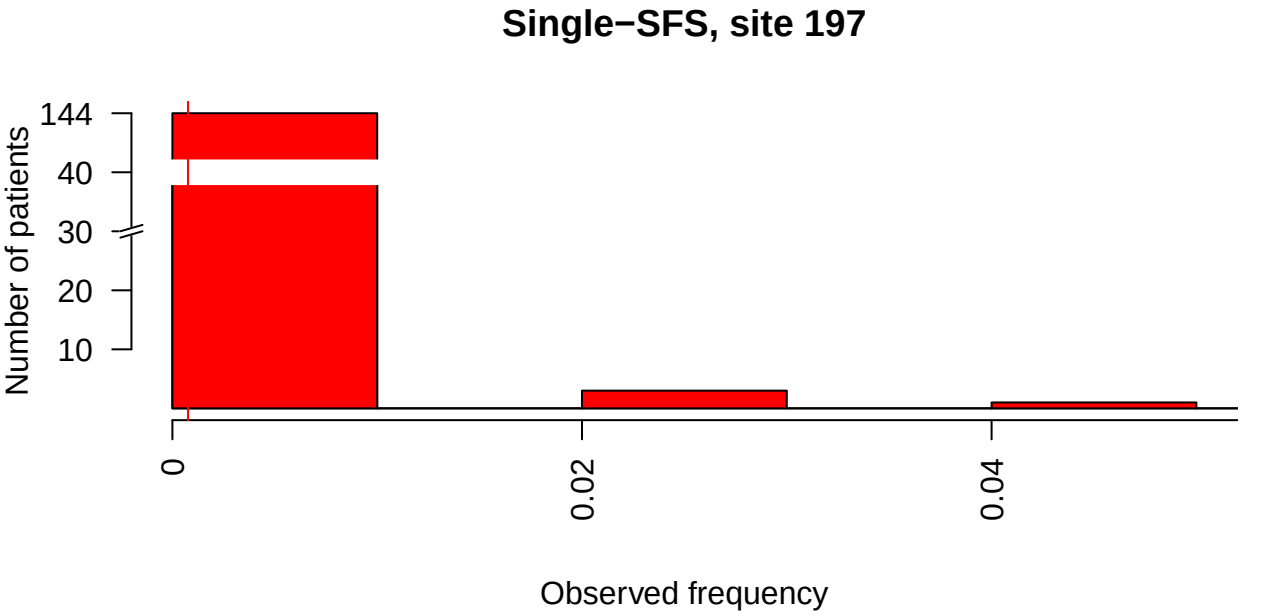

Simulated data, cost 0.0056
Number of patients
149
40
30
20
10
pvalue= 0.805
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
Observed frequency

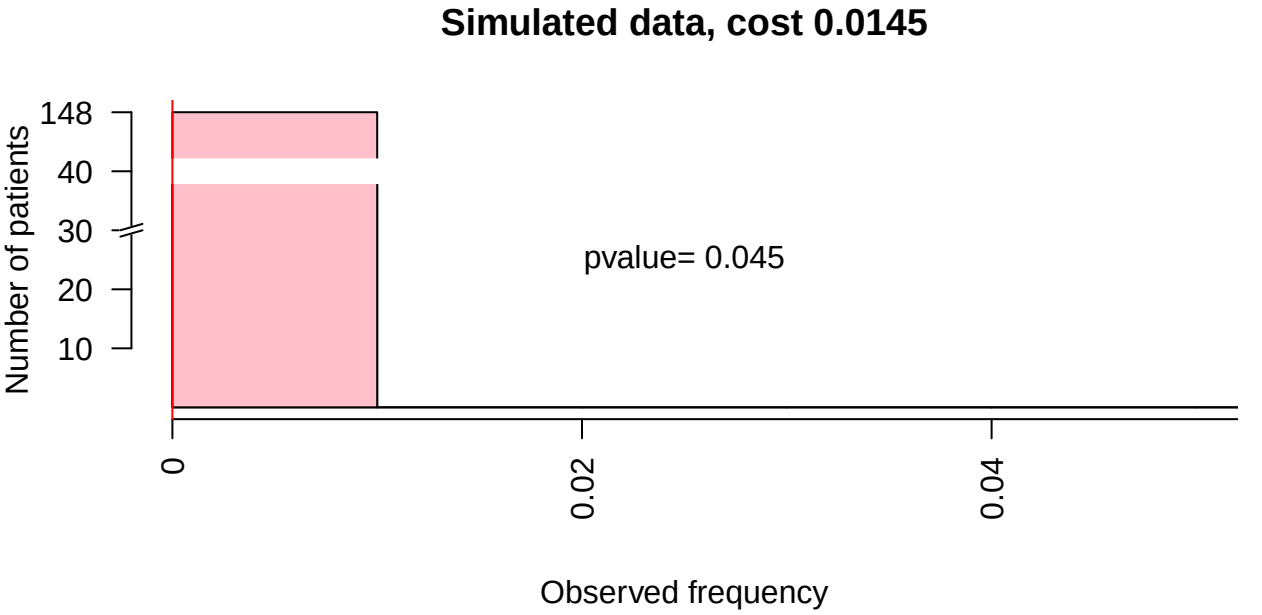

Single−SFS, site 195
Number of patients
134
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
Observed frequency

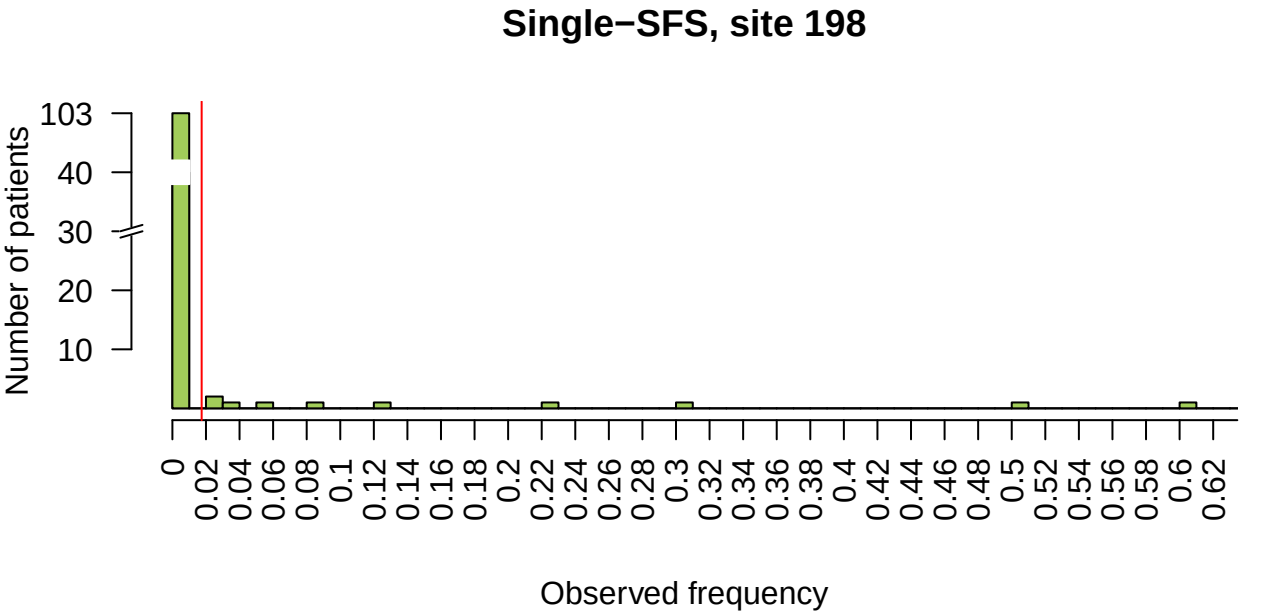

Simulated data, cost 0.0034
Number of patients
138
40
30
20
10
pvalue= 0.404
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
Observed frequency

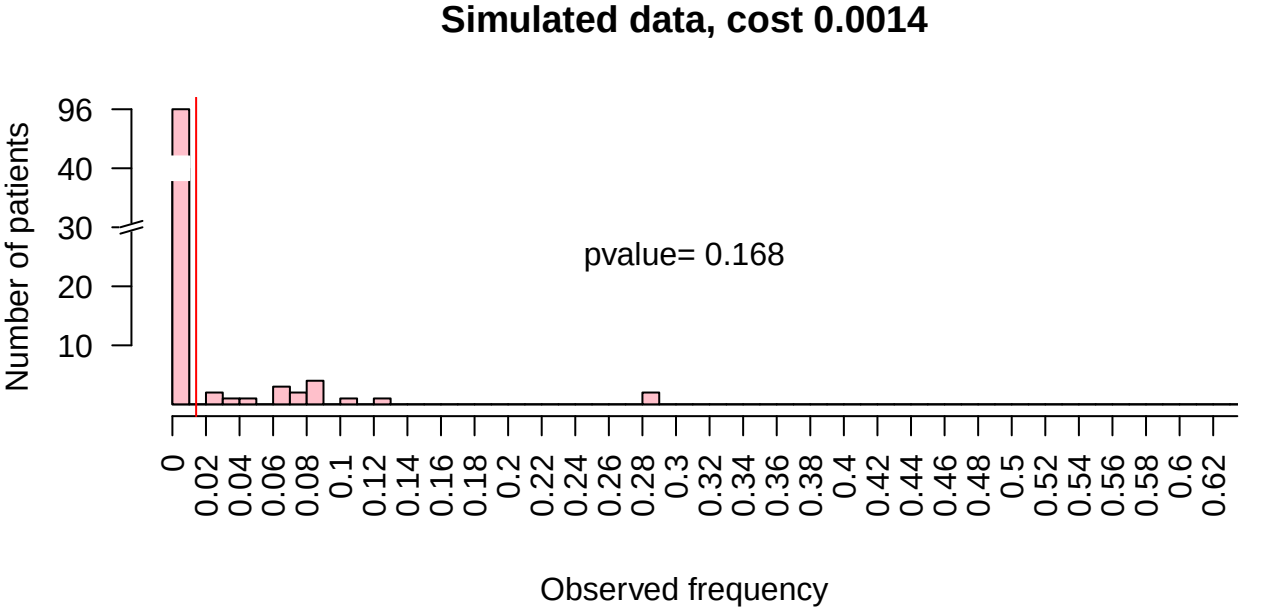

Single−SFS, site 196
Number of patients
140
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
Observed frequency

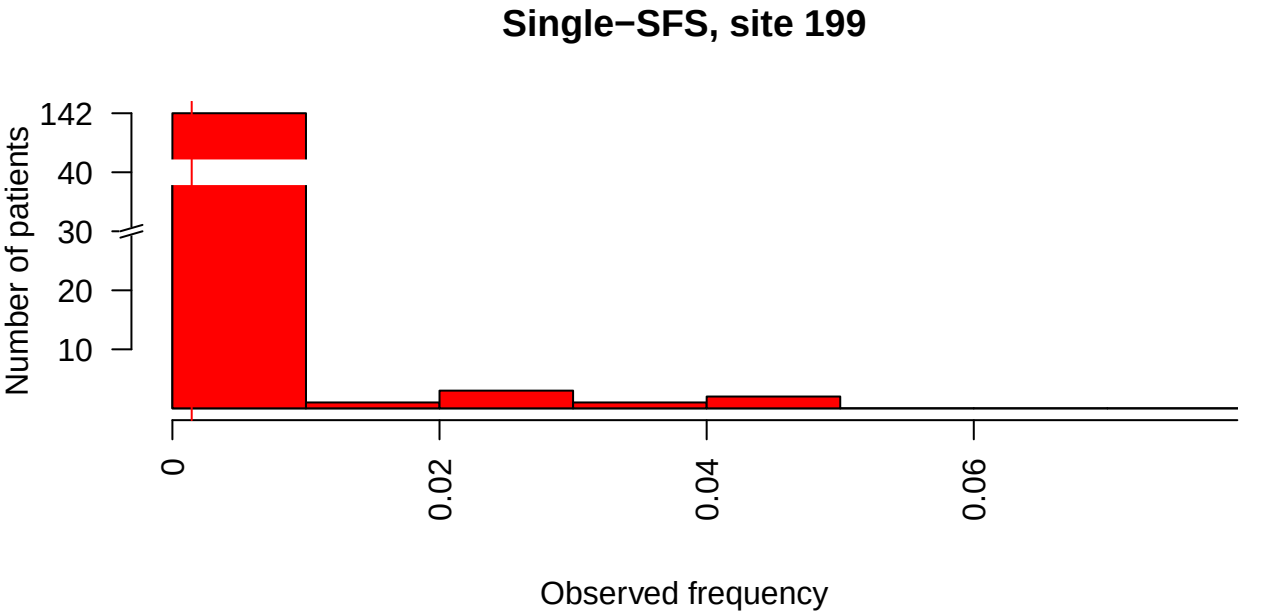

Simulated data, cost 0.0048
Number of patients
143
40
30
20
10
pvalue= 0.318
0
0.02
0.04
0.06
0.08
0.1
0.12
Observed frequency

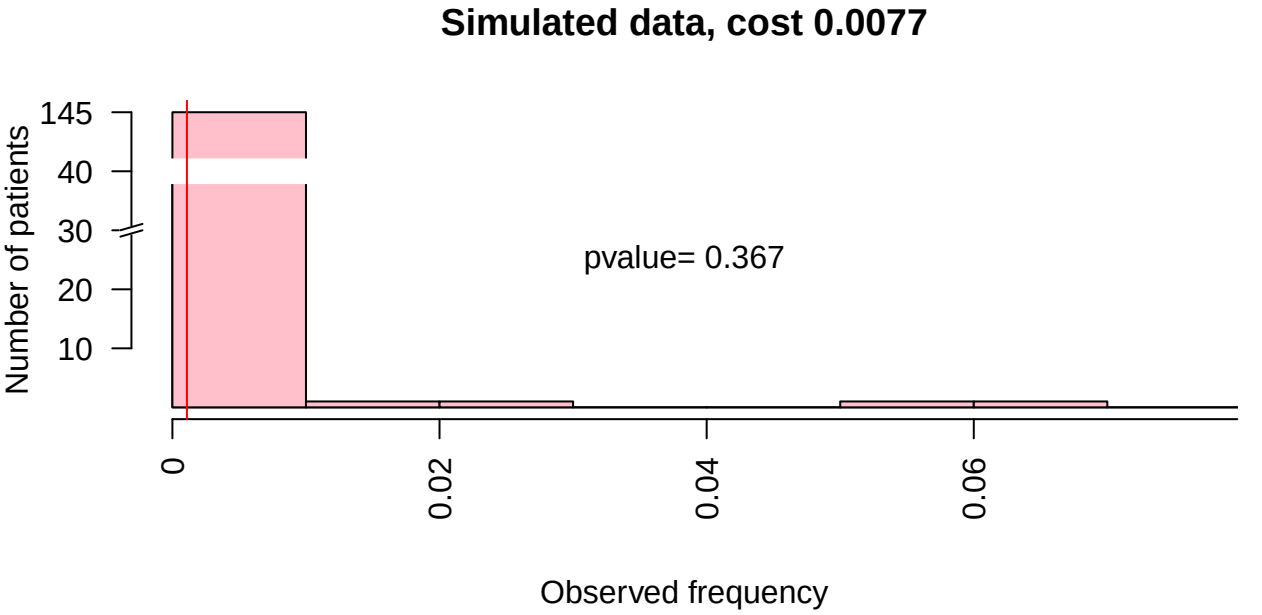

Single−SFS, site 197
Number of patients
144
40
30
20
10
0
0.02
0.04
Observed frequency

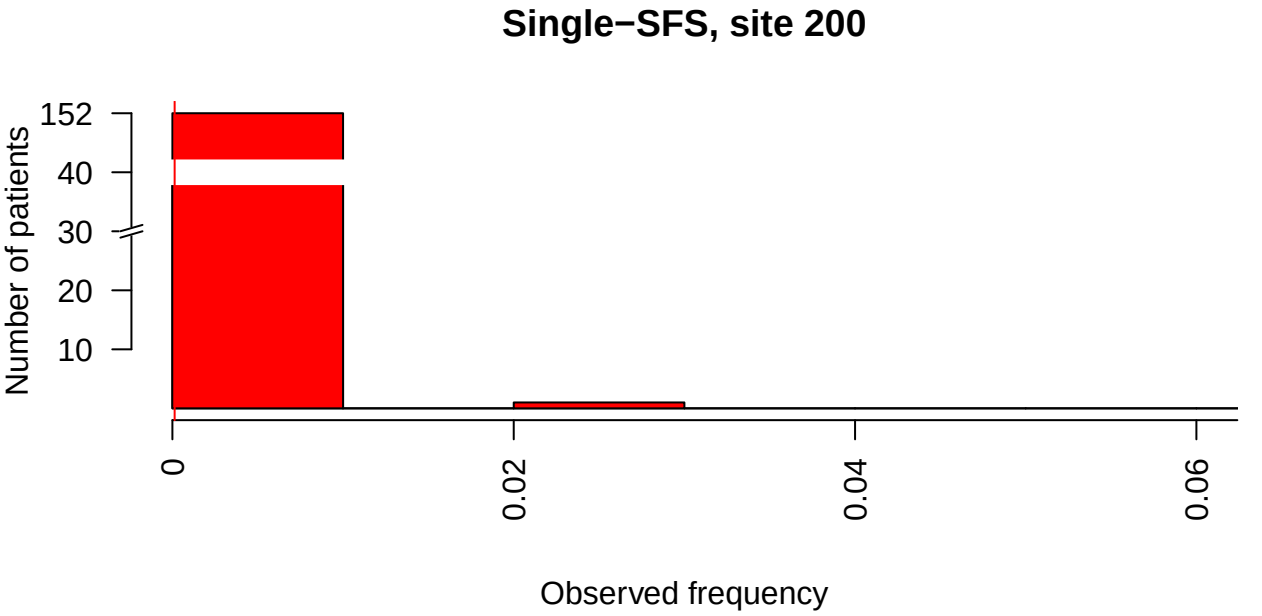

Simulated data, cost 0.0145
Number of patients
148
40
30
20
10
pvalue= 0.045
0
0.02
0.04
Observed frequency

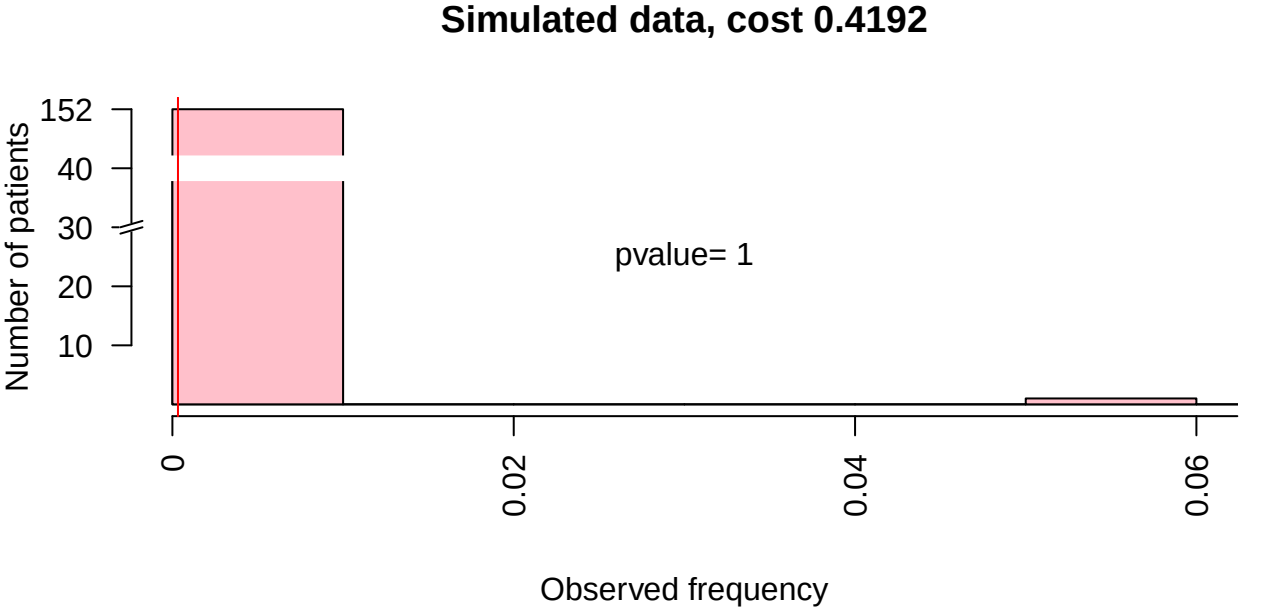

Single−SFS, site 198
Number of patients
103
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
0.24
0.26
0.28
0.3
0.32
0.34
0.36
0.38
0.4
0.42
0.44
0.46
0.48
0.5
0.52
0.54
0.56
0.58
0.6
0.62
Observed frequency

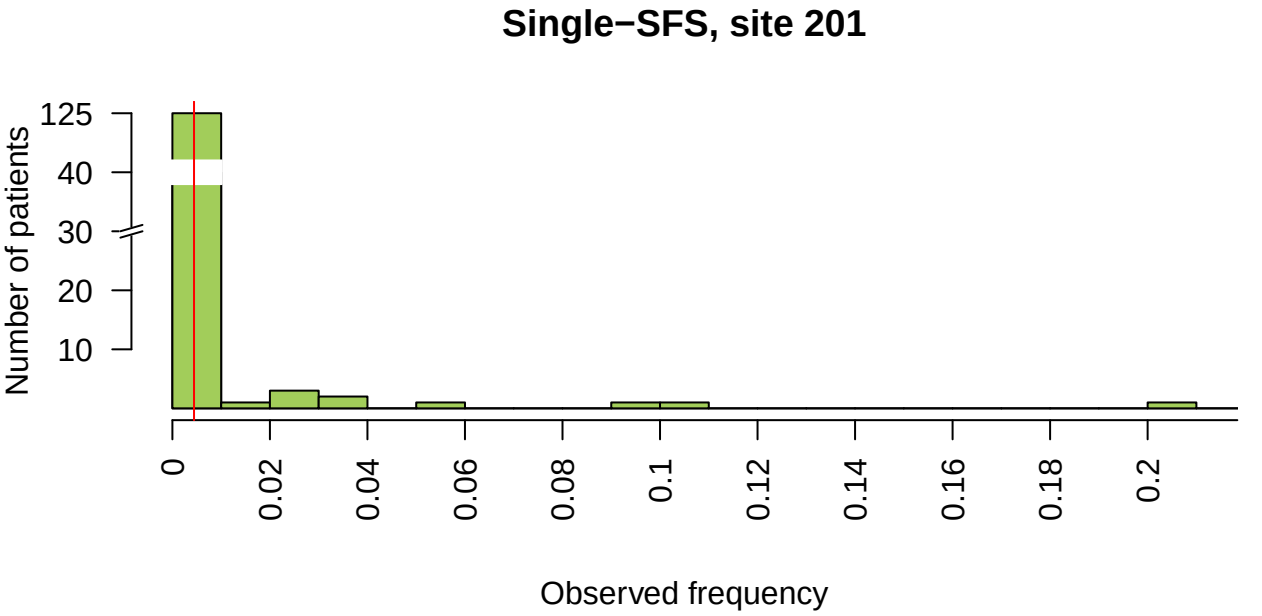

Simulated data, cost 0.0014
Number of patients
96
40
30
20
10
pvalue= 0.168
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
0.24
0.26
0.28
0.3
0.32
0.34
0.36
0.38
0.4
0.42
0.44
0.46
0.48
0.5
0.52
0.54
0.56
0.58
0.6
0.62
Observed frequency

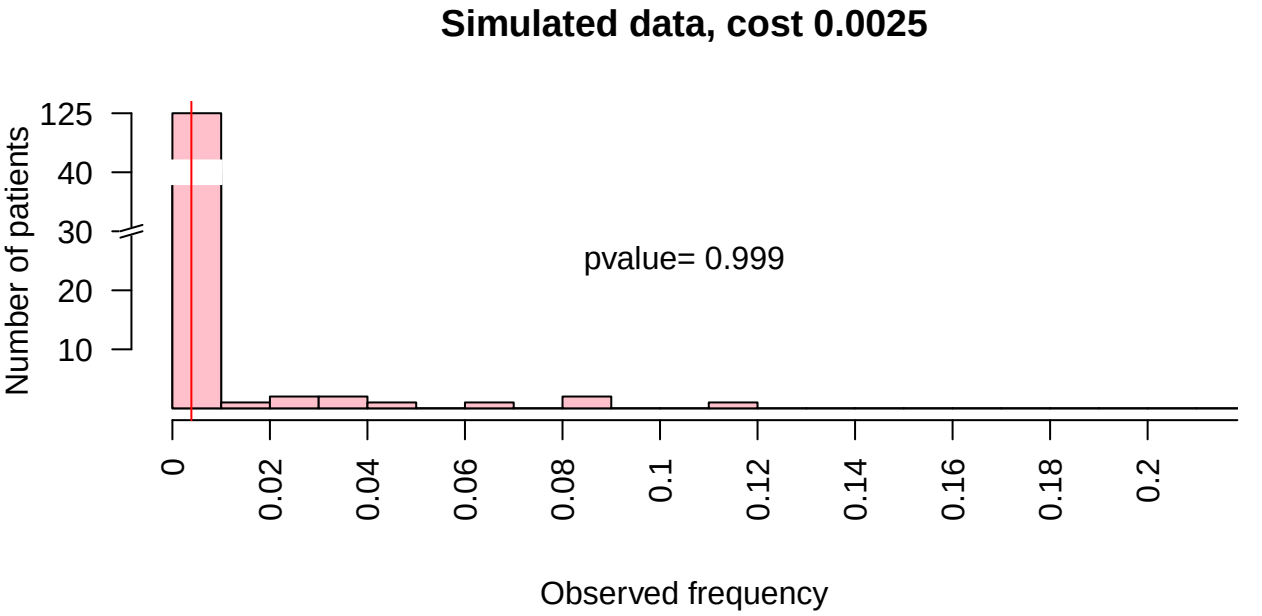

Single−SFS, site 199
Number of patients
142
40
30
20
10
0
0.02
0.04
0.06
Observed frequency

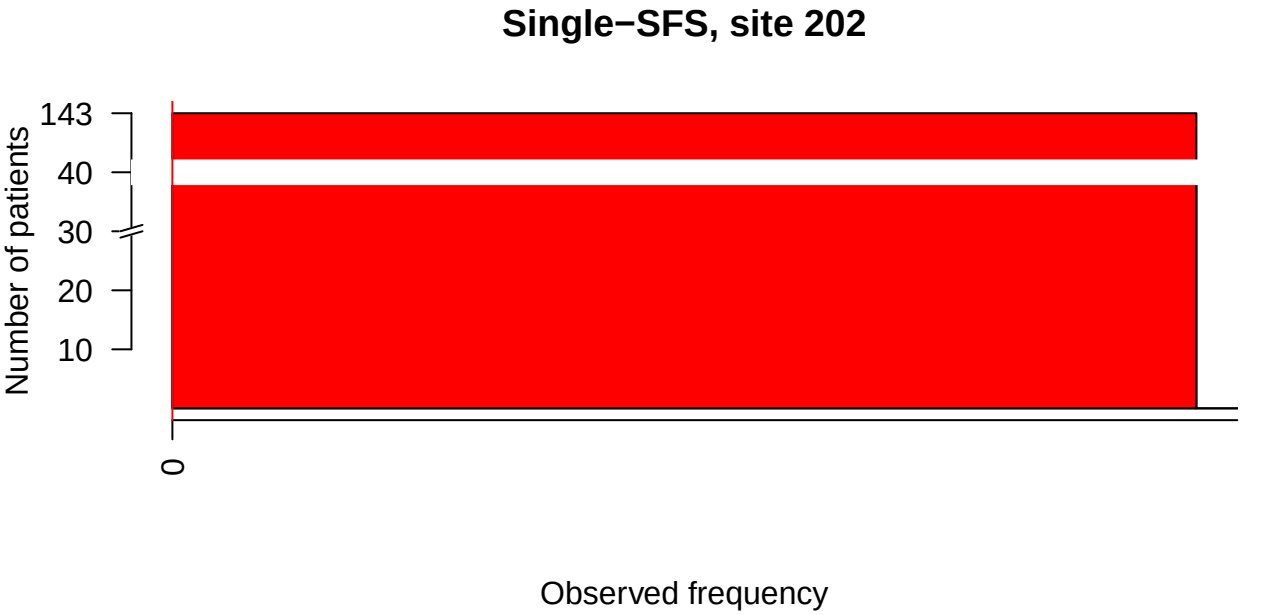

Simulated data, cost 0.0077
Number of patients
145
40
30
20
10
pvalue= 0.367
0
0.02
0.04
0.06
Observed frequency

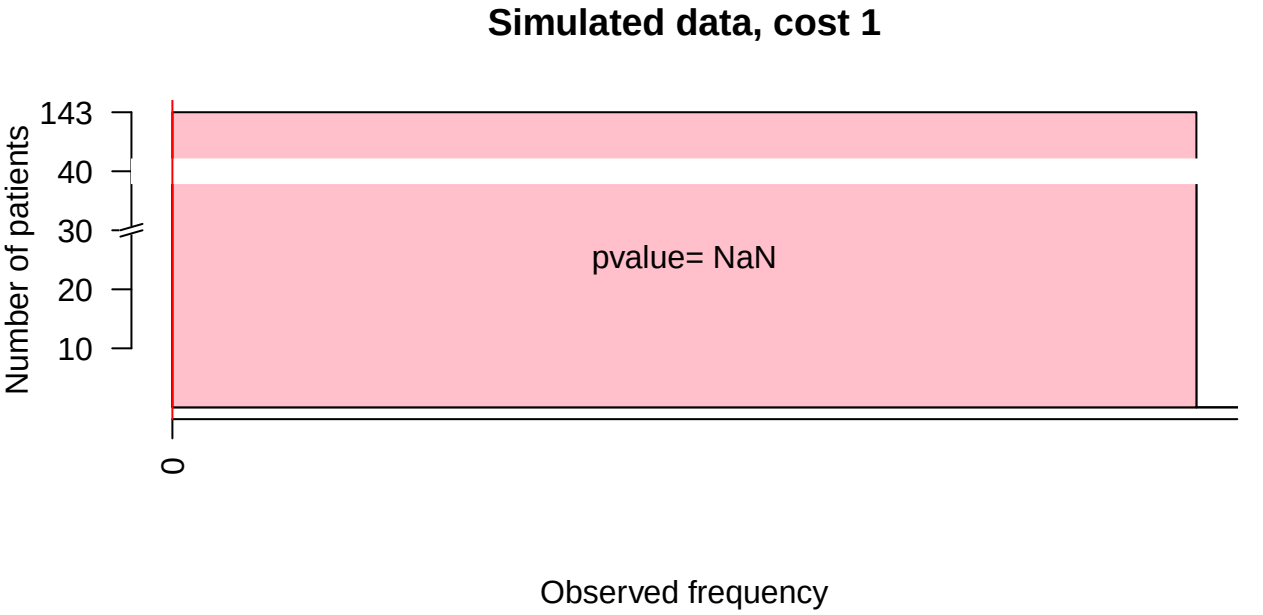

Single−SFS, site 200
Number of patients
152
40
30
20
10
0
0.02
0.04
0.06
Observed frequency

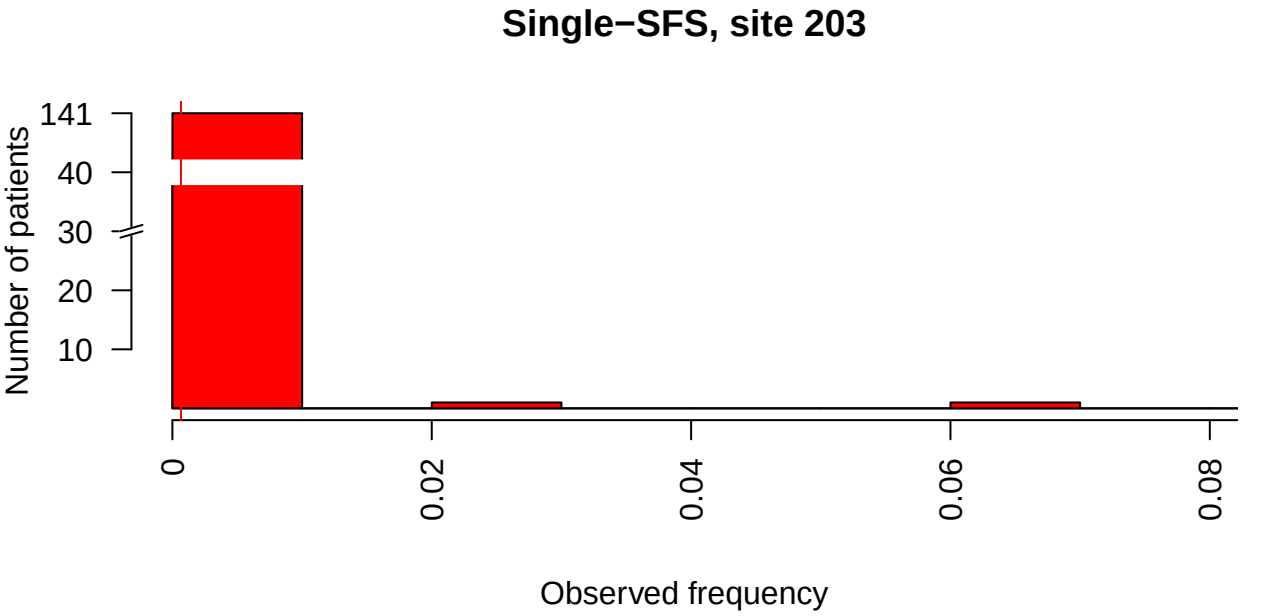

Simulated data, cost 0.4192
Number of patients
152
40
30
20
10
pvalue= 1
0
0.02
0.04
0.06
Observed frequency

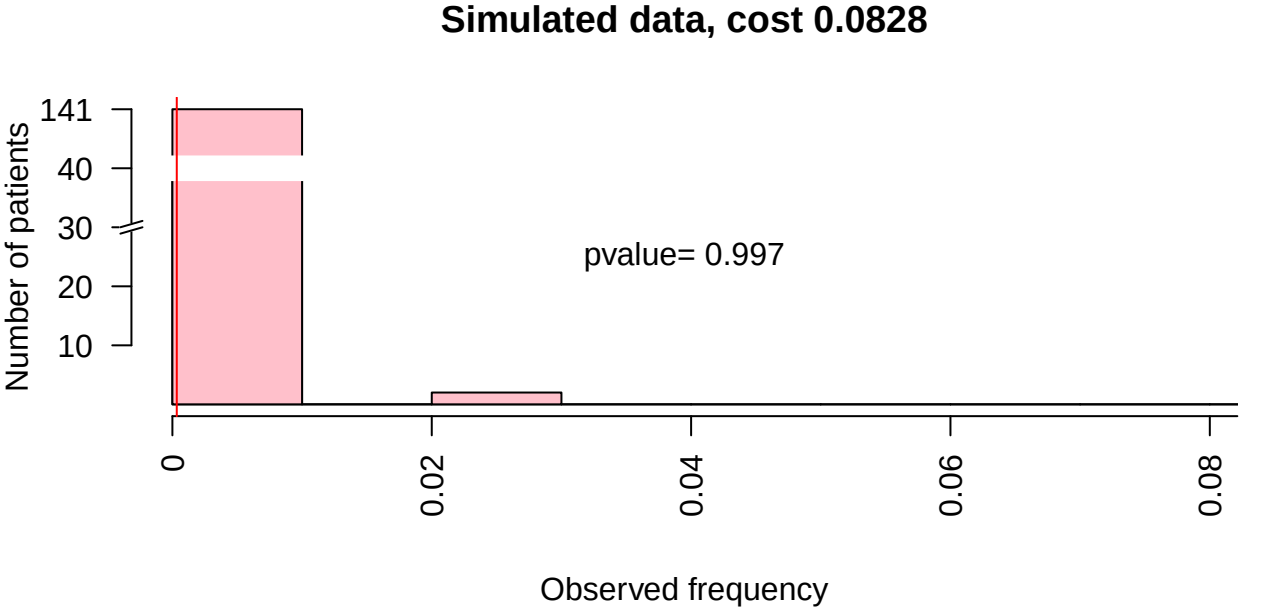

Single−SFS, site 201
Number of patients
125
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
Observed frequency

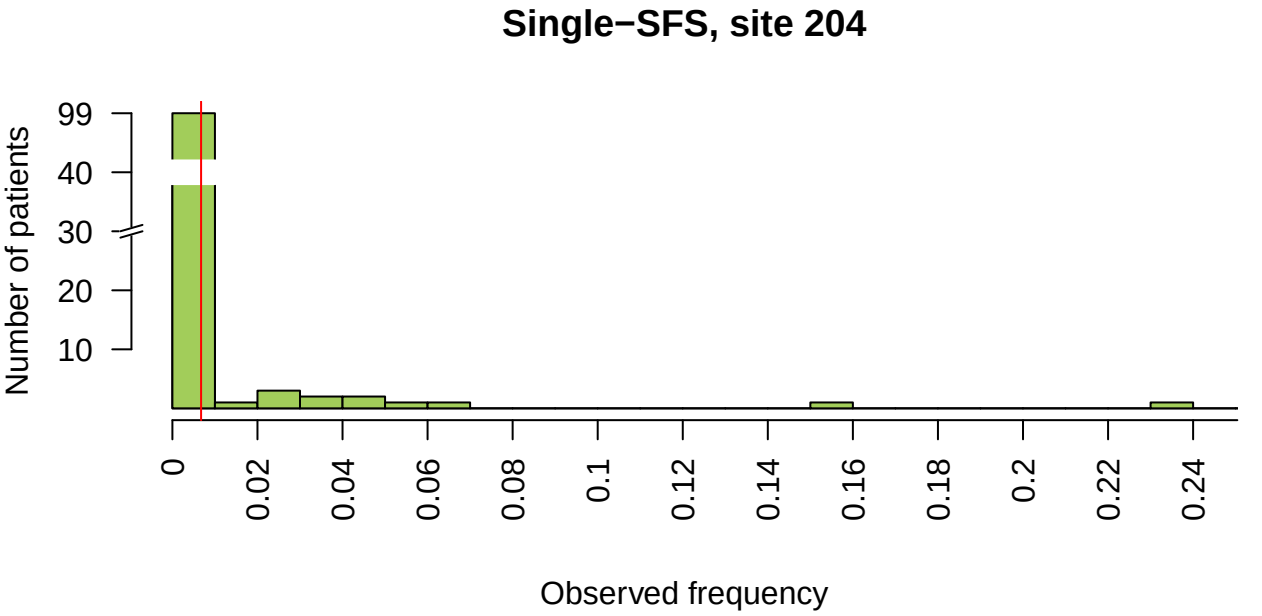

Simulated data, cost 0.0025
Number of patients
125
40
30
20
10
pvalue= 0.999
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
Observed frequency

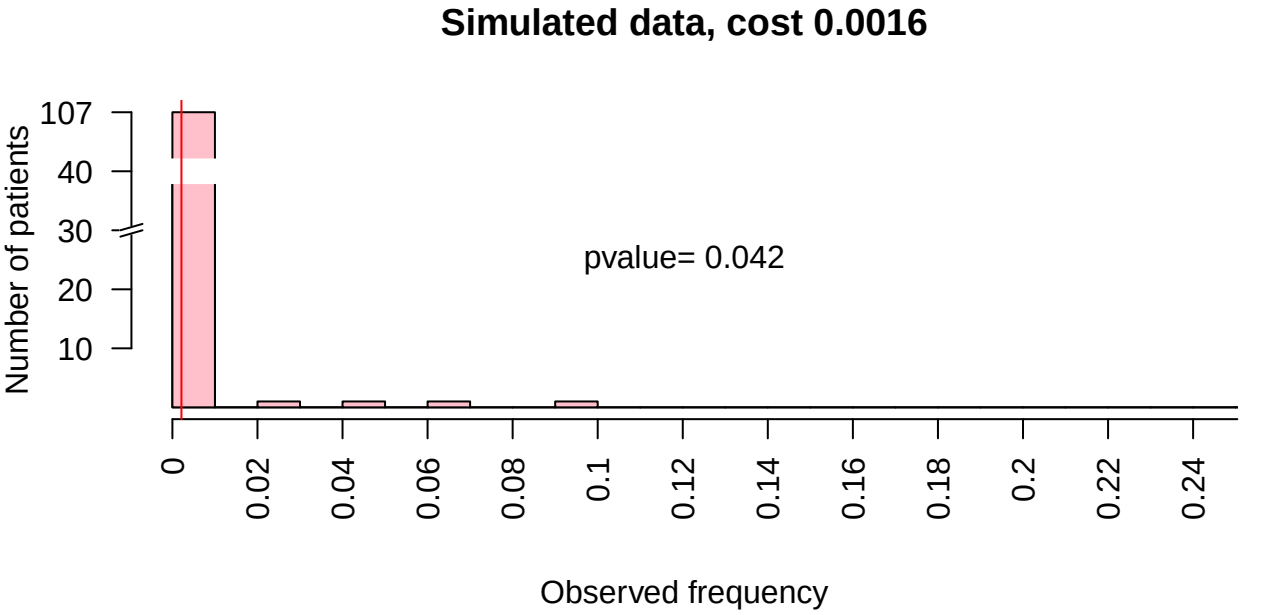

Single−SFS, site 202
Number of patients
143
40
30
20
10
0
Observed frequency

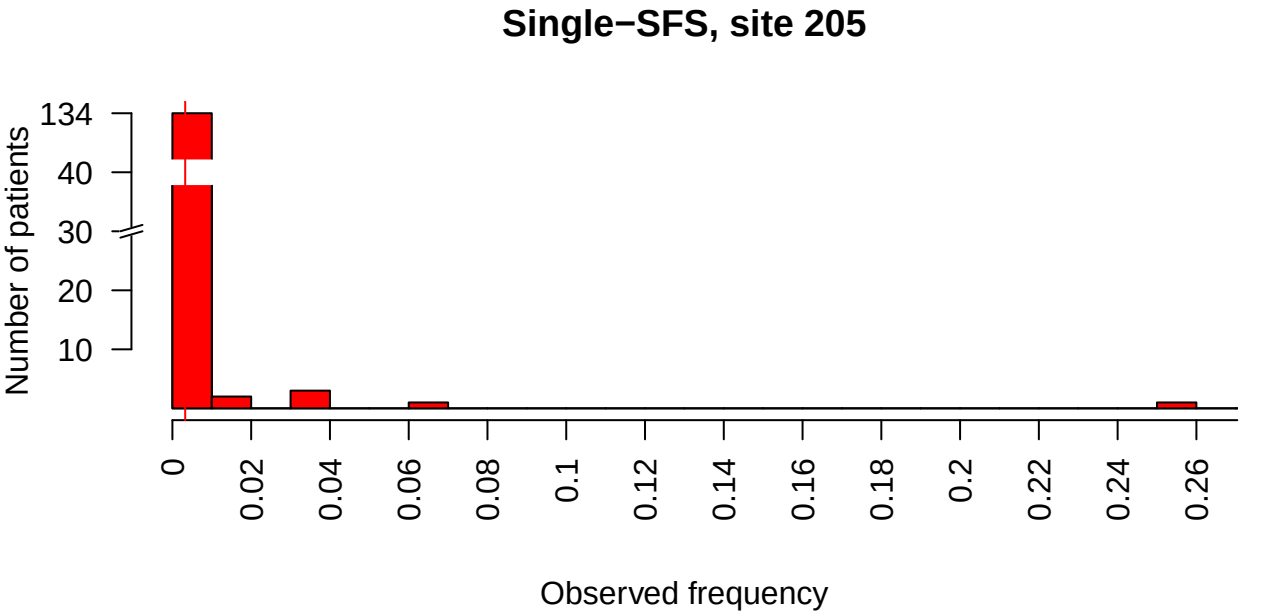

Simulated data, cost 1
Number of patients
143
40
30
20
10
0
pvalue= NaN
Observed frequency

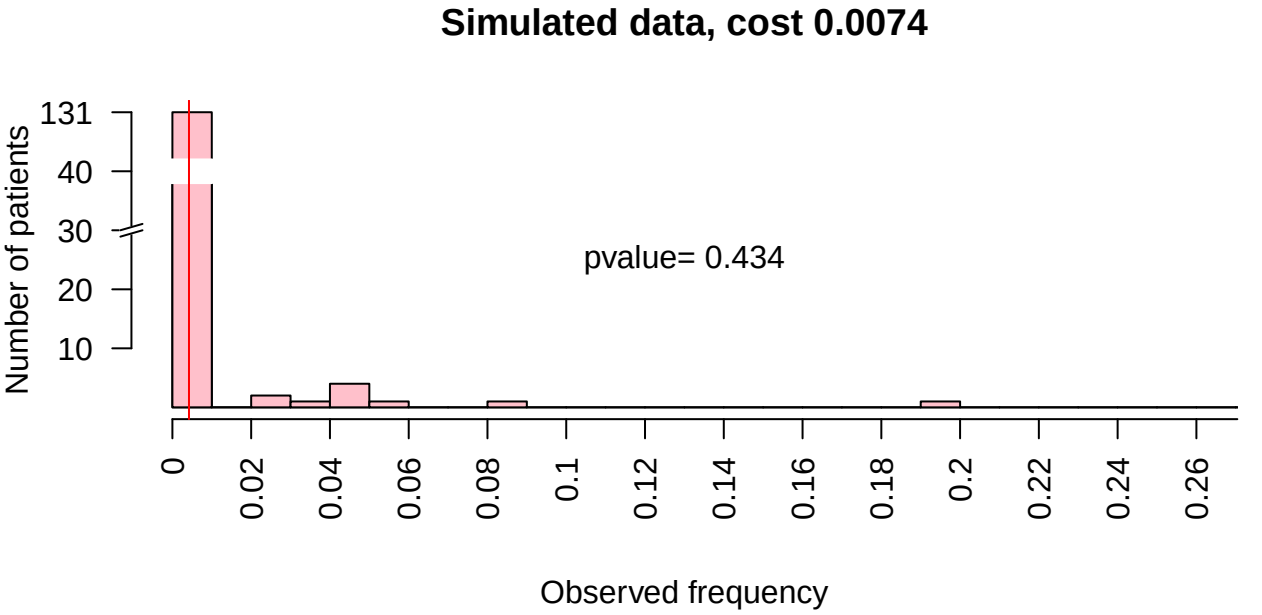

Single−SFS, site 203
Number of patients
141
40
30
20
10
0
0.02
0.04
0.06
0.08
Observed frequency

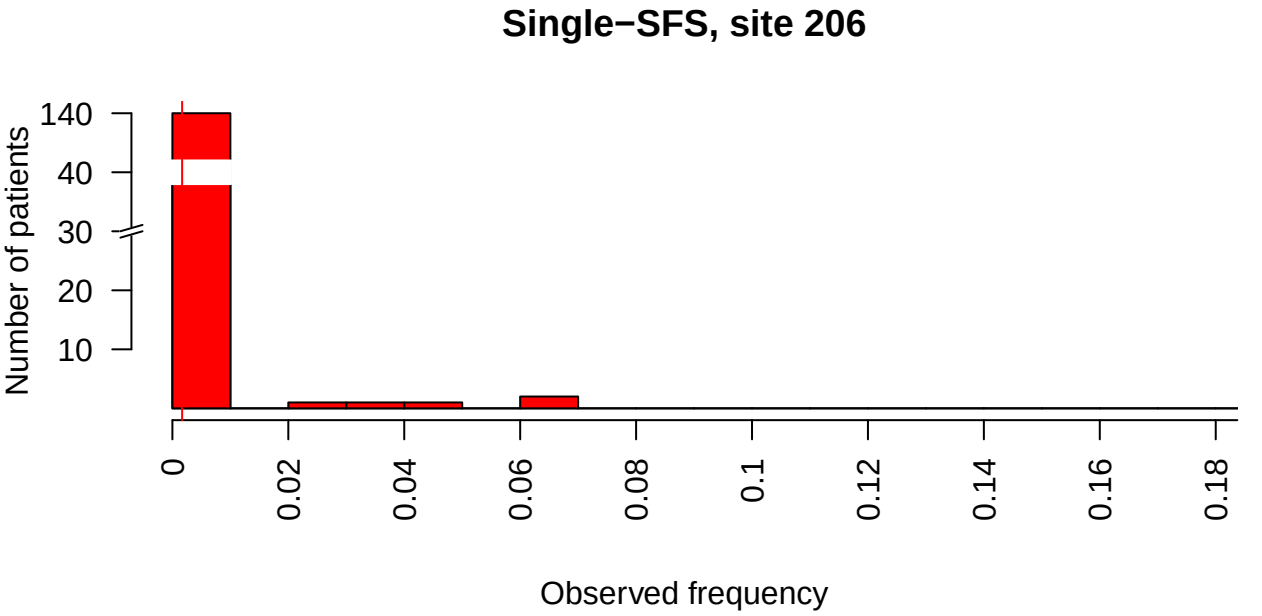

Simulated data, cost 0.0828
Number of patients
141
40
30
20
10
pvalue= 0.997
0
0.02
0.04
0.06
0.08
Observed frequency

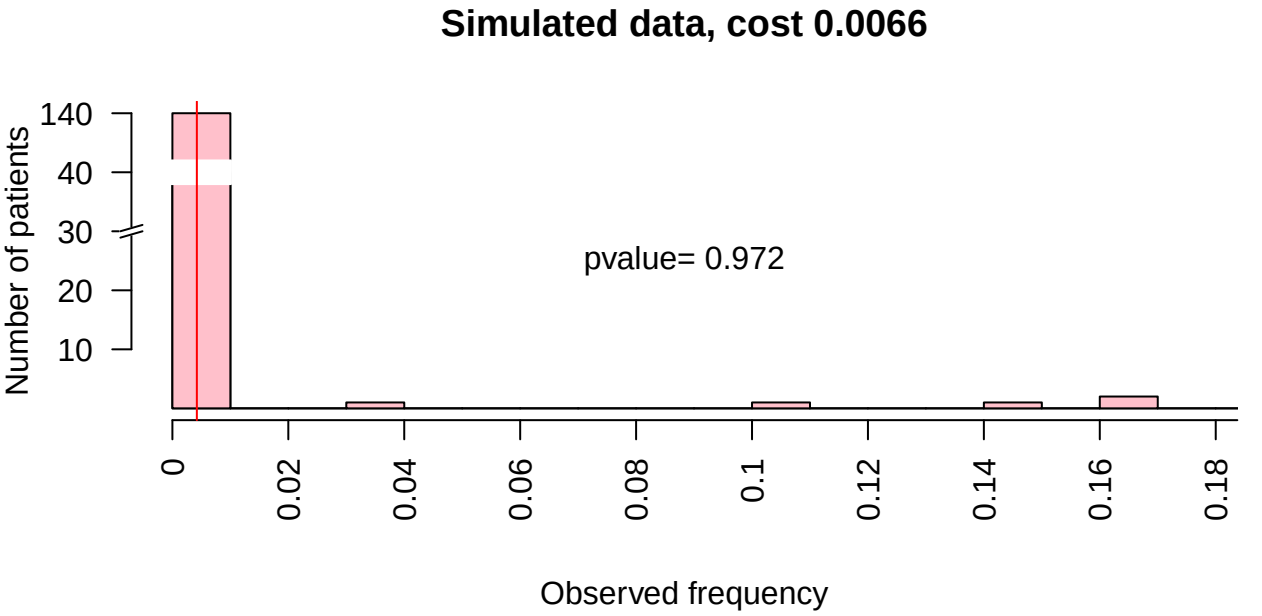

Single−SFS, site 204
Number of patients
99
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
0.24
Observed frequency

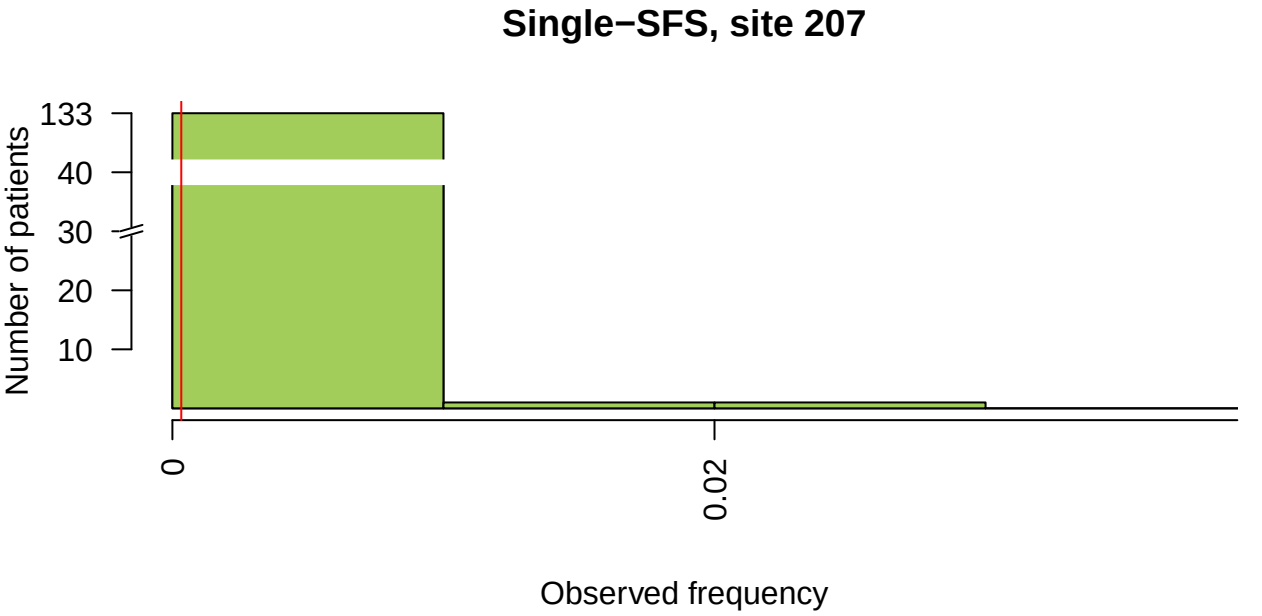

Simulated data, cost 0.0016
Number of patients
107
40
30
20
10
pvalue= 0.042
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
0.24
Observed frequency

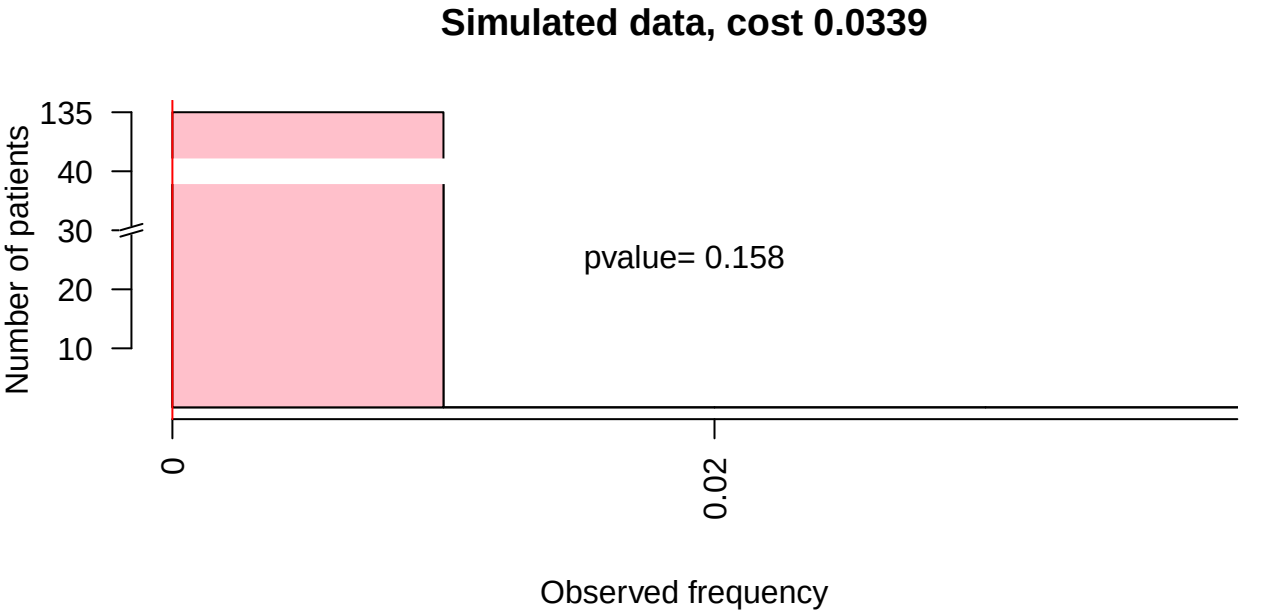

Single−SFS, site 205
Number of patients
134
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
0.24
0.26
Observed frequency

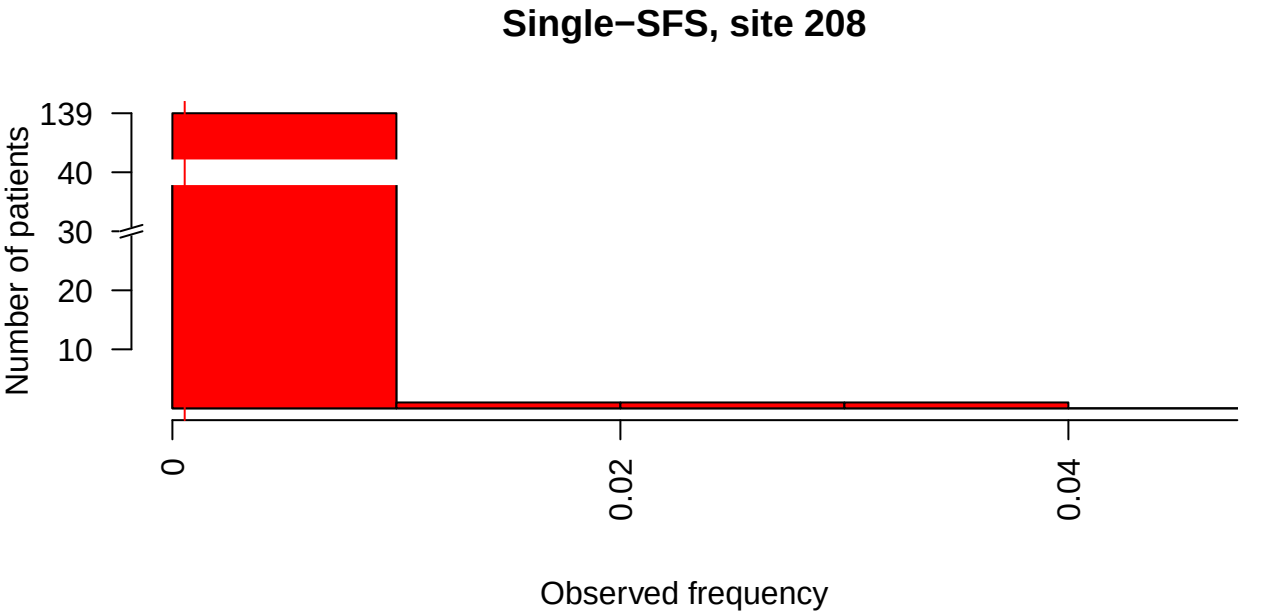

Simulated data, cost 0.0074
Number of patients
131
40
30
20
10
pvalue= 0.434
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
0.24
0.26
Observed frequency

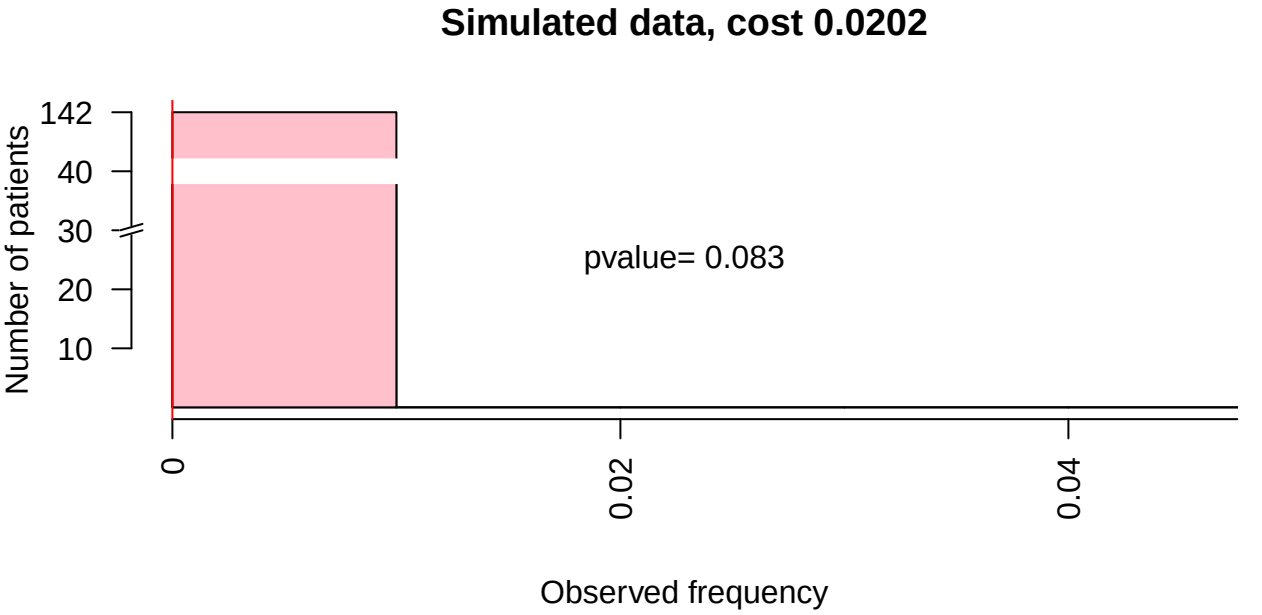

Single−SFS, site 206
Number of patients
140
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
Observed frequency

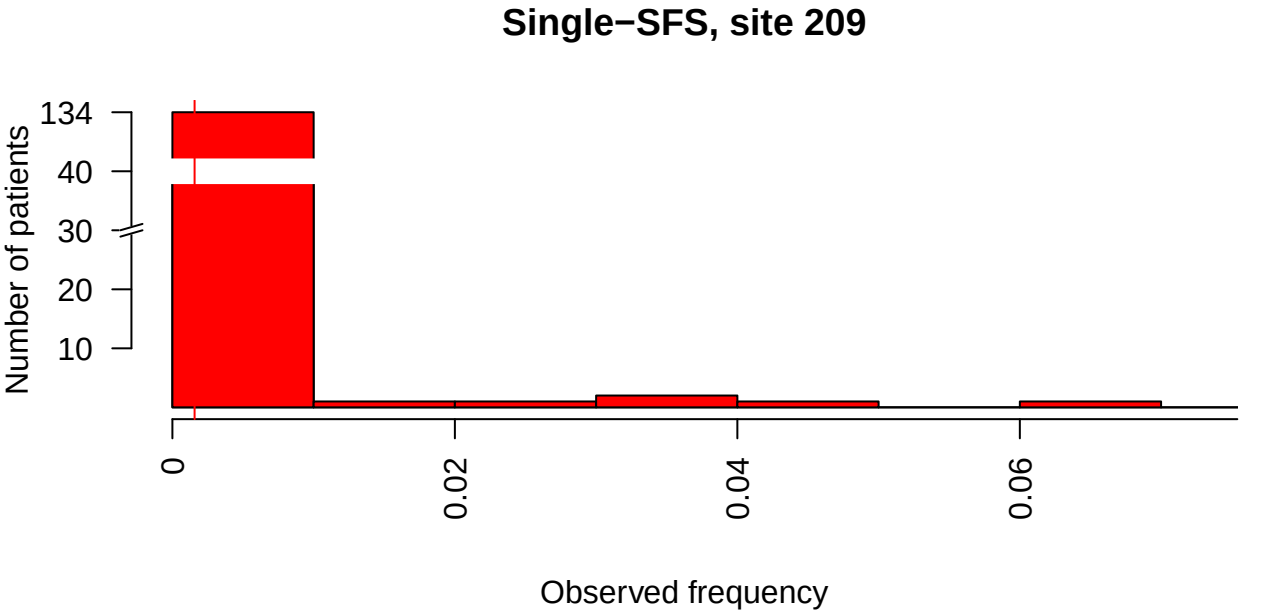

Simulated data, cost 0.0066
Number of patients
140
40
30
20
10
pvalue= 0.972
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
Observed frequency

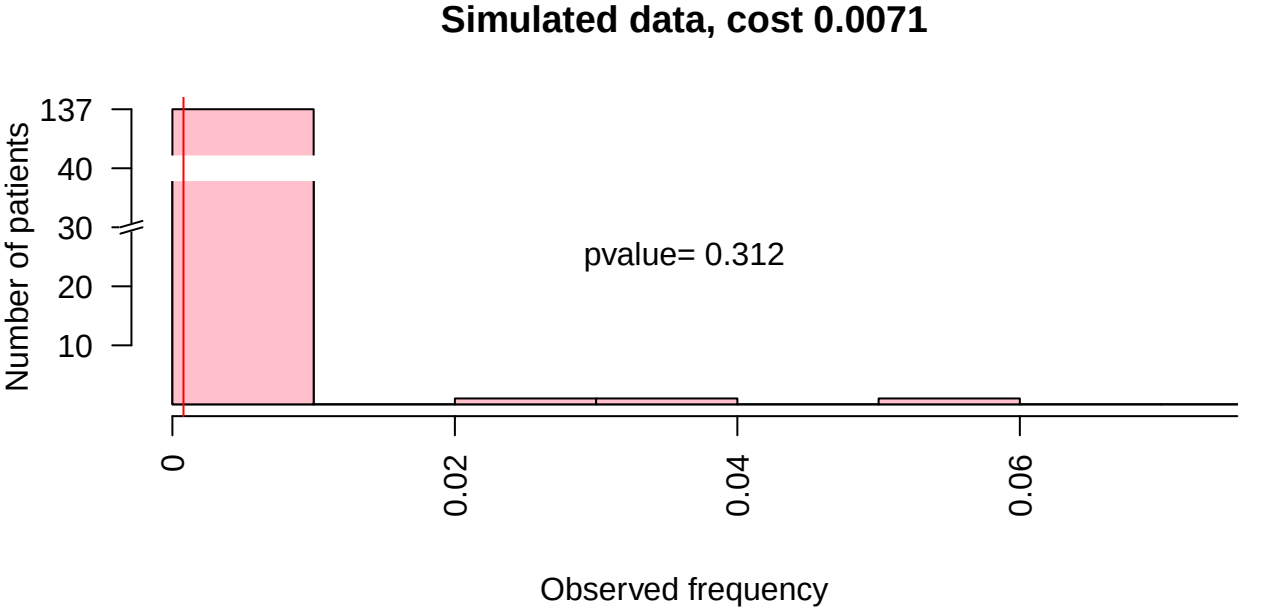

Single−SFS, site 207
Number of patients
133
40
30
20
10
0
0.02
Observed frequency

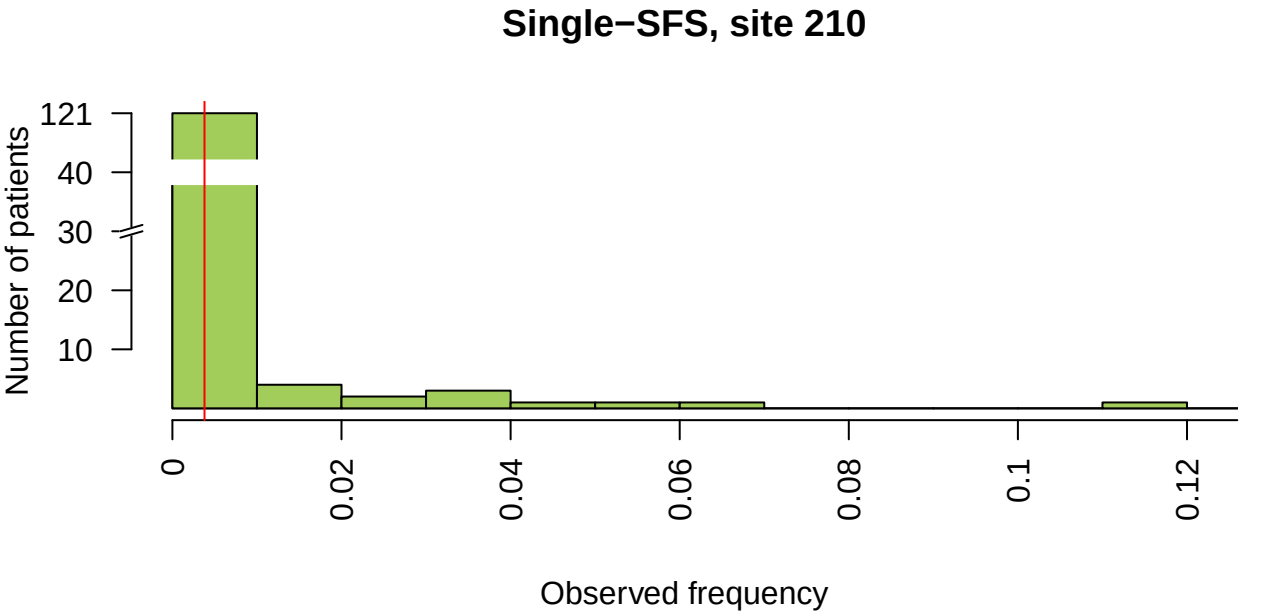

Simulated data, cost 0.0339
Number of patients
135
40
30
20
10
pvalue= 0.158
0
0.02
Observed frequency

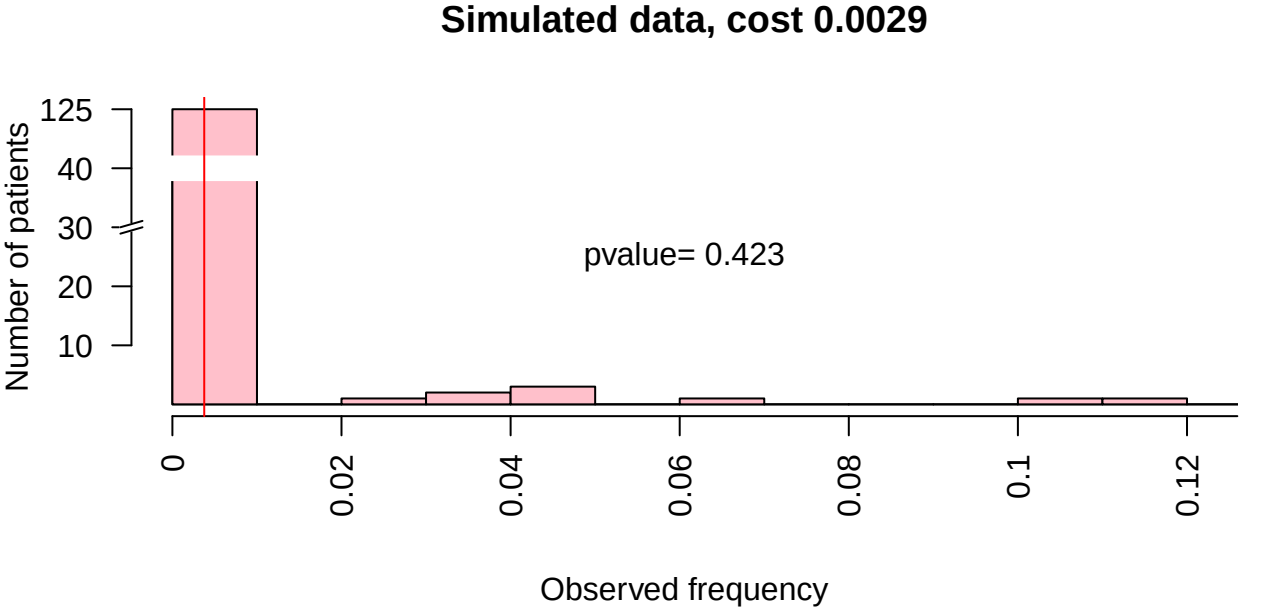

Single−SFS, site 208
Number of patients
139
40
30
20
10
0
0.02
0.04
Observed frequency

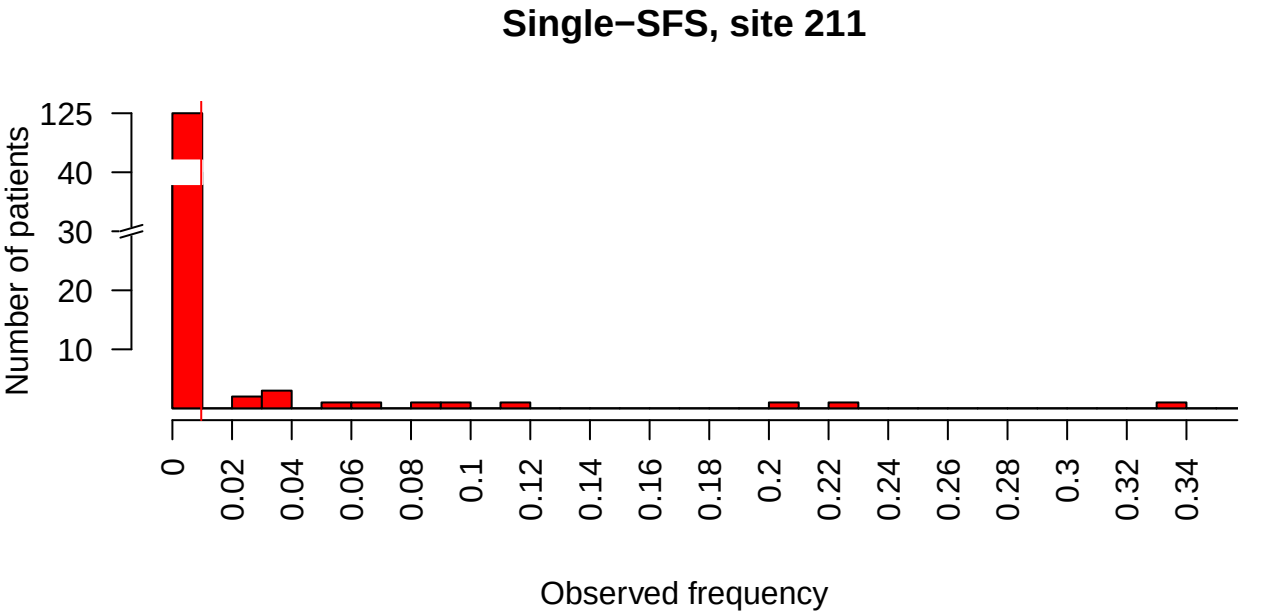

Simulated data, cost 0.0202
Number of patients
142
40
30
20
10
pvalue= 0.083
0
0.02
0.04
Observed frequency

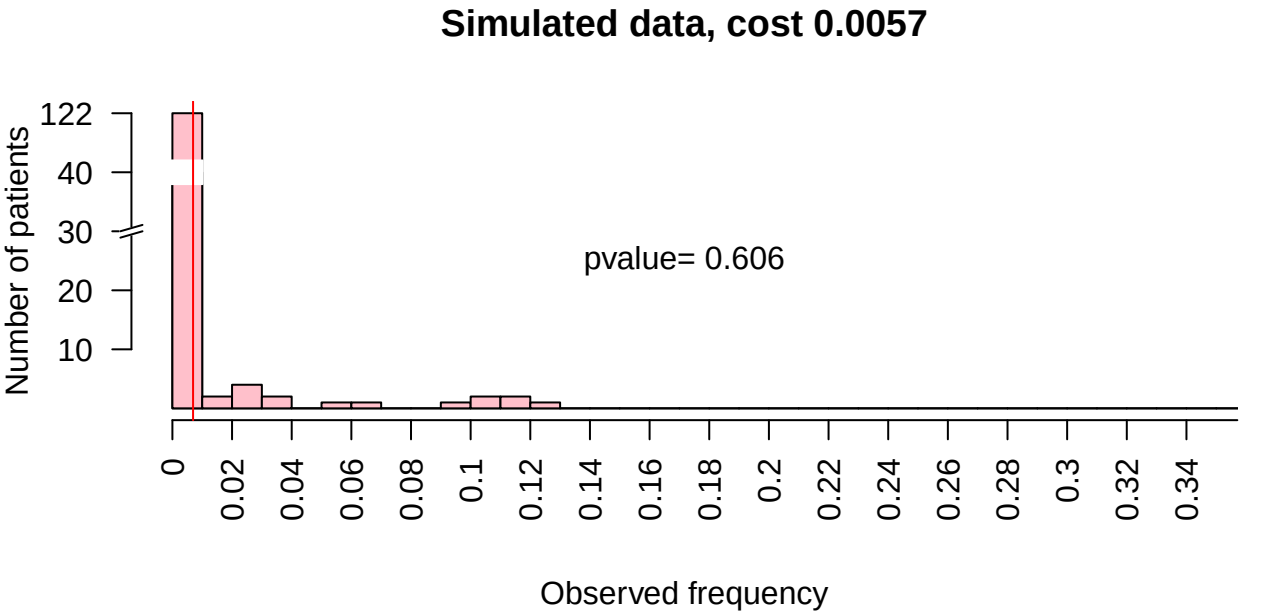

Single−SFS, site 209
Number of patients
134
40
30
20
10
0
0.02
0.04
0.06
Observed frequency

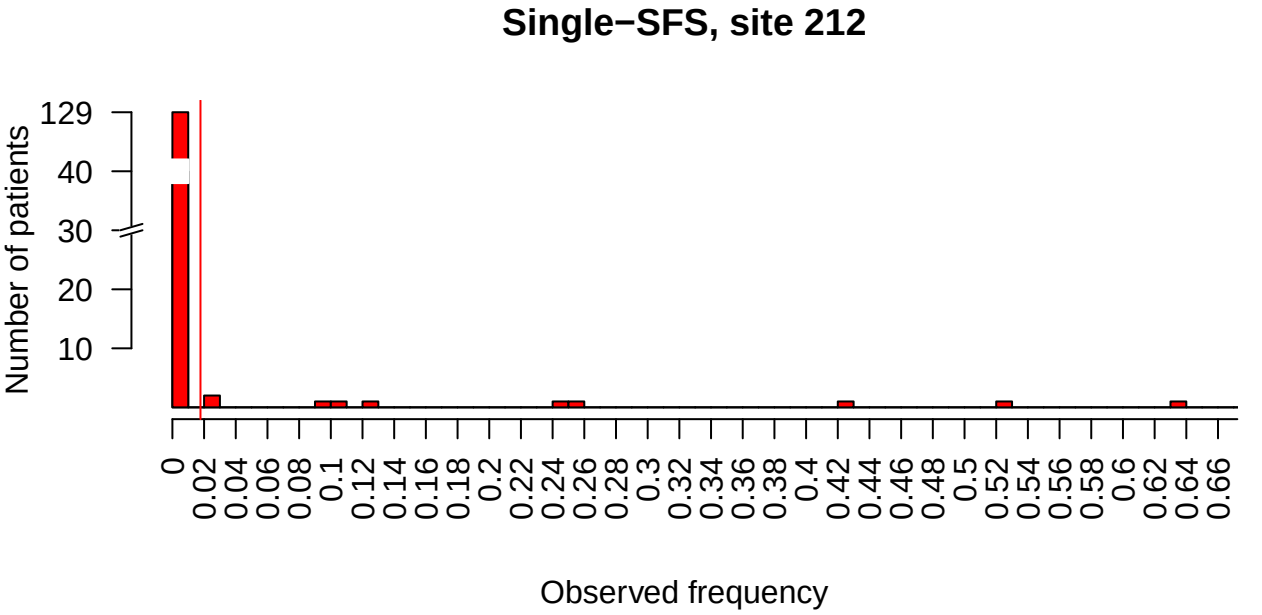

Simulated data, cost 0.0071
Number of patients
137
40
30
20
10
pvalue= 0.312
0
0.02
0.04
0.06
Observed frequency

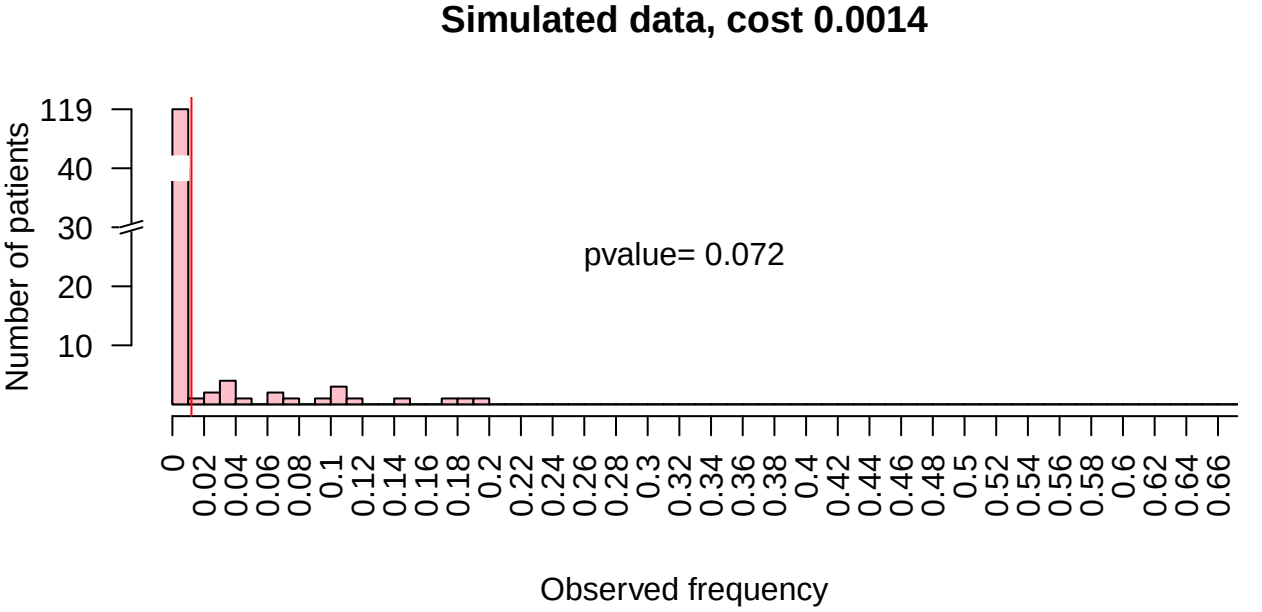

Single−SFS, site 210
Number of patients
121
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
Observed frequency

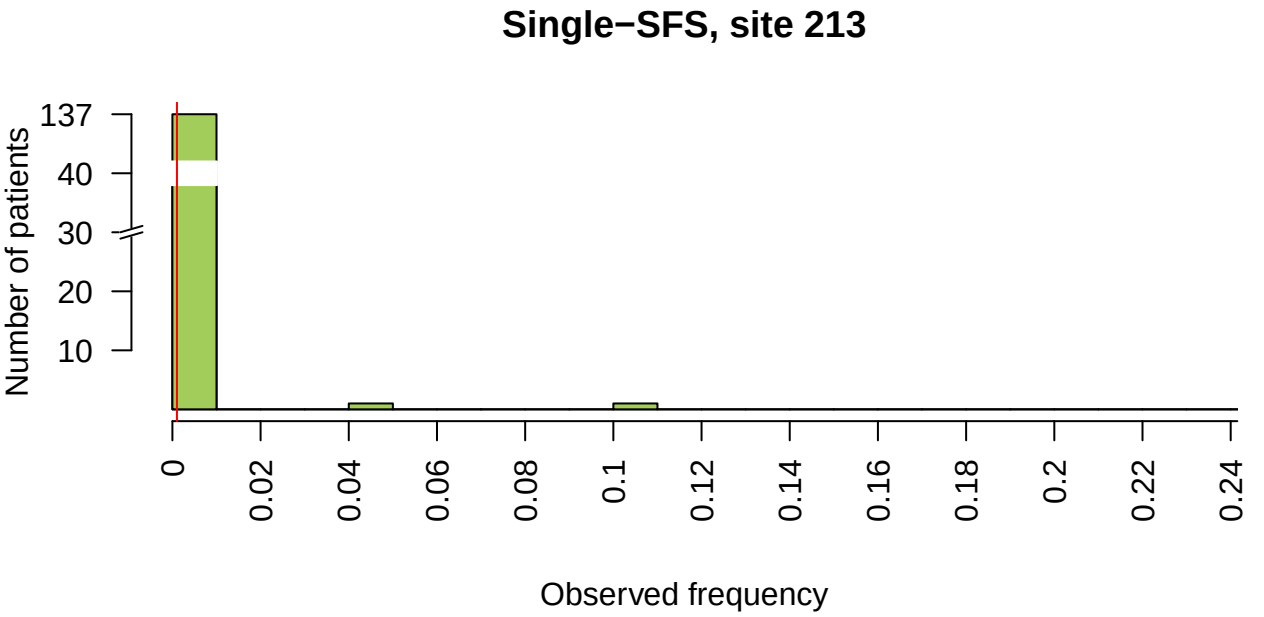

Simulated data, cost 0.0029
Number of patients
125
40
30
20
10
pvalue= 0.423
0
0.02
0.04
0.06
0.08
0.1
0.12
Observed frequency

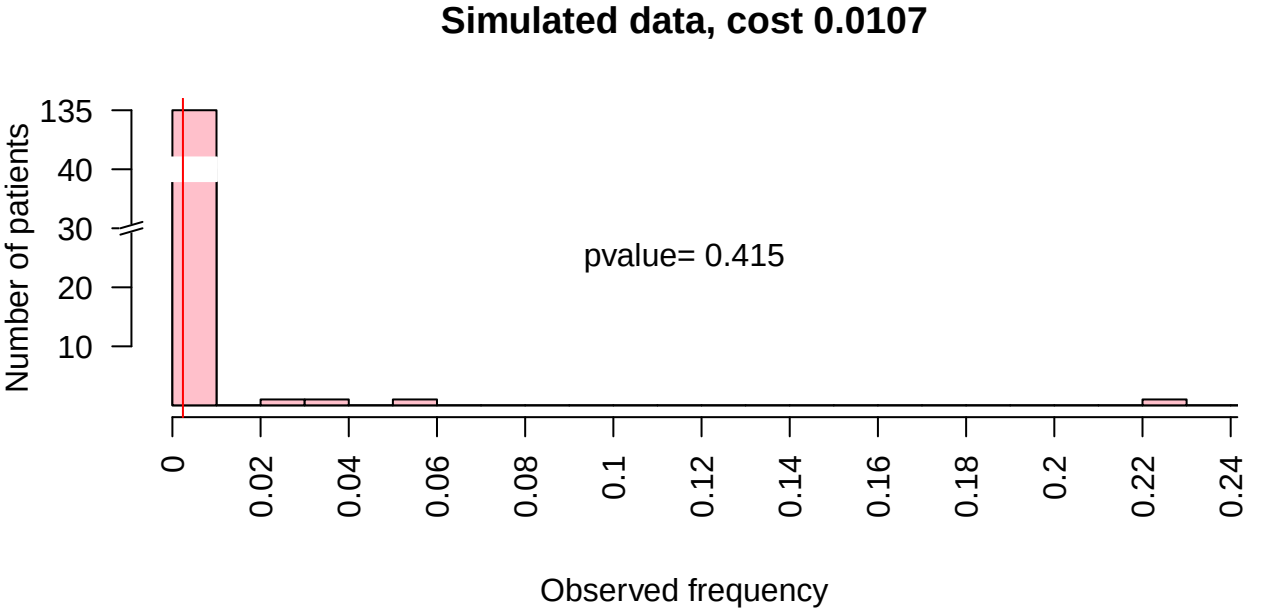

Single−SFS, site 211
Number of patients
125
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
0.24
0.26
0.28
0.3
0.32
0.34
Observed frequency

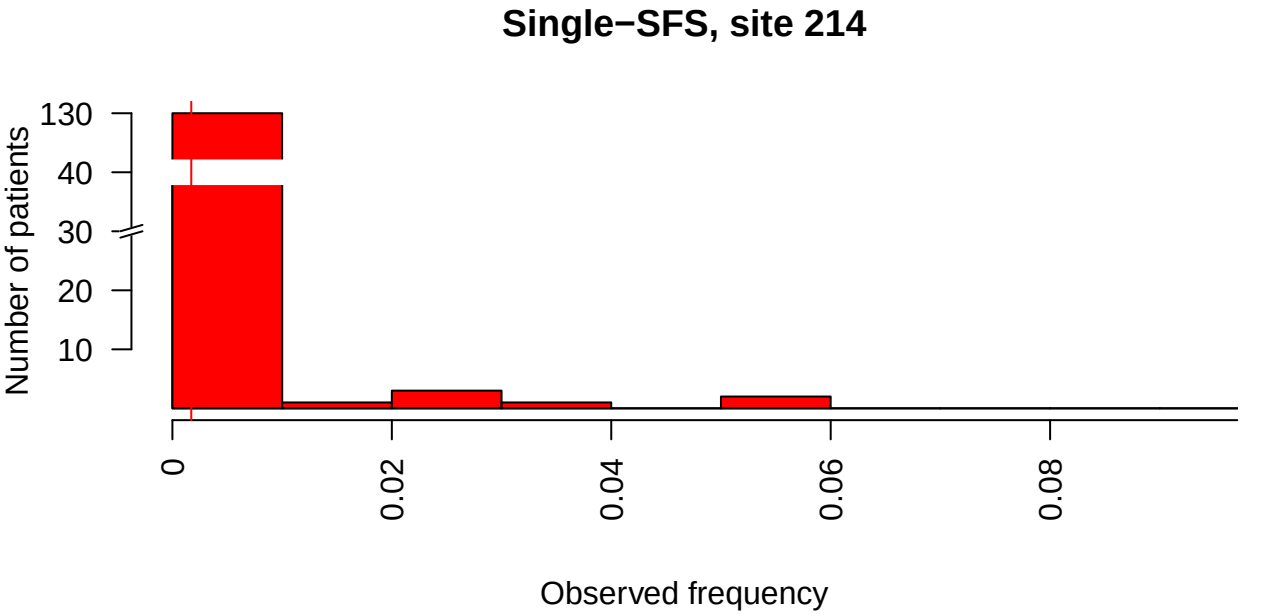

Simulated data, cost 0.0057
Number of patients
122
40
30
20
10
pvalue= 0.606
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
0.24
0.26
0.28
0.3
0.32
0.34
Observed frequency

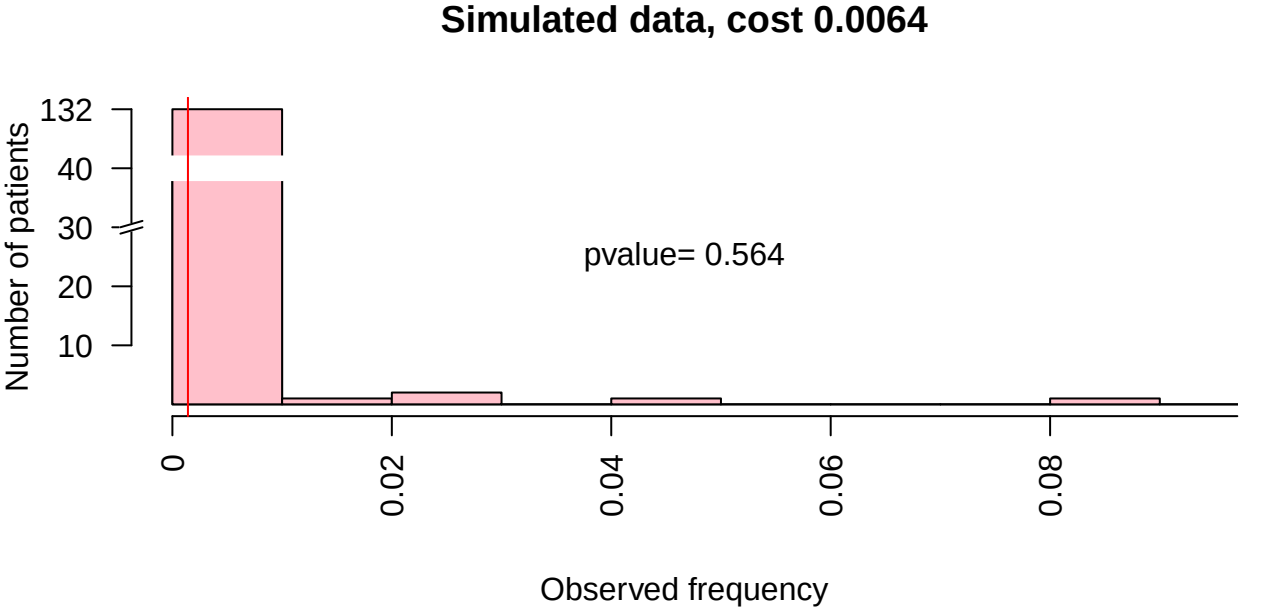

Single−SFS, site 212
Number of patients
129
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
0.24
0.26
0.28
0.3
0.32
0.34
0.36
0.38
0.4
0.42
0.44
0.46
0.48
0.5
0.52
0.54
0.56
0.58
0.6
0.62
0.64
0.66
Observed frequency

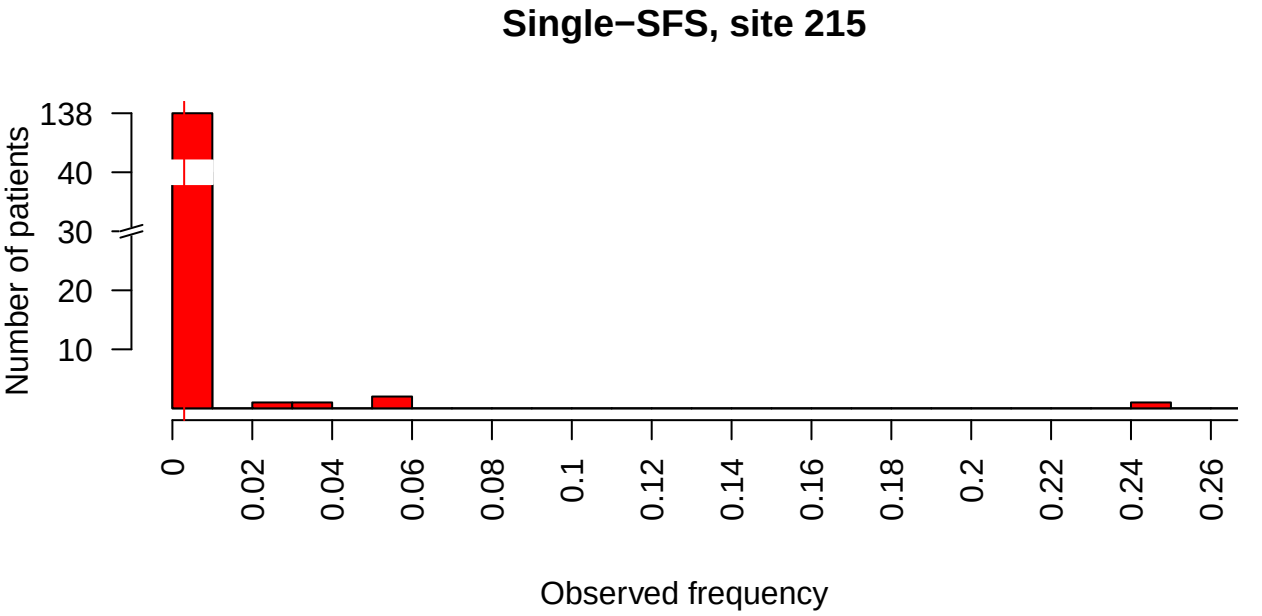

Simulated data, cost 0.0014
Number of patients
119
40
30
20
10
pvalue= 0.072
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
0.24
0.26
0.28
0.3
0.32
0.34
0.36
0.38
0.4
0.42
0.44
0.46
0.48
0.5
0.52
0.54
0.56
0.58
0.6
0.62
0.64
0.66
Observed frequency

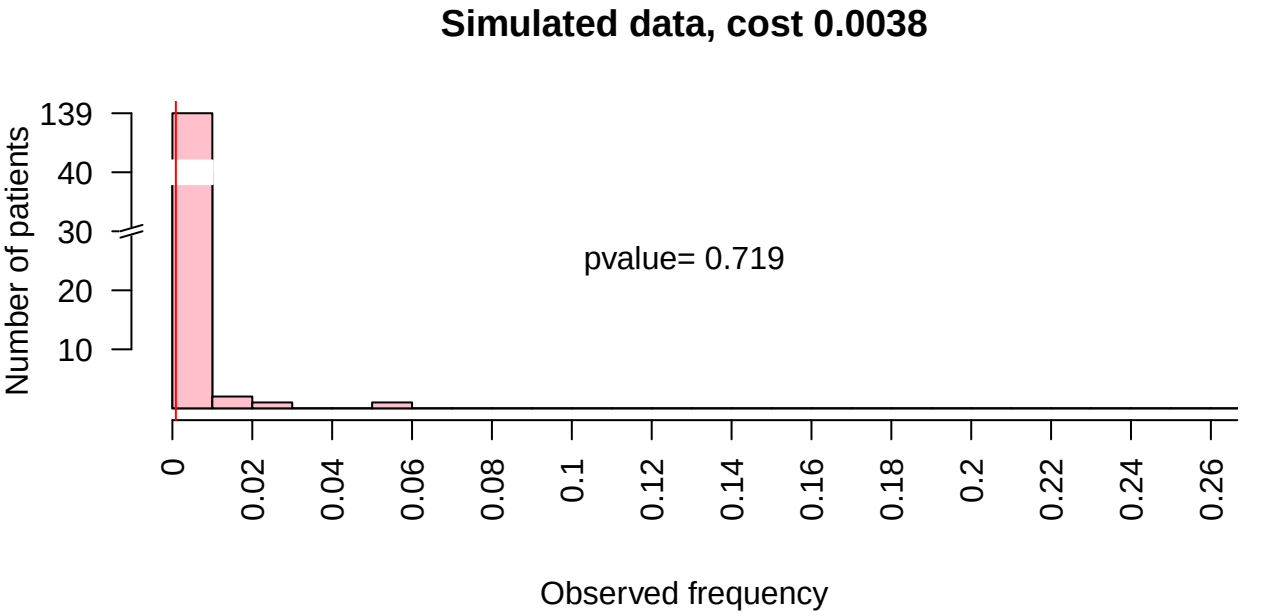

Single−SFS, site 213
Number of patients
137
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
0.24
Observed frequency

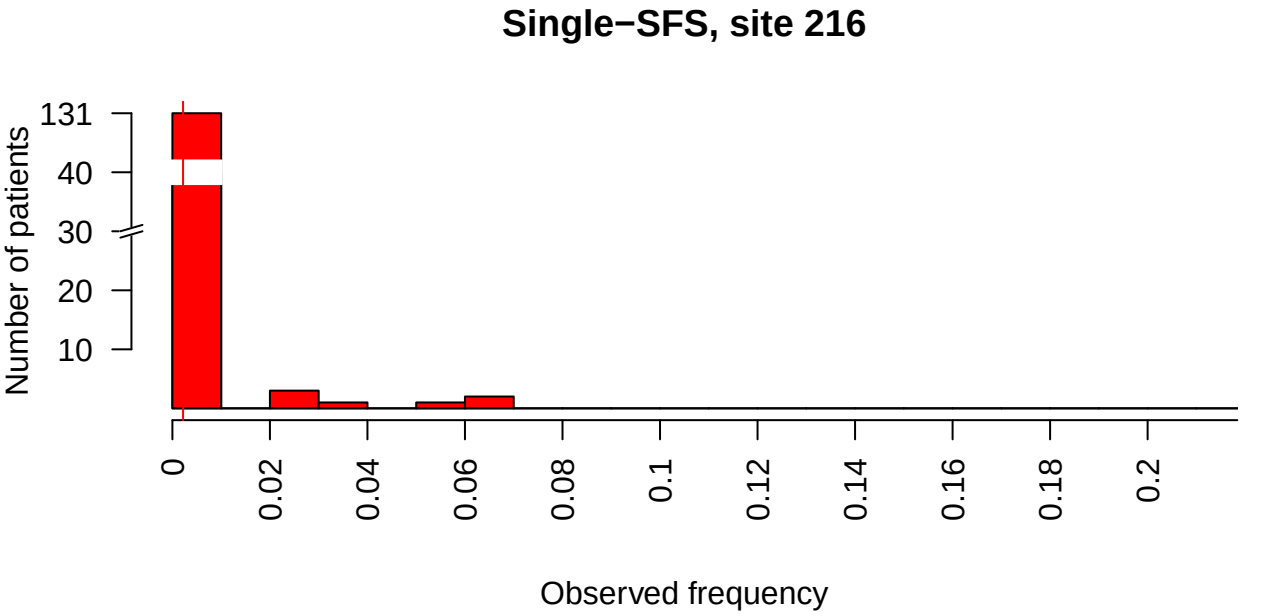

Simulated data, cost 0.0107
Number of patients
135
40
30
20
10
pvalue= 0.415
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
0.24
Observed frequency

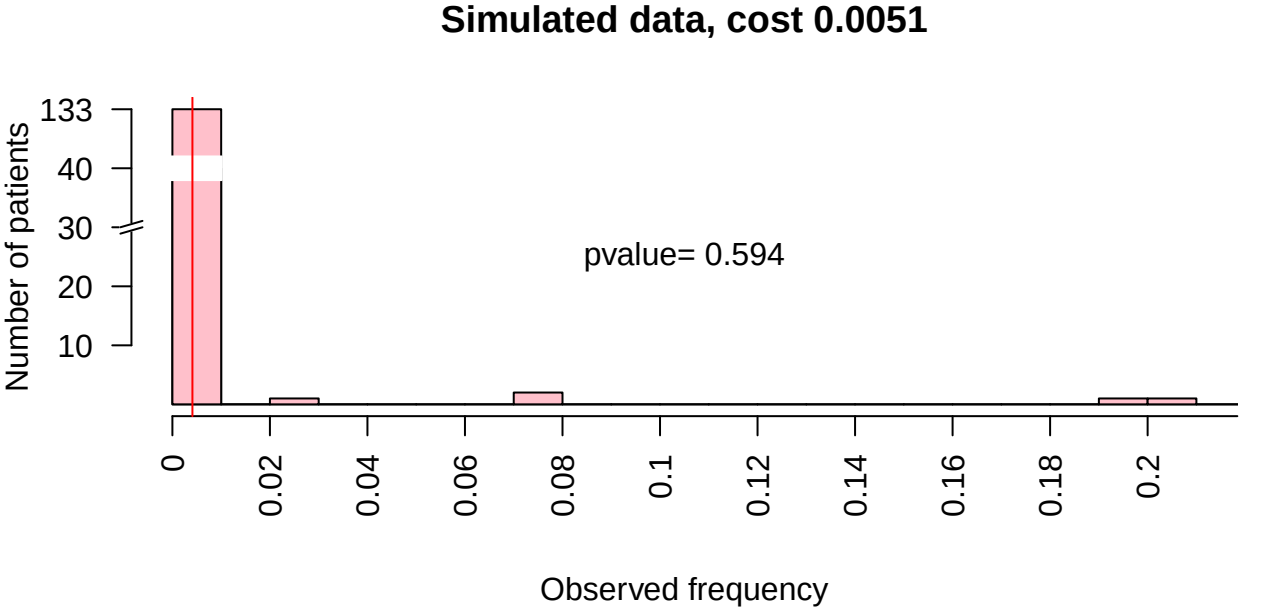

Single−SFS, site 214
Number of patients
130
40
30
20
10
0
0.02
0.04
0.06
0.08
Observed frequency

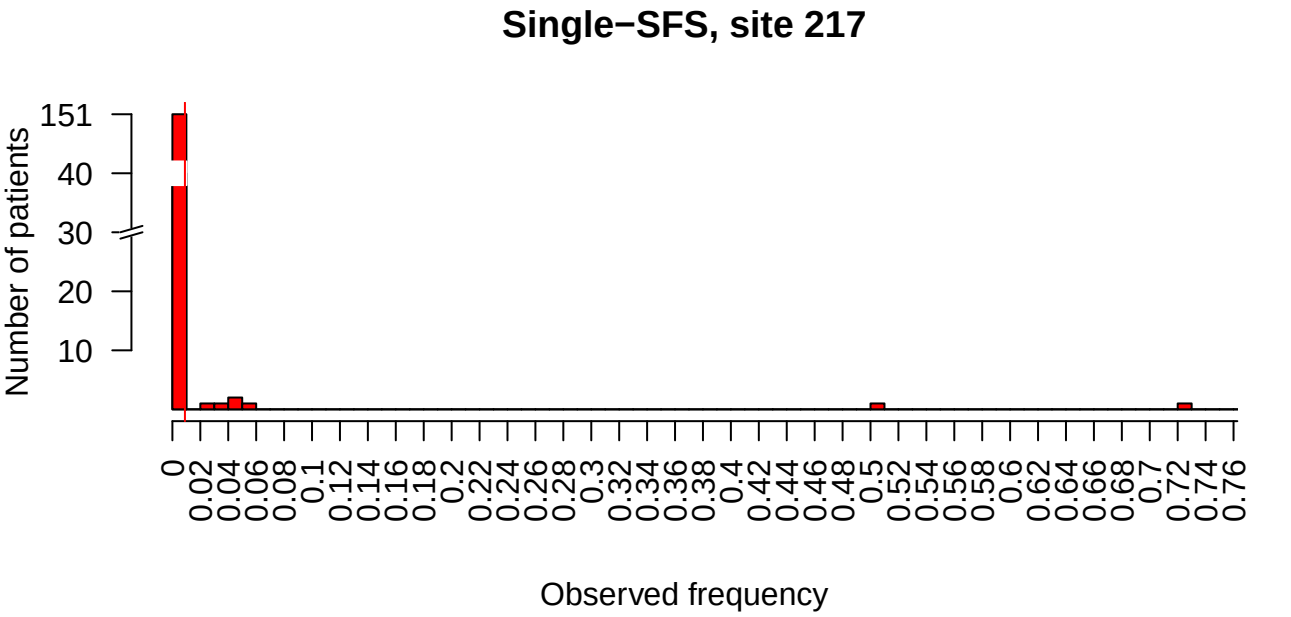

Simulated data, cost 0.0064
Number of patients
132
40
30
20
10
pvalue= 0.564
0
0.02
0.04
0.06
0.08
Observed frequency

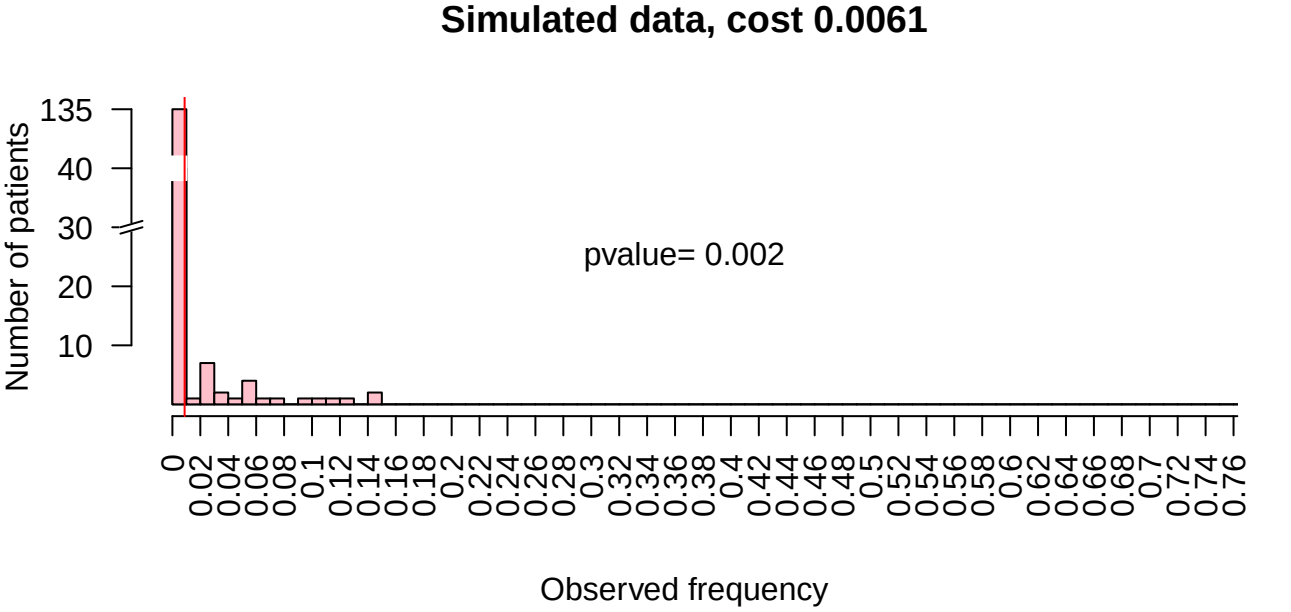

Single−SFS, site 215
Number of patients
138
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
0.24
0.26
Observed frequency

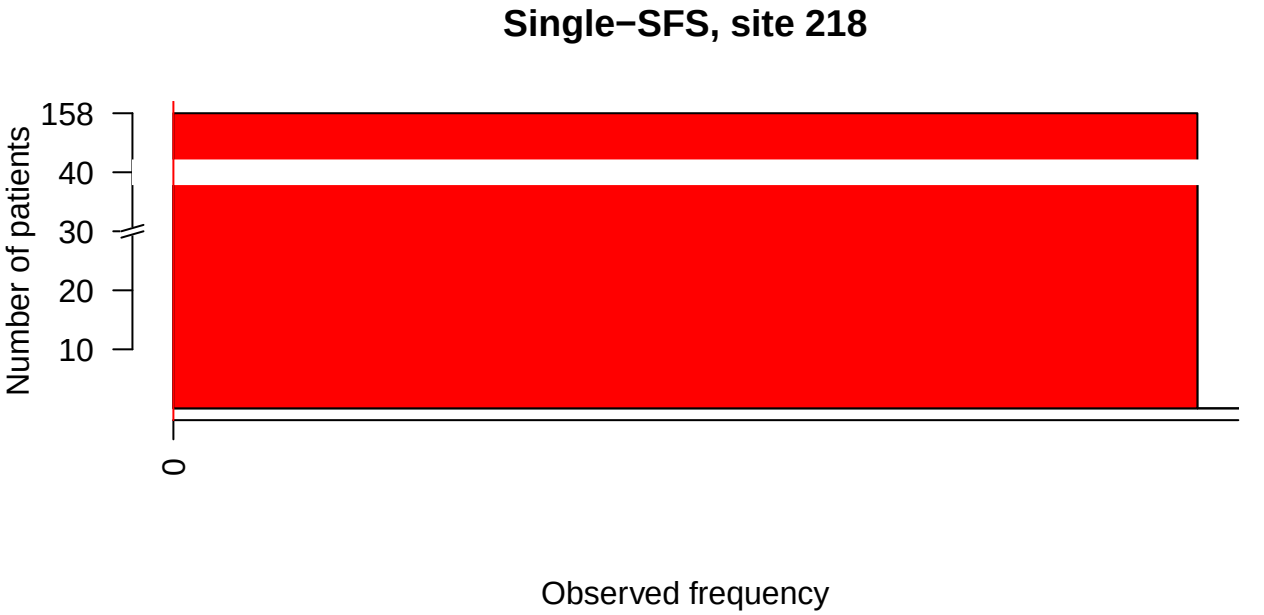

Simulated data, cost 0.0038
Number of patients
139
40
30
20
10
pvalue= 0.719
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
0.24
0.26
Observed frequency

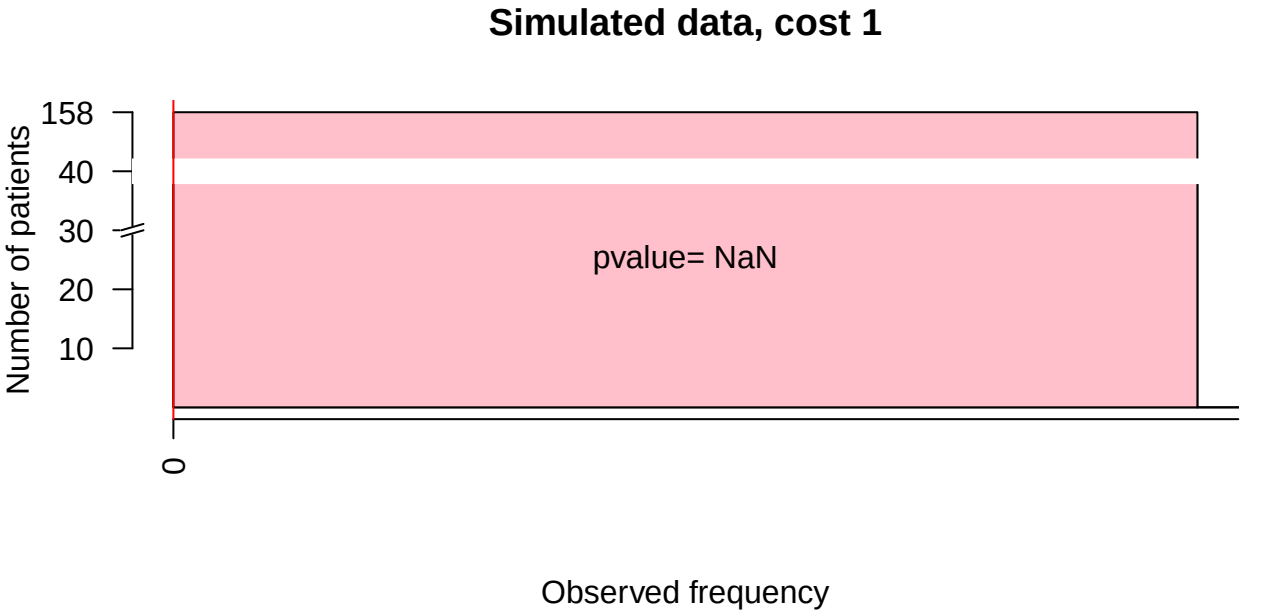

Single−SFS, site 216
Number of patients
131
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
Observed frequency

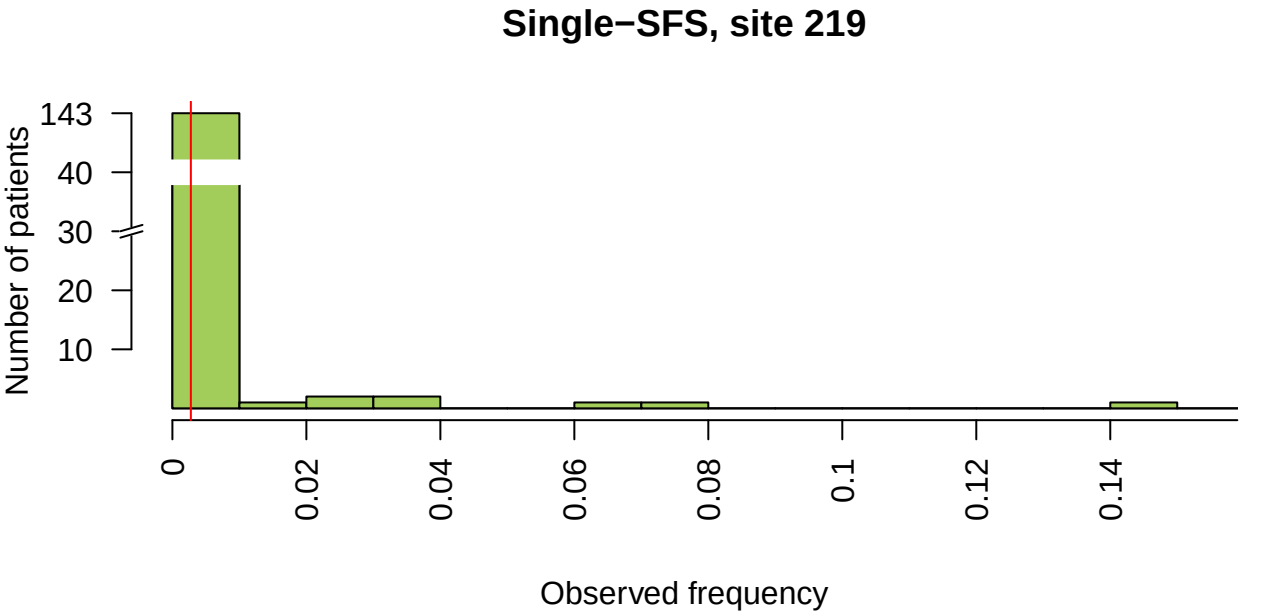

Simulated data, cost 0.0051
Number of patients
133
40
30
20
10
pvalue= 0.594
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
Observed frequency

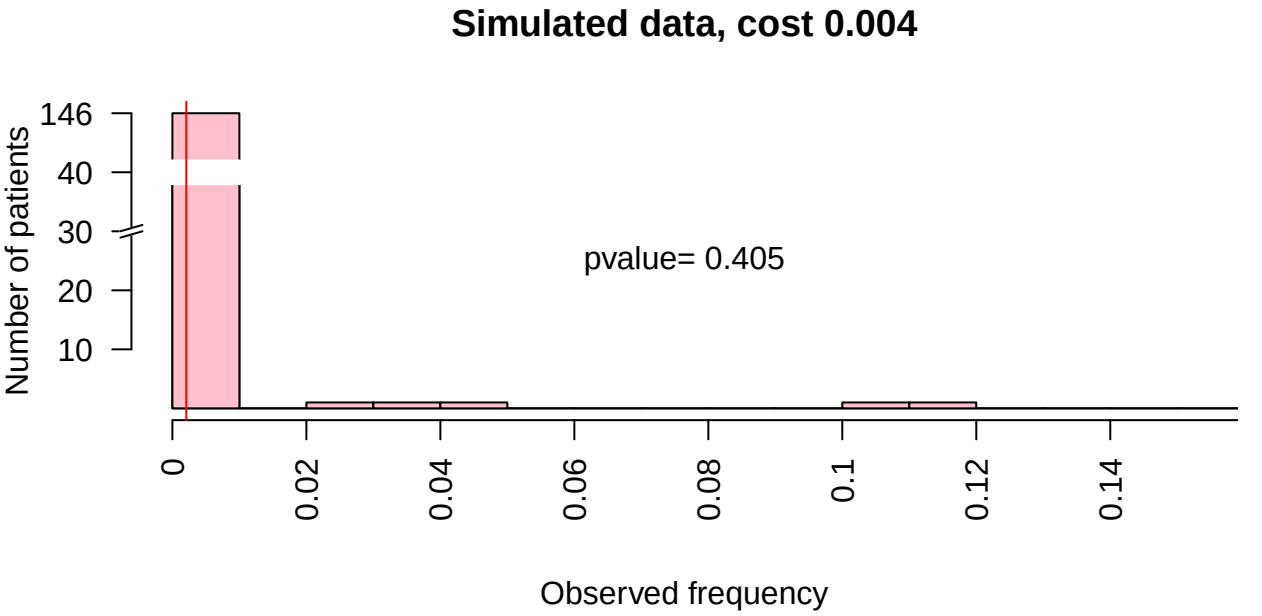

Single−SFS, site 217
Number of patients
151
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
0.24
0.26
0.28
0.3
0.32
0.34
0.36
0.38
0.4
0.42
0.44
0.46
0.48
0.5
0.52
0.54
0.56
0.58
0.6
0.62
0.64
0.66
0.68
0.7
0.72
0.74
0.76
Observed frequency

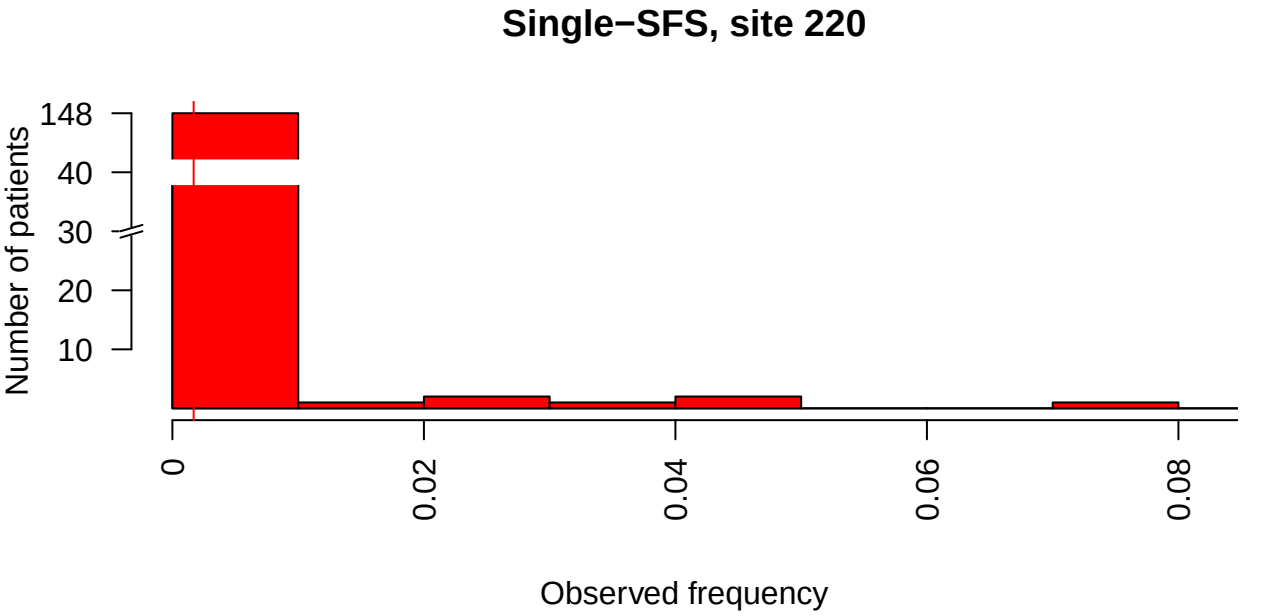

Simulated data, cost 0.0061
Number of patients
135
40
30
20
10
pvalue= 0.002
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
0.24
0.26
0.28
0.3
0.32
0.34
0.36
0.38
0.4
0.42
0.44
0.46
0.48
0.5
0.52
0.54
0.56
0.58
0.6
0.62
0.64
0.66
0.68
0.7
0.72
0.74
0.76
Observed frequency

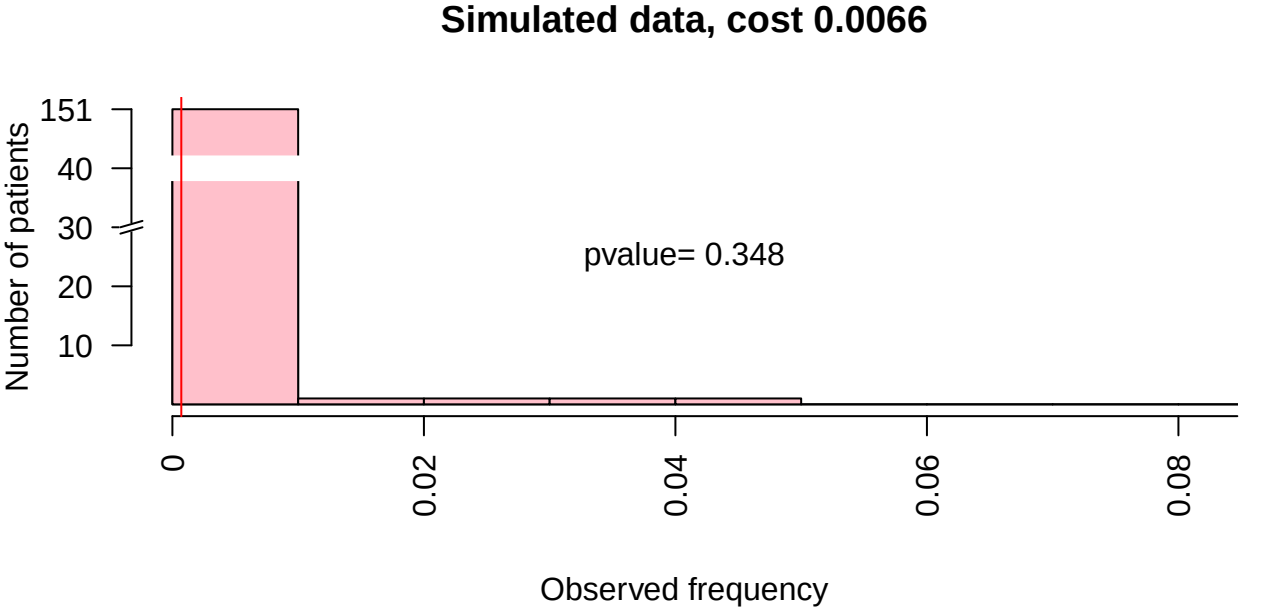

Single−SFS, site 218
Number of patients
158
40
30
20
10
0
Observed frequency

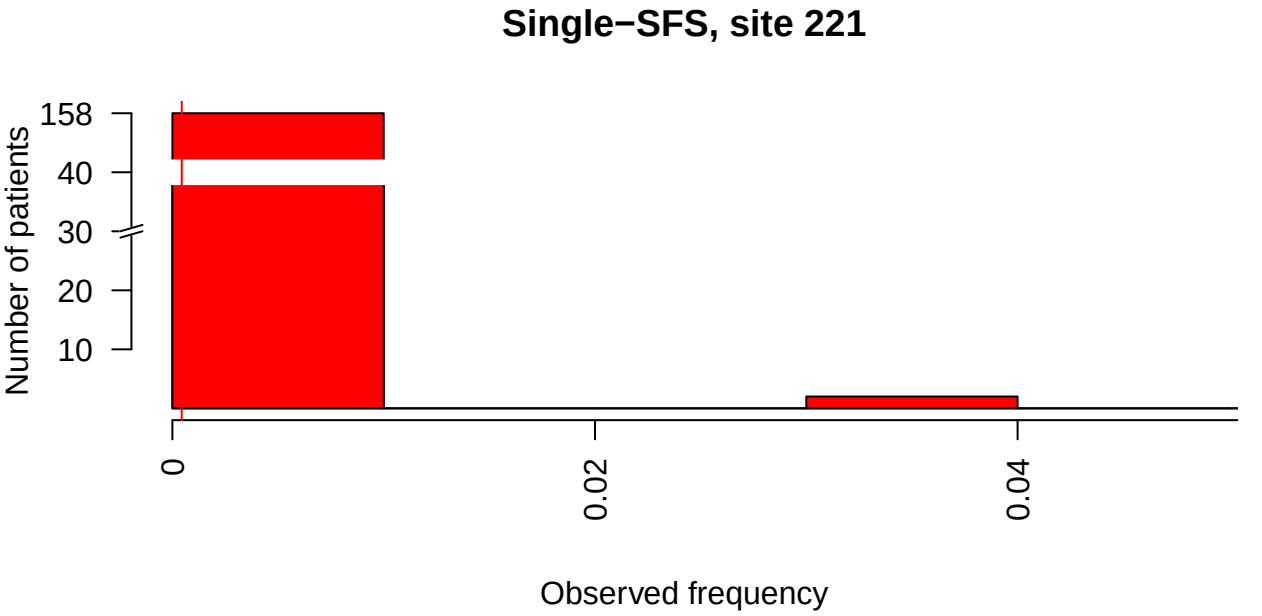

Simulated data, cost 1
Number of patients
158
40
30
20
10
0
pvalue= NaN
Observed frequency

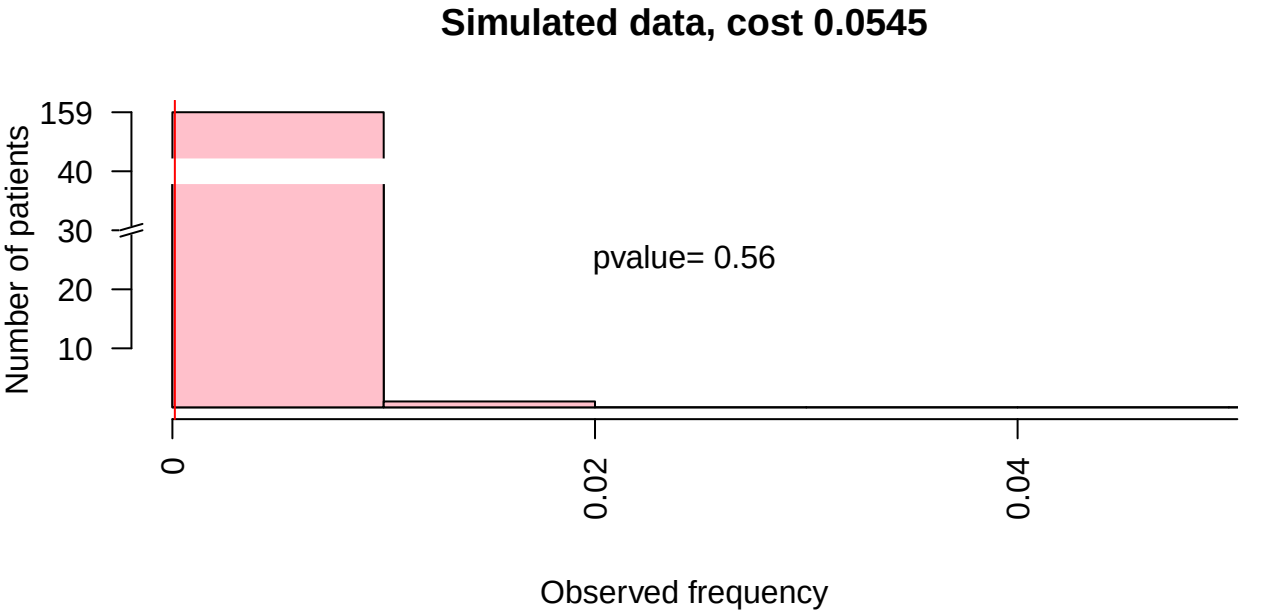

Single−SFS, site 219
Number of patients
143
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
Observed frequency

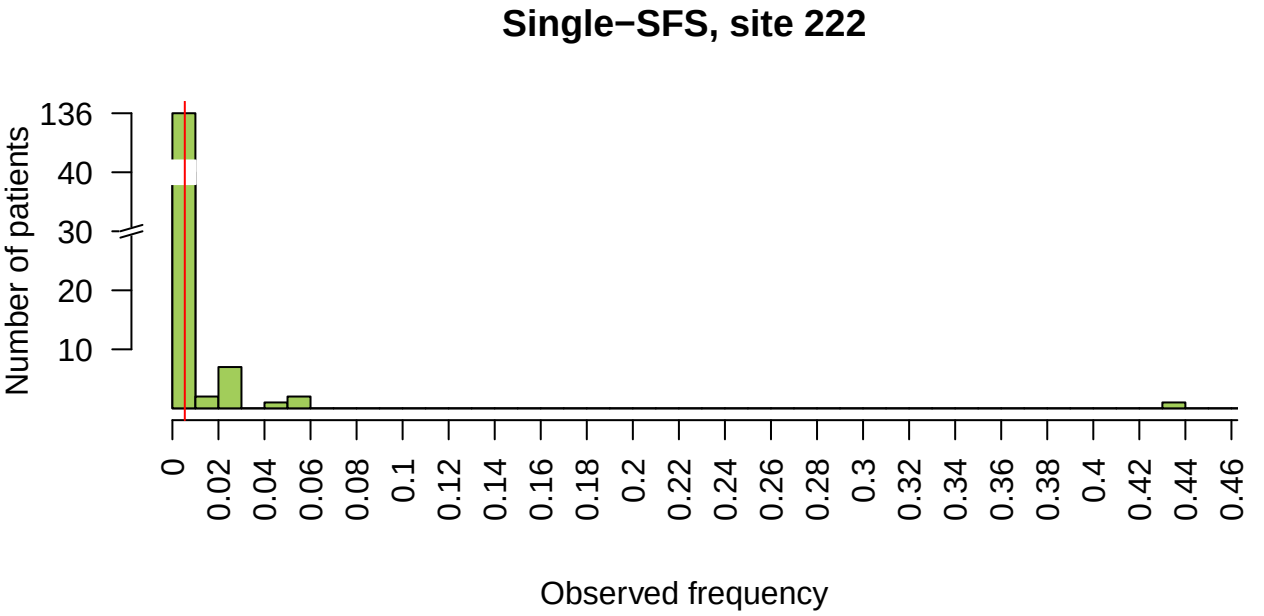

Simulated data, cost 0.004
Number of patients
146
40
30
20
10
pvalue= 0.405
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
Observed frequency

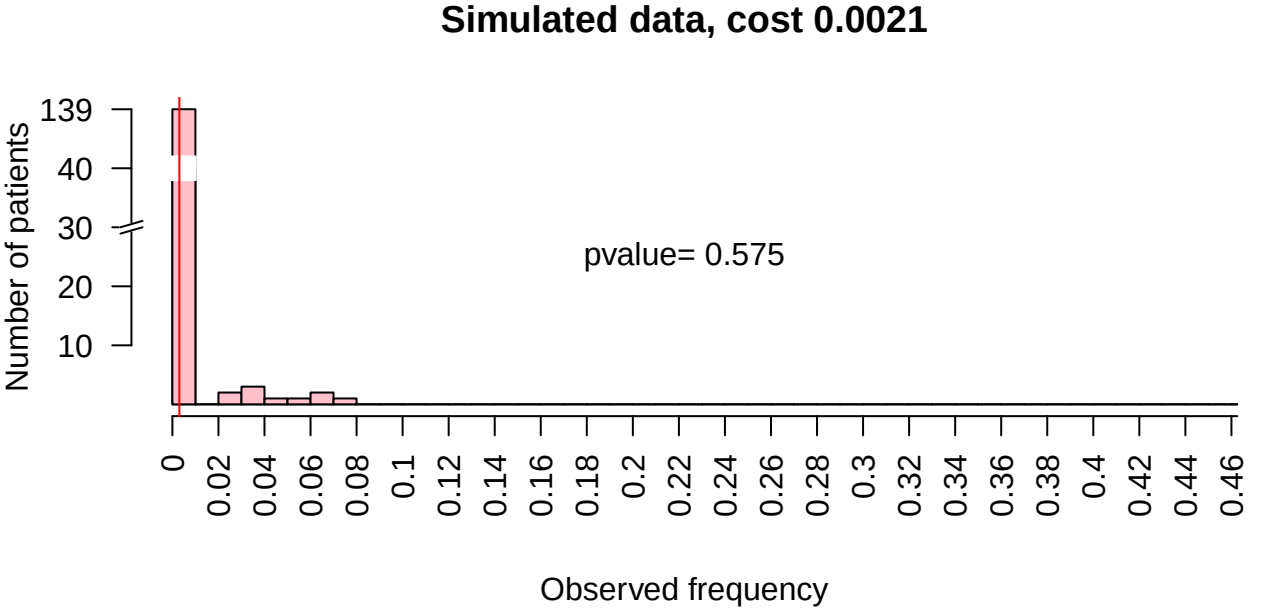

Single−SFS, site 220
Number of patients
148
40
30
20
10
0
0.02
0.04
0.06
0.08
Observed frequency

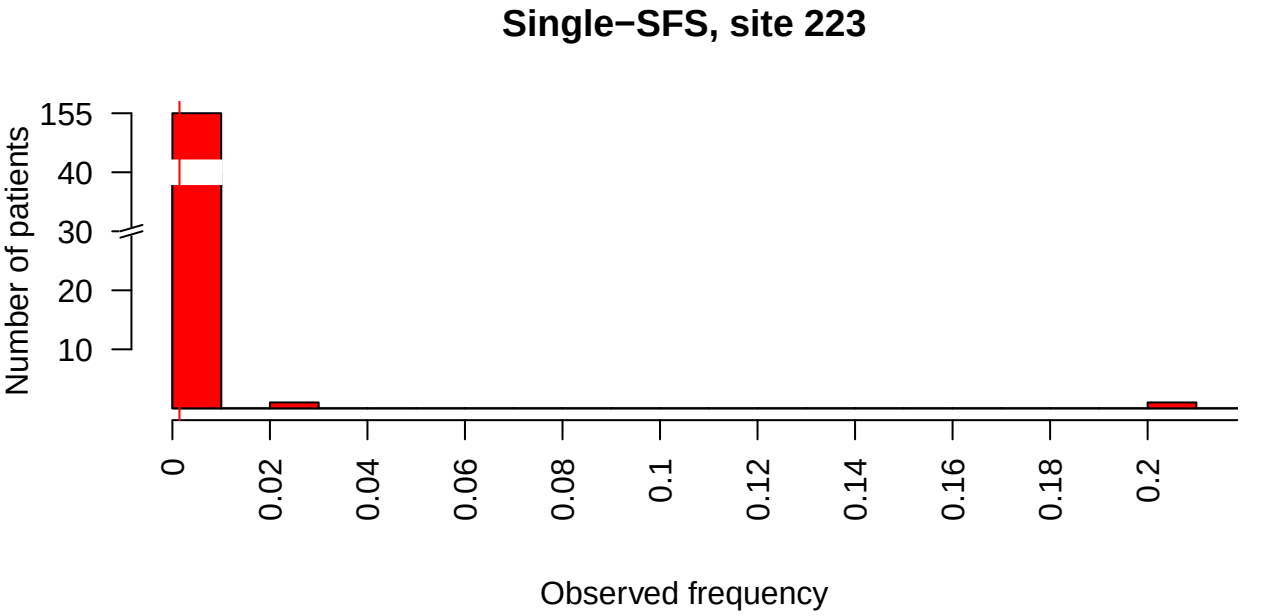

Simulated data, cost 0.0066
Number of patients
151
40
30
20
10
pvalue= 0.348
0
0.02
0.04
0.06
0.08
Observed frequency

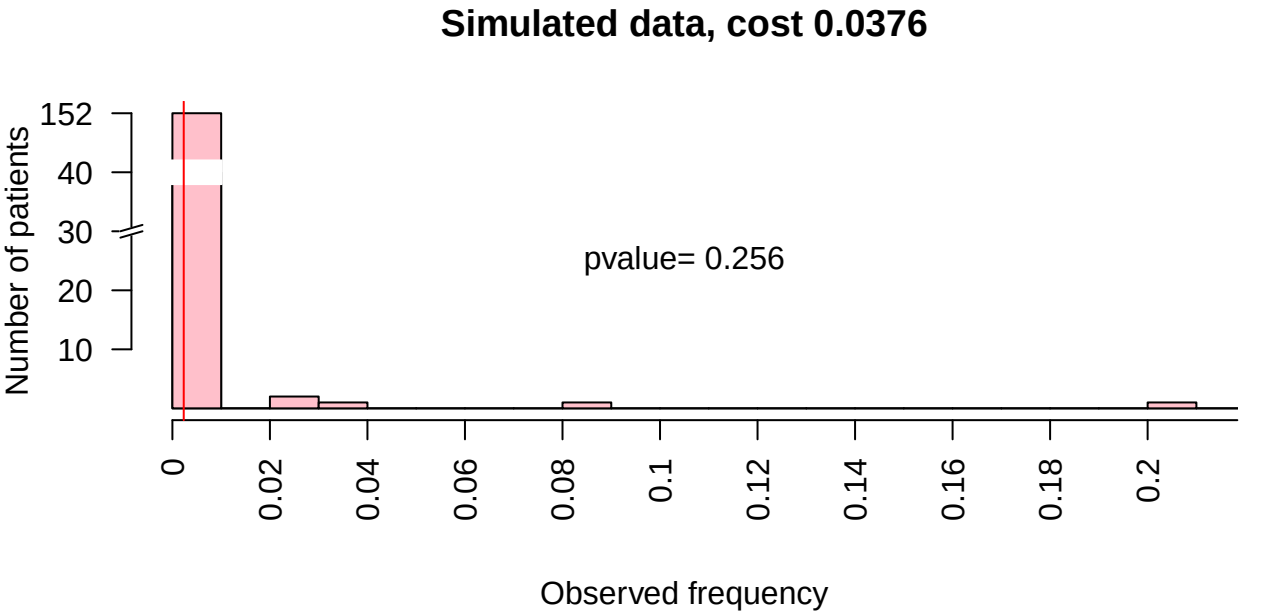

Single−SFS, site 221
Number of patients
158
40
30
20
10
0
0.02
0.04
Observed frequency

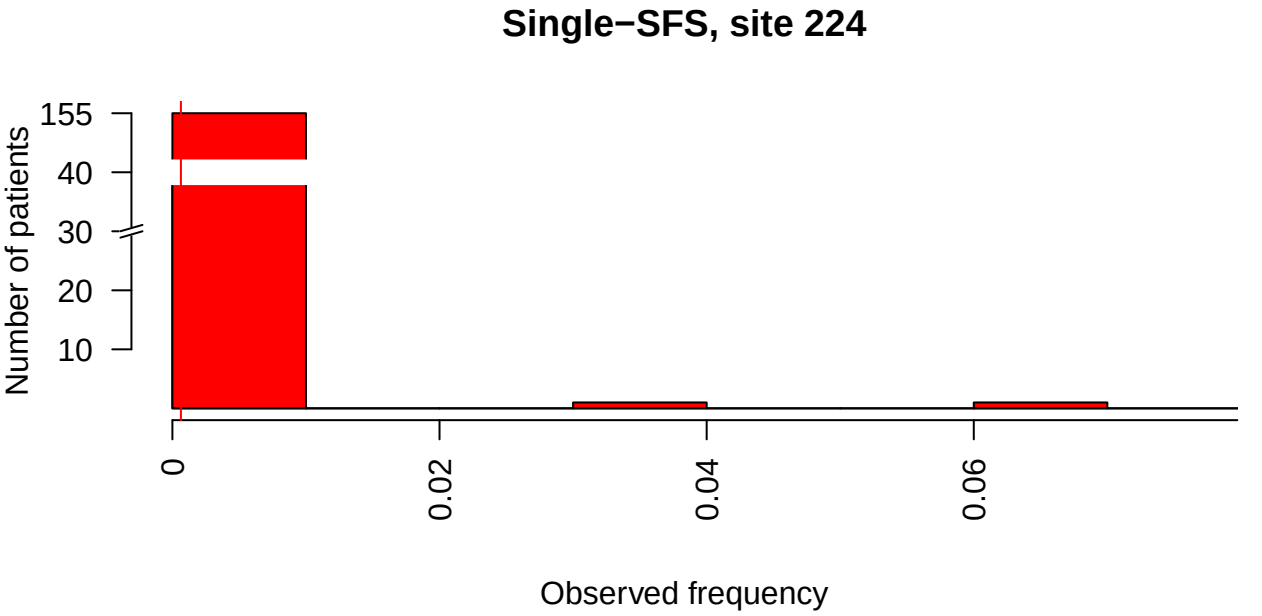

Simulated data, cost 0.0545
Number of patients
159
40
30
20
10
pvalue= 0.56
0
0.02
0.04
Observed frequency

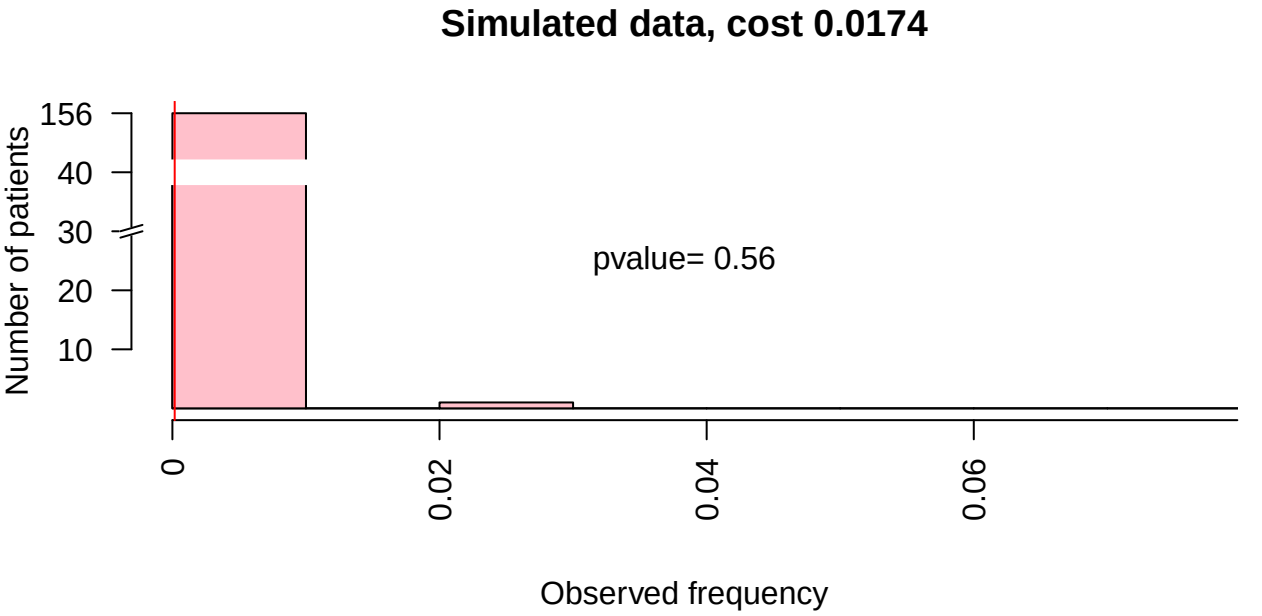

Single−SFS, site 222
Number of patients
136
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
0.24
0.26
0.28
0.3
0.32
0.34
0.36
0.38
0.4
0.42
0.44
0.46
Observed frequency

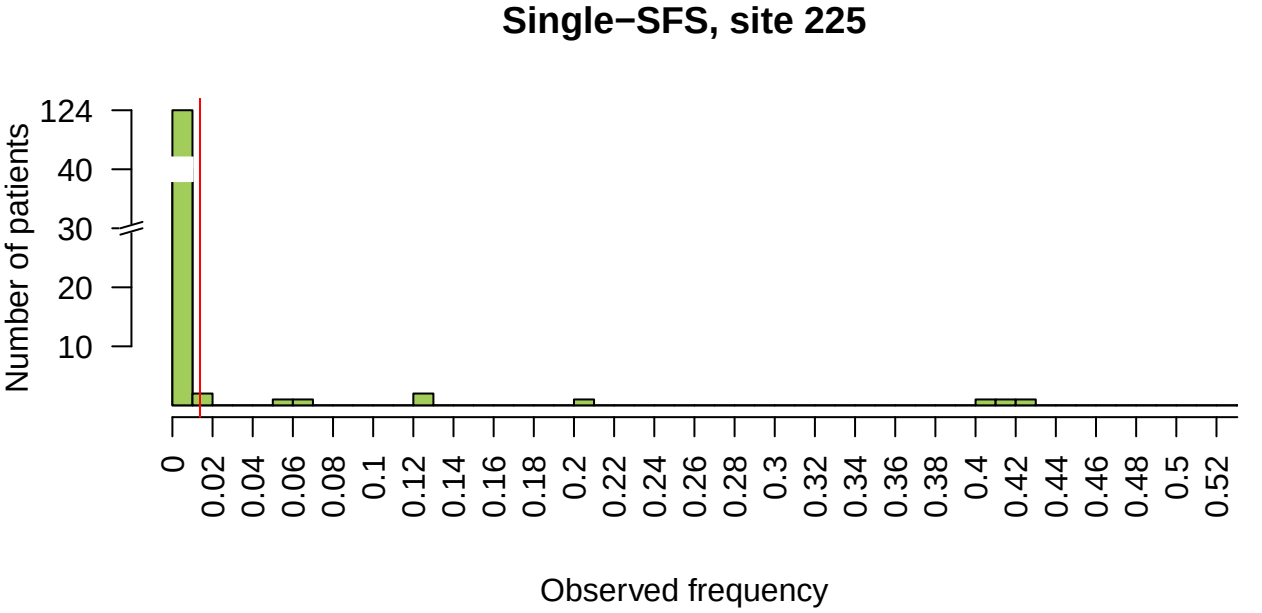

Simulated data, cost 0.0021
Number of patients
139
40
30
20
10
pvalue= 0.575
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
0.24
0.26
0.28
0.3
0.32
0.34
0.36
0.38
0.4
0.42
0.44
0.46
Observed frequency

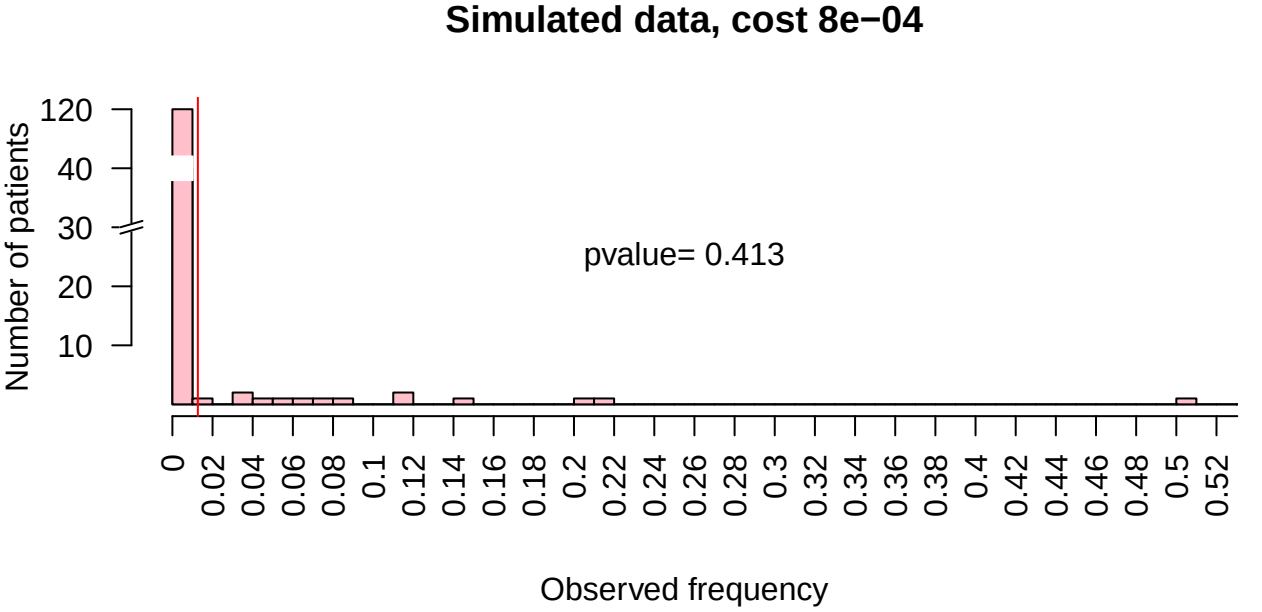

Single−SFS, site 223
Number of patients
155
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
Observed frequency

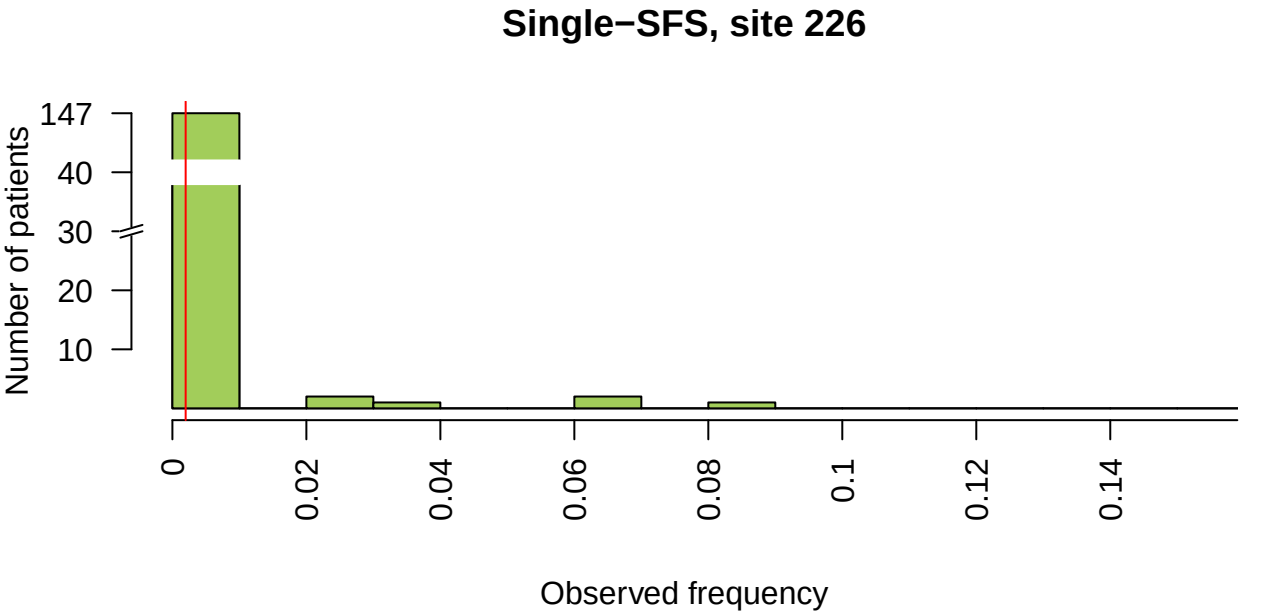

Simulated data, cost 0.0376
Number of patients
152
40
30
20
10
pvalue= 0.256
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
Observed frequency

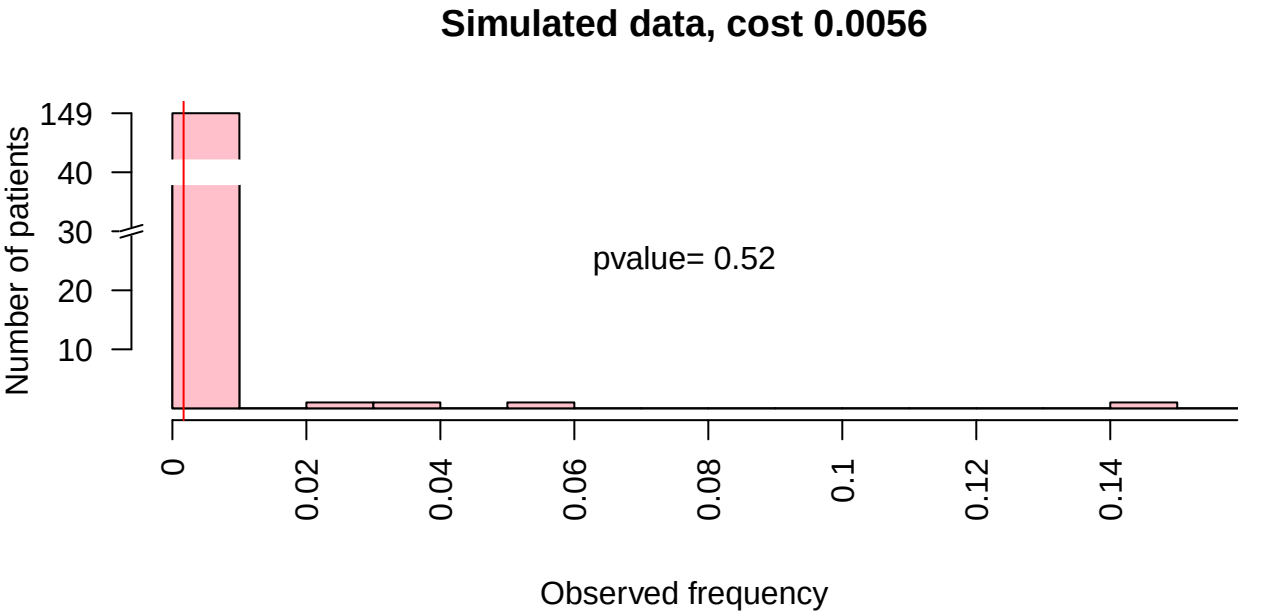

Single−SFS, site 224
Number of patients
155
40
30
20
10
0
0.02
0.04
0.06
Observed frequency

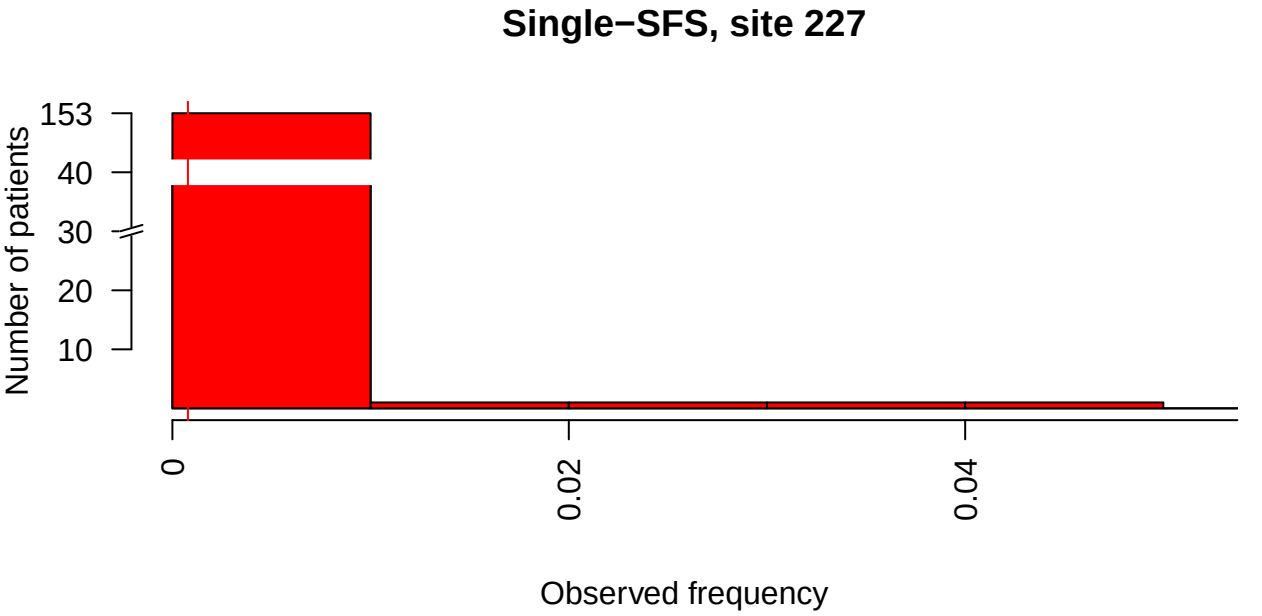

Simulated data, cost 0.0174
Number of patients
156
40
30
20
10
pvalue= 0.56
0
0.02
0.04
0.06
Observed frequency

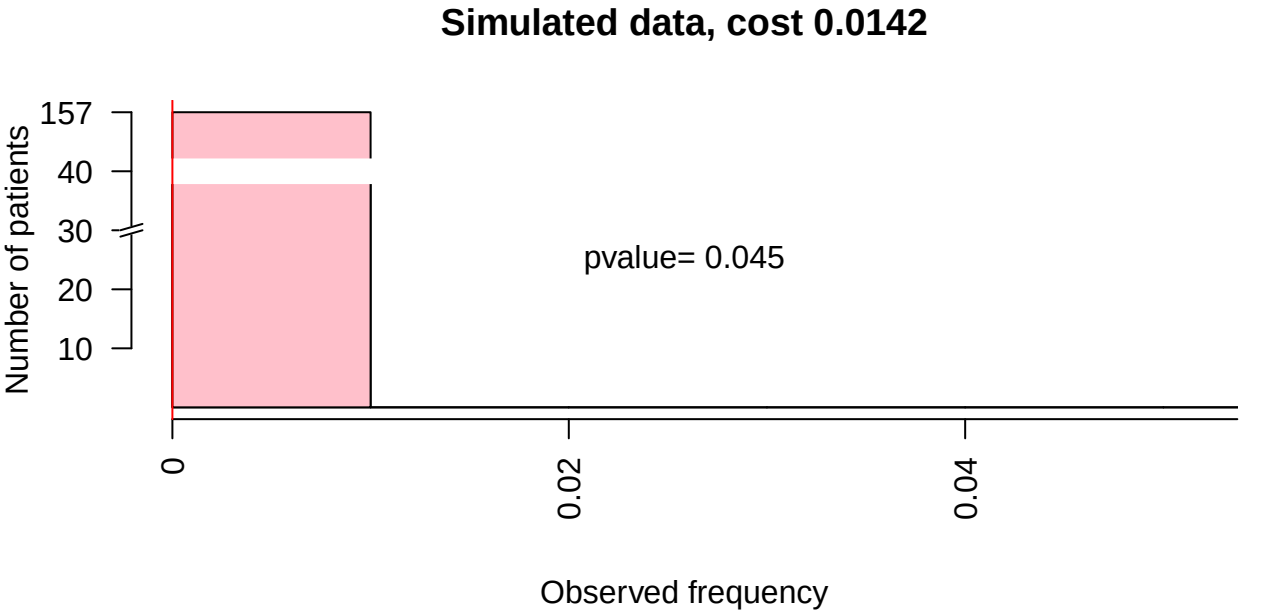

Single−SFS, site 225
Number of patients
124
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
0.24
0.26
0.28
0.3
0.32
0.34
0.36
0.38
0.4
0.42
0.44
0.46
0.48
0.5
0.52
Observed frequency

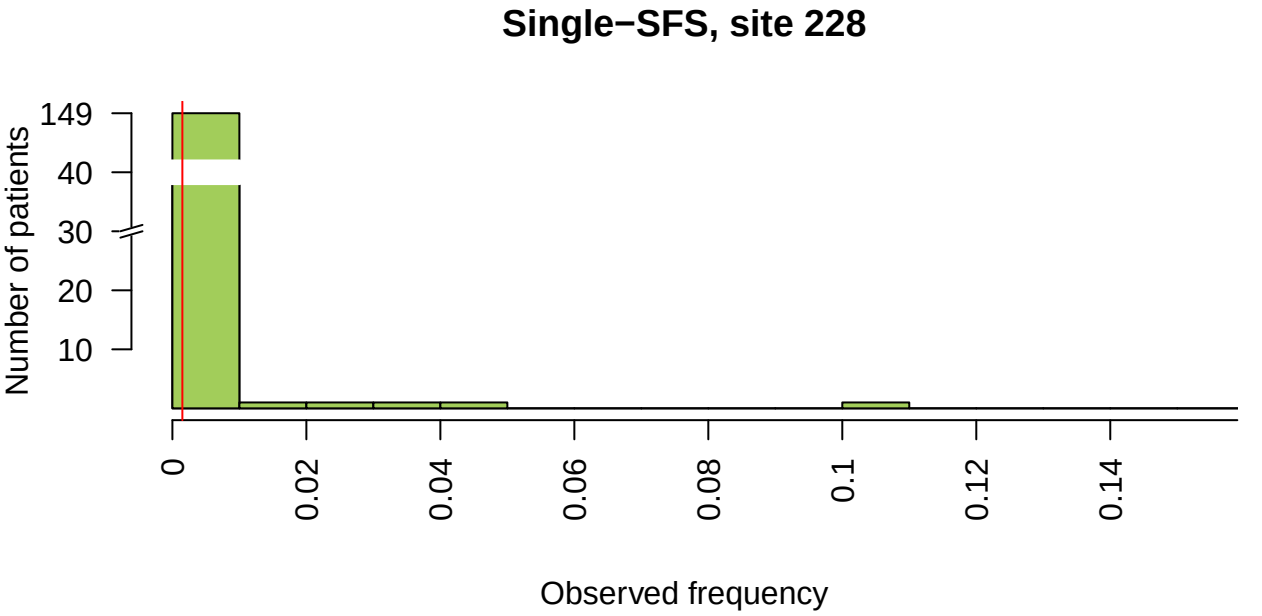

Simulated data, cost 8e−04
Number of patients
120
40
30
20
10
pvalue= 0.413
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
0.24
0.26
0.28
0.3
0.32
0.34
0.36
0.38
0.4
0.42
0.44
0.46
0.48
0.5
0.52
Observed frequency

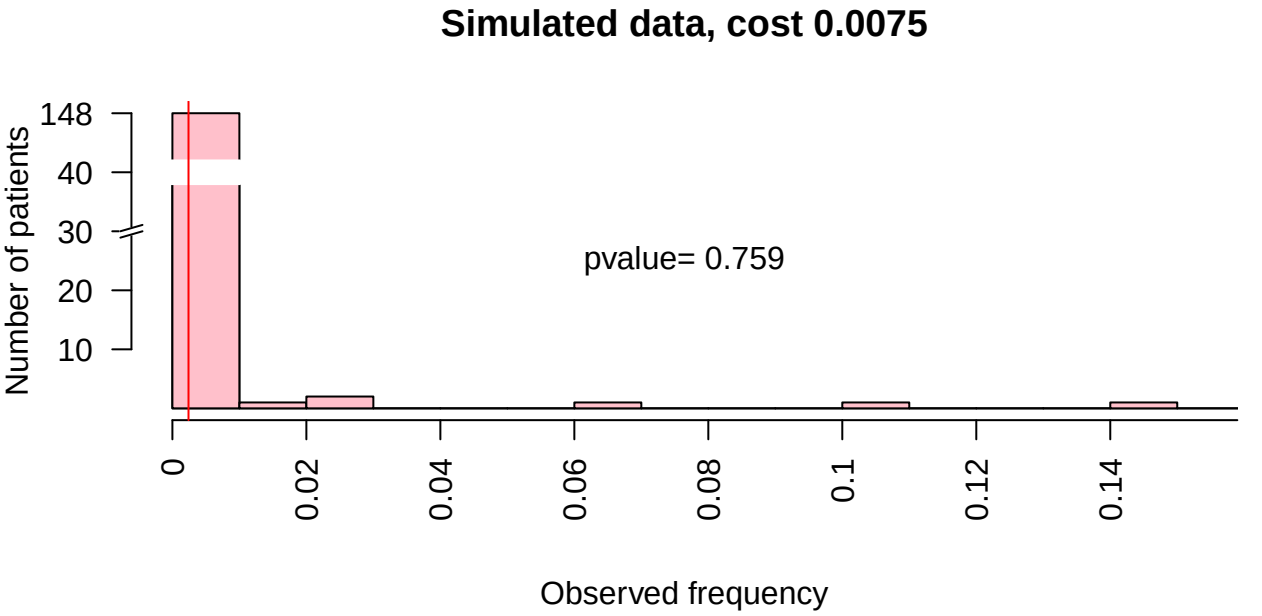

Single−SFS, site 226
Number of patients
147
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
Observed frequency

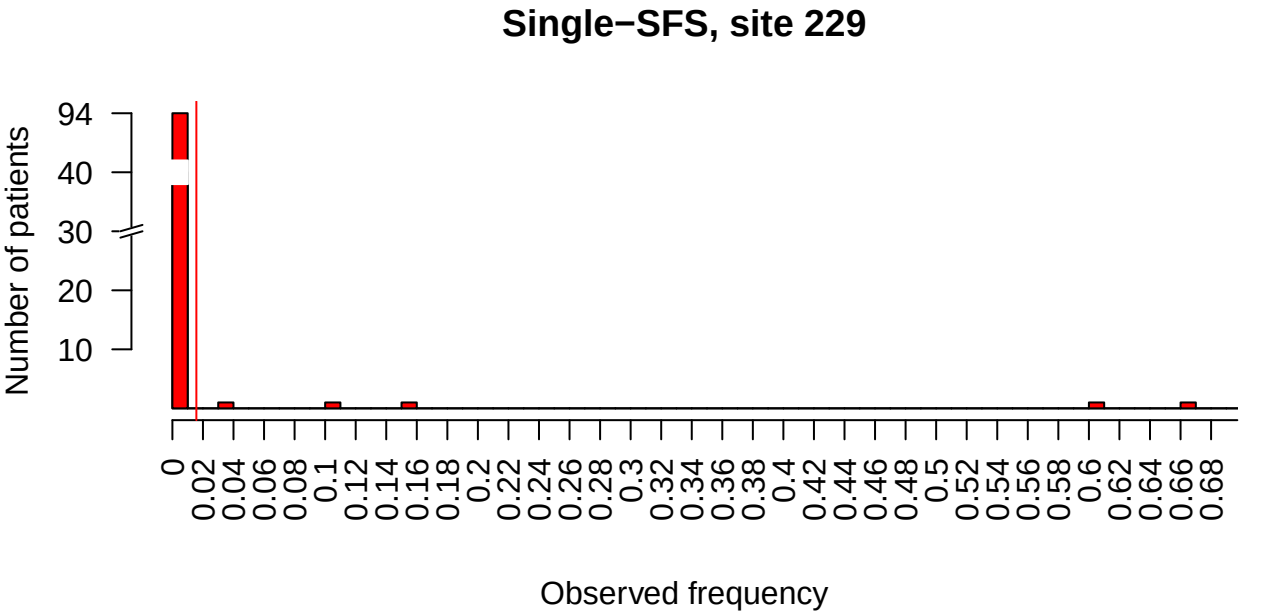

Simulated data, cost 0.0056
Number of patients
149
40
30
20
10
pvalue= 0.52
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
Observed frequency

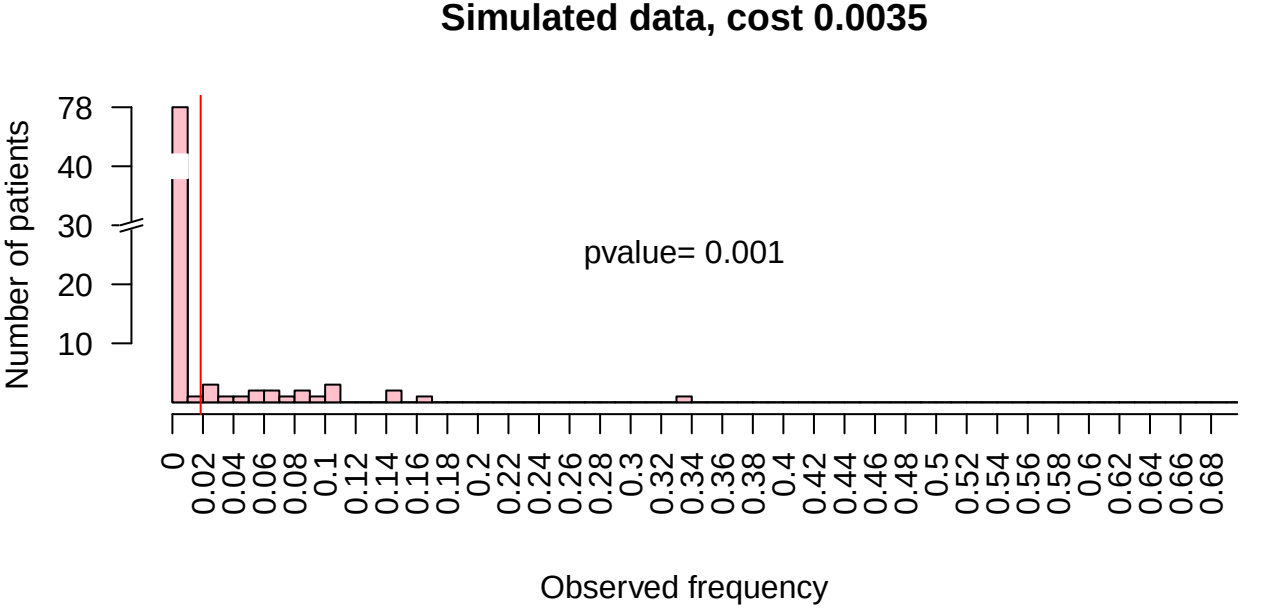

Single−SFS, site 227
Number of patients
153
40
30
20
10
0
0.02
0.04
Observed frequency

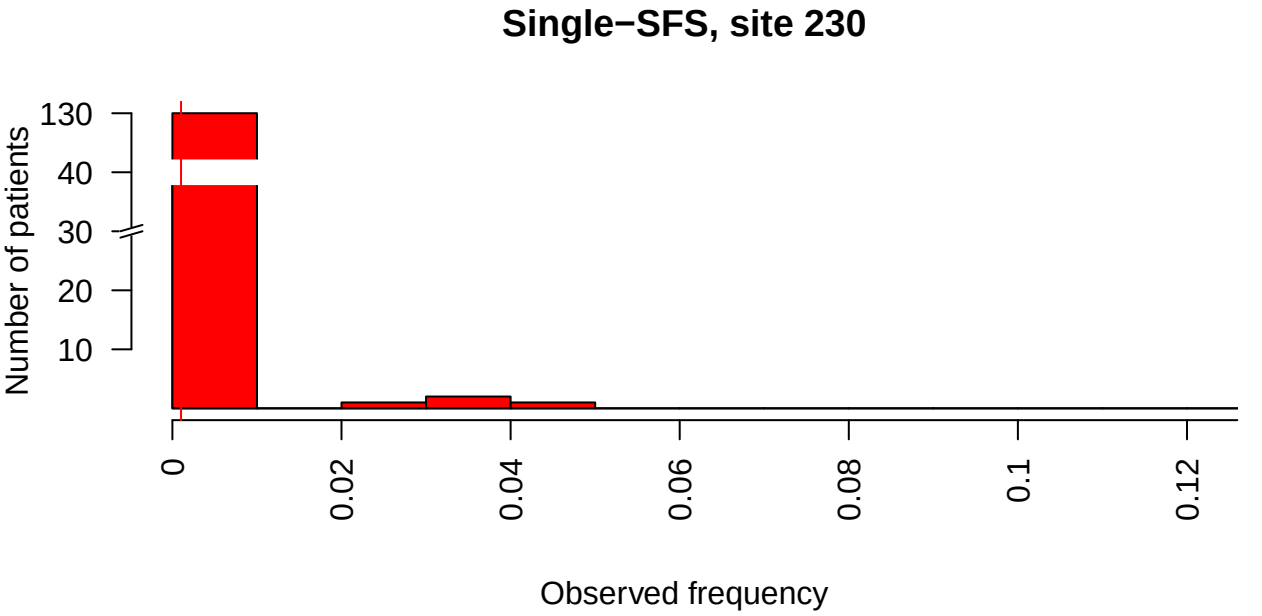

Simulated data, cost 0.0142
Number of patients
157
40
30
20
10
pvalue= 0.045
0
0.02
0.04
Observed frequency

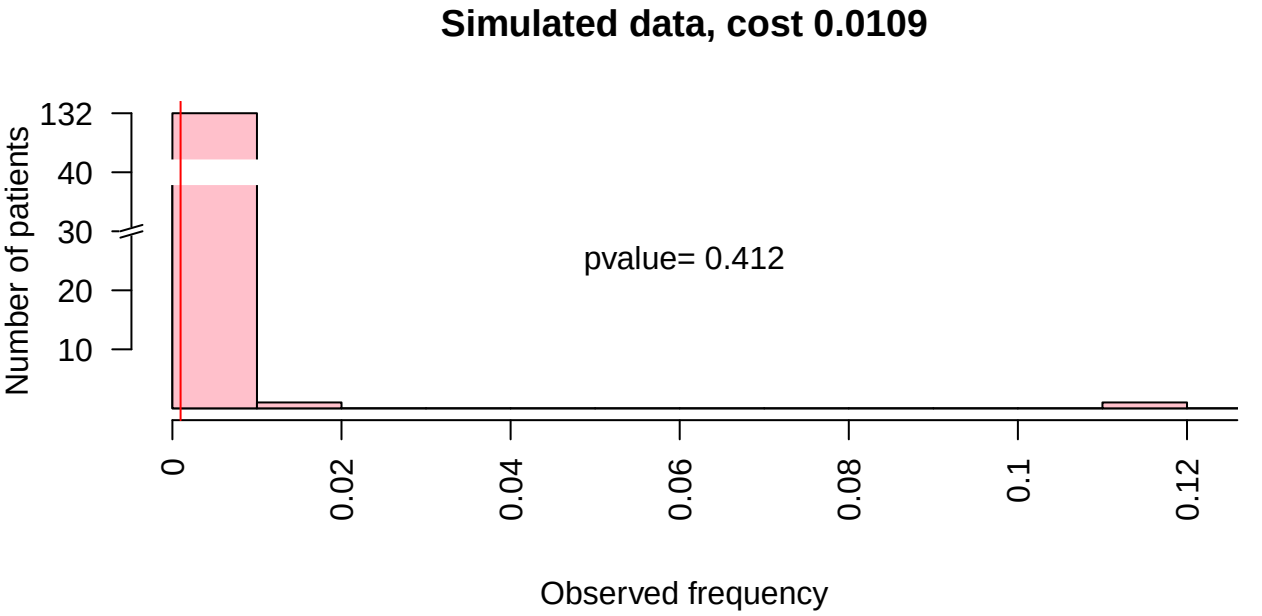

Single−SFS, site 228
Number of patients
149
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
Observed frequency

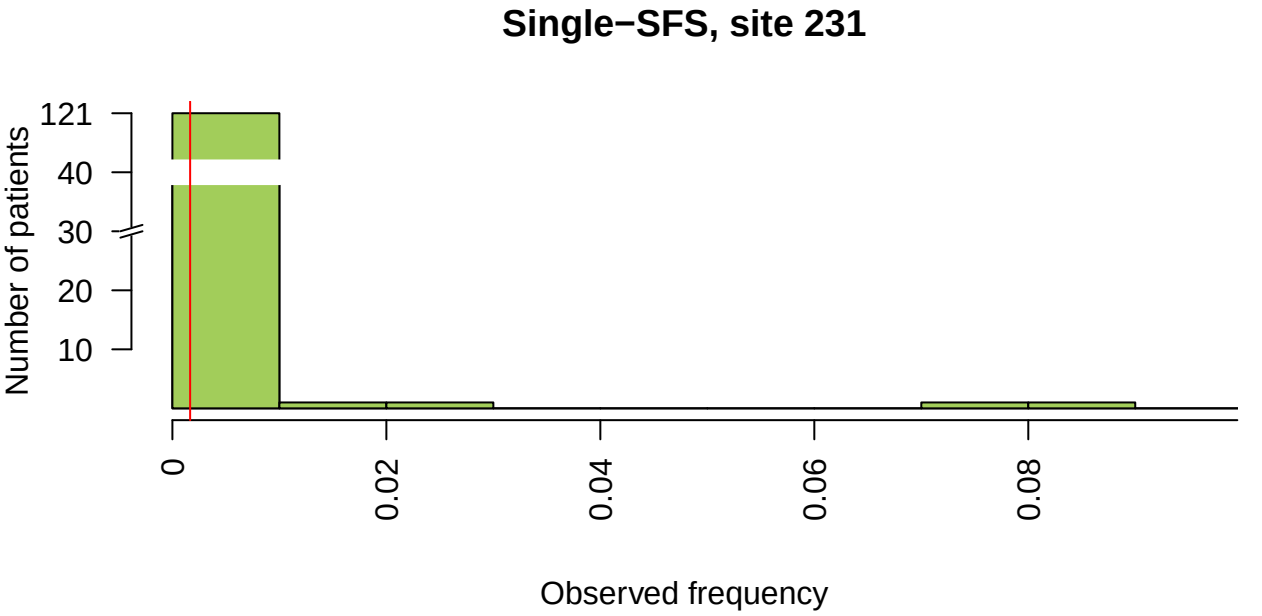

Simulated data, cost 0.0075
Number of patients
148
40
30
20
10
pvalue= 0.759
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
Observed frequency

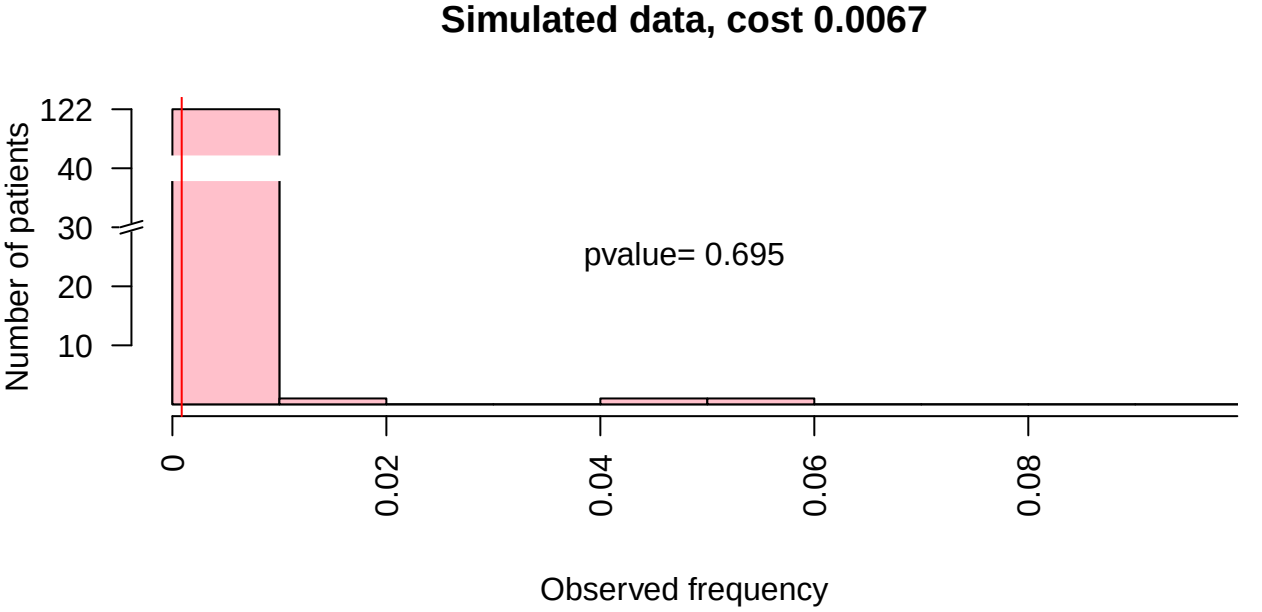

Single−SFS, site 229
Number of patients
94
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
0.24
0.26
0.28
0.3
0.32
0.34
0.36
0.38
0.4
0.42
0.44
0.46
0.48
0.5
0.52
0.54
0.56
0.58
0.6
0.62
0.64
0.66
0.68
Observed frequency

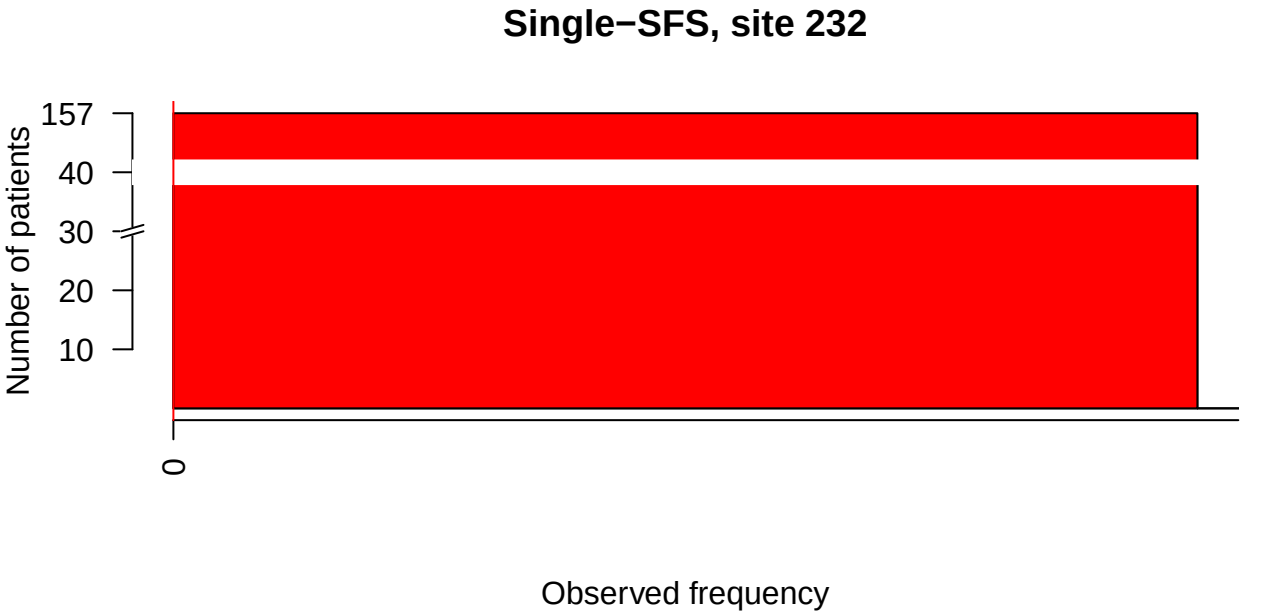

Simulated data, cost 0.0035
Number of patients
78
40
30
20
10
pvalue= 0.001
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
0.24
0.26
0.28
0.3
0.32
0.34
0.36
0.38
0.4
0.42
0.44
0.46
0.48
0.5
0.52
0.54
0.56
0.58
0.6
0.62
0.64
0.66
0.68
Observed frequency

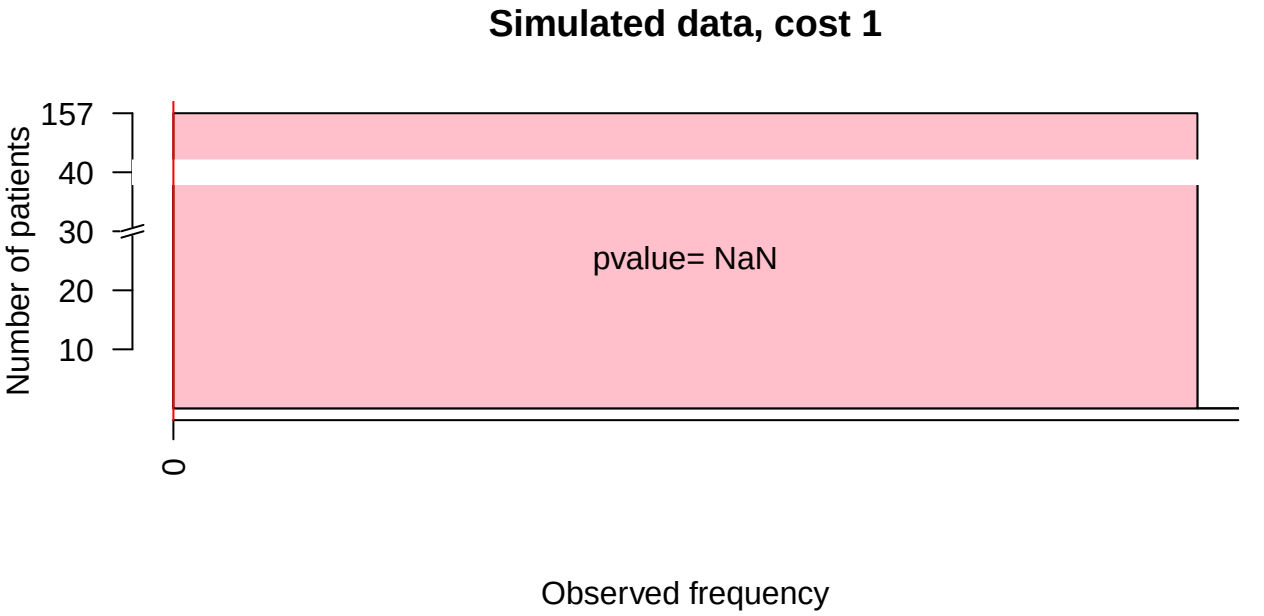

Single−SFS, site 230
Number of patients
130
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
Observed frequency

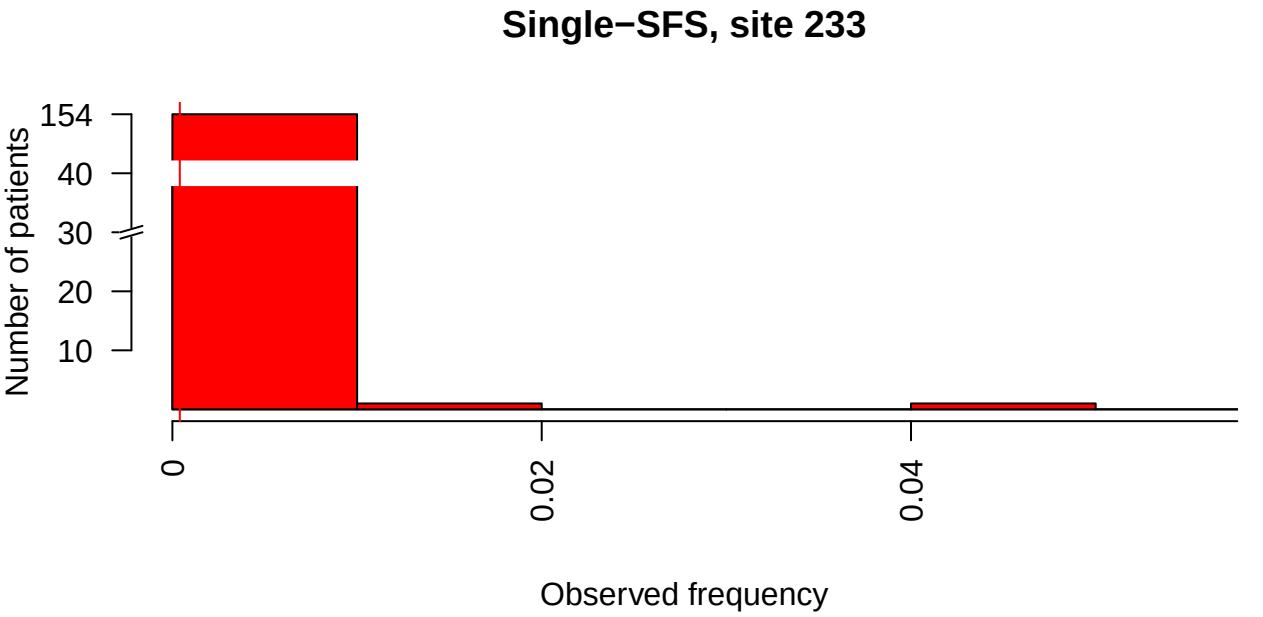

Simulated data, cost 0.0109
Number of patients
132
40
30
20
10
pvalue= 0.412
0
0.02
0.04
0.06
0.08
0.1
0.12
Observed frequency

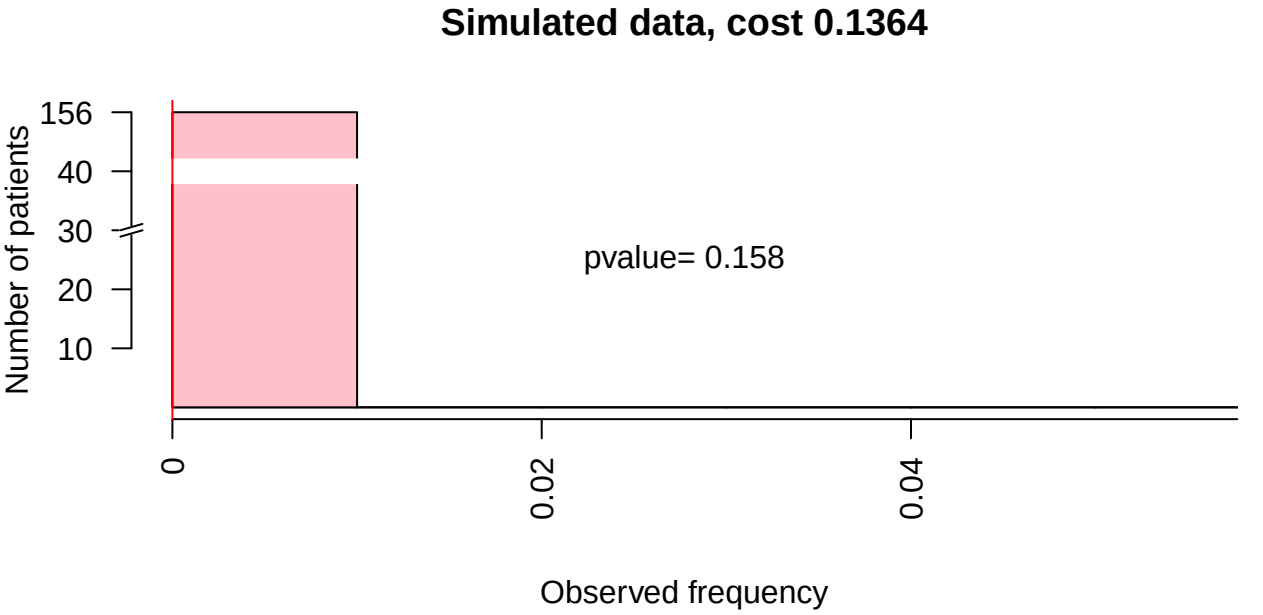

Single−SFS, site 231
Number of patients
121
40
30
20
10
0
0.02
0.04
0.06
0.08
Observed frequency

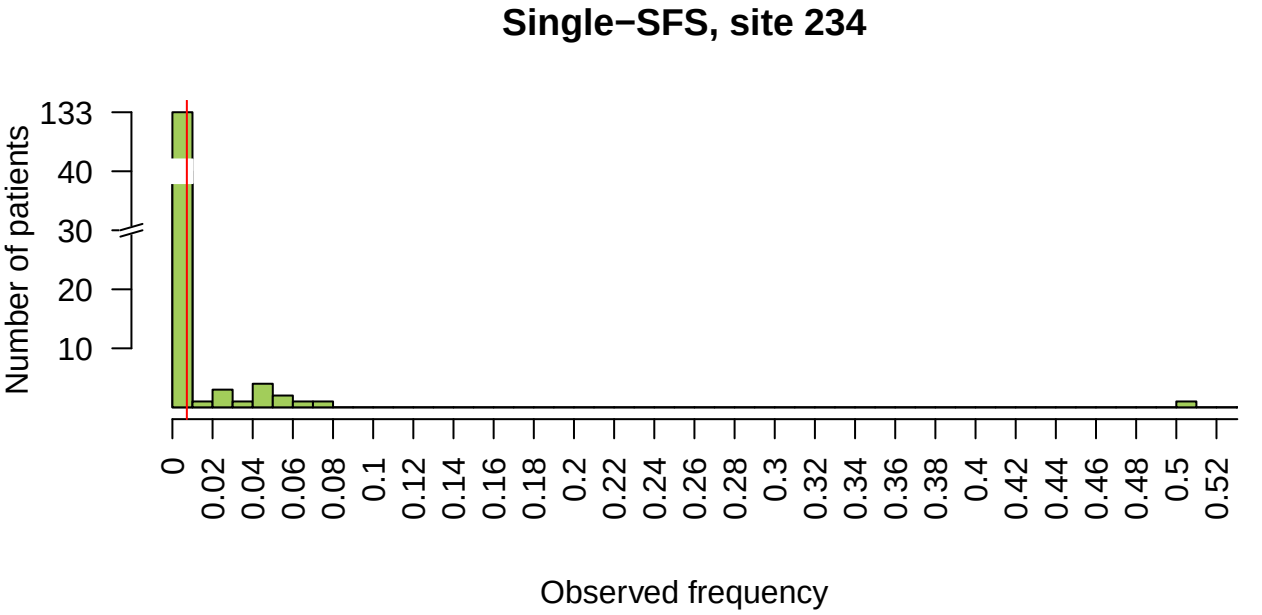

Simulated data, cost 0.0067
Number of patients
122
40
30
20
10
pvalue= 0.695
0
0.02
0.04
0.06
0.08
Observed frequency

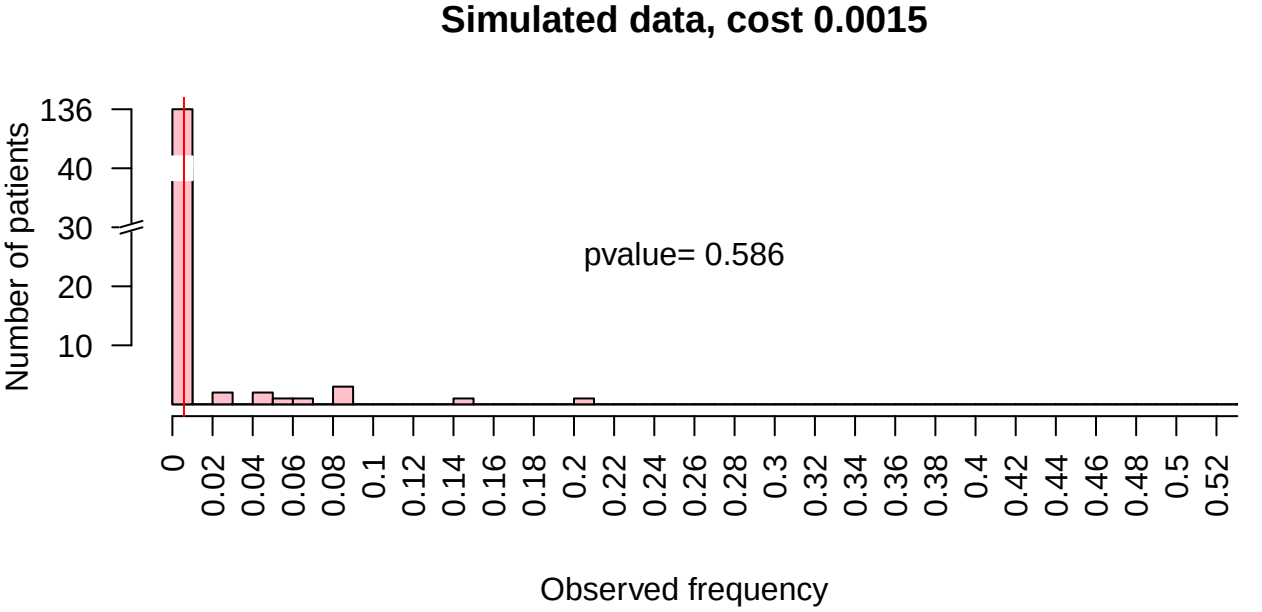

Single−SFS, site 232
Number of patients
157
40
30
20
10
0
Observed frequency

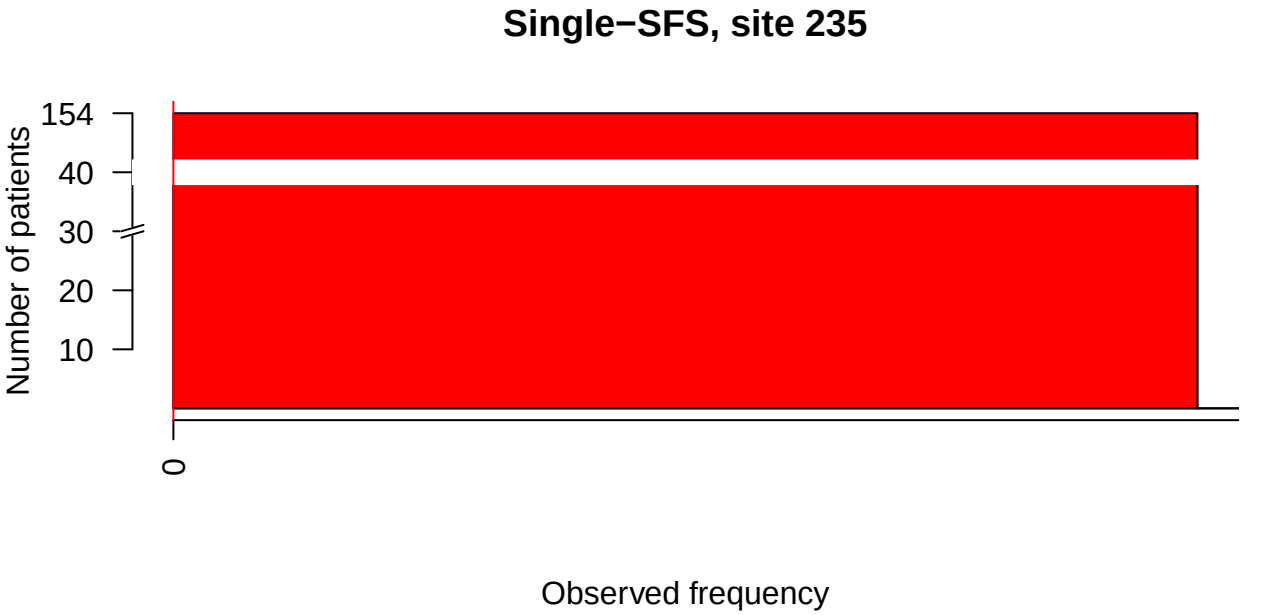

Simulated data, cost 1
Number of patients
157
40
30
20
10
0
pvalue= NaN
Observed frequency

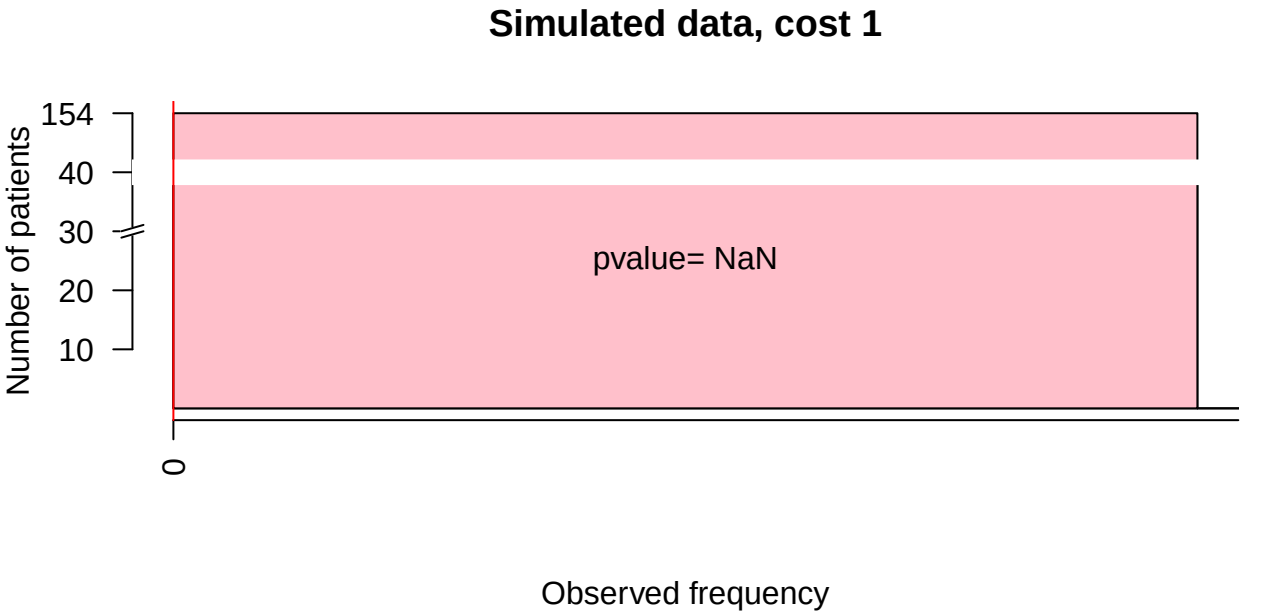

Single−SFS, site 233
Number of patients
154
40
30
20
10
0
0.02
0.04
Observed frequency

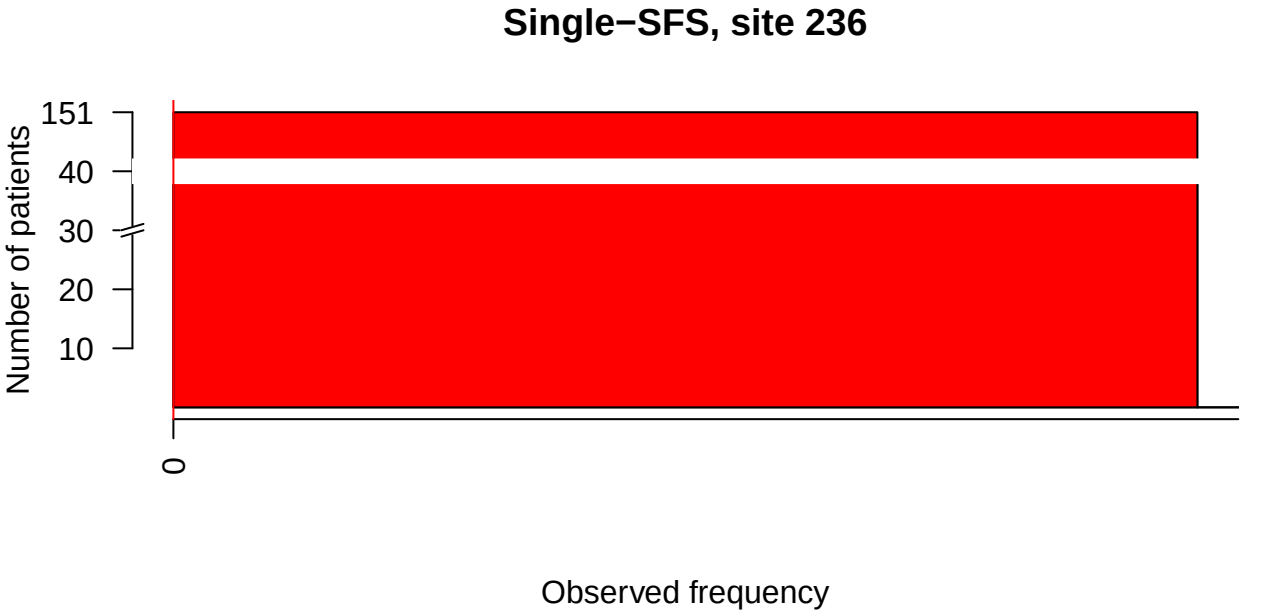

Simulated data, cost 0.1364
Number of patients
156
40
30
20
10
pvalue= 0.158
0
0.02
0.04
Observed frequency

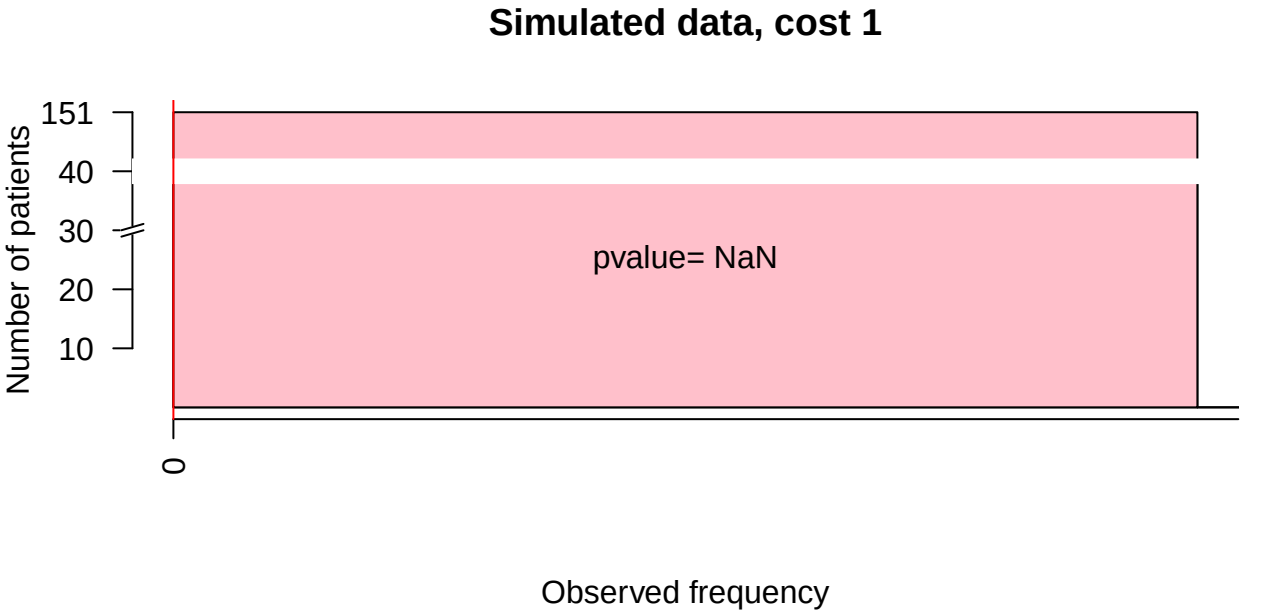

Single−SFS, site 234
Number of patients
133
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
0.24
0.26
0.28
0.3
0.32
0.34
0.36
0.38
0.4
0.42
0.44
0.46
0.48
0.5
0.52
Observed frequency

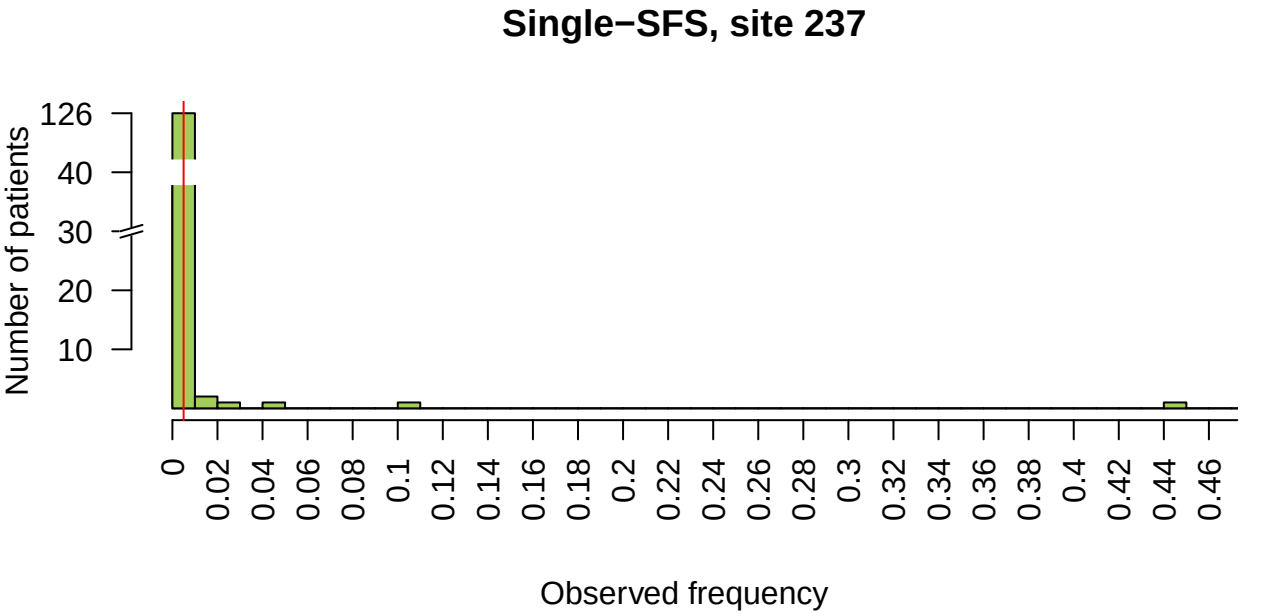

Simulated data, cost 0.0015
Number of patients
136
40
30
20
10
pvalue= 0.586
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
0.24
0.26
0.28
0.3
0.32
0.34
0.36
0.38
0.4
0.42
0.44
0.46
0.48
0.5
0.52
Observed frequency

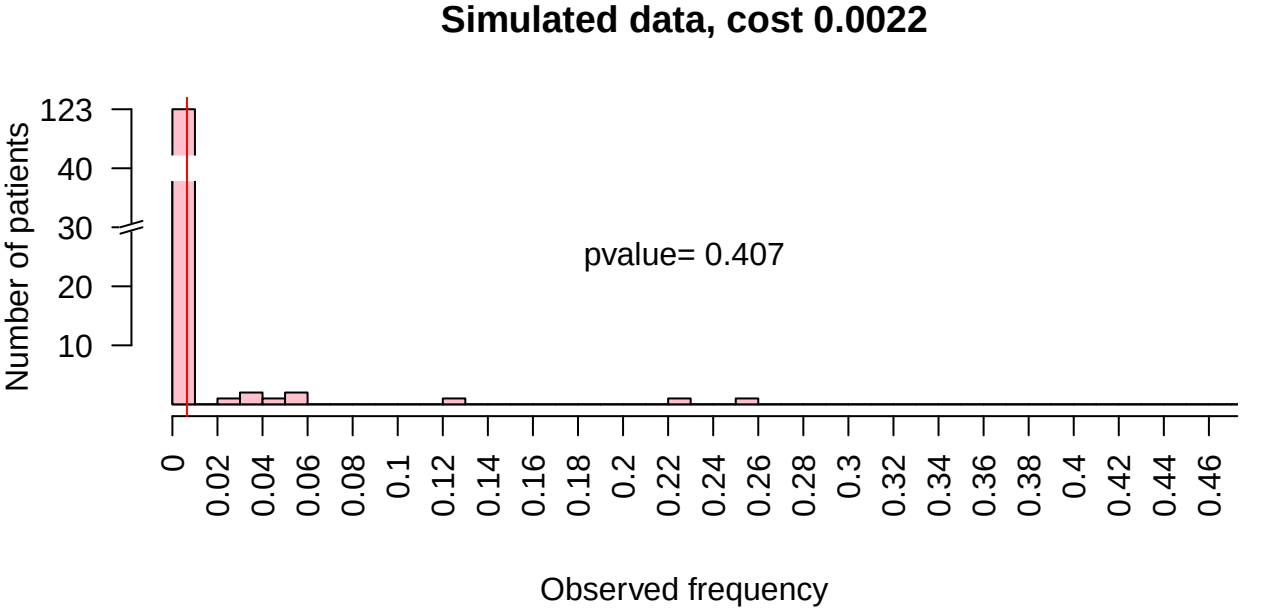

Single−SFS, site 235
Number of patients
154
40
30
20
10
0
Observed frequency

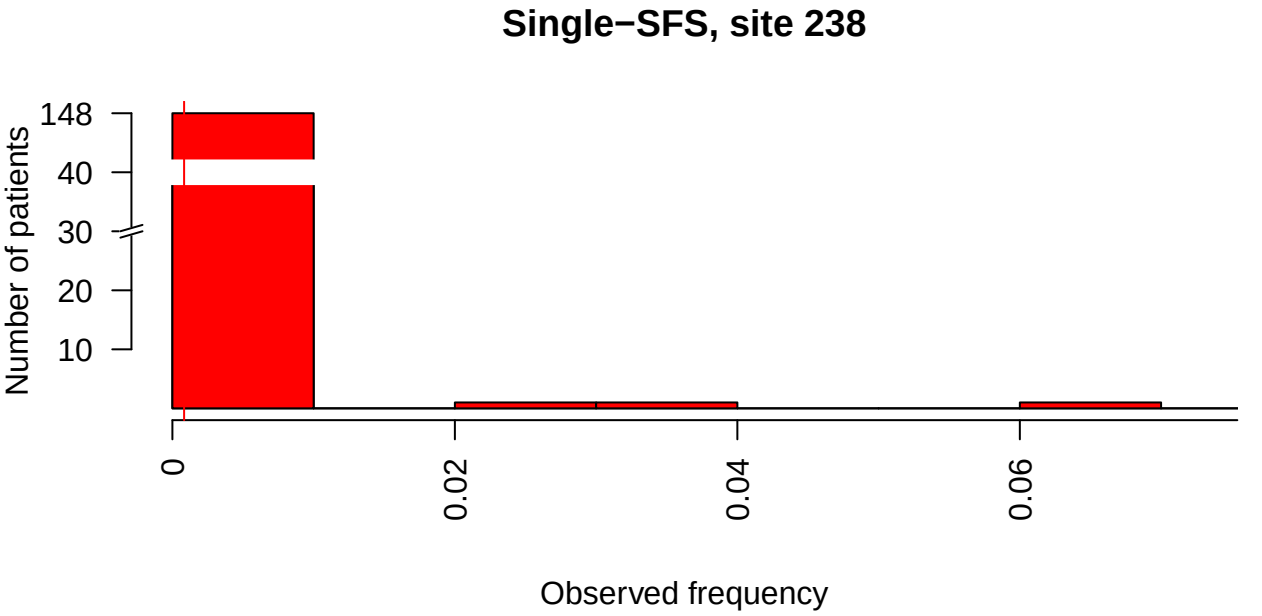

Simulated data, cost 1
Number of patients
154
40
30
20
10
0
pvalue= NaN
Observed frequency

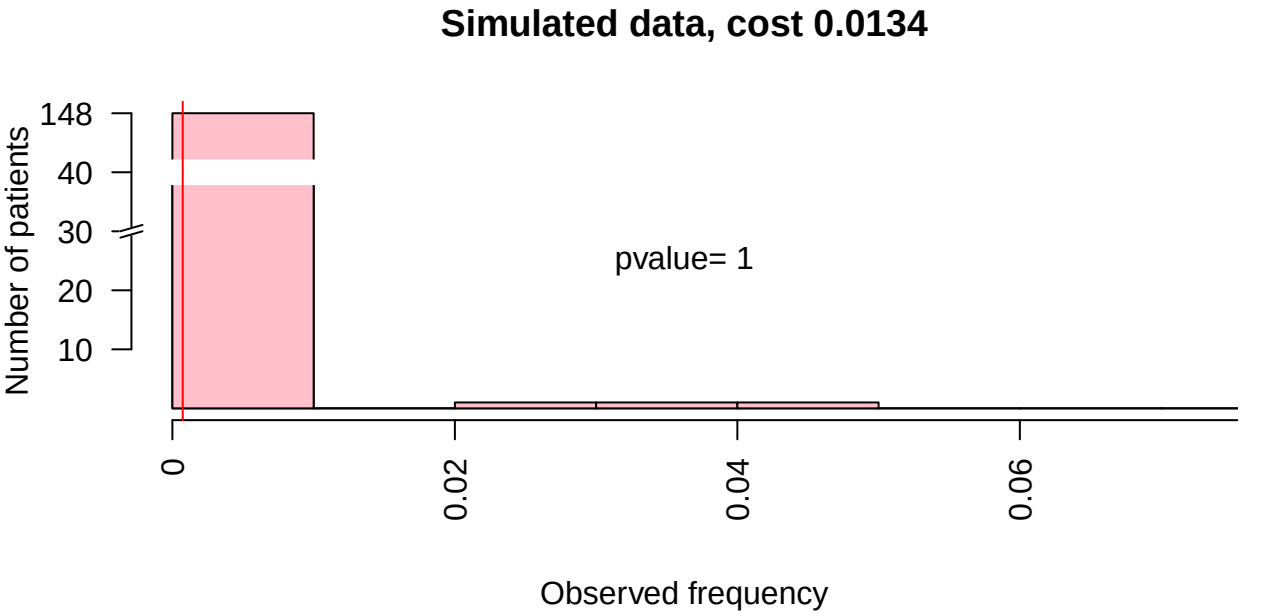

Single−SFS, site 236
Number of patients
151
40
30
20
10
0
Observed frequency

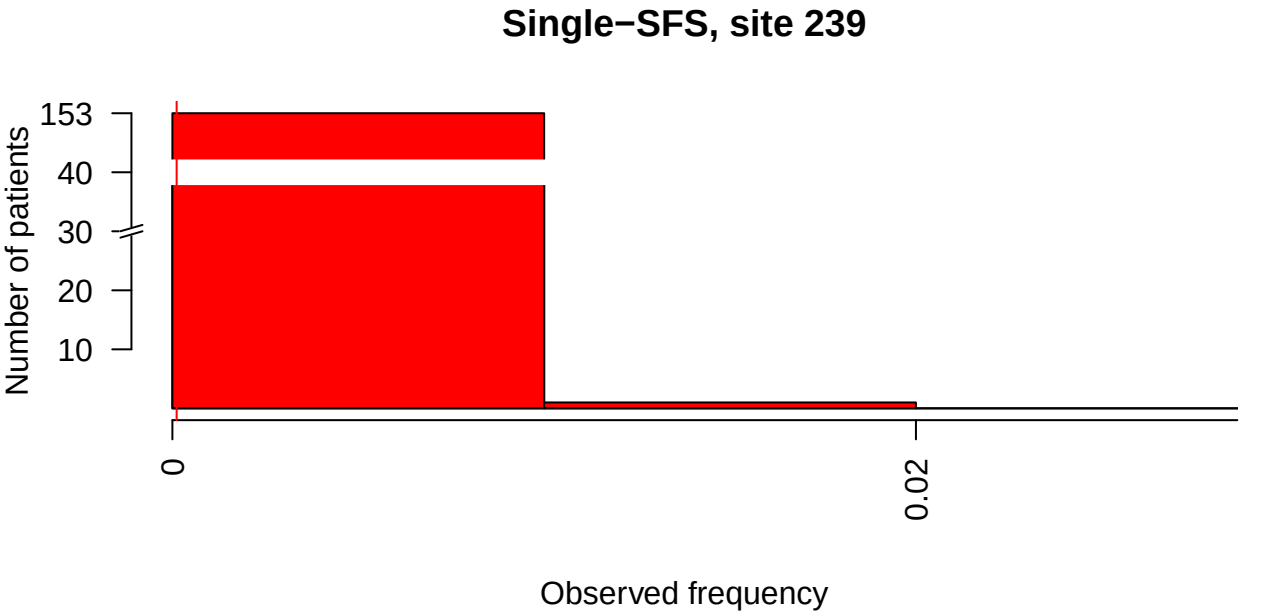

Simulated data, cost 1
Number of patients
151
40
30
20
10
0
pvalue= NaN
Observed frequency

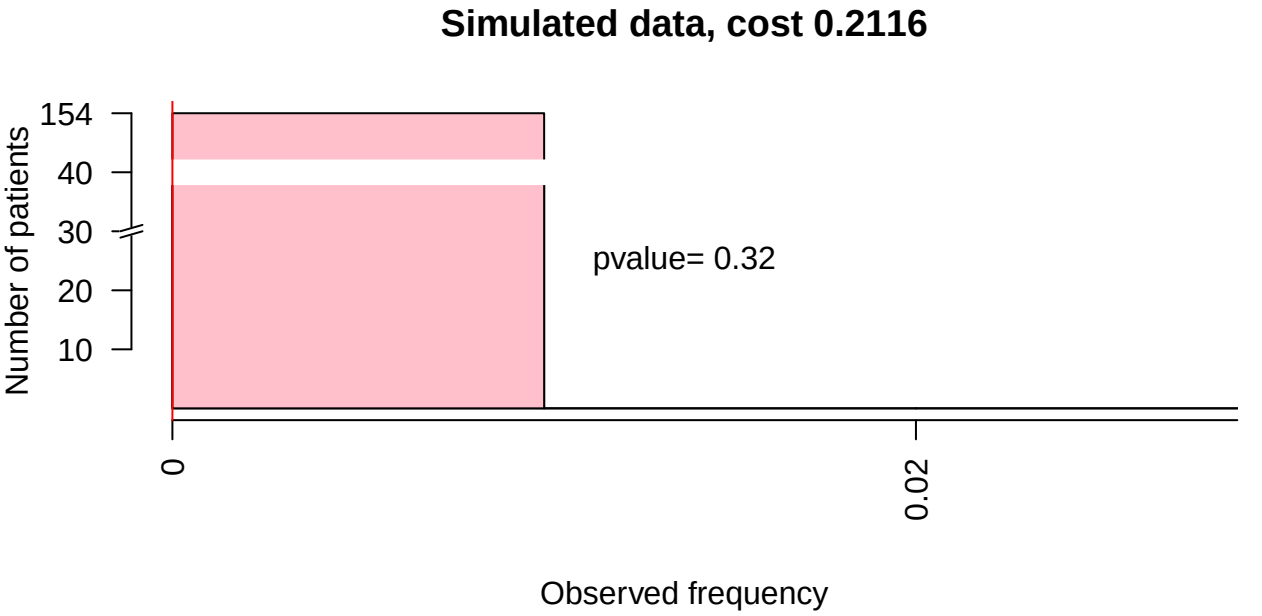

Single−SFS, site 237
Number of patients
126
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
0.24
0.26
0.28
0.3
0.32
0.34
0.36
0.38
0.4
0.42
0.44
0.46
Observed frequency

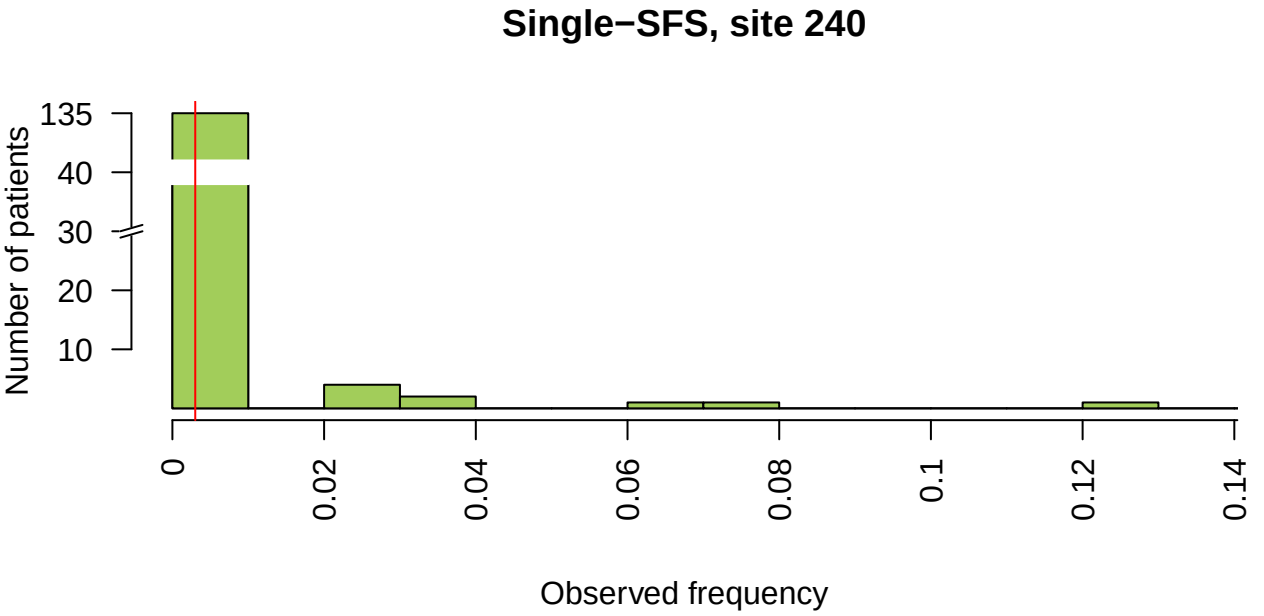

Simulated data, cost 0.0022
Number of patients
123
40
30
20
10
pvalue= 0.407
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
0.24
0.26
0.28
0.3
0.32
0.34
0.36
0.38
0.4
0.42
0.44
0.46
Observed frequency

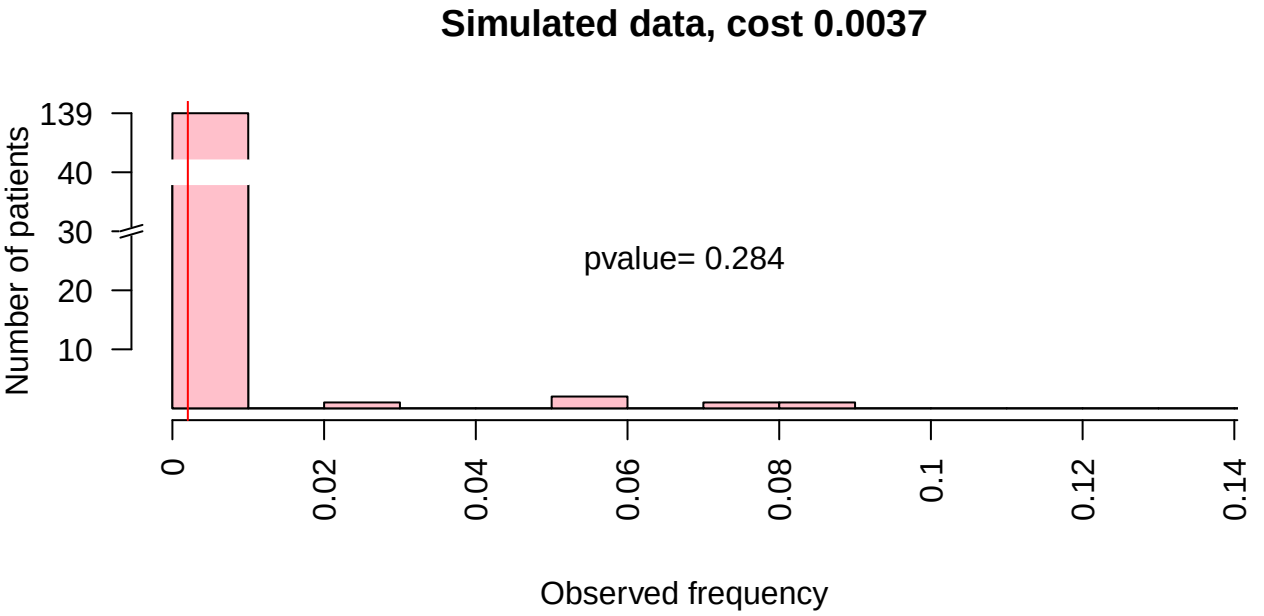

Single−SFS, site 238
Number of patients
148
40
30
20
10
0
0.02
0.04
0.06
Observed frequency

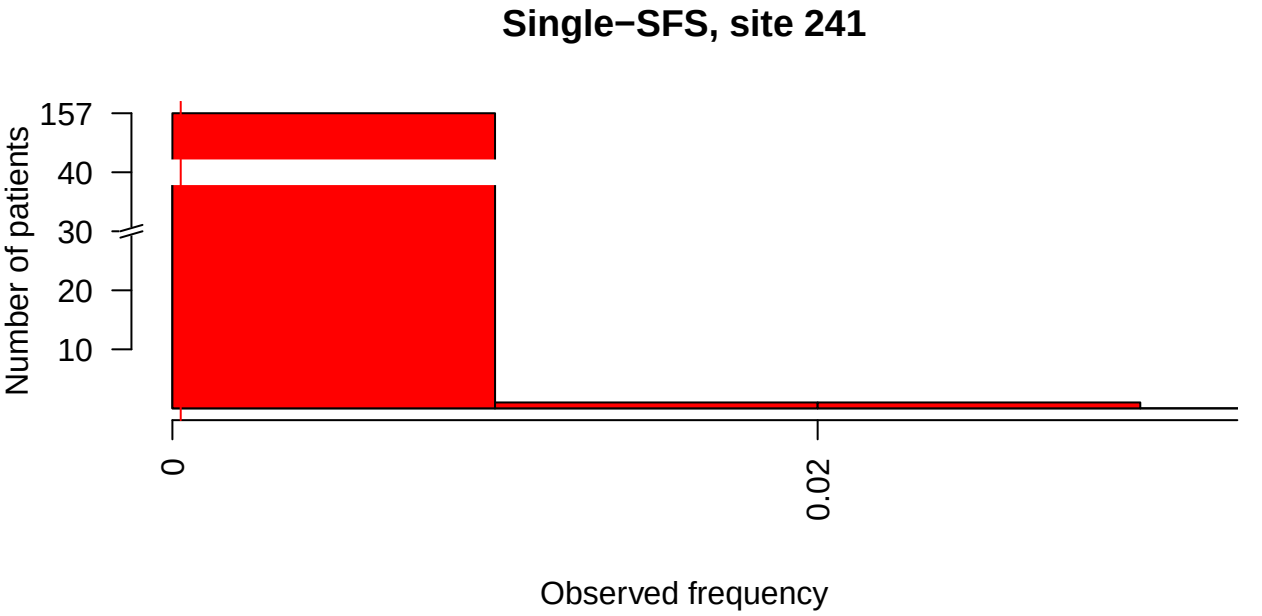

Simulated data, cost 0.0134
Number of patients
148
40
30
20
10
pvalue= 1
0
0.02
0.04
0.06
Observed frequency

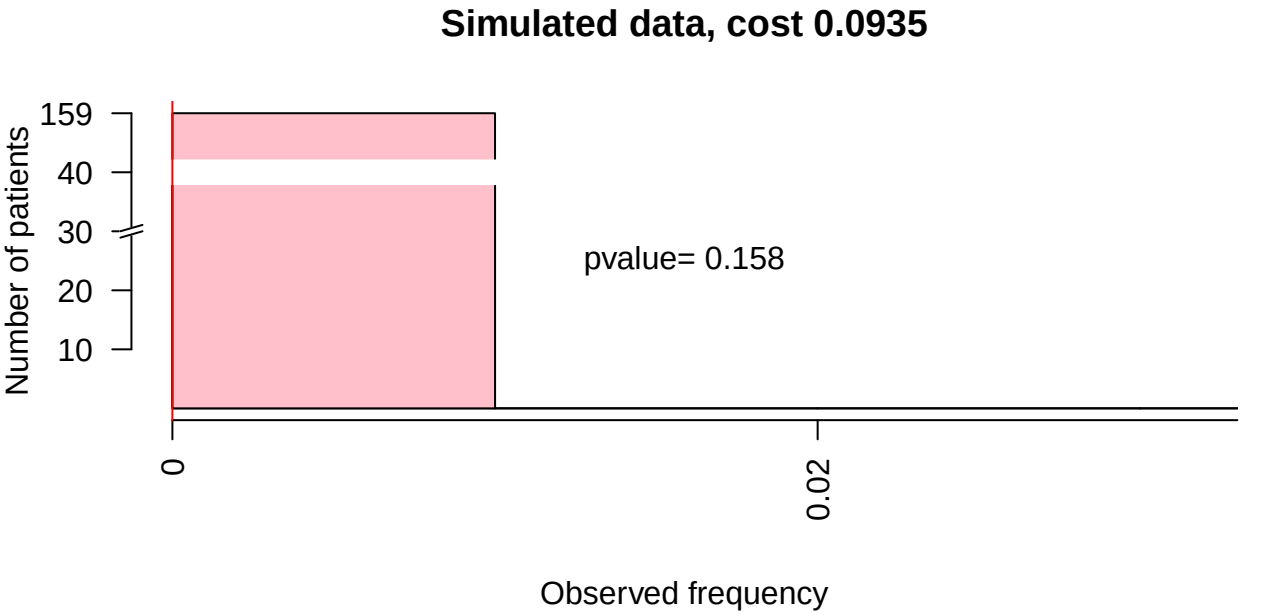

Single−SFS, site 239
Number of patients
153
40
30
20
10
0
0.02
Observed frequency

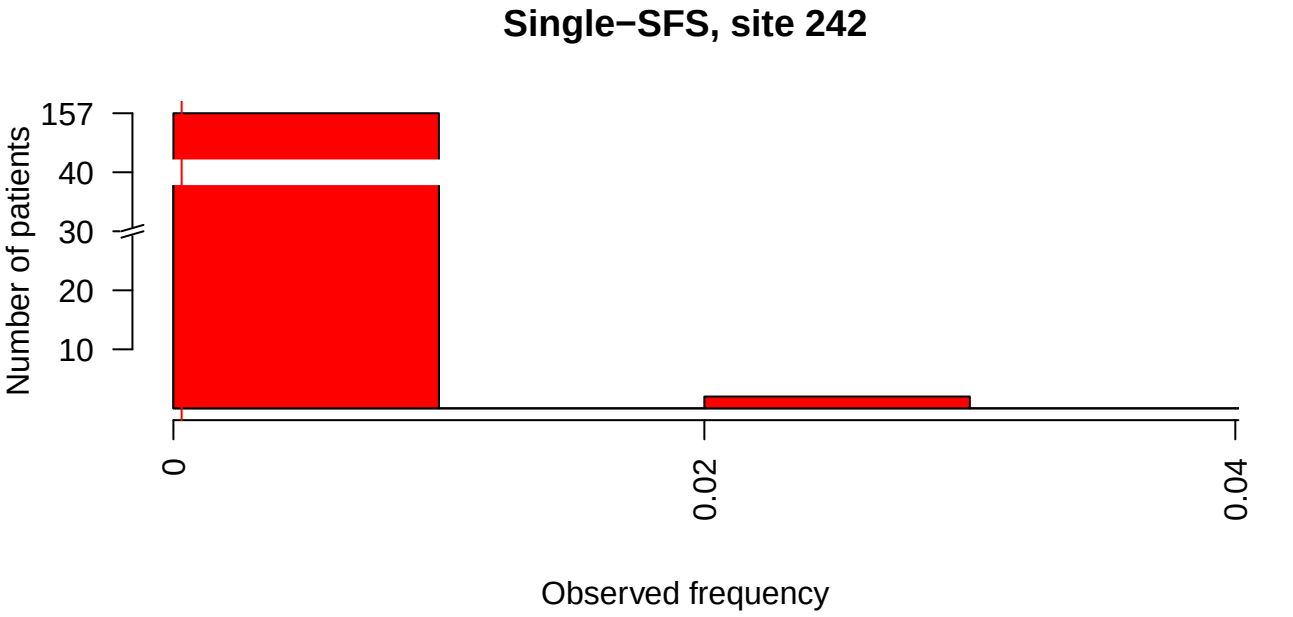

Simulated data, cost 0.2116
Number of patients
154
40
30
20
10
pvalue= 0.32
0
0.02
Observed frequency

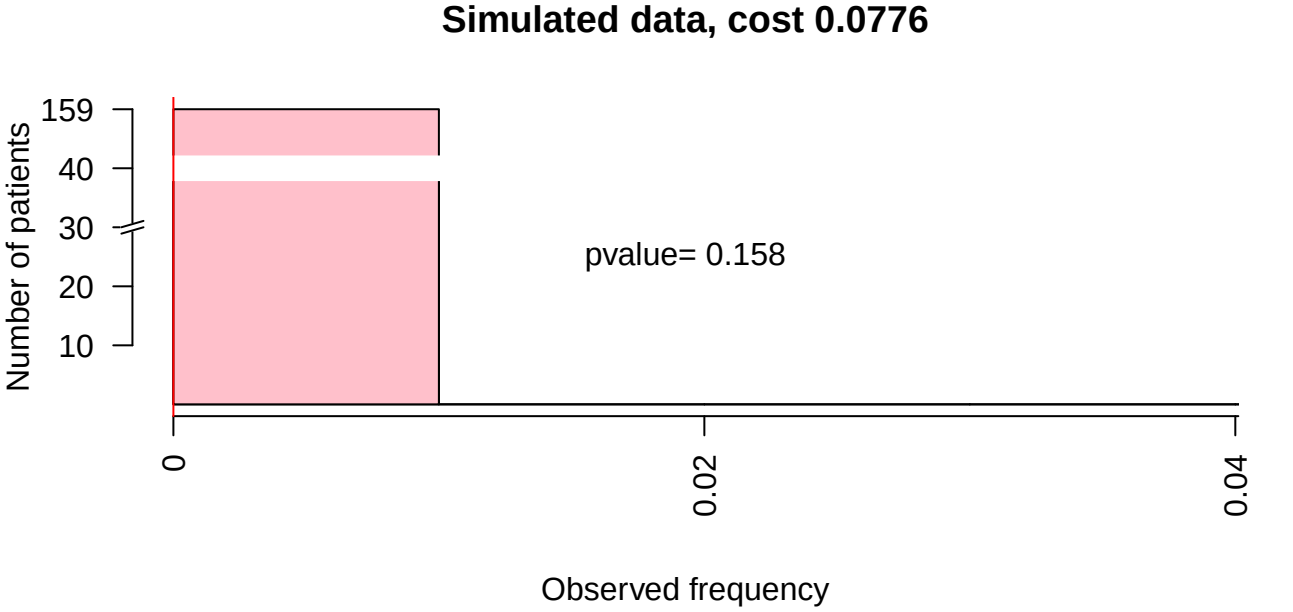

Single−SFS, site 240
Number of patients
135
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
Observed frequency

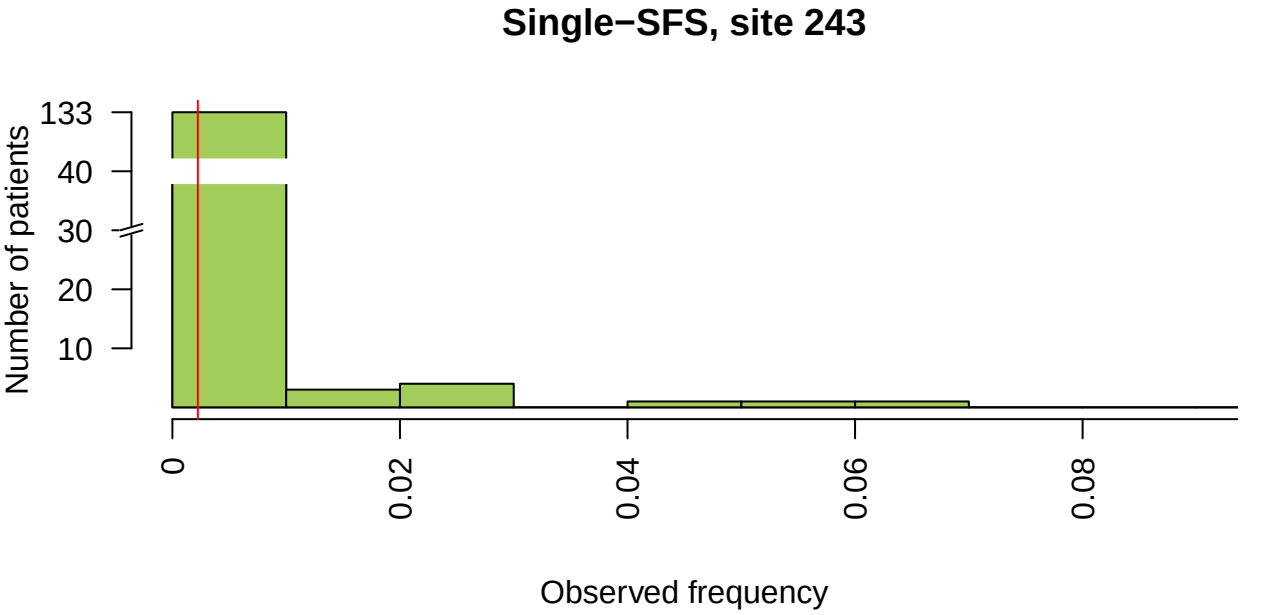

Simulated data, cost 0.0037
Number of patients
139
40
30
20
10
pvalue= 0.284
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
Observed frequency

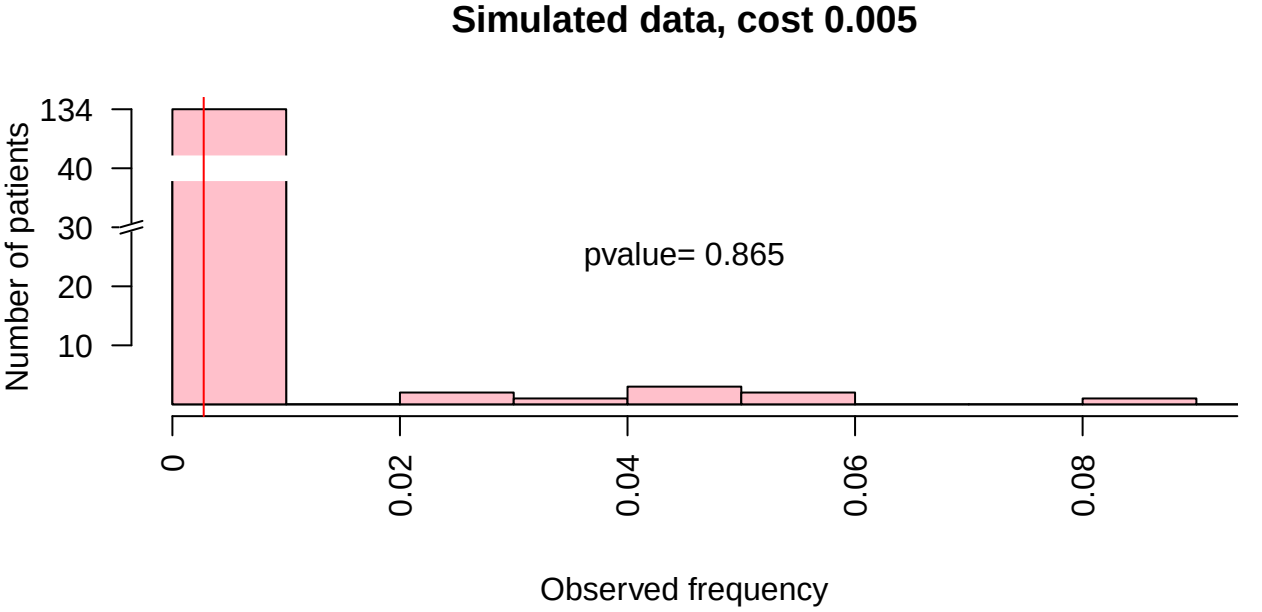

Single−SFS, site 241
Number of patients
157
40
30
20
10
0
0.02
Observed frequency

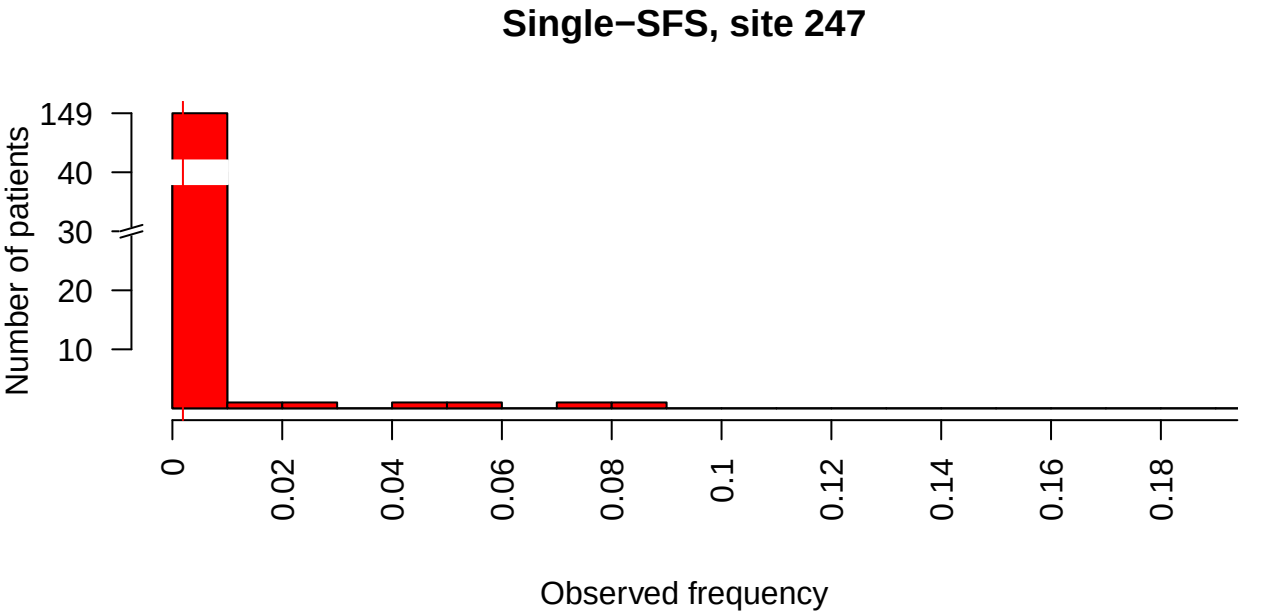

Simulated data, cost 0.0935
Number of patients
159
40
30
20
10
pvalue= 0.158
0
0.02
Observed frequency

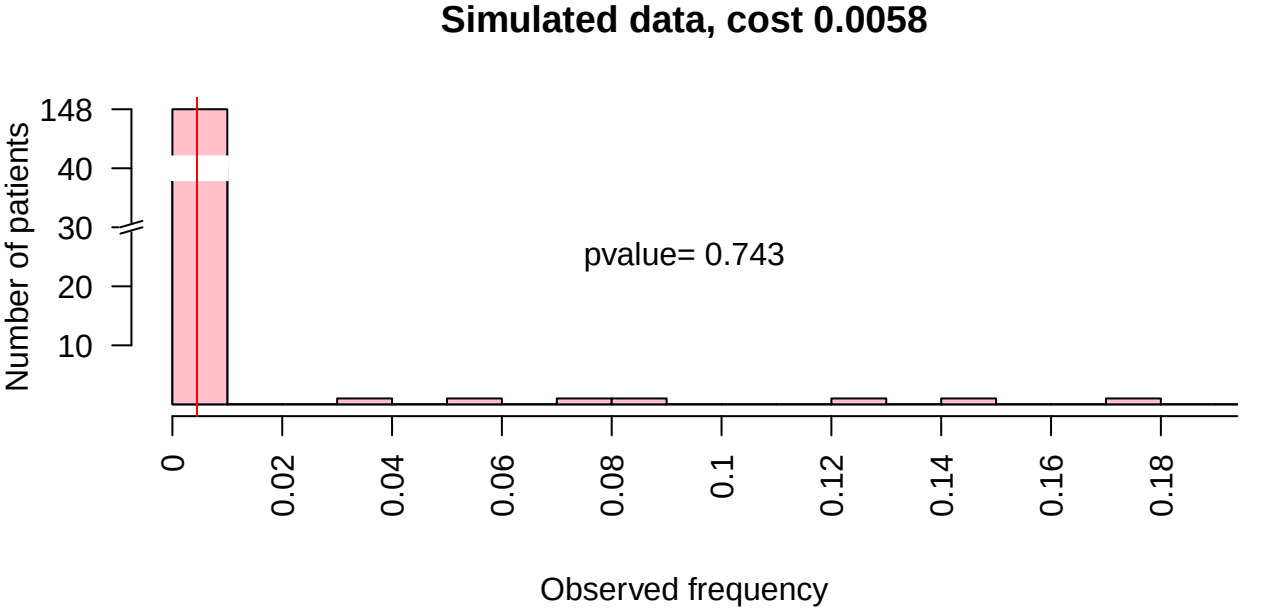

Single−SFS, site 242
Number of patients
157
40
30
20
10
0
0.02
0.04
Observed frequency

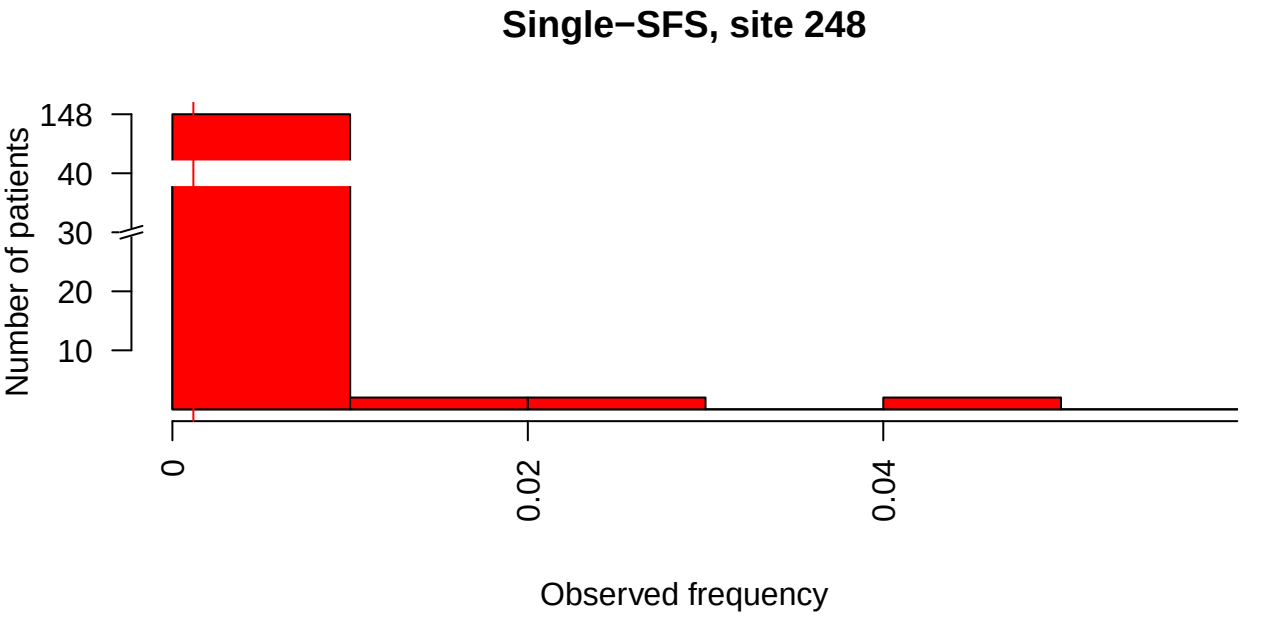

Simulated data, cost 0.0776
Number of patients
159
40
30
20
10
pvalue= 0.158
0
0.02
0.04
Observed frequency

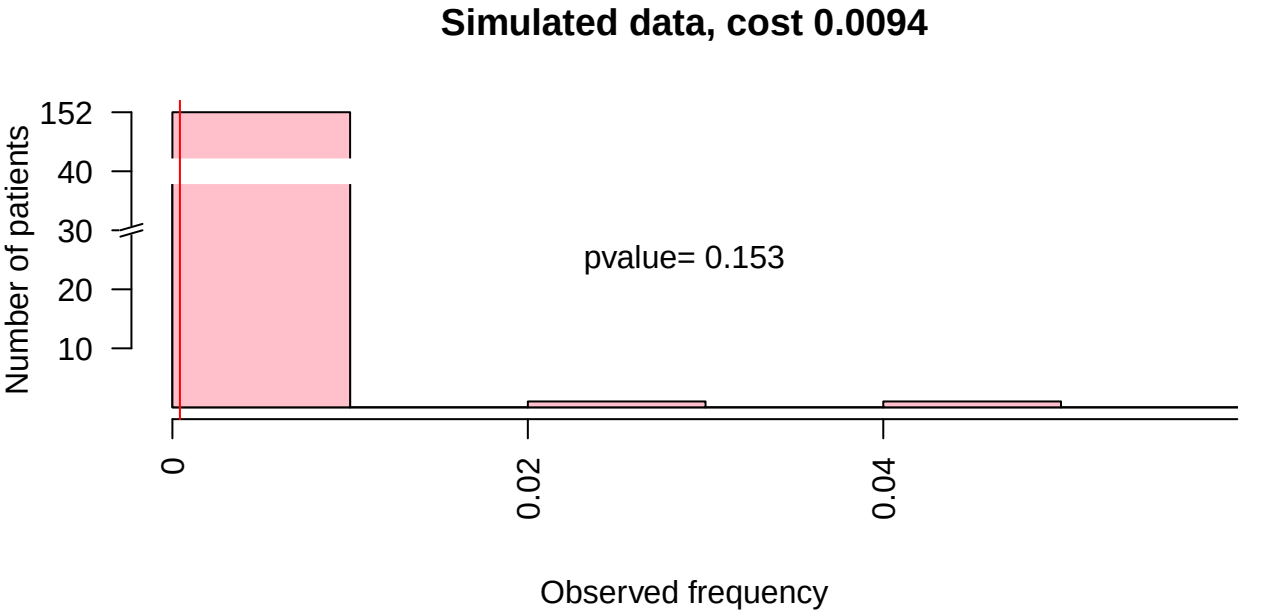

Single−SFS, site 243
Number of patients
133
40
30
20
10
0
0.02
0.04
0.06
0.08
Observed frequency

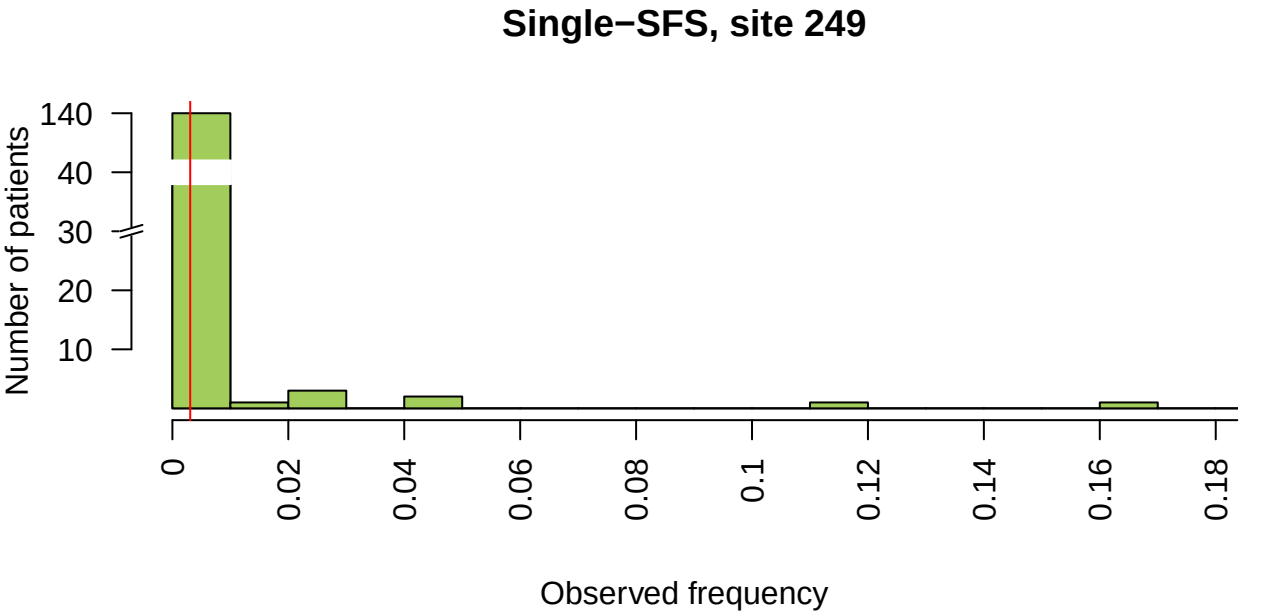

Simulated data, cost 0.005
Number of patients
134
40
30
20
10
pvalue= 0.865
0
0.02
0.04
0.06
0.08
Observed frequency

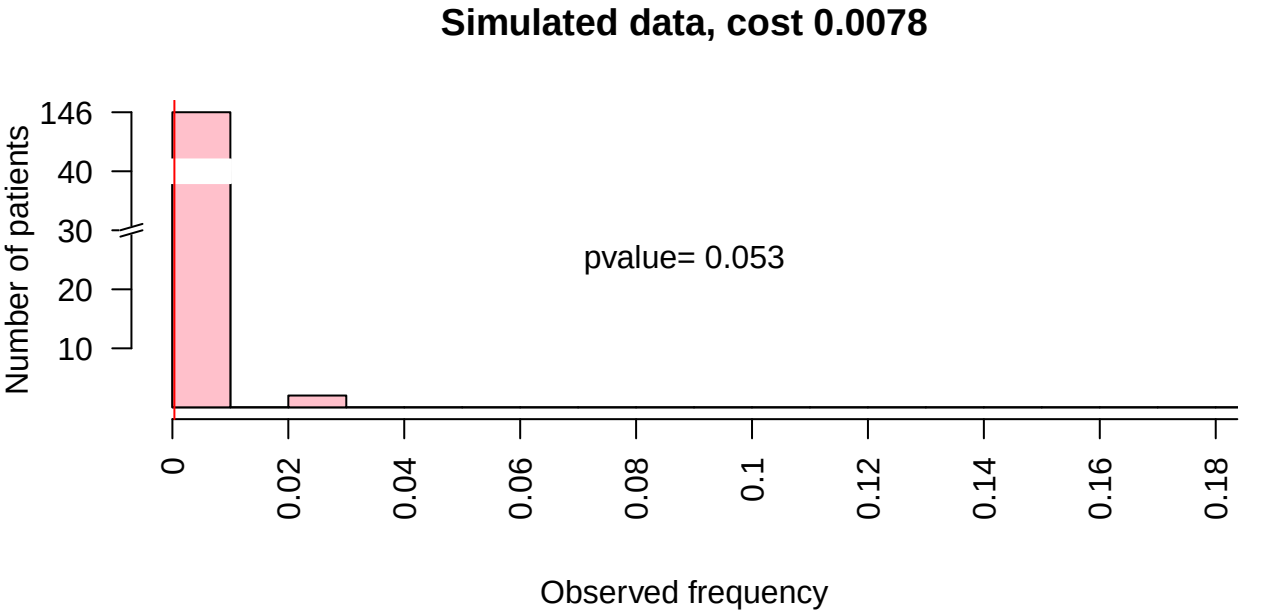

Single−SFS, site 247
Number of patients
149
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
Observed frequency

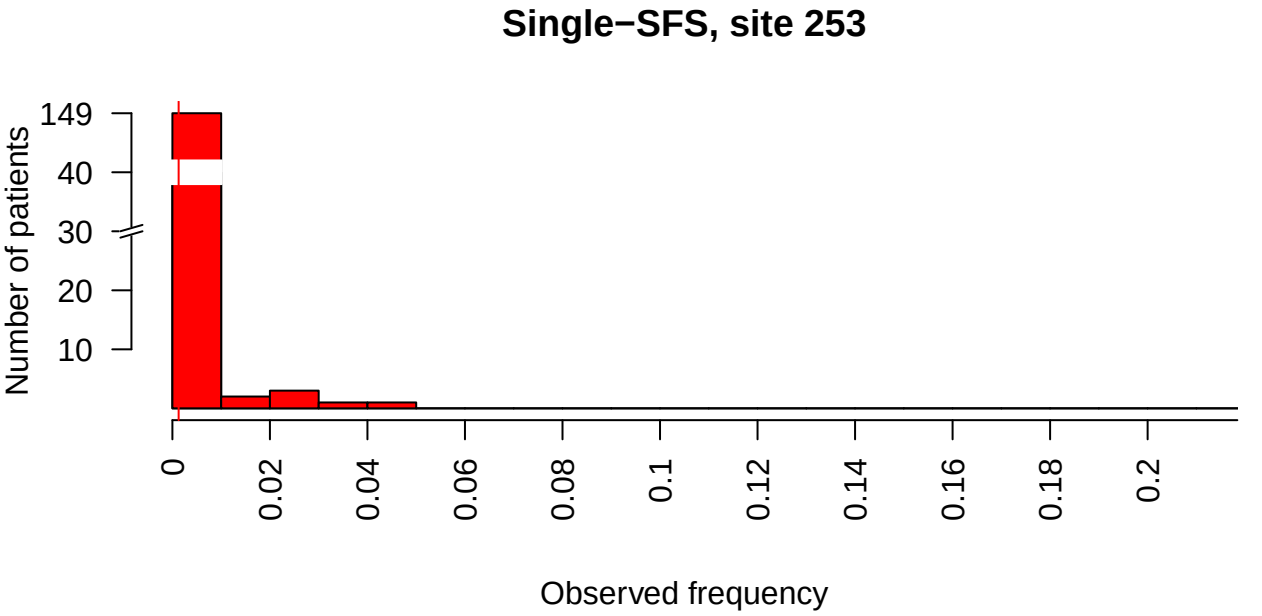

Simulated data, cost 0.0058
Number of patients
148
40
30
20
10
pvalue= 0.743
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
Observed frequency

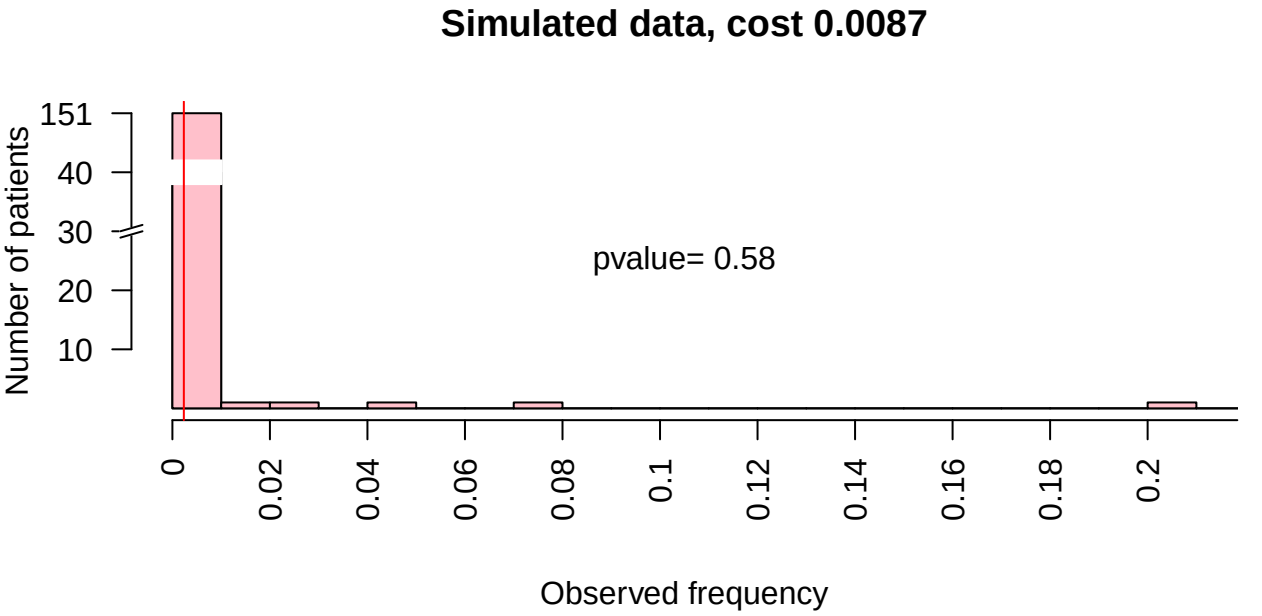

Single−SFS, site 248
Number of patients
148
40
30
20
10
0
0.02
0.04
Observed frequency

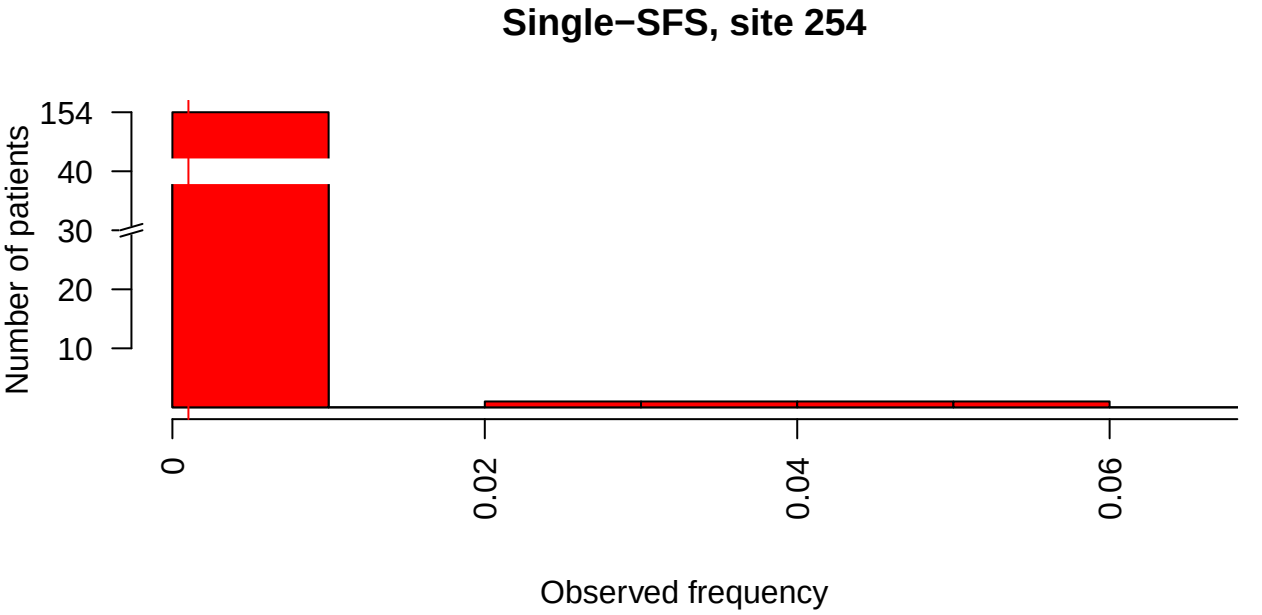

Simulated data, cost 0.0094
Number of patients
152
40
30
20
10
pvalue= 0.153
0
0.02
0.04
Observed frequency

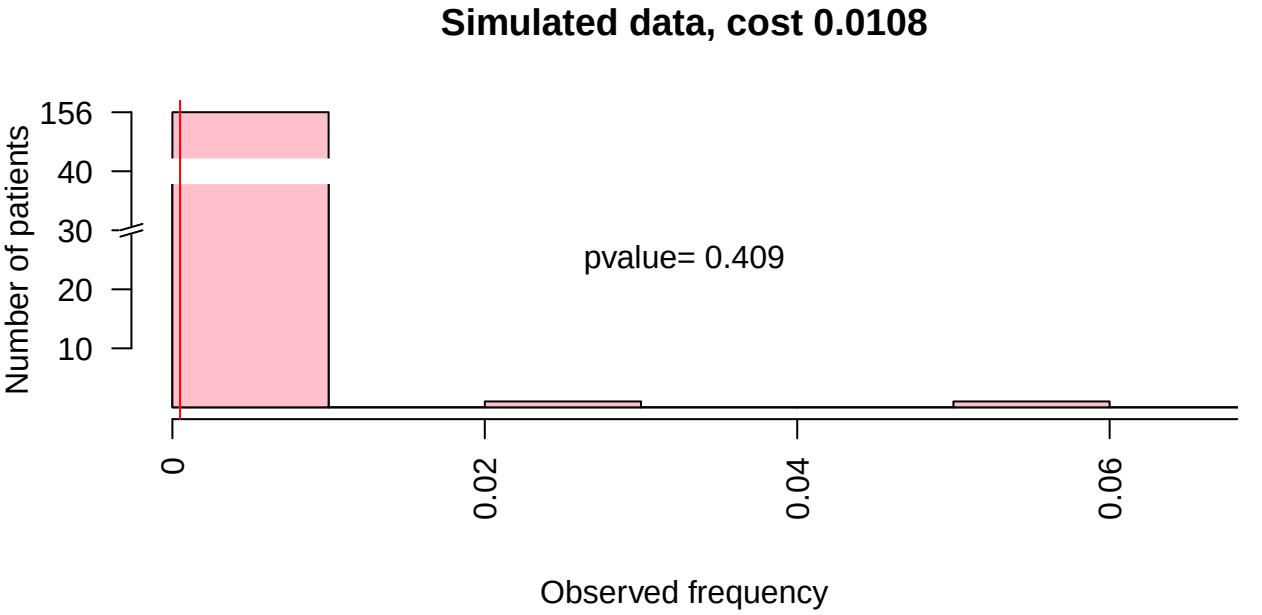

Single−SFS, site 249
Number of patients
140
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
Observed frequency

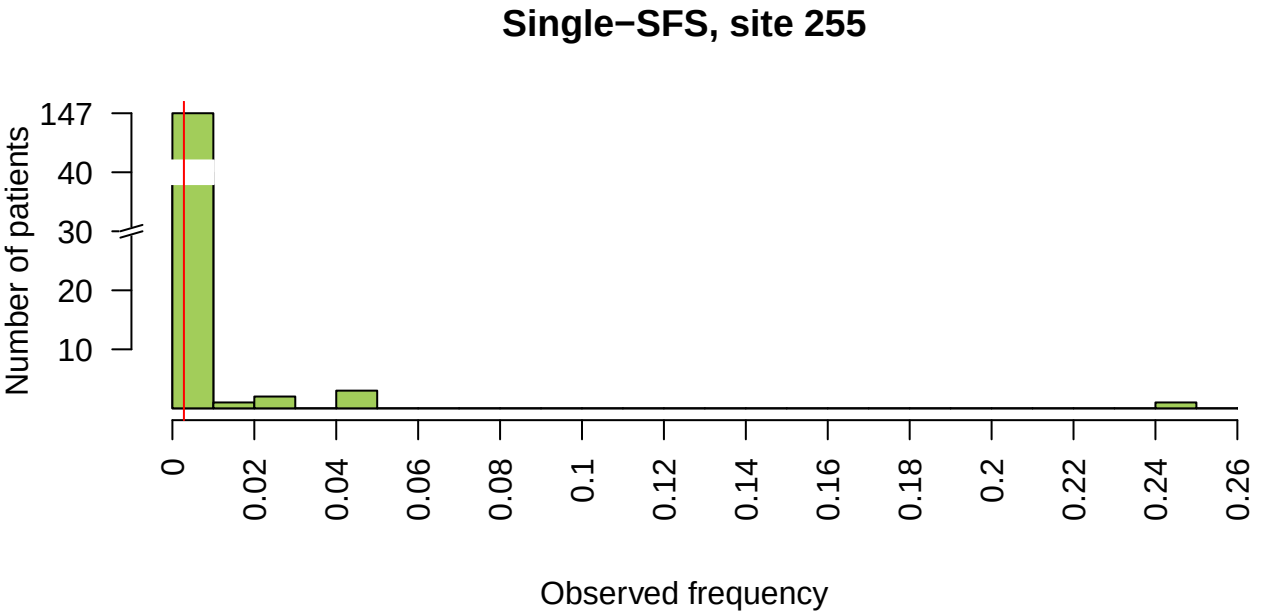

Simulated data, cost 0.0078
Number of patients
146
40
30
20
10
pvalue= 0.053
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
Observed frequency

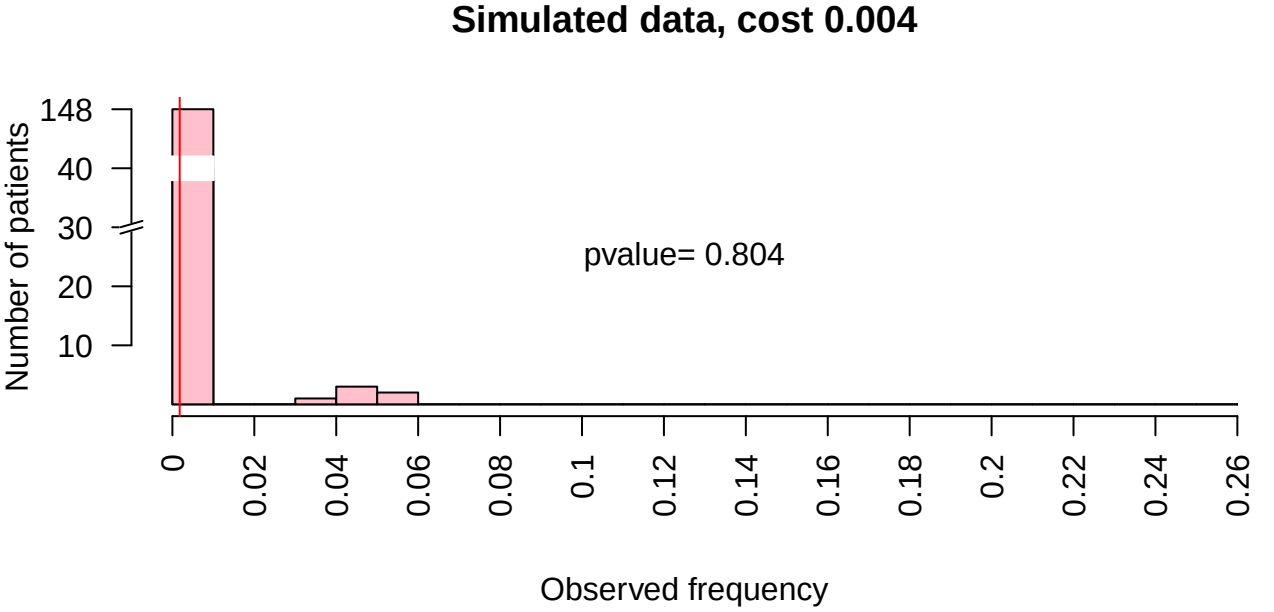

Single−SFS, site 253
Number of patients
149
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
Observed frequency

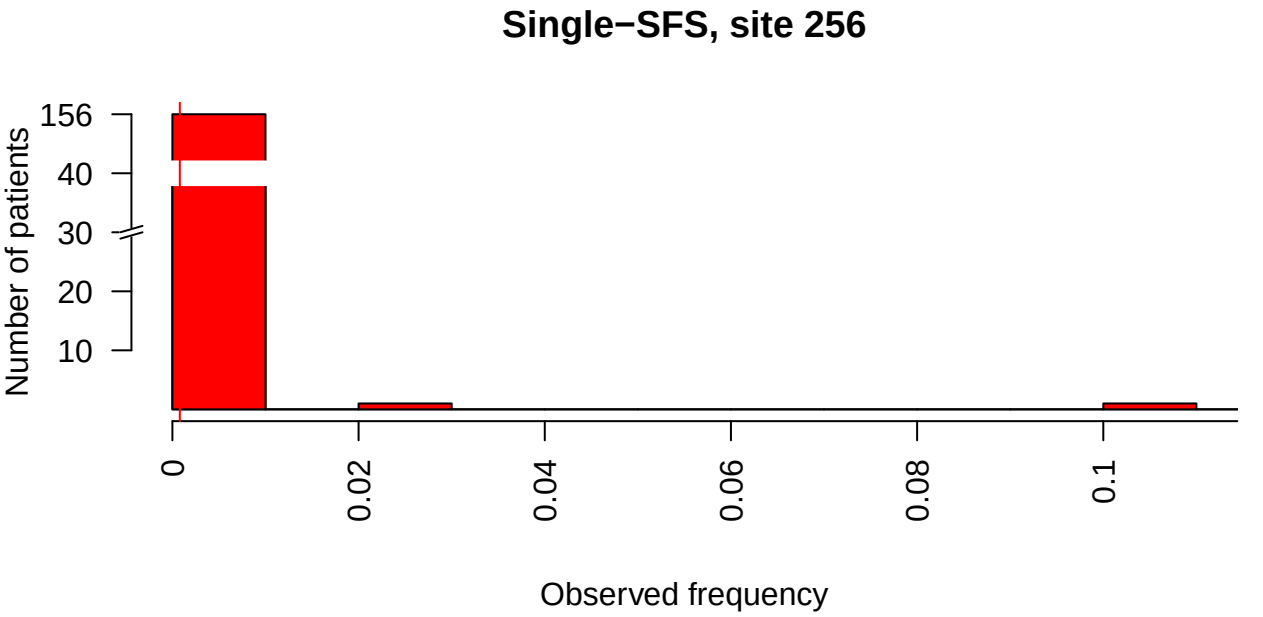

Simulated data, cost 0.0087
Number of patients
151
40
30
20
10
pvalue= 0.58
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
Observed frequency

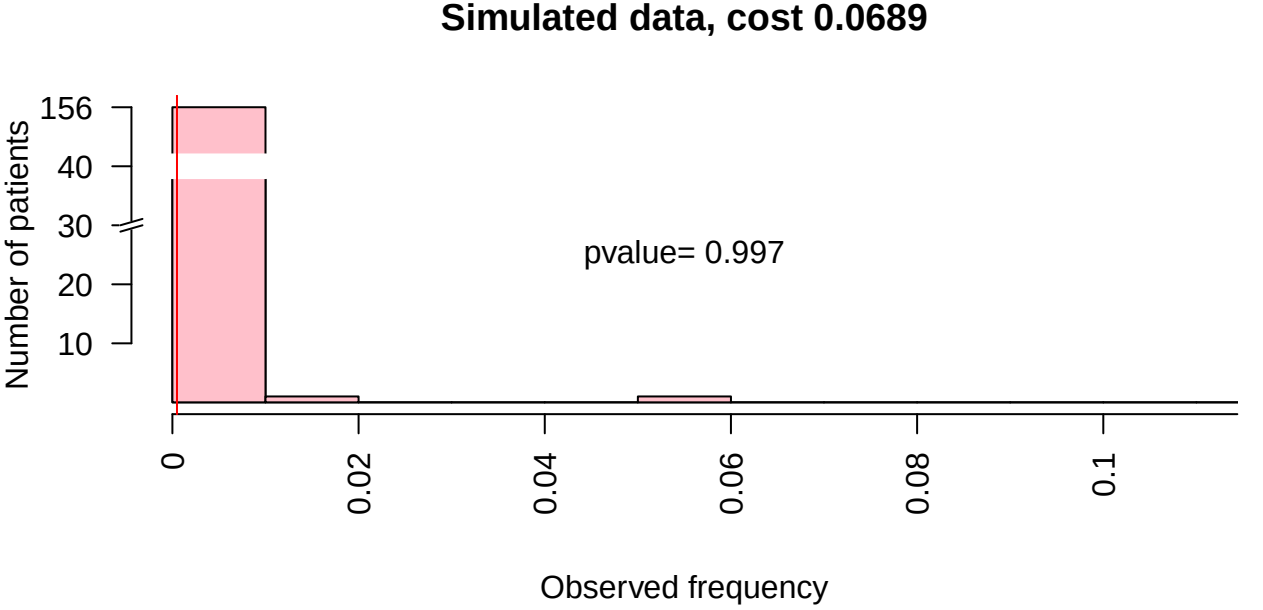

Single−SFS, site 254
Number of patients
154
40
30
20
10
0
0.02
0.04
0.06
Observed frequency

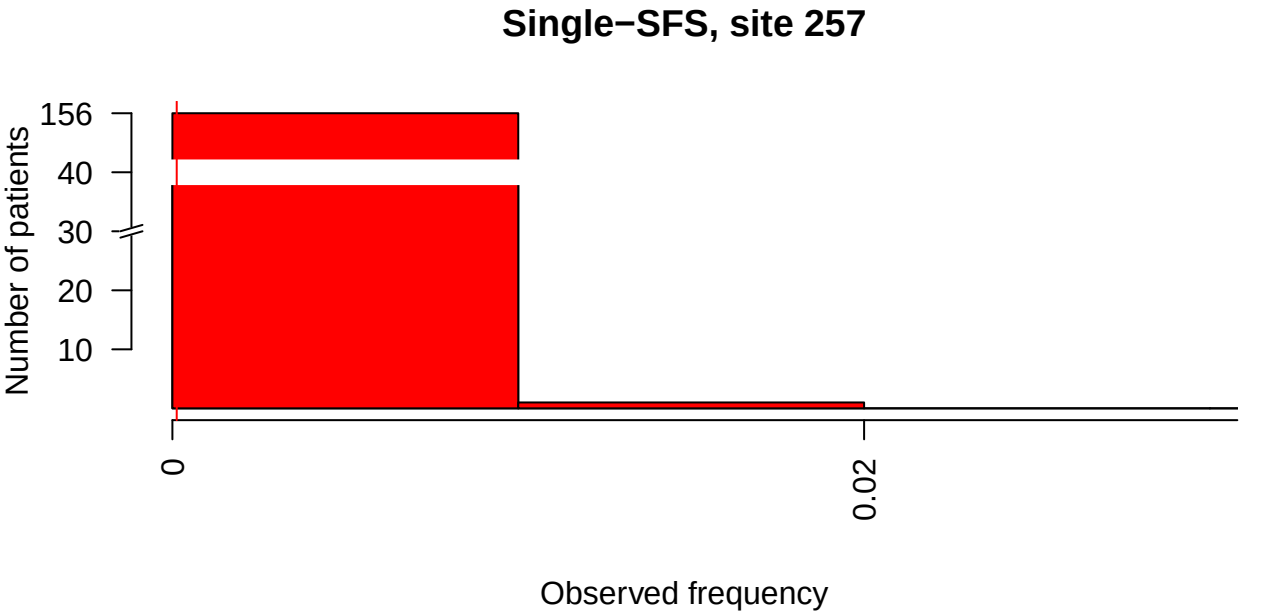

Simulated data, cost 0.0108
Number of patients
156
40
30
20
10
pvalue= 0.409
0
0.02
0.04
0.06
Observed frequency

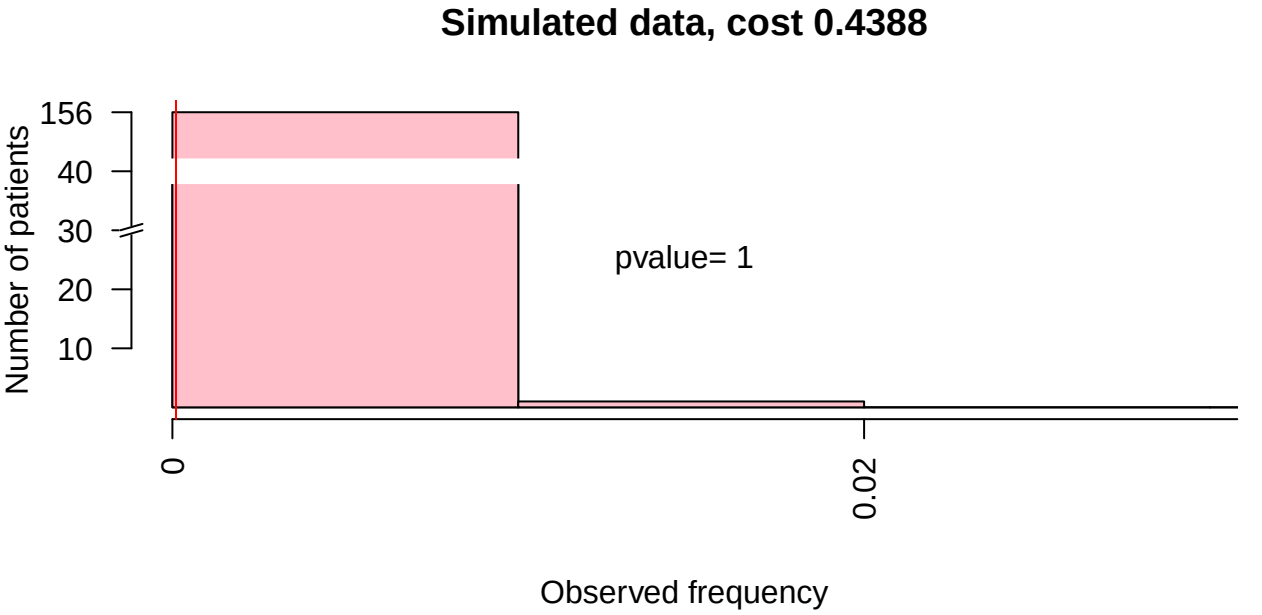

Single−SFS, site 255
Number of patients
147
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
0.24
0.26
Observed frequency

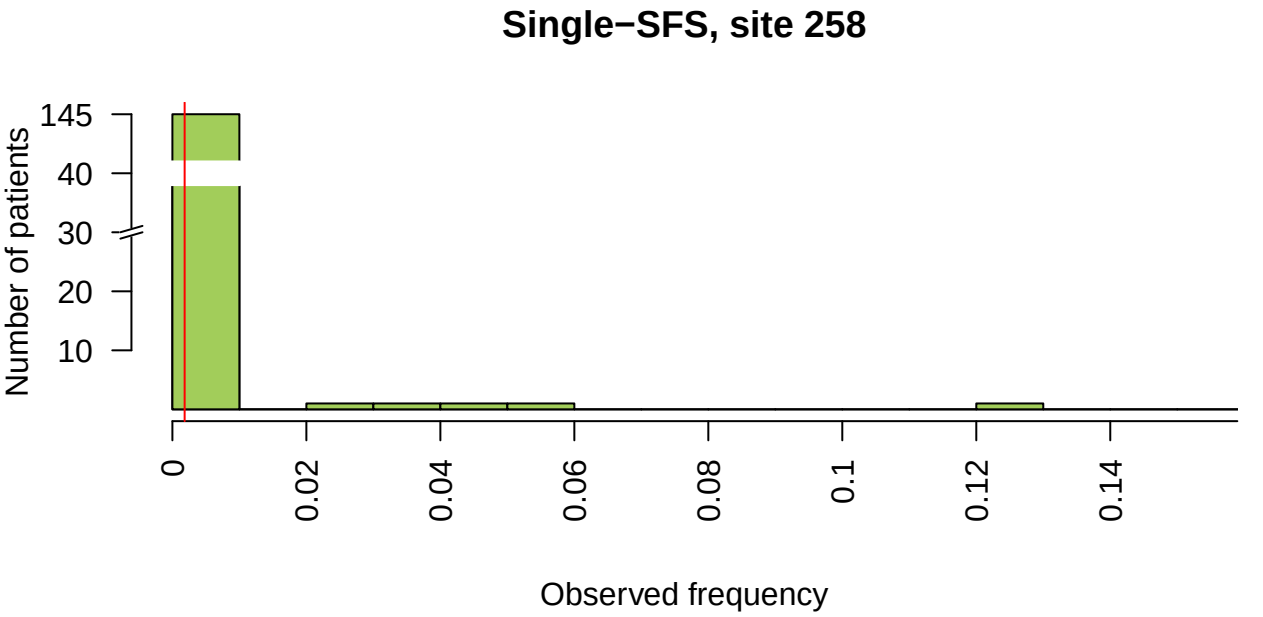

Simulated data, cost 0.004
Number of patients
148
40
30
20
10
pvalue= 0.804
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
0.24
0.26
Observed frequency

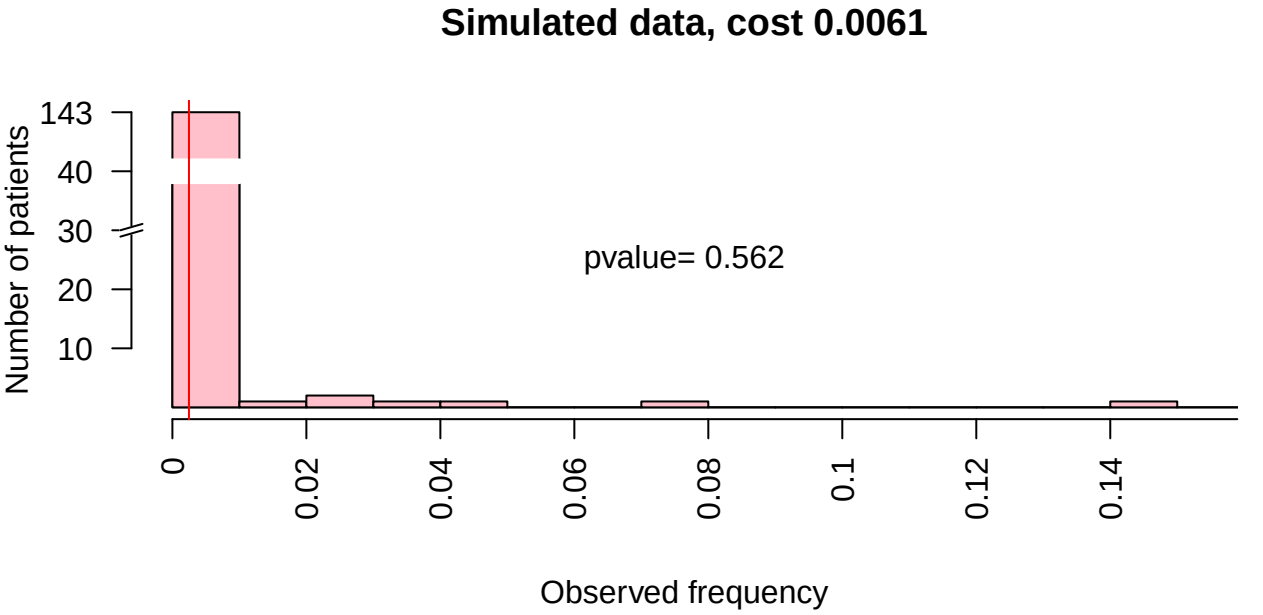

Single−SFS, site 256
Number of patients
156
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
Observed frequency

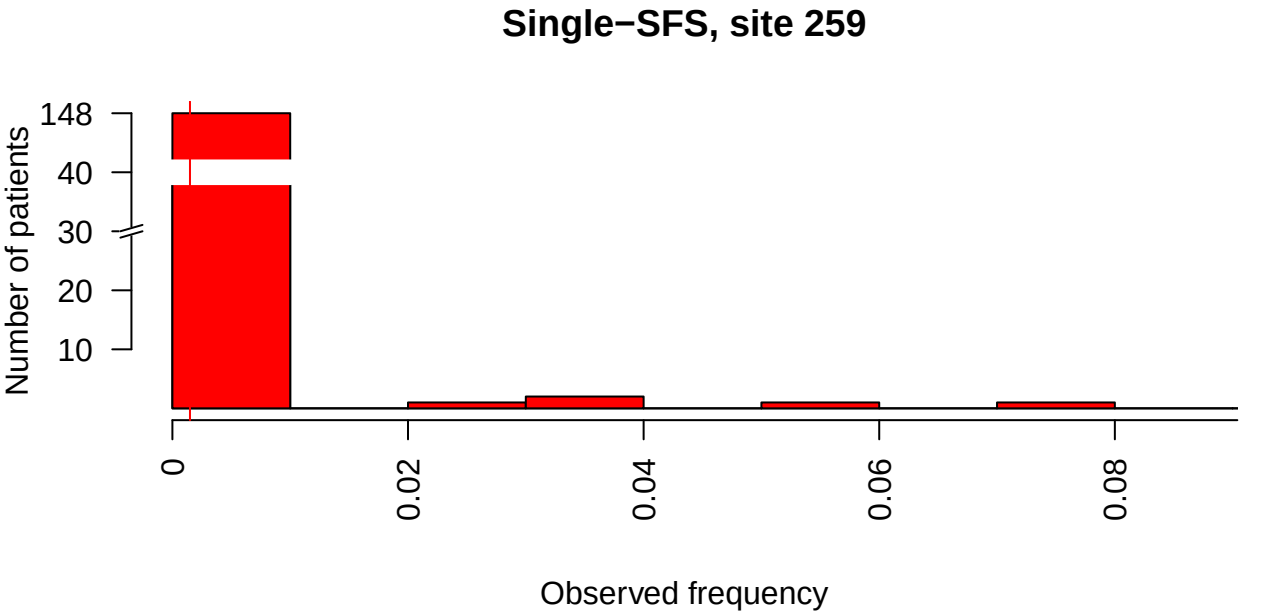

Simulated data, cost 0.0689
Number of patients
156
40
30
20
10
pvalue= 0.997
0
0.02
0.04
0.06
0.08
0.1
Observed frequency

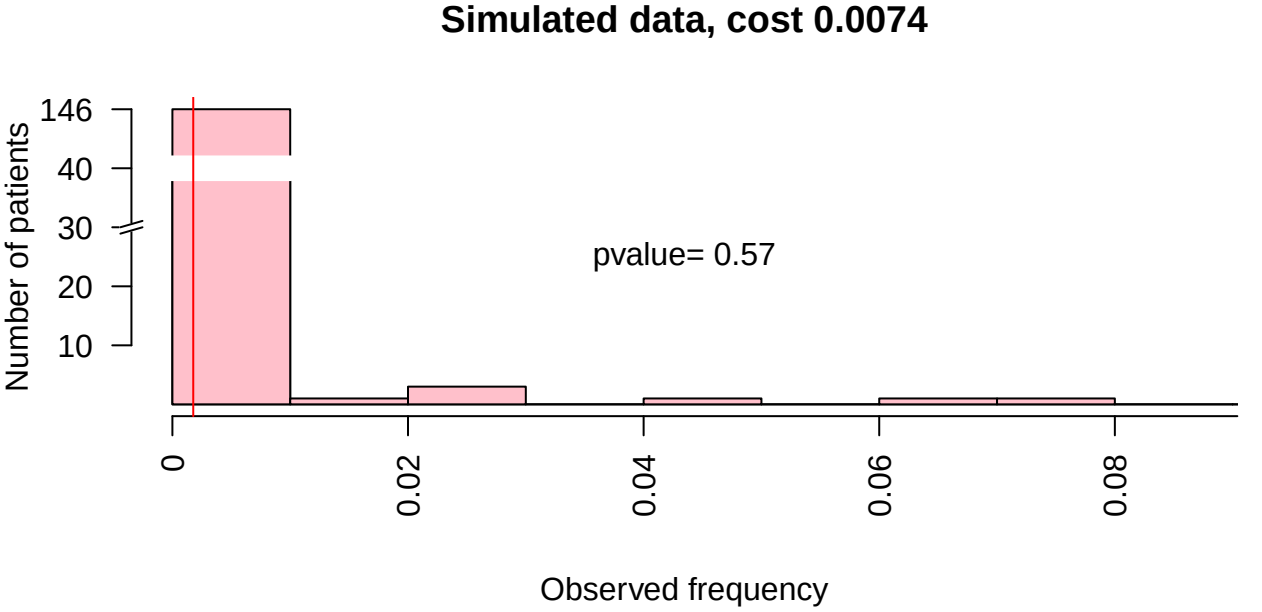

Single−SFS, site 257
Number of patients
156
40
30
20
10
0
0.02
Observed frequency

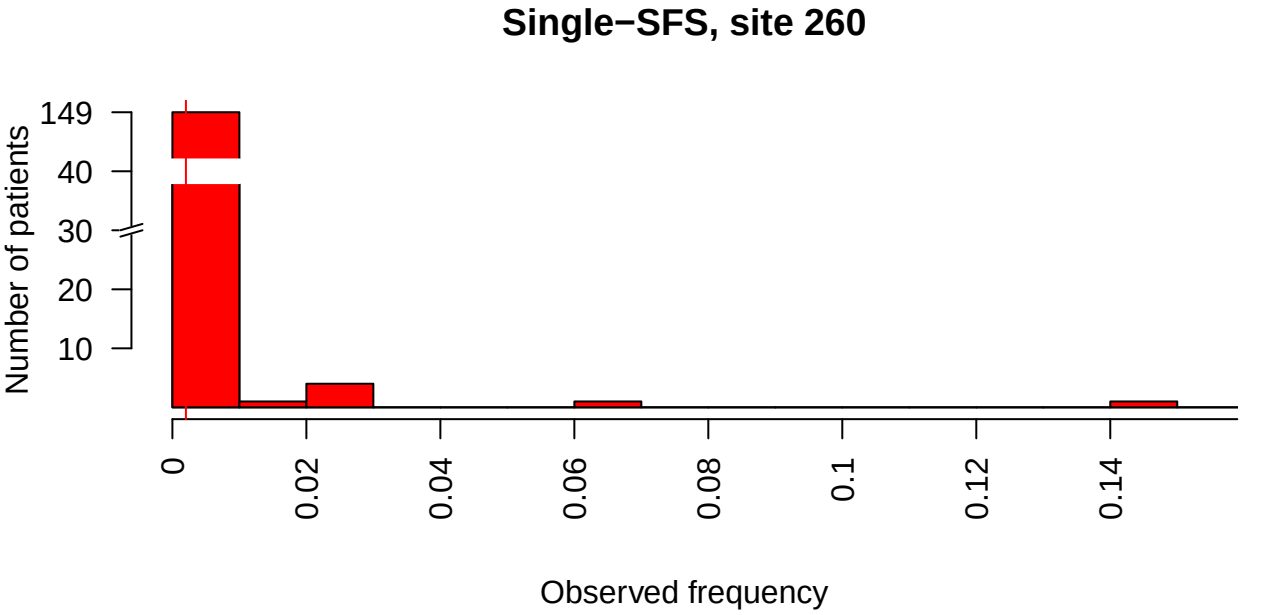

Simulated data, cost 0.4388
Number of patients
156
40
30
20
10
pvalue= 1
0
0.02
Observed frequency

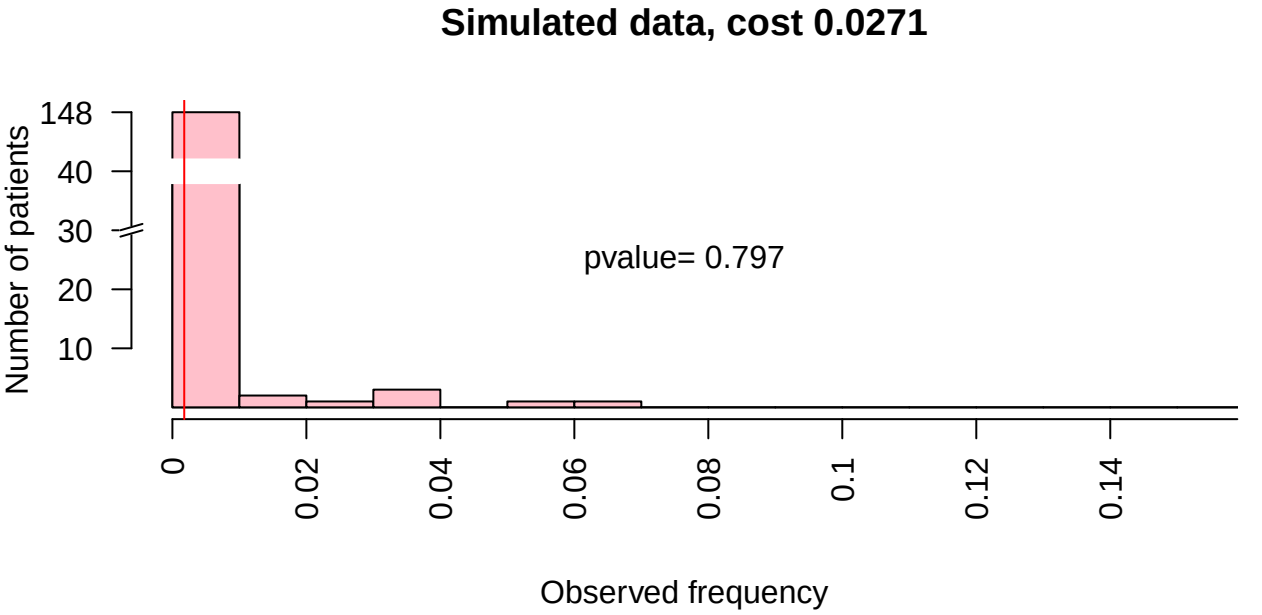

Single−SFS, site 258
Number of patients
145
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
Observed frequency

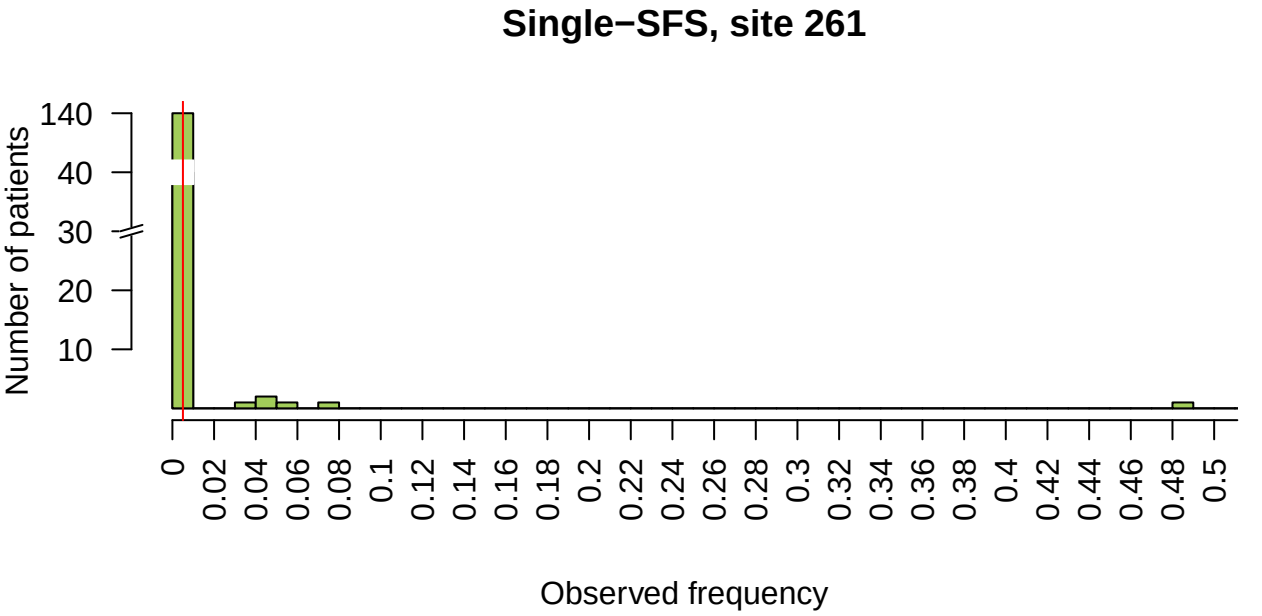

Simulated data, cost 0.0061
Number of patients
143
40
30
20
10
pvalue= 0.562
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
Observed frequency

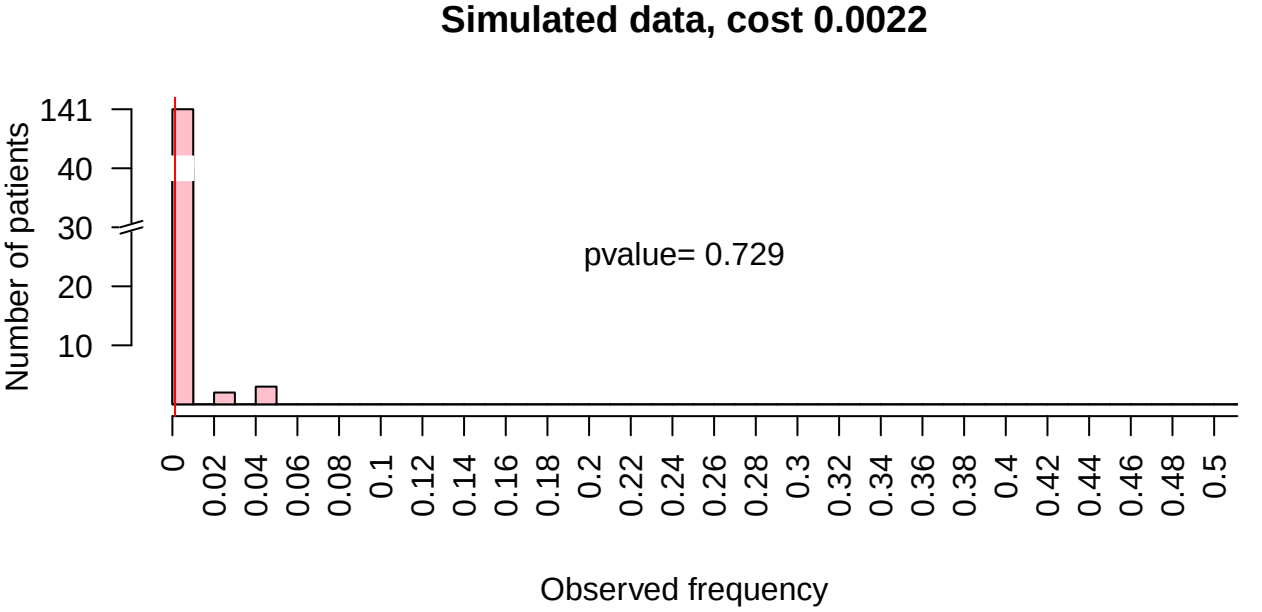

Single−SFS, site 259
Number of patients
148
40
30
20
10
0
0.02
0.04
0.06
0.08
Observed frequency

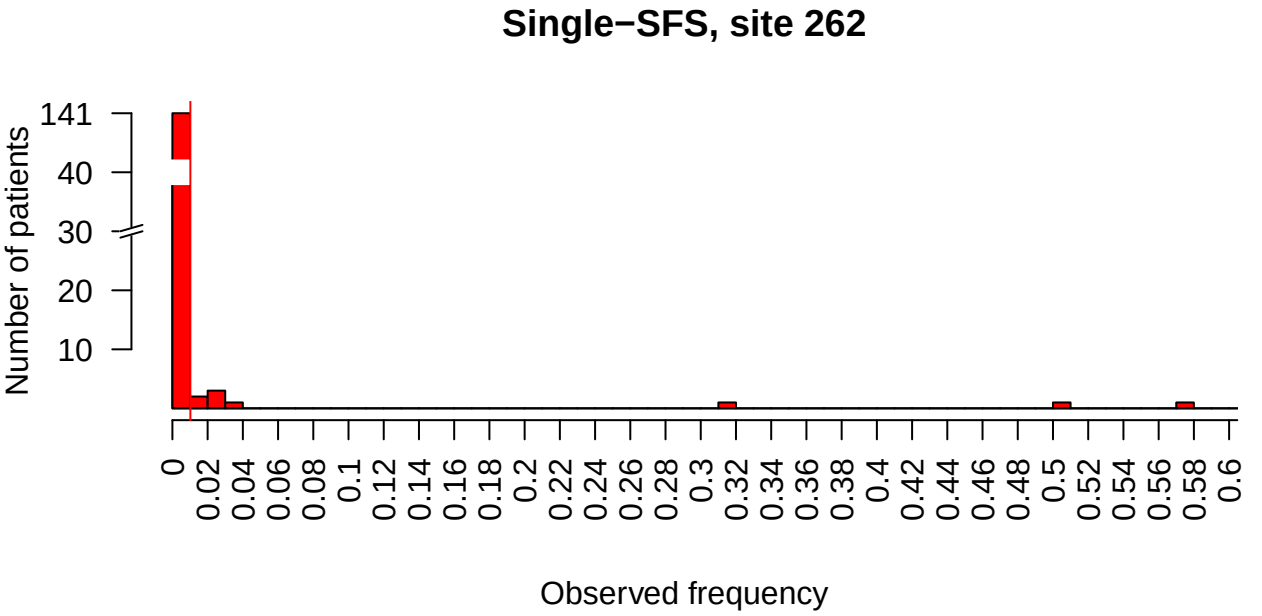

Simulated data, cost 0.0074
Number of patients
146
40
30
20
10
pvalue= 0.57
0
0.02
0.04
0.06
0.08
Observed frequency

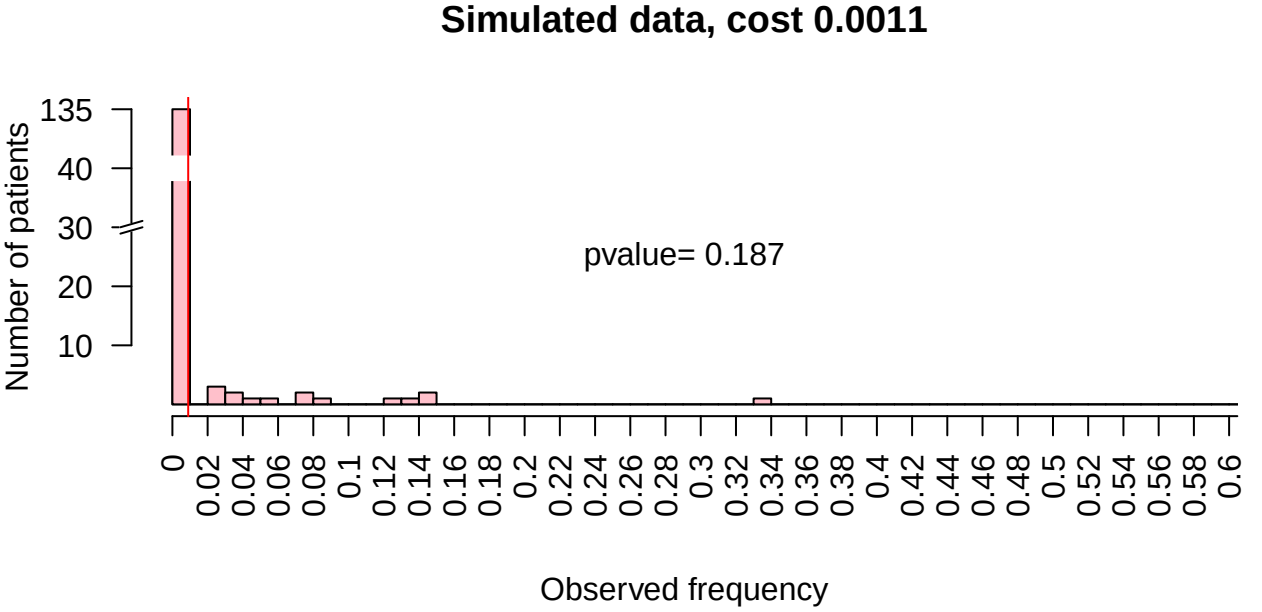

Single−SFS, site 260
Number of patients
149
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
Observed frequency

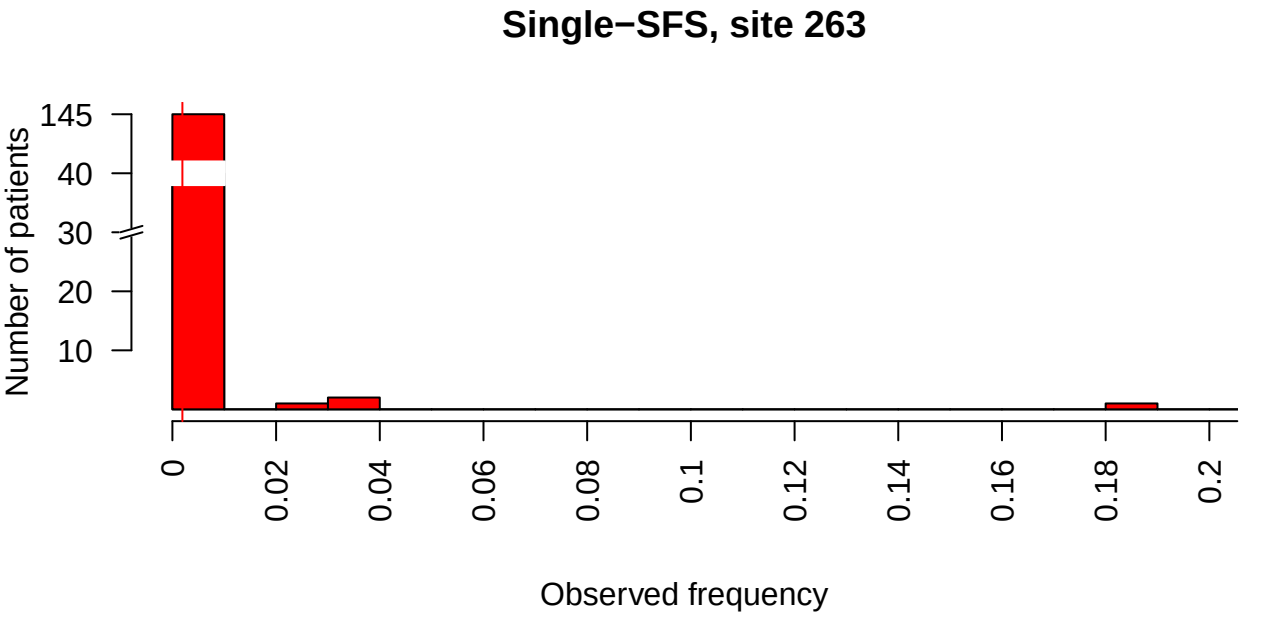

Simulated data, cost 0.0271
Number of patients
148
40
30
20
10
pvalue= 0.797
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
Observed frequency

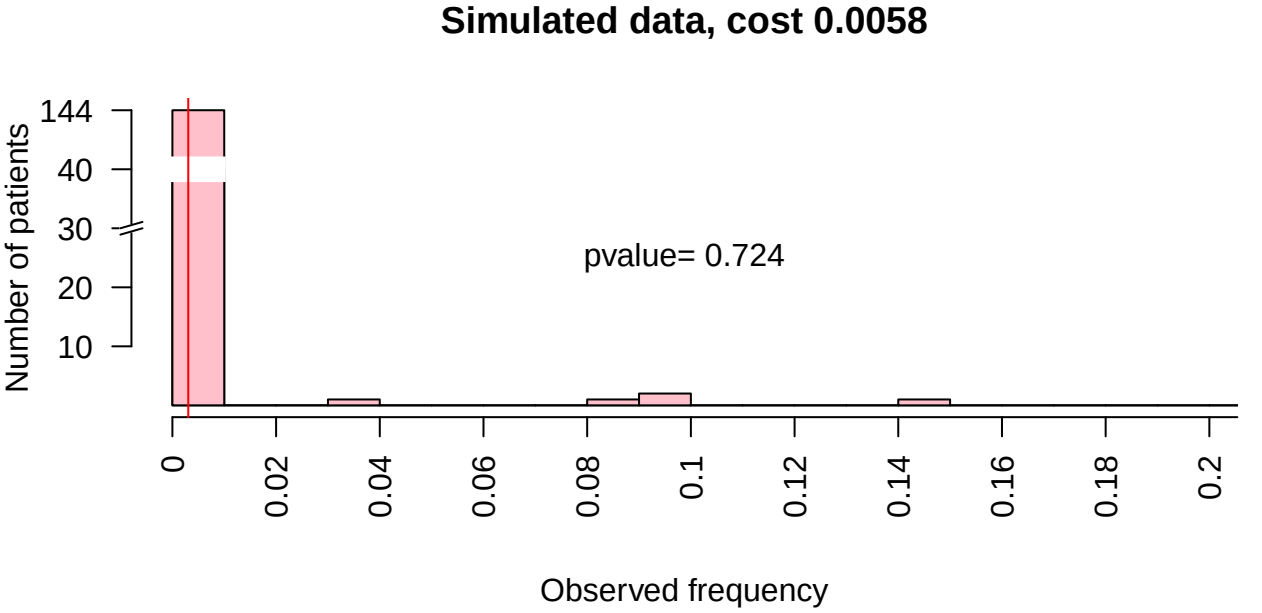

Single−SFS, site 261
Number of patients
140
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
0.24
0.26
0.28
0.3
0.32
0.34
0.36
0.38
0.4
0.42
0.44
0.46
0.48
0.5
Observed frequency

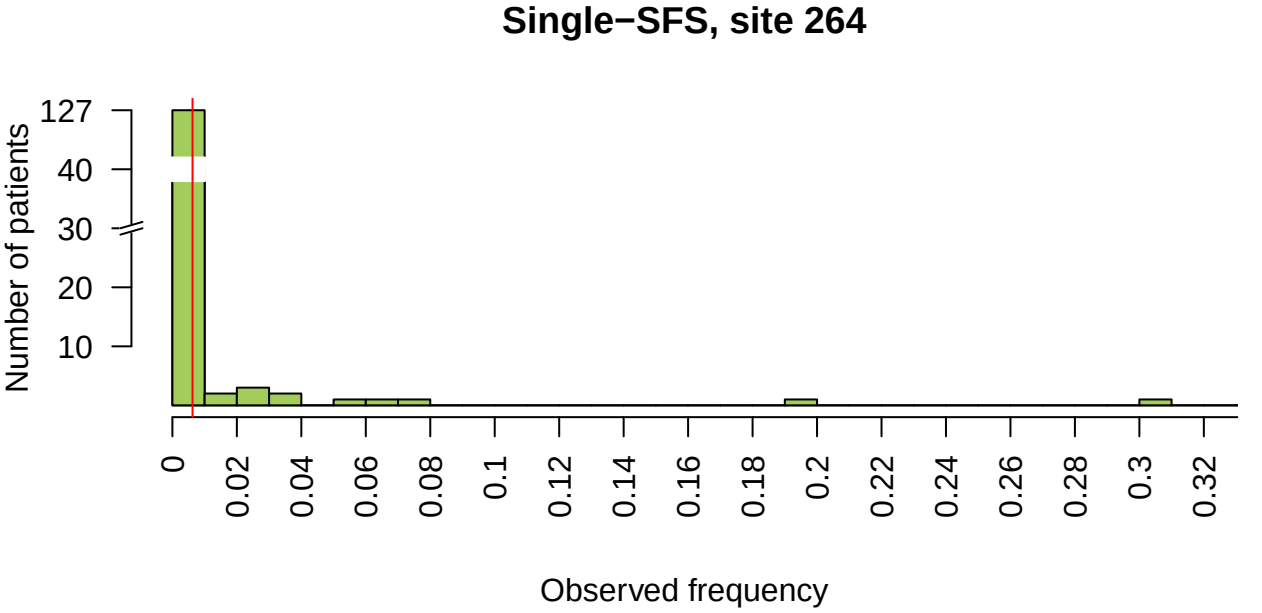

Simulated data, cost 0.0022
Number of patients
141
40
30
20
10
pvalue= 0.729
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
0.24
0.26
0.28
0.3
0.32
0.34
0.36
0.38
0.4
0.42
0.44
0.46
0.48
0.5
Observed frequency

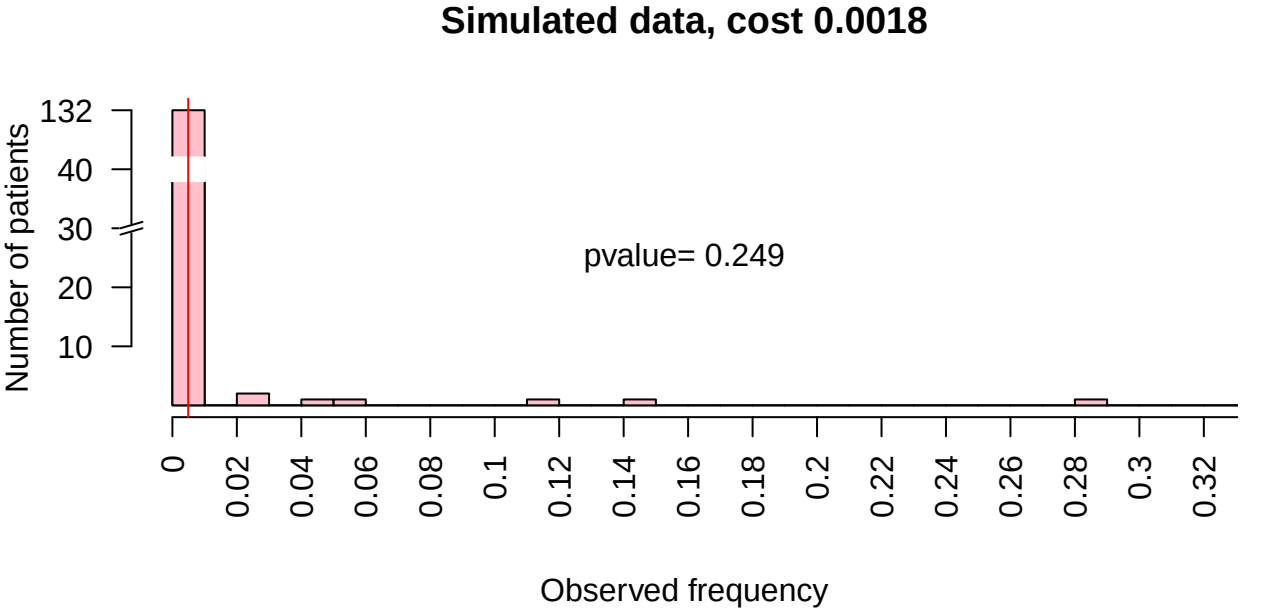

Single−SFS, site 262
Number of patients
141
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
0.24
0.26
0.28
0.3
0.32
0.34
0.36
0.38
0.4
0.42
0.44
0.46
0.48
0.5
0.52
0.54
0.56
0.58
0.6
Observed frequency

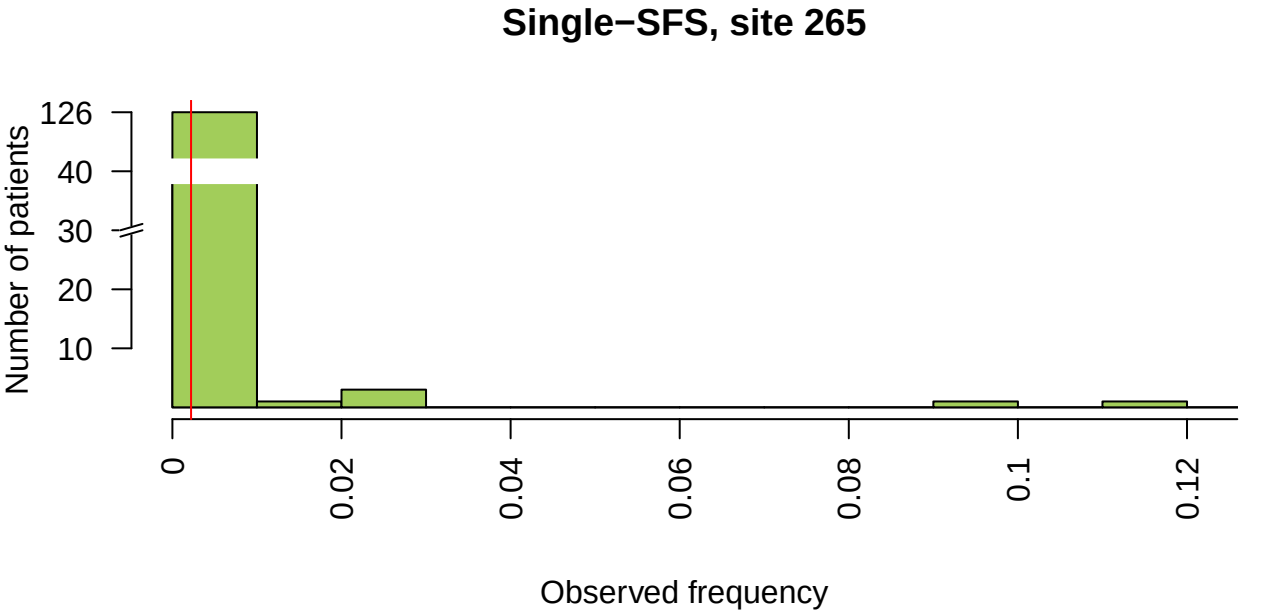

Simulated data, cost 0.0011
Number of patients
135
40
30
20
10
pvalue= 0.187
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
0.24
0.26
0.28
0.3
0.32
0.34
0.36
0.38
0.4
0.42
0.44
0.46
0.48
0.5
0.52
0.54
0.56
0.58
0.6
Observed frequency

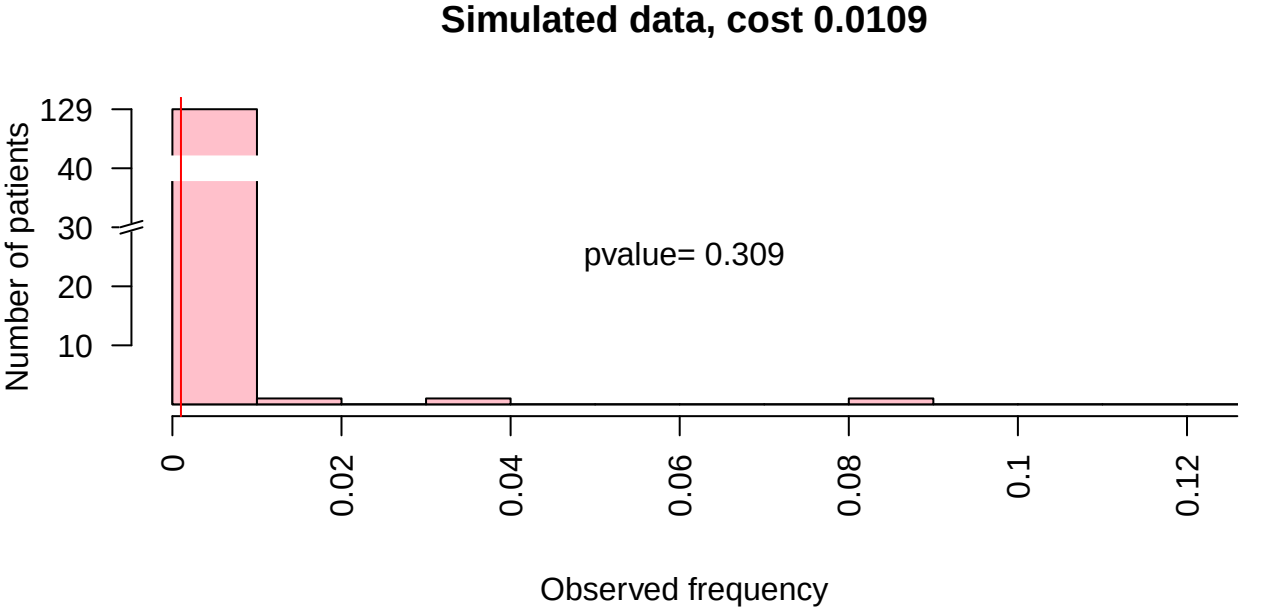

Single−SFS, site 263
Number of patients
145
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
Observed frequency

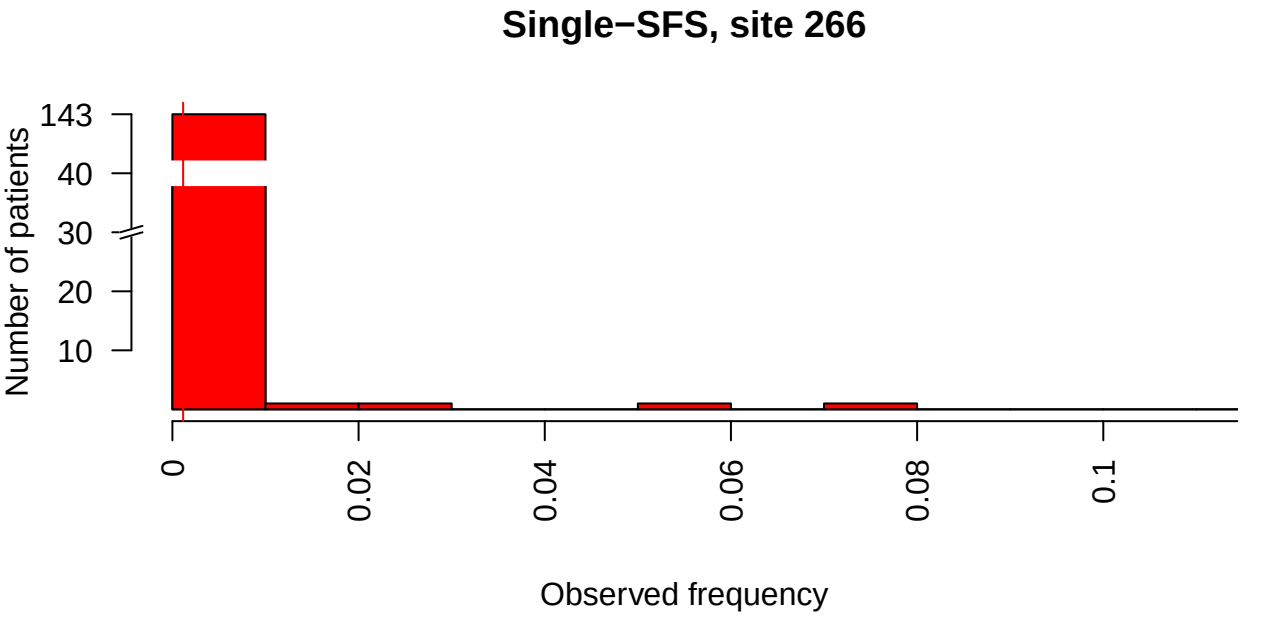

Simulated data, cost 0.0058
Number of patients
144
40
30
20
10
pvalue= 0.724
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
Observed frequency

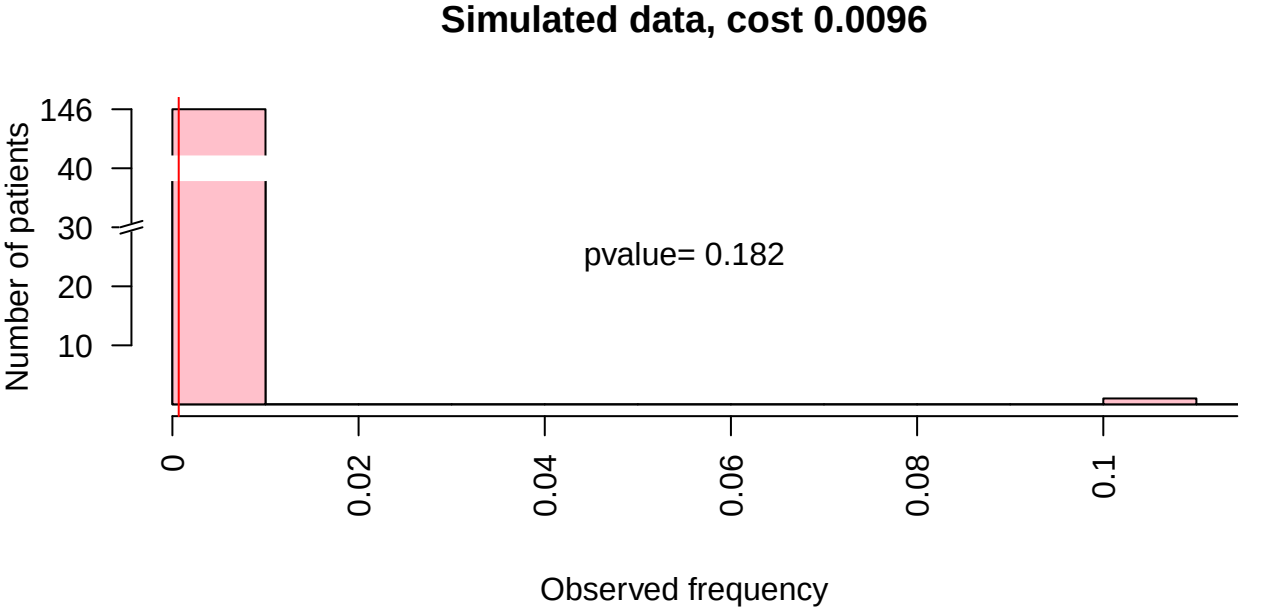

Single−SFS, site 264
Number of patients
127
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
0.24
0.26
0.28
0.3
0.32
Observed frequency

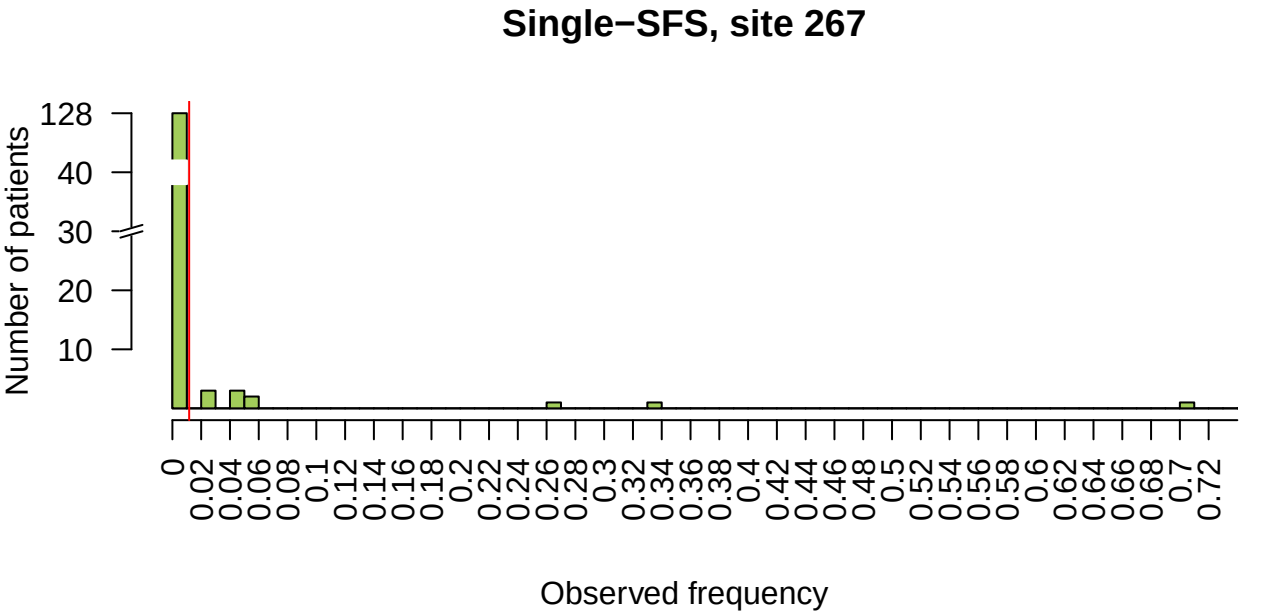

Simulated data, cost 0.0018
Number of patients
132
40
30
20
10
pvalue= 0.249
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
0.24
0.26
0.28
0.3
0.32
Observed frequency

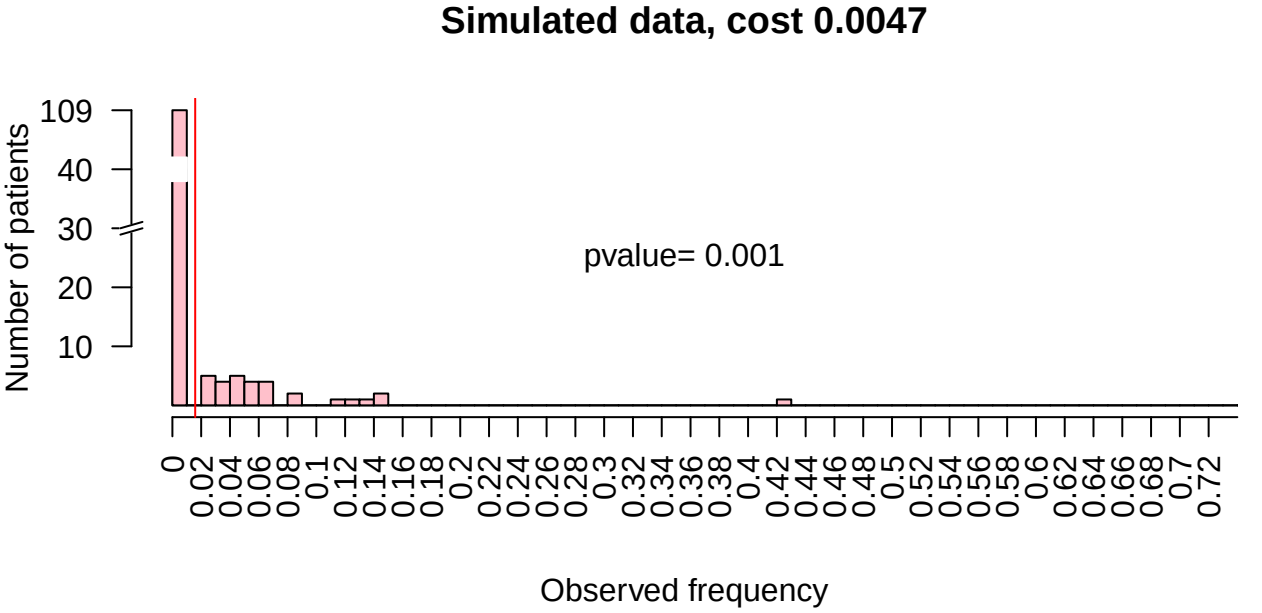

Single−SFS, site 265
Number of patients
126
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
Observed frequency

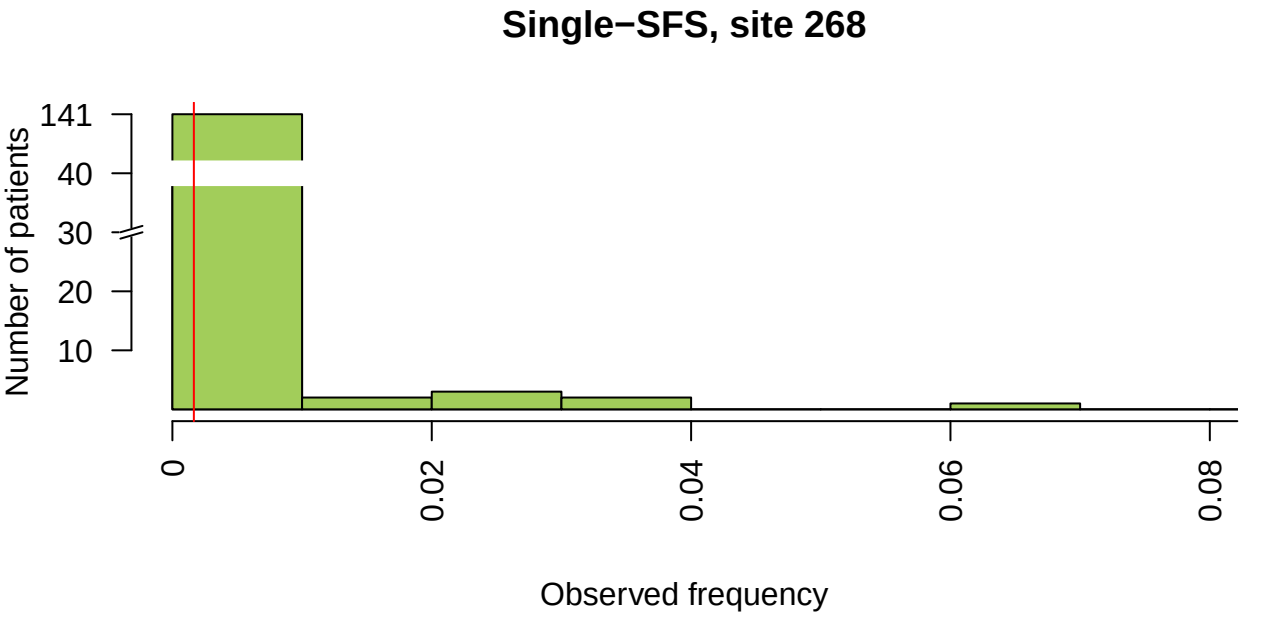

Simulated data, cost 0.0109
Number of patients
129
40
30
20
10
pvalue= 0.309
0
0.02
0.04
0.06
0.08
0.1
0.12
Observed frequency

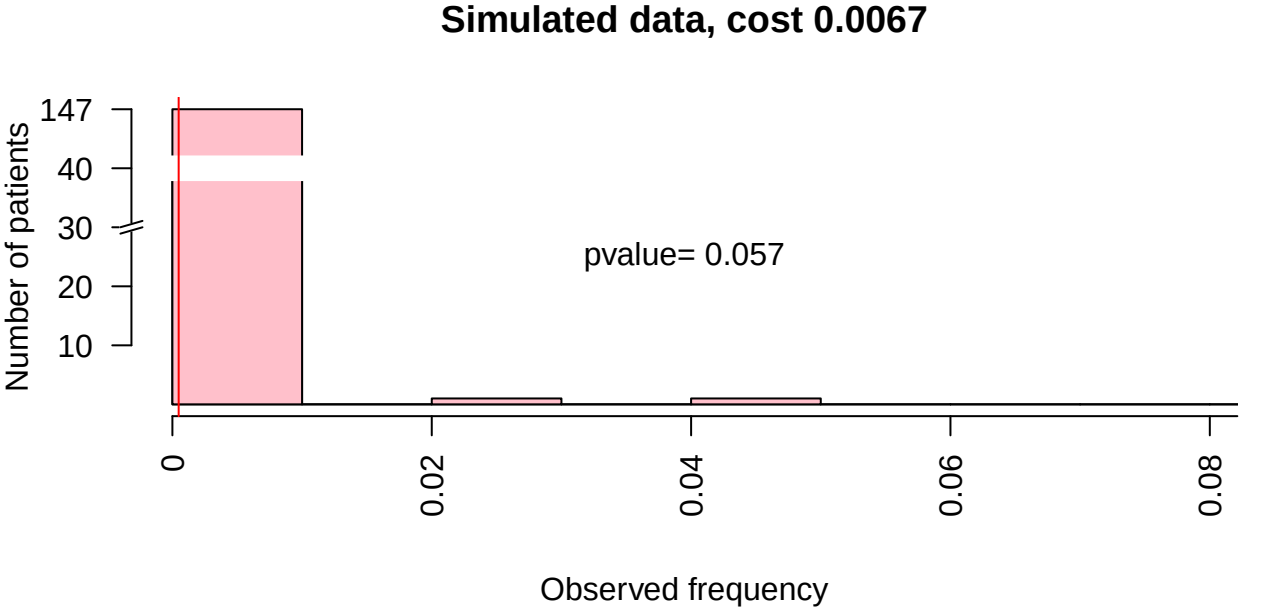

Single−SFS, site 266
Number of patients
143
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
Observed frequency

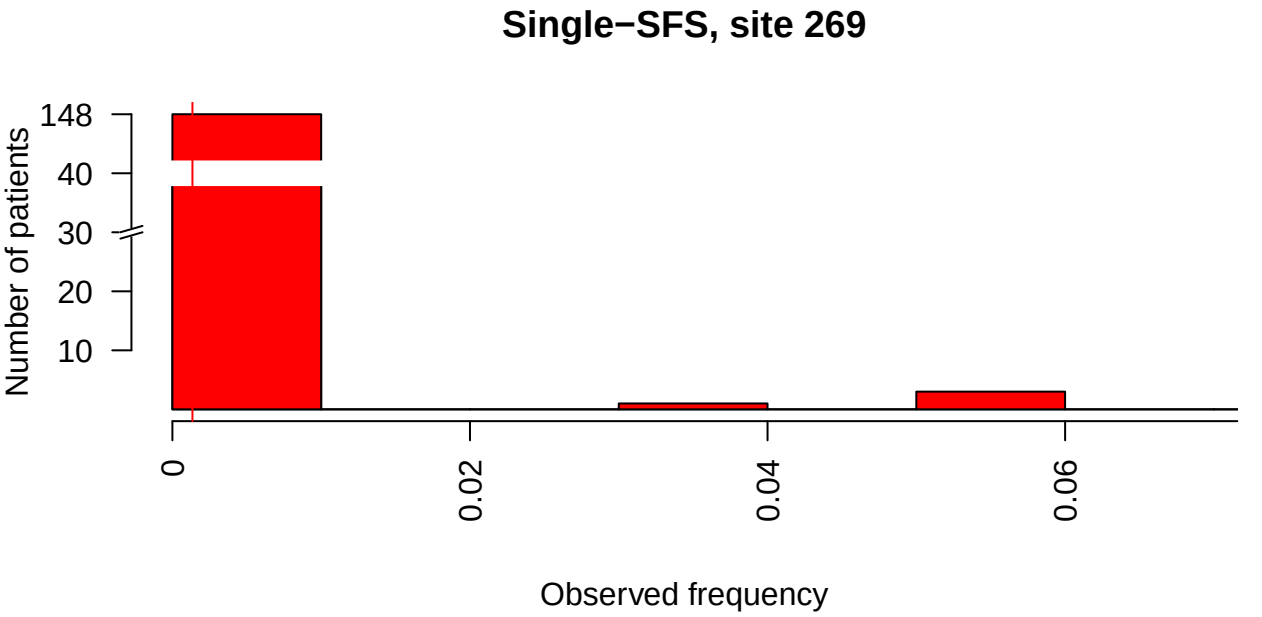

Simulated data, cost 0.0096
Number of patients
146
40
30
20
10
pvalue= 0.182
0
0.02
0.04
0.06
0.08
0.1
Observed frequency

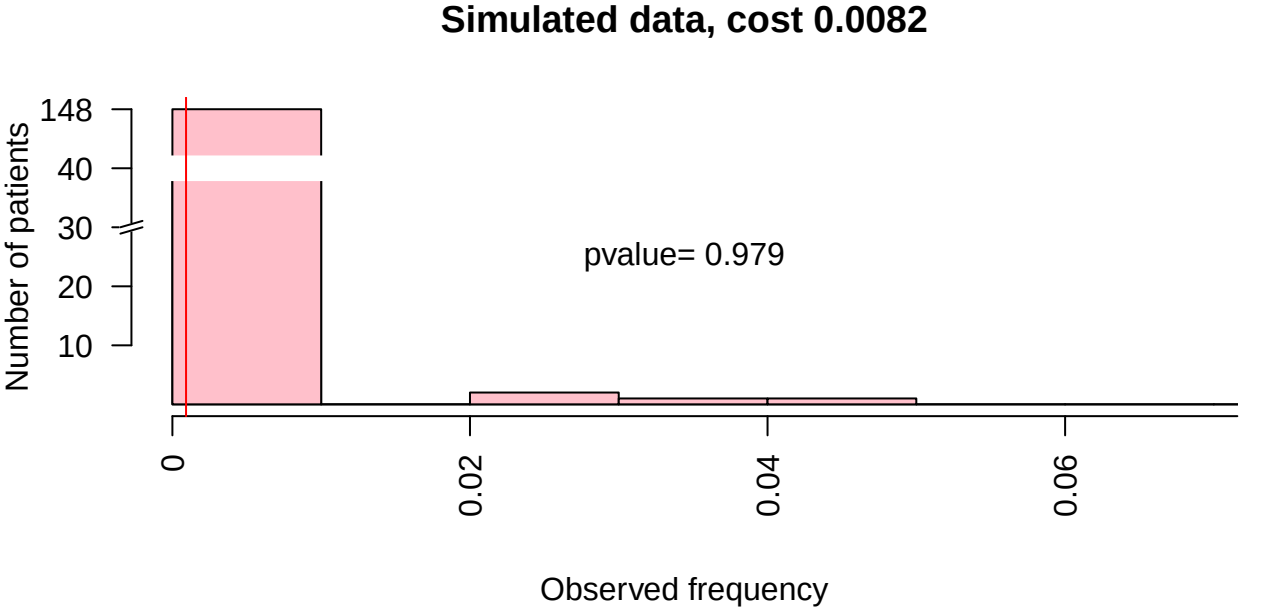

Single−SFS, site 267
Number of patients
128
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
0.24
0.26
0.28
0.3
0.32
0.34
0.36
0.38
0.4
0.42
0.44
0.46
0.48
0.5
0.52
0.54
0.56
0.58
0.6
0.62
0.64
0.66
0.68
0.7
0.72
Observed frequency

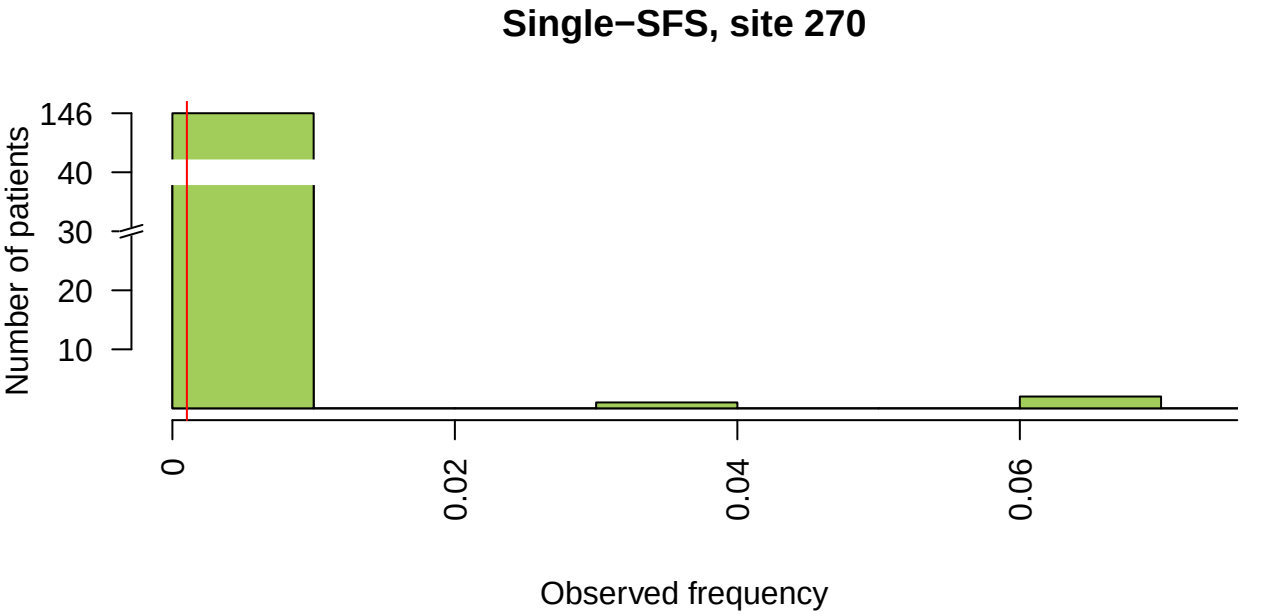

Simulated data, cost 0.0047
Number of patients
109
40
30
20
10
pvalue= 0.001
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
0.24
0.26
0.28
0.3
0.32
0.34
0.36
0.38
0.4
0.42
0.44
0.46
0.48
0.5
0.52
0.54
0.56
0.58
0.6
0.62
0.64
0.66
0.68
0.7
0.72
Observed frequency

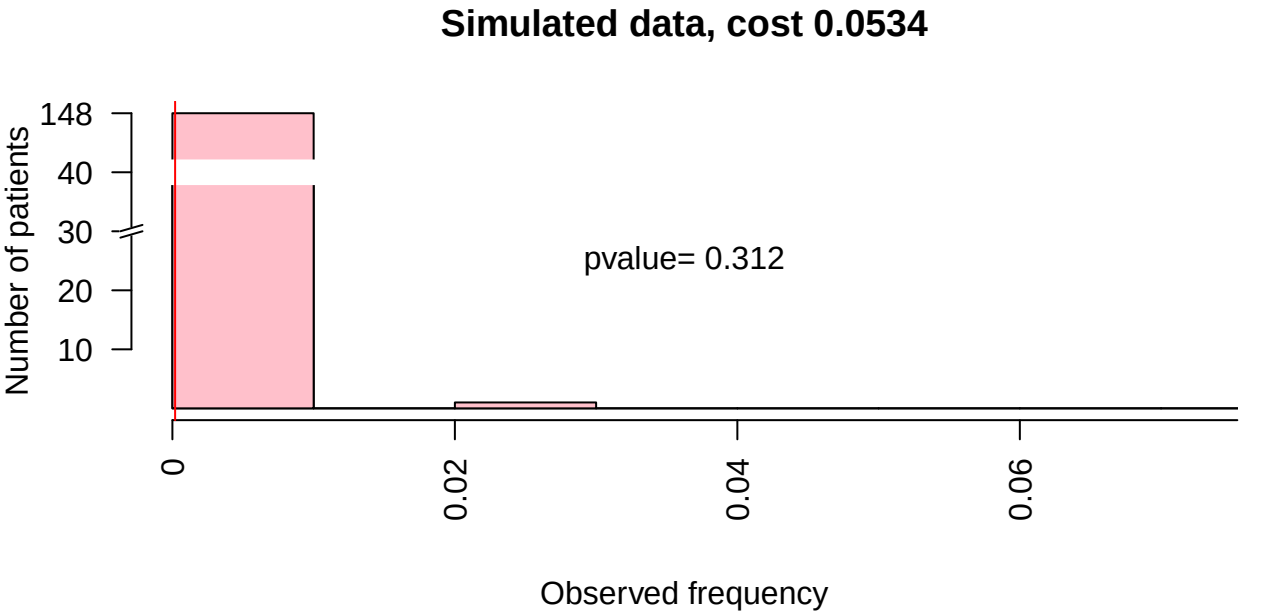

Single−SFS, site 268
Number of patients
141
40
30
20
10
0
0.02
0.04
0.06
0.08
Observed frequency

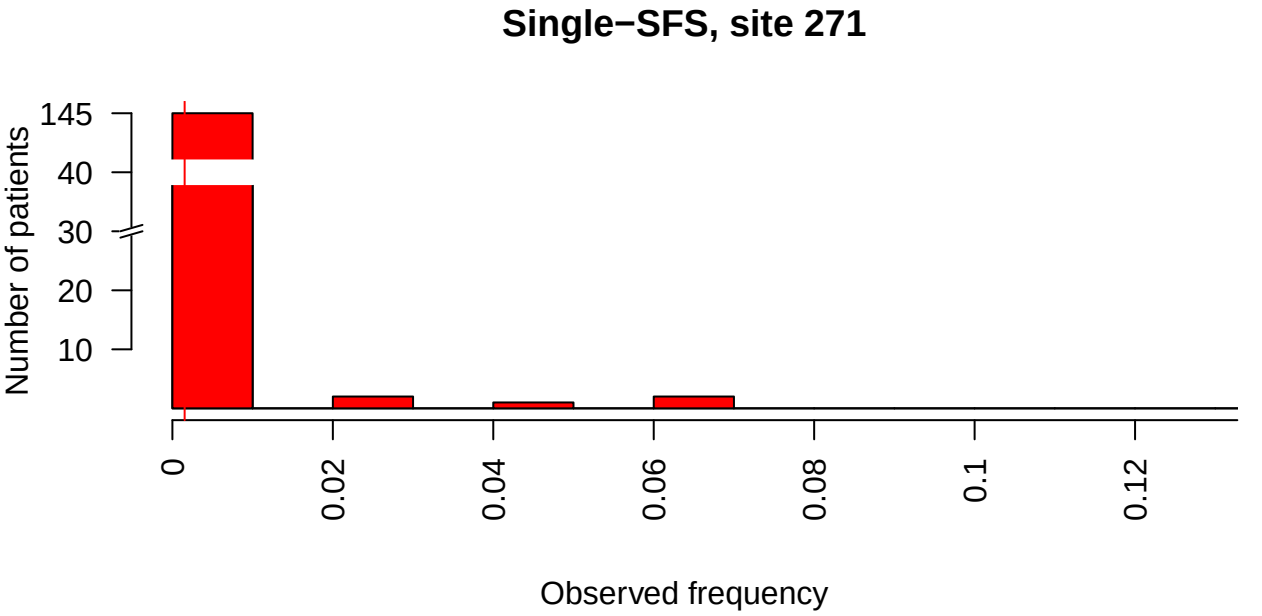

Simulated data, cost 0.0067
Number of patients
147
40
30
20
10
pvalue= 0.057
0
0.02
0.04
0.06
0.08
Observed frequency

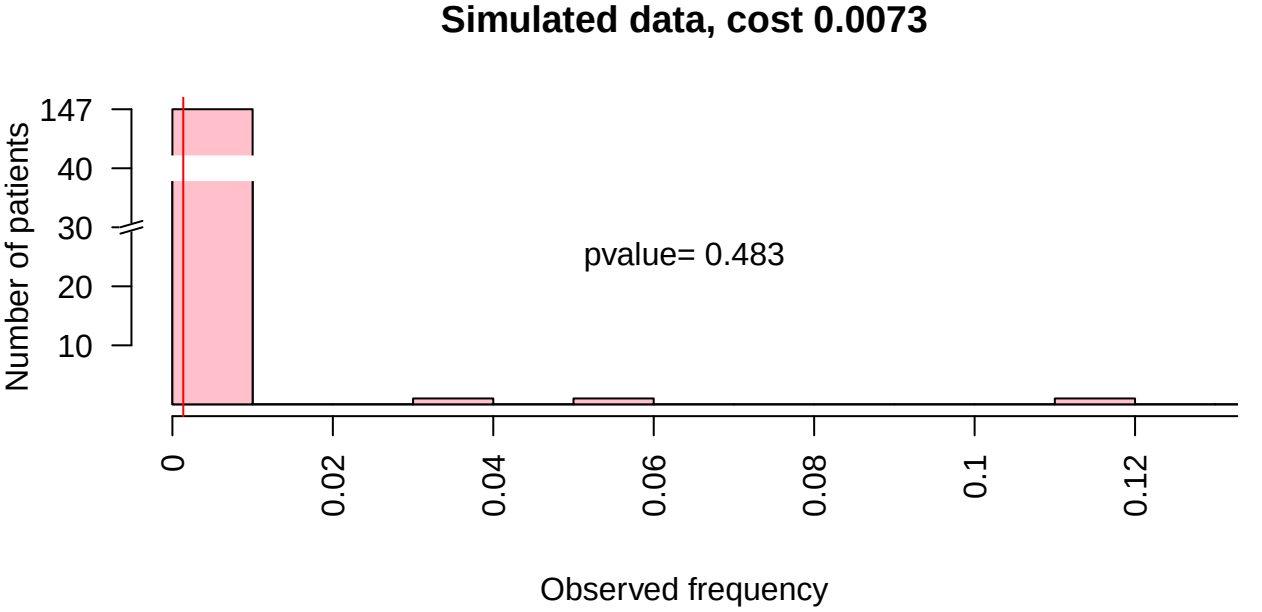

Single−SFS, site 269
Number of patients
148
40
30
20
10
0
0.02
0.04
0.06
Observed frequency

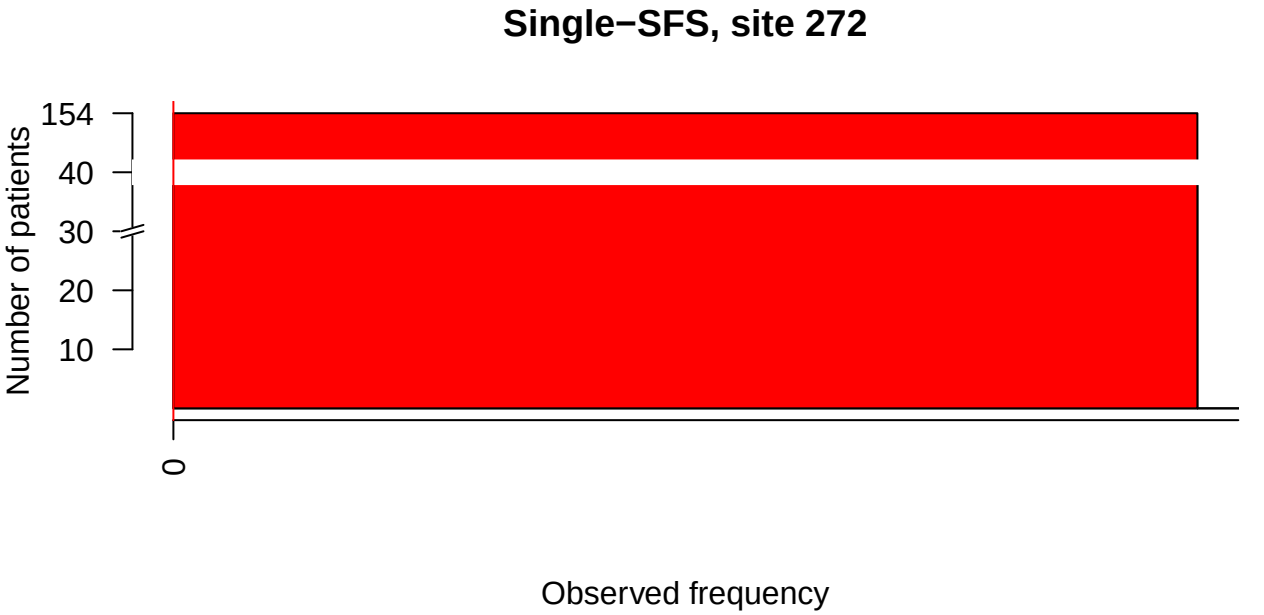

Simulated data, cost 0.0082
Number of patients
148
40
30
20
10
pvalue= 0.979
0
0.02
0.04
0.06
Observed frequency

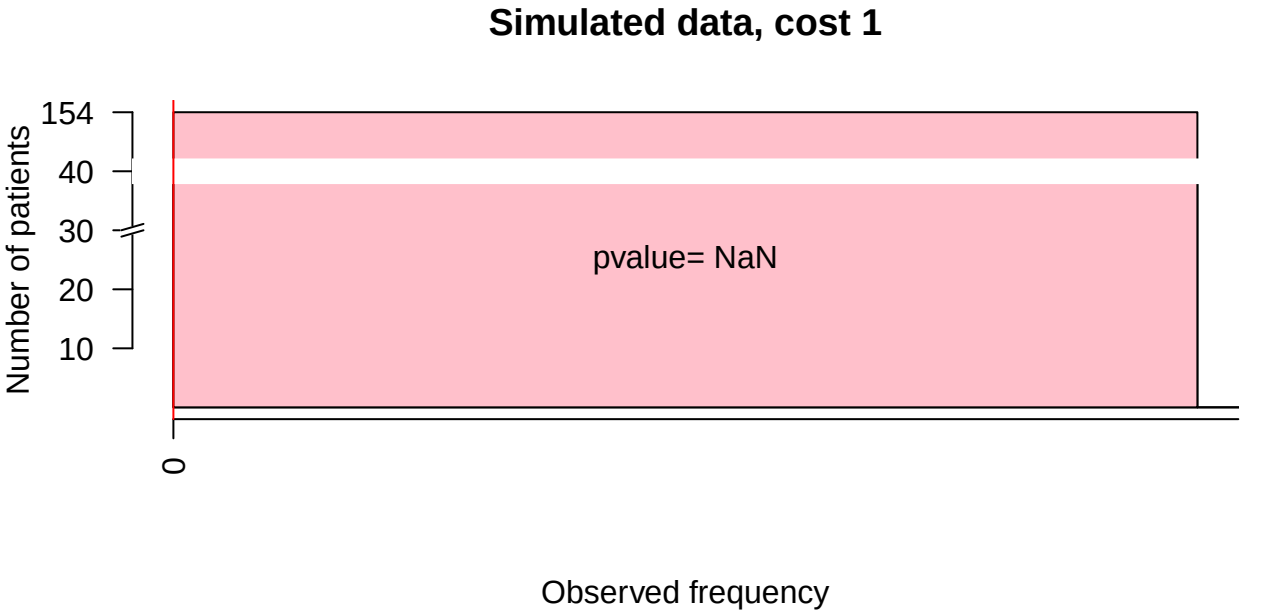

Single−SFS, site 270
Number of patients
146
40
30
20
10
0
0.02
0.04
0.06
Observed frequency

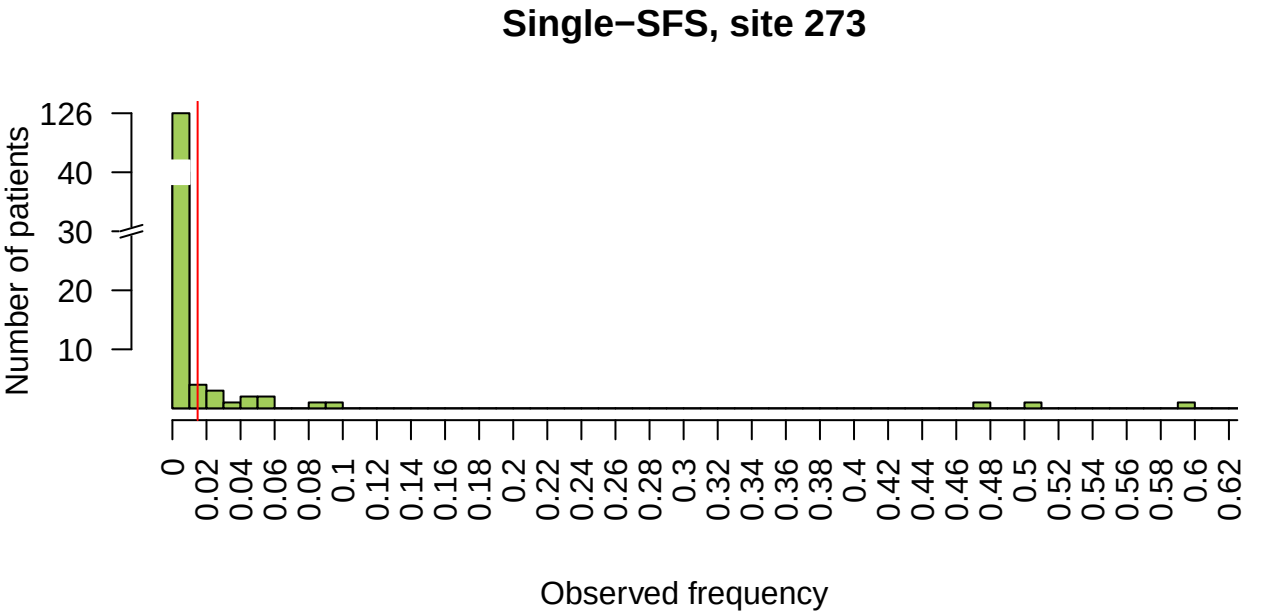

Simulated data, cost 0.0534
Number of patients
148
40
30
20
10
pvalue= 0.312
0
0.02
0.04
0.06
Observed frequency

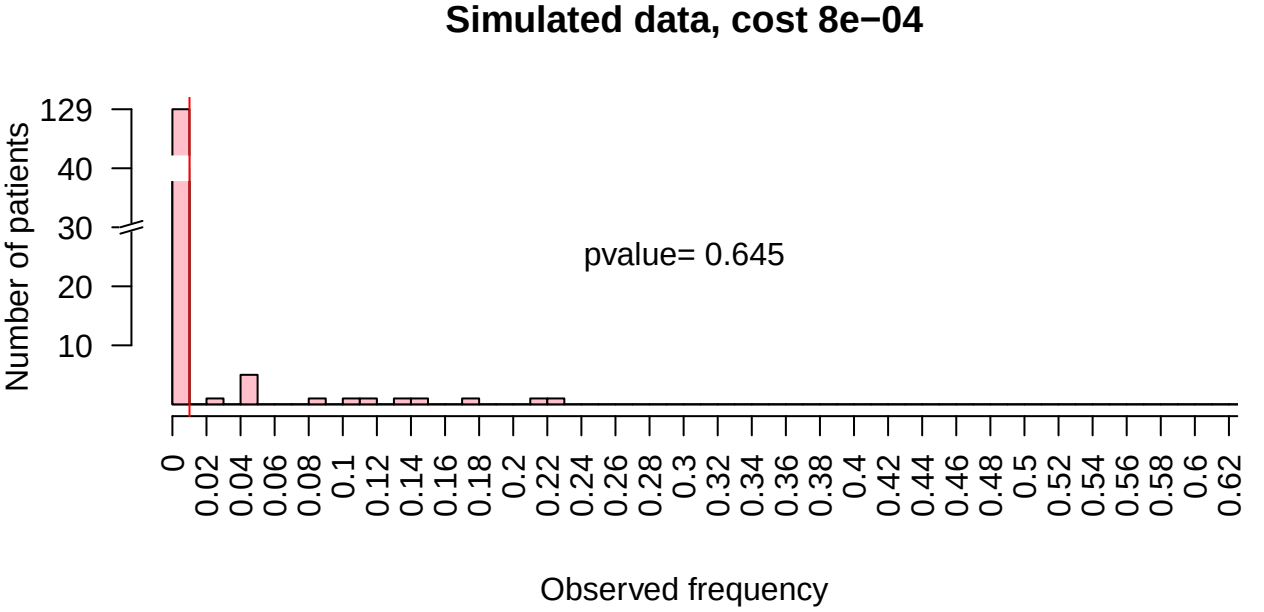

Single−SFS, site 271
Number of patients
145
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
Observed frequency

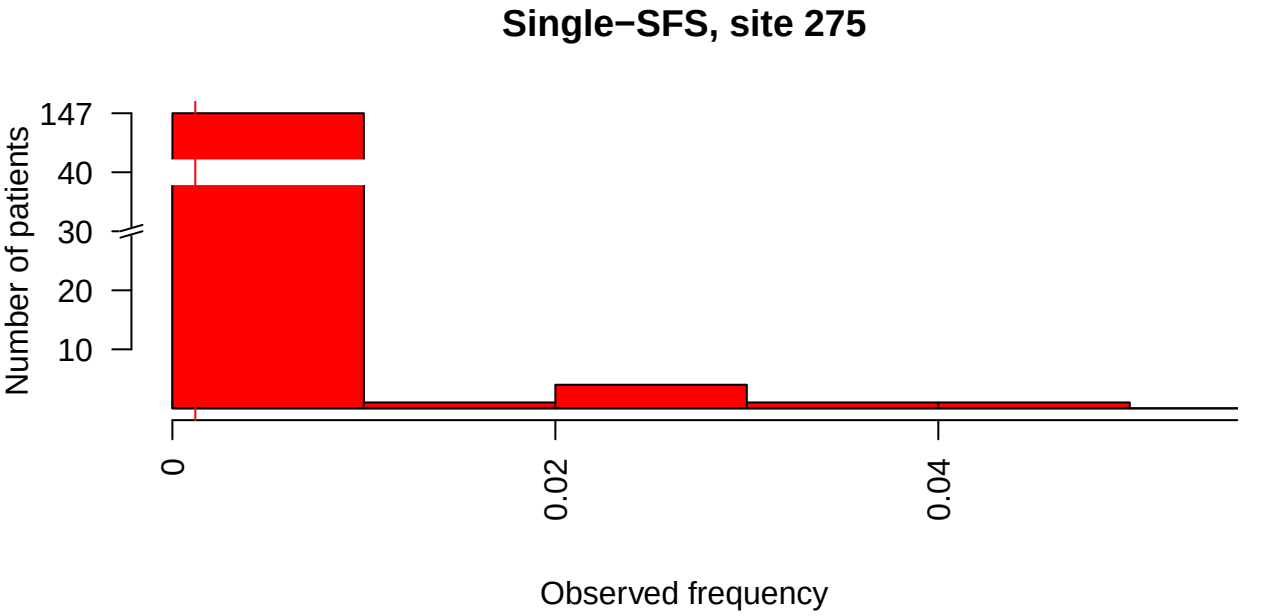

Simulated data, cost 0.0073
Number of patients
147
40
30
20
10
pvalue= 0.483
0
0.02
0.04
0.06
0.08
0.1
0.12
Observed frequency

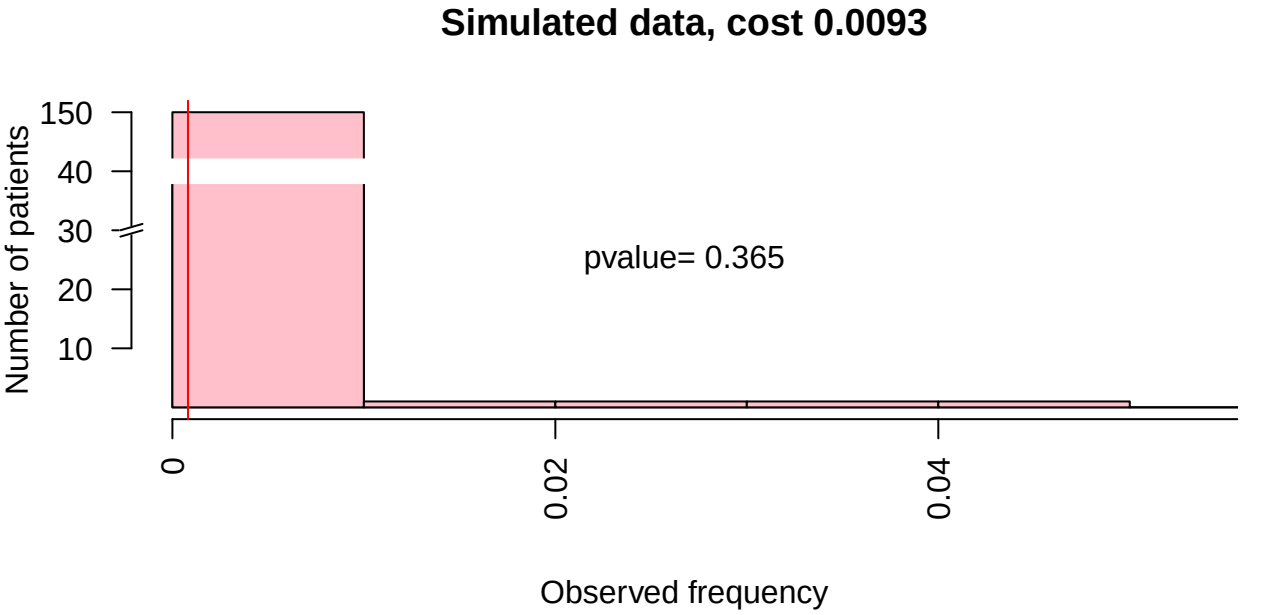

Single−SFS, site 272
Number of patients
154
40
30
20
10
0
Observed frequency

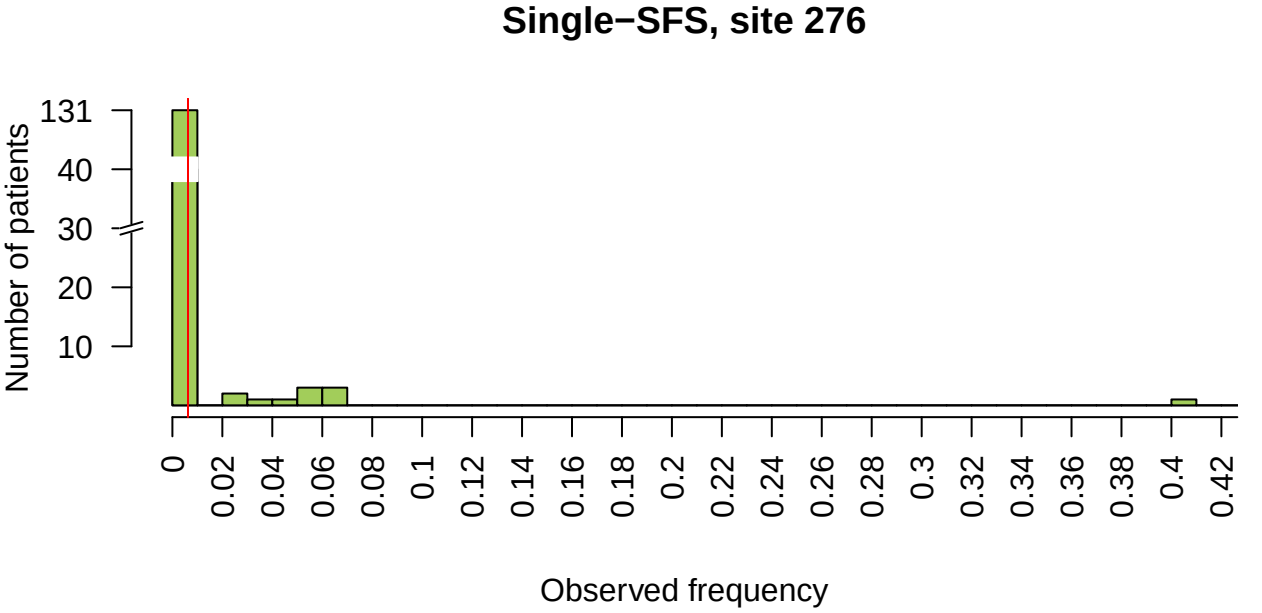

Simulated data, cost 1
Number of patients
154
40
30
20
10
0
pvalue= NaN
Observed frequency

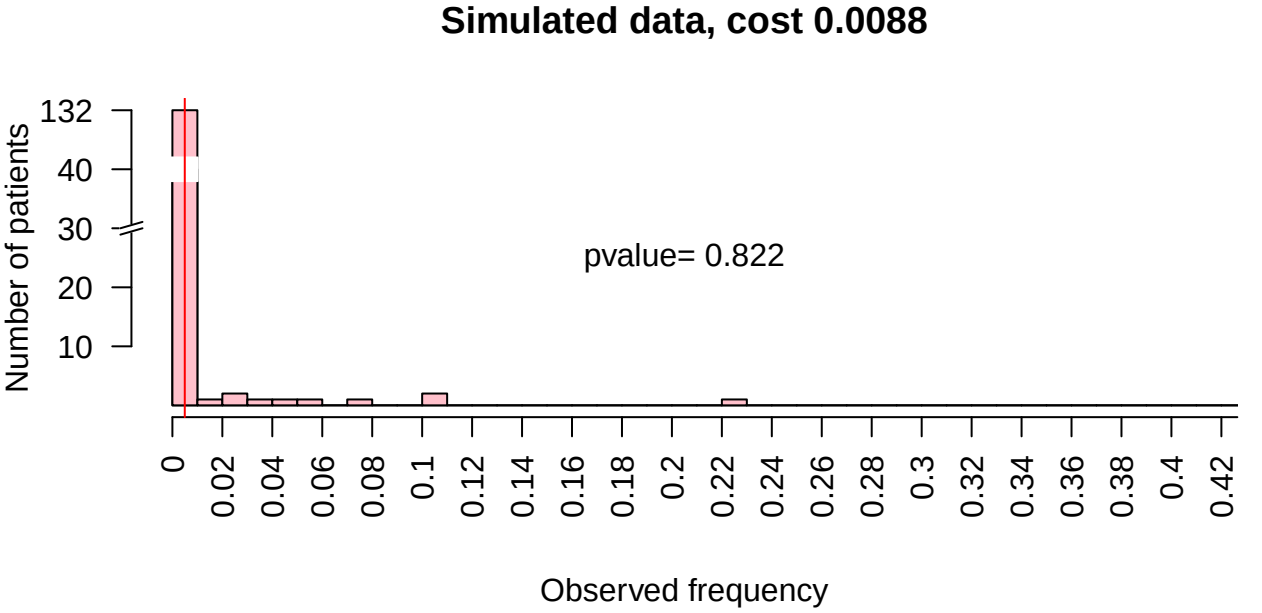

Single−SFS, site 273
Number of patients
126
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
0.24
0.26
0.28
0.3
0.32
0.34
0.36
0.38
0.4
0.42
0.44
0.46
0.48
0.5
0.52
0.54
0.56
0.58
0.6
0.62
Observed frequency

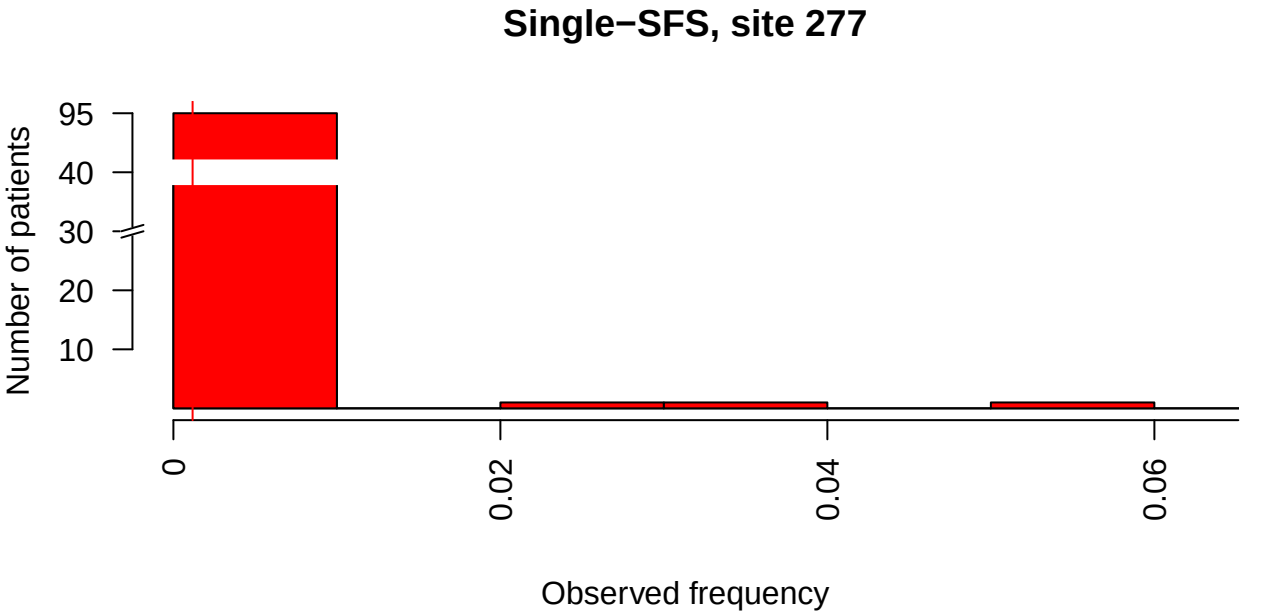

Simulated data, cost 8e−04
Number of patients
129
40
30
20
10
pvalue= 0.645
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
0.24
0.26
0.28
0.3
0.32
0.34
0.36
0.38
0.4
0.42
0.44
0.46
0.48
0.5
0.52
0.54
0.56
0.58
0.6
0.62
Observed frequency

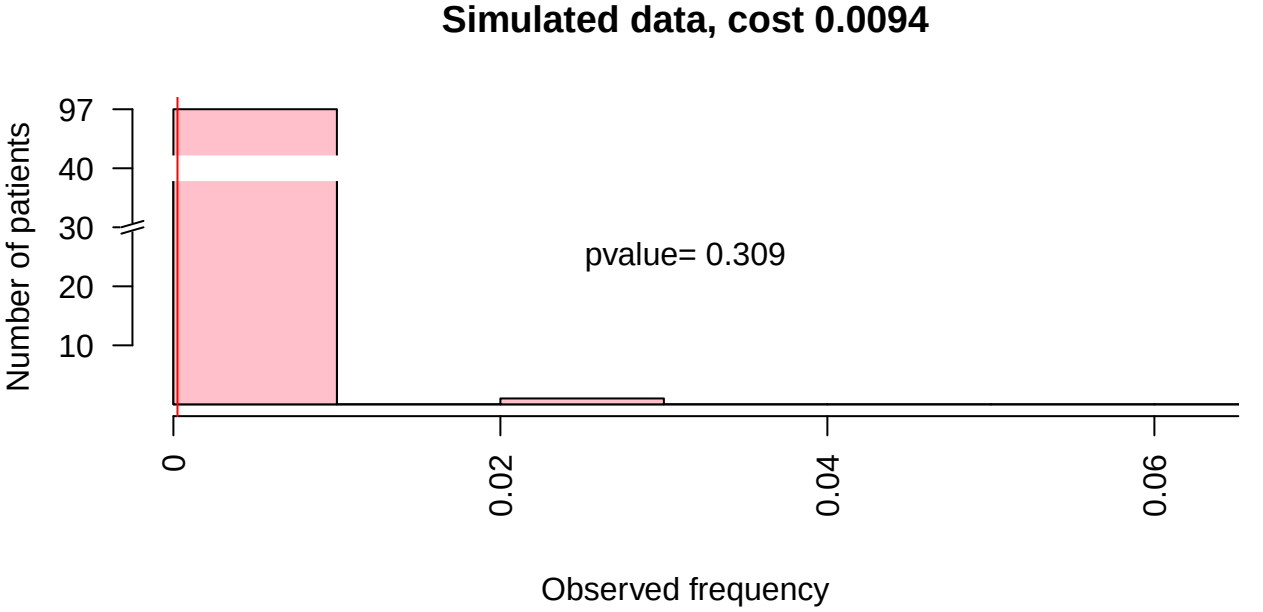

Single−SFS, site 275
Number of patients
147
40
30
20
10
0
0.02
0.04
Observed frequency

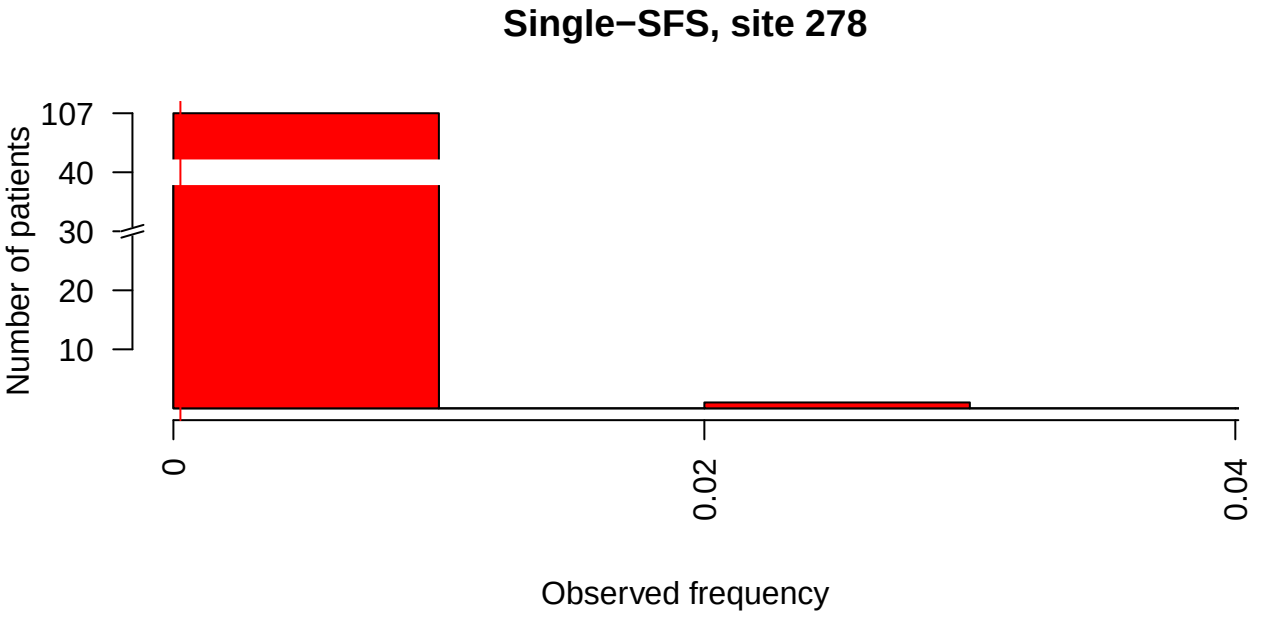

Simulated data, cost 0.0093
Number of patients
150
40
30
20
10
pvalue= 0.365
0
0.02
0.04
Observed frequency

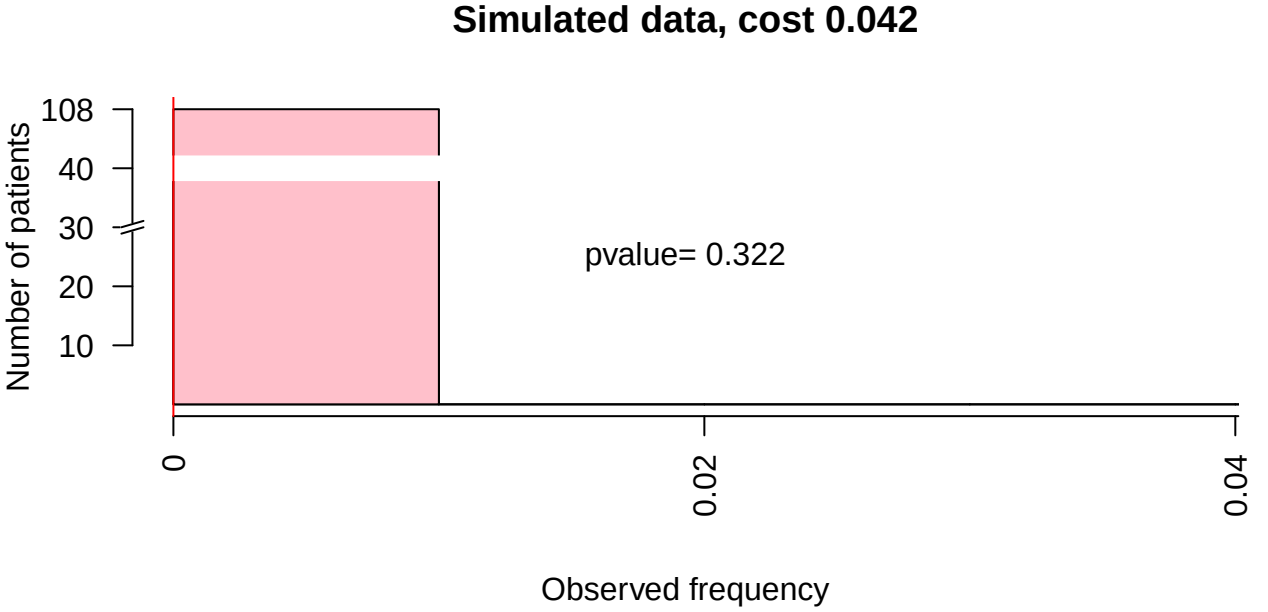

Single−SFS, site 276
Number of patients
131
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
0.24
0.26
0.28
0.3
0.32
0.34
0.36
0.38
0.4
0.42
Observed frequency

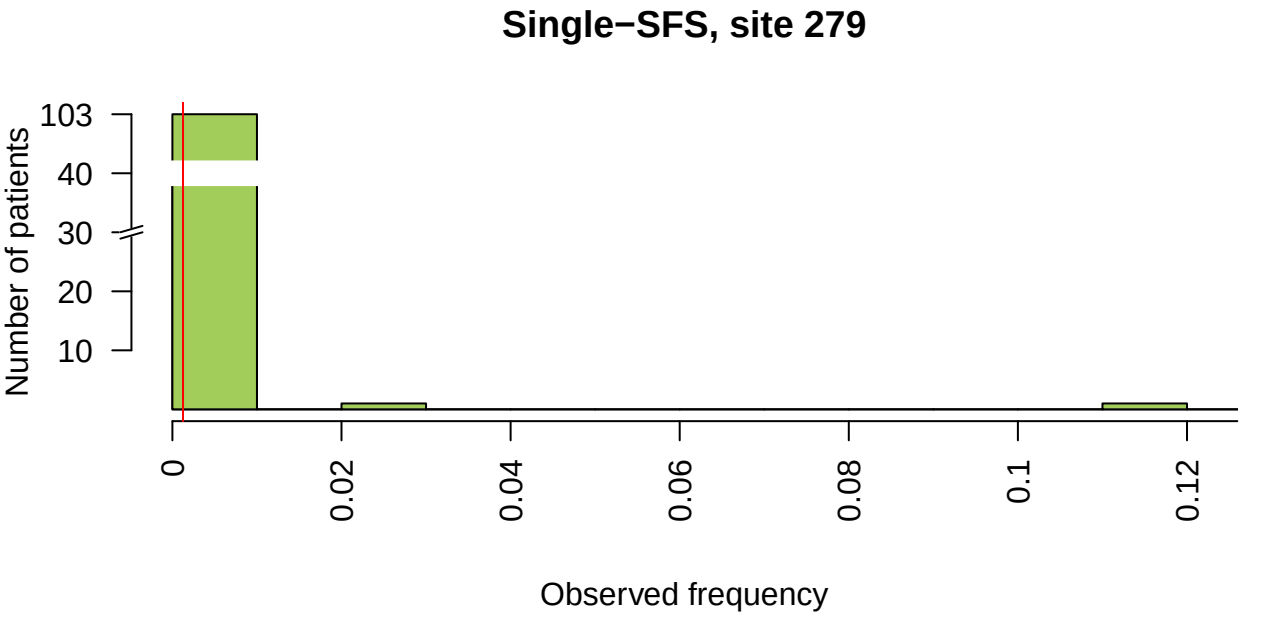

Simulated data, cost 0.0088
Number of patients
132
40
30
20
10
pvalue= 0.822
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
0.24
0.26
0.28
0.3
0.32
0.34
0.36
0.38
0.4
0.42
Observed frequency

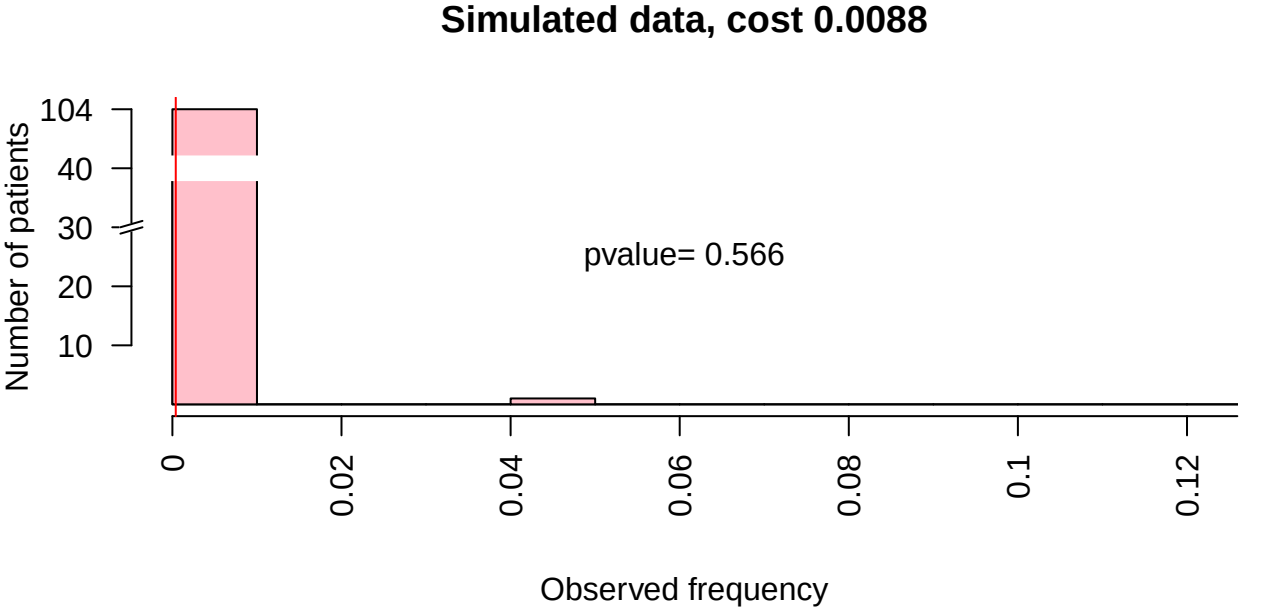

Single−SFS, site 277
Number of patients
95
40
30
20
10
0
0.02
0.04
0.06
Observed frequency

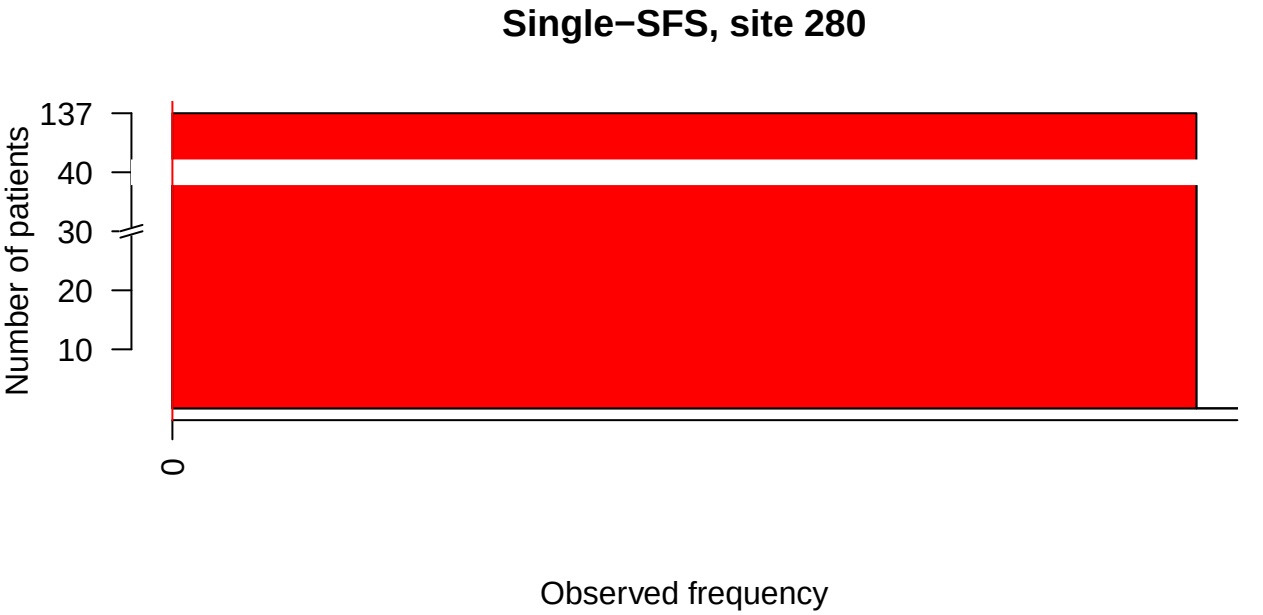

Simulated data, cost 0.0094
Number of patients
97
40
30
20
10
pvalue= 0.309
0
0.02
0.04
0.06
Observed frequency

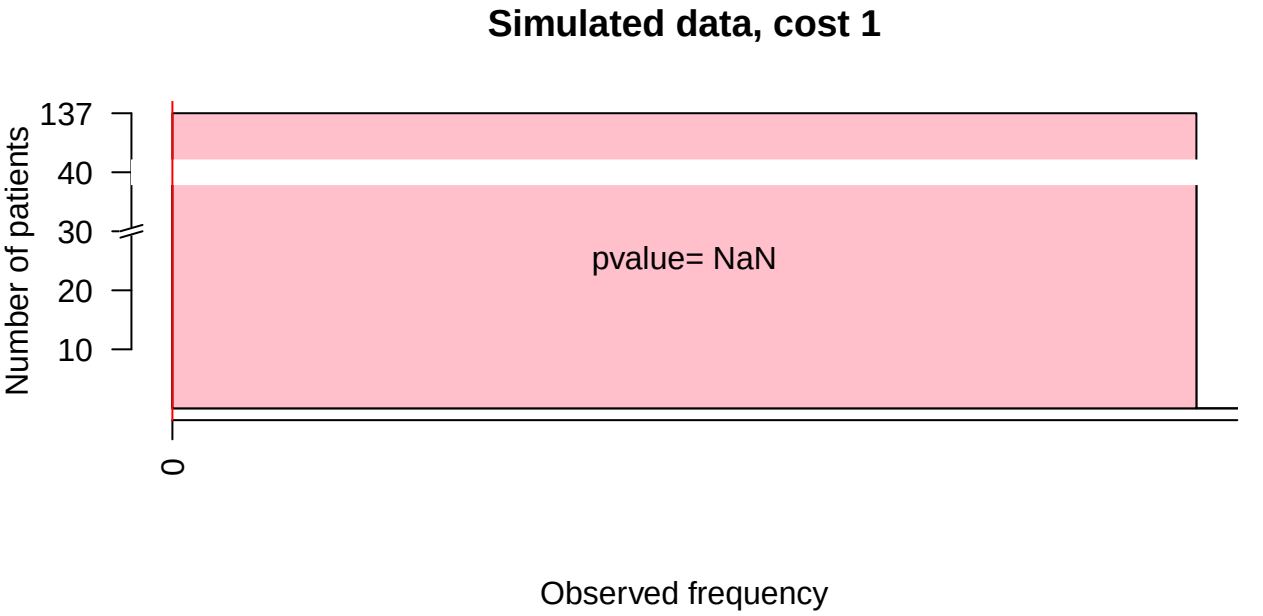

Single−SFS, site 278
Number of patients
107
40
30
20
10
0
0.02
0.04
Observed frequency

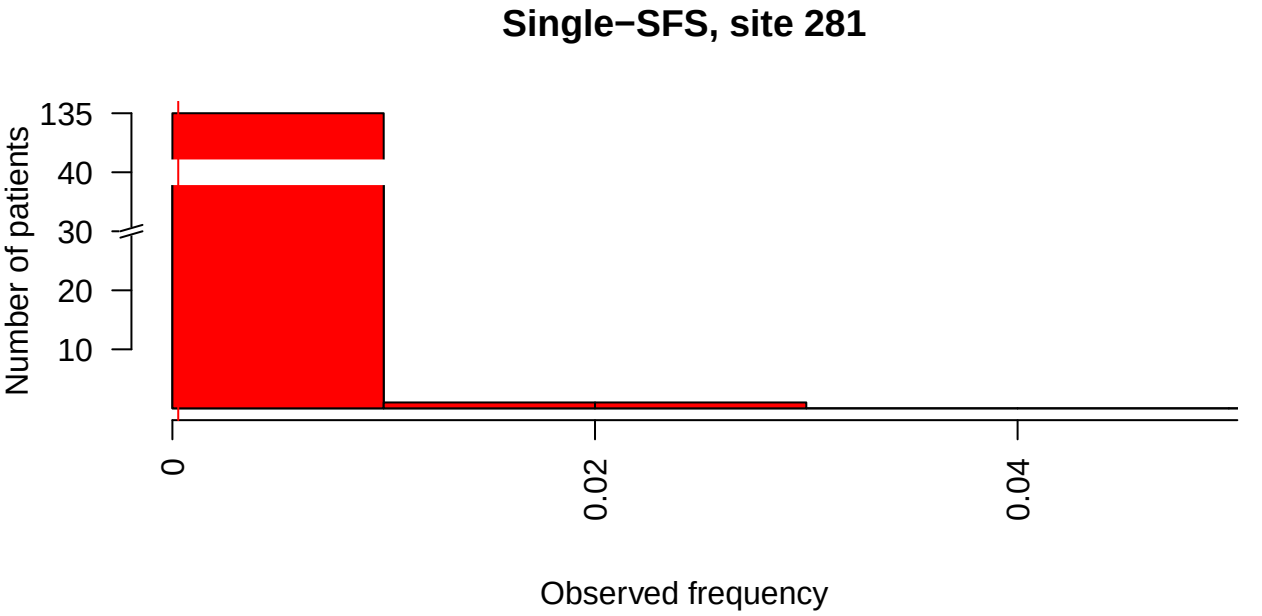

Simulated data, cost 0.042
Number of patients
108
40
30
20
10
pvalue= 0.322
0
0.02
0.04
Observed frequency

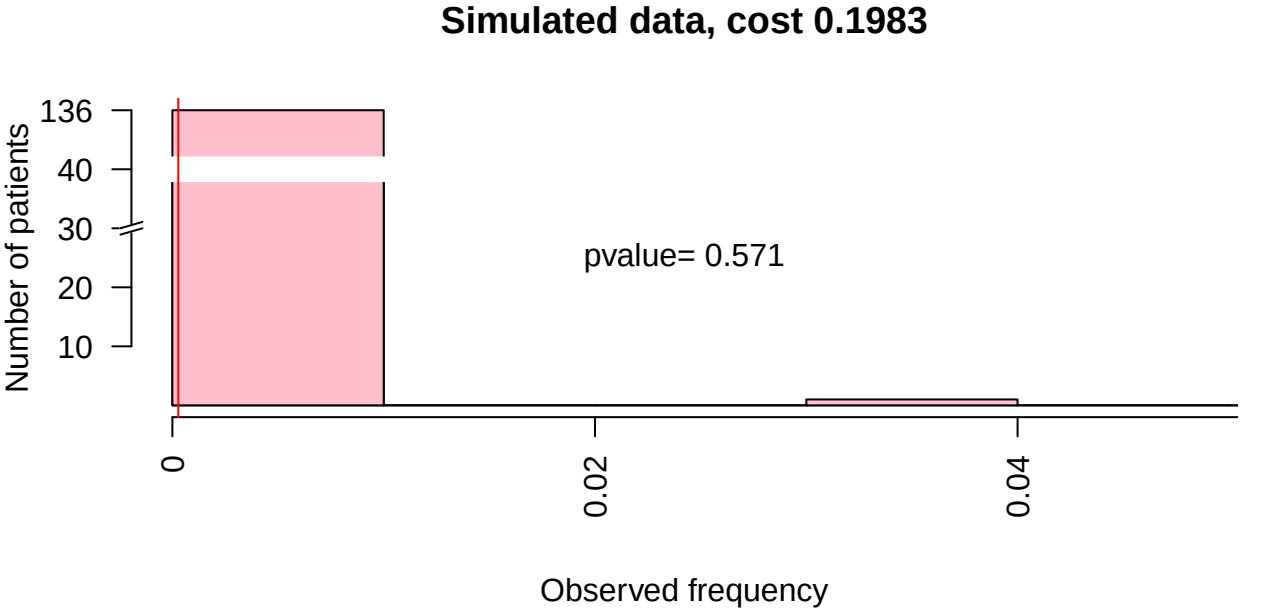

Single−SFS, site 279
Number of patients
103
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
Observed frequency

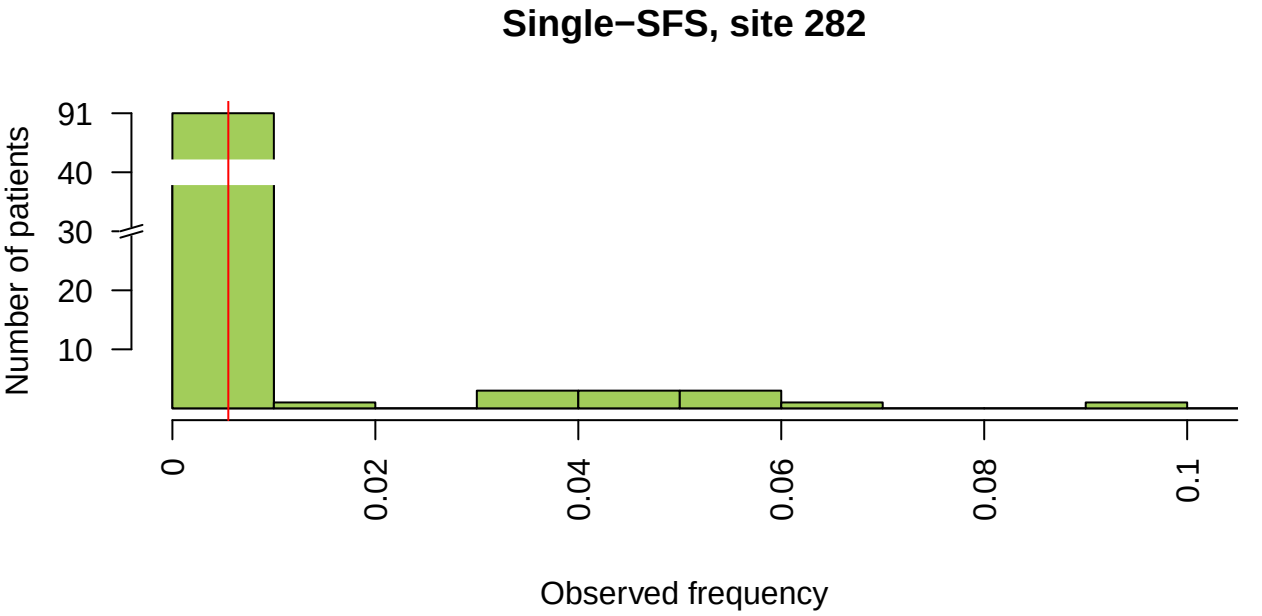

Simulated data, cost 0.0088
Number of patients
104
40
30
20
10
pvalue= 0.566
0
0.02
0.04
0.06
0.08
0.1
0.12
Observed frequency

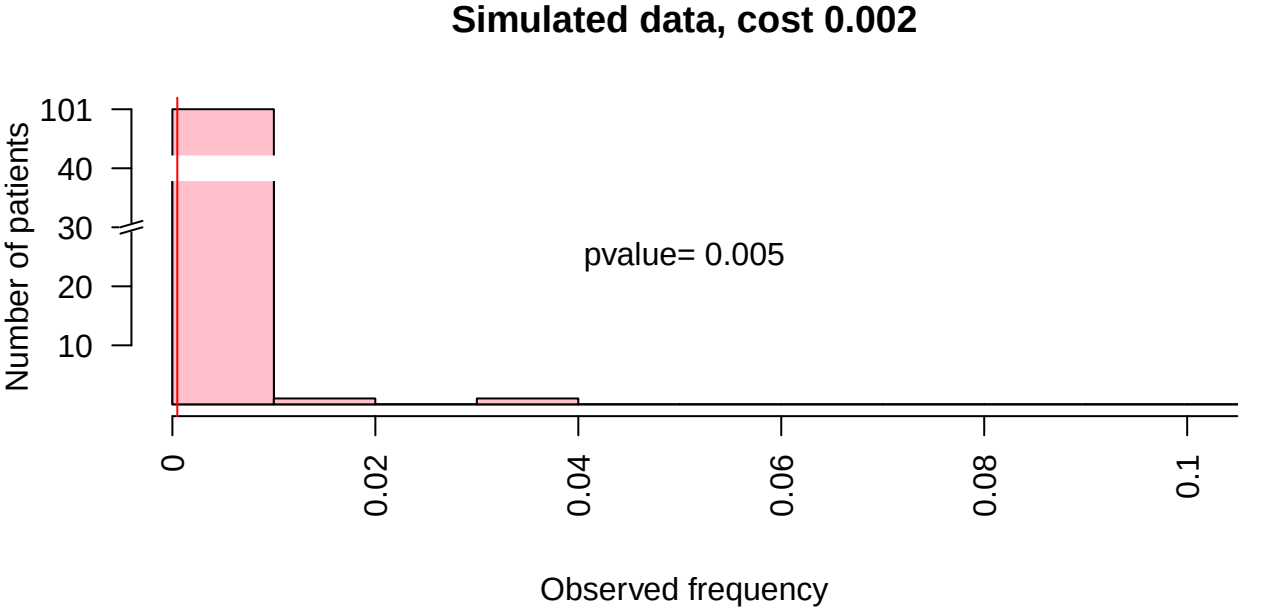

Single−SFS, site 280
Number of patients
137
40
30
20
10
0
Observed frequency

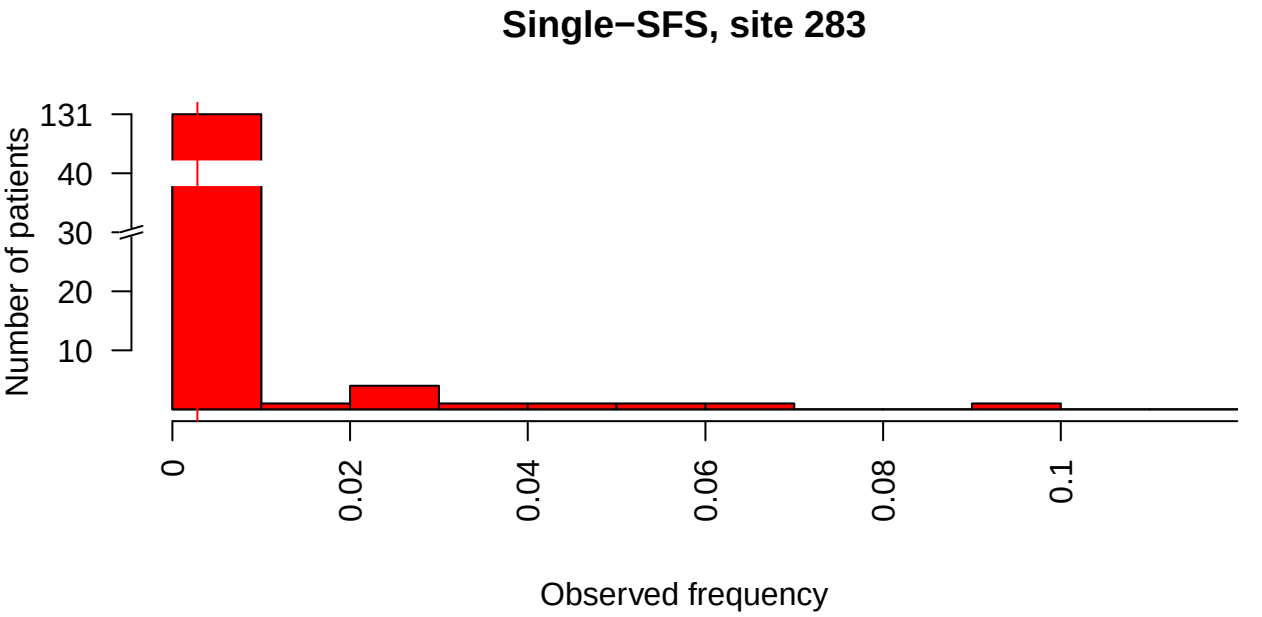

Simulated data, cost 1
Number of patients
137
40
30
20
10
0
pvalue= NaN
Observed frequency

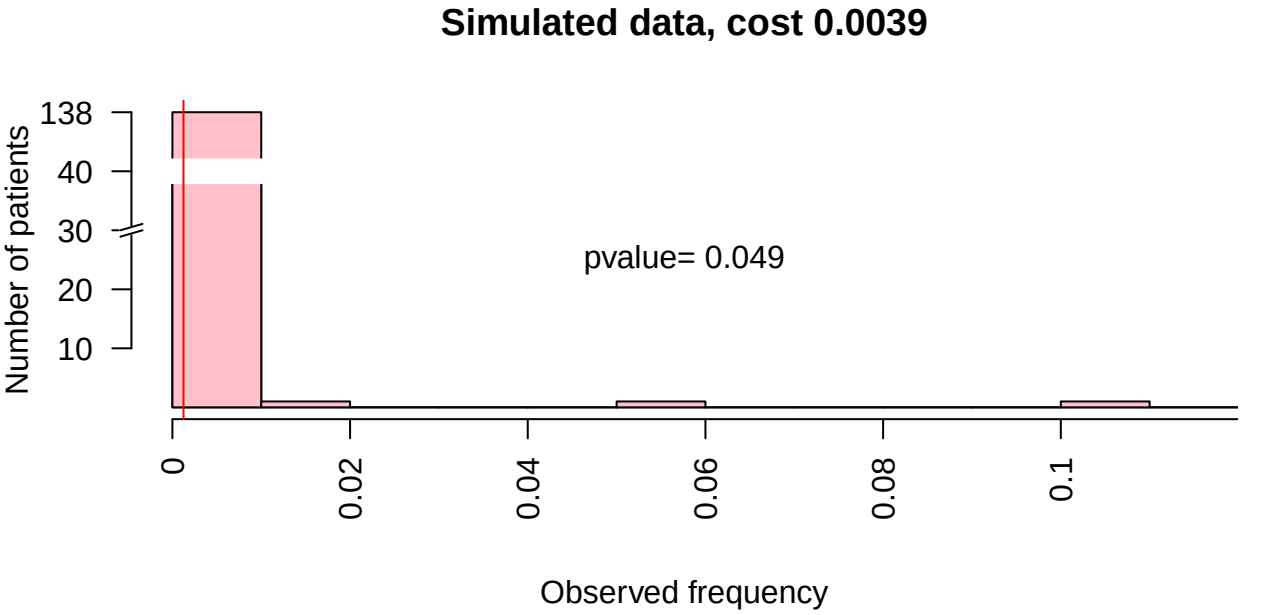

Single−SFS, site 281
Number of patients
135
40
30
20
10
0
0.02
0.04
Observed frequency

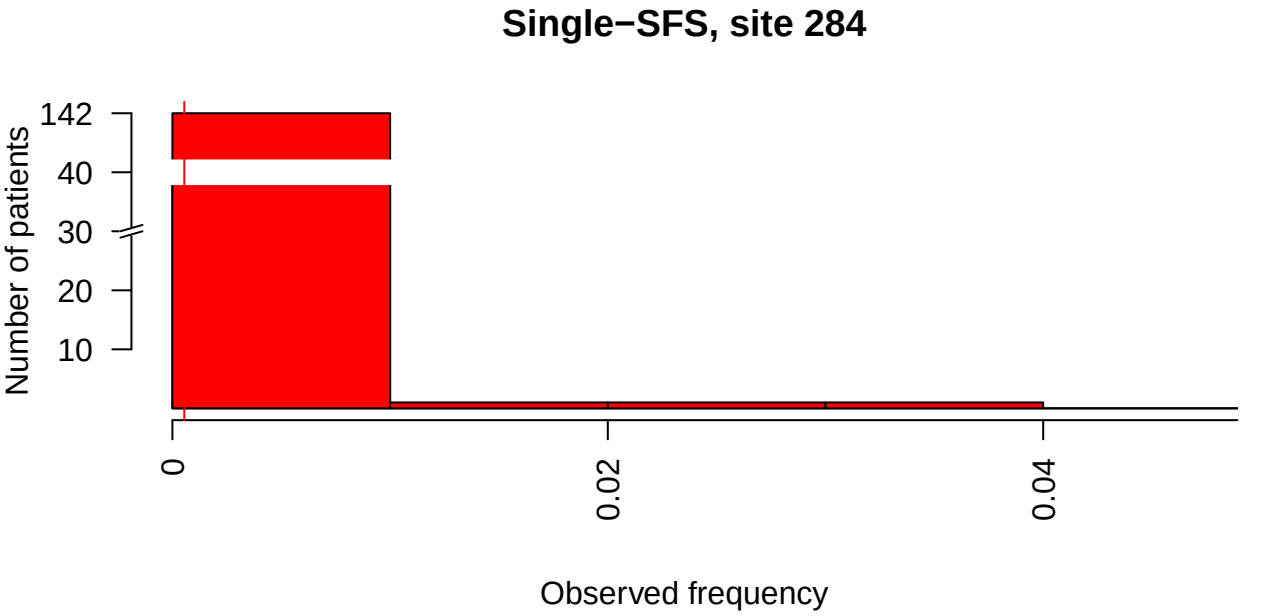

Simulated data, cost 0.1983
Number of patients
136
40
30
20
10
pvalue= 0.571
0
0.02
0.04
Observed frequency

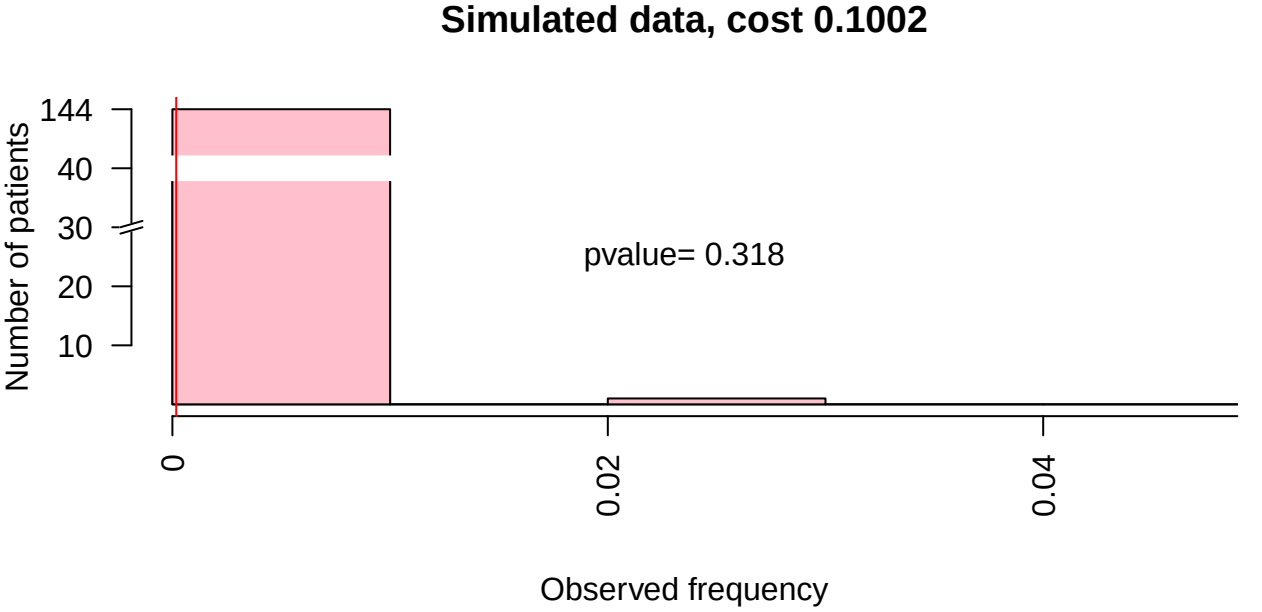

Single−SFS, site 282
Number of patients
91
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
Observed frequency

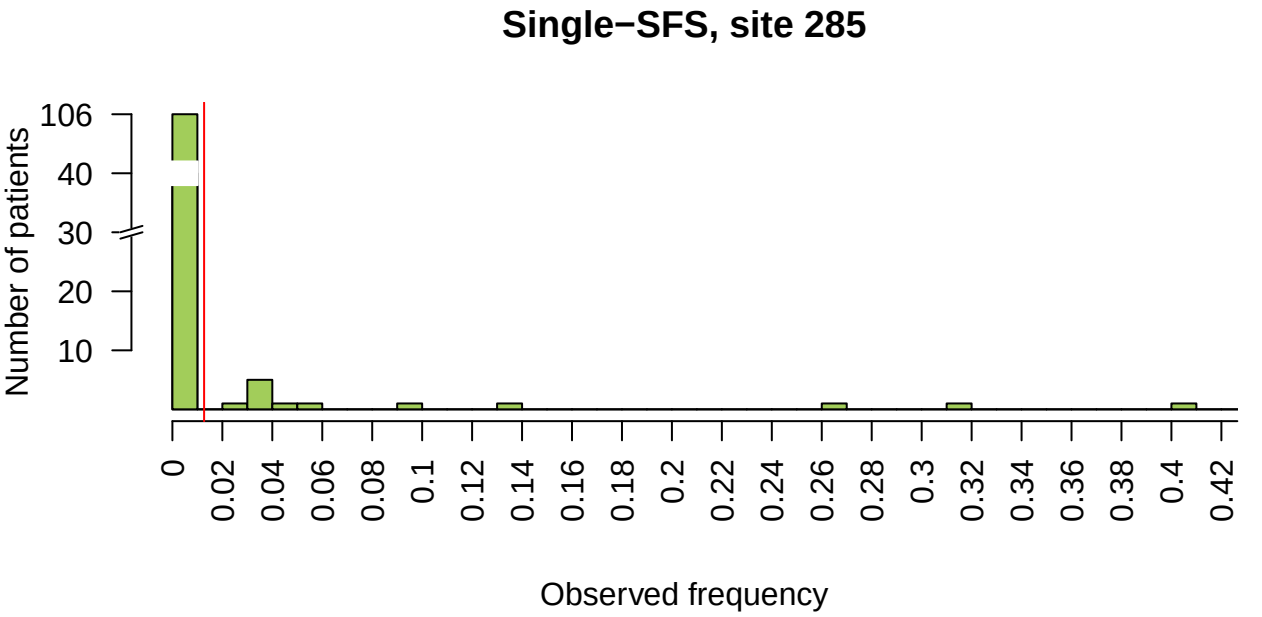

Simulated data, cost 0.002
Number of patients
101
40
30
20
10
pvalue= 0.005
0
0.02
0.04
0.06
0.08
0.1
Observed frequency

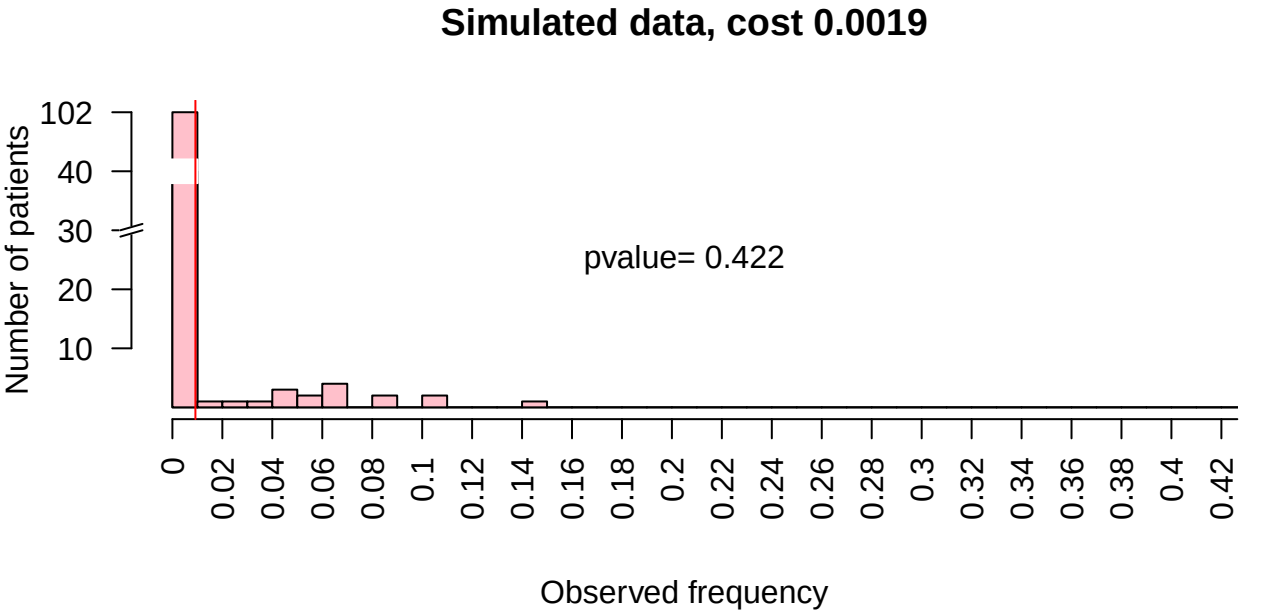

Single−SFS, site 283
Number of patients
131
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
Observed frequency

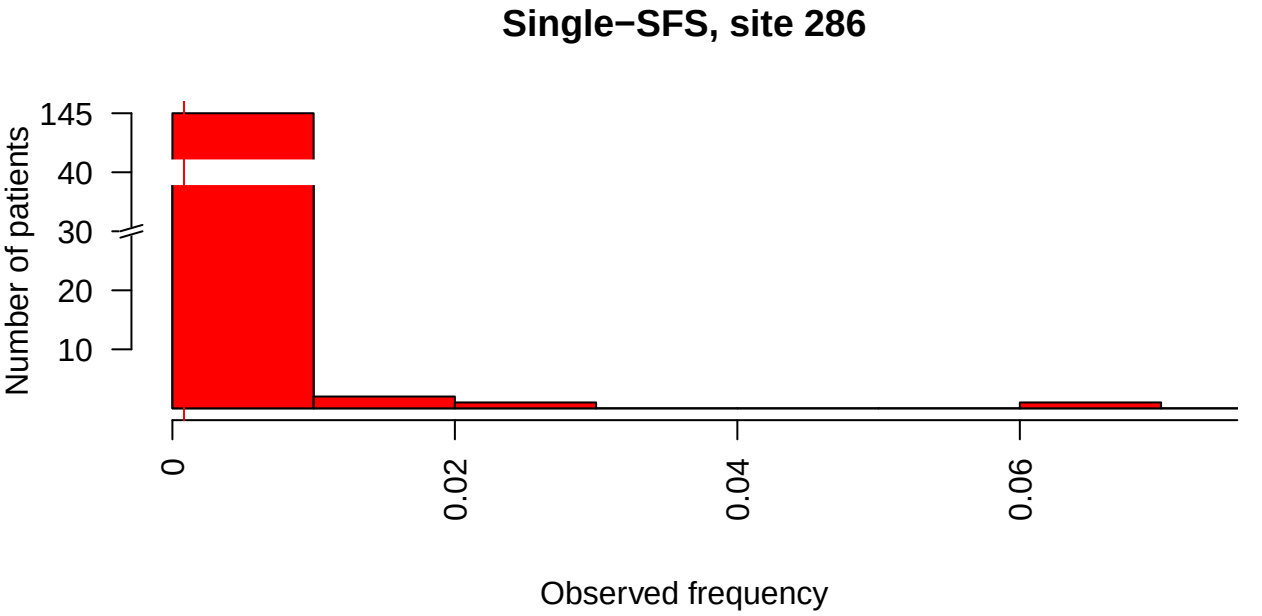

Simulated data, cost 0.0039
Number of patients
138
40
30
20
10
pvalue= 0.049
0
0.02
0.04
0.06
0.08
0.1
Observed frequency

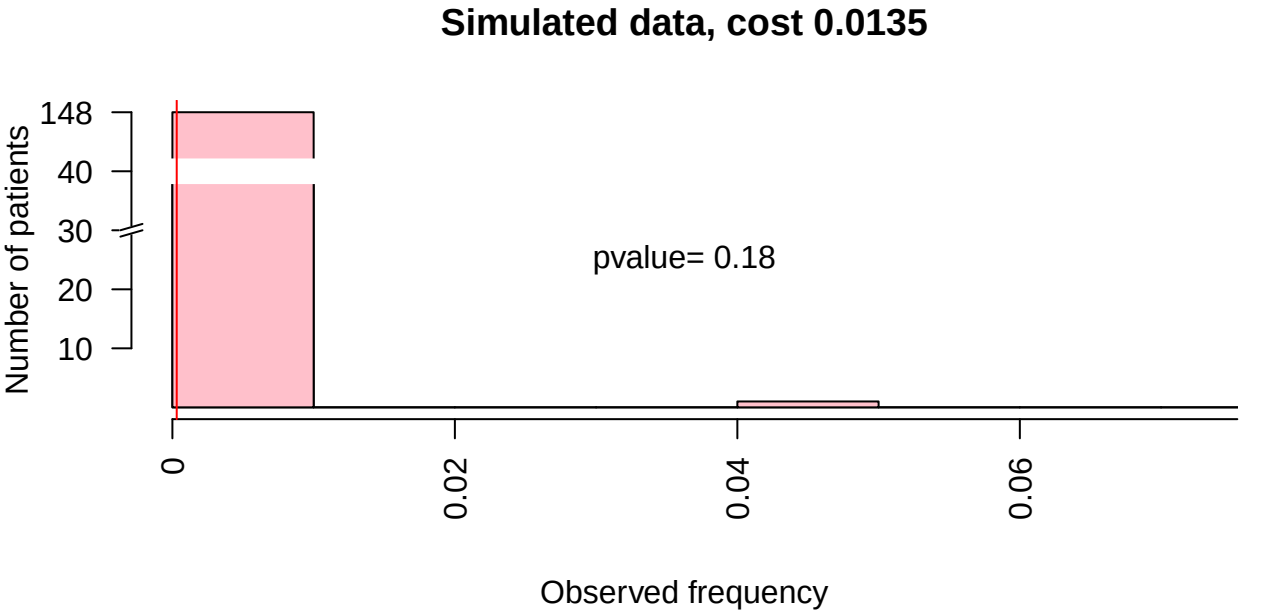

Single−SFS, site 284
Number of patients
142
40
30
20
10
0
0.02
0.04
Observed frequency

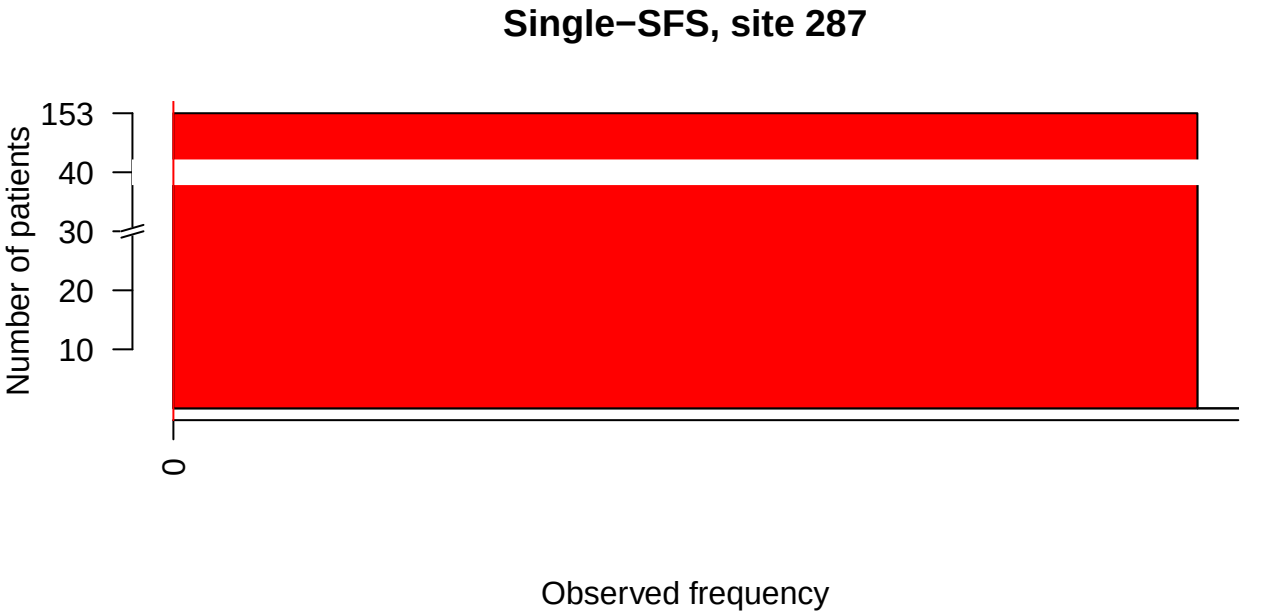

Simulated data, cost 0.1002
Number of patients
144
40
30
20
10
pvalue= 0.318
0
0.02
0.04
Observed frequency

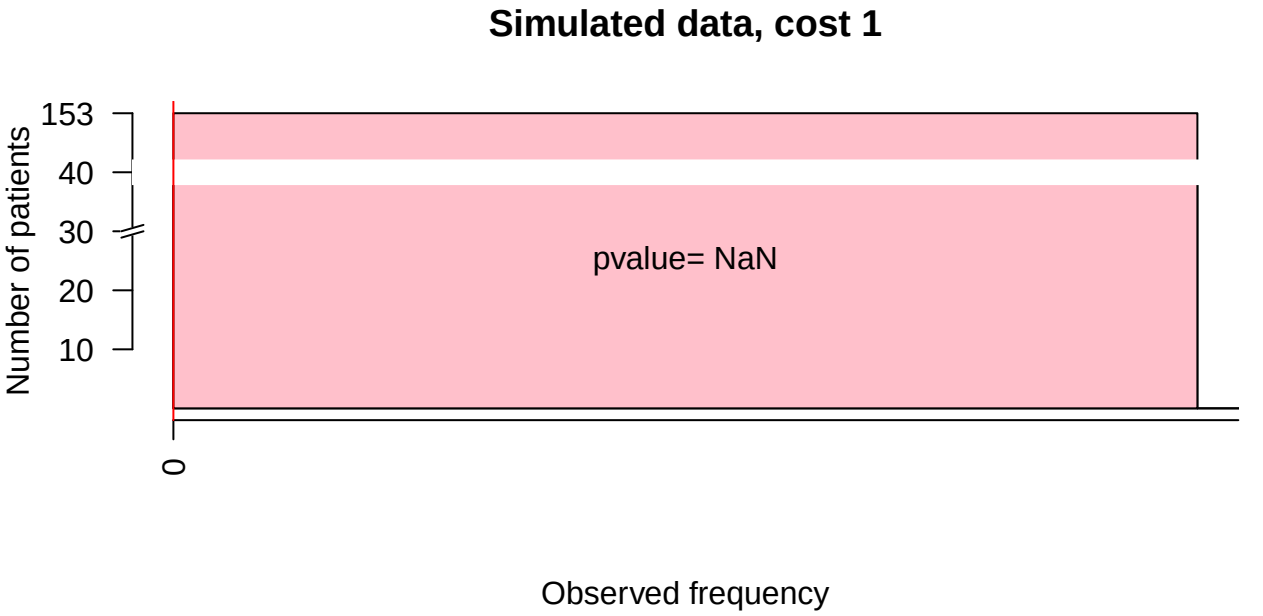

Single−SFS, site 285
Number of patients
106
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
0.24
0.26
0.28
0.3
0.32
0.34
0.36
0.38
0.4
0.42
Observed frequency

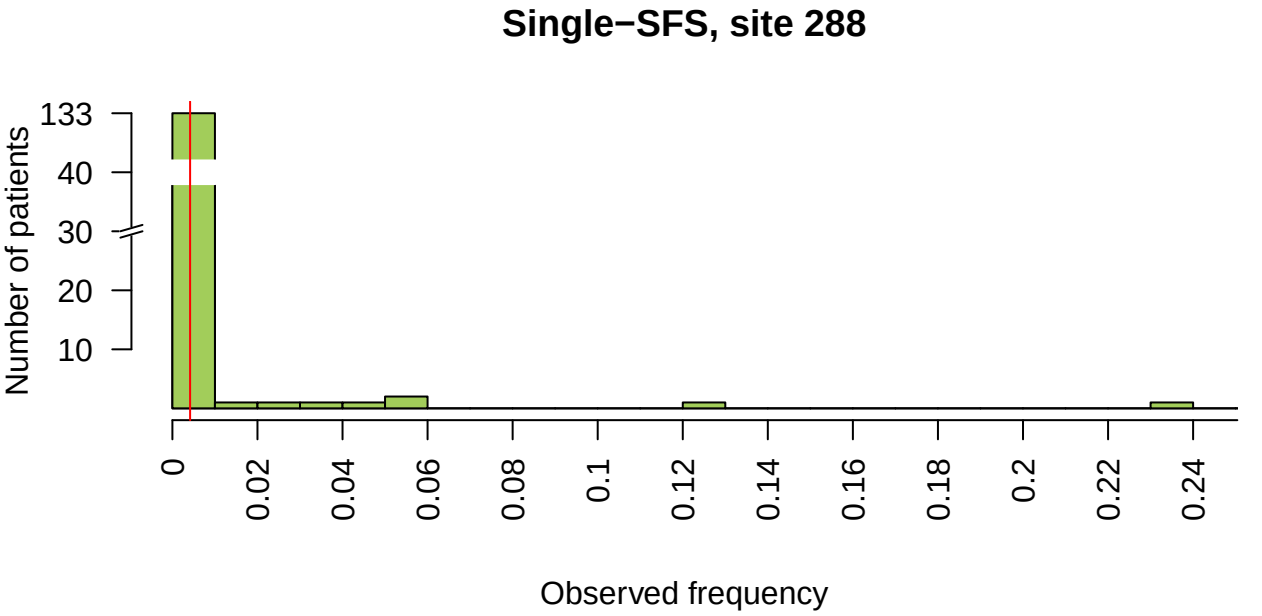

Simulated data, cost 0.0019
Number of patients
102
40
30
20
10
pvalue= 0.422
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
0.24
0.26
0.28
0.3
0.32
0.34
0.36
0.38
0.4
0.42
Observed frequency

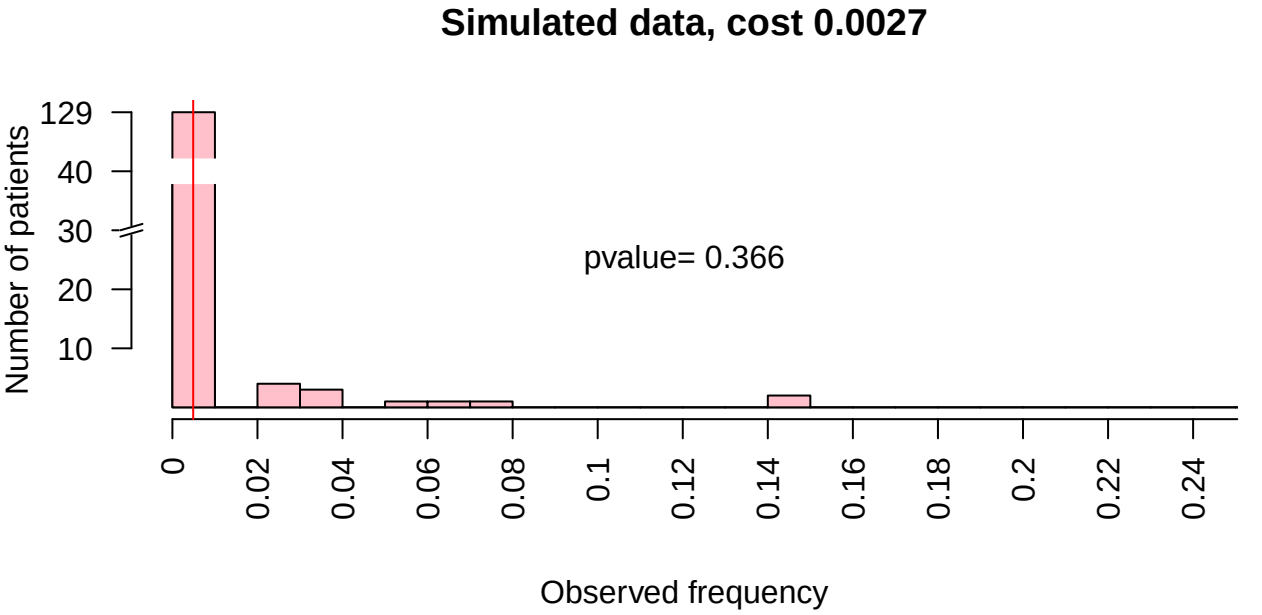

Single−SFS, site 286
Number of patients
145
40
30
20
10
0
0.02
0.04
0.06
Observed frequency

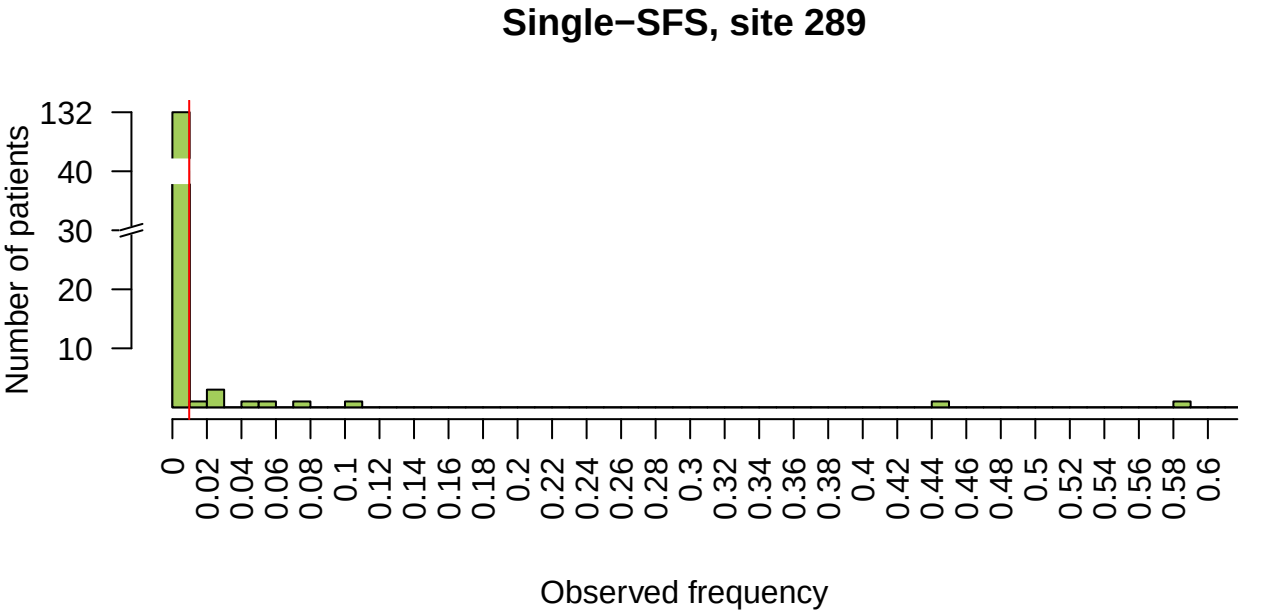

Simulated data, cost 0.0135
Number of patients
148
40
30
20
10
pvalue= 0.18
0
0.02
0.04
0.06
Observed frequency

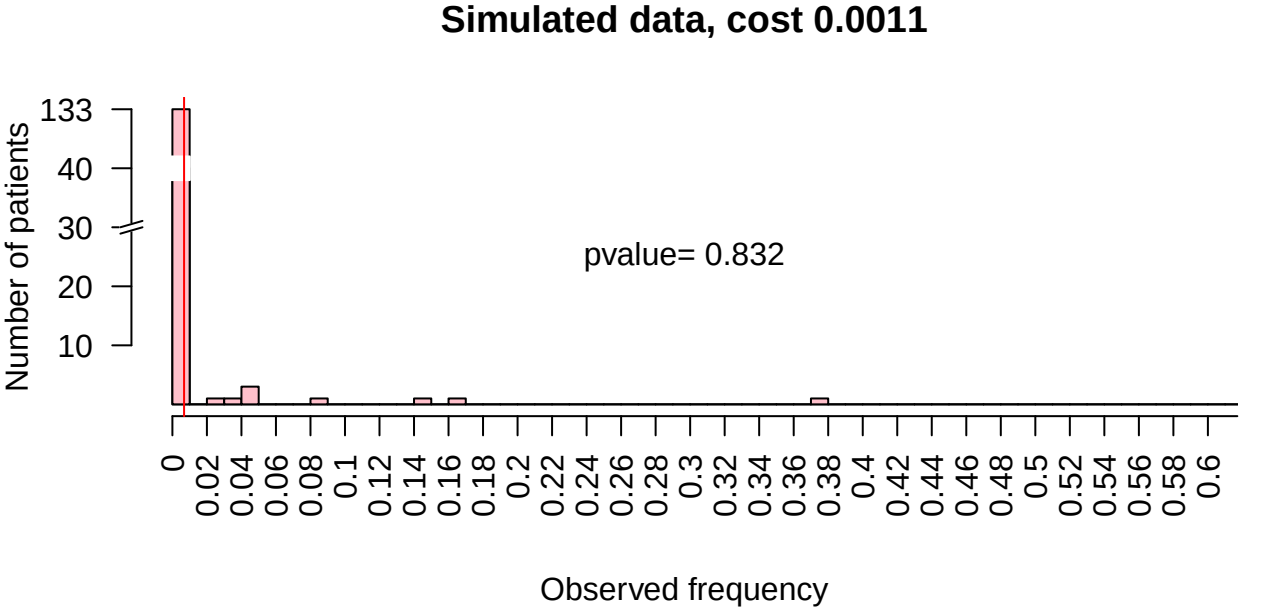

Single−SFS, site 287
Number of patients
153
40
30
20
10
0
Observed frequency

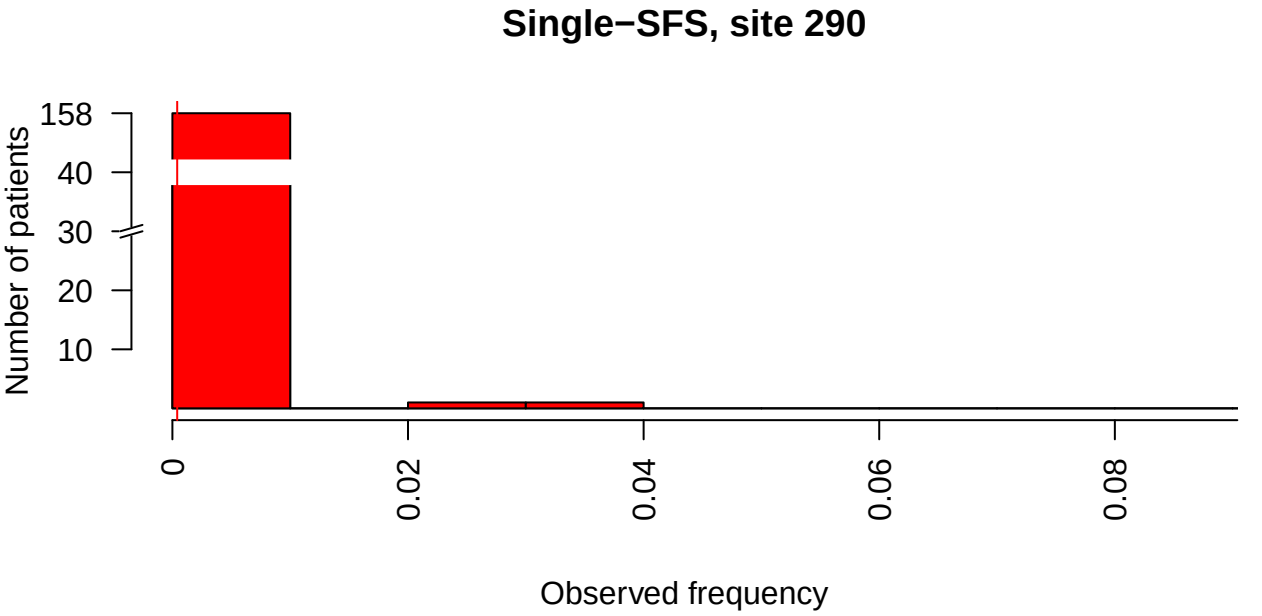

Simulated data, cost 1
Number of patients
153
40
30
20
10
0
pvalue= NaN
Observed frequency

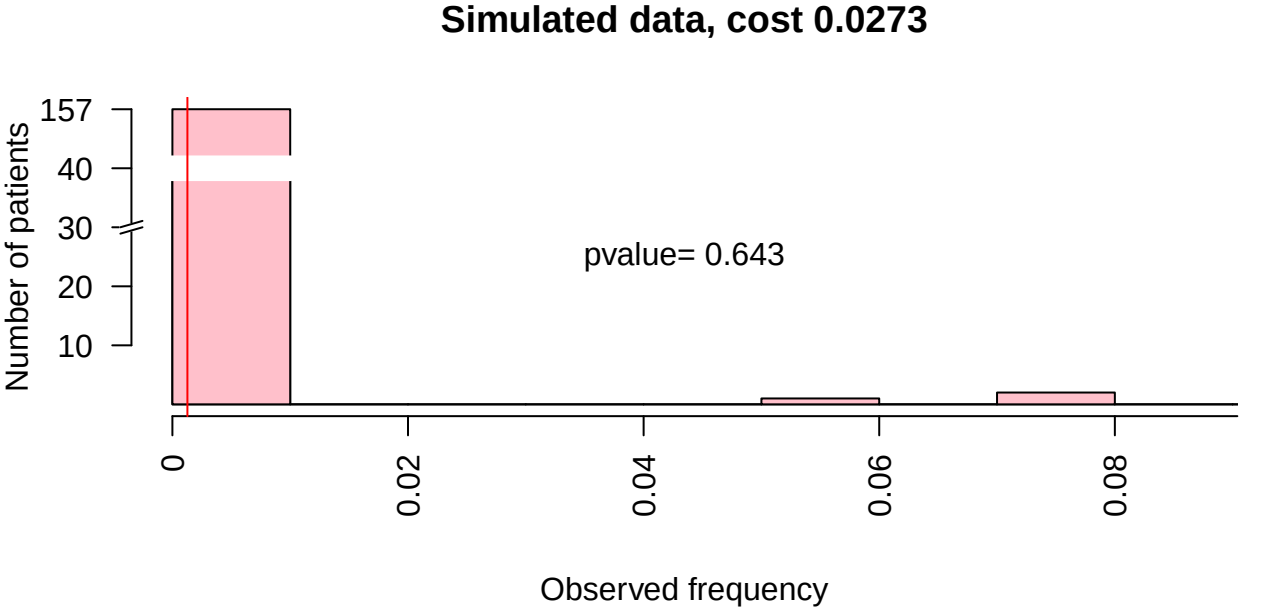

Single−SFS, site 288
Number of patients
133
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
0.24
Observed frequency

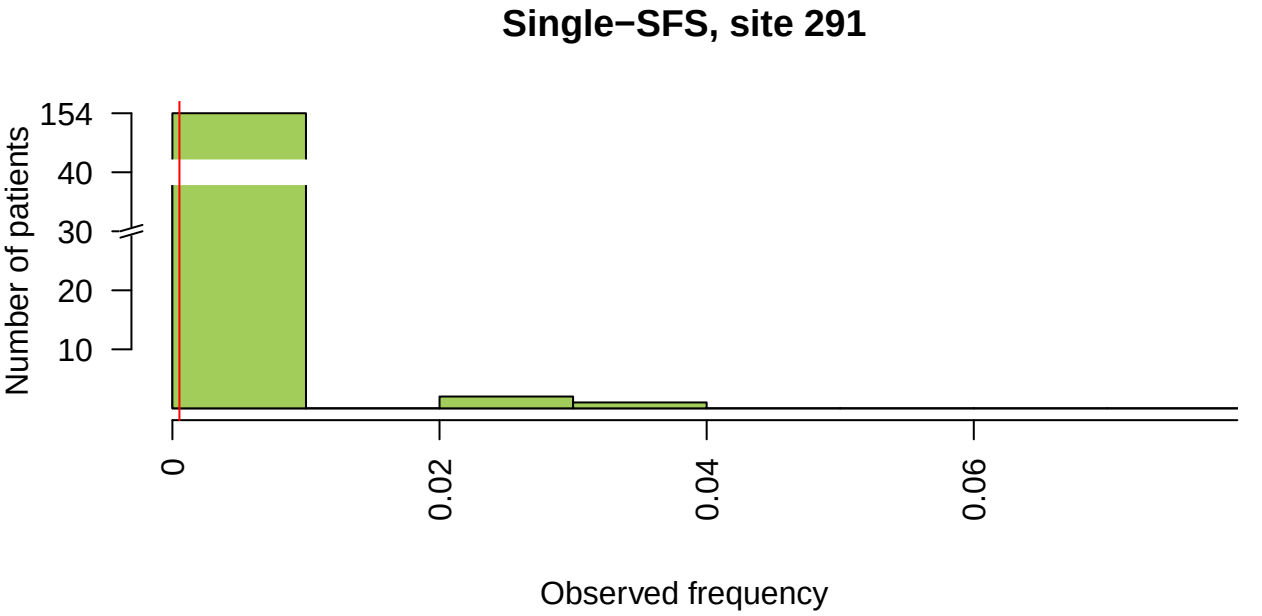

Simulated data, cost 0.0027
Number of patients
129
40
30
20
10
pvalue= 0.366
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
0.24
Observed frequency

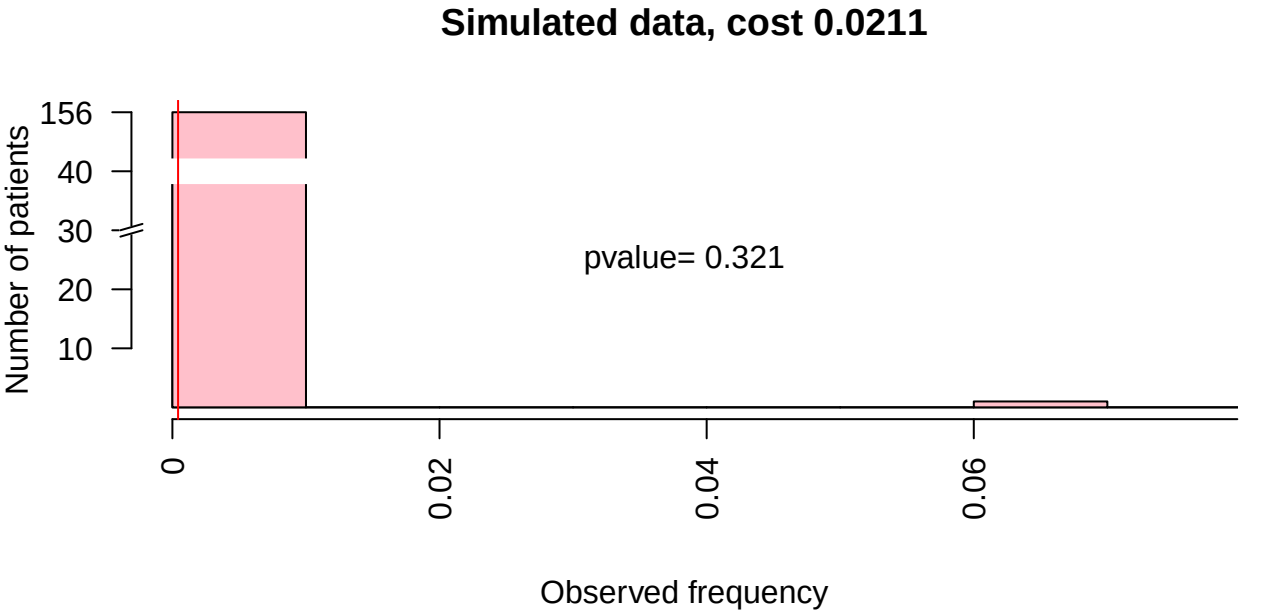

Single−SFS, site 289
Number of patients
132
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
0.24
0.26
0.28
0.3
0.32
0.34
0.36
0.38
0.4
0.42
0.44
0.46
0.48
0.5
0.52
0.54
0.56
0.58
0.6
Observed frequency

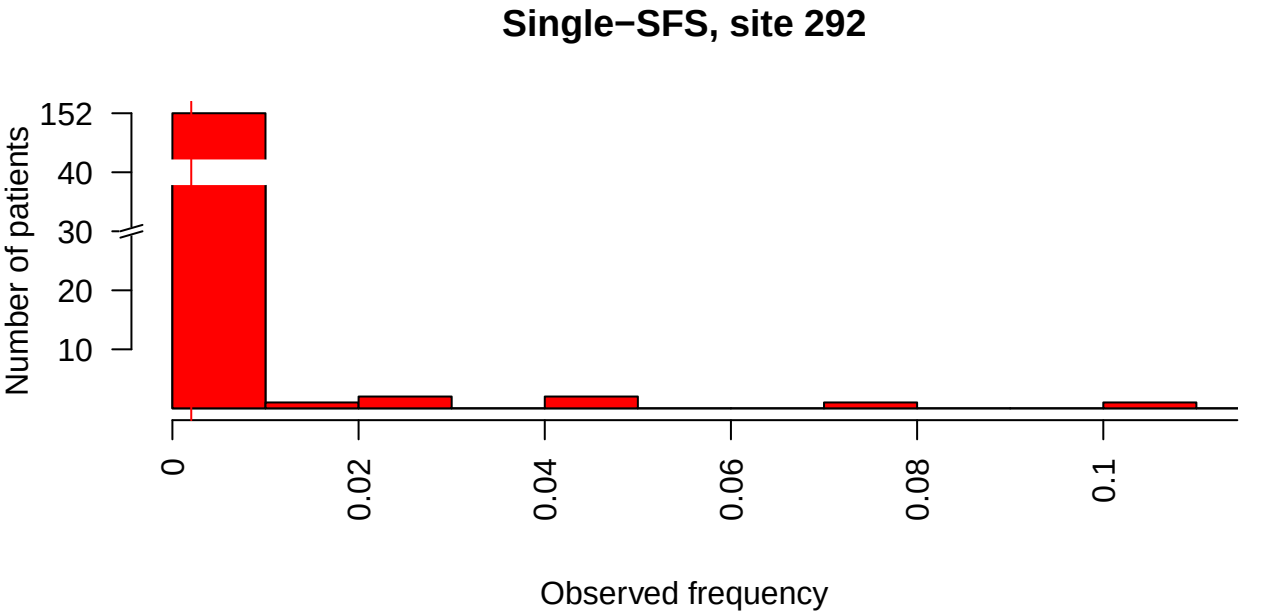

Simulated data, cost 0.0011
Number of patients
133
40
30
20
10
pvalue= 0.832
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
0.24
0.26
0.28
0.3
0.32
0.34
0.36
0.38
0.4
0.42
0.44
0.46
0.48
0.5
0.52
0.54
0.56
0.58
0.6
Observed frequency

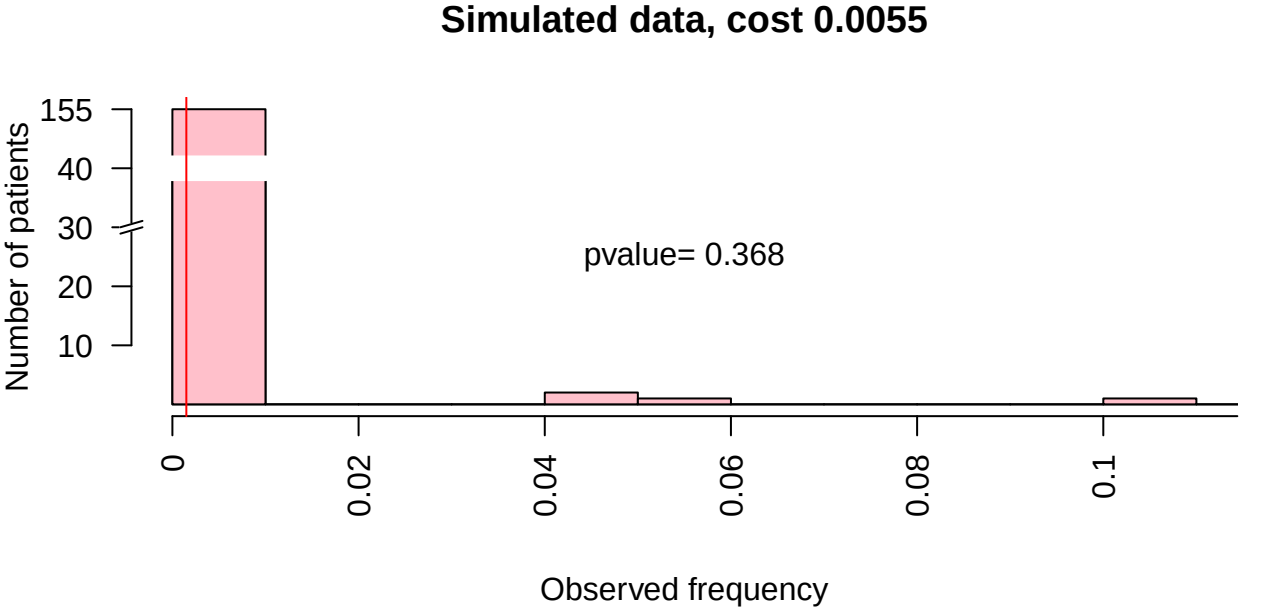

Single−SFS, site 290
Number of patients
158
40
30
20
10
0
0.02
0.04
0.06
0.08
Observed frequency

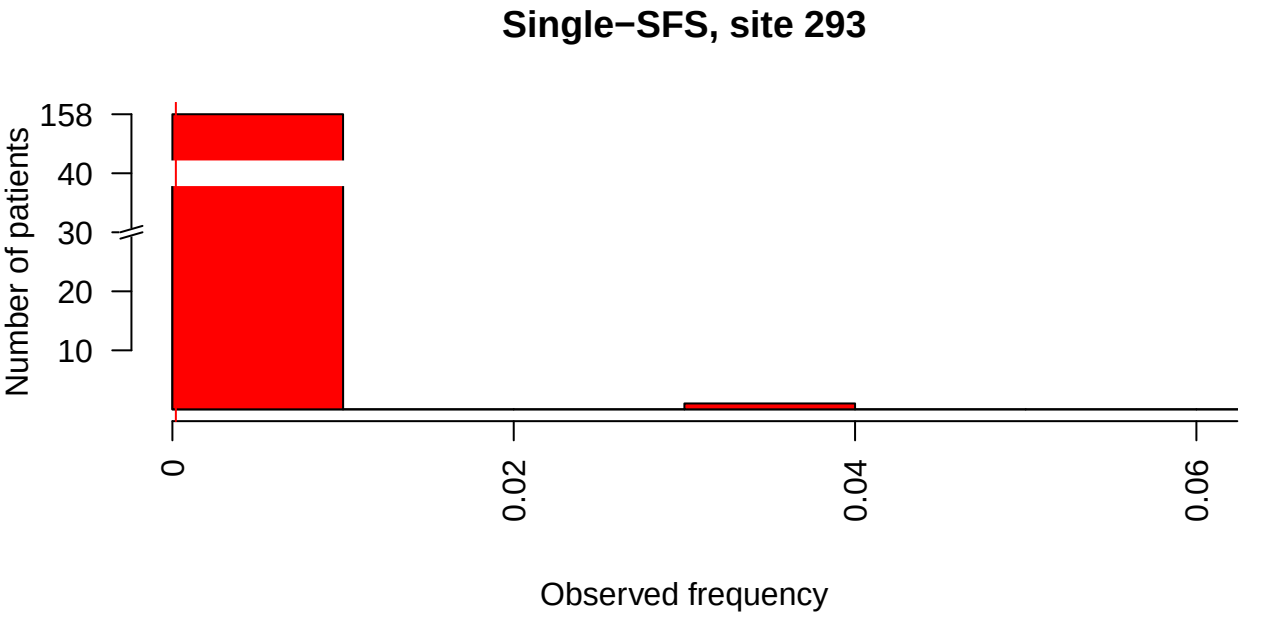

Simulated data, cost 0.0273
Number of patients
157
40
30
20
10
pvalue= 0.643
0
0.02
0.04
0.06
0.08
Observed frequency

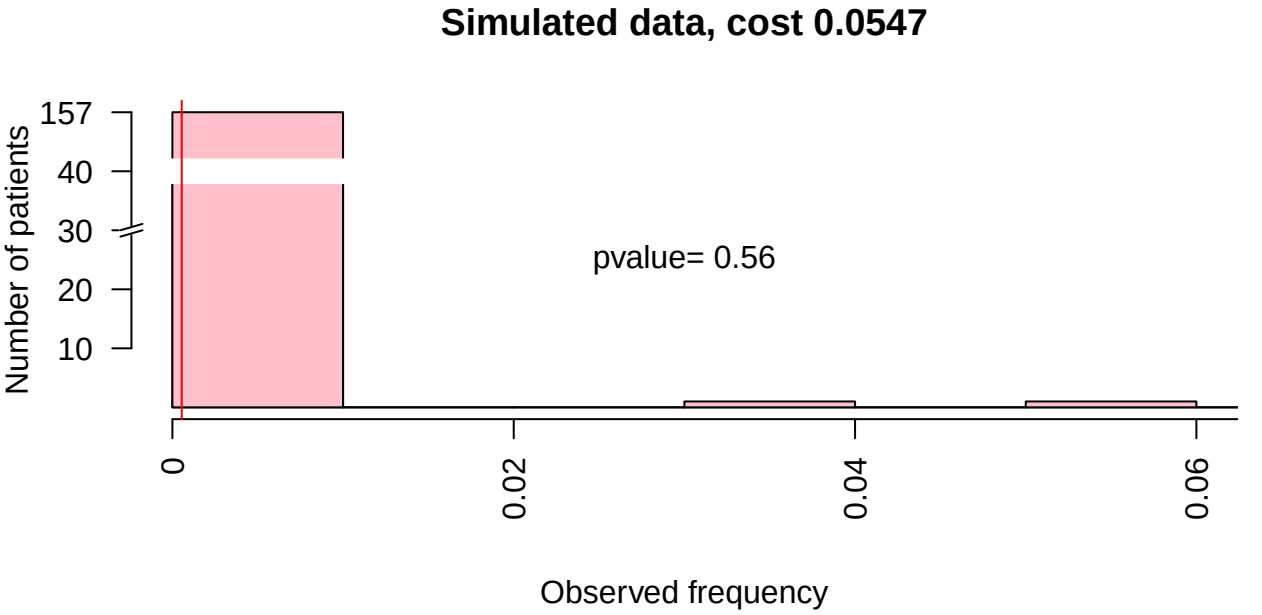

Single−SFS, site 291
Number of patients
154
40
30
20
10
0
0.02
0.04
0.06
Observed frequency

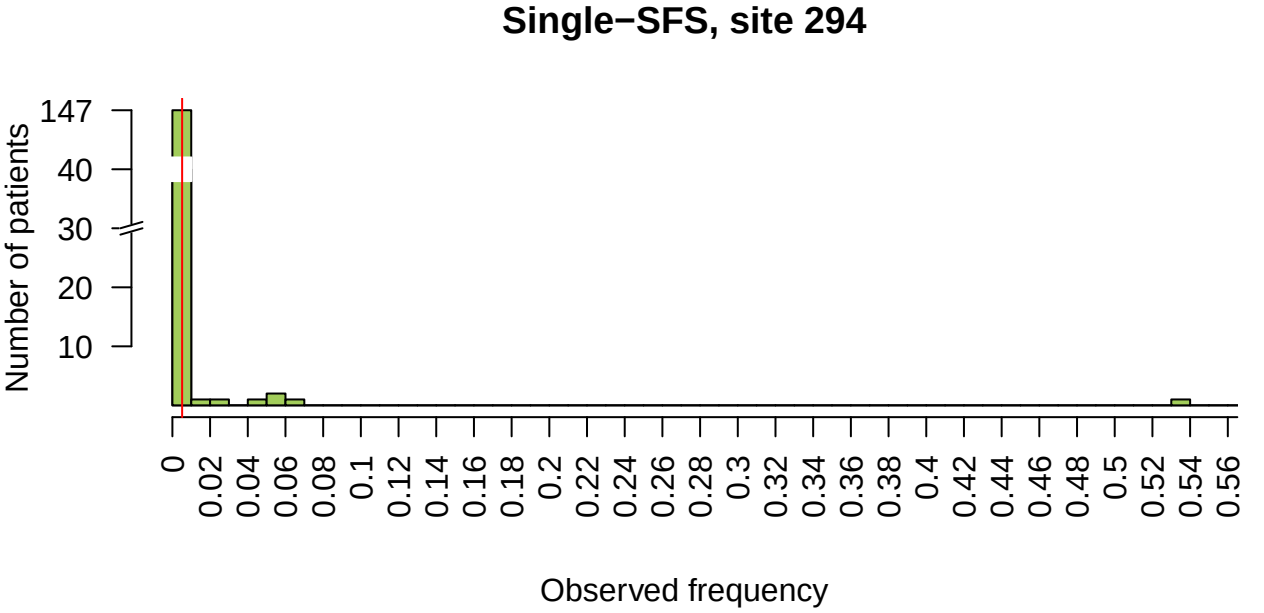

Simulated data, cost 0.0211
Number of patients
156
40
30
20
10
pvalue= 0.321
0
0.02
0.04
0.06
Observed frequency

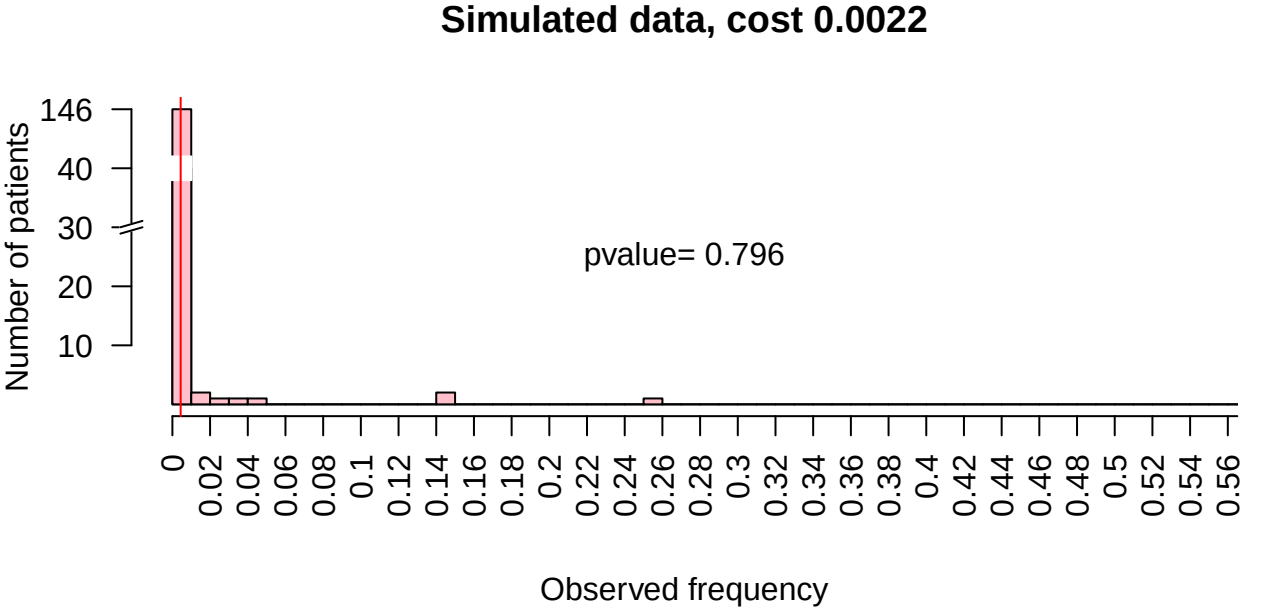

Single−SFS, site 292
Number of patients
152
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
Observed frequency

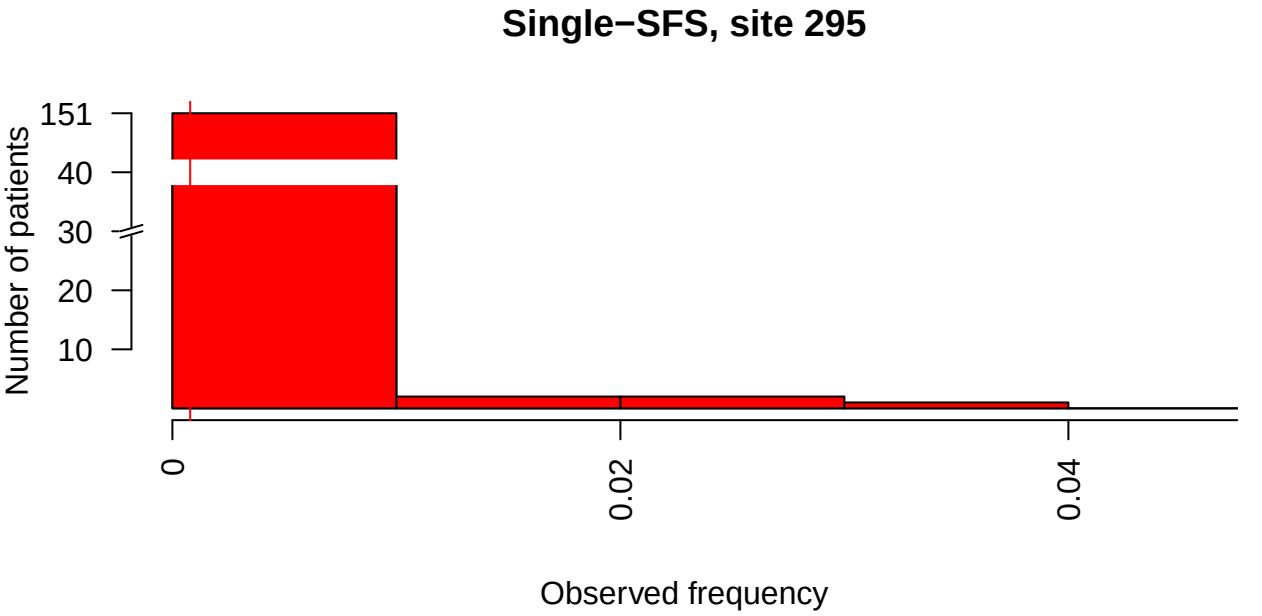

Simulated data, cost 0.0055
Number of patients
155
40
30
20
10
pvalue= 0.368
0
0.02
0.04
0.06
0.08
0.1
Observed frequency

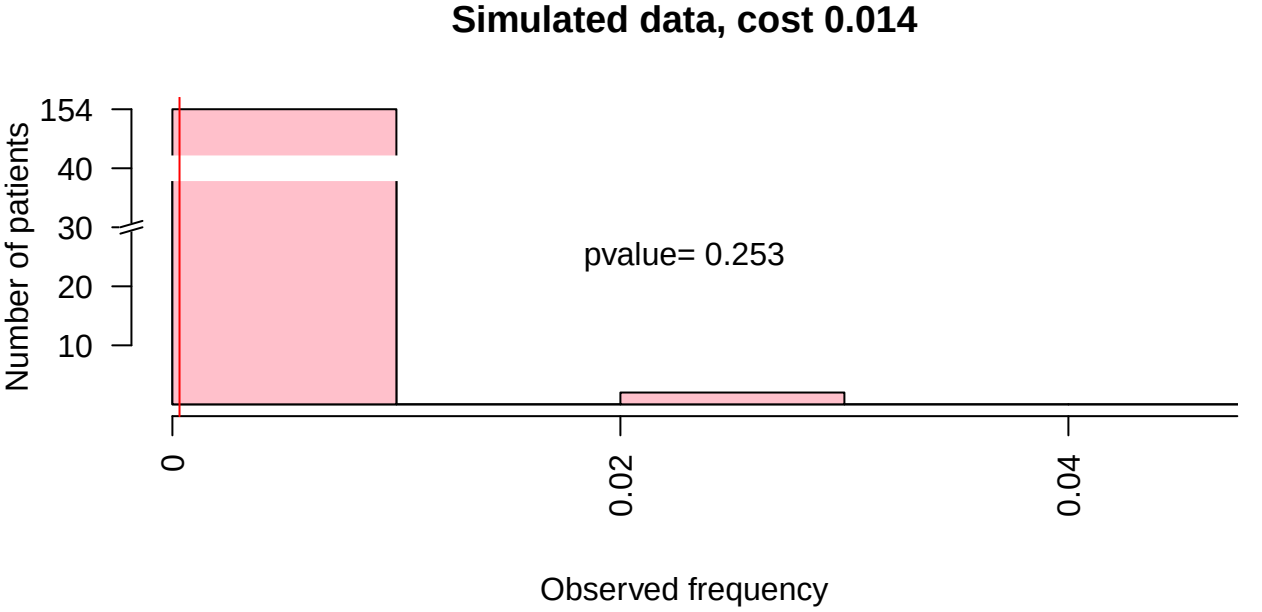

Single−SFS, site 293
Number of patients
158
40
30
20
10
0
0.02
0.04
0.06
Observed frequency

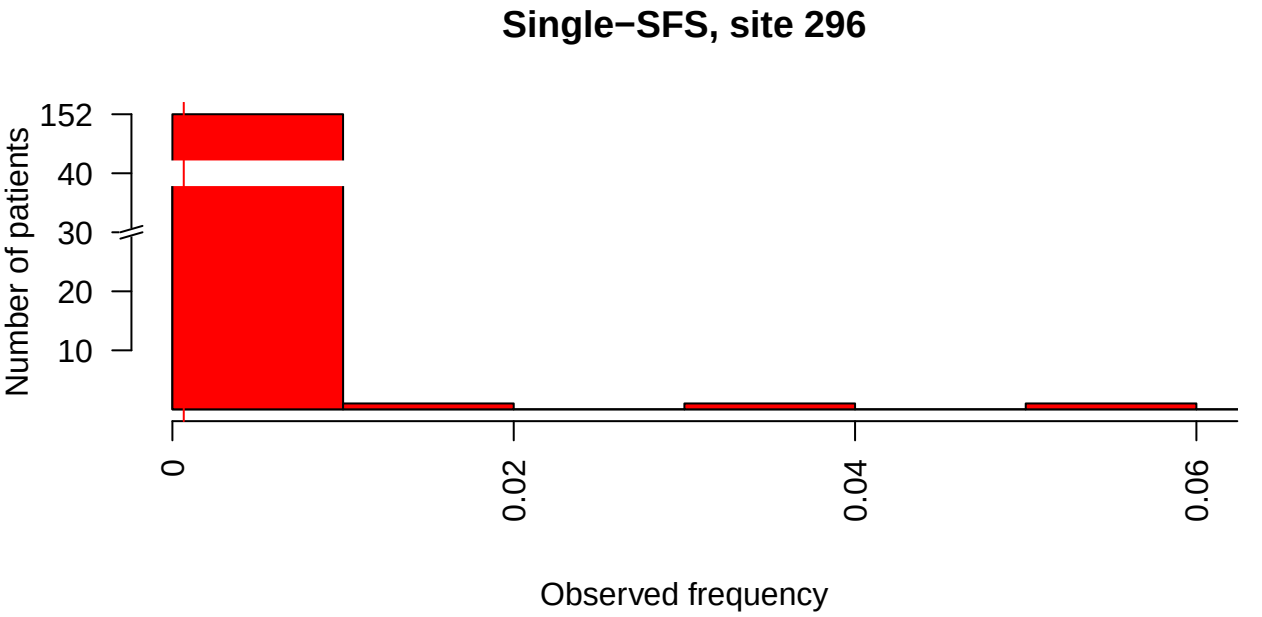

Simulated data, cost 0.0547
Number of patients
157
40
30
20
10
pvalue= 0.56
0
0.02
0.04
0.06
Observed frequency

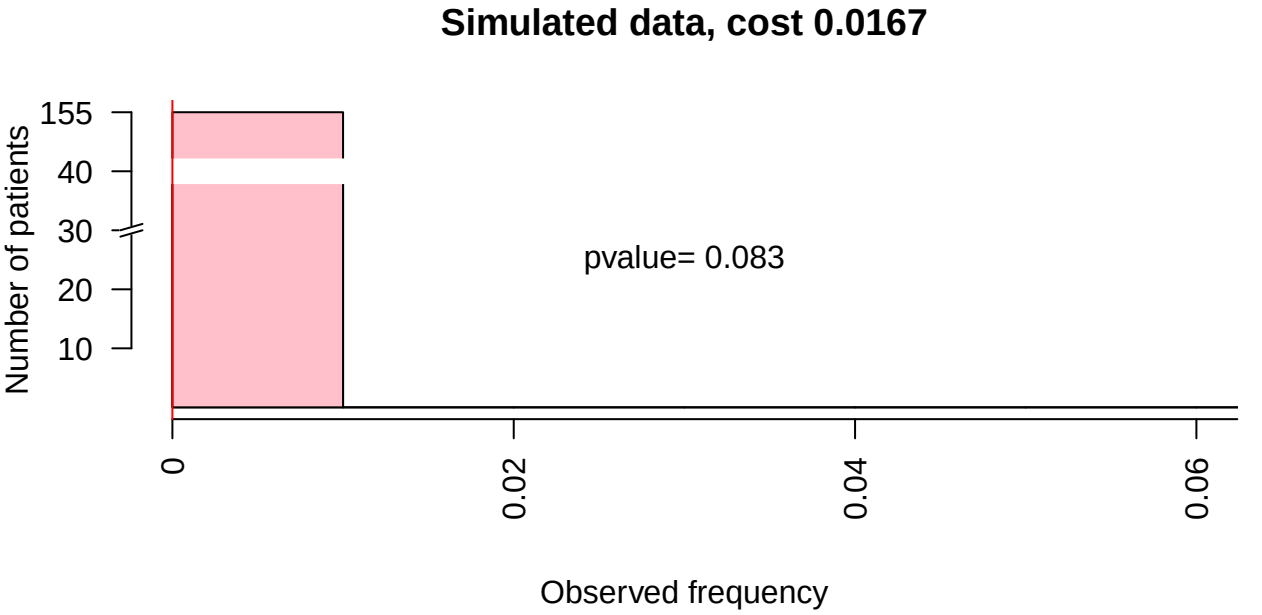

Single−SFS, site 294
Number of patients
147
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
0.24
0.26
0.28
0.3
0.32
0.34
0.36
0.38
0.4
0.42
0.44
0.46
0.48
0.5
0.52
0.54
0.56
Observed frequency

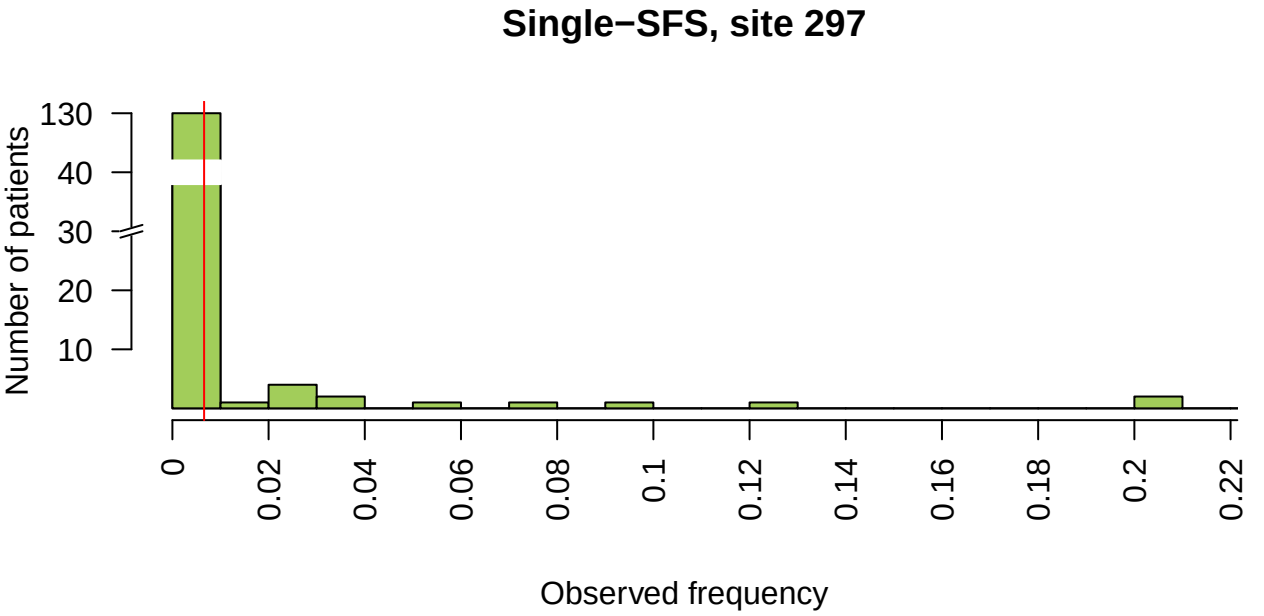

Simulated data, cost 0.0022
Number of patients
146
40
30
20
10
pvalue= 0.796
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
0.24
0.26
0.28
0.3
0.32
0.34
0.36
0.38
0.4
0.42
0.44
0.46
0.48
0.5
0.52
0.54
0.56
Observed frequency

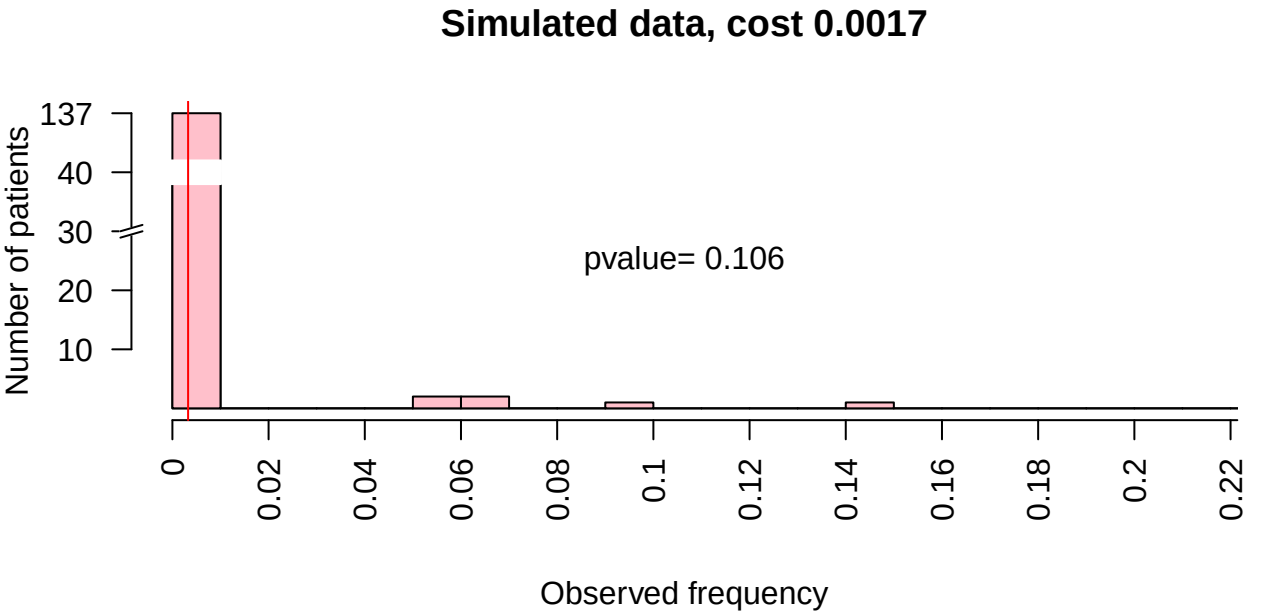

Single−SFS, site 295
Number of patients
151
40
30
20
10
0
0.02
0.04
Observed frequency

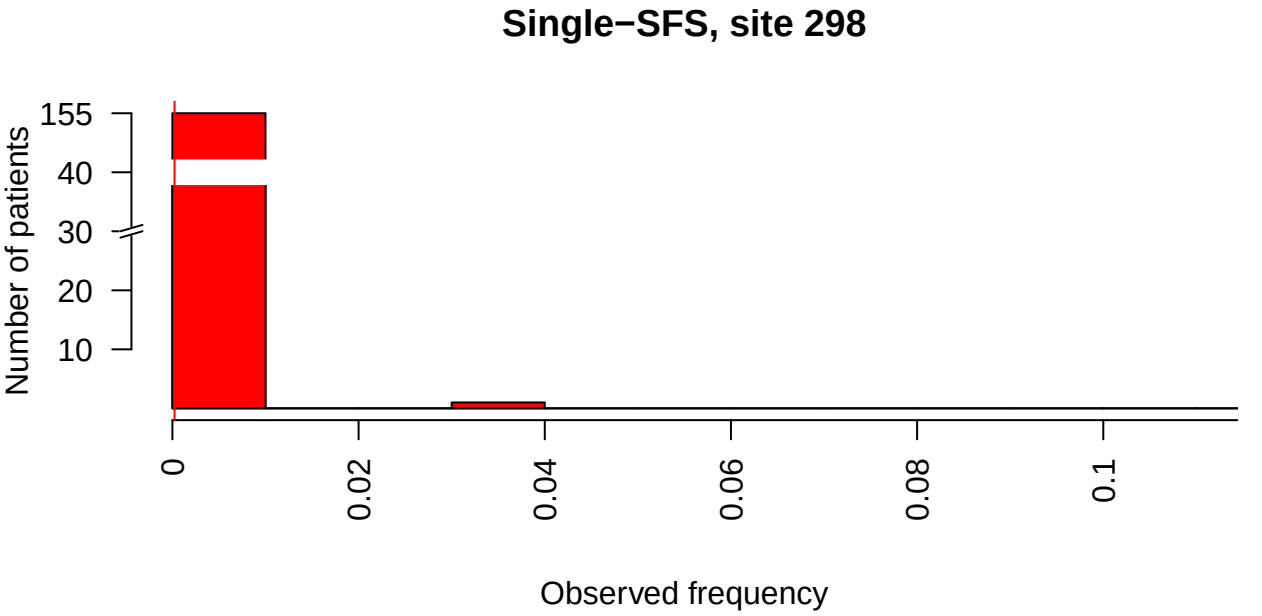

Simulated data, cost 0.014
Number of patients
154
40
30
20
10
pvalue= 0.253
0
0.02
0.04
Observed frequency

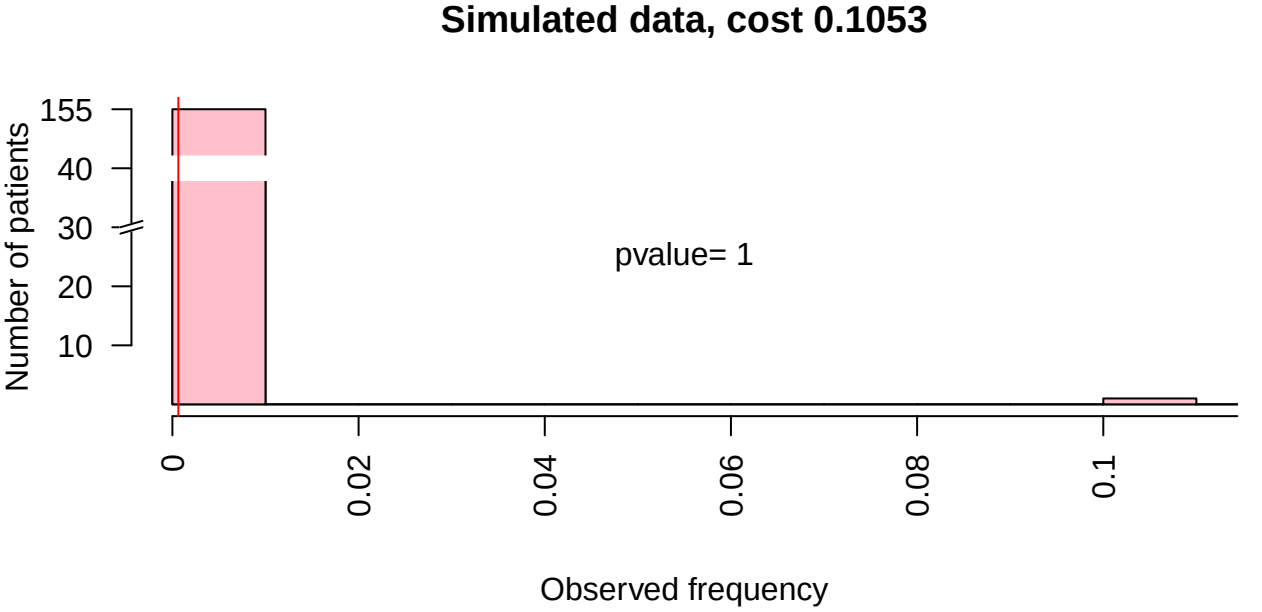

Single−SFS, site 296
Number of patients
152
40
30
20
10
0
0.02
0.04
0.06
Observed frequency

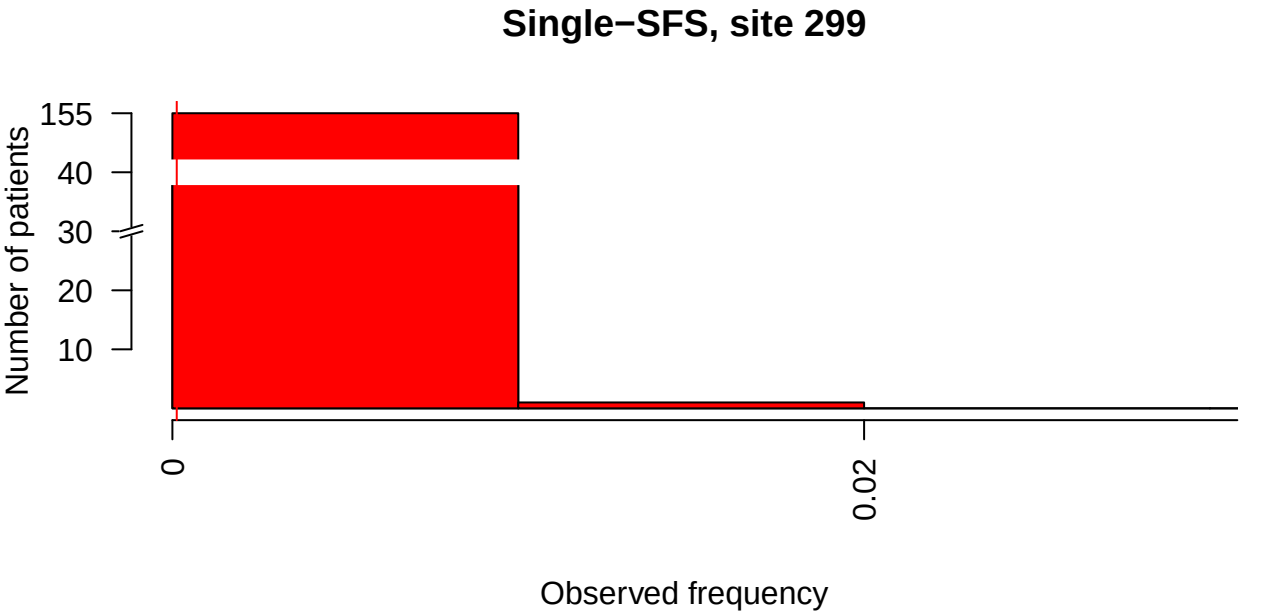

Simulated data, cost 0.0167
Number of patients
155
40
30
20
10
pvalue= 0.083
0
0.02
0.04
0.06
Observed frequency

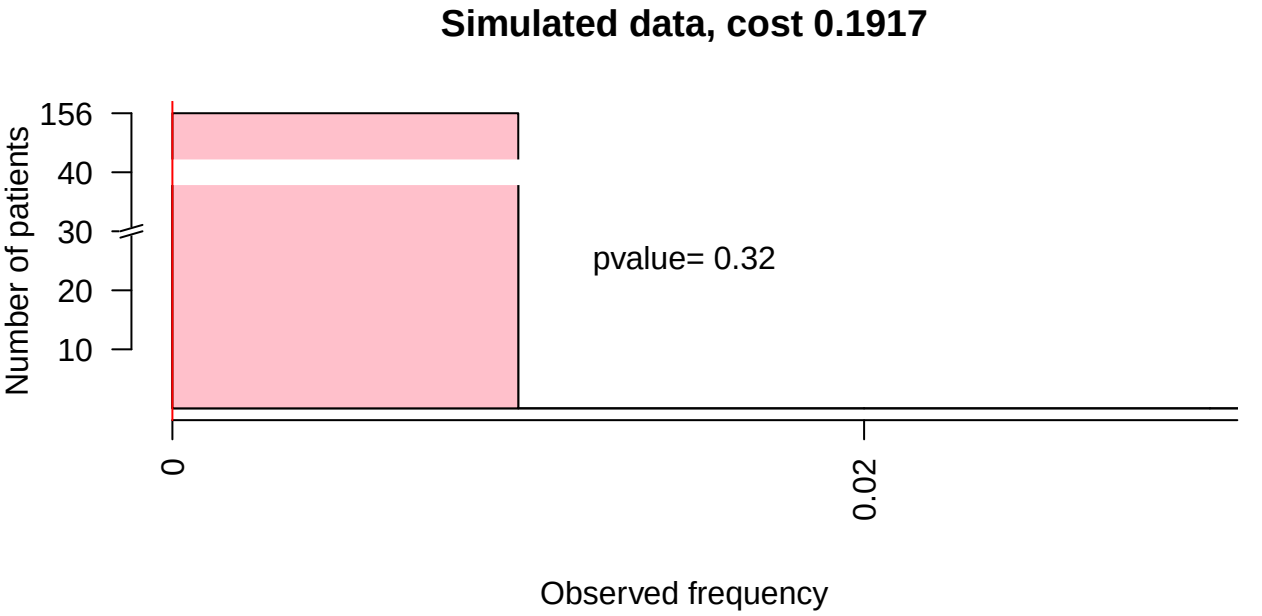

Single−SFS, site 297
Number of patients
130
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
Observed frequency

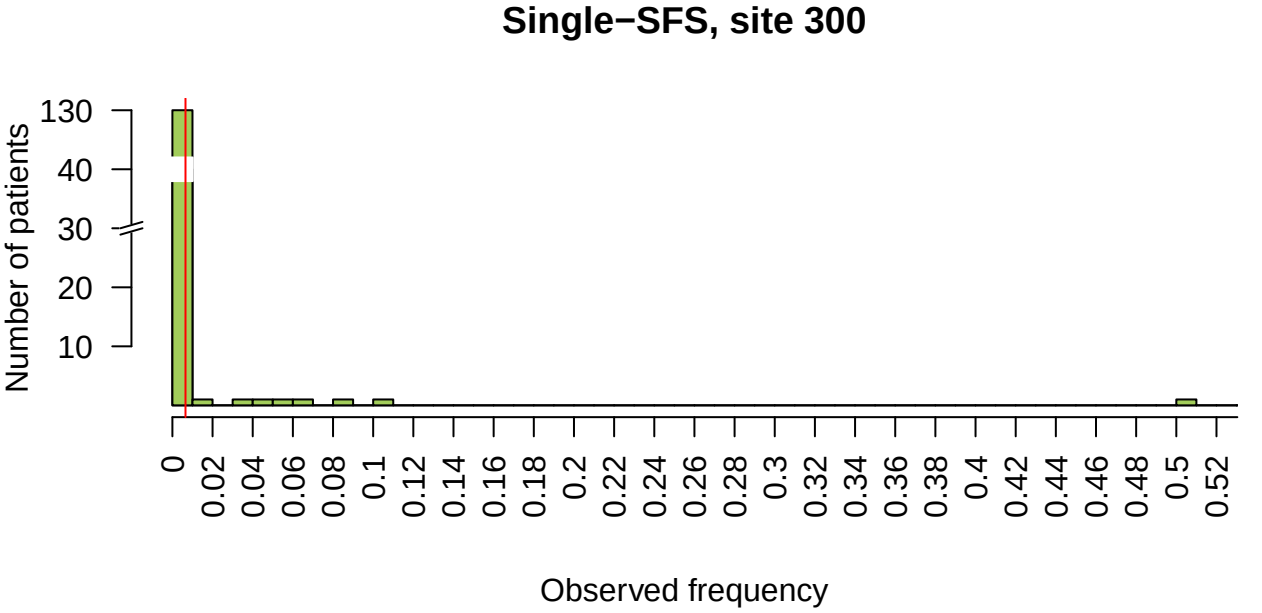

Simulated data, cost 0.0017
Number of patients
137
40
30
20
10
pvalue= 0.106
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
Observed frequency

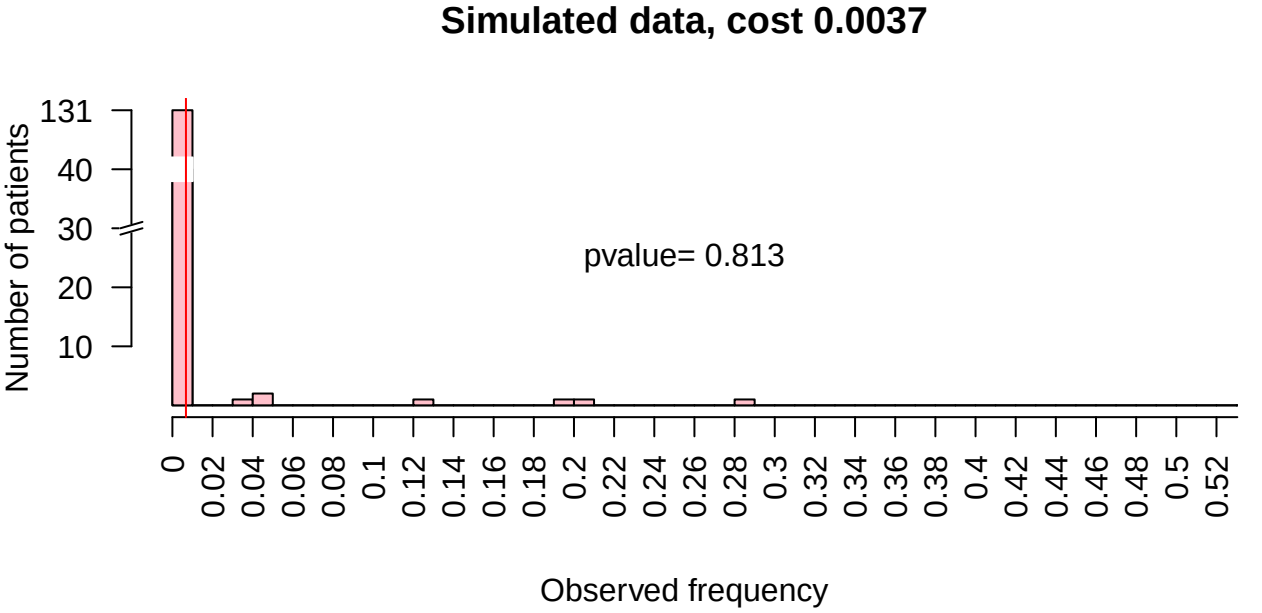

Single−SFS, site 298
Number of patients
155
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
Observed frequency

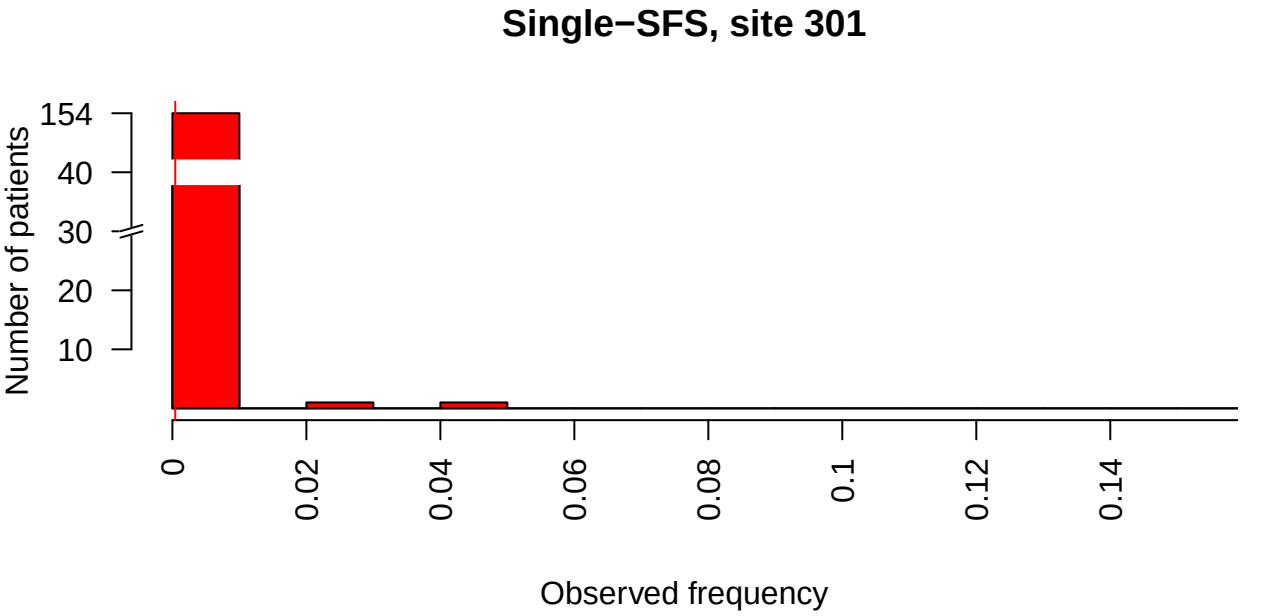

Simulated data, cost 0.1053
Number of patients
155
40
30
20
10
pvalue= 1
0
0.02
0.04
0.06
0.08
0.1
Observed frequency

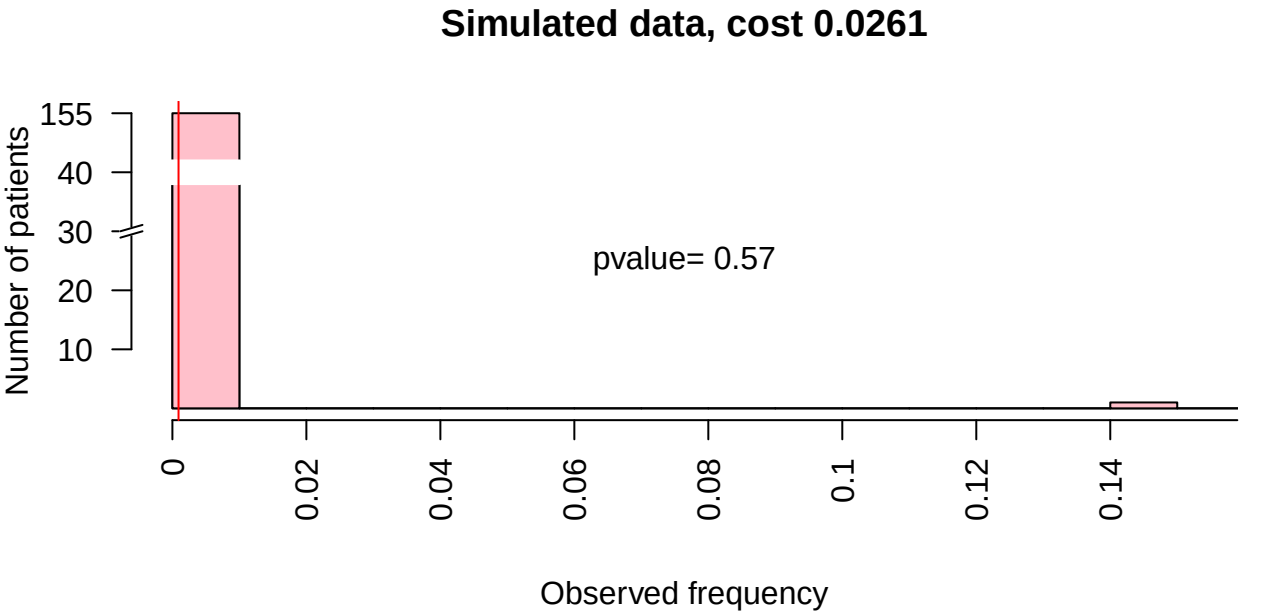

Single−SFS, site 299
Number of patients
155
40
30
20
10
0
0.02
Observed frequency

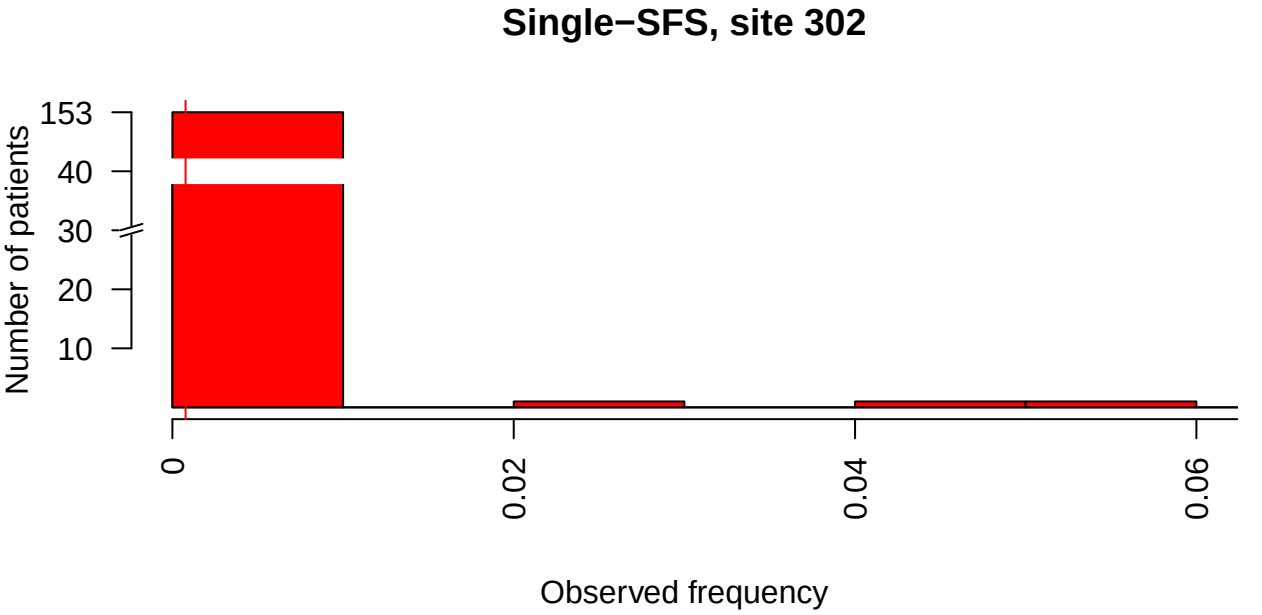

Simulated data, cost 0.1917
Number of patients
156
40
30
20
10
pvalue= 0.32
0
0.02
Observed frequency

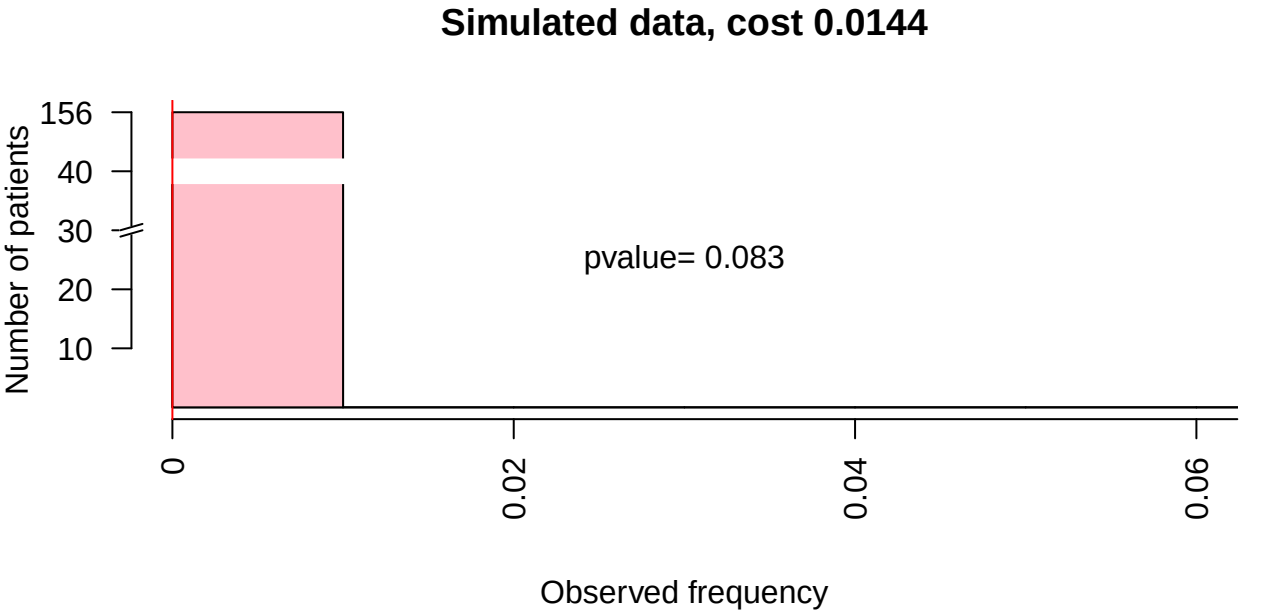

Single−SFS, site 300
Number of patients
130
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
0.24
0.26
0.28
0.3
0.32
0.34
0.36
0.38
0.4
0.42
0.44
0.46
0.48
0.5
0.52
Observed frequency

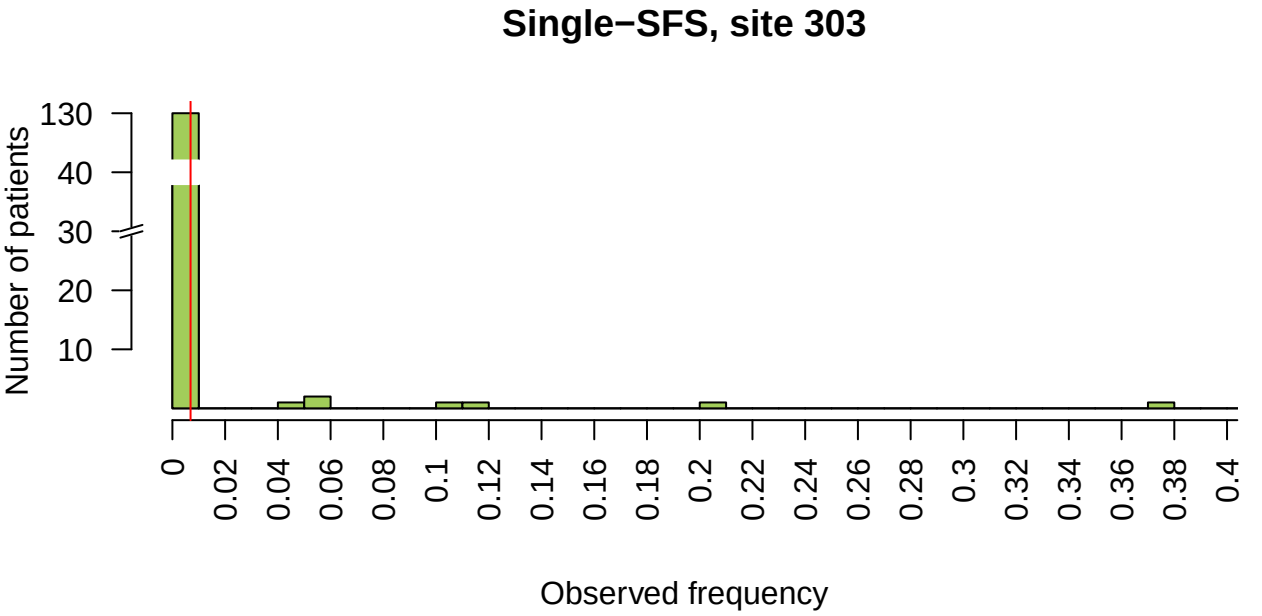

Simulated data, cost 0.0037
Number of patients
131
40
30
20
10
pvalue= 0.813
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
0.24
0.26
0.28
0.3
0.32
0.34
0.36
0.38
0.4
0.42
0.44
0.46
0.48
0.5
0.52
Observed frequency

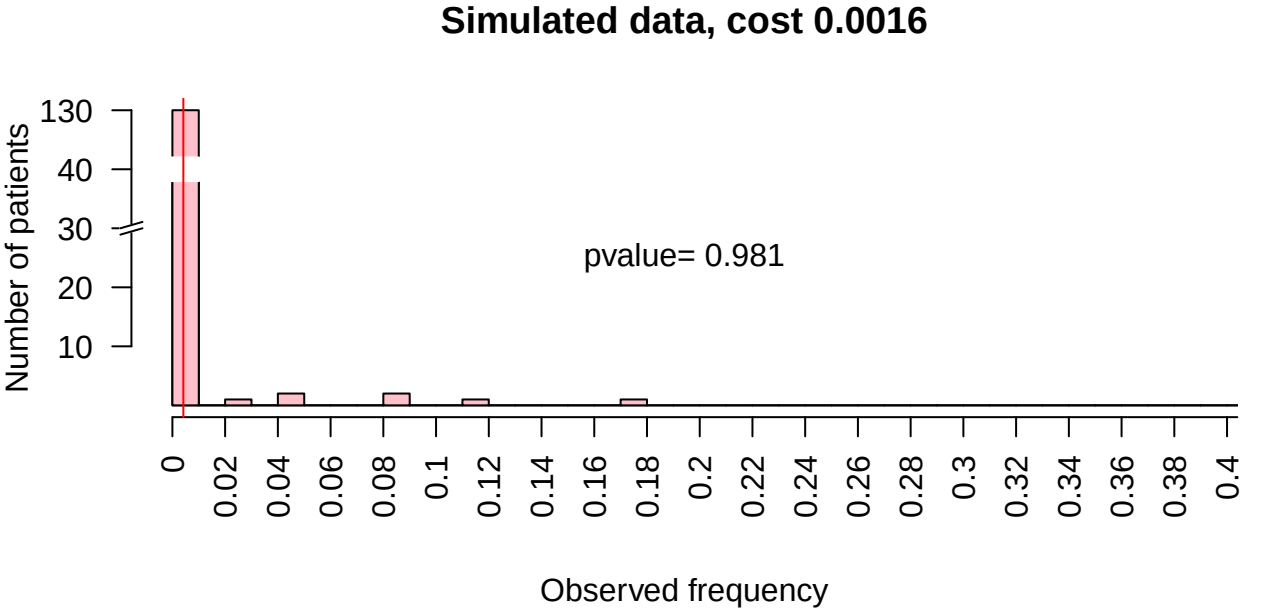

Single−SFS, site 301
Number of patients
154
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
Observed frequency

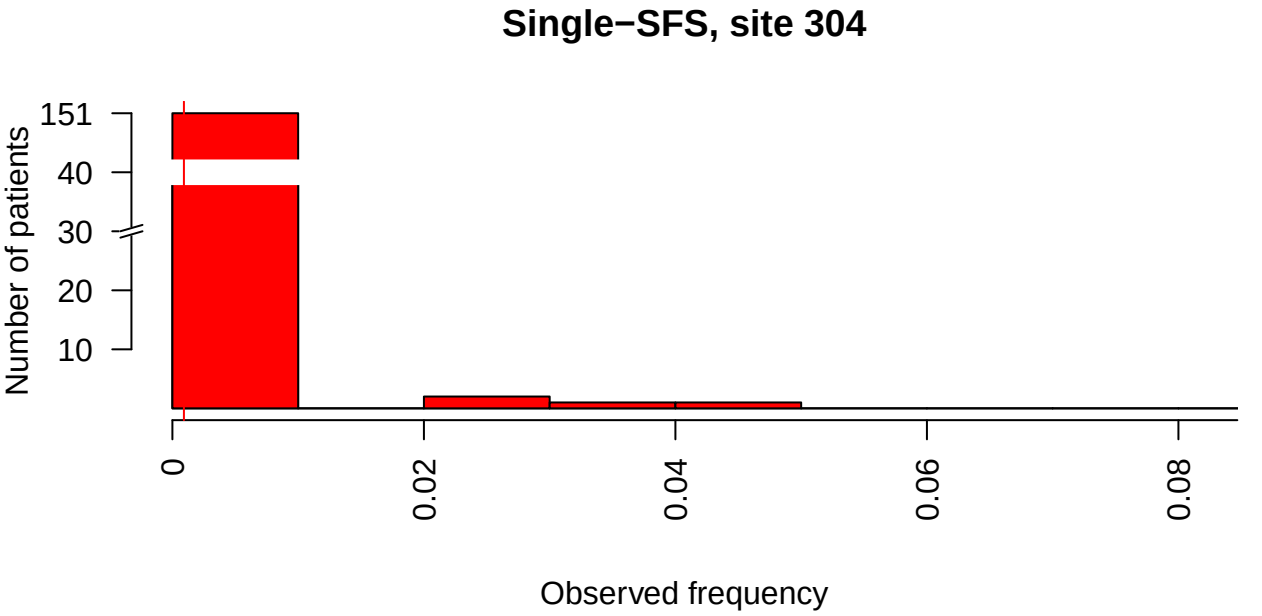

Simulated data, cost 0.0261
Number of patients
155
40
30
20
10
pvalue= 0.57
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
Observed frequency

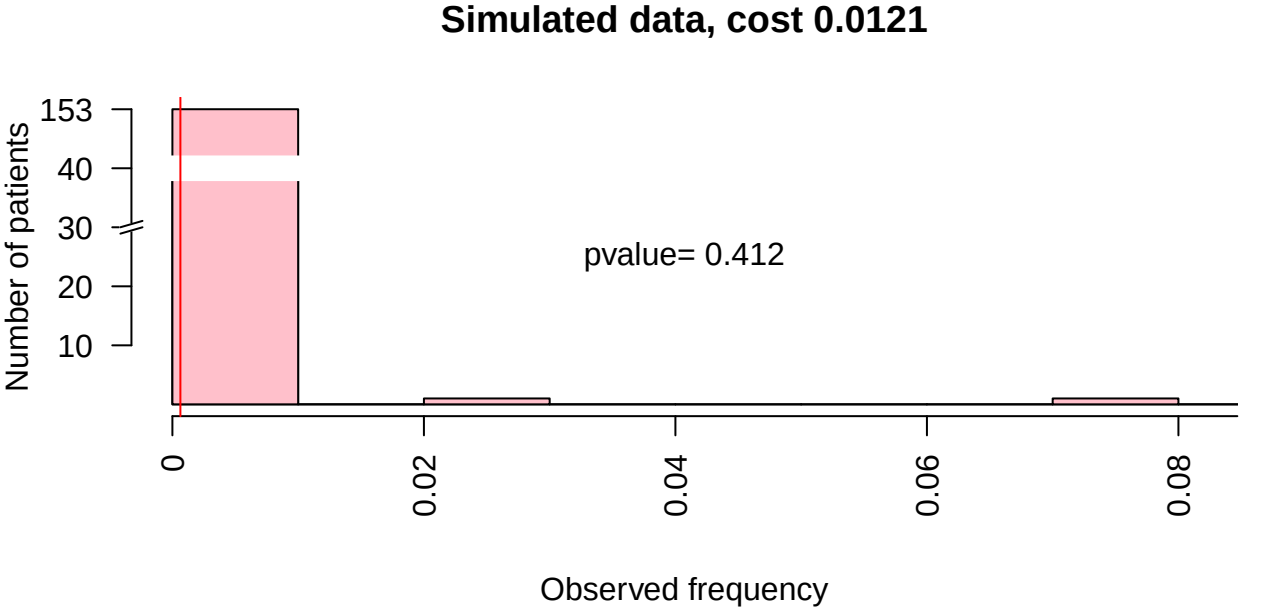

Single−SFS, site 302
Number of patients
153
40
30
20
10
0
0.02
0.04
0.06
Observed frequency

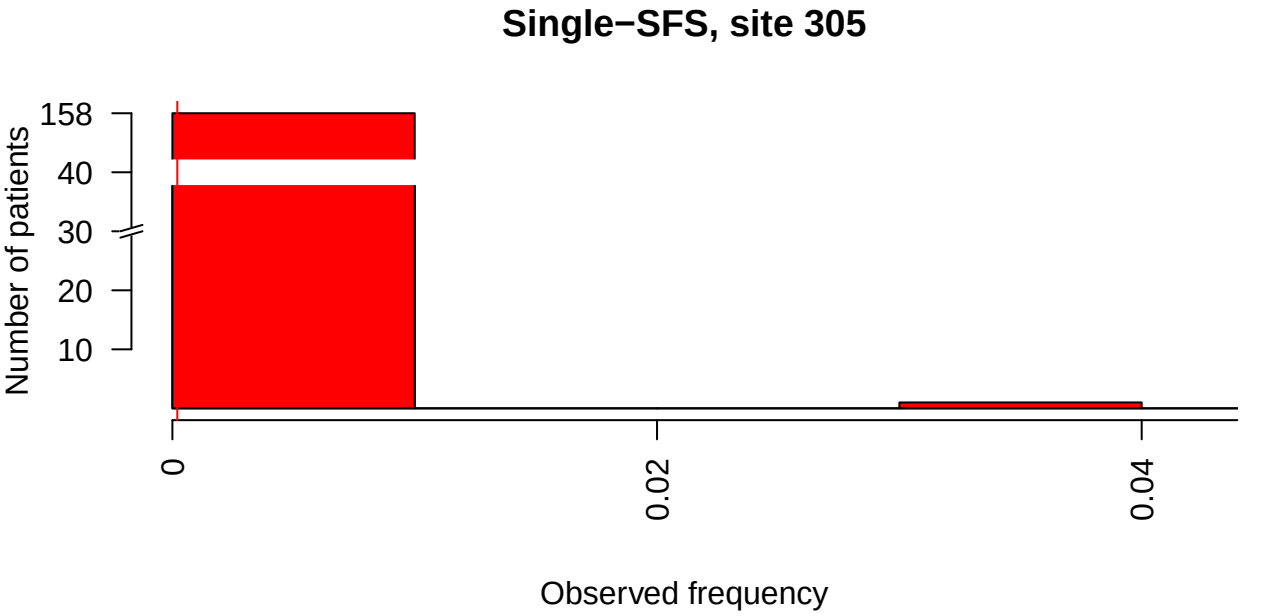

Simulated data, cost 0.0144
Number of patients
156
40
30
20
10
pvalue= 0.083
0
0.02
0.04
0.06
Observed frequency

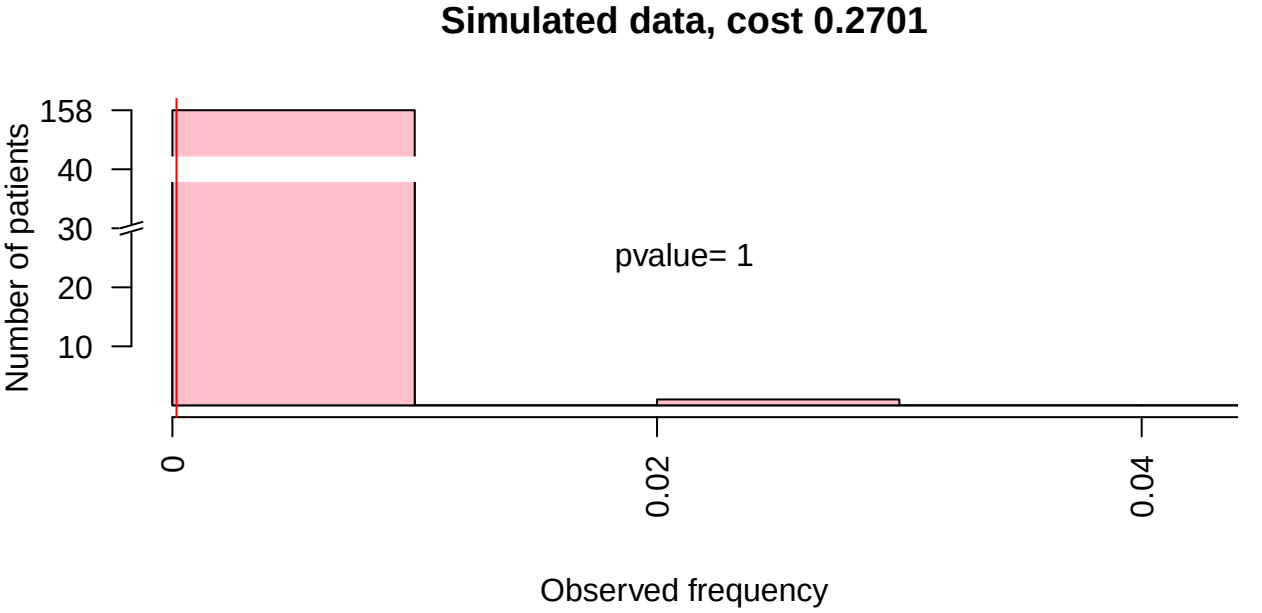

Single−SFS, site 303
Number of patients
130
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
0.24
0.26
0.28
0.3
0.32
0.34
0.36
0.38
0.4
Observed frequency

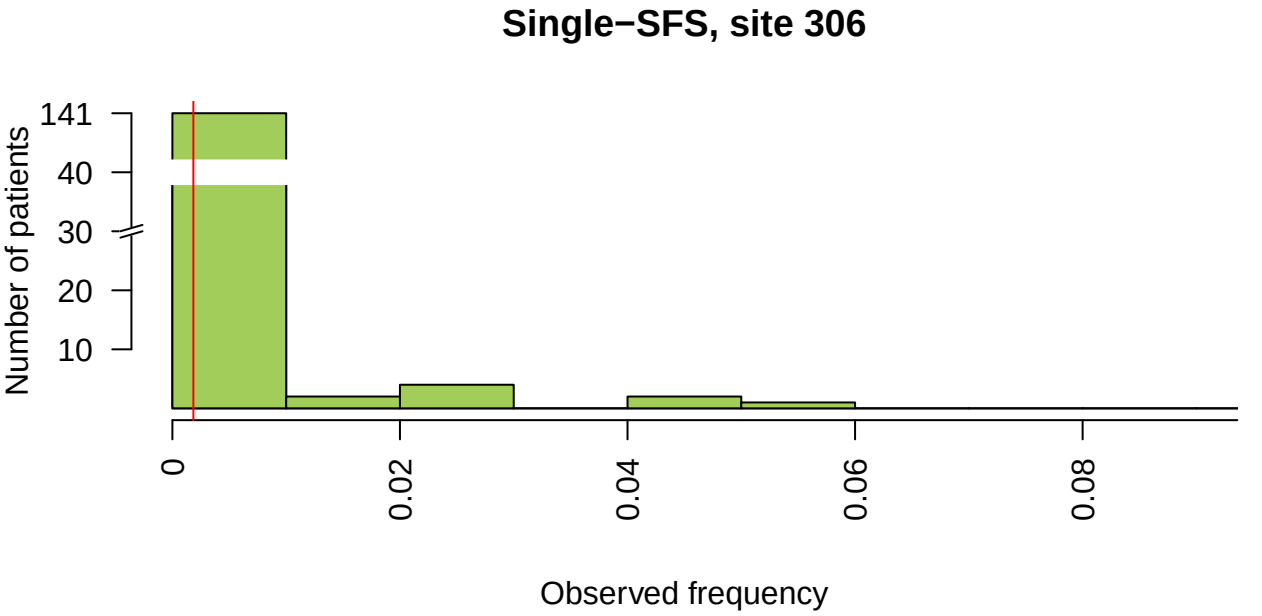

Simulated data, cost 0.0016
Number of patients
130
40
30
20
10
pvalue= 0.981
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
0.24
0.26
0.28
0.3
0.32
0.34
0.36
0.38
0.4
Observed frequency

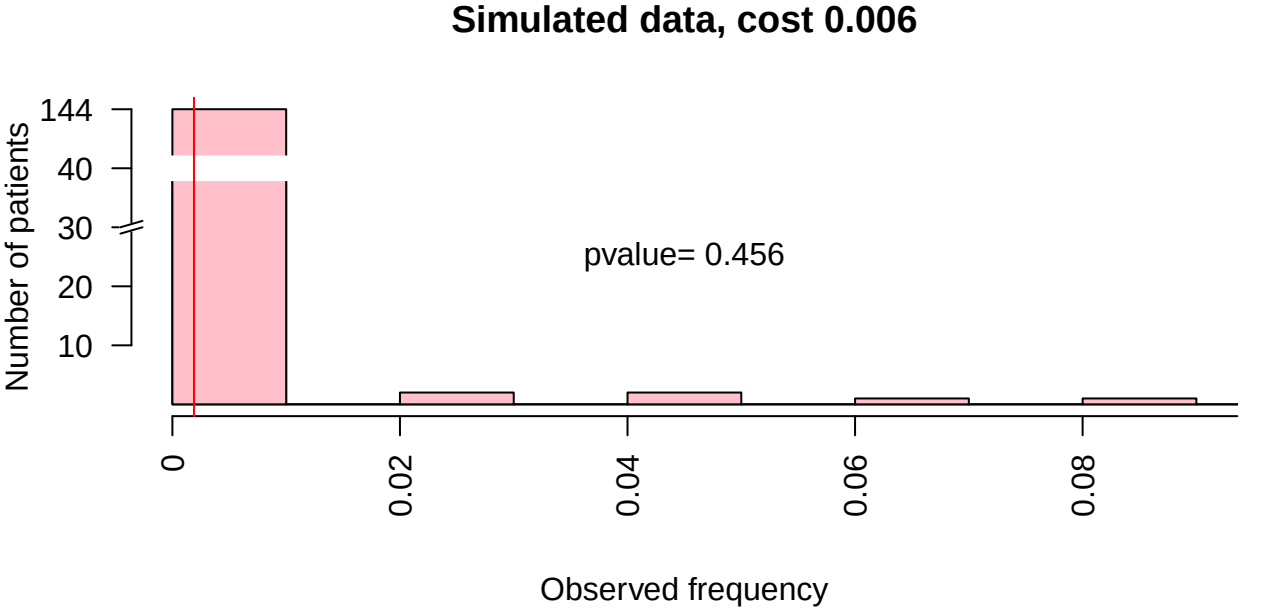

Single−SFS, site 304
Number of patients
151
40
30
20
10
0
0.02
0.04
0.06
0.08
Observed frequency

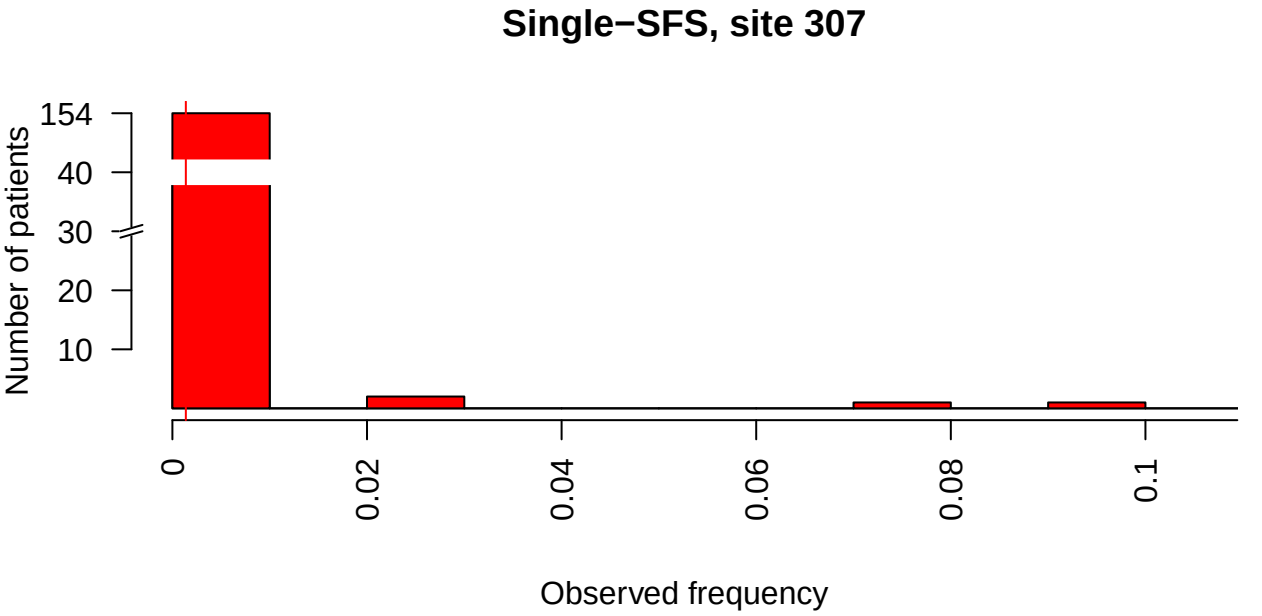

Simulated data, cost 0.0121
Number of patients
153
40
30
20
10
pvalue= 0.412
0
0.02
0.04
0.06
0.08
Observed frequency

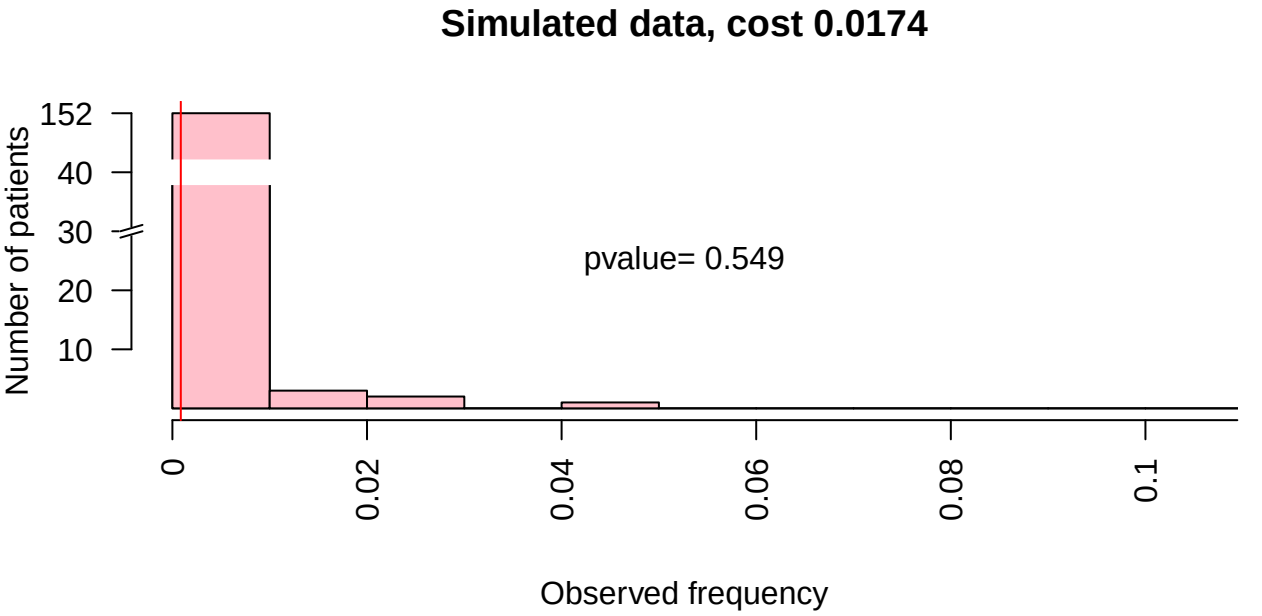

Single−SFS, site 305
Number of patients
158
40
30
20
10
0
0.02
0.04
Observed frequency

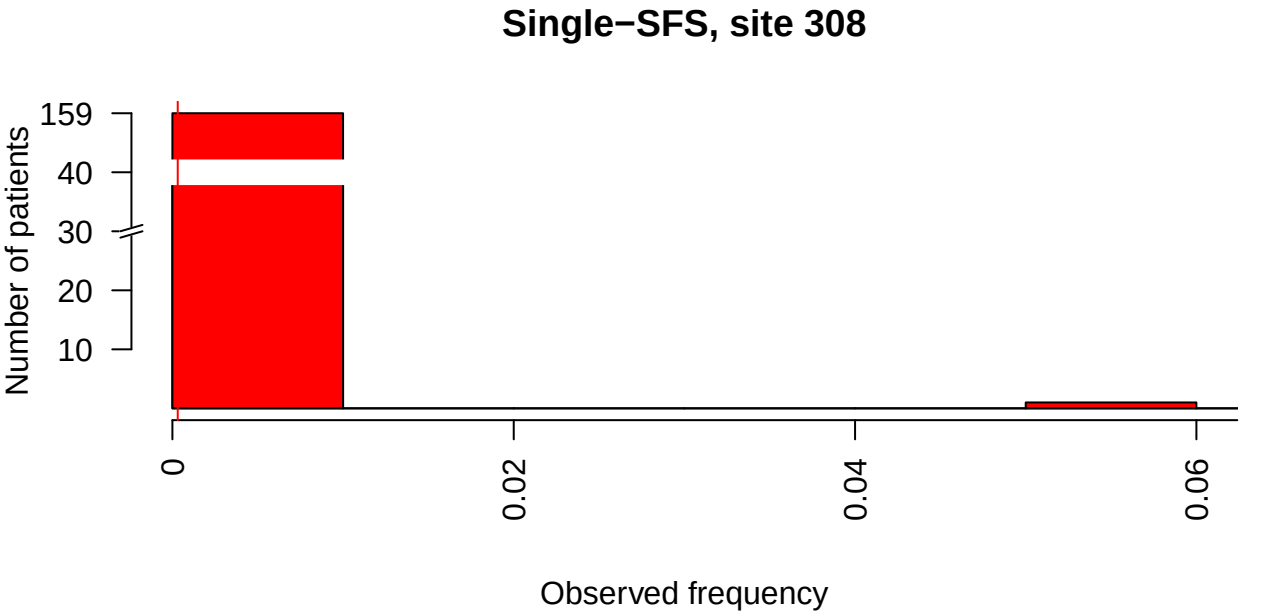

Simulated data, cost 0.2701
Number of patients
158
40
30
20
10
pvalue= 1
0
0.02
0.04
Observed frequency

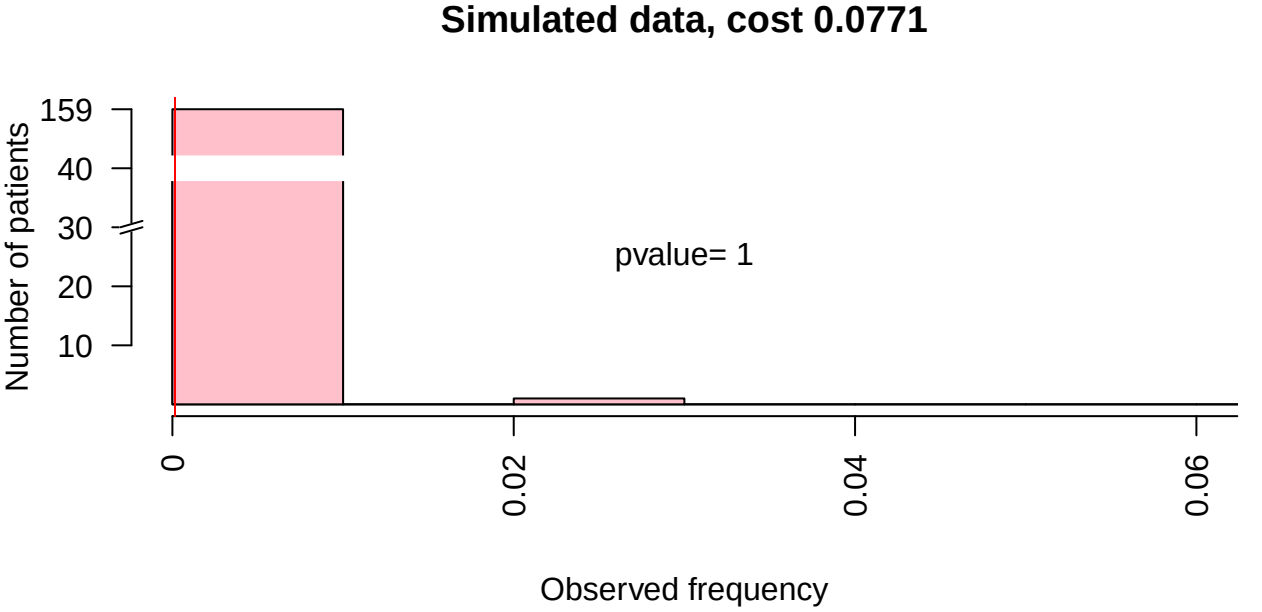

Single−SFS, site 306
Number of patients
141
40
30
20
10
0
0.02
0.04
0.06
0.08
Observed frequency

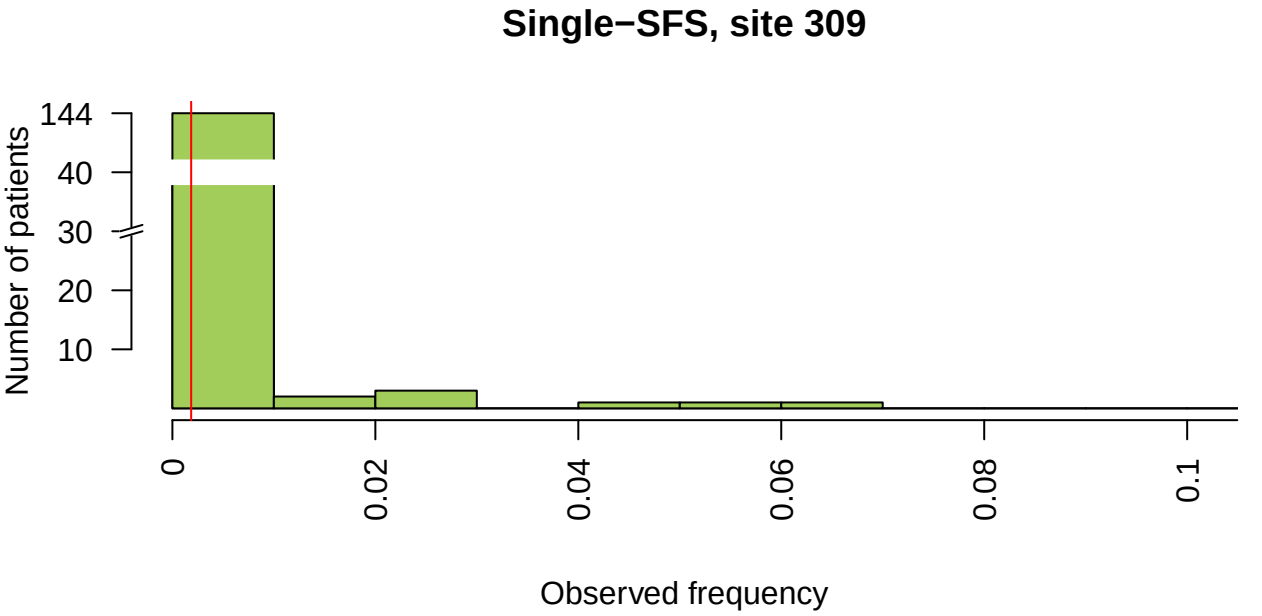

Simulated data, cost 0.006
Number of patients
144
40
30
20
10
pvalue= 0.456
0
0.02
0.04
0.06
0.08
Observed frequency

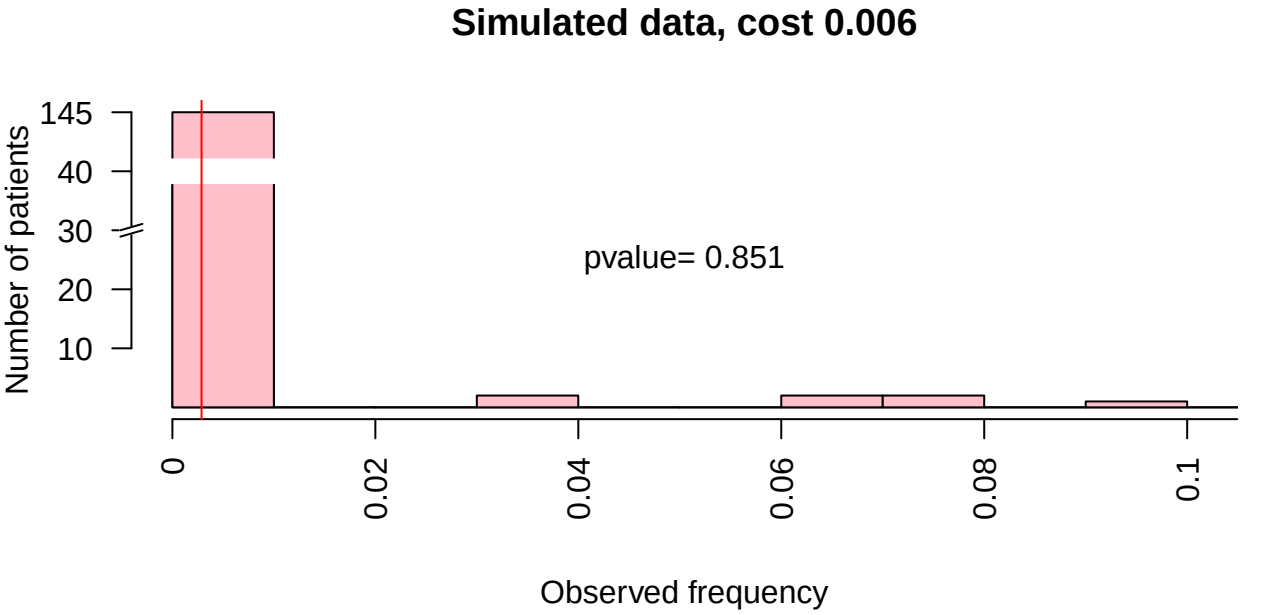

Single−SFS, site 307
Number of patients
154
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
Observed frequency

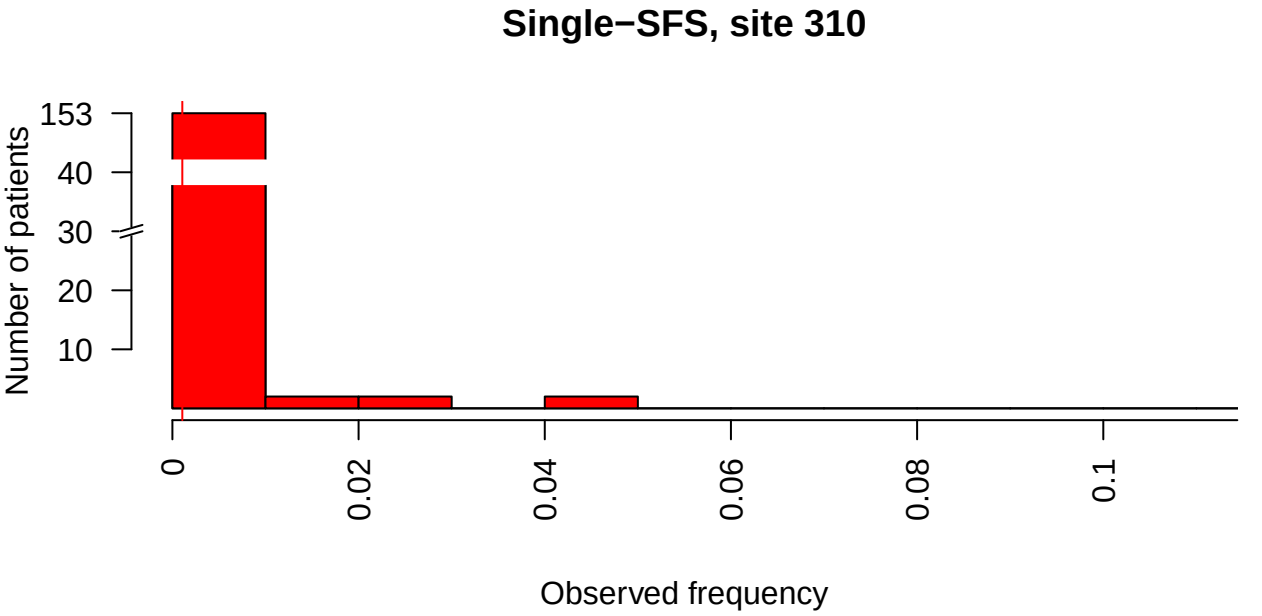

Simulated data, cost 0.0174
Number of patients
152
40
30
20
10
pvalue= 0.549
0
0.02
0.04
0.06
0.08
0.1
Observed frequency

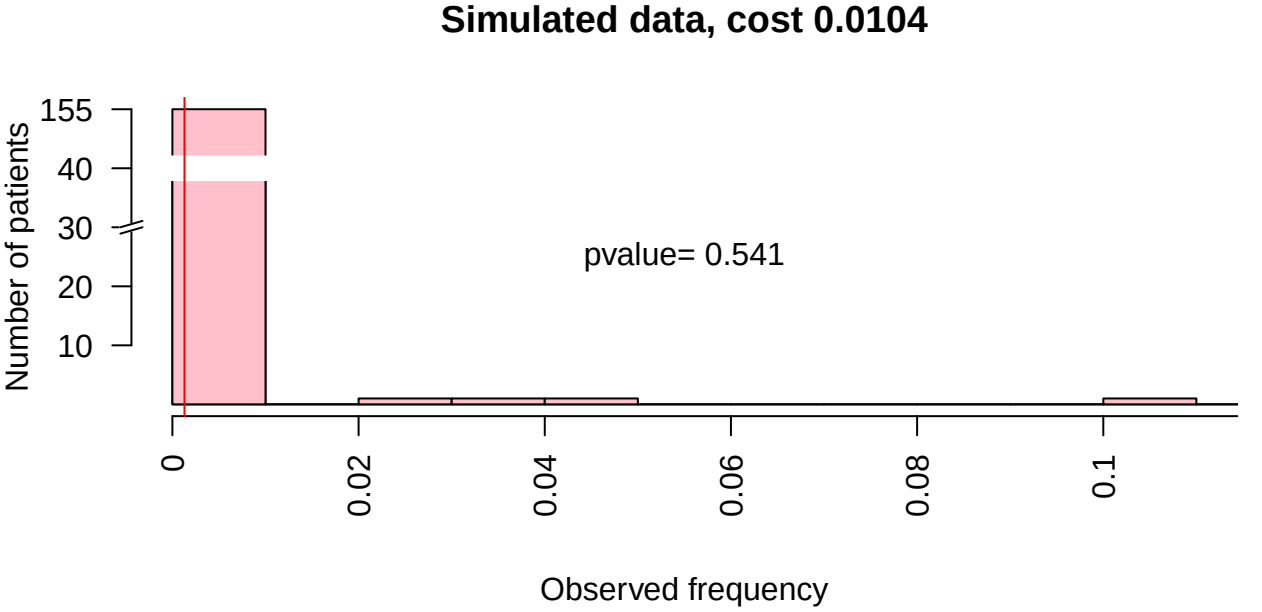

Single−SFS, site 308
Number of patients
159
40
30
20
10
0
0.02
0.04
0.06
Observed frequency

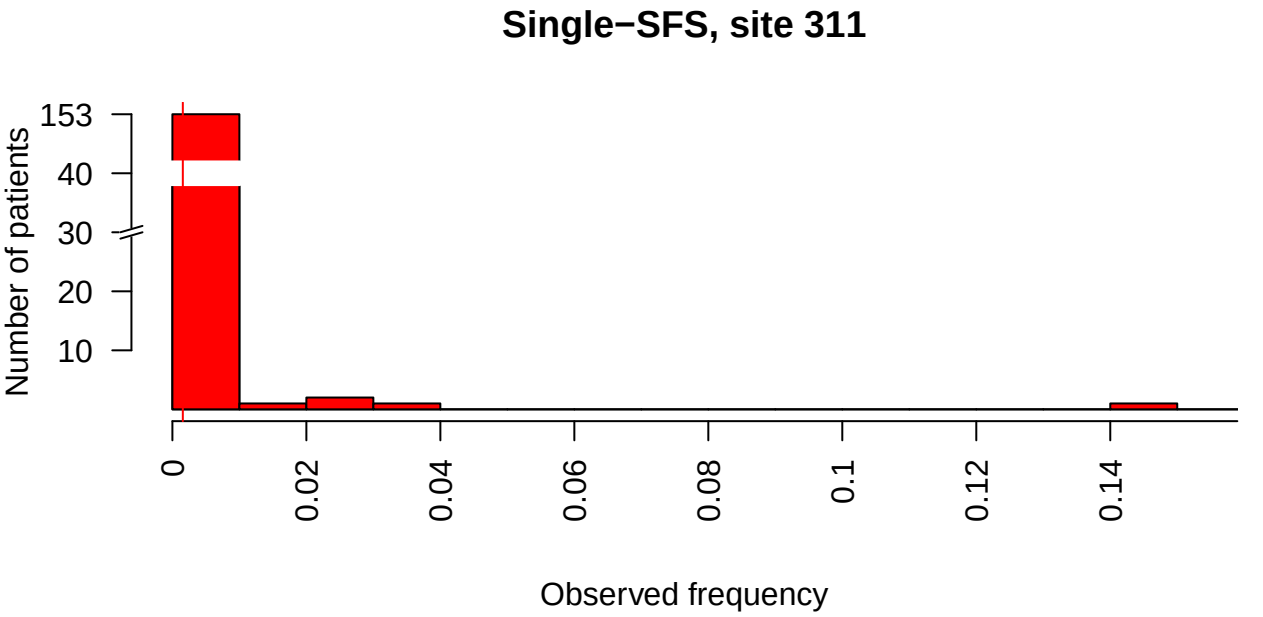

Simulated data, cost 0.0771
Number of patients
159
40
30
20
10
pvalue= 1
0
0.02
0.04
0.06
Observed frequency

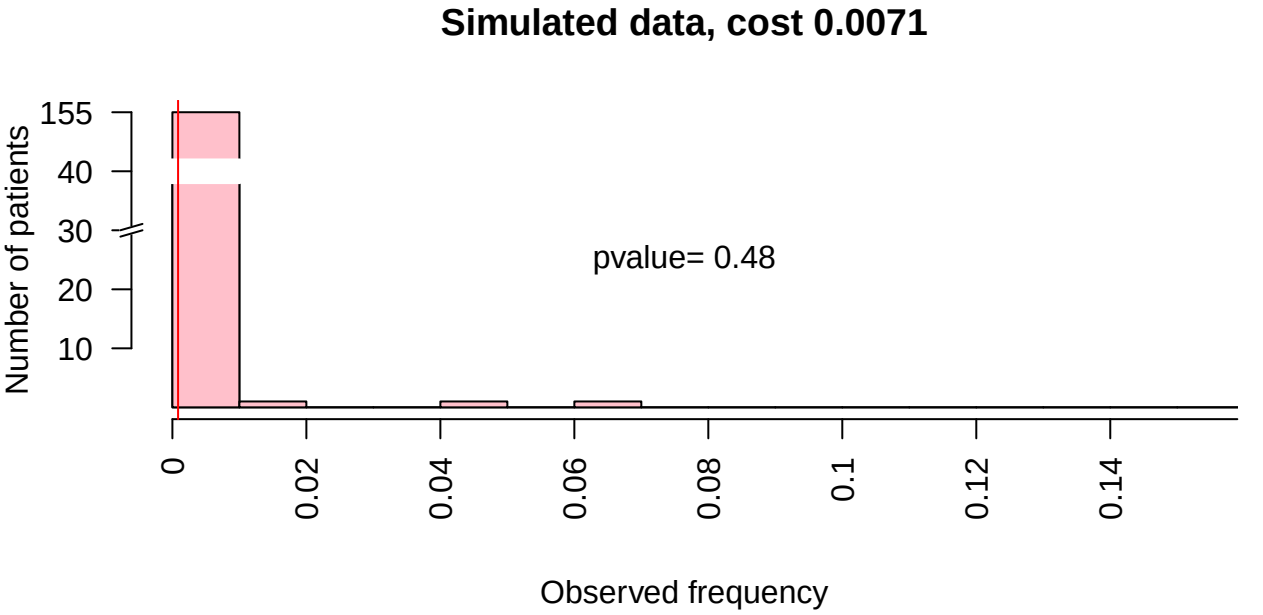

Single−SFS, site 309
Number of patients
144
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
Observed frequency

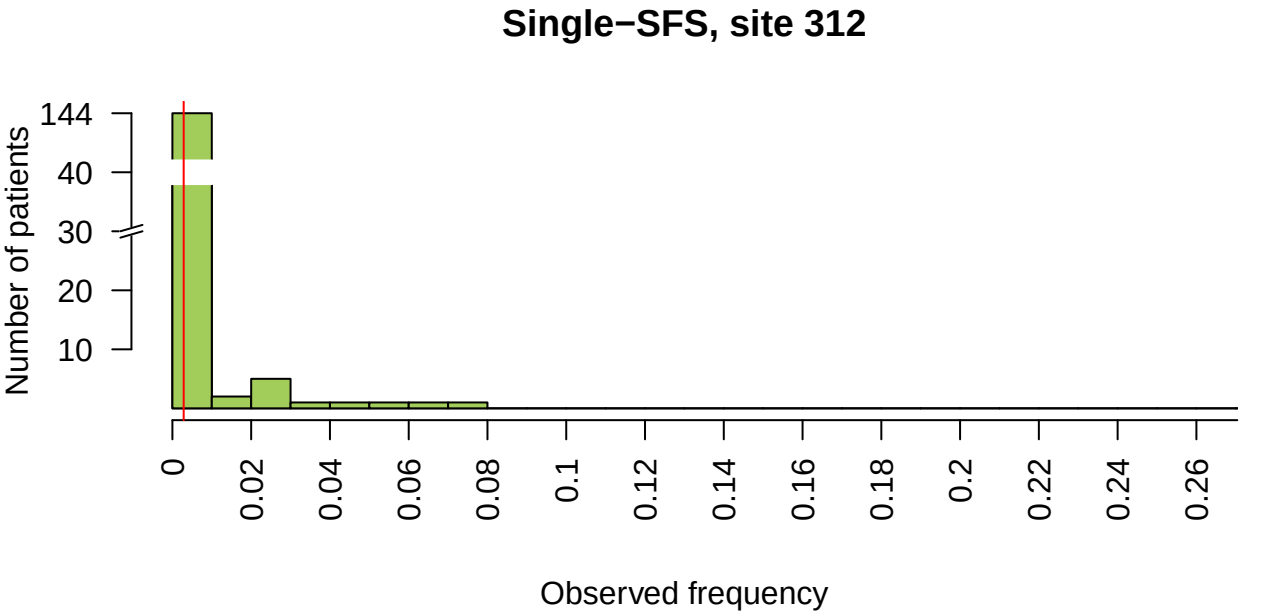

Simulated data, cost 0.006
Number of patients
145
40
30
20
10
pvalue= 0.851
0
0.02
0.04
0.06
0.08
0.1
Observed frequency

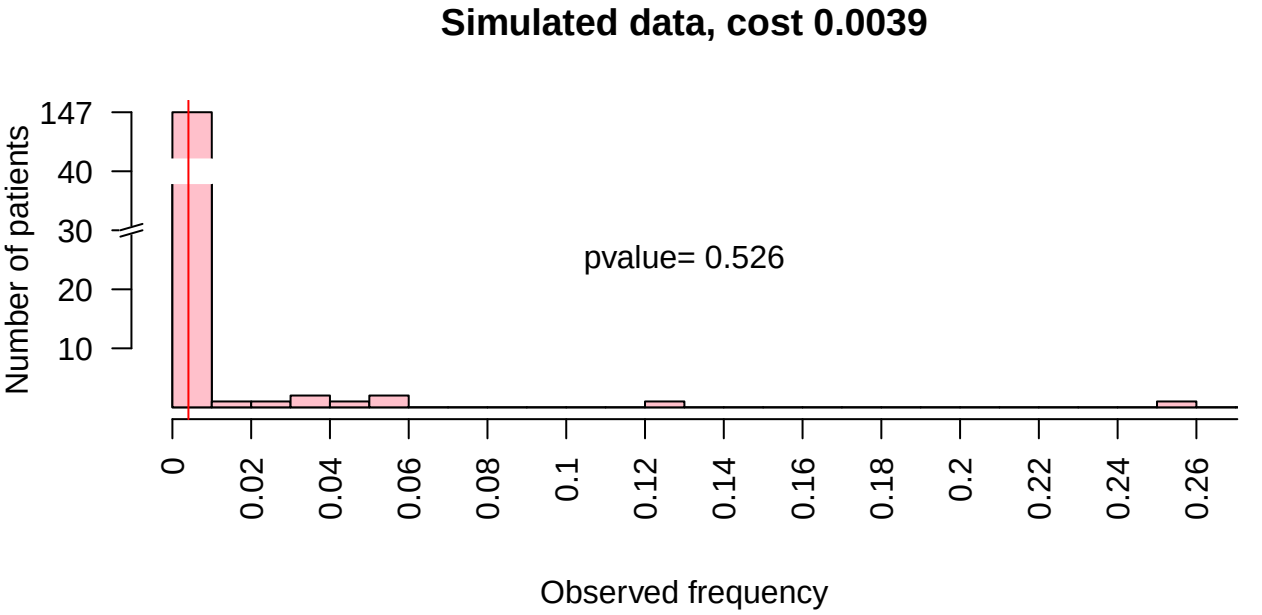

Single−SFS, site 310
Number of patients
153
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
Observed frequency

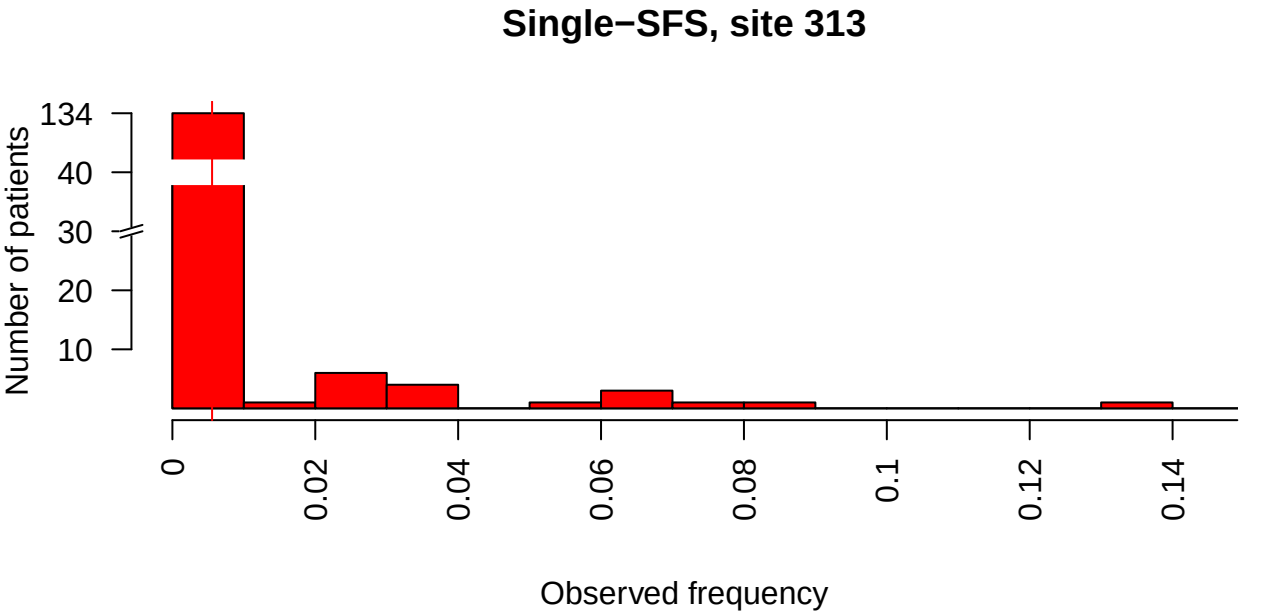

Simulated data, cost 0.0104
Number of patients
155
40
30
20
10
pvalue= 0.541
0
0.02
0.04
0.06
0.08
0.1
Observed frequency

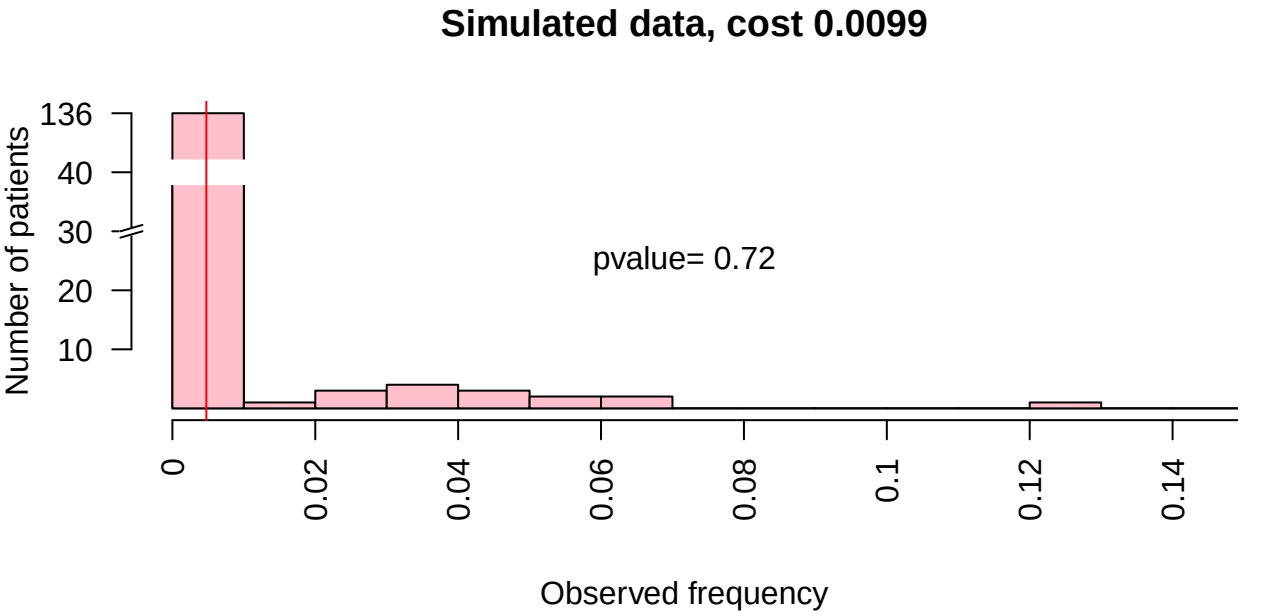

Single−SFS, site 311
Number of patients
153
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
Observed frequency

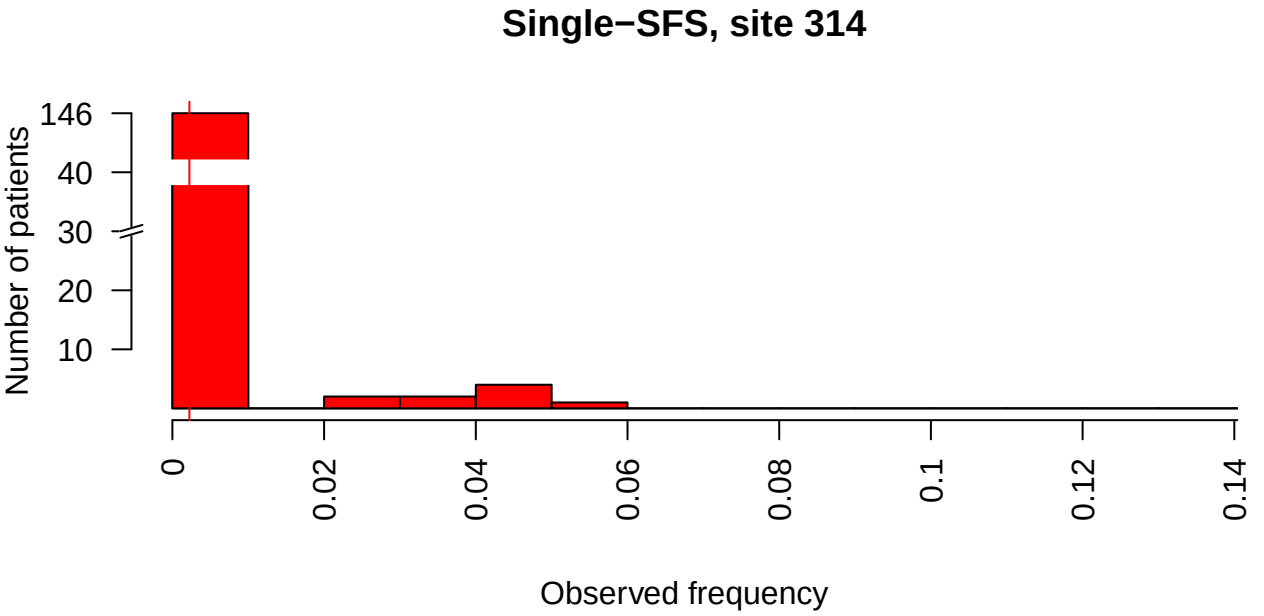

Simulated data, cost 0.0071
Number of patients
155
40
30
20
10
pvalue= 0.48
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
Observed frequency

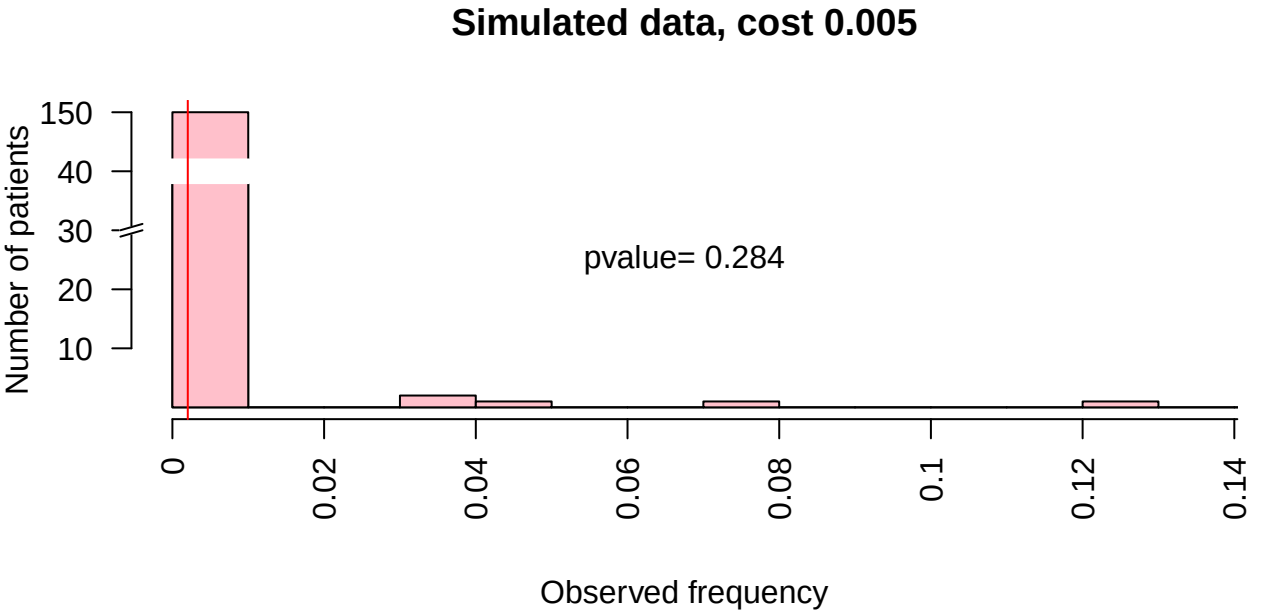

Single−SFS, site 312
Number of patients
144
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
0.24
0.26
Observed frequency

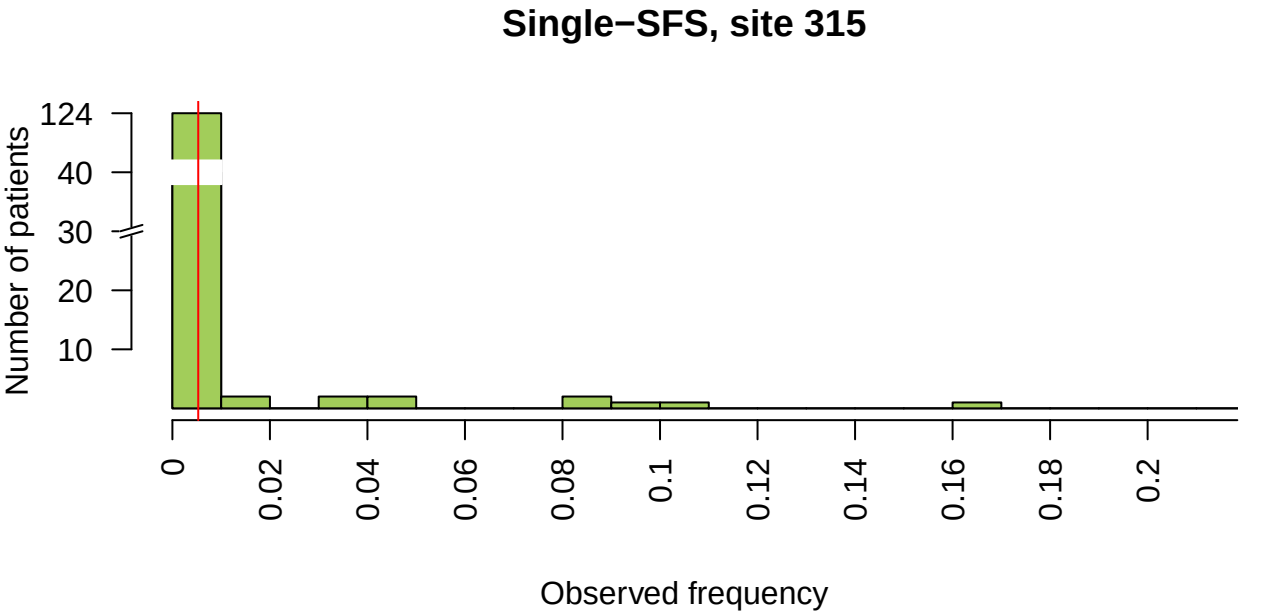

Simulated data, cost 0.0039
Number of patients
147
40
30
20
10
pvalue= 0.526
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
0.24
0.26
Observed frequency

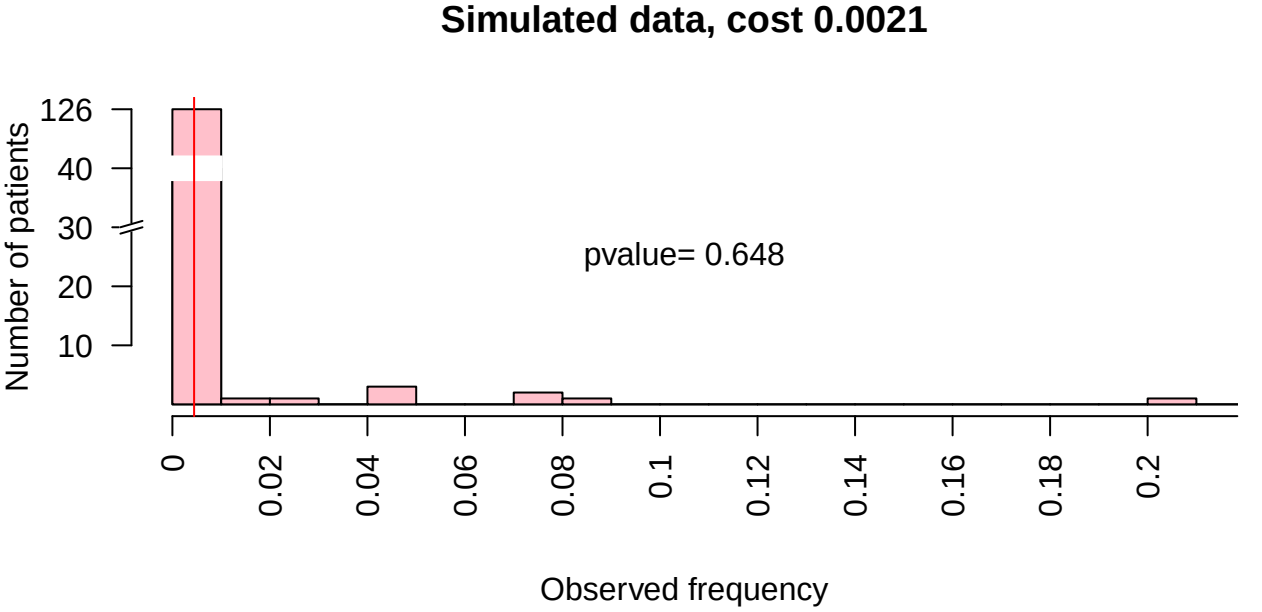

Single−SFS, site 313
Number of patients
134
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
Observed frequency

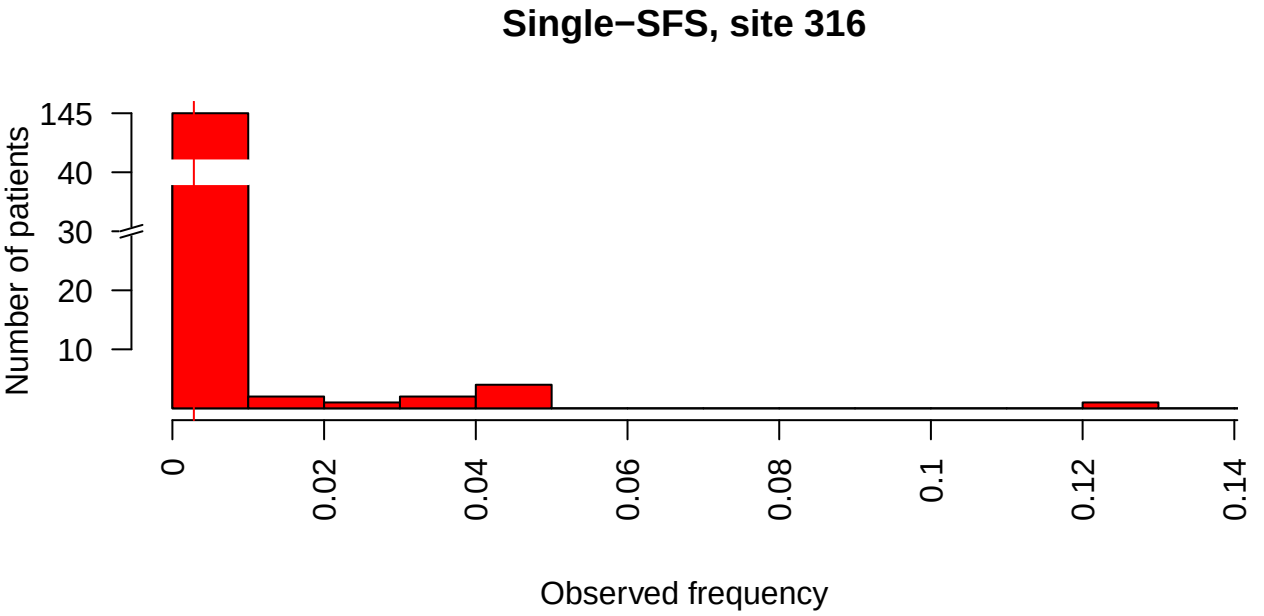

Simulated data, cost 0.0099
Number of patients
136
40
30
20
10
pvalue= 0.72
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
Observed frequency

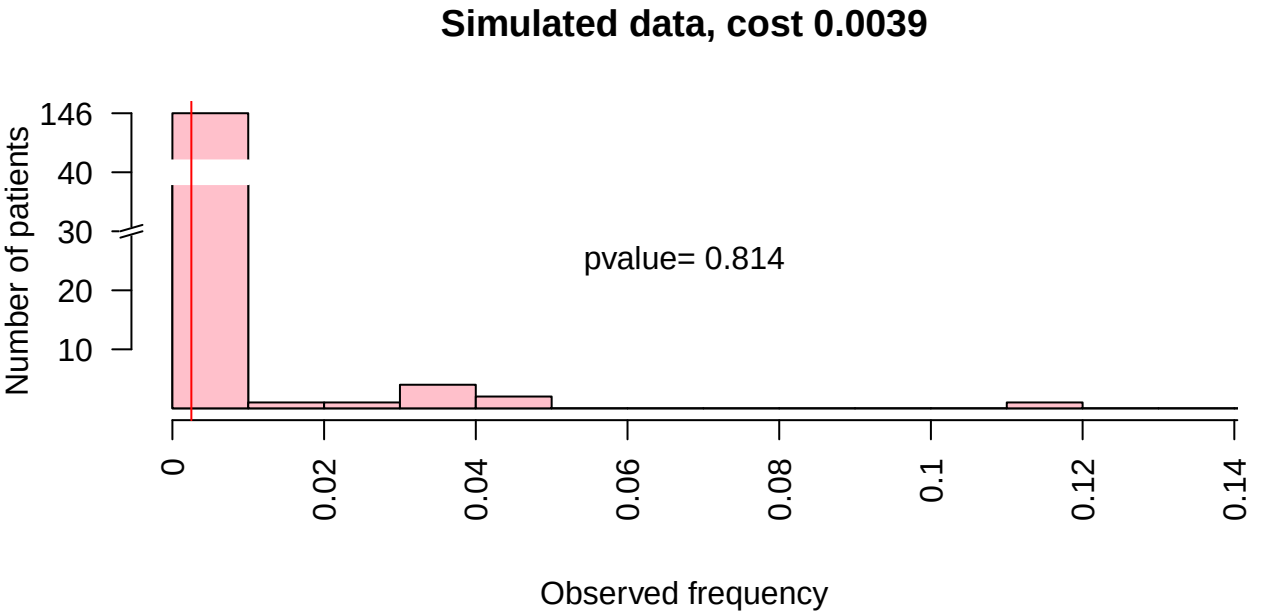

Single−SFS, site 314
Number of patients
146
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
Observed frequency

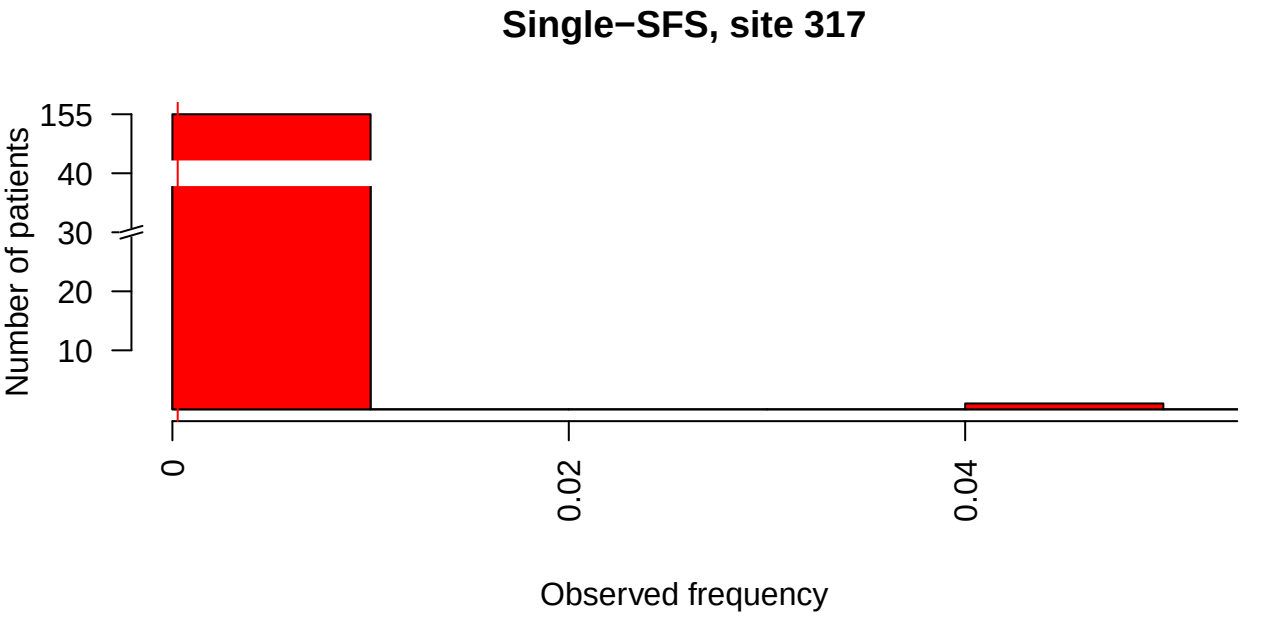

Simulated data, cost 0.005
Number of patients
150
40
30
20
10
pvalue= 0.284
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
Observed frequency

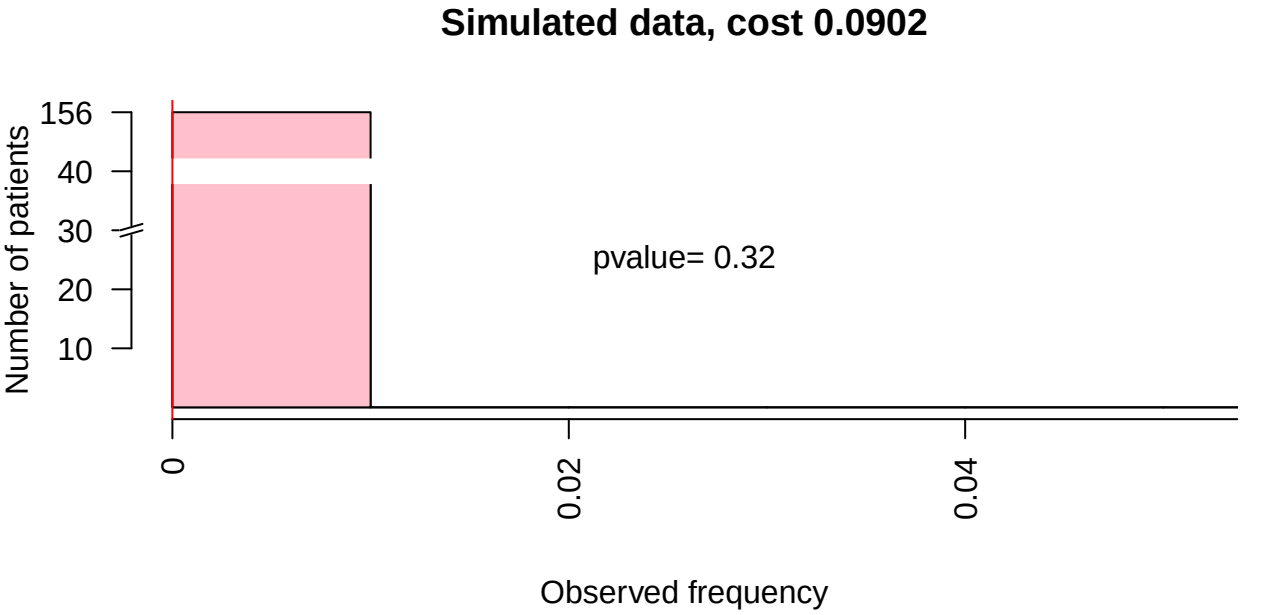

Single−SFS, site 315
Number of patients
124
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
Observed frequency

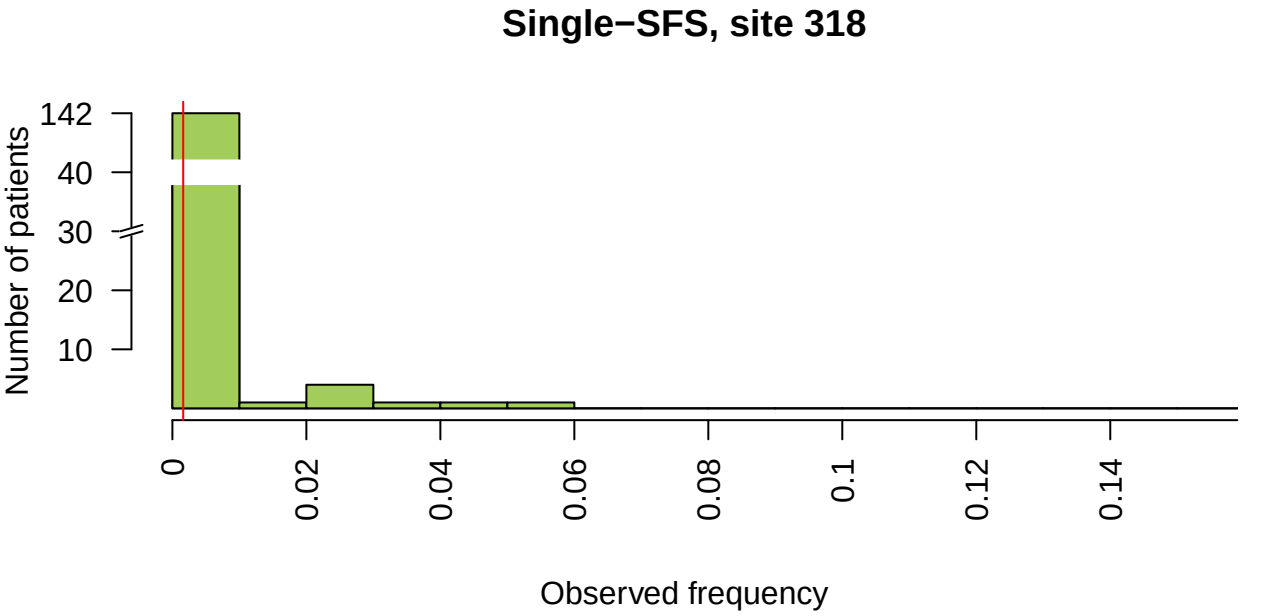

Simulated data, cost 0.0021
Number of patients
126
40
30
20
10
pvalue= 0.648
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
Observed frequency

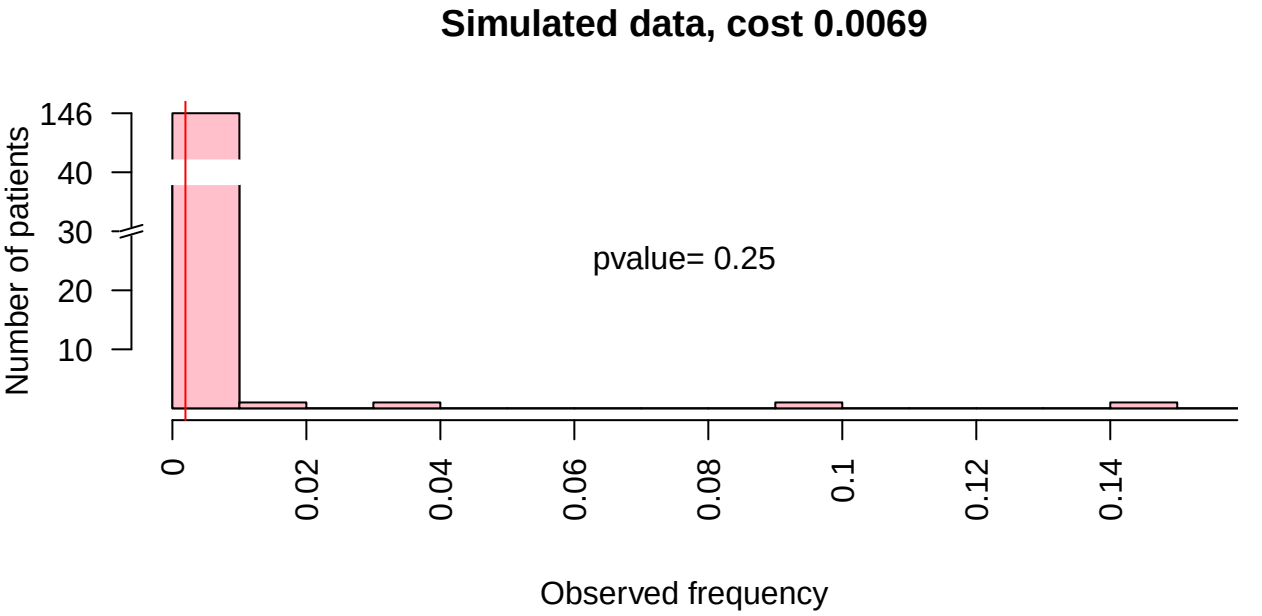

Single−SFS, site 316
Number of patients
145
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
Observed frequency

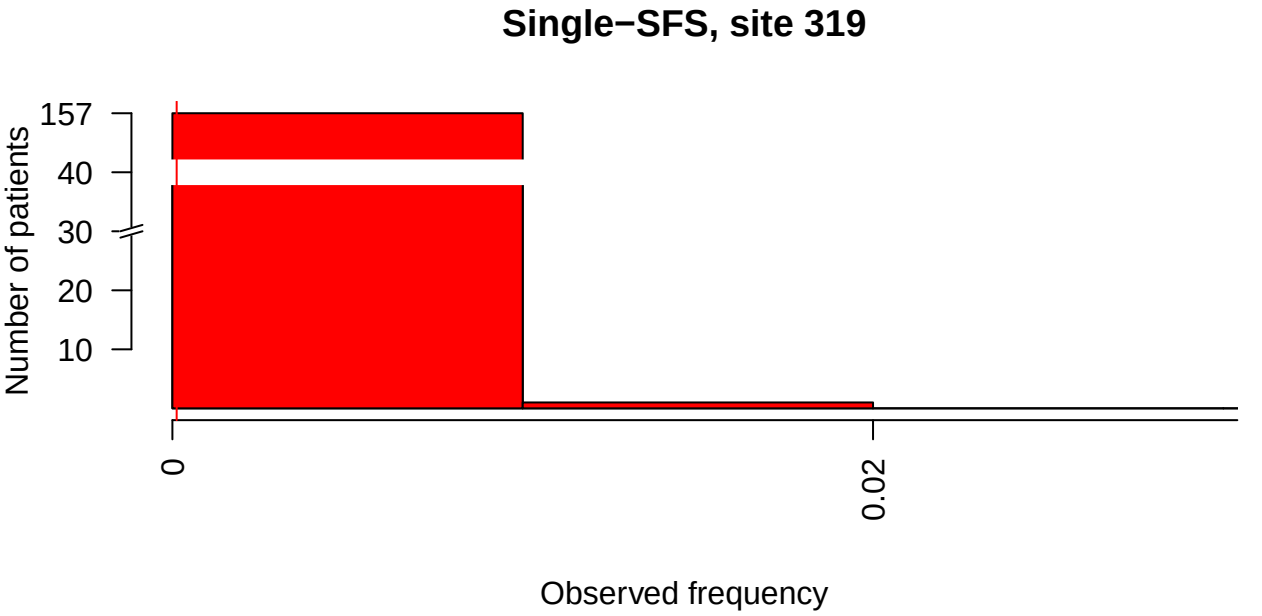

Simulated data, cost 0.0039
Number of patients
146
40
30
20
10
pvalue= 0.814
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
Observed frequency

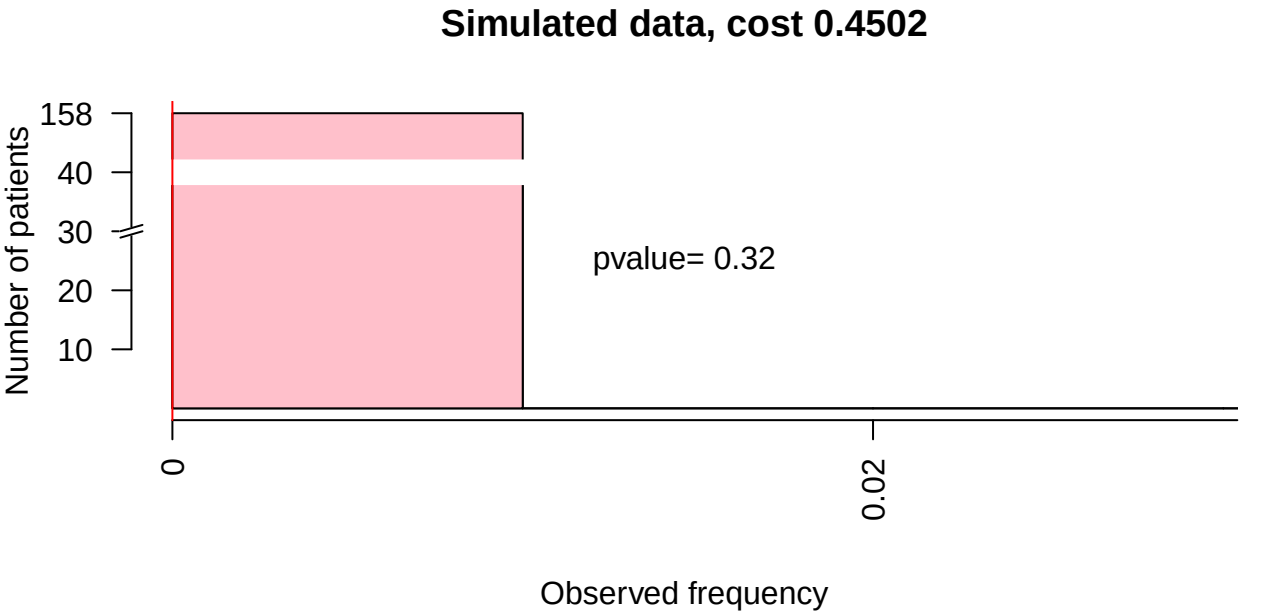

Single−SFS, site 317
Number of patients
155
40
30
20
10
0
0.02
0.04
Observed frequency

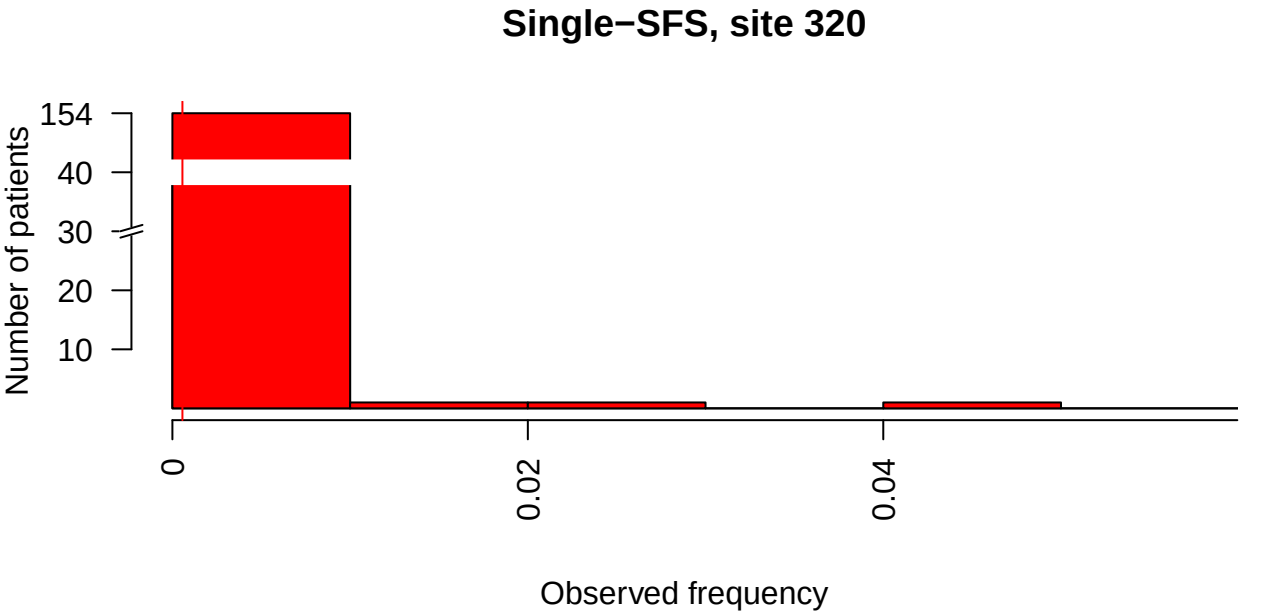

Simulated data, cost 0.0902
Number of patients
156
40
30
20
10
pvalue= 0.32
0
0.02
0.04
Observed frequency

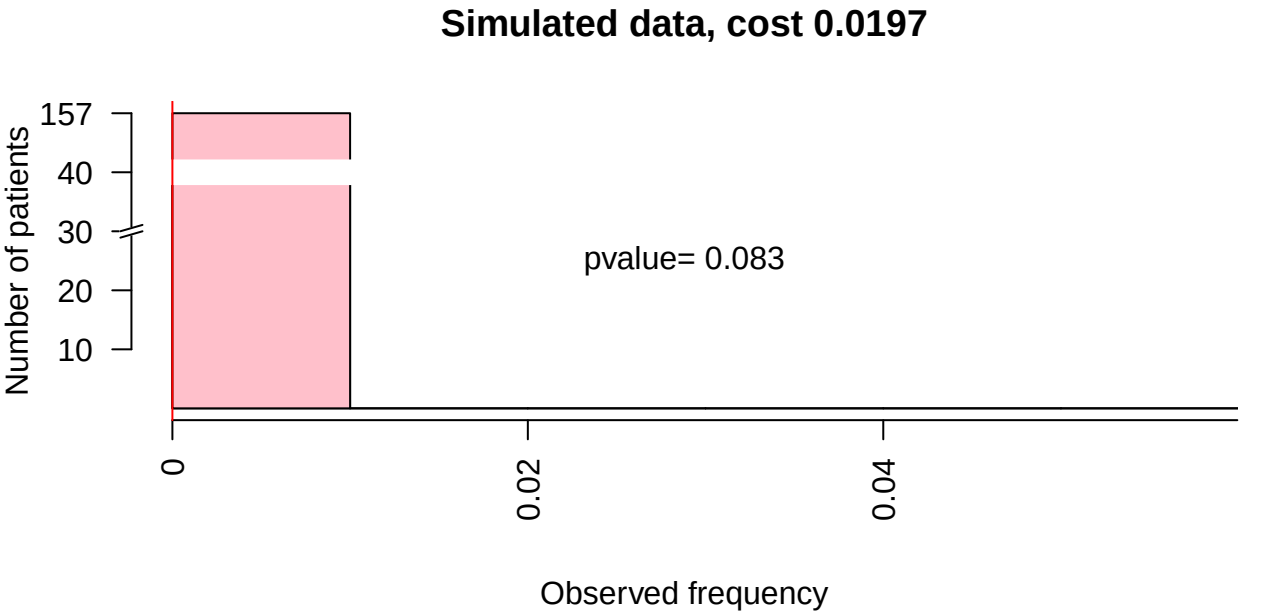

Single−SFS, site 318
Number of patients
142
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
Observed frequency

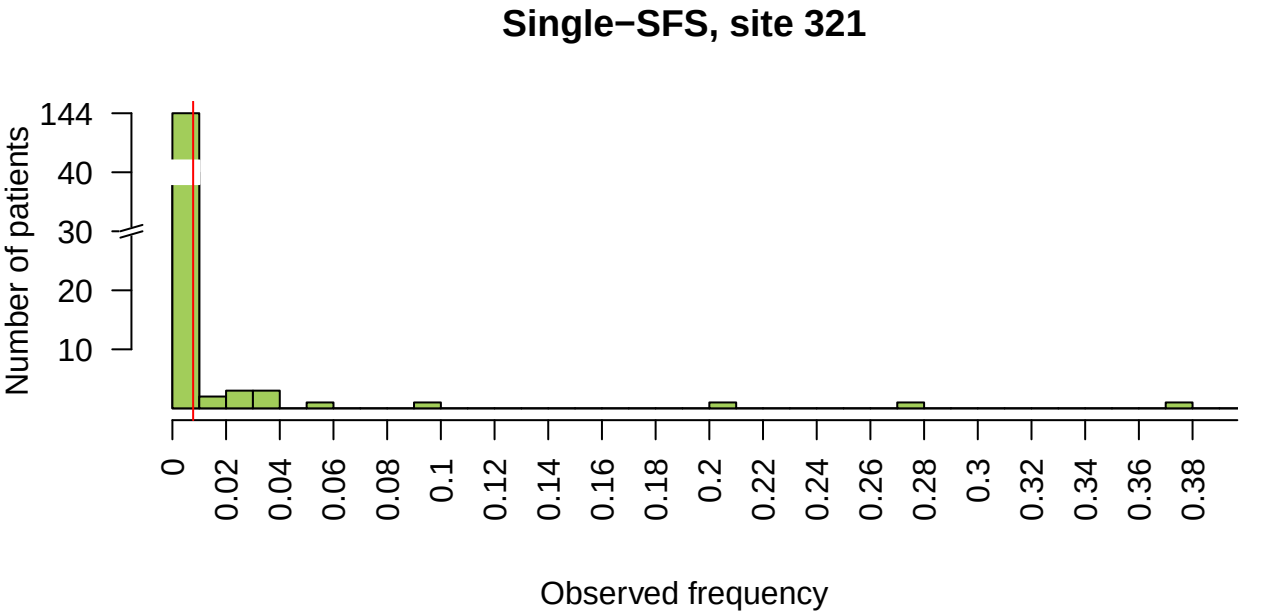

Simulated data, cost 0.0069
Number of patients
146
40
30
20
10
pvalue= 0.25
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
Observed frequency

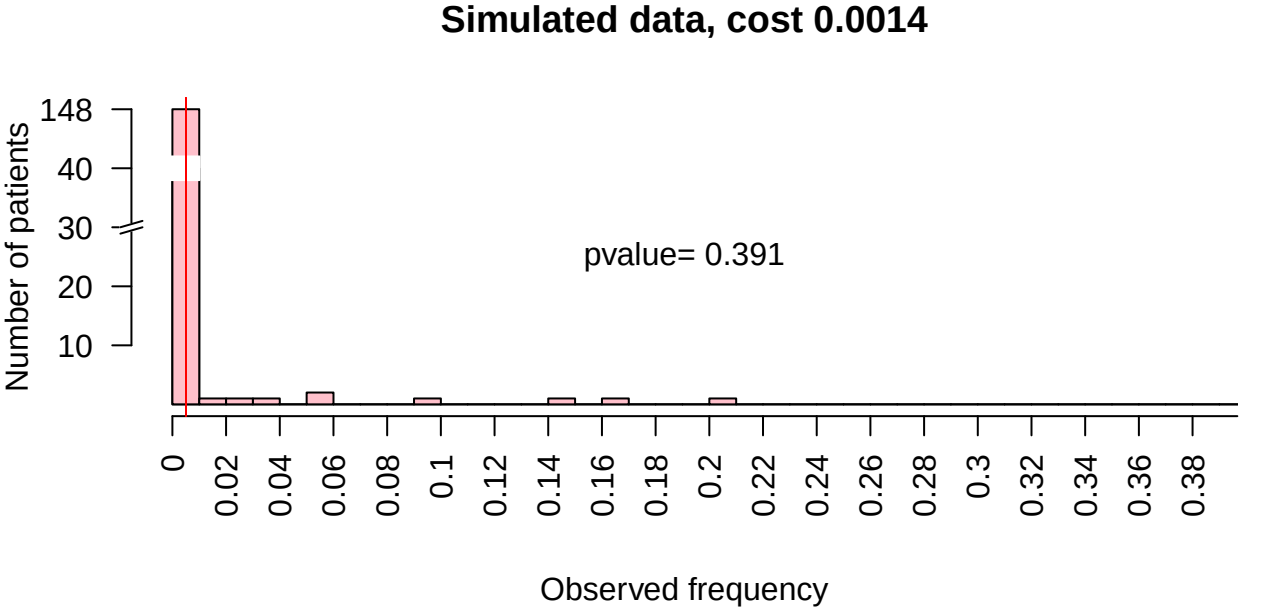

Single−SFS, site 319
Number of patients
157
40
30
20
10
0
0.02
Observed frequency

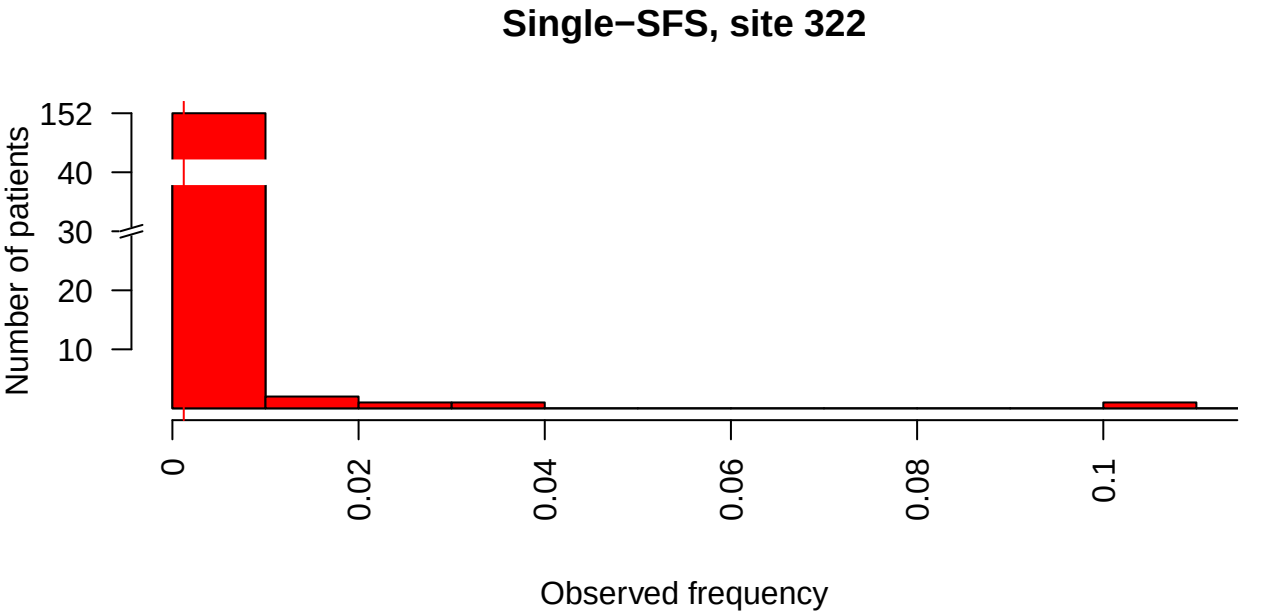

Simulated data, cost 0.4502
Number of patients
158
40
30
20
10
pvalue= 0.32
0
0.02
Observed frequency

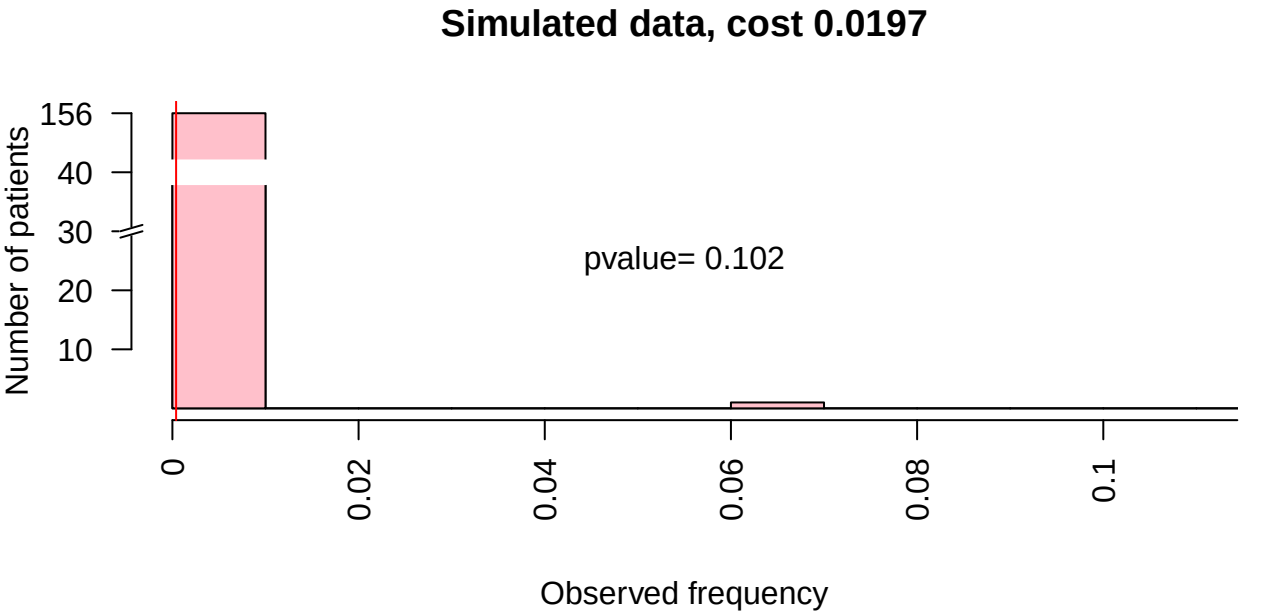

Single−SFS, site 320
Number of patients
154
40
30
20
10
0
0.02
0.04
Observed frequency

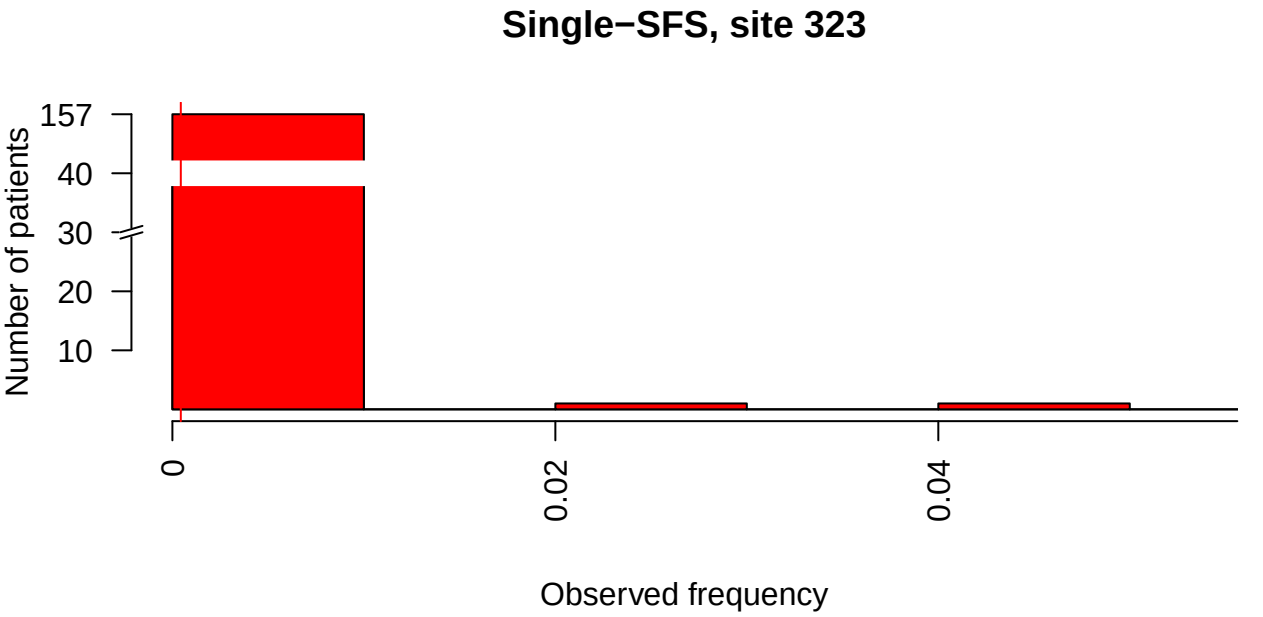

Simulated data, cost 0.0197
Number of patients
157
40
30
20
10
pvalue= 0.083
0
0.02
0.04
Observed frequency

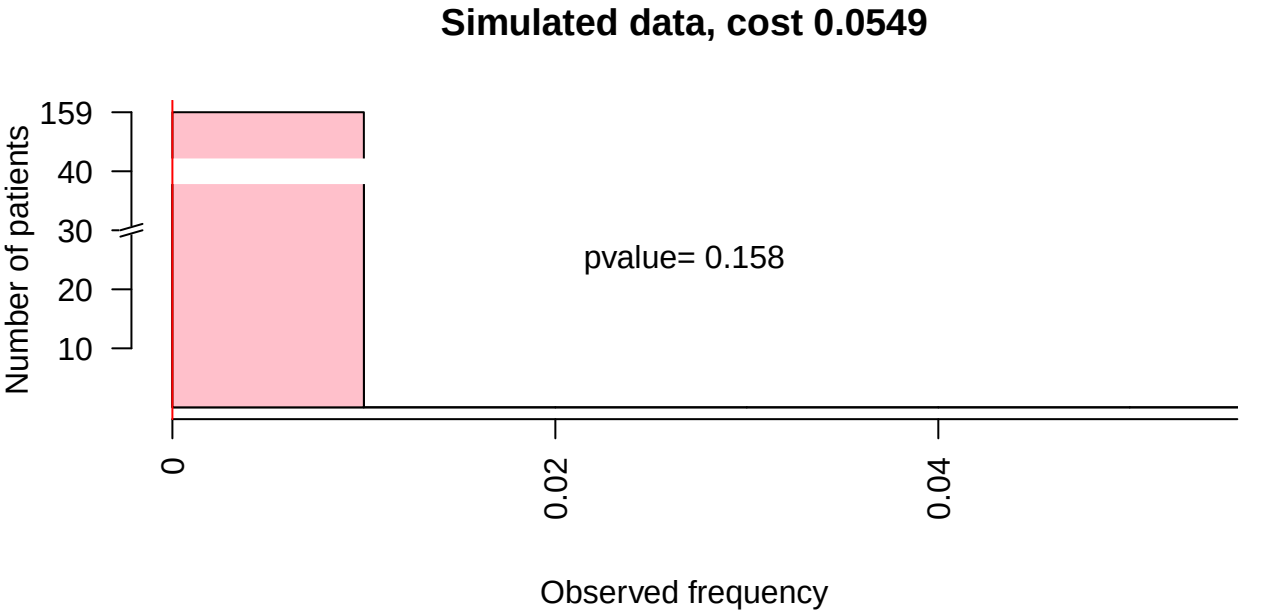

Single−SFS, site 321
Number of patients
144
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
0.24
0.26
0.28
0.3
0.32
0.34
0.36
0.38
Observed frequency

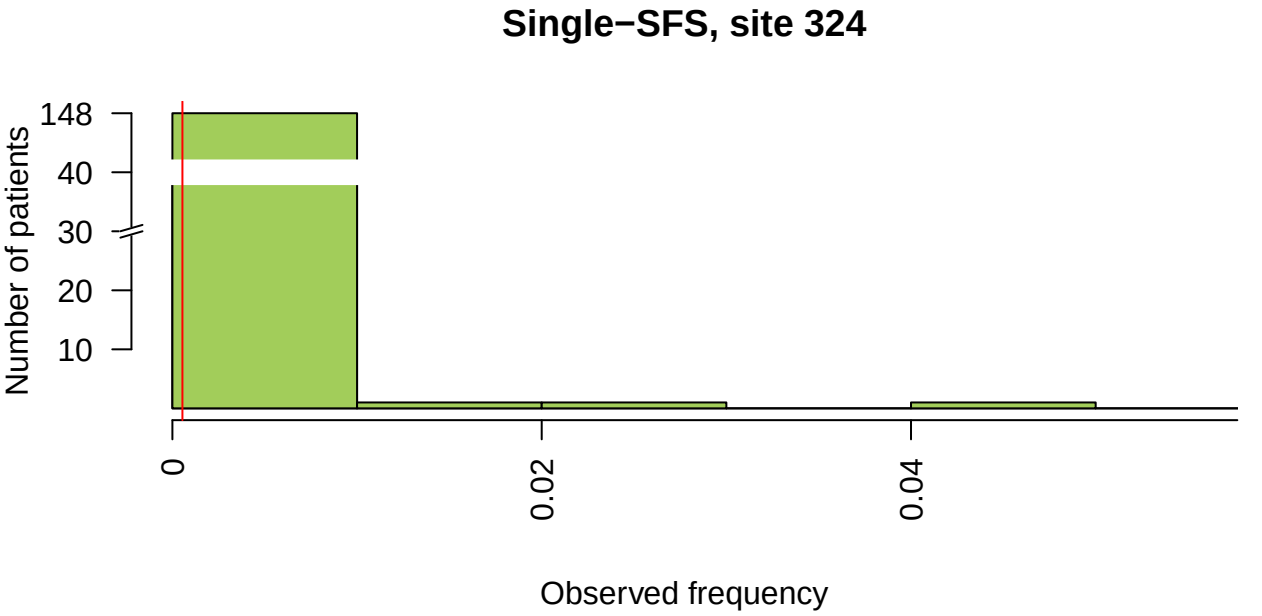

Simulated data, cost 0.0014
Number of patients
148
40
30
20
10
pvalue= 0.391
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
0.24
0.26
0.28
0.3
0.32
0.34
0.36
0.38
Observed frequency

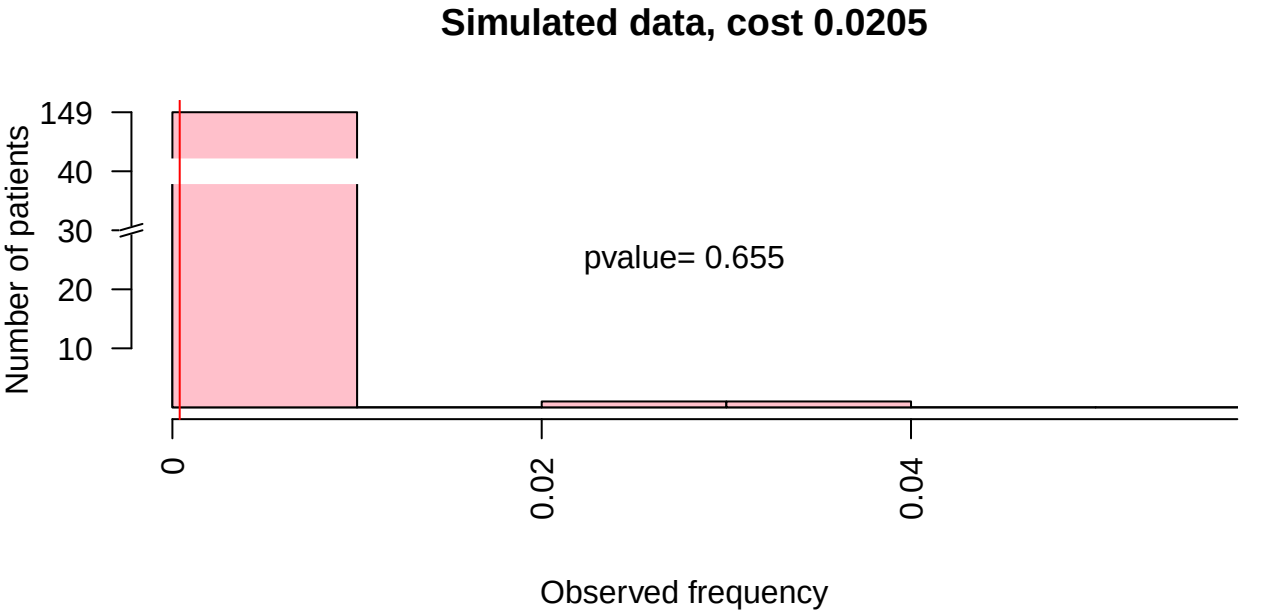

Single−SFS, site 322
Number of patients
152
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
Observed frequency

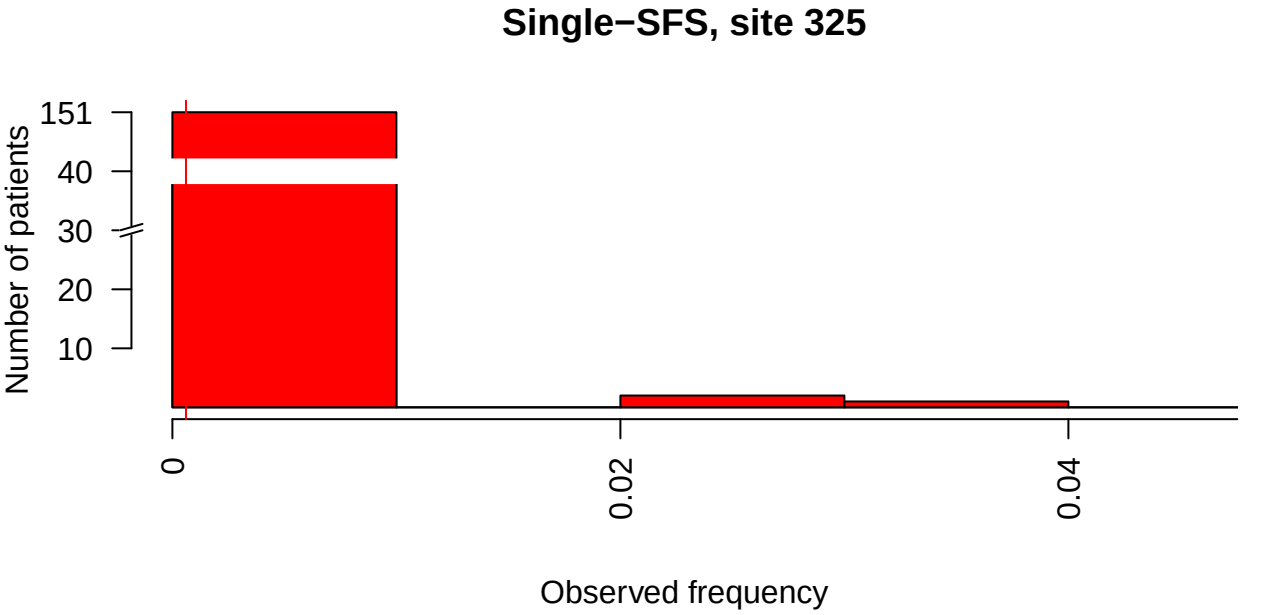

Simulated data, cost 0.0197
Number of patients
156
40
30
20
10
pvalue= 0.102
0
0.02
0.04
0.06
0.08
0.1
Observed frequency

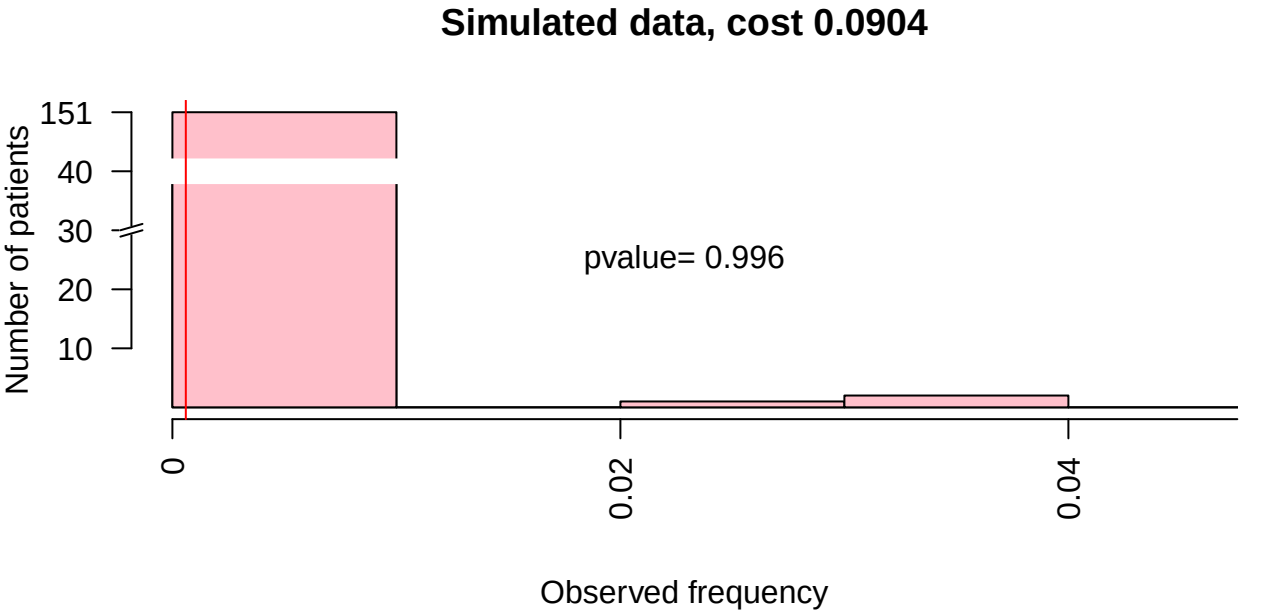

Single−SFS, site 323
Number of patients
157
40
30
20
10
0
0.02
0.04
Observed frequency

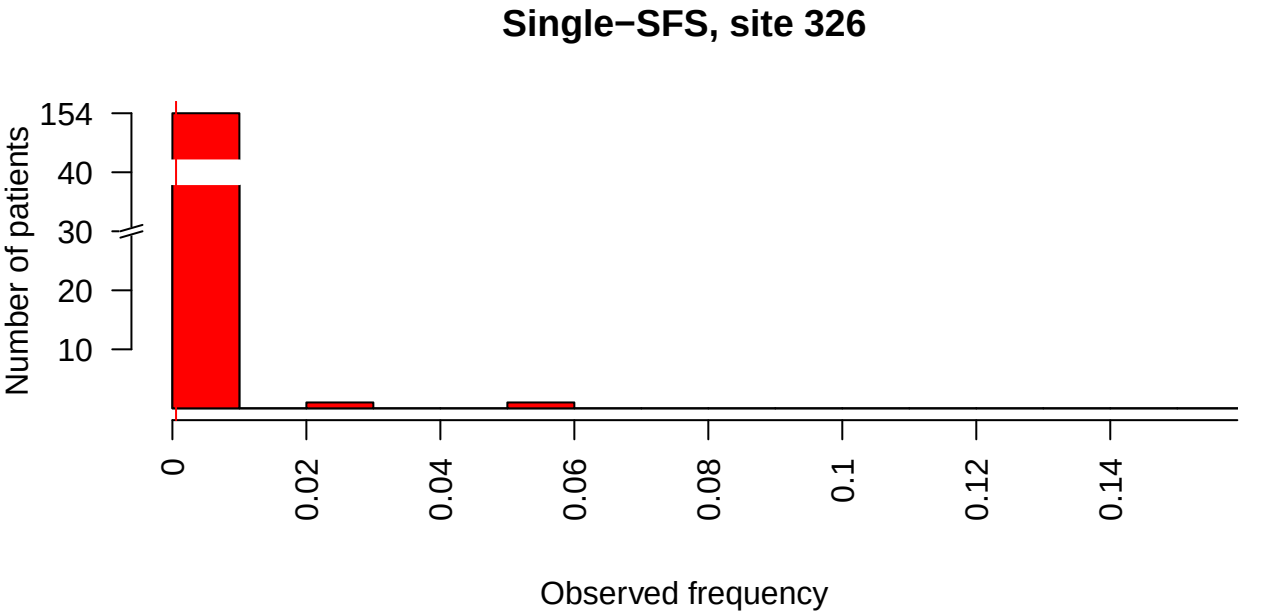

Simulated data, cost 0.0549
Number of patients
159
40
30
20
10
pvalue= 0.158
0
0.02
0.04
Observed frequency

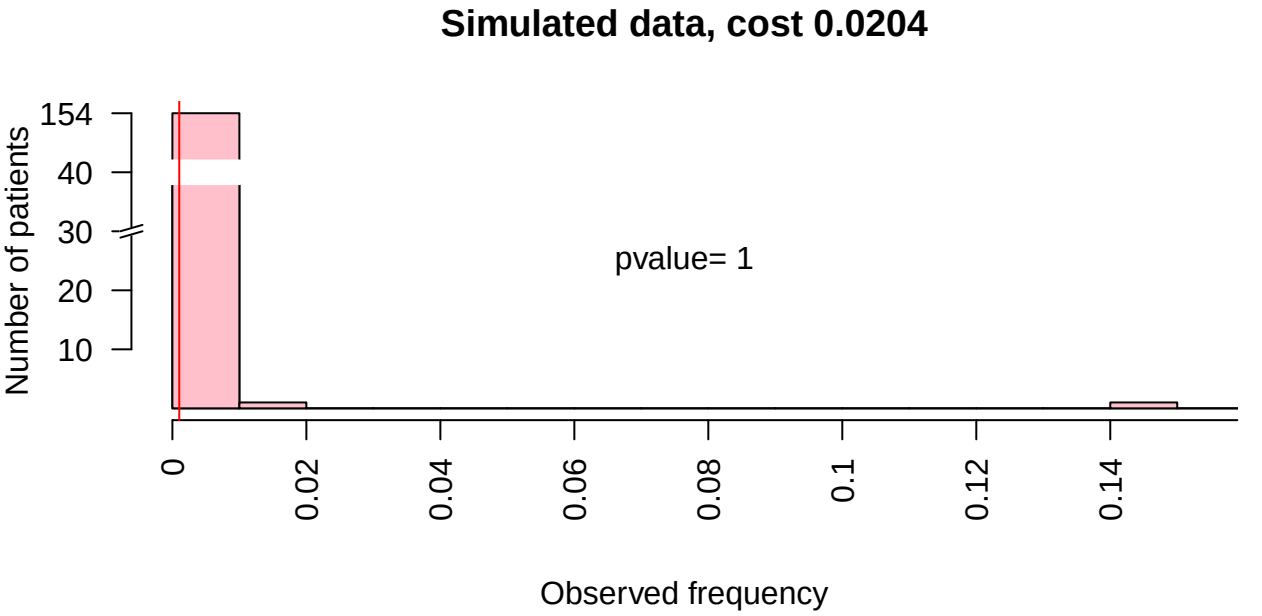

Single−SFS, site 324
Number of patients
148
40
30
20
10
0
0.02
0.04
Observed frequency

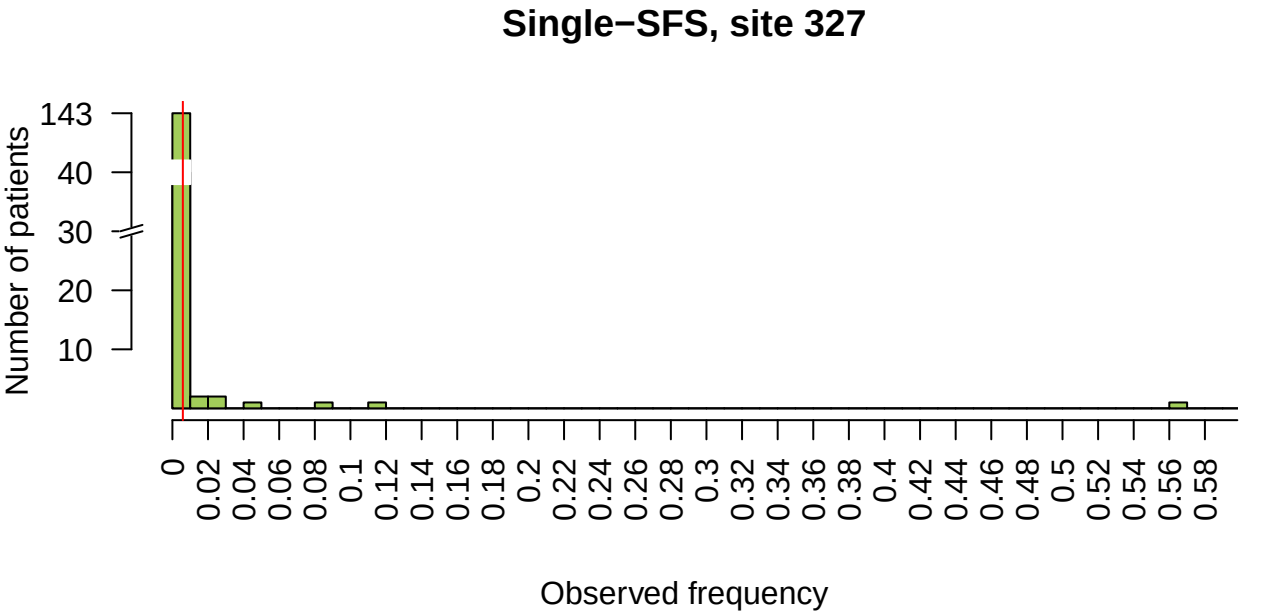

Simulated data, cost 0.0205
Number of patients
149
40
30
20
10
pvalue= 0.655
0
0.02
0.04
Observed frequency

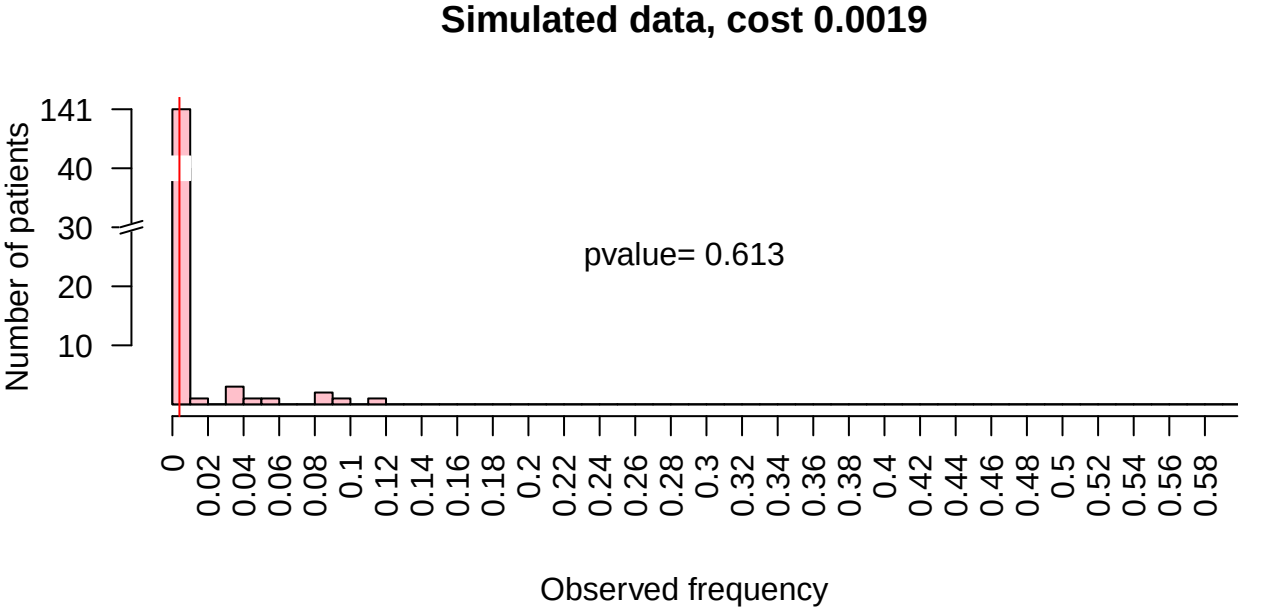

Single−SFS, site 325
Number of patients
151
40
30
20
10
0
0.02
0.04
Observed frequency

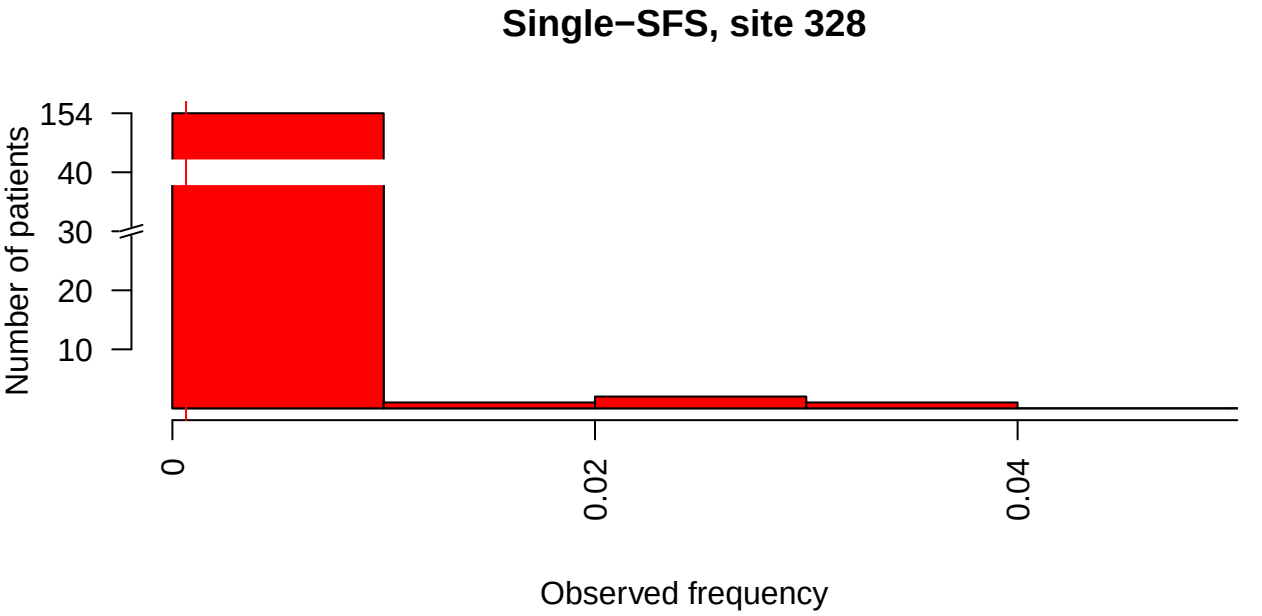

Simulated data, cost 0.0904
Number of patients
151
40
30
20
10
pvalue= 0.996
0
0.02
0.04
Observed frequency

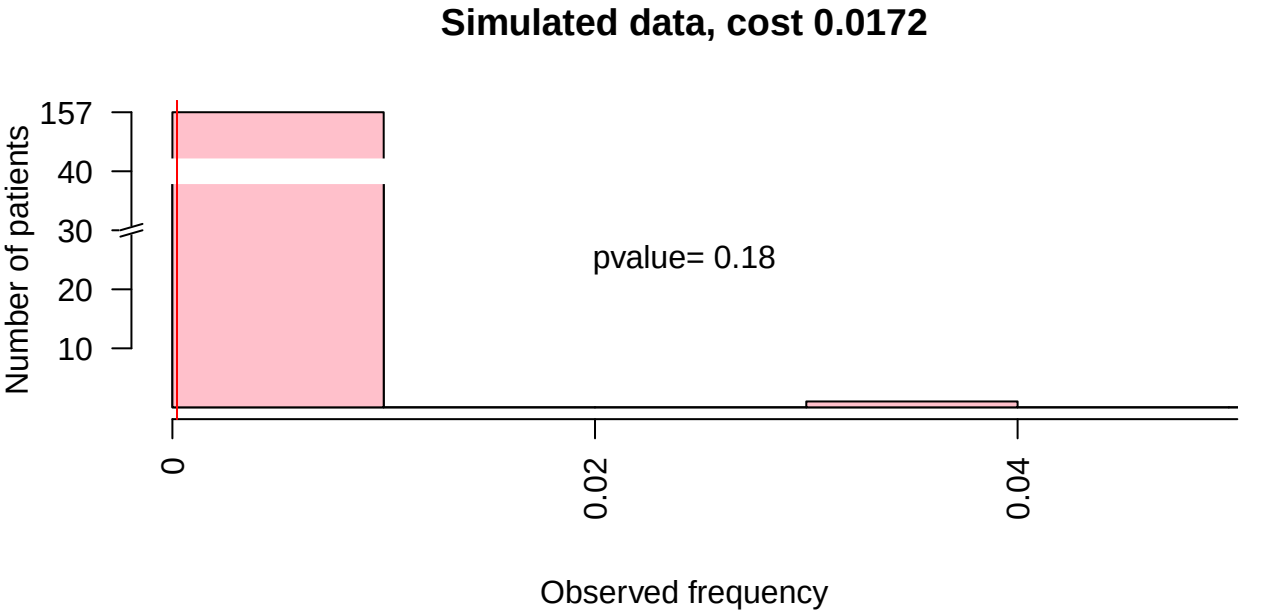

Single−SFS, site 326
Number of patients
154
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
Observed frequency

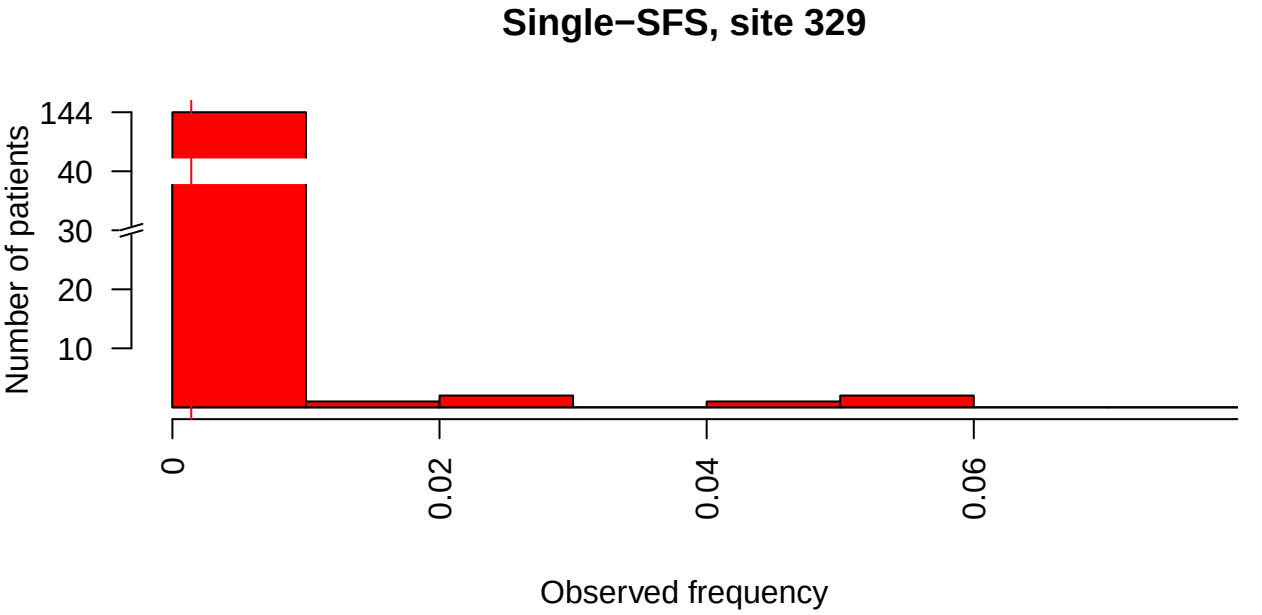

Simulated data, cost 0.0204
Number of patients
154
40
30
20
10
pvalue= 1
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
Observed frequency

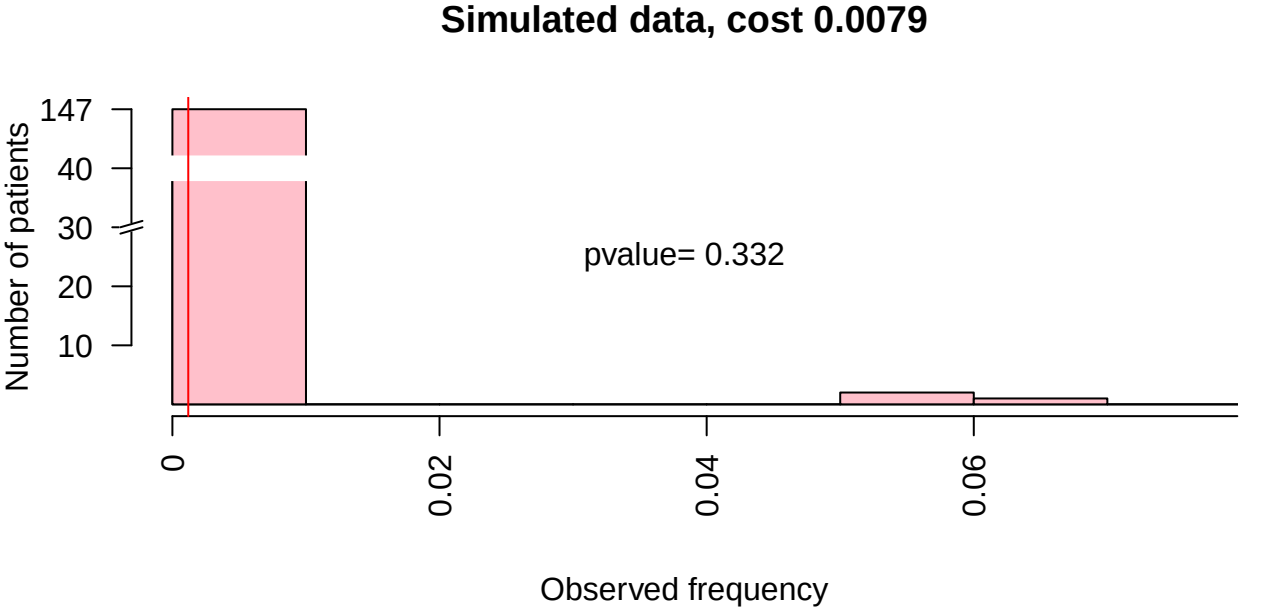

Single−SFS, site 327
Number of patients
143
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
0.24
0.26
0.28
0.3
0.32
0.34
0.36
0.38
0.4
0.42
0.44
0.46
0.48
0.5
0.52
0.54
0.56
0.58
Observed frequency

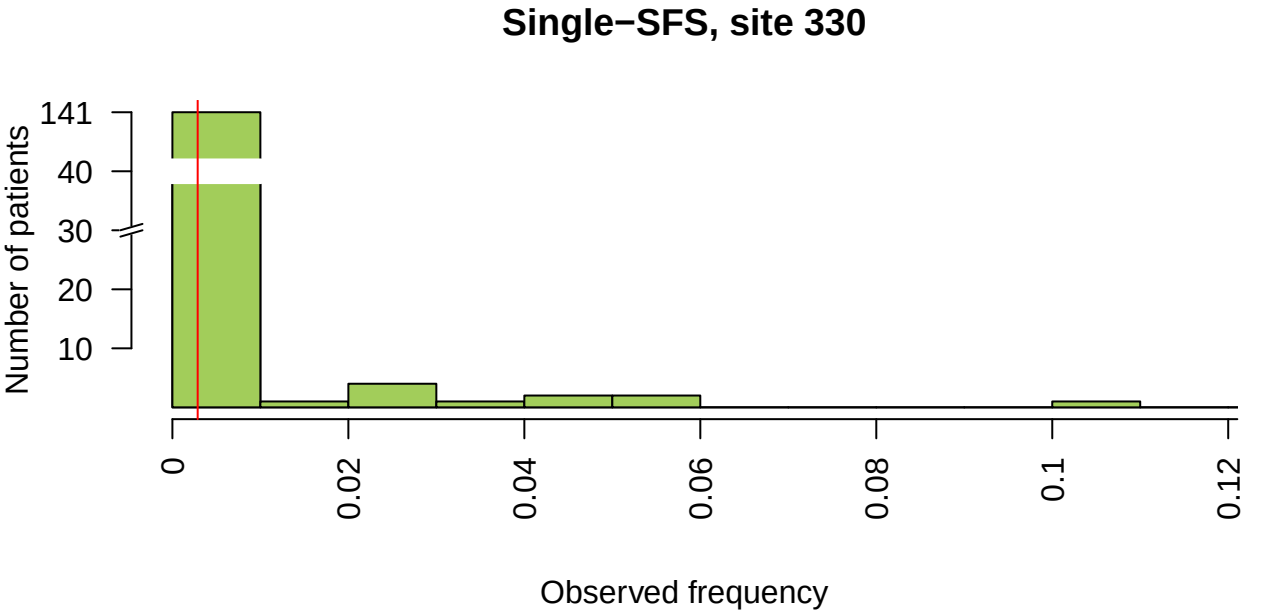

Simulated data, cost 0.0019
Number of patients
141
40
30
20
10
pvalue= 0.613
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
0.24
0.26
0.28
0.3
0.32
0.34
0.36
0.38
0.4
0.42
0.44
0.46
0.48
0.5
0.52
0.54
0.56
0.58
Observed frequency

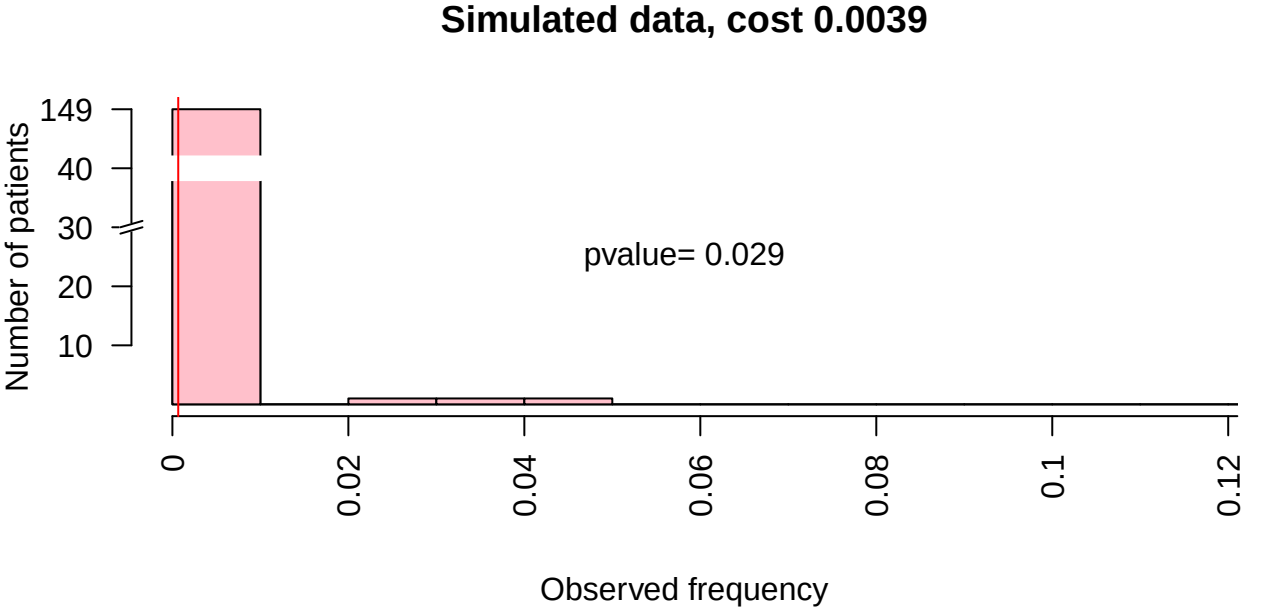

Single−SFS, site 328
Number of patients
154
40
30
20
10
0
0.02
0.04
Observed frequency

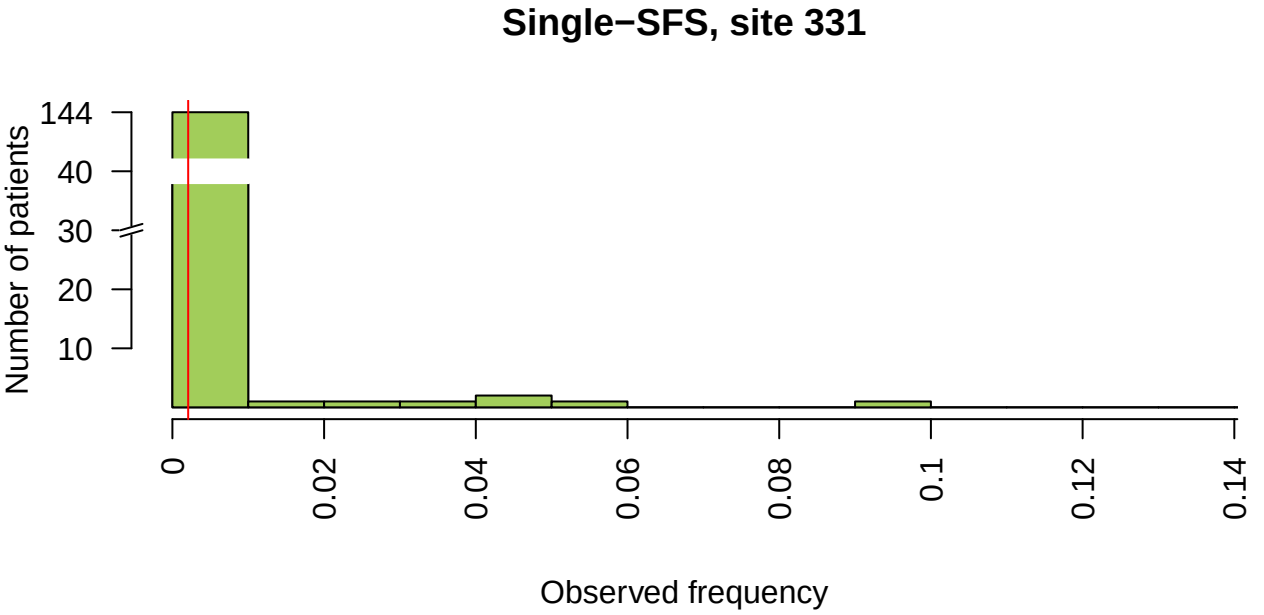

Simulated data, cost 0.0172
Number of patients
157
40
30
20
10
pvalue= 0.18
0
0.02
0.04
Observed frequency

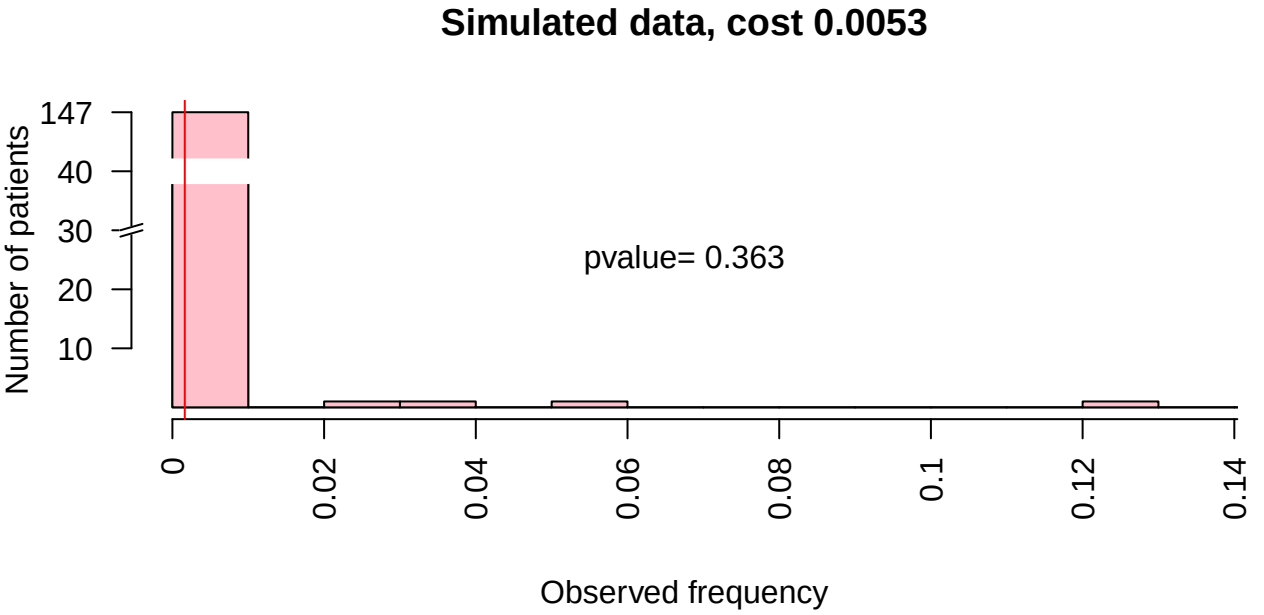

Single−SFS, site 329
Number of patients
144
40
30
20
10
0
0.02
0.04
0.06
Observed frequency

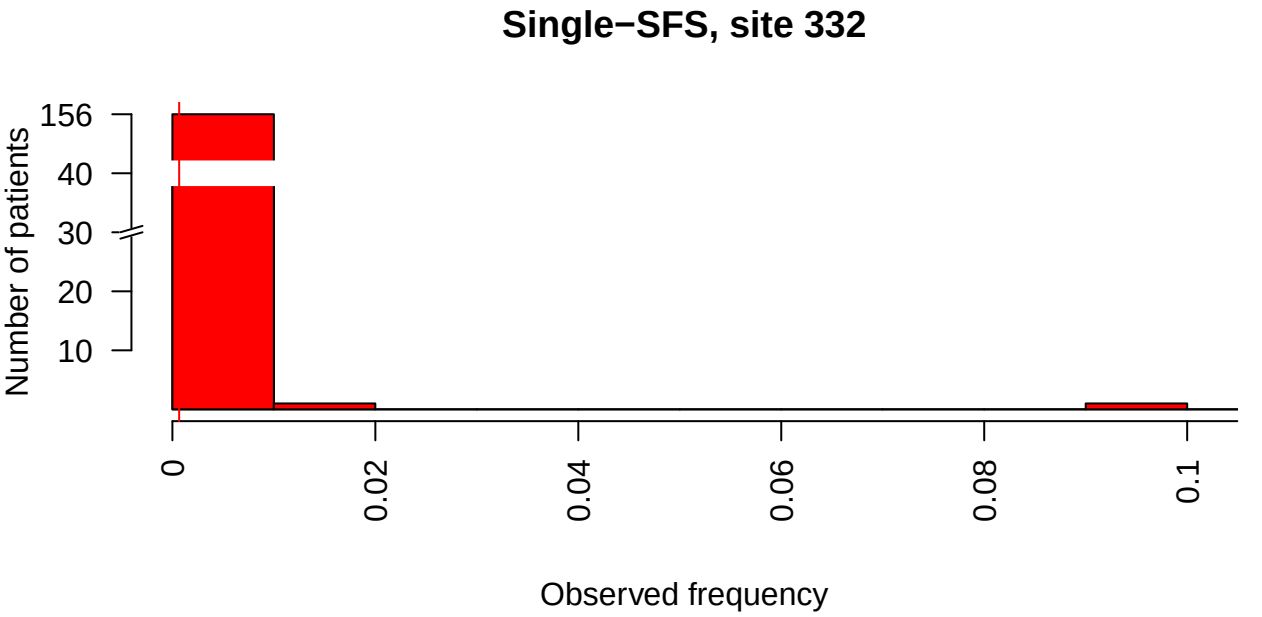

Simulated data, cost 0.0079
Number of patients
147
40
30
20
10
pvalue= 0.332
0
0.02
0.04
0.06
Observed frequency

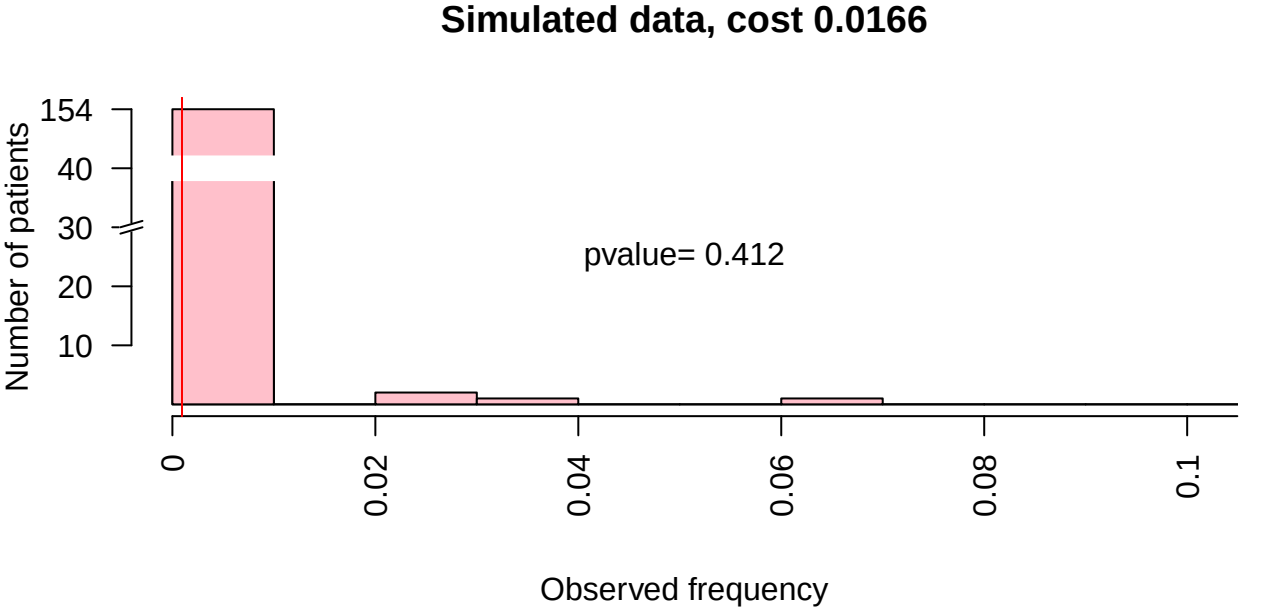

Single−SFS, site 330
Number of patients
141
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
Observed frequency

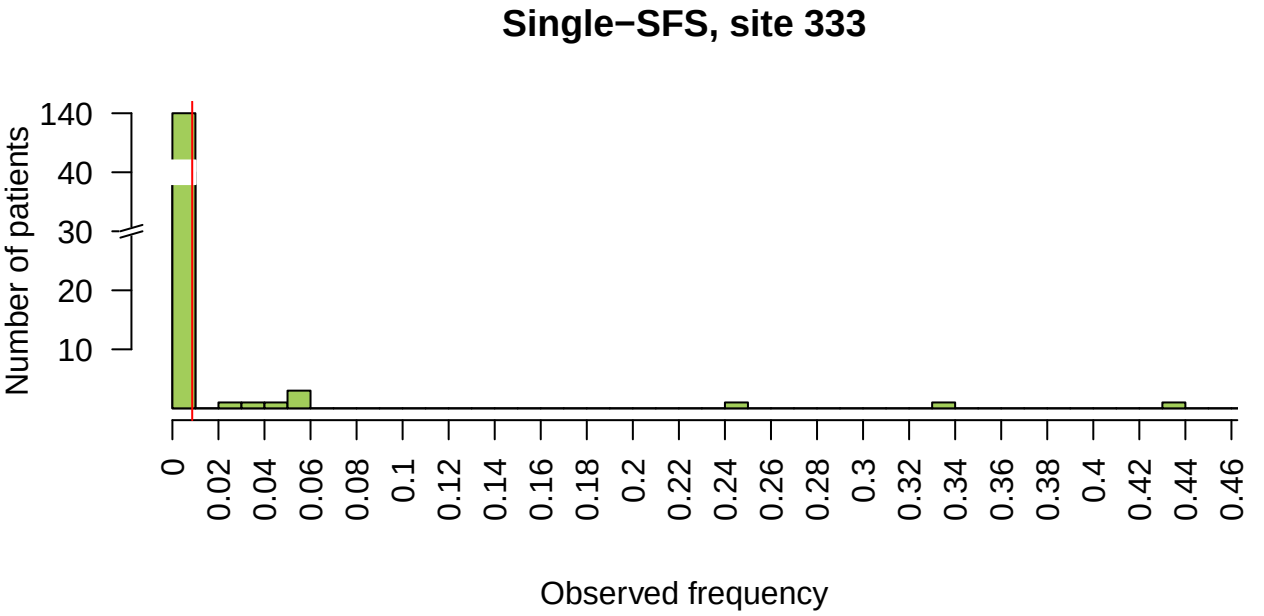

Simulated data, cost 0.0039
Number of patients
149
40
30
20
10
pvalue= 0.029
0
0.02
0.04
0.06
0.08
0.1
0.12
Observed frequency

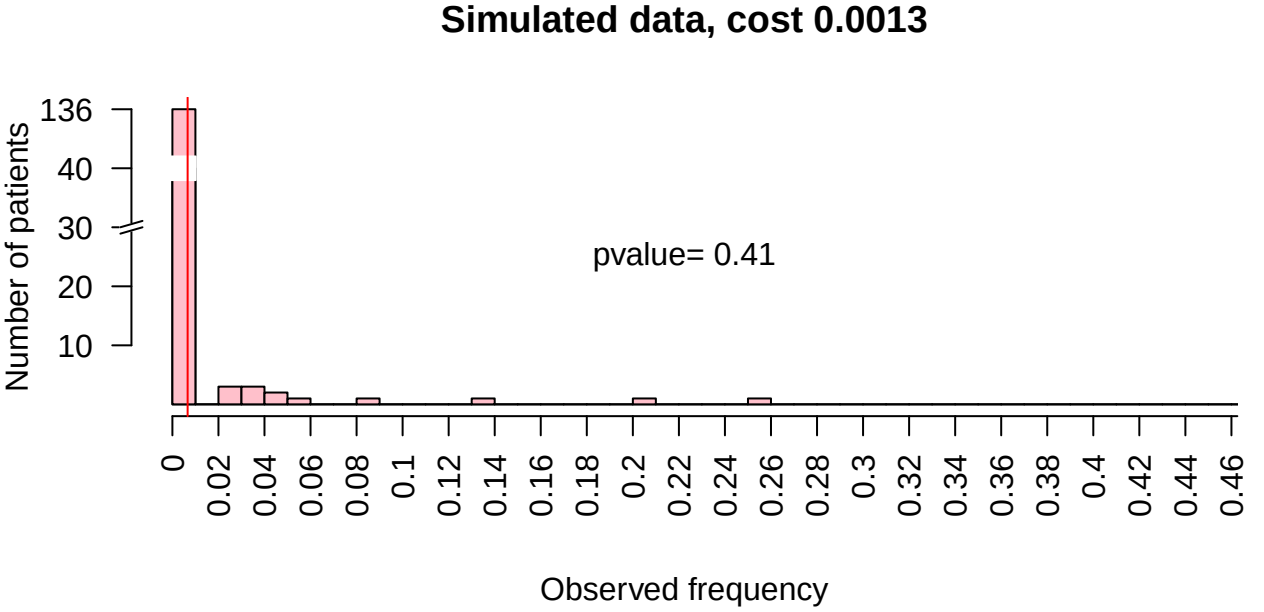

Single−SFS, site 331
Number of patients
144
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
Observed frequency

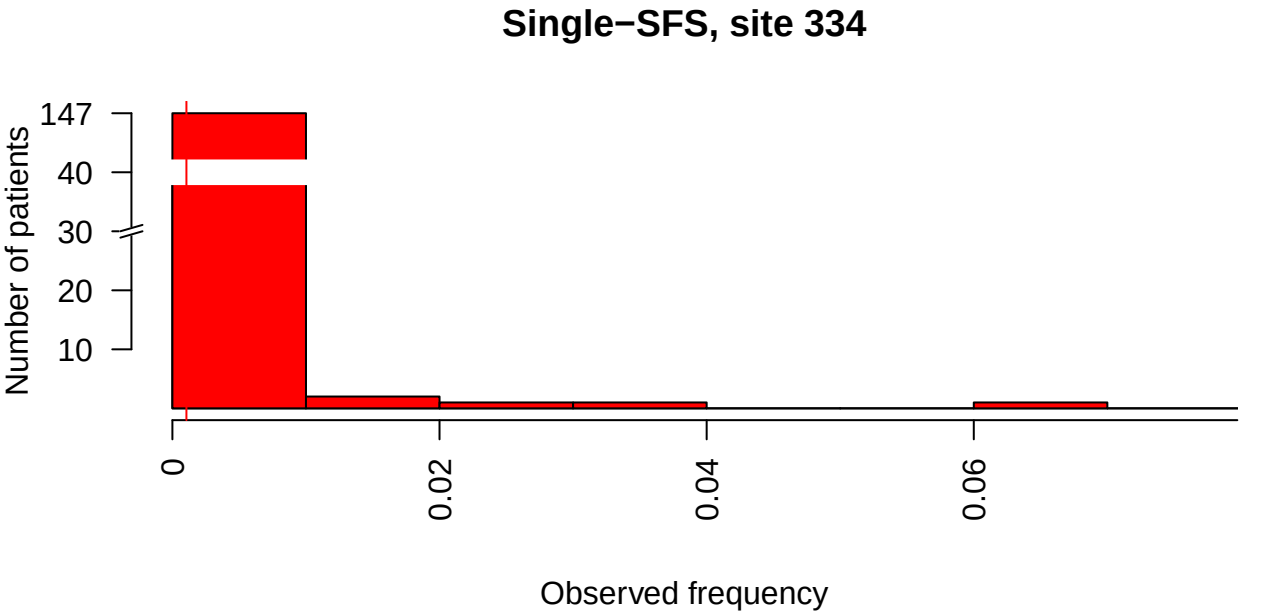

Simulated data, cost 0.0053
Number of patients
147
40
30
20
10
pvalue= 0.363
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
Observed frequency

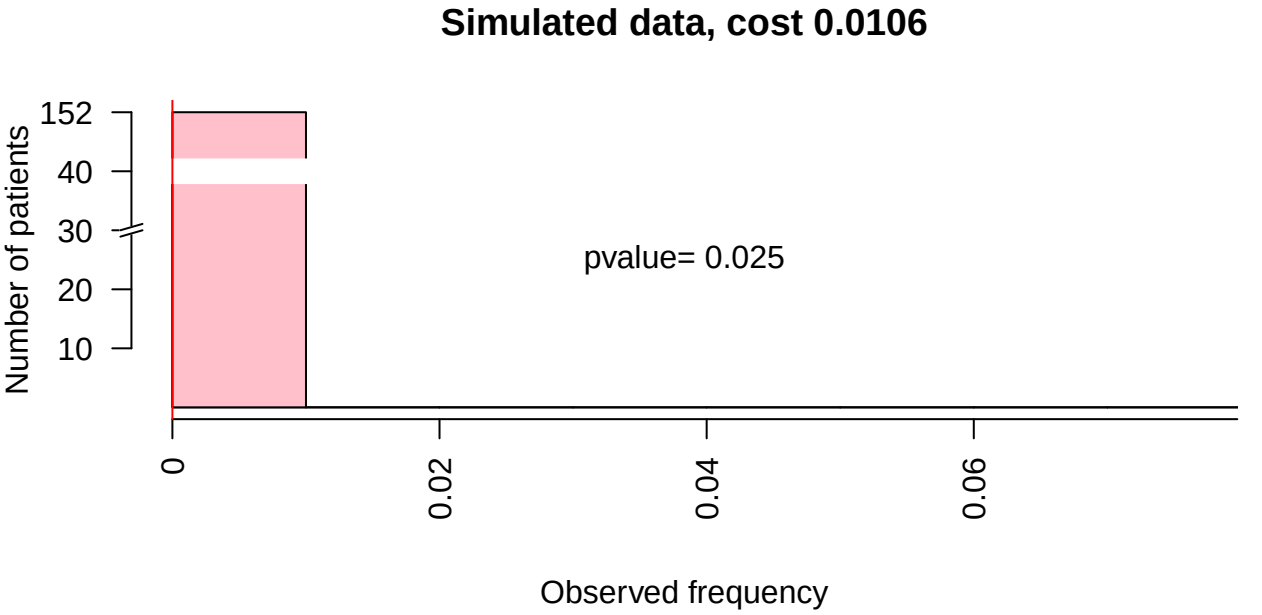

Single−SFS, site 332
Number of patients
156
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
Observed frequency

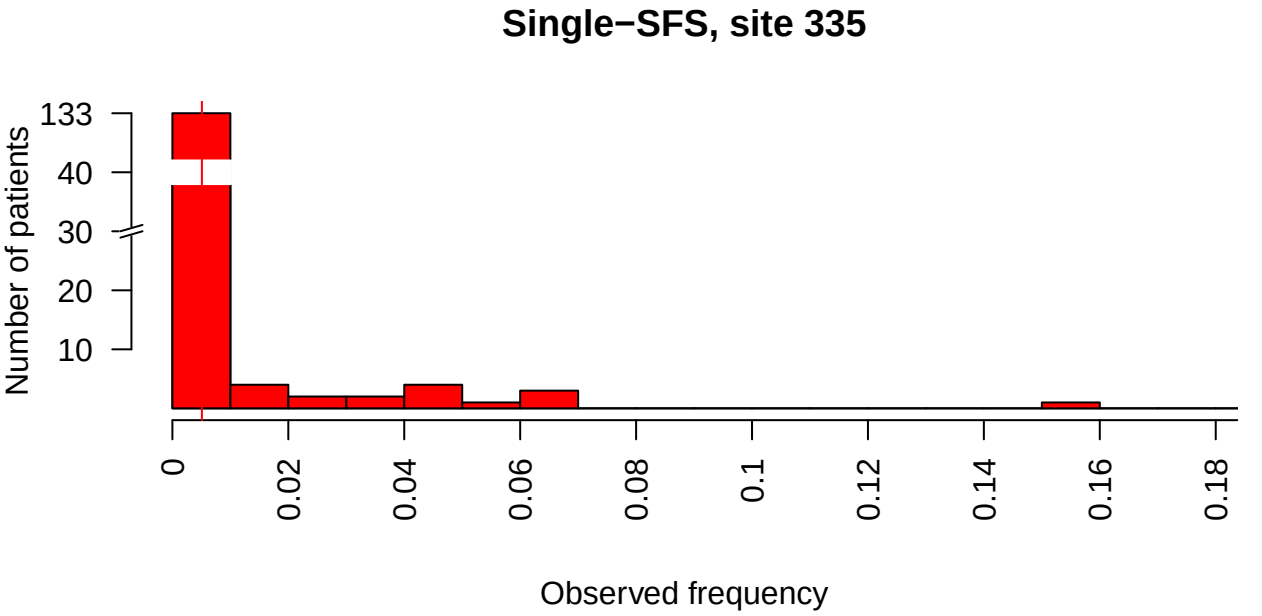

Simulated data, cost 0.0166
Number of patients
154
40
30
20
10
pvalue= 0.412
0
0.02
0.04
0.06
0.08
0.1
Observed frequency

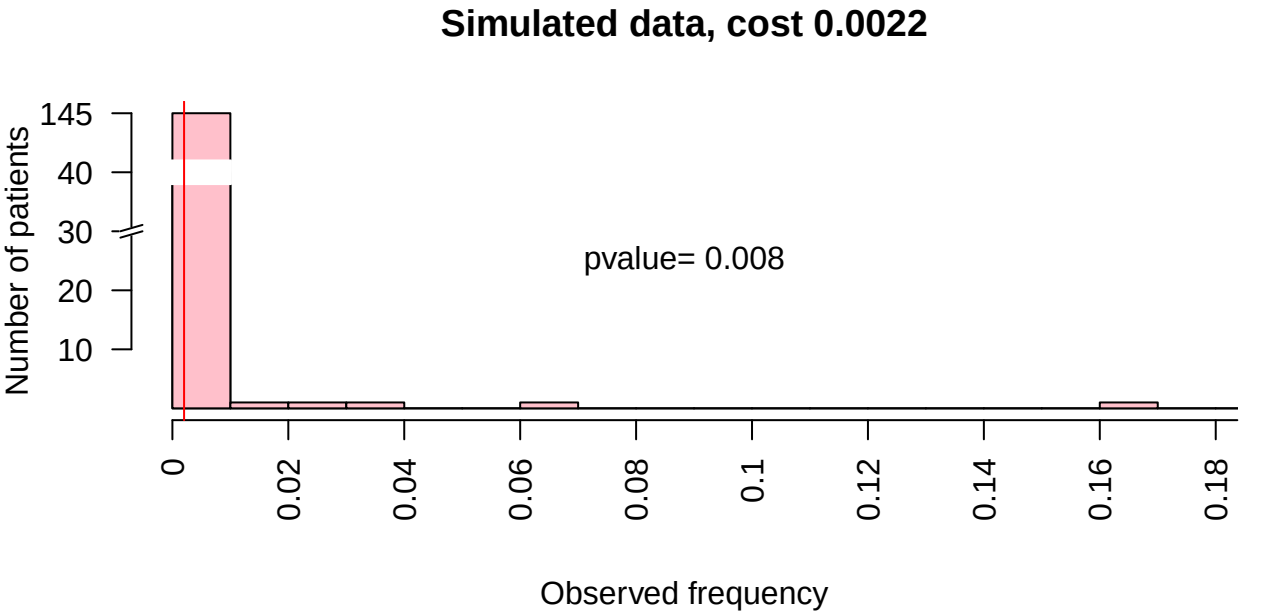

Single−SFS, site 333
Number of patients
140
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
0.24
0.26
0.28
0.3
0.32
0.34
0.36
0.38
0.4
0.42
0.44
0.46
Observed frequency

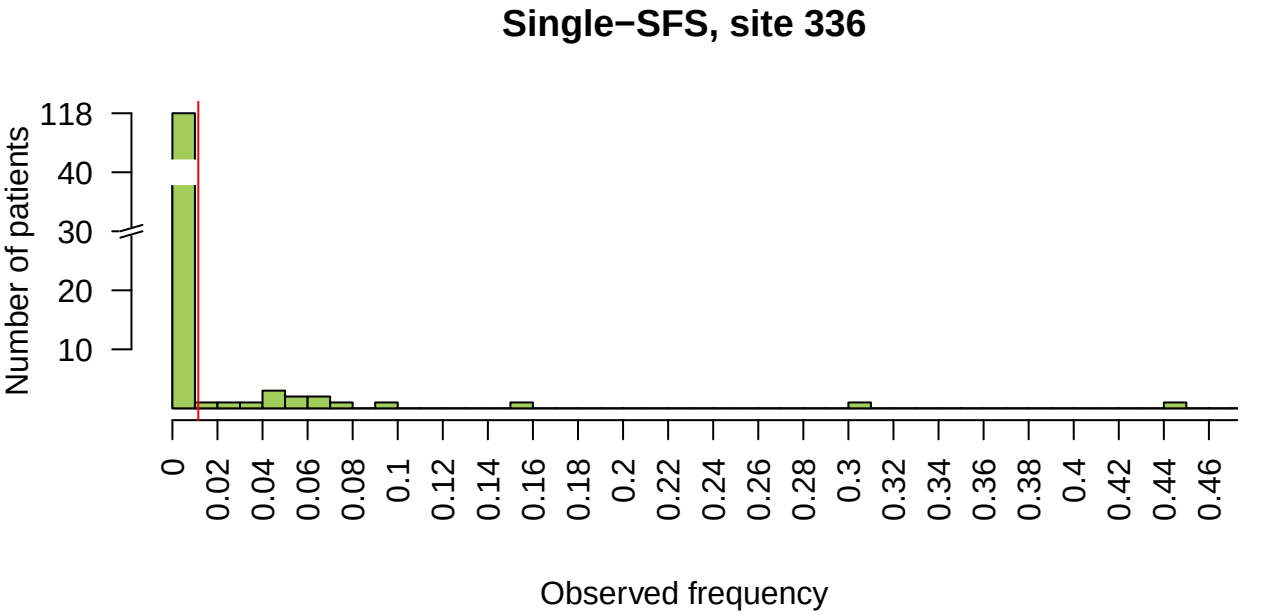

Simulated data, cost 0.0013
Number of patients
136
40
30
20
10
pvalue= 0.41
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
0.24
0.26
0.28
0.3
0.32
0.34
0.36
0.38
0.4
0.42
0.44
0.46
Observed frequency

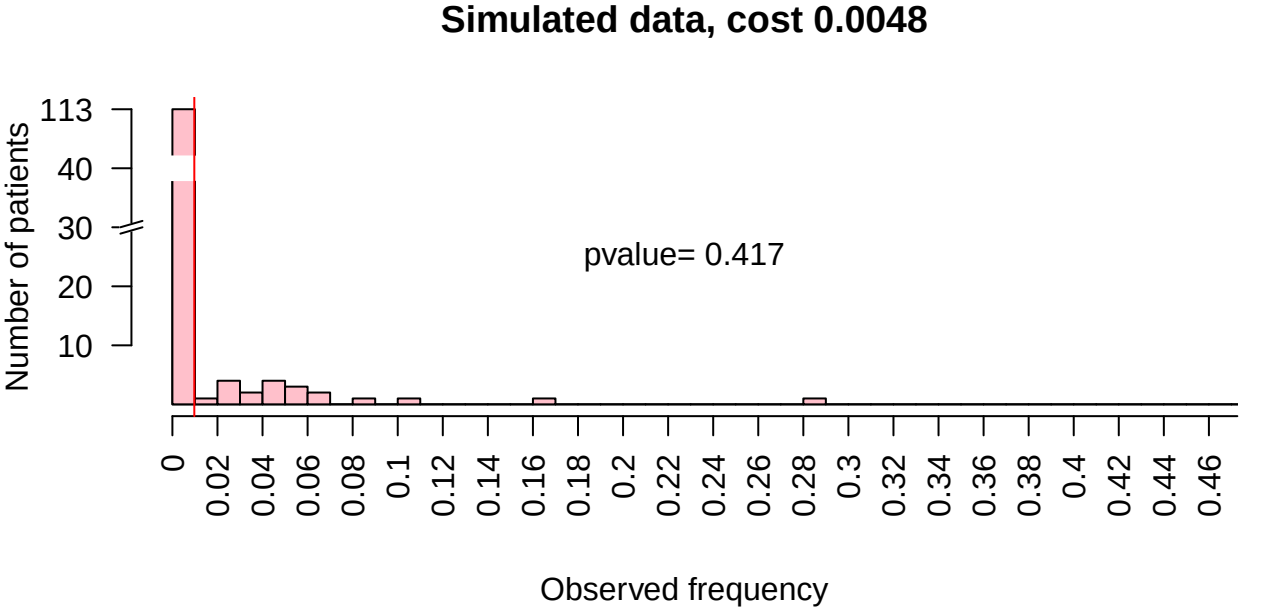

Single−SFS, site 334
Number of patients
147
40
30
20
10
0
0.02
0.04
0.06
Observed frequency

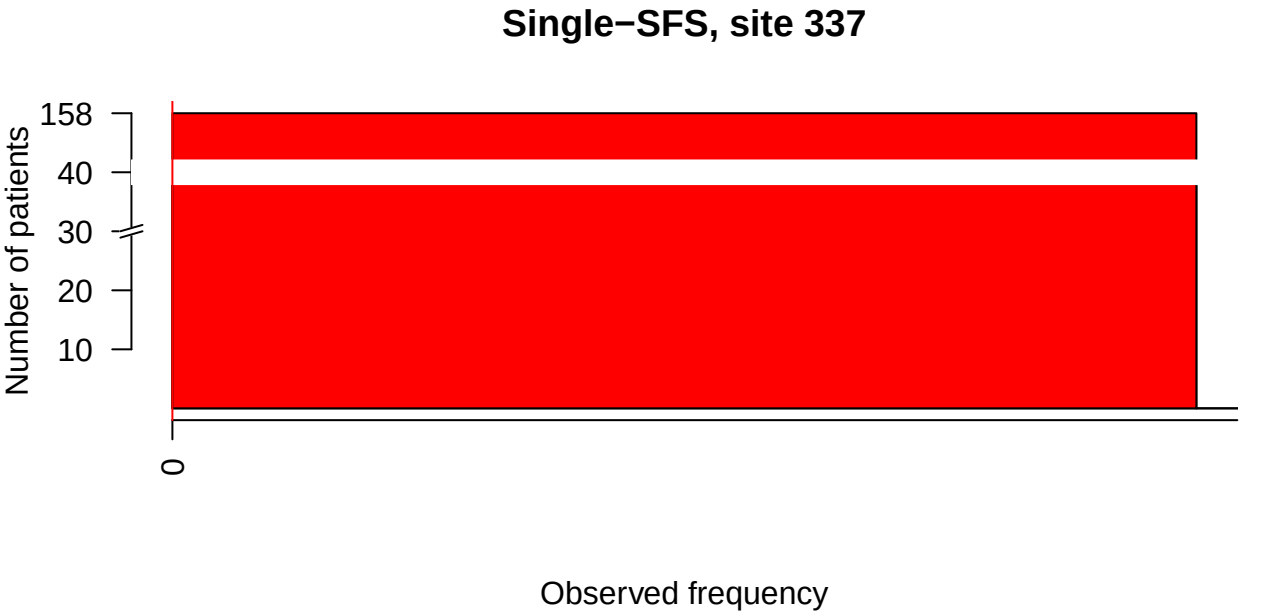

Simulated data, cost 0.0106
Number of patients
152
40
30
20
10
pvalue= 0.025
0
0.02
0.04
0.06
Observed frequency

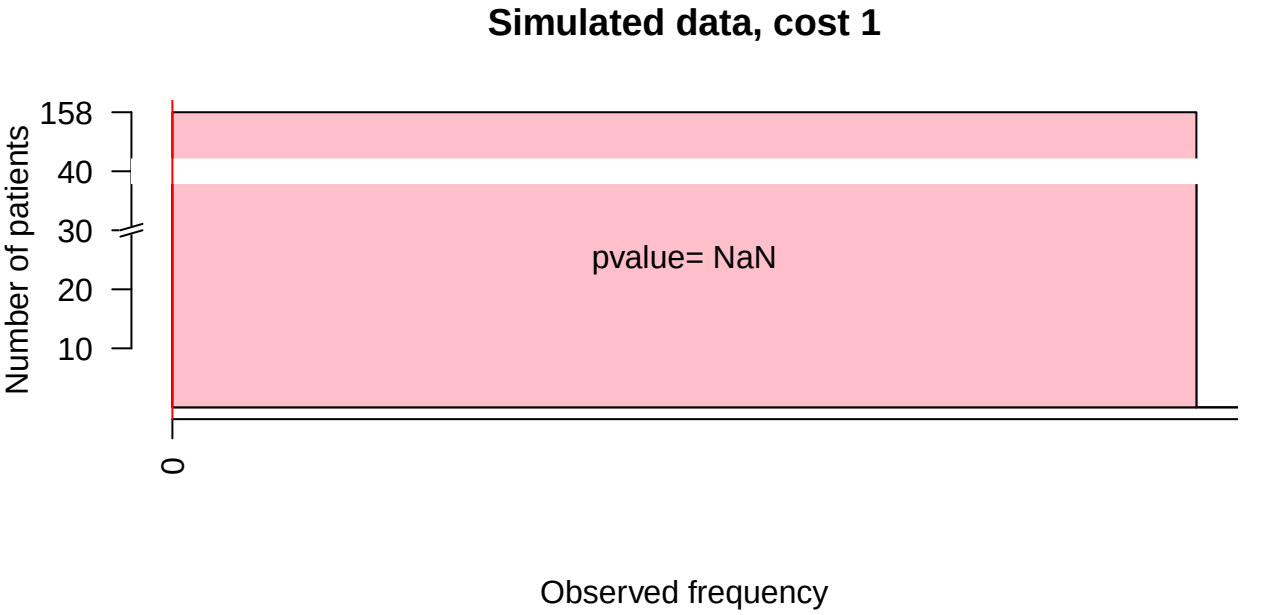

Single−SFS, site 335
Number of patients
133
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
Observed frequency

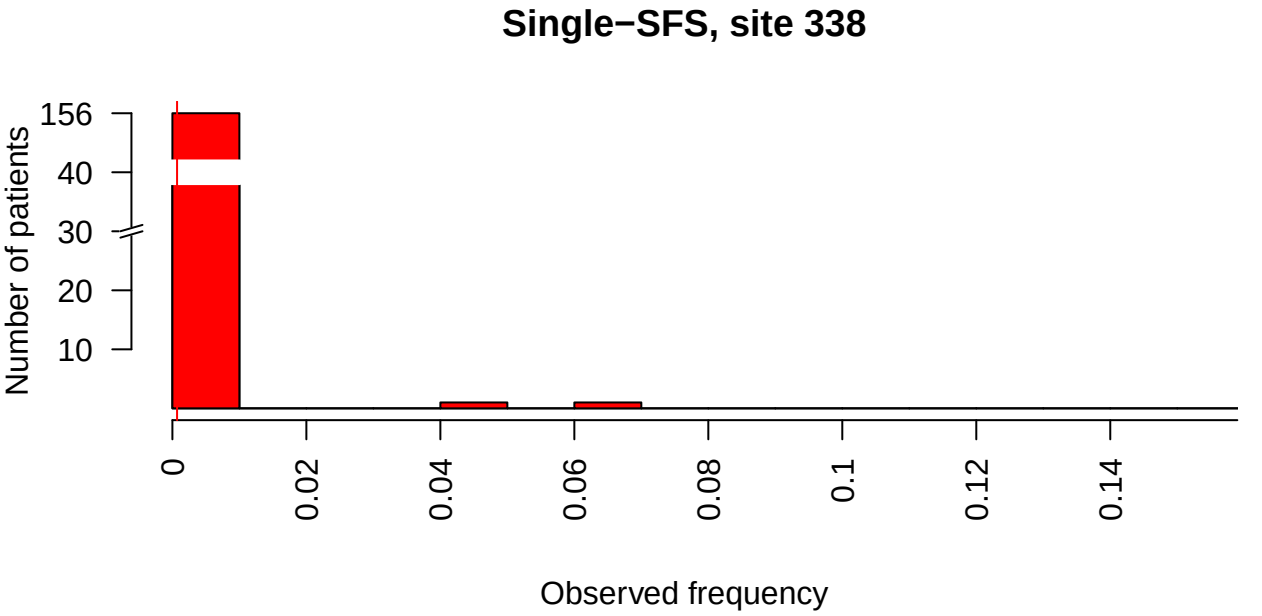

Simulated data, cost 0.0022
Number of patients
145
40
30
20
10
pvalue= 0.008
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
Observed frequency

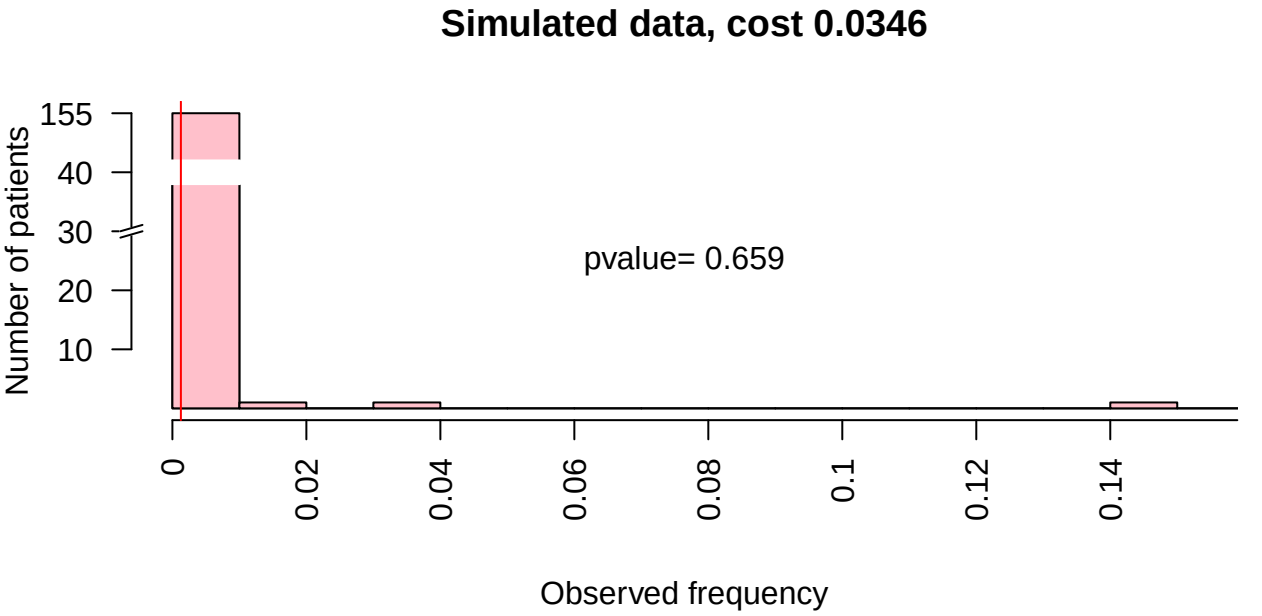

Single−SFS, site 336
Number of patients
118
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
0.24
0.26
0.28
0.3
0.32
0.34
0.36
0.38
0.4
0.42
0.44
0.46
Observed frequency

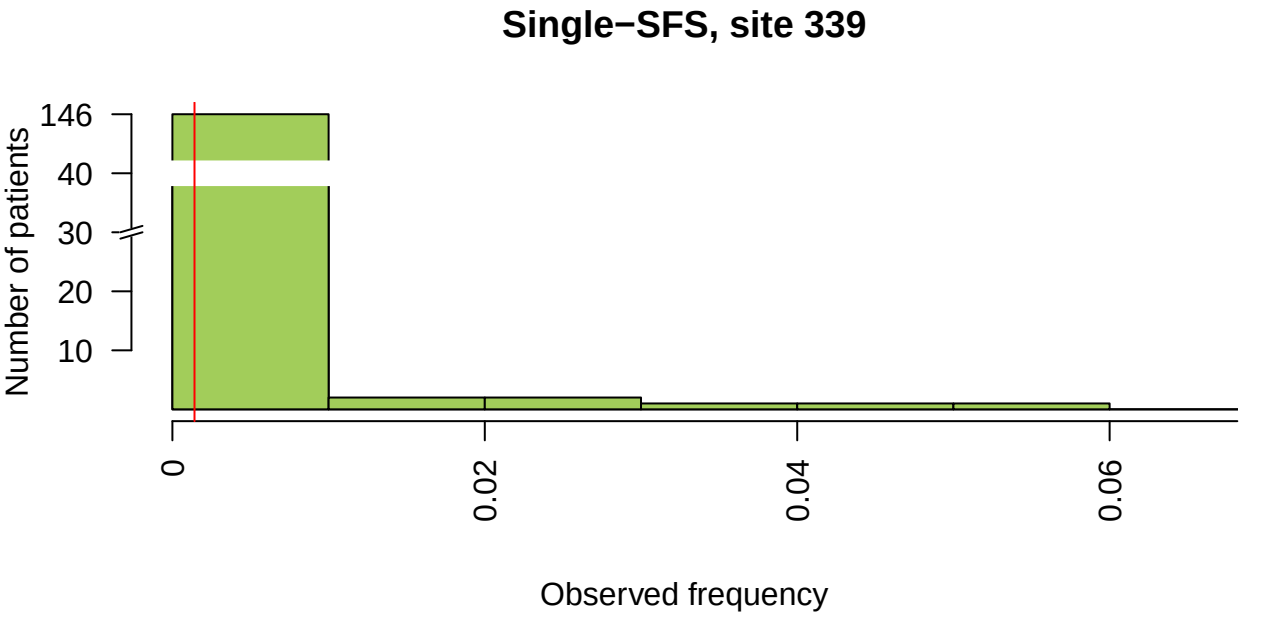

Simulated data, cost 0.0048
Number of patients
113
40
30
20
10
pvalue= 0.417
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
0.24
0.26
0.28
0.3
0.32
0.34
0.36
0.38
0.4
0.42
0.44
0.46
Observed frequency

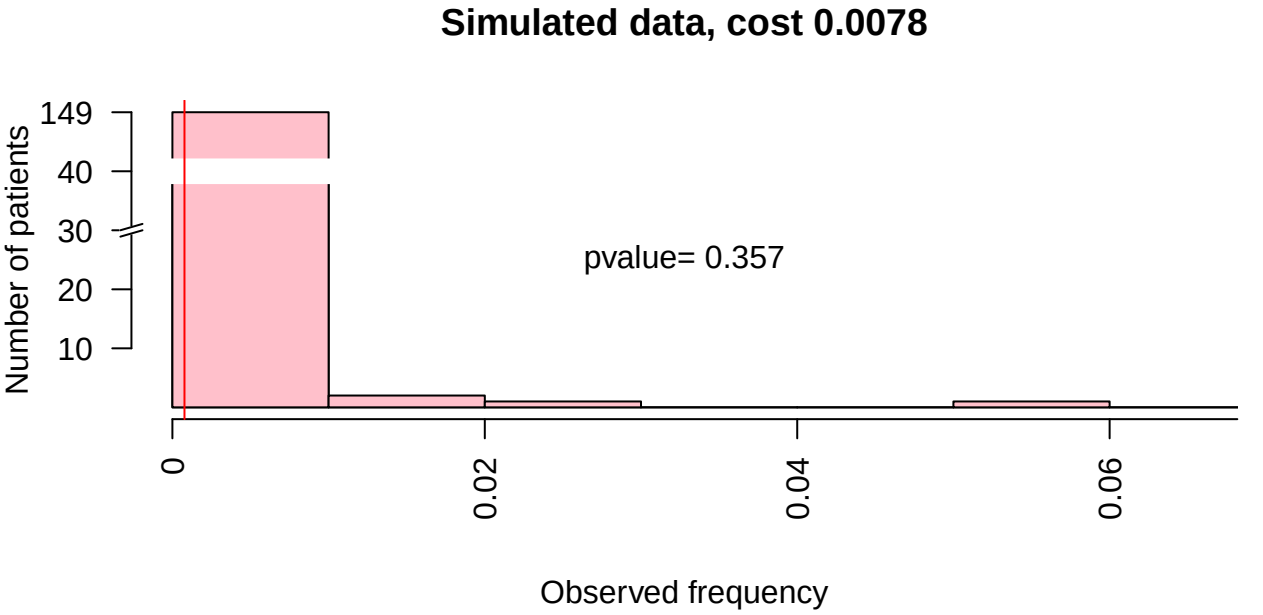

Single−SFS, site 337
Number of patients
158
40
30
20
10
0
Observed frequency

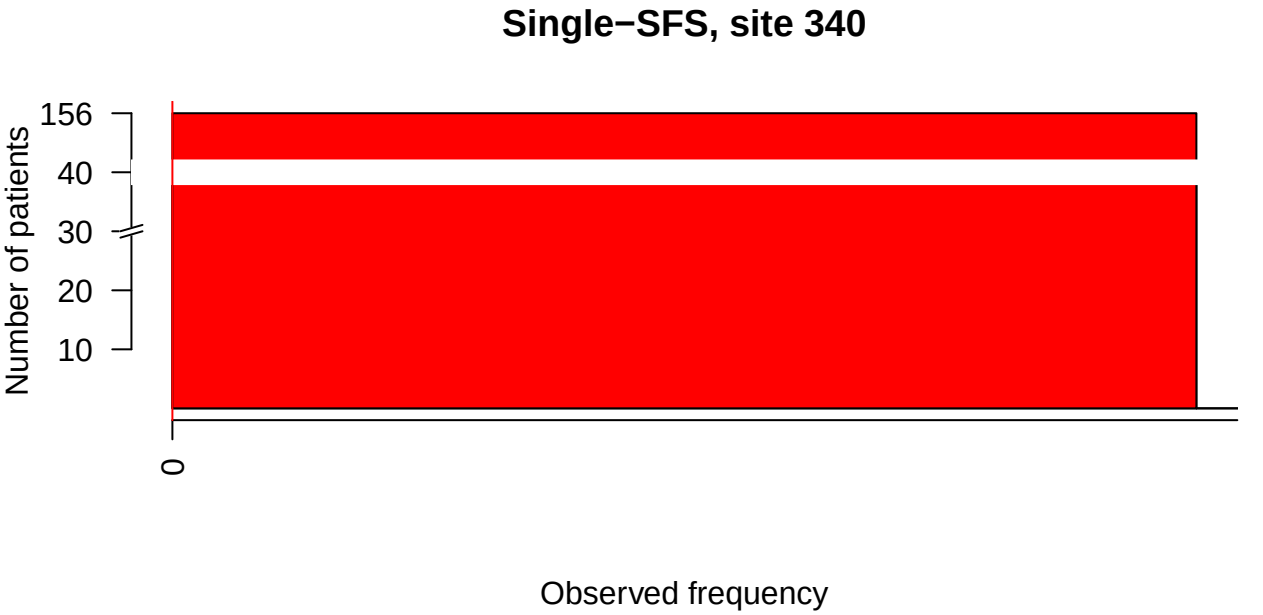

Simulated data, cost 1
Number of patients
158
40
30
20
10
0
pvalue= NaN
Observed frequency

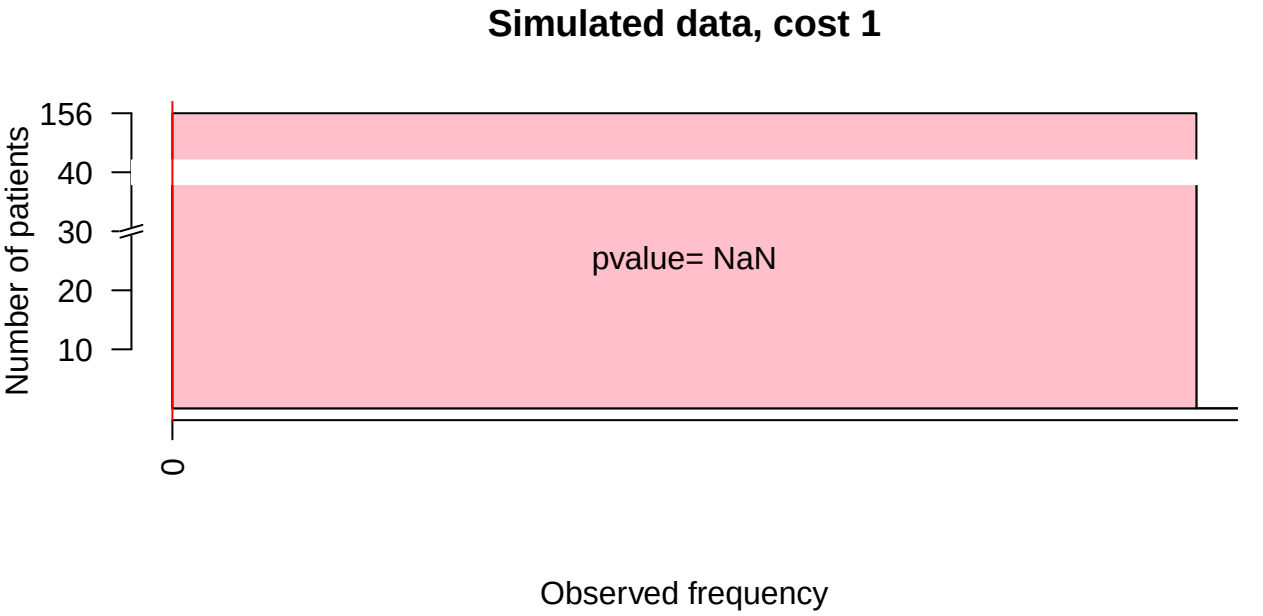

Single−SFS, site 338
Number of patients
156
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
Observed frequency

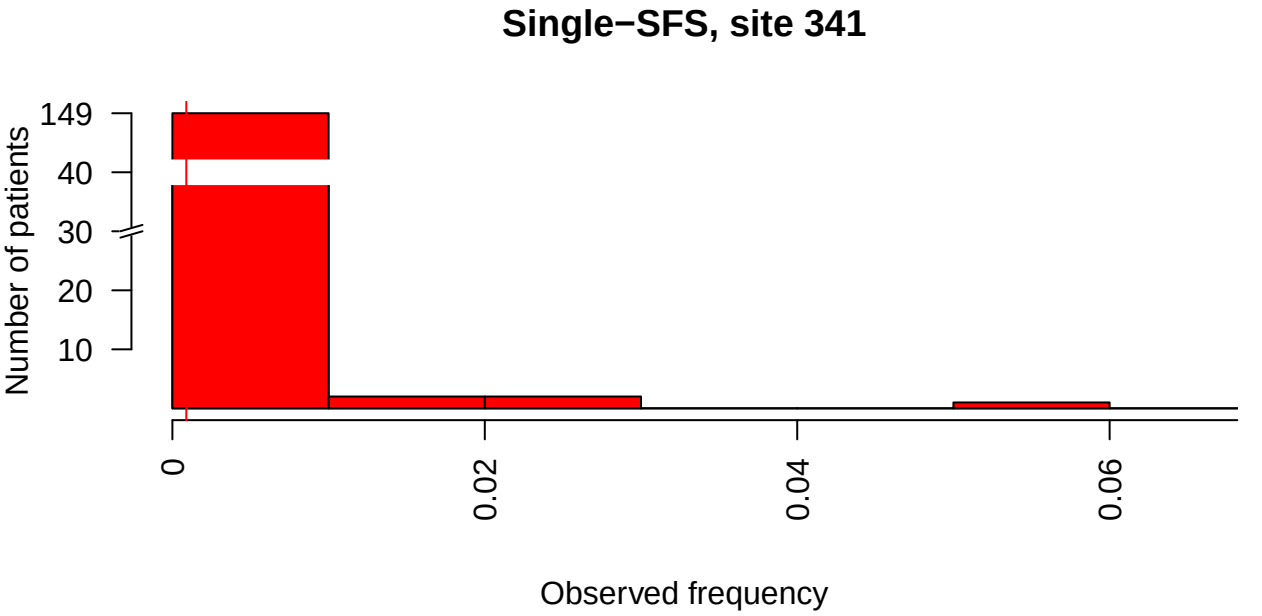

Simulated data, cost 0.0346
Number of patients
155
40
30
20
10
pvalue= 0.659
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
Observed frequency

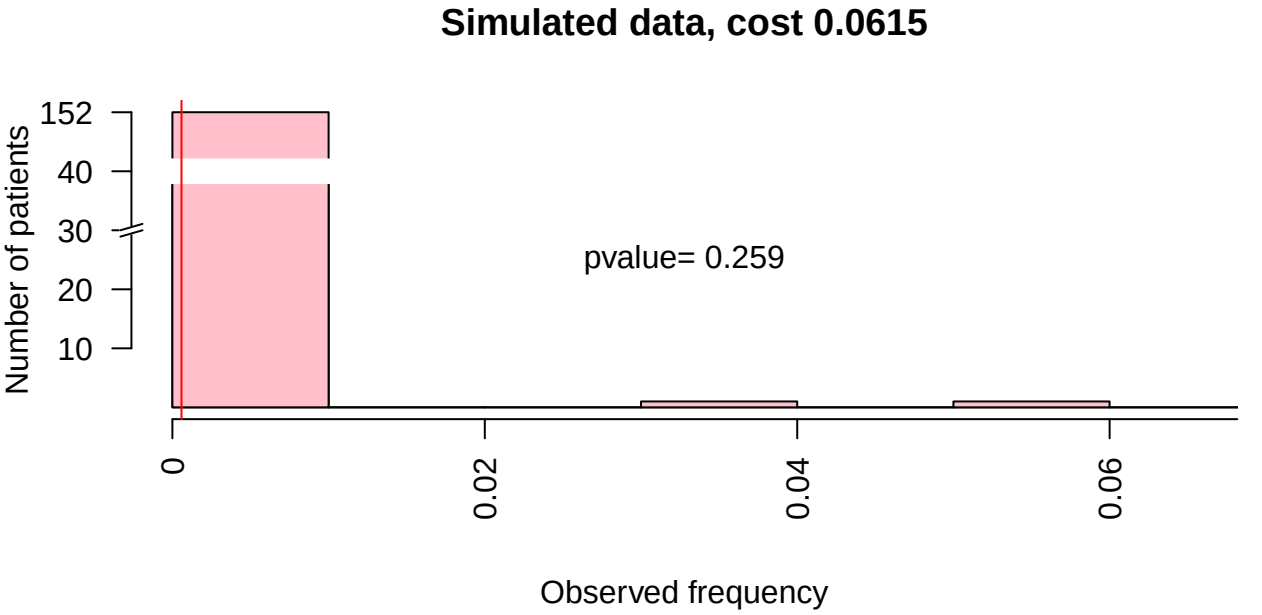

Single−SFS, site 339
Number of patients
146
40
30
20
10
0
0.02
0.04
0.06
Observed frequency

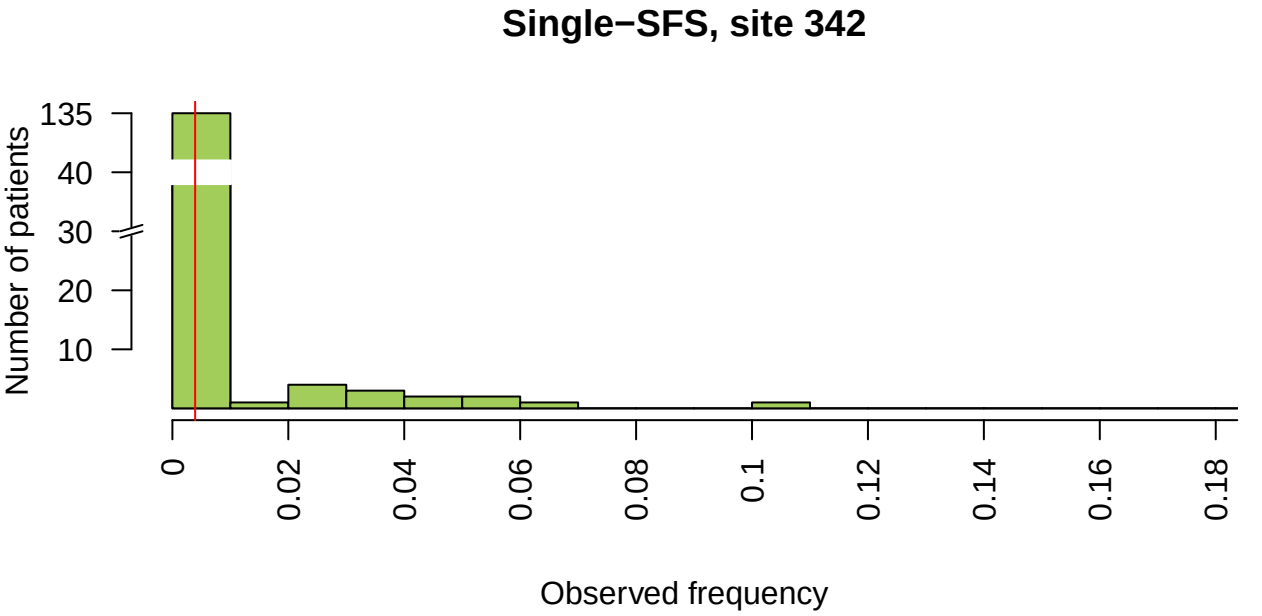

Simulated data, cost 0.0078
Number of patients
149
40
30
20
10
pvalue= 0.357
0
0.02
0.04
0.06
Observed frequency

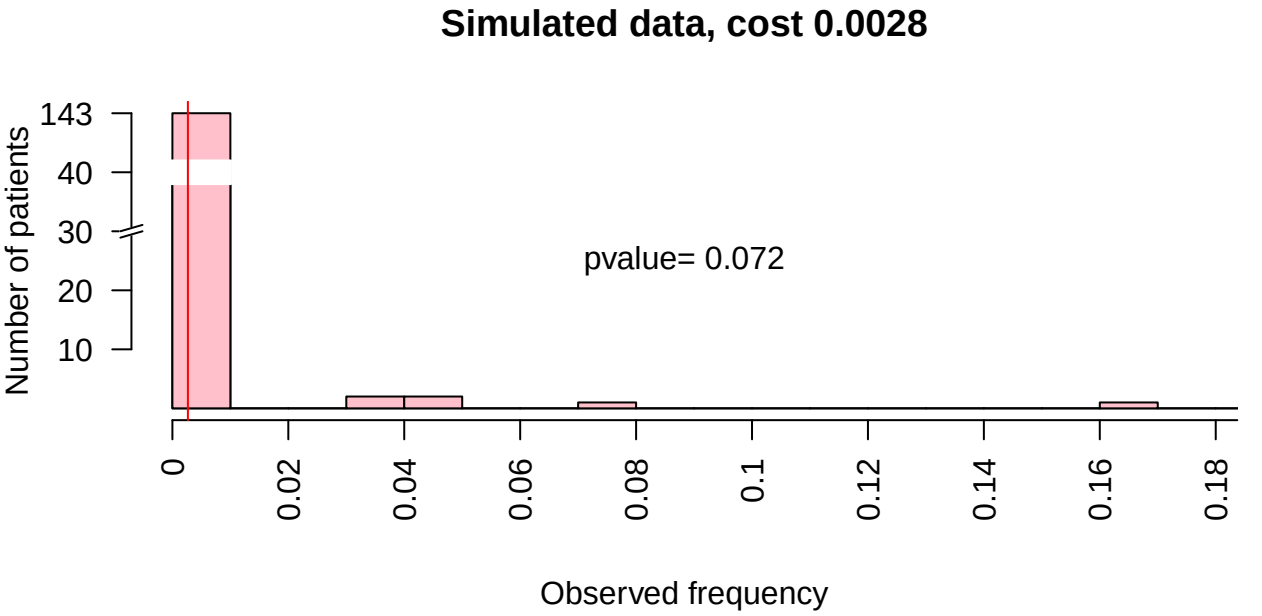

Single−SFS, site 340
Number of patients
156
40
30
20
10
0
Observed frequency

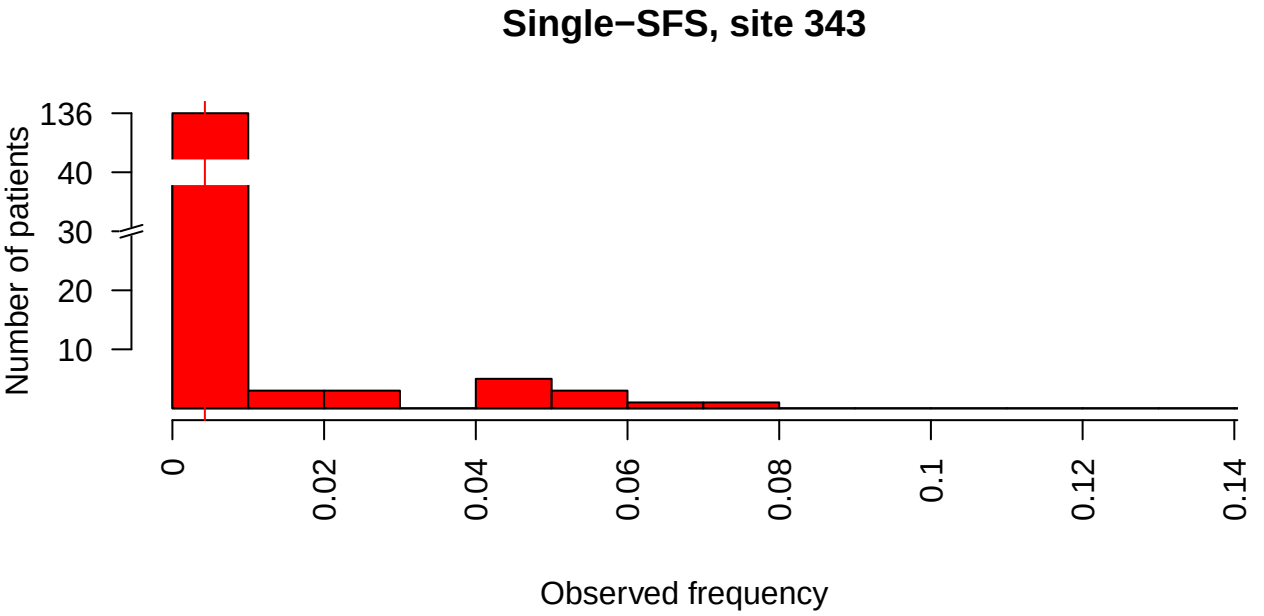

Simulated data, cost 1
Number of patients
156
40
30
20
10
0
pvalue= NaN
Observed frequency

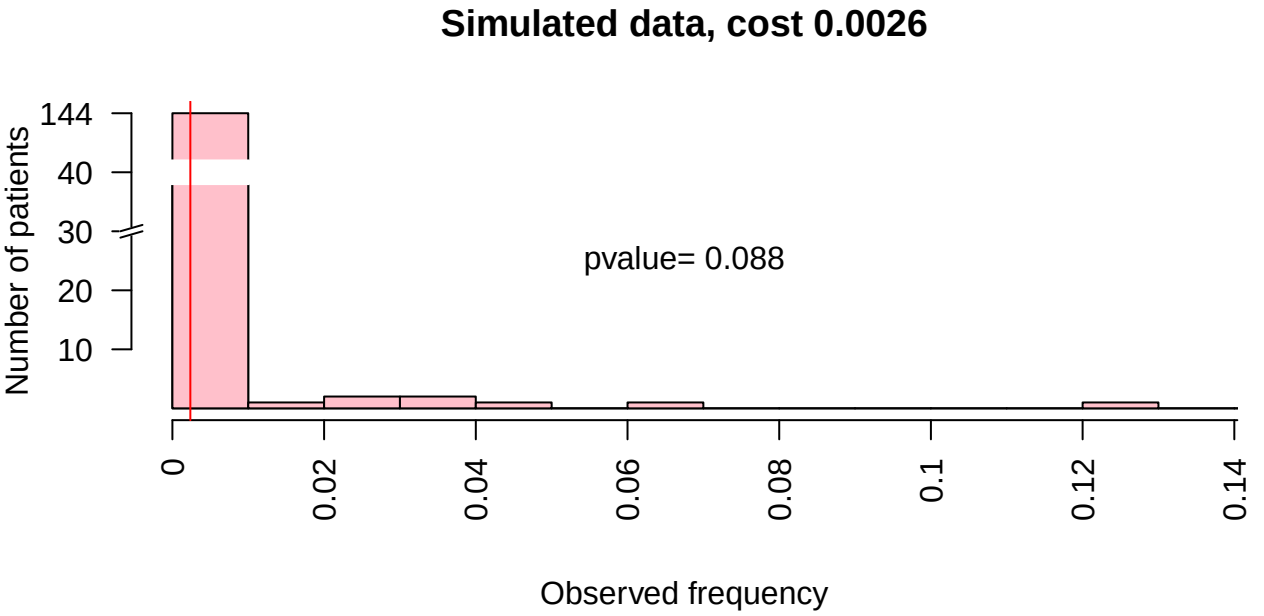

Single−SFS, site 341
Number of patients
149
40
30
20
10
0
0.02
0.04
0.06
Observed frequency

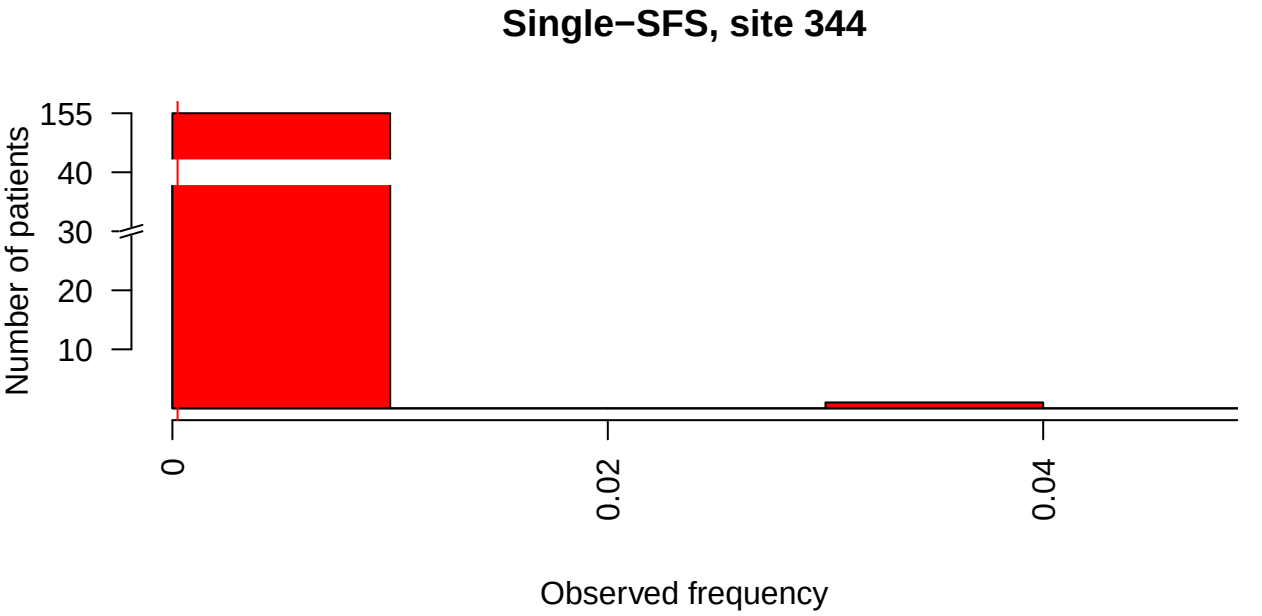

Simulated data, cost 0.0615
Number of patients
152
40
30
20
10
pvalue= 0.259
0
0.02
0.04
0.06
Observed frequency

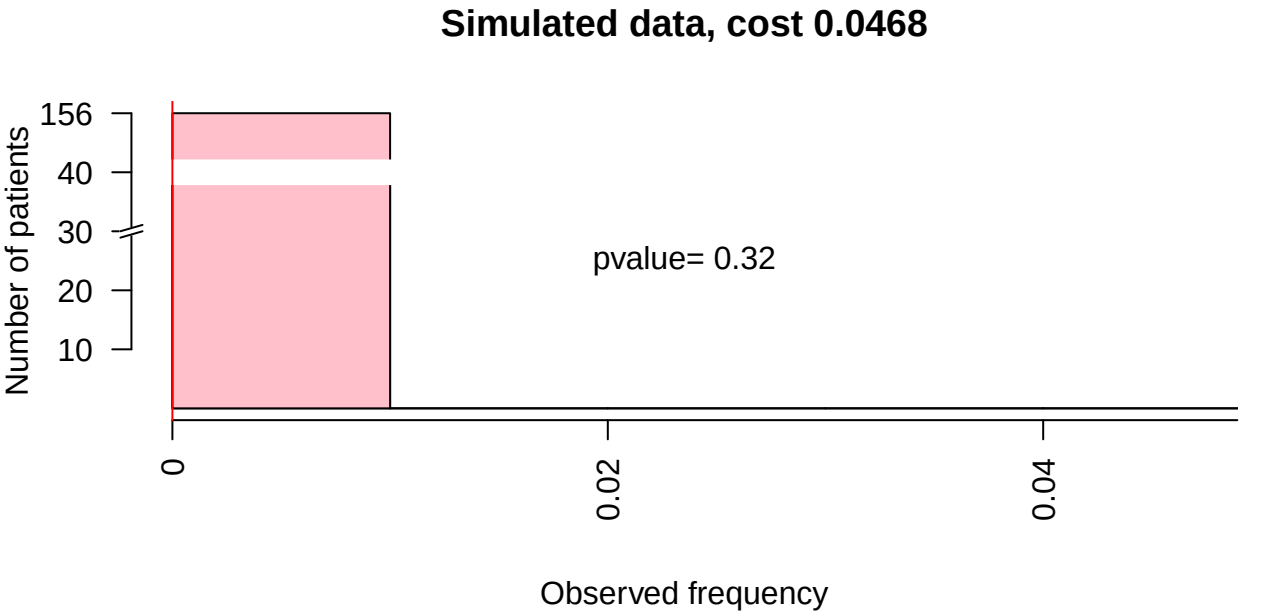

Single−SFS, site 342
Number of patients
135
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
Observed frequency

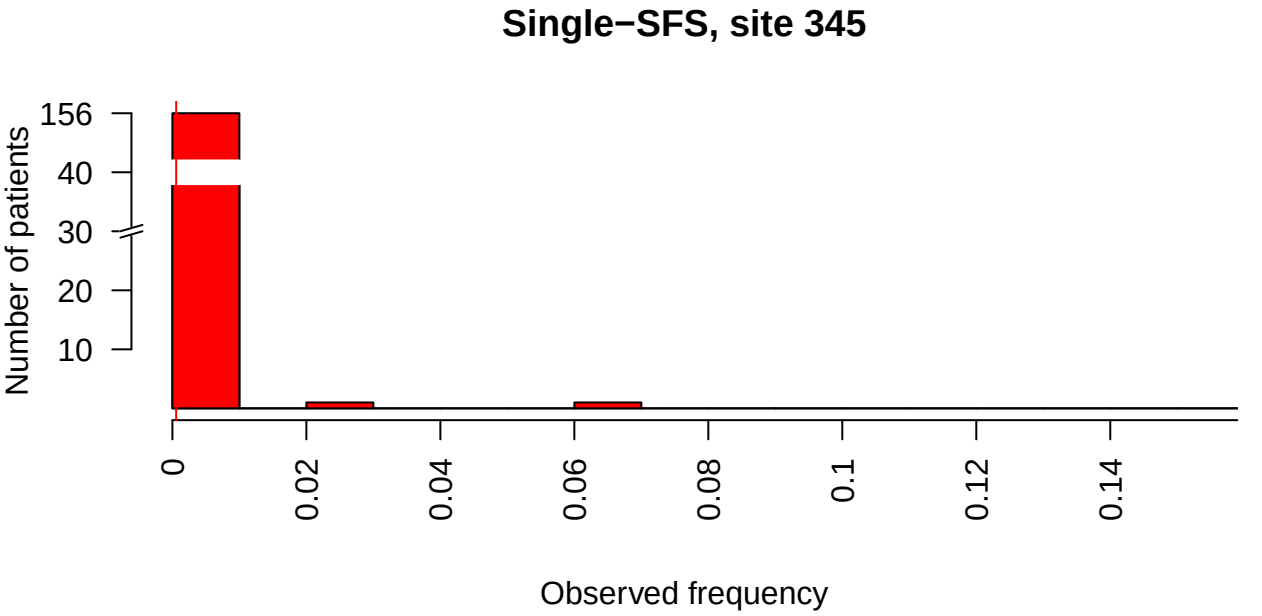

Simulated data, cost 0.0028
Number of patients
143
40
30
20
10
pvalue= 0.072
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
Observed frequency

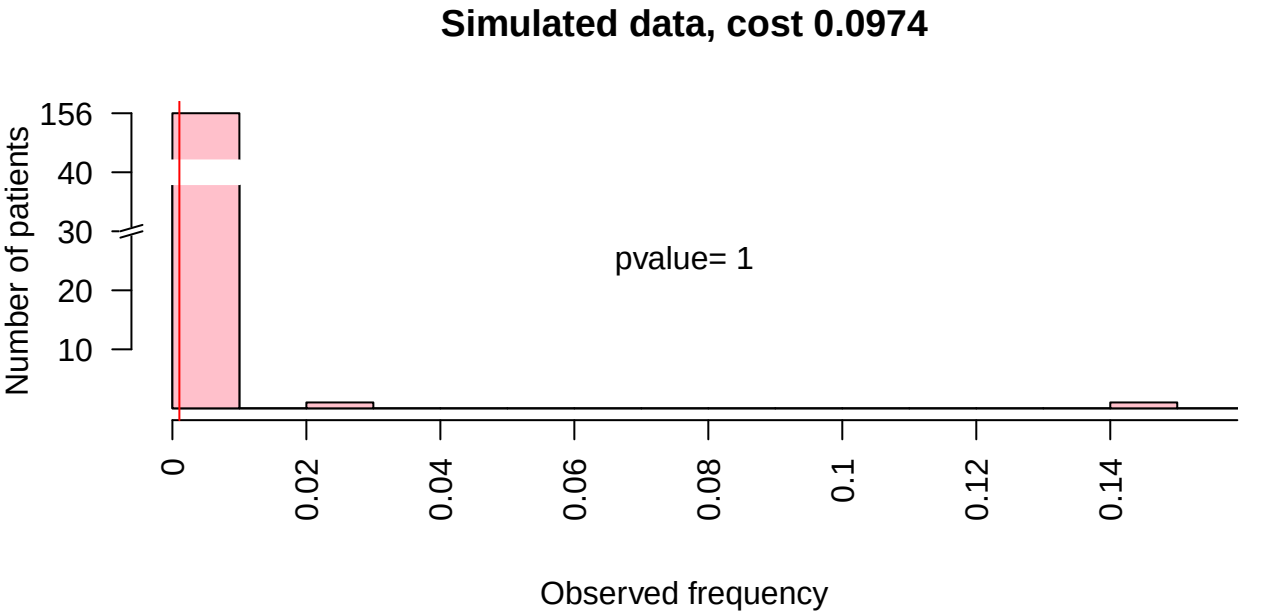

Single−SFS, site 343
Number of patients
136
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
Observed frequency

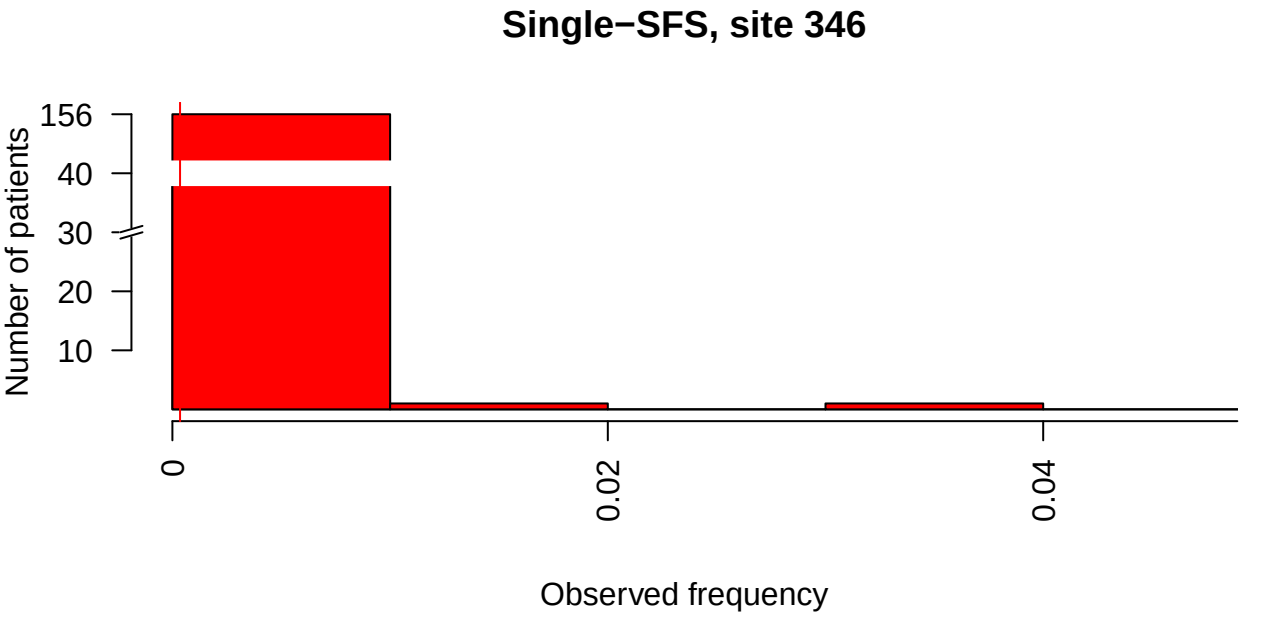

Simulated data, cost 0.0026
Number of patients
144
40
30
20
10
pvalue= 0.088
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
Observed frequency

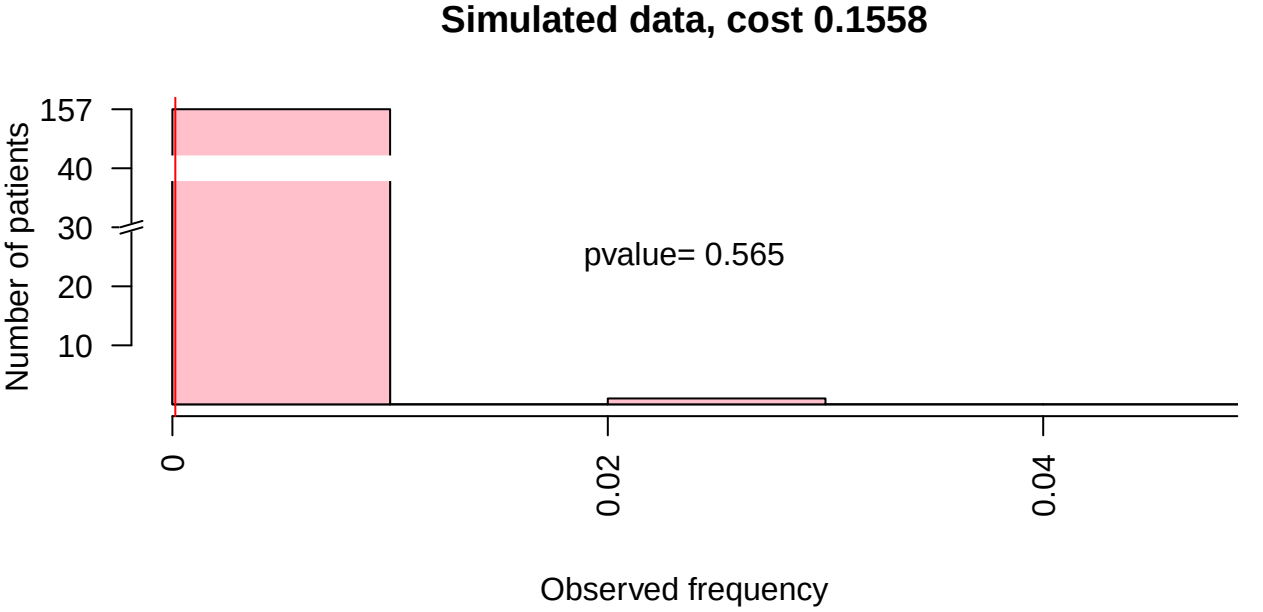

Single−SFS, site 344
Number of patients
155
40
30
20
10
0
0.02
0.04
Observed frequency

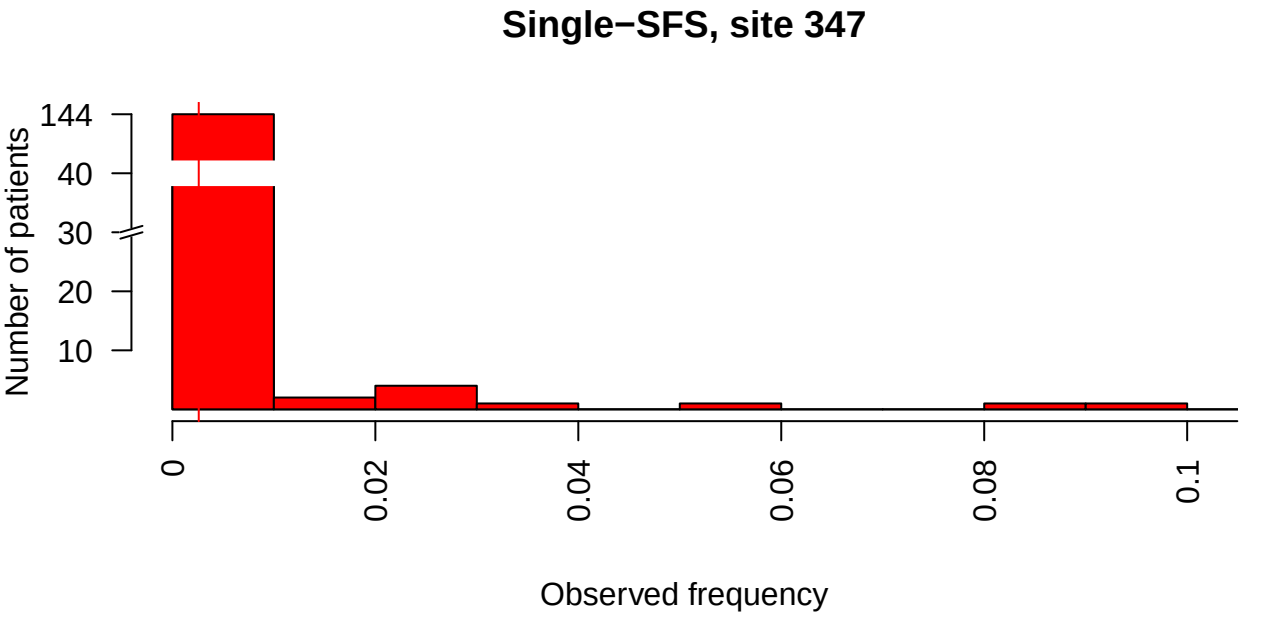

Simulated data, cost 0.0468
Number of patients
156
40
30
20
10
pvalue= 0.32
0
0.02
0.04
Observed frequency

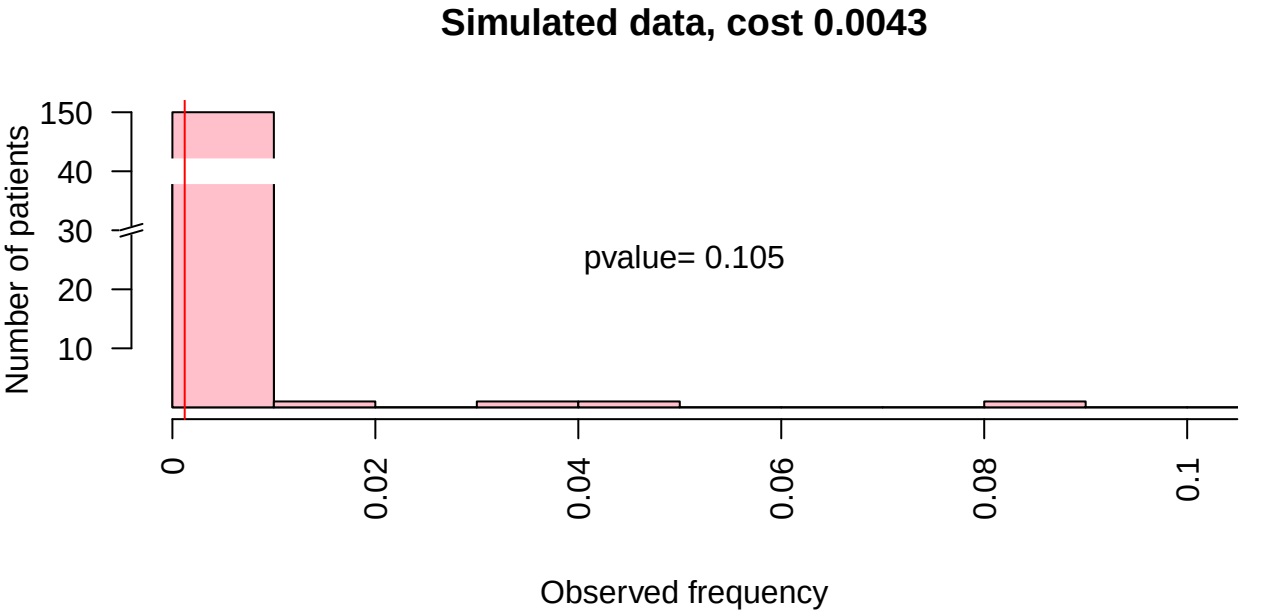

Single−SFS, site 345
Number of patients
156
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
Observed frequency

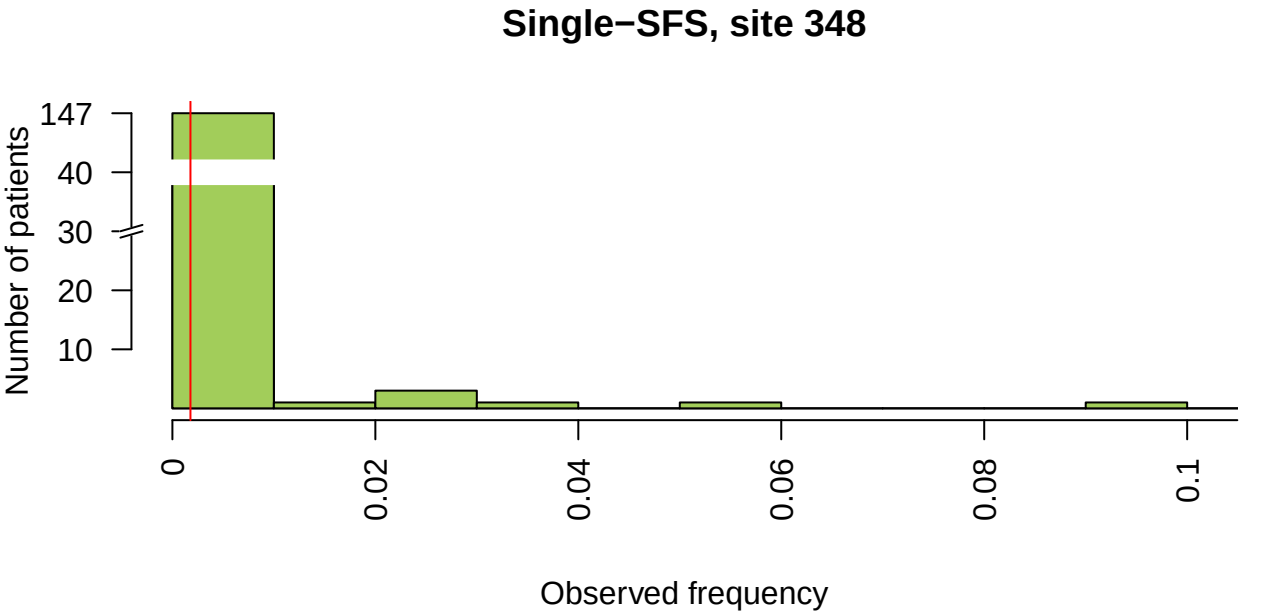

Simulated data, cost 0.0974
Number of patients
156
40
30
20
10
pvalue= 1
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
Observed frequency

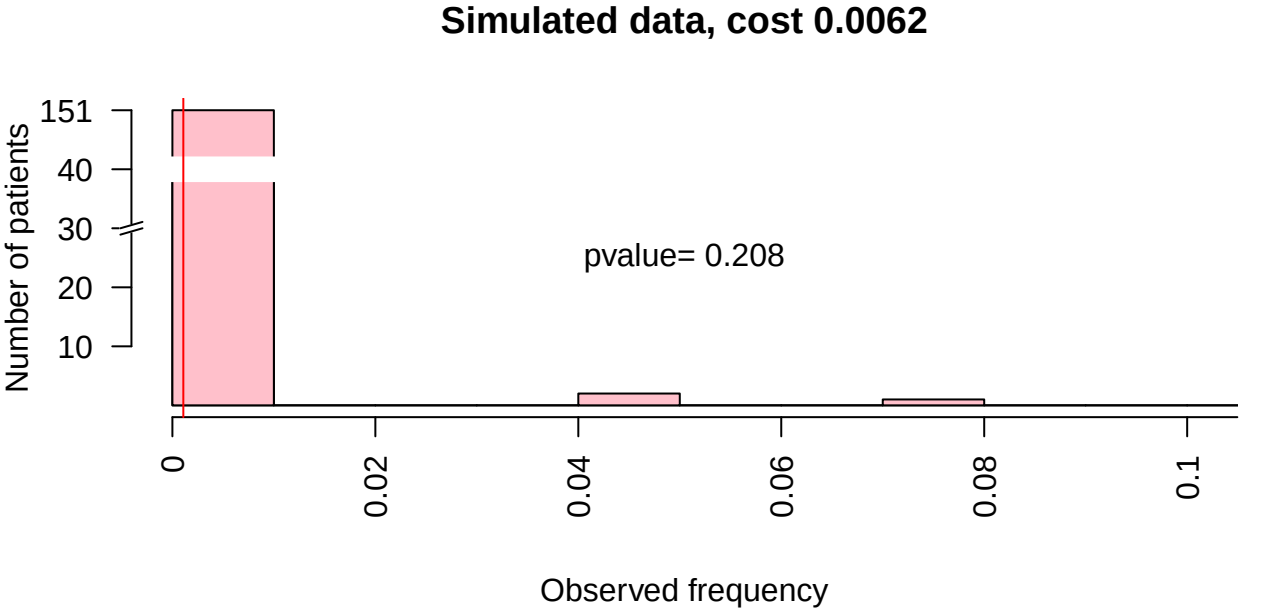

Single−SFS, site 346
Number of patients
156
40
30
20
10
0
0.02
0.04
Observed frequency

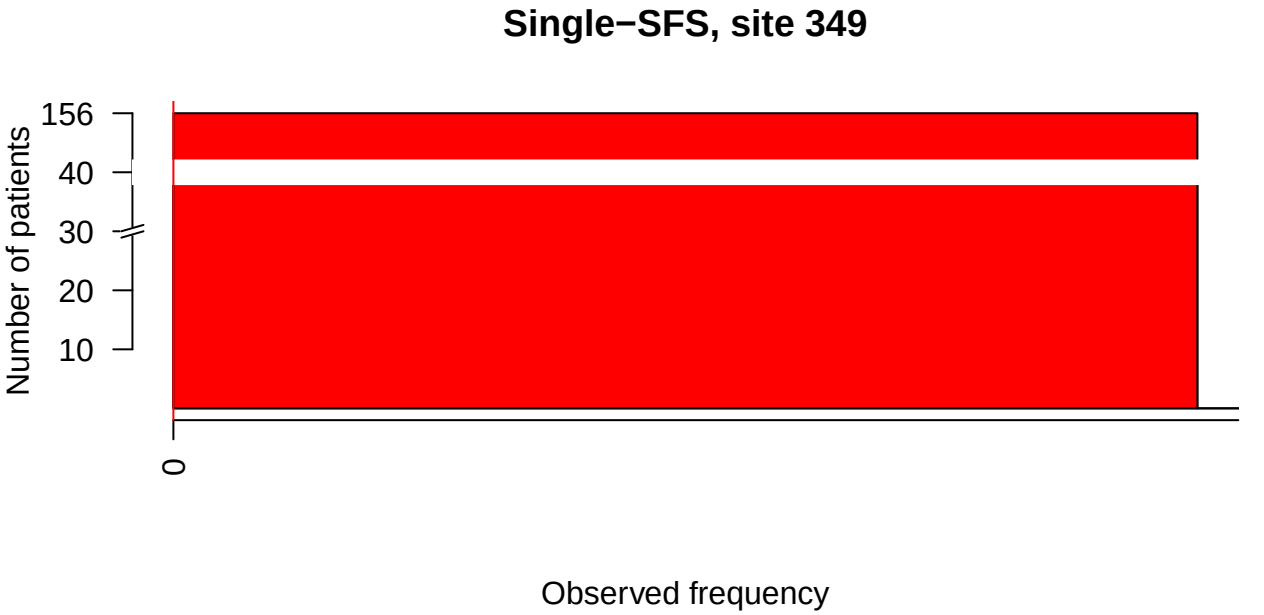

Simulated data, cost 0.1558
Number of patients
157
40
30
20
10
pvalue= 0.565
0
0.02
0.04
Observed frequency

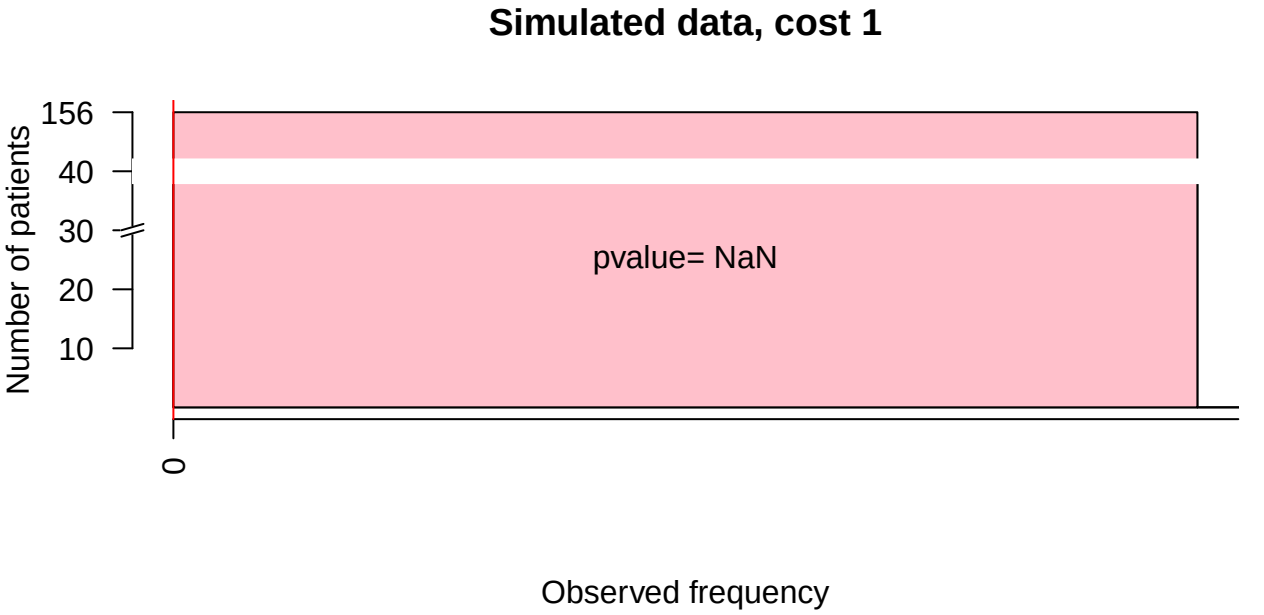

Single−SFS, site 347
Number of patients
144
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
Observed frequency

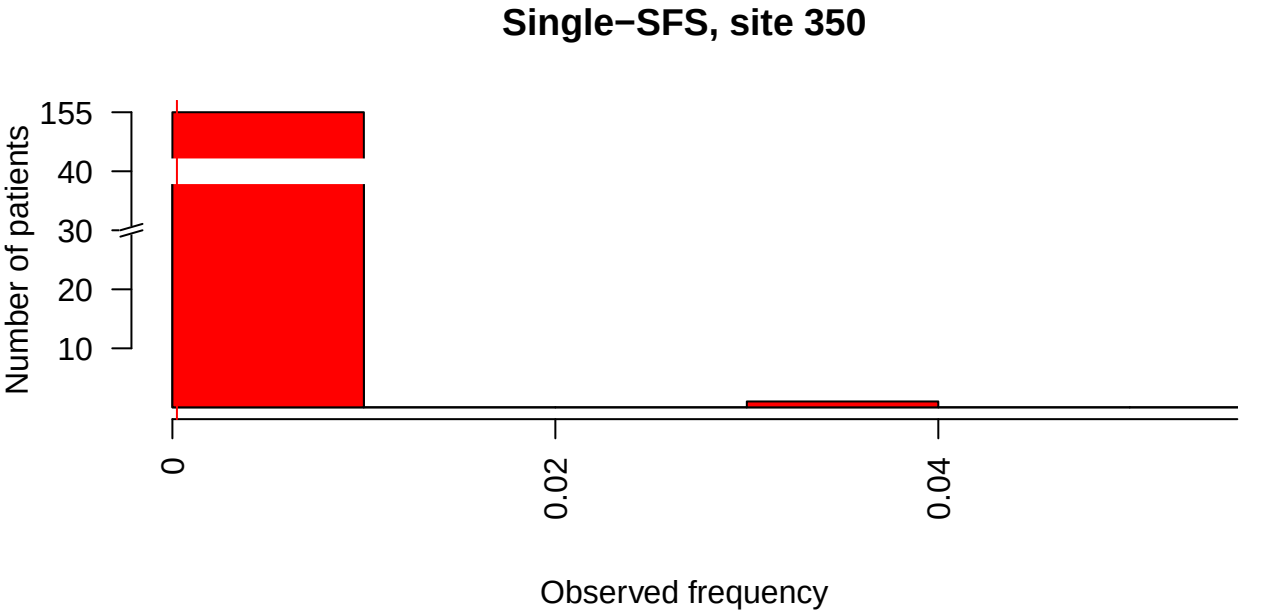

Simulated data, cost 0.0043
Number of patients
150
40
30
20
10
pvalue= 0.105
0
0.02
0.04
0.06
0.08
0.1
Observed frequency

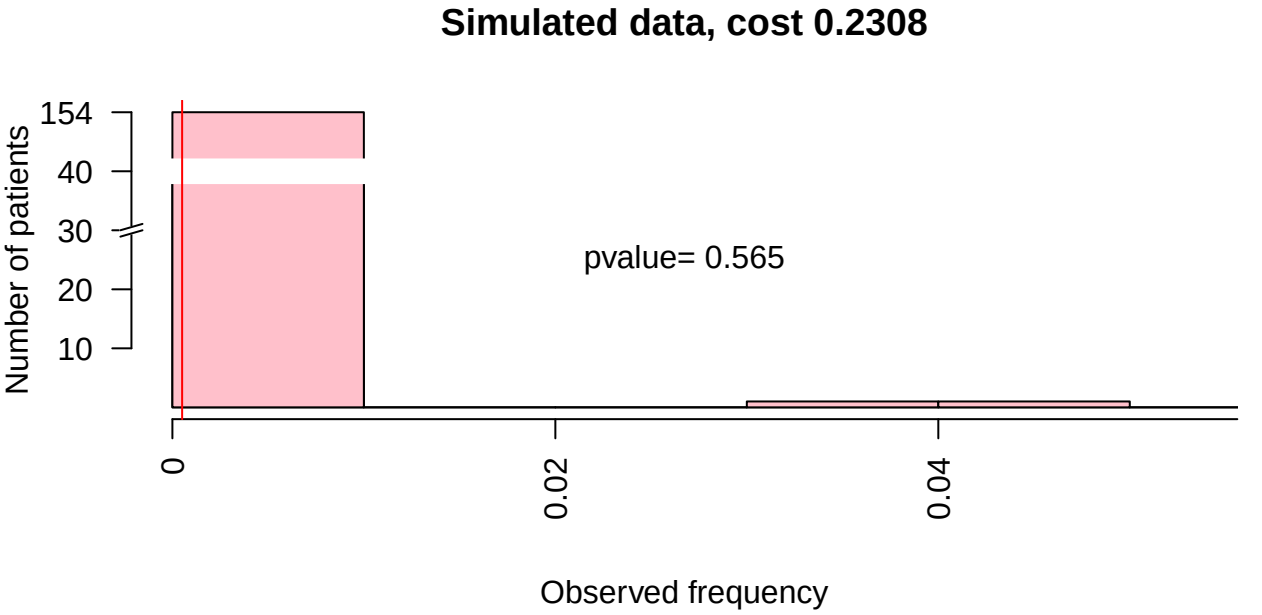

Single−SFS, site 348
Number of patients
147
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
Observed frequency

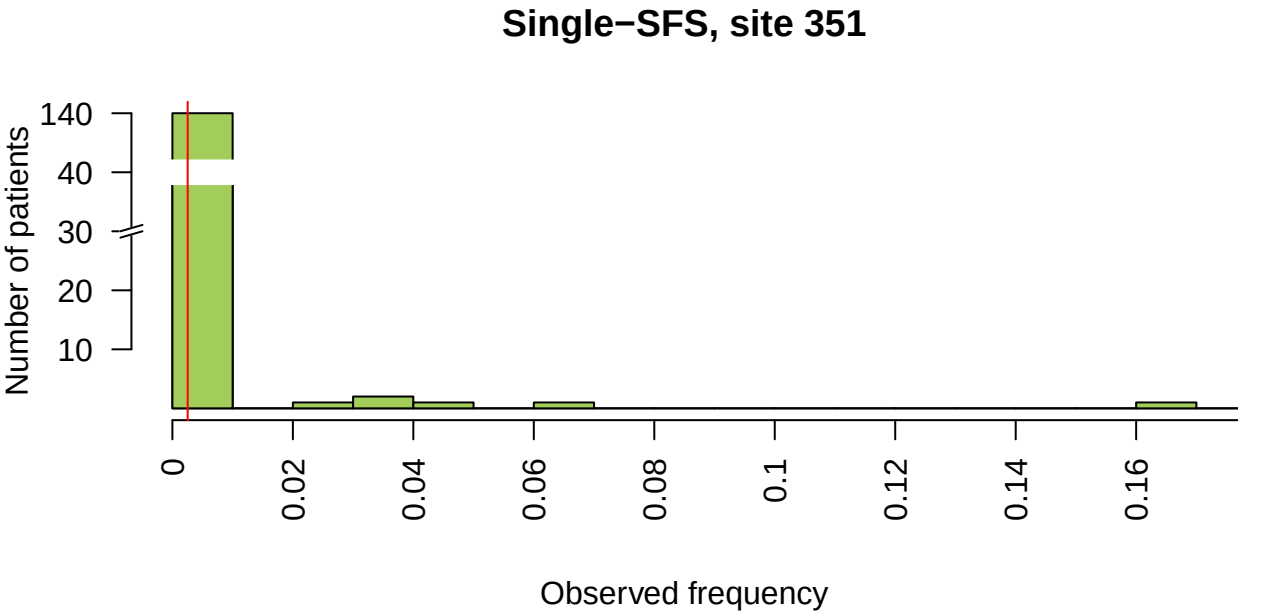

Simulated data, cost 0.0062
Number of patients
151
40
30
20
10
pvalue= 0.208
0
0.02
0.04
0.06
0.08
0.1
Observed frequency

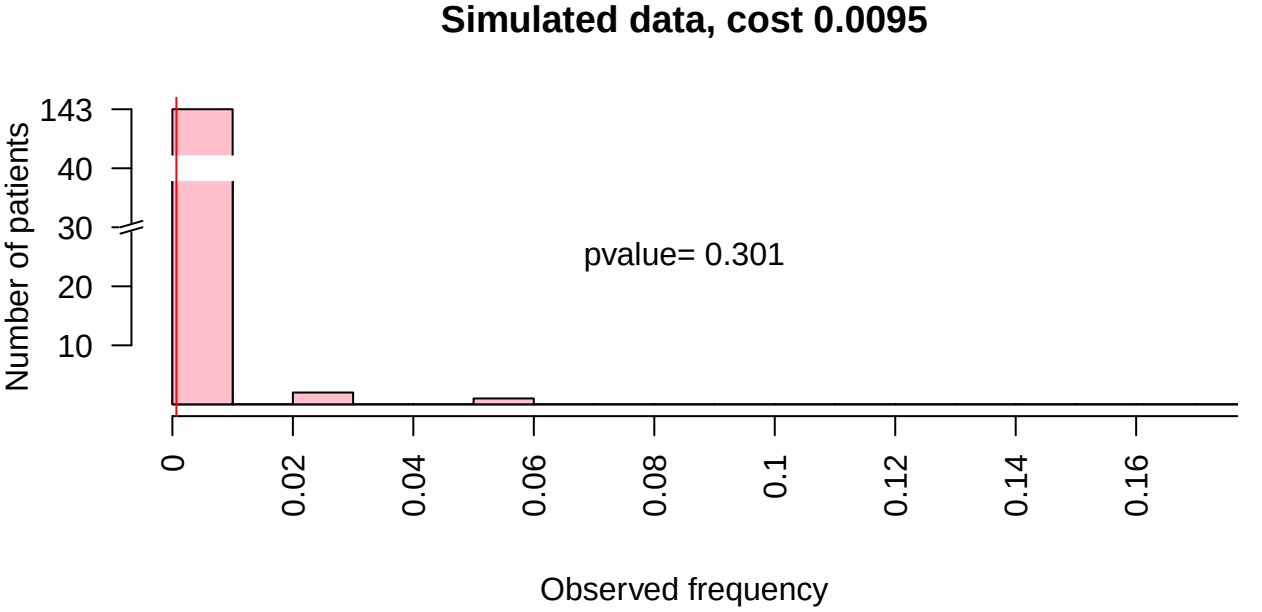

Single−SFS, site 349
Number of patients
156
40
30
20
10
0
Observed frequency

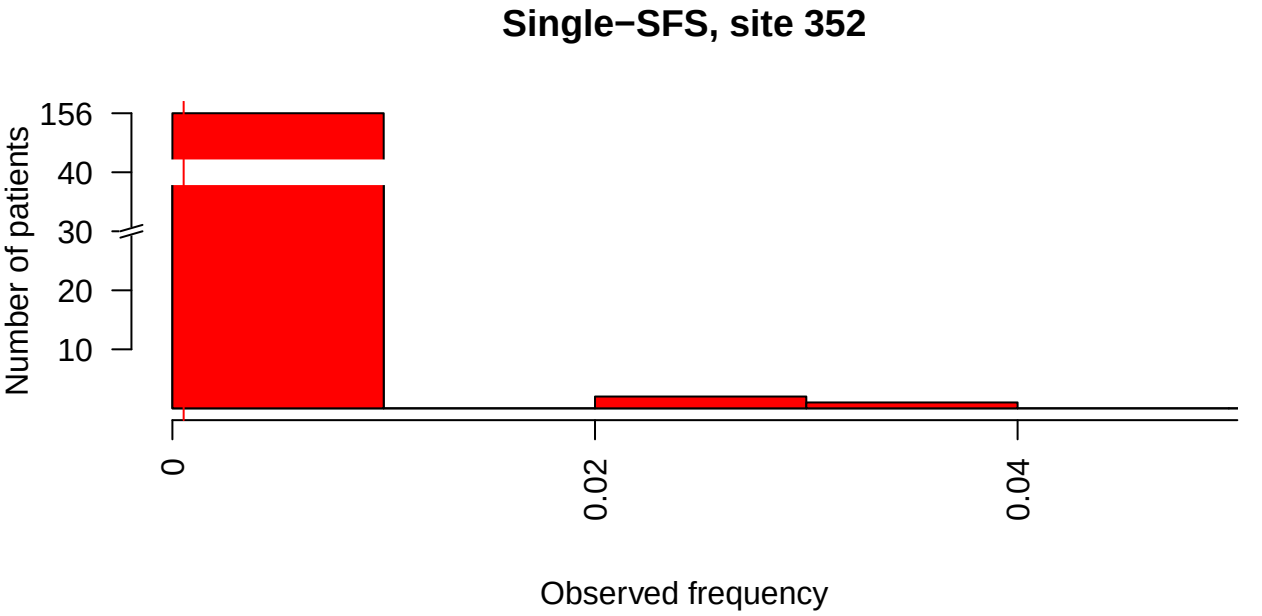

Simulated data, cost 1
Number of patients
156
40
30
20
10
0
pvalue= NaN
Observed frequency

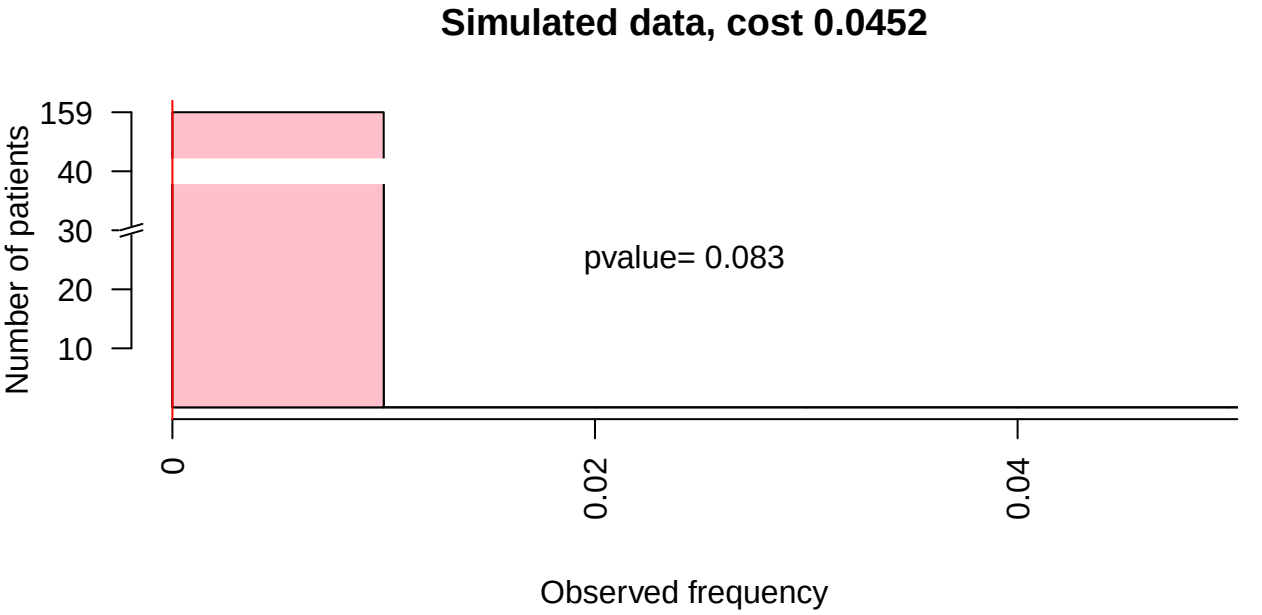

Single−SFS, site 350
Number of patients
155
40
30
20
10
0
0.02
0.04
Observed frequency

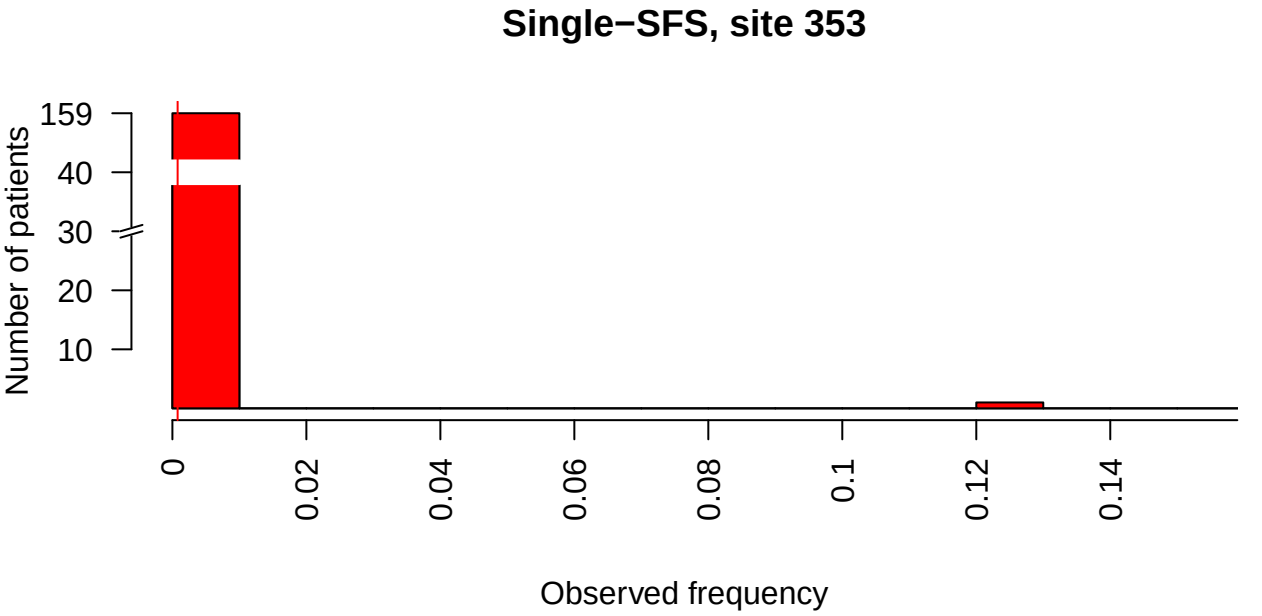

Simulated data, cost 0.2308
Number of patients
154
40
30
20
10
pvalue= 0.565
0
0.02
0.04
Observed frequency

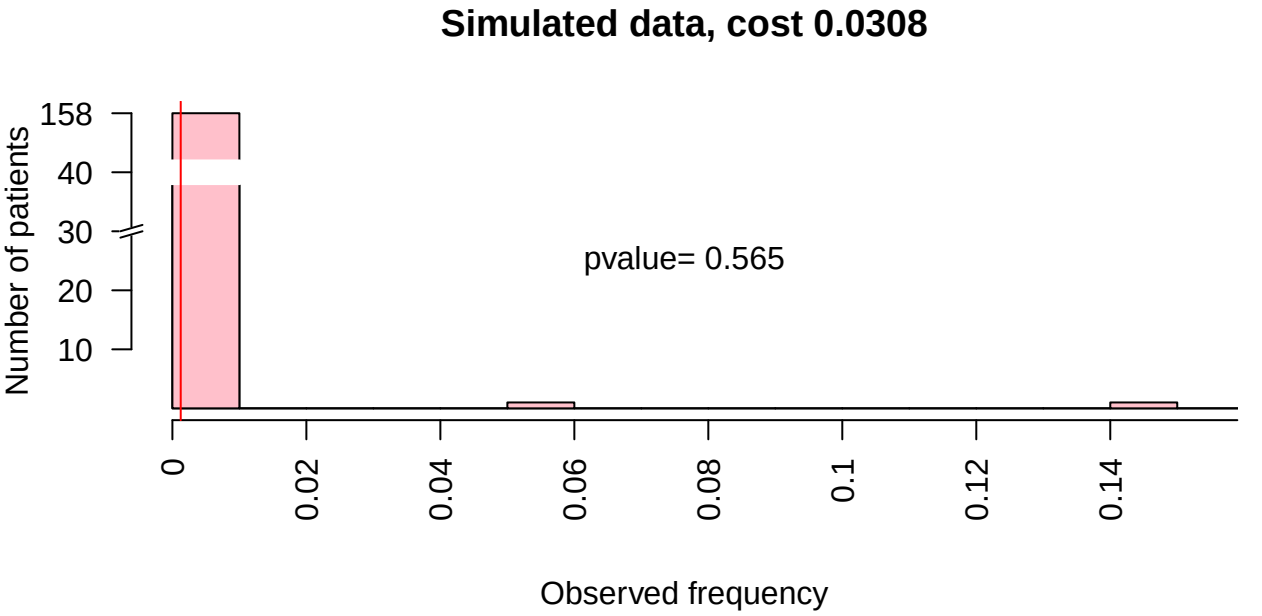

Single−SFS, site 351
Number of patients
140
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
Observed frequency

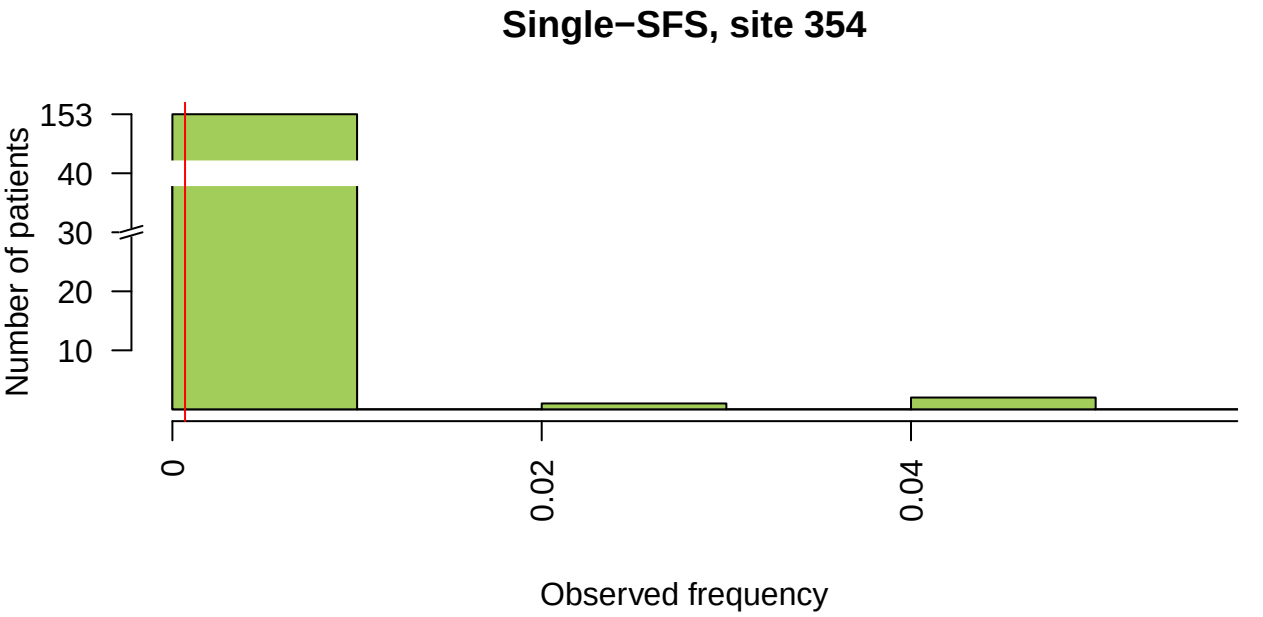

Simulated data, cost 0.0095
Number of patients
143
40
30
20
10
pvalue= 0.301
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
Observed frequency

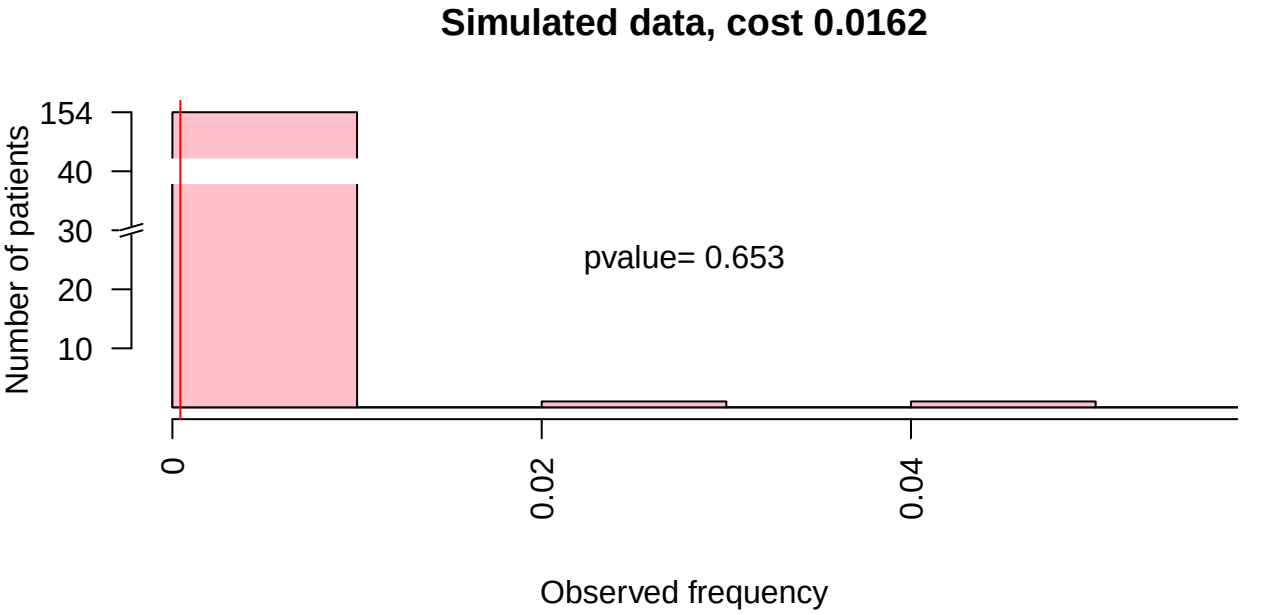

Single−SFS, site 352
Number of patients
156
40
30
20
10
0
0.02
0.04
Observed frequency

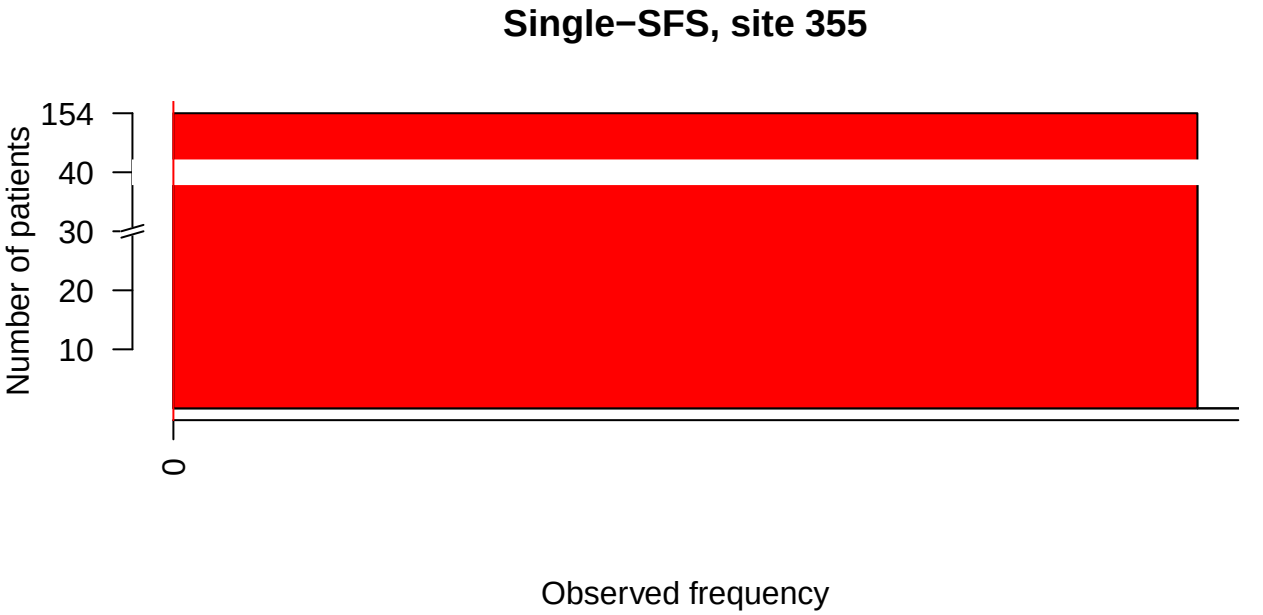

Simulated data, cost 0.0452
Number of patients
159
40
30
20
10
pvalue= 0.083
0
0.02
0.04
Observed frequency

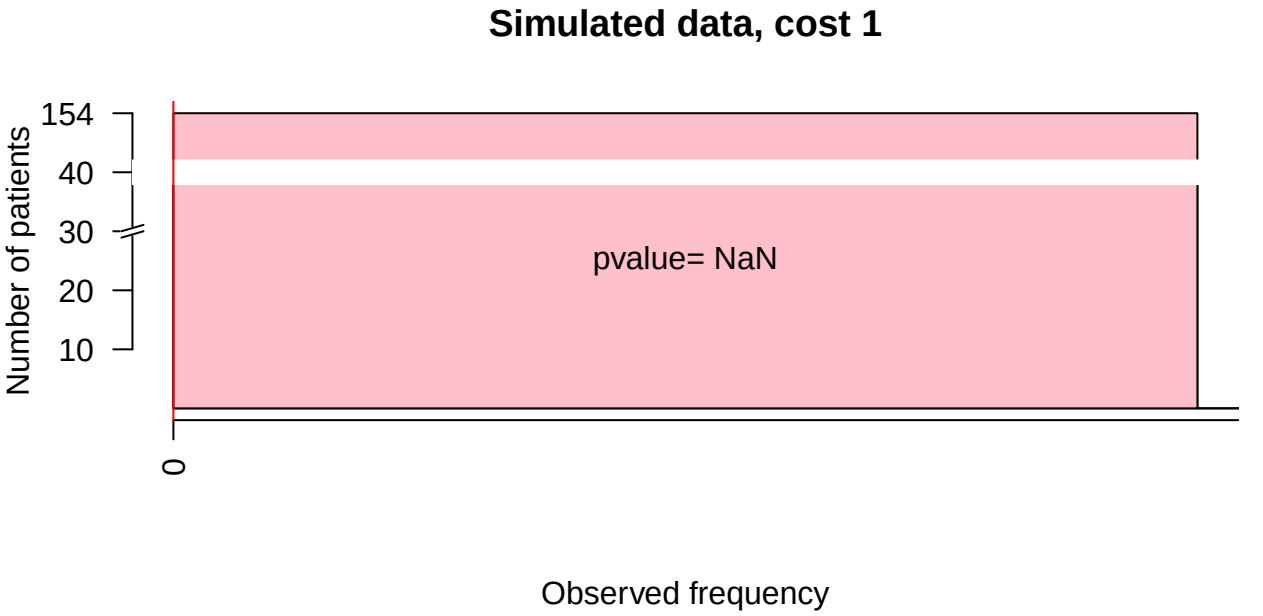

Single−SFS, site 353
Number of patients
159
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
Observed frequency

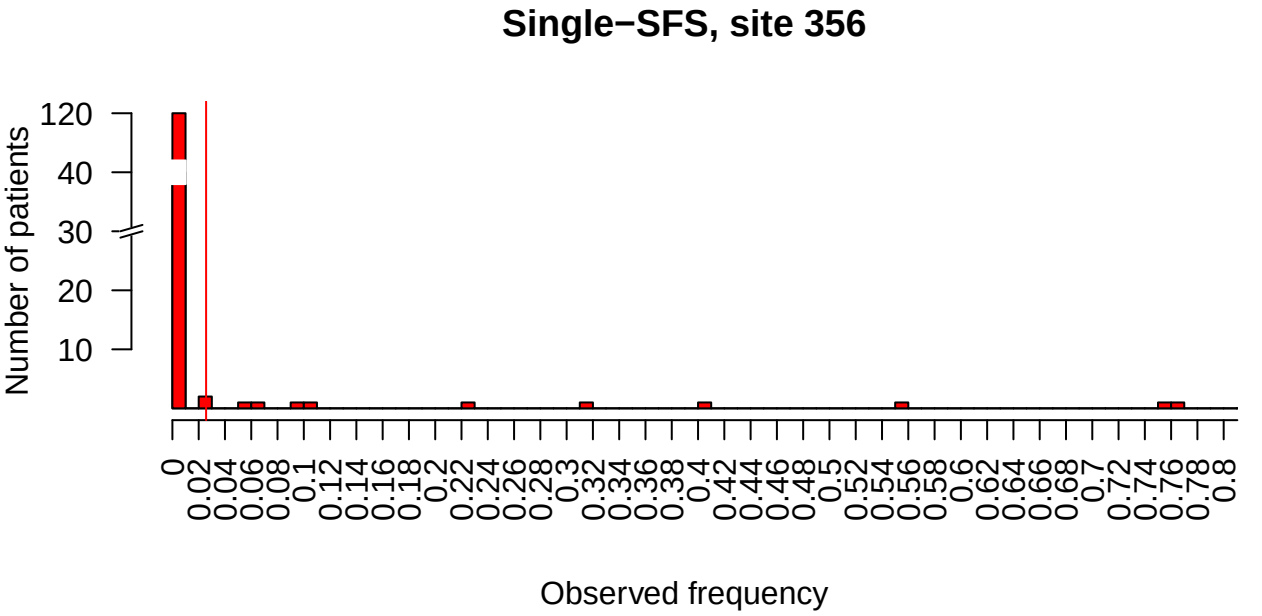

Simulated data, cost 0.0308
Number of patients
158
40
30
20
10
pvalue= 0.565
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
Observed frequency

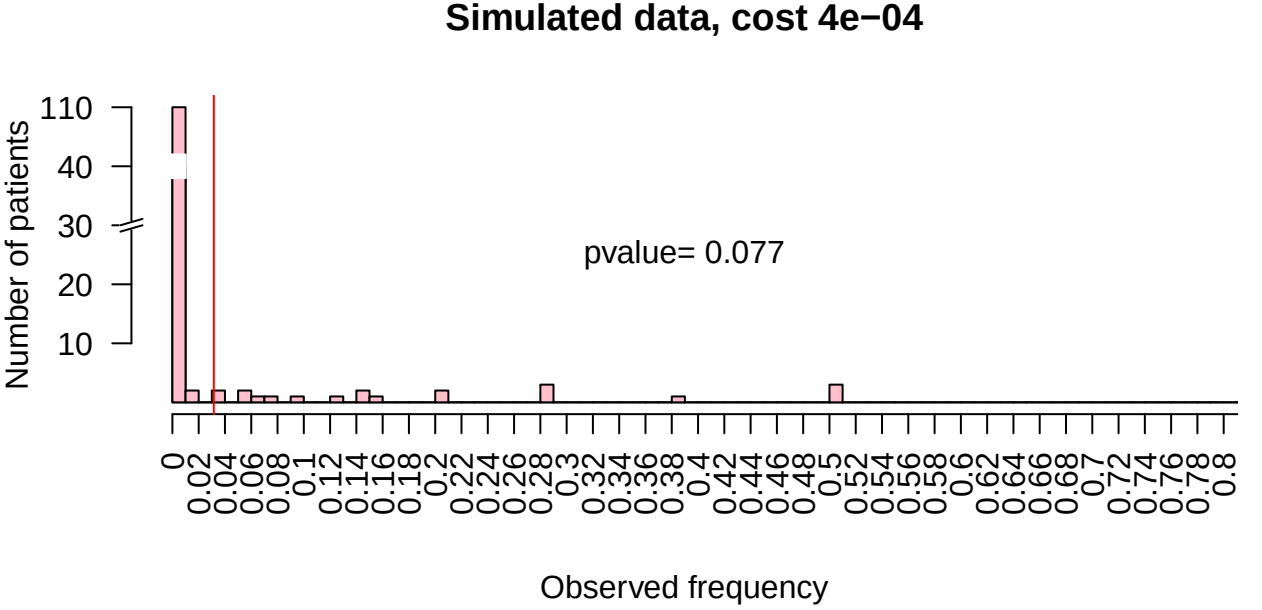

Single−SFS, site 354
Number of patients
153
40
30
20
10
0
0.02
0.04
Observed frequency

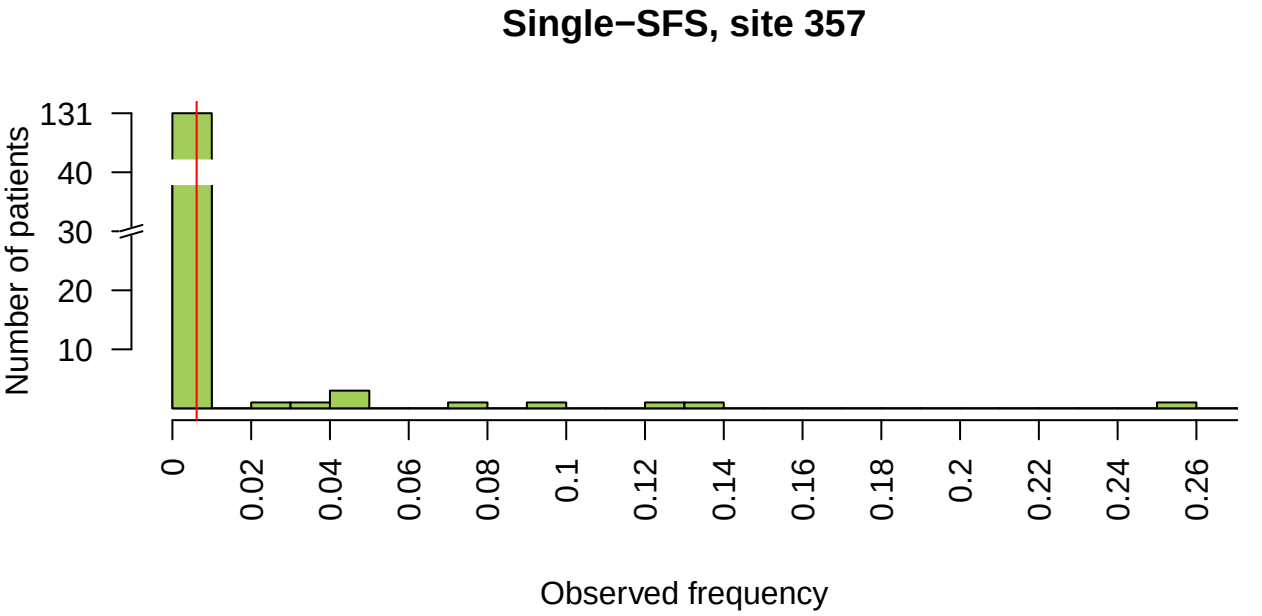

Simulated data, cost 0.0162
Number of patients
154
40
30
20
10
pvalue= 0.653
0
0.02
0.04
Observed frequency

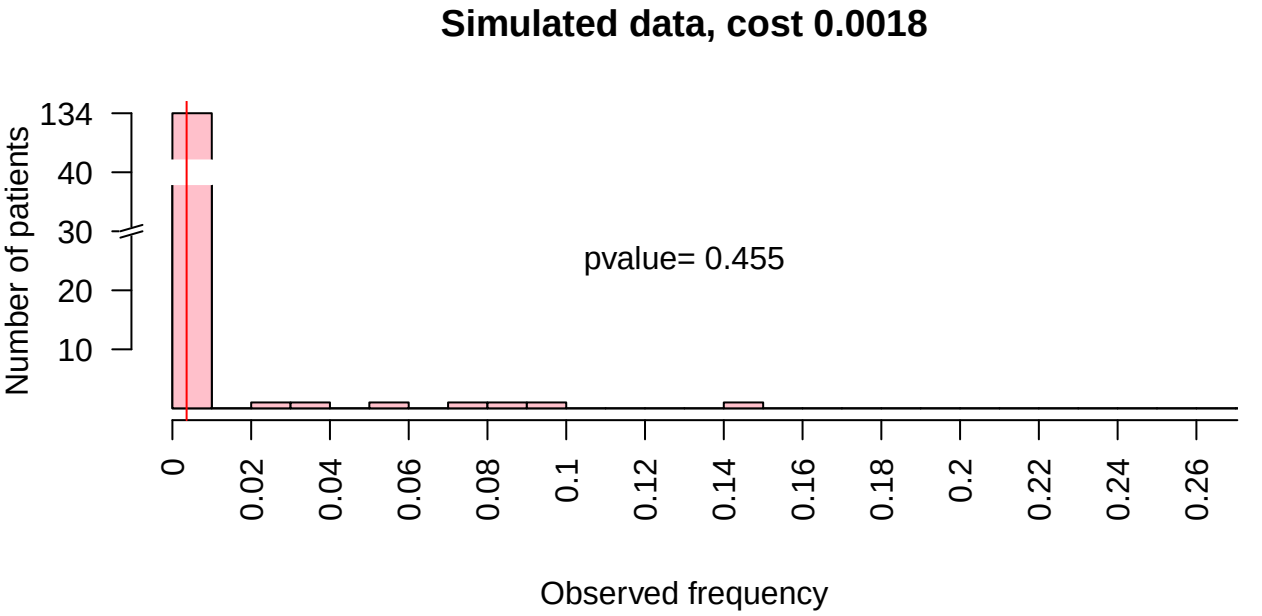

Single−SFS, site 355
Number of patients
154
40
30
20
10
0
Observed frequency

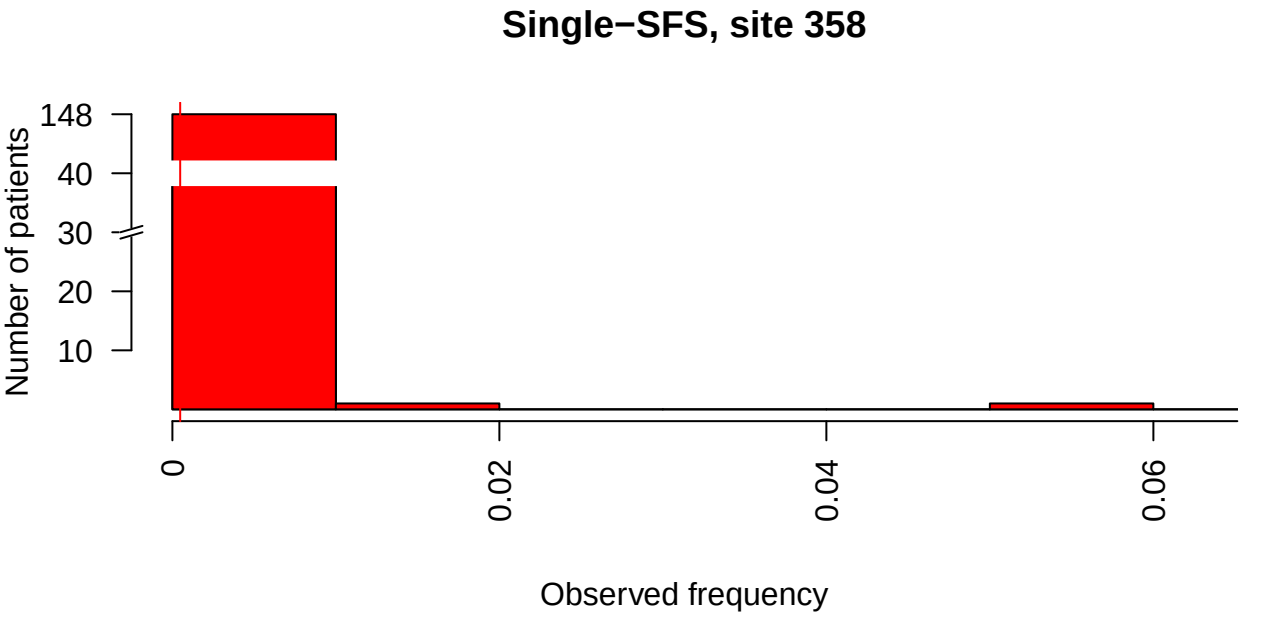

Simulated data, cost 1
Number of patients
154
40
30
20
10
0
pvalue= NaN
Observed frequency

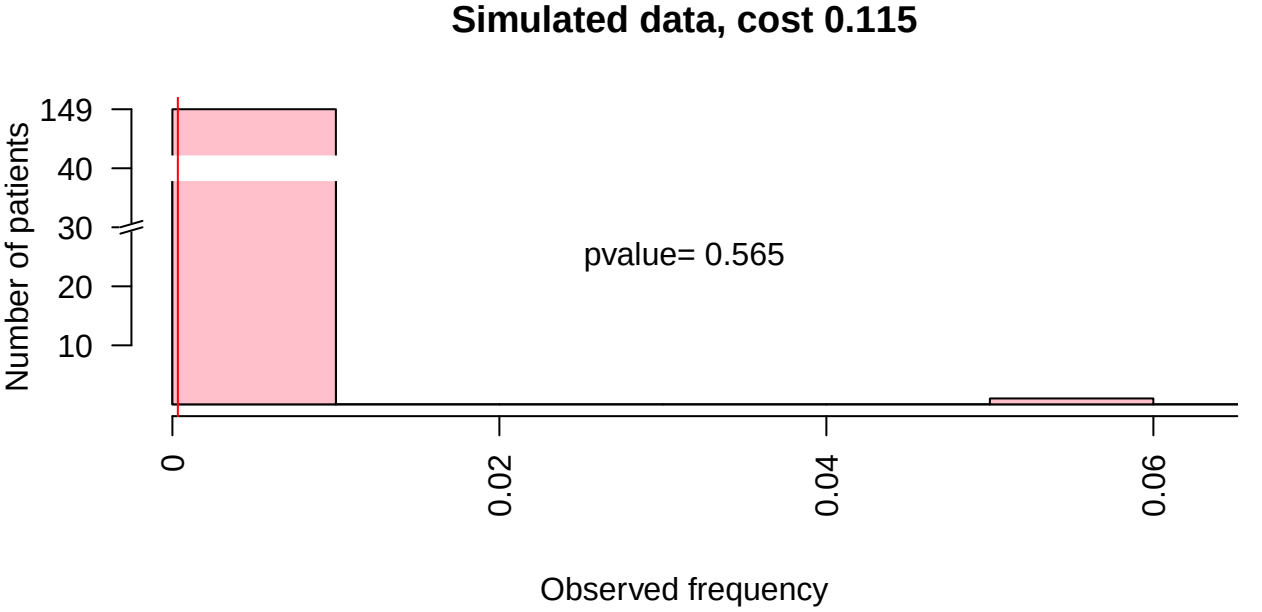

Single−SFS, site 356
Number of patients
120
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
0.24
0.26
0.28
0.3
0.32
0.34
0.36
0.38
0.4
0.42
0.44
0.46
0.48
0.5
0.52
0.54
0.56
0.58
0.6
0.62
0.64
0.66
0.68
0.7
0.72
0.74
0.76
0.78
0.8
Observed frequency

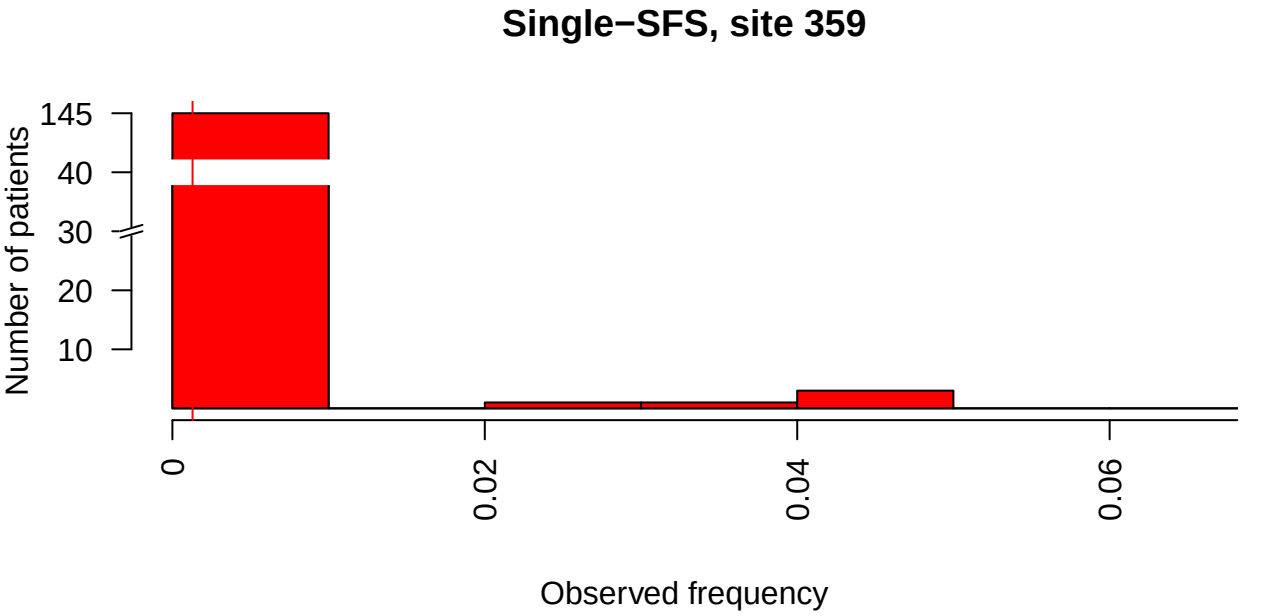

Simulated data, cost 4e−04
Number of patients
110
40
30
20
10
pvalue= 0.077
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
0.24
0.26
0.28
0.3
0.32
0.34
0.36
0.38
0.4
0.42
0.44
0.46
0.48
0.5
0.52
0.54
0.56
0.58
0.6
0.62
0.64
0.66
0.68
0.7
0.72
0.74
0.76
0.78
0.8
Observed frequency

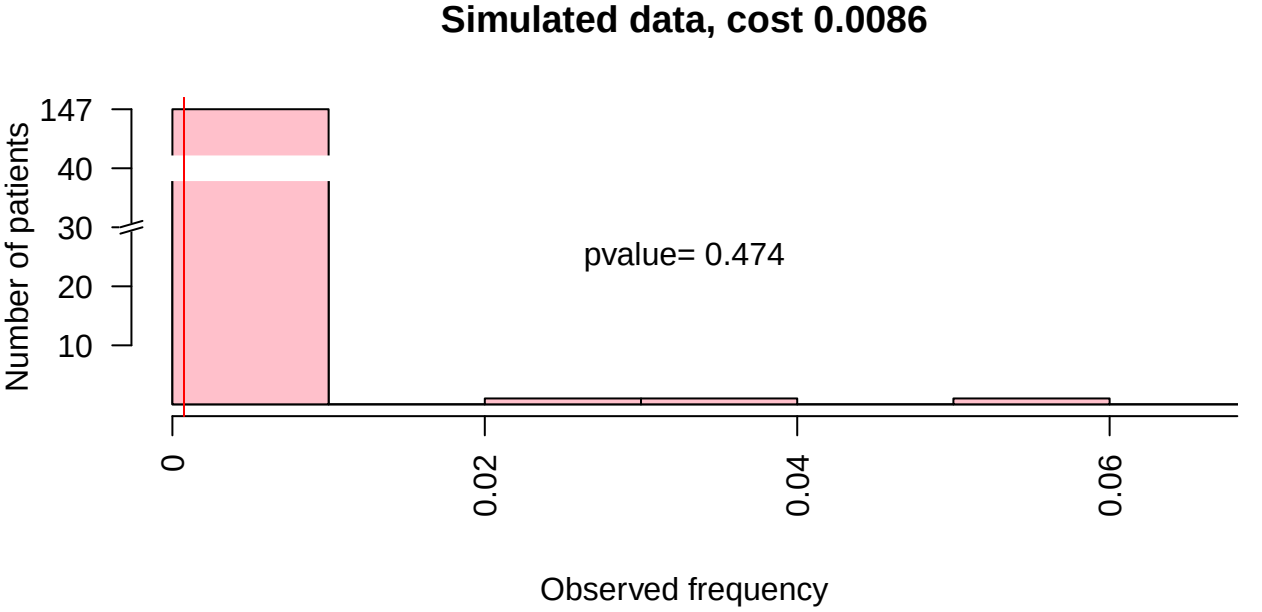

Single−SFS, site 357
Number of patients
131
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
0.24
0.26
Observed frequency

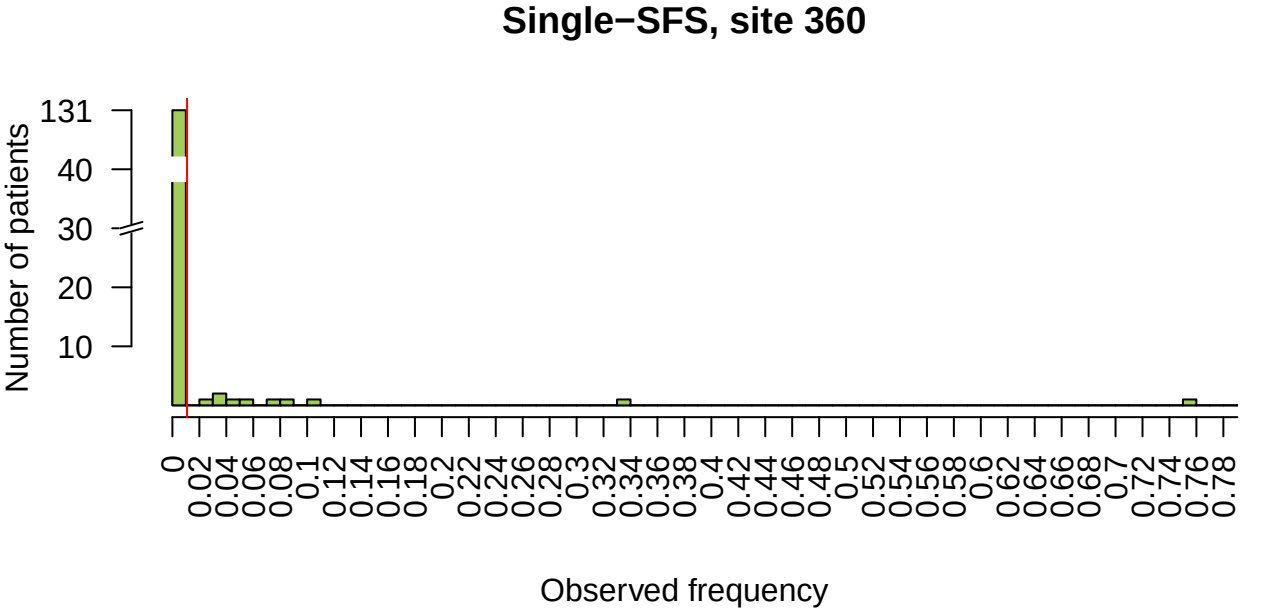

Simulated data, cost 0.0018
Number of patients
134
40
30
20
10
pvalue= 0.455
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
0.24
0.26
Observed frequency

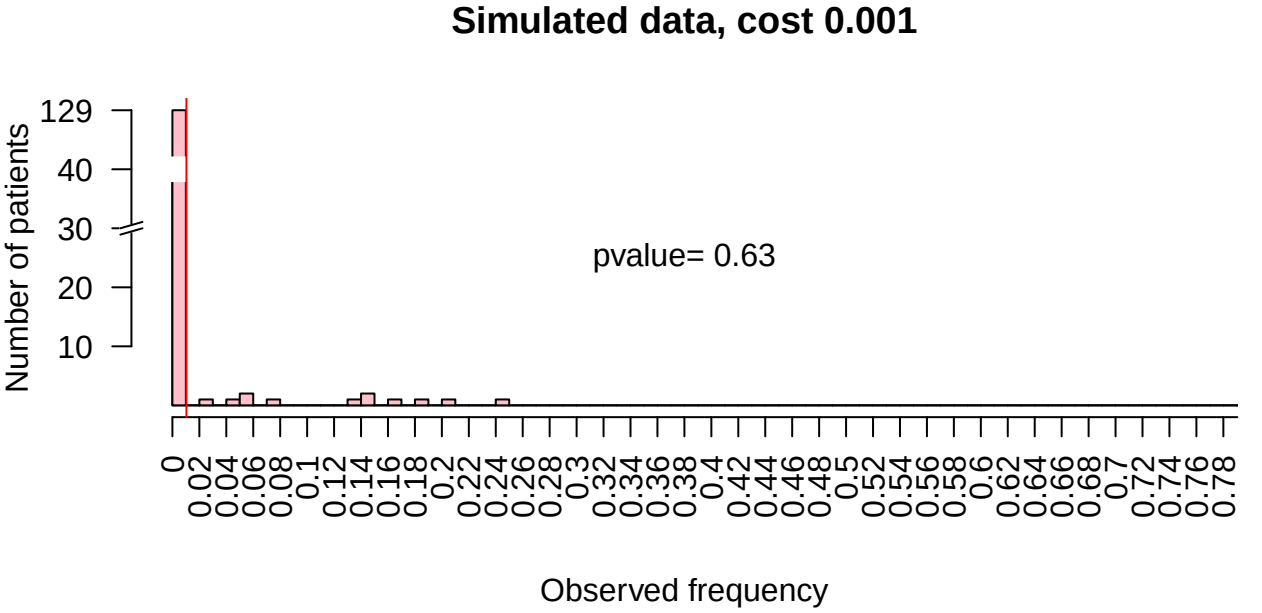

Single−SFS, site 358
Number of patients
148
40
30
20
10
0
0.02
0.04
0.06
Observed frequency

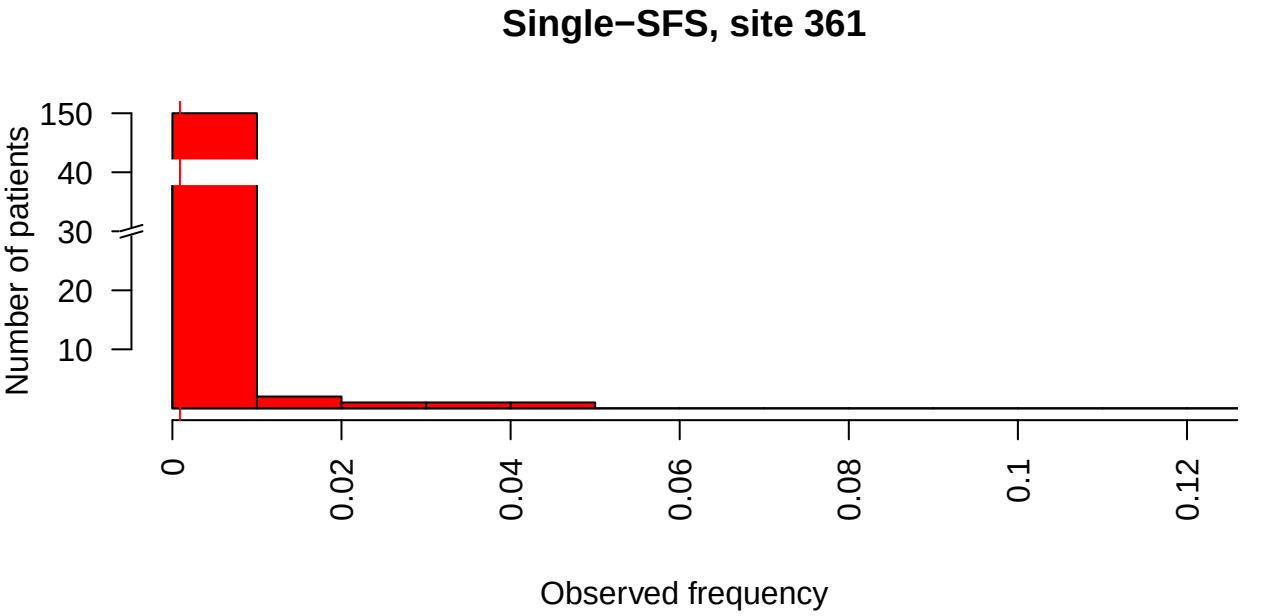

Simulated data, cost 0.115
Number of patients
149
40
30
20
10
pvalue= 0.565
0
0.02
0.04
0.06
Observed frequency

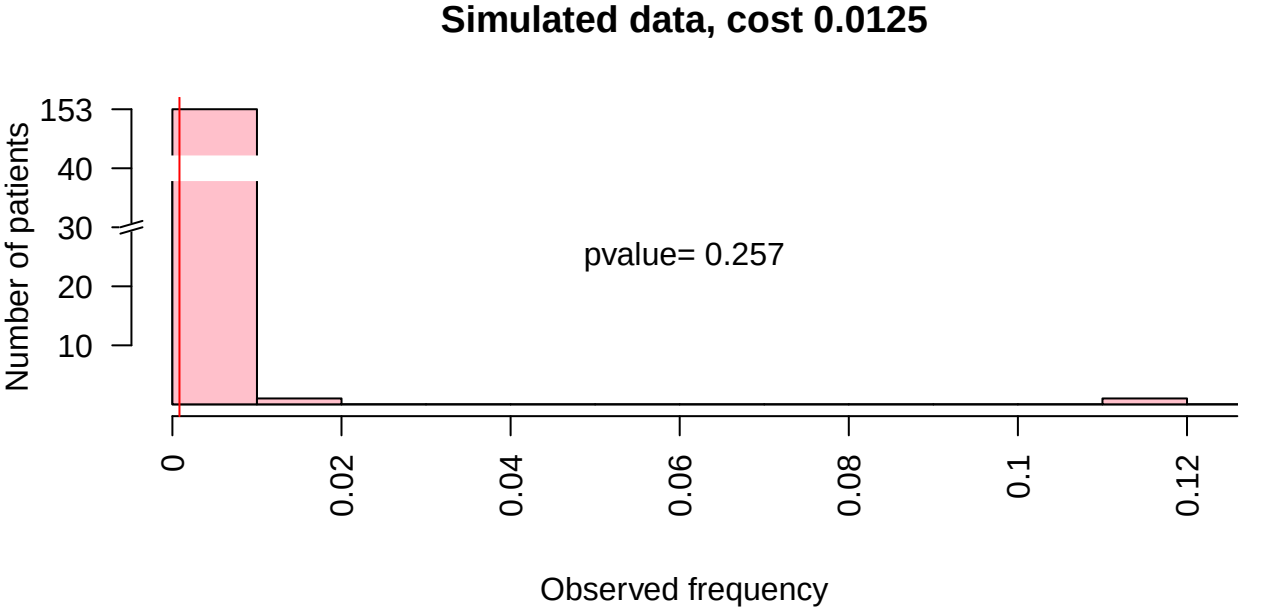

Single−SFS, site 359
Number of patients
145
40
30
20
10
0
0.02
0.04
0.06
Observed frequency

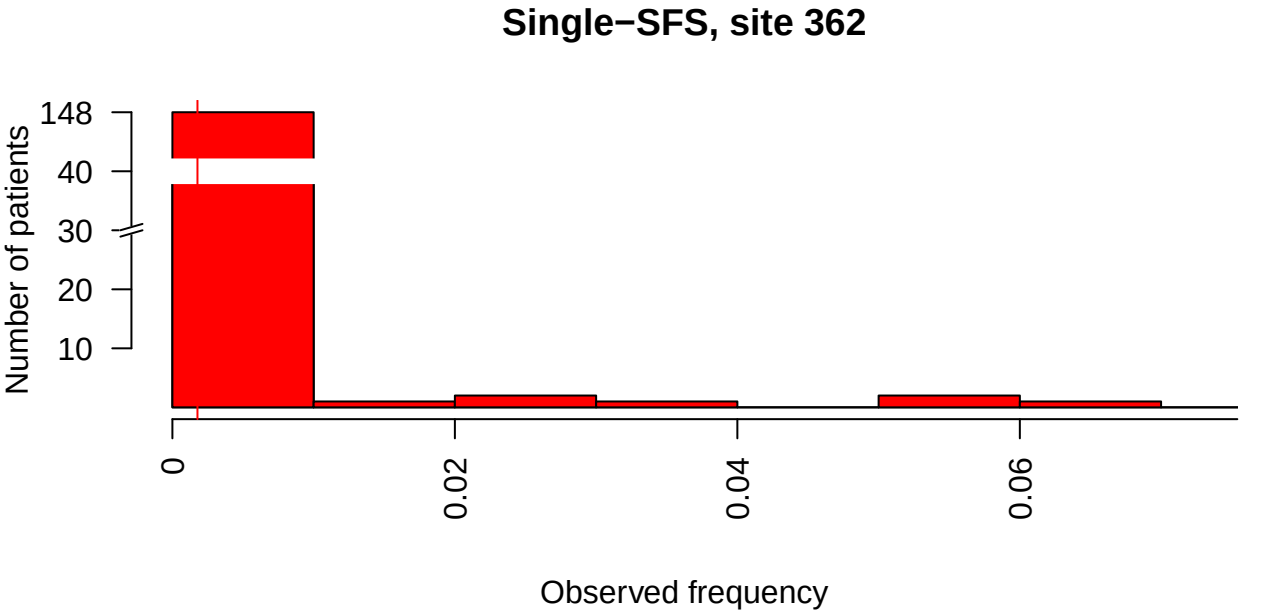

Simulated data, cost 0.0086
Number of patients
147
40
30
20
10
pvalue= 0.474
0
0.02
0.04
0.06
Observed frequency

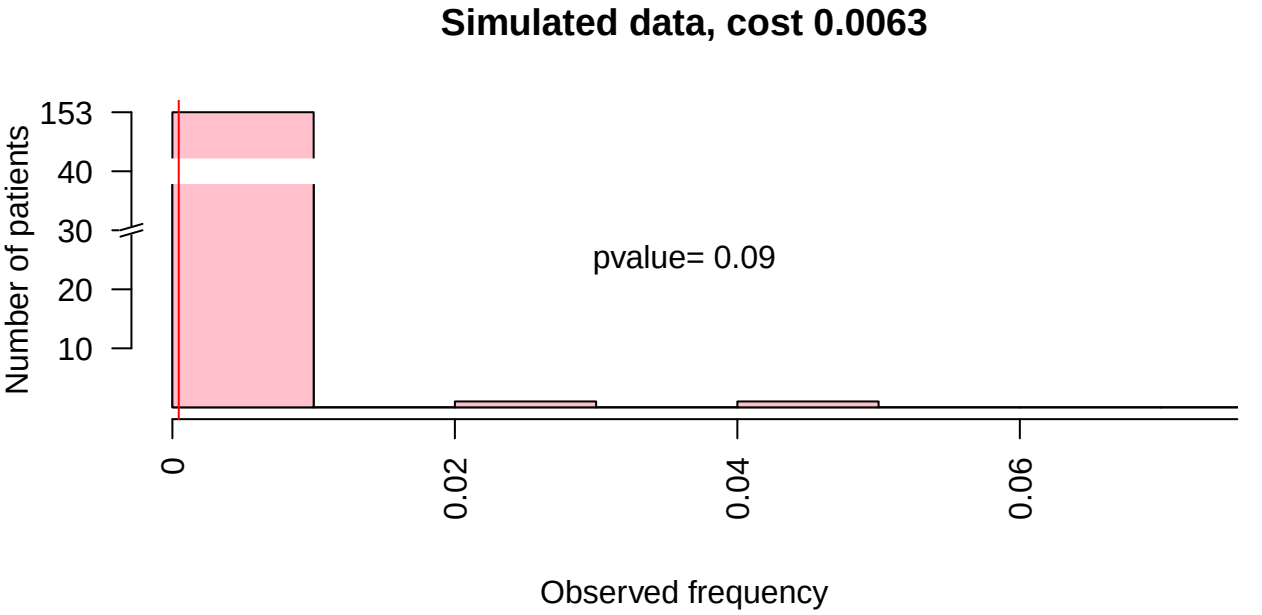

Single−SFS, site 360
Number of patients
131
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
0.24
0.26
0.28
0.3
0.32
0.34
0.36
0.38
0.4
0.42
0.44
0.46
0.48
0.5
0.52
0.54
0.56
0.58
0.6
0.62
0.64
0.66
0.68
0.7
0.72
0.74
0.76
0.78
Observed frequency

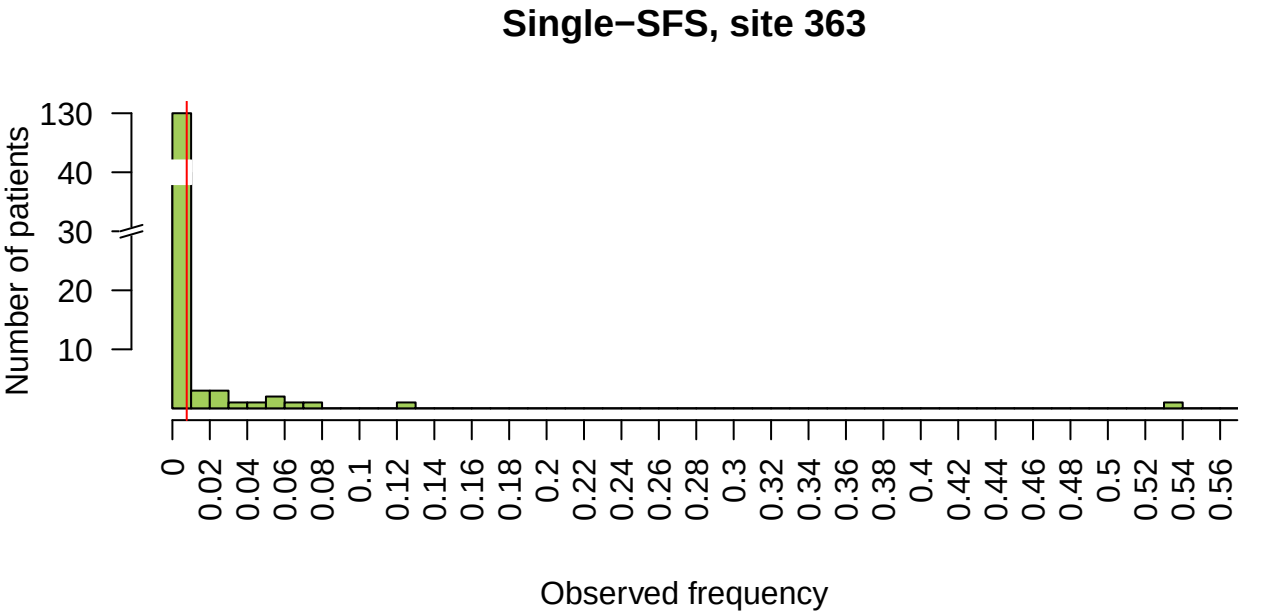

Simulated data, cost 0.001
Number of patients
129
40
30
20
10
pvalue= 0.63
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
0.24
0.26
0.28
0.3
0.32
0.34
0.36
0.38
0.4
0.42
0.44
0.46
0.48
0.5
0.52
0.54
0.56
0.58
0.6
0.62
0.64
0.66
0.68
0.7
0.72
0.74
0.76
0.78
Observed frequency

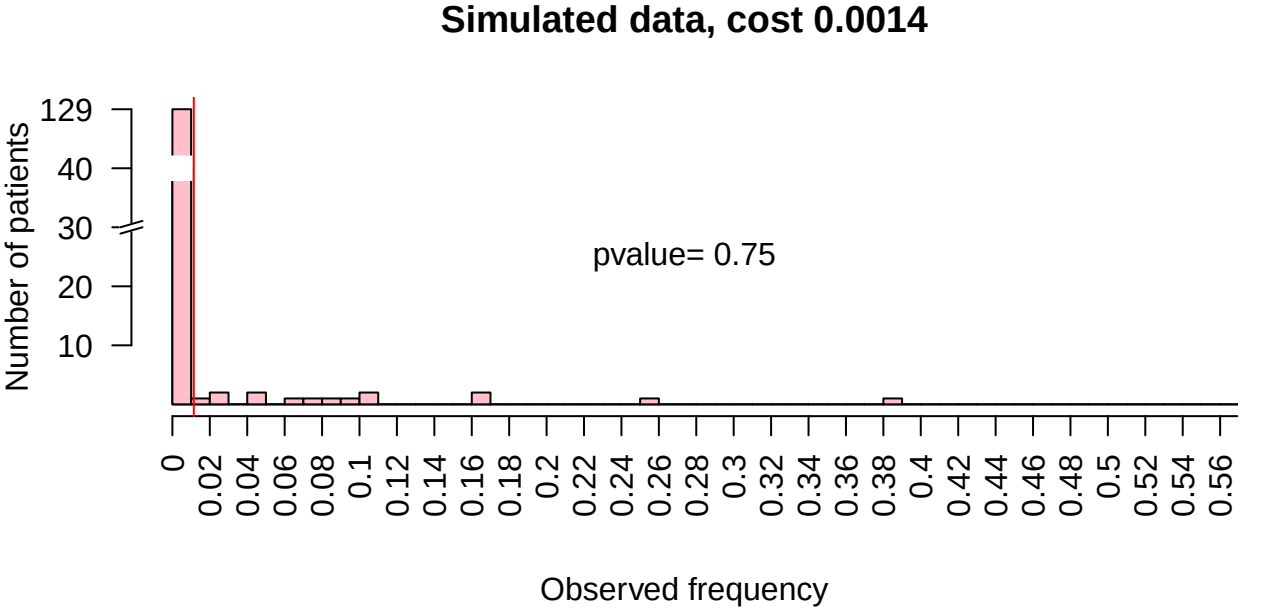

Single−SFS, site 361
Number of patients
150
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
Observed frequency

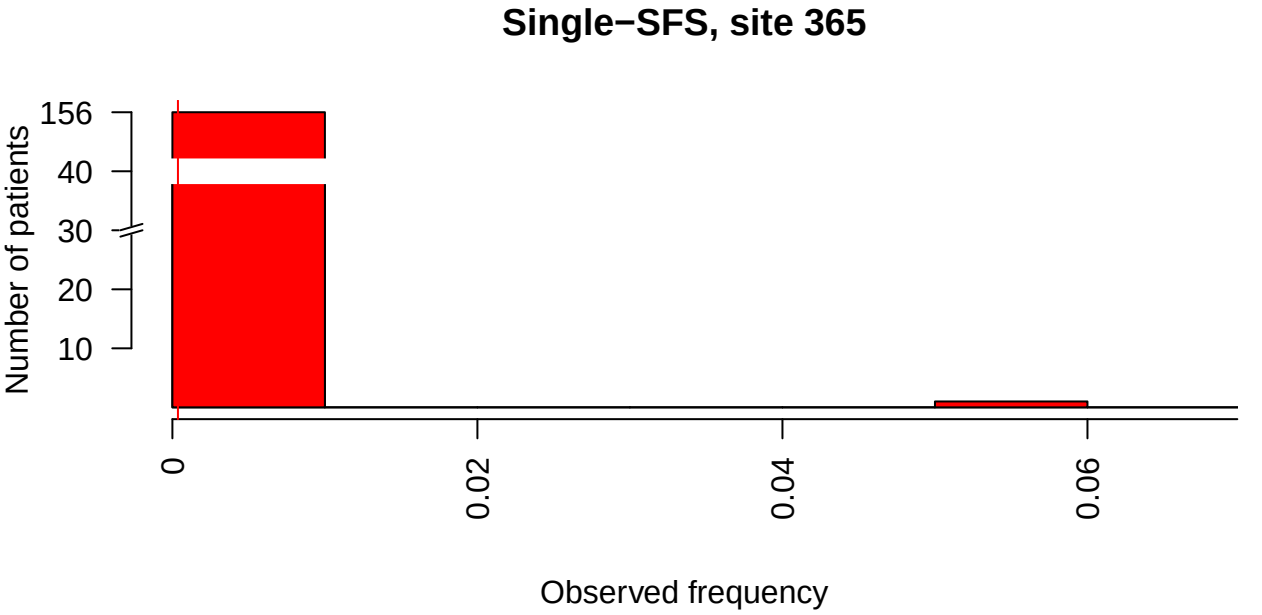

Simulated data, cost 0.0125
Number of patients
153
40
30
20
10
pvalue= 0.257
0
0.02
0.04
0.06
0.08
0.1
0.12
Observed frequency

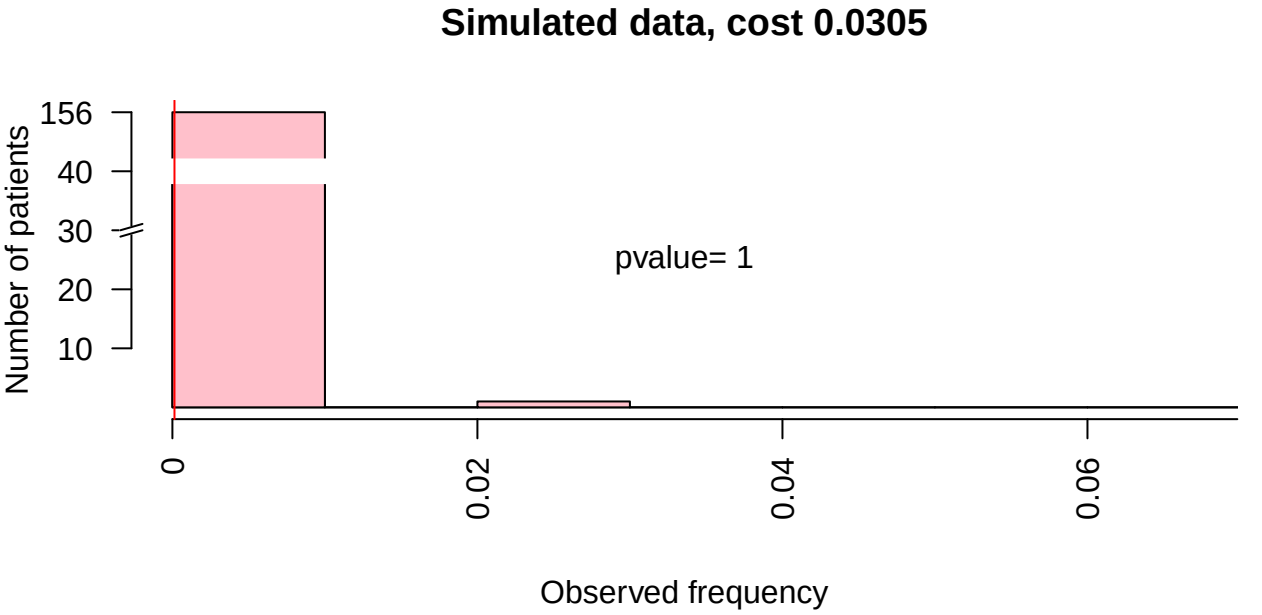

Single−SFS, site 362
Number of patients
148
40
30
20
10
0
0.02
0.04
0.06
Observed frequency

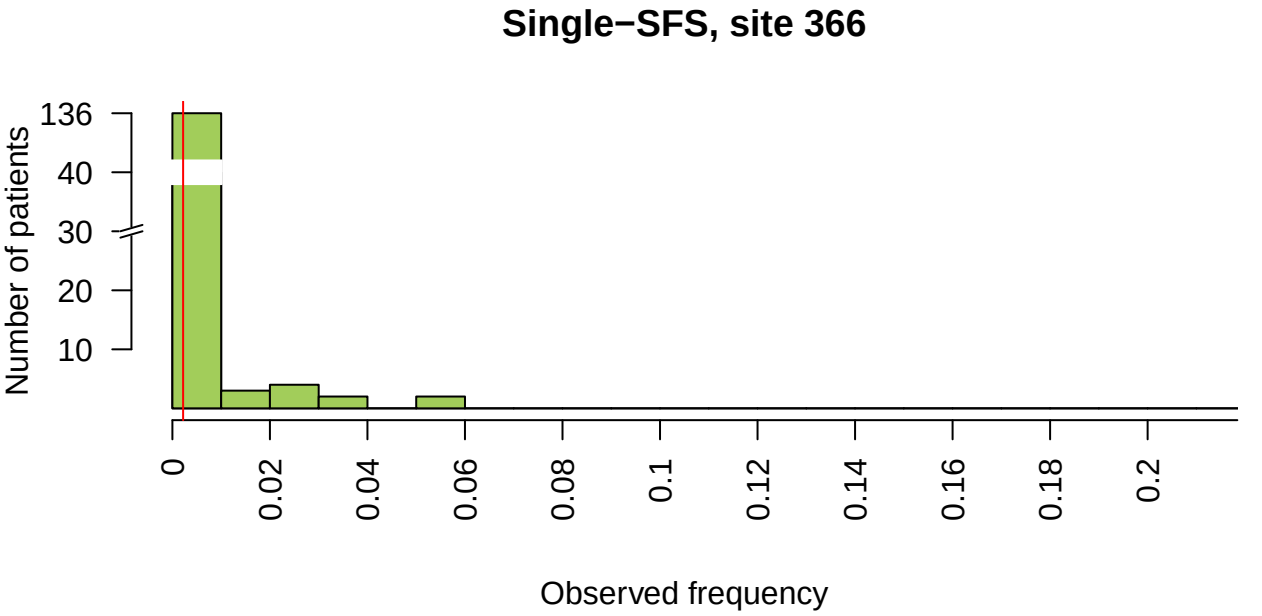

Simulated data, cost 0.0063
Number of patients
153
40
30
20
10
pvalue= 0.09
0
0.02
0.04
0.06
Observed frequency

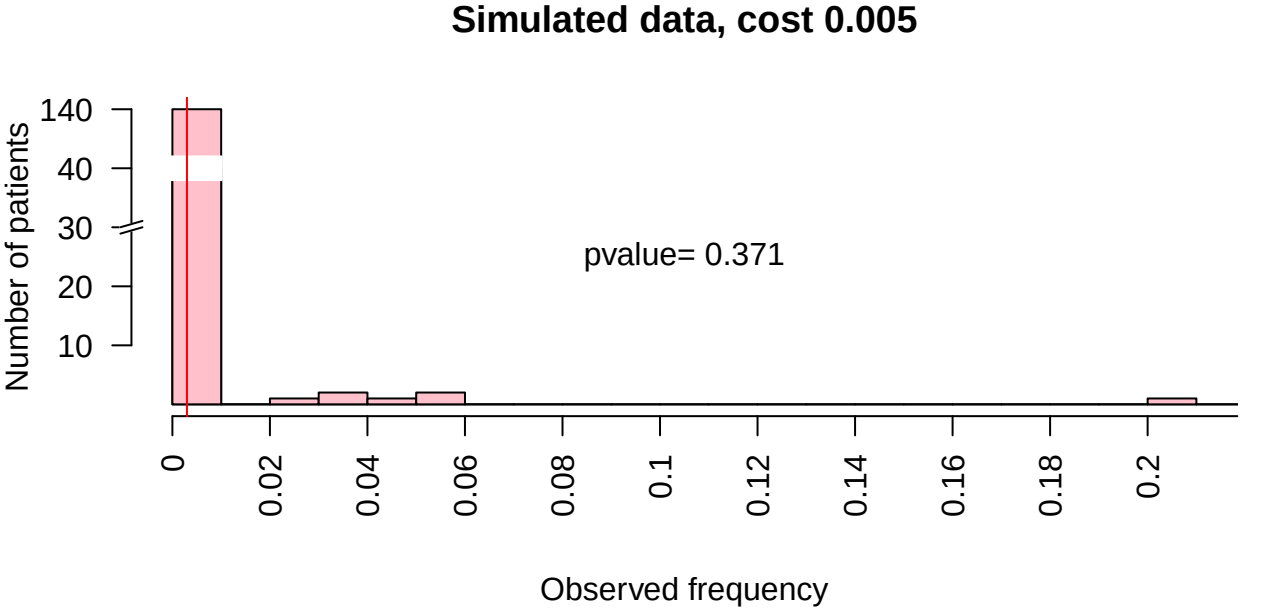

Single−SFS, site 363
Number of patients
130
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
0.24
0.26
0.28
0.3
0.32
0.34
0.36
0.38
0.4
0.42
0.44
0.46
0.48
0.5
0.52
0.54
0.56
Observed frequency

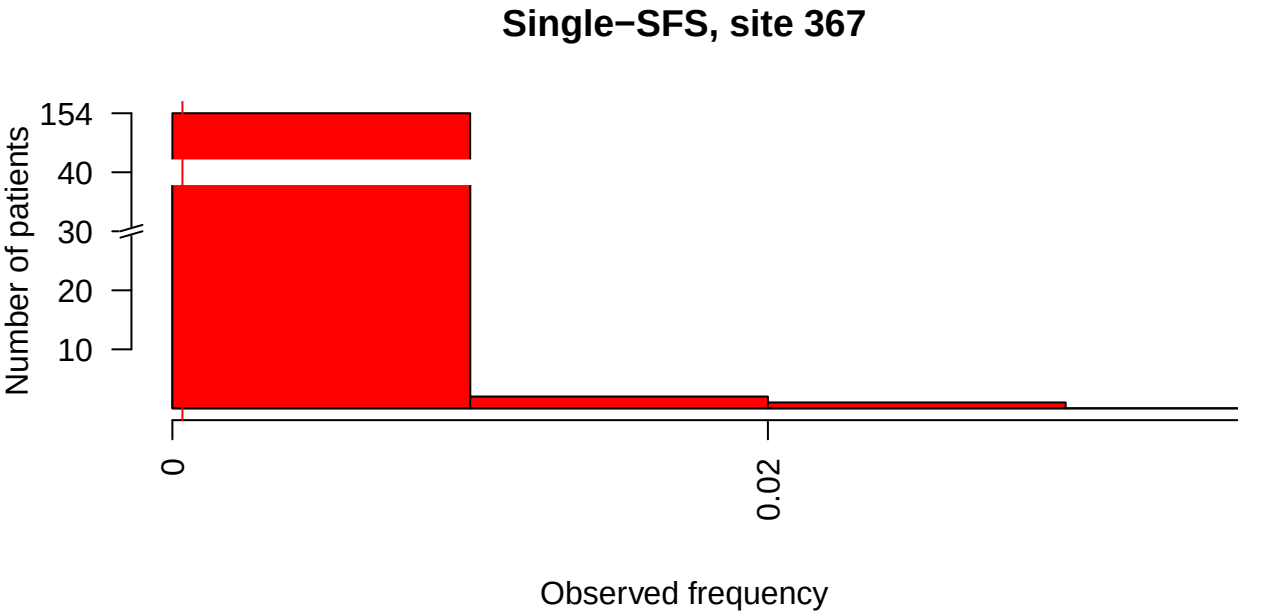

Simulated data, cost 0.0014
Number of patients
129
40
30
20
10
pvalue= 0.75
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
0.24
0.26
0.28
0.3
0.32
0.34
0.36
0.38
0.4
0.42
0.44
0.46
0.48
0.5
0.52
0.54
0.56
Observed frequency

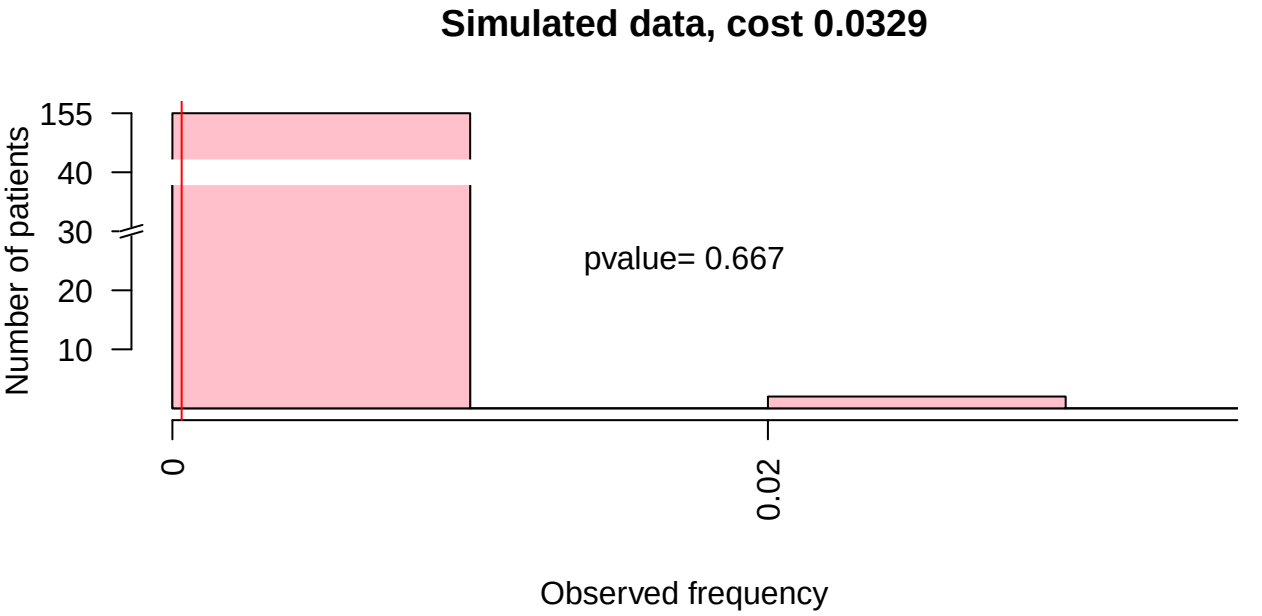

Single−SFS, site 365
Number of patients
156
40
30
20
10
0
0.02
0.04
0.06
Observed frequency

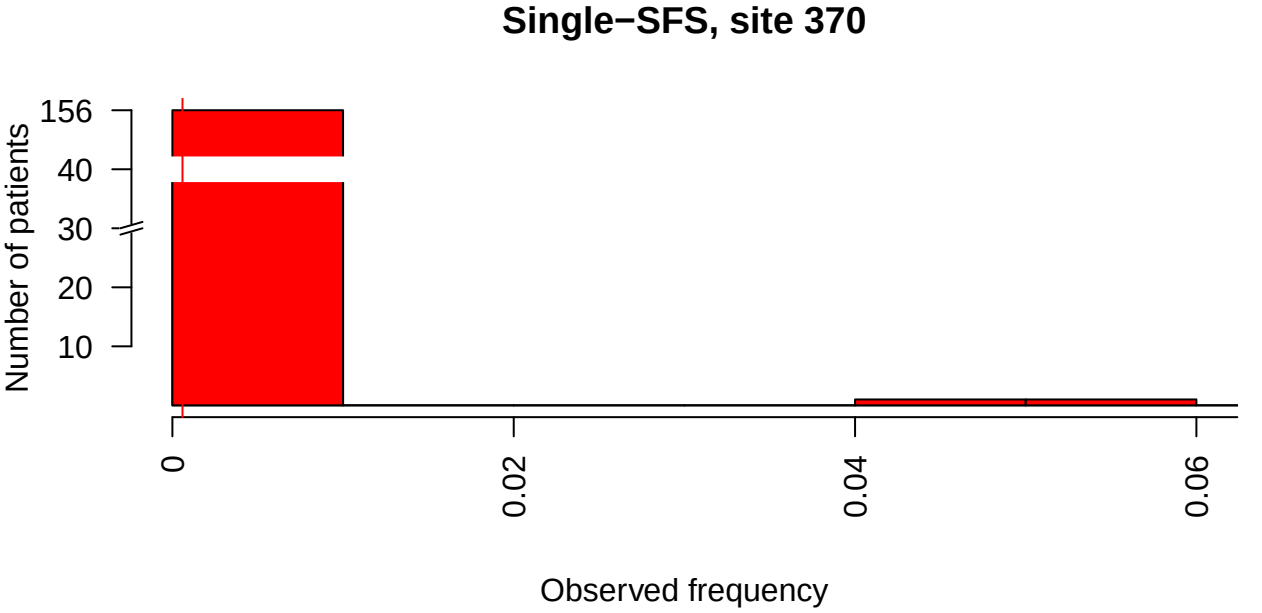

Simulated data, cost 0.0305
Number of patients
156
40
30
20
10
pvalue= 1
0
0.02
0.04
0.06
Observed frequency

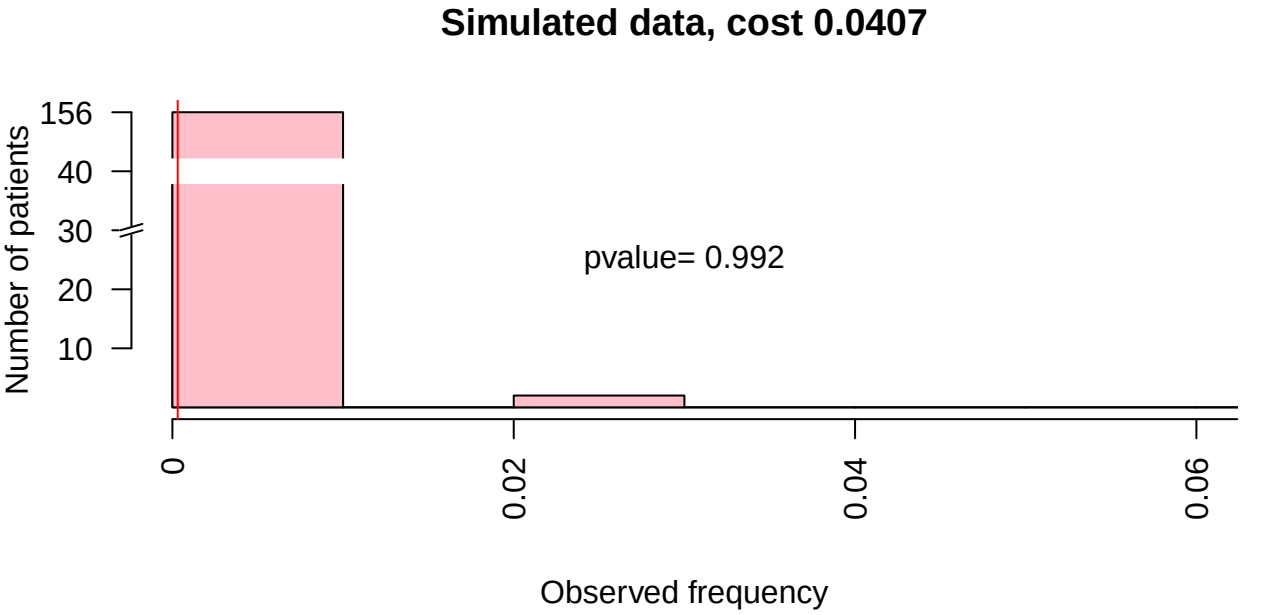

Single−SFS, site 366
Number of patients
136
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
Observed frequency

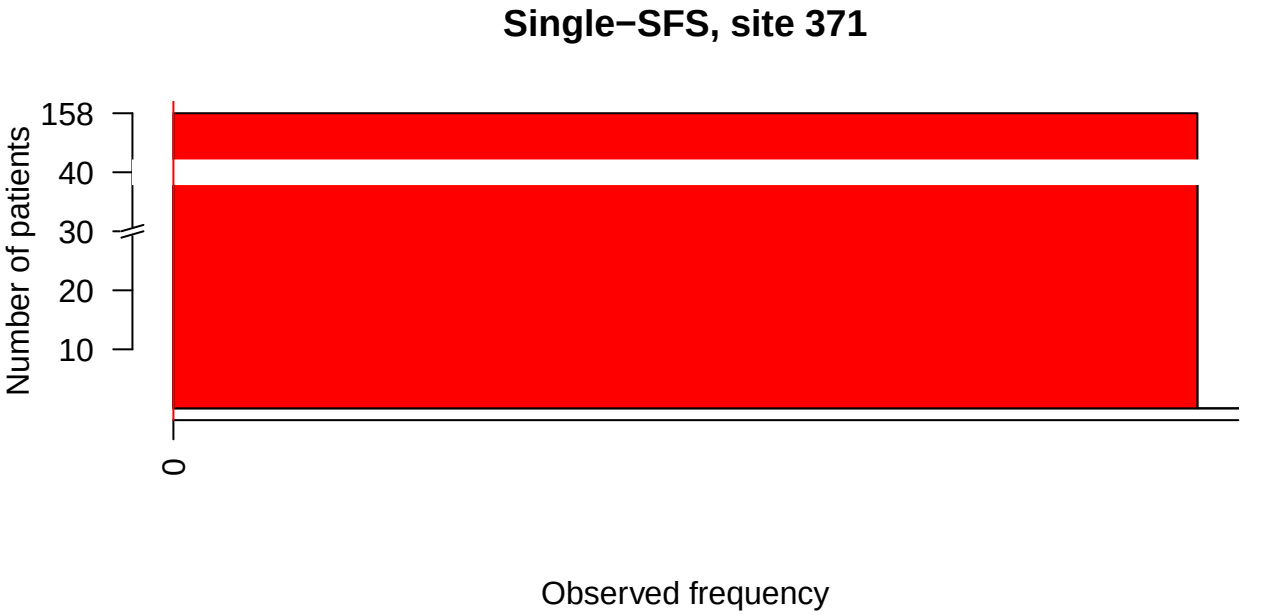

Simulated data, cost 0.005
Number of patients
140
40
30
20
10
pvalue= 0.371
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
Observed frequency

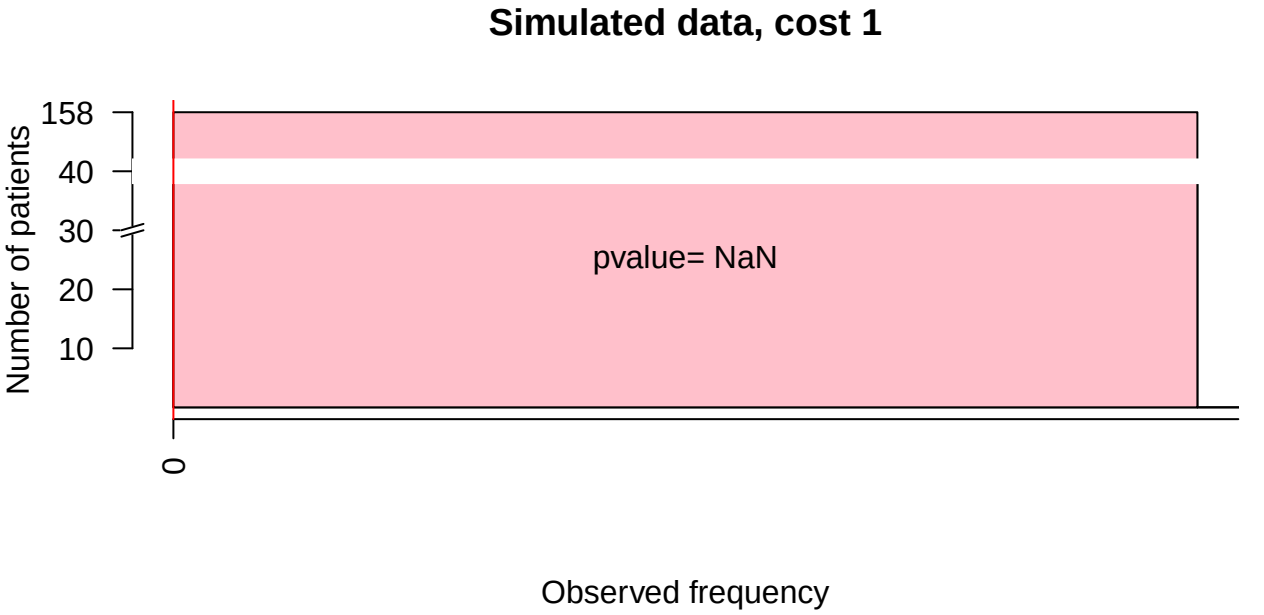

Single−SFS, site 367
Number of patients
154
40
30
20
10
0
0.02
Observed frequency

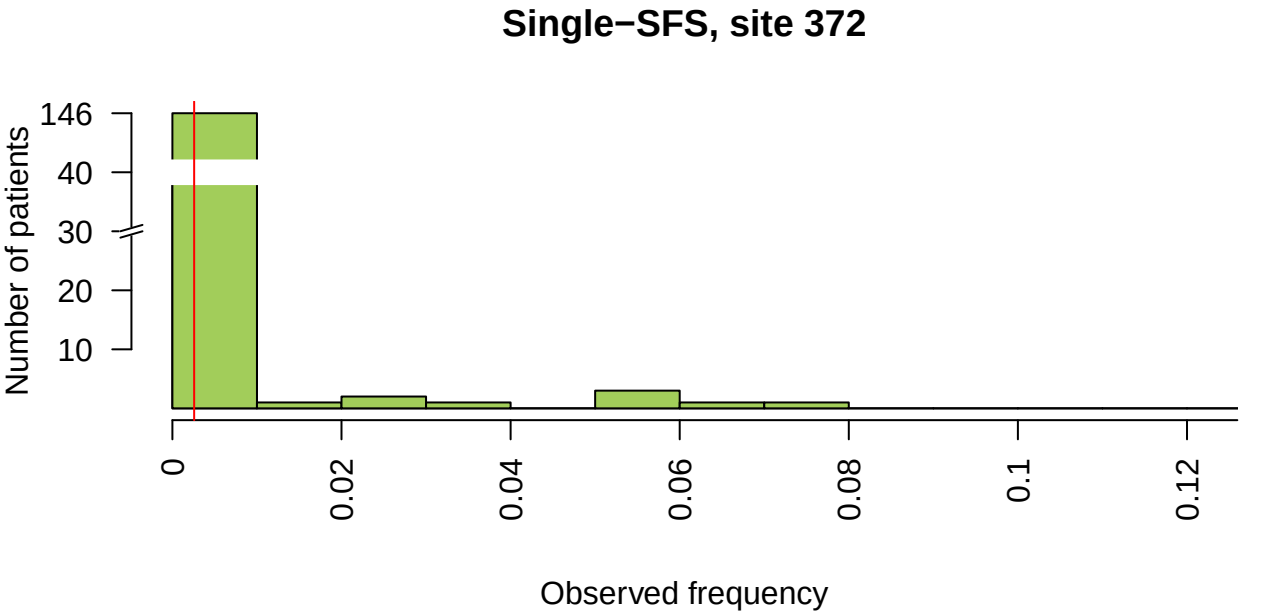

Simulated data, cost 0.0329
Number of patients
155
40
30
20
10
pvalue= 0.667
0
0.02
Observed frequency

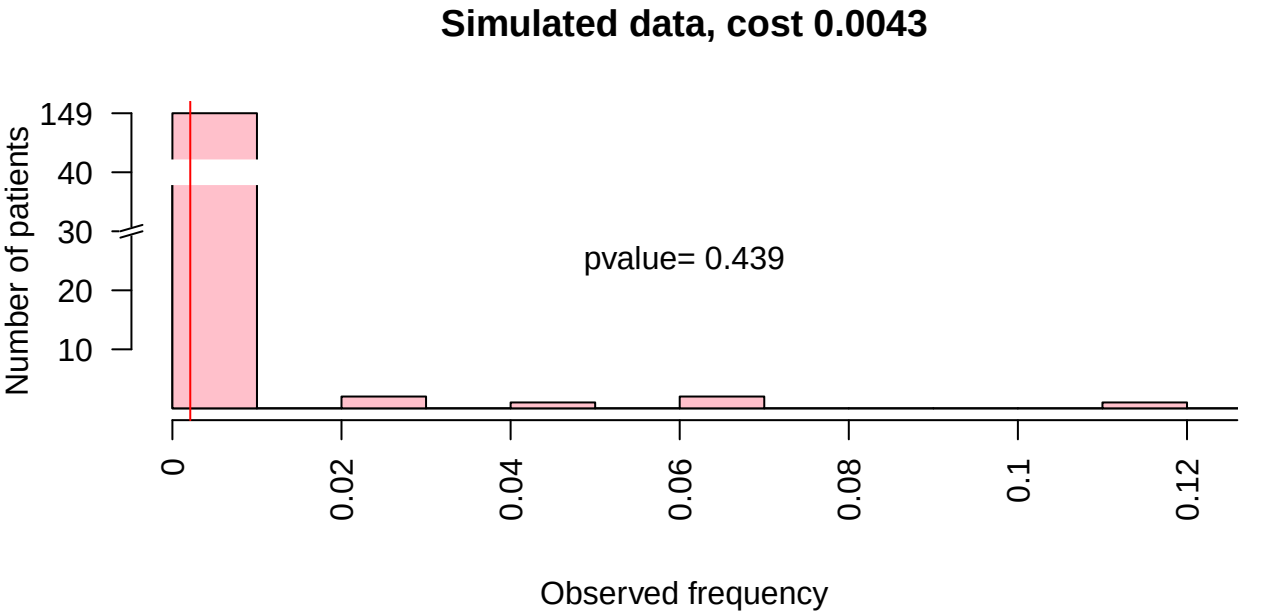

Single−SFS, site 370
Number of patients
156
40
30
20
10
0
0.02
0.04
0.06
Observed frequency

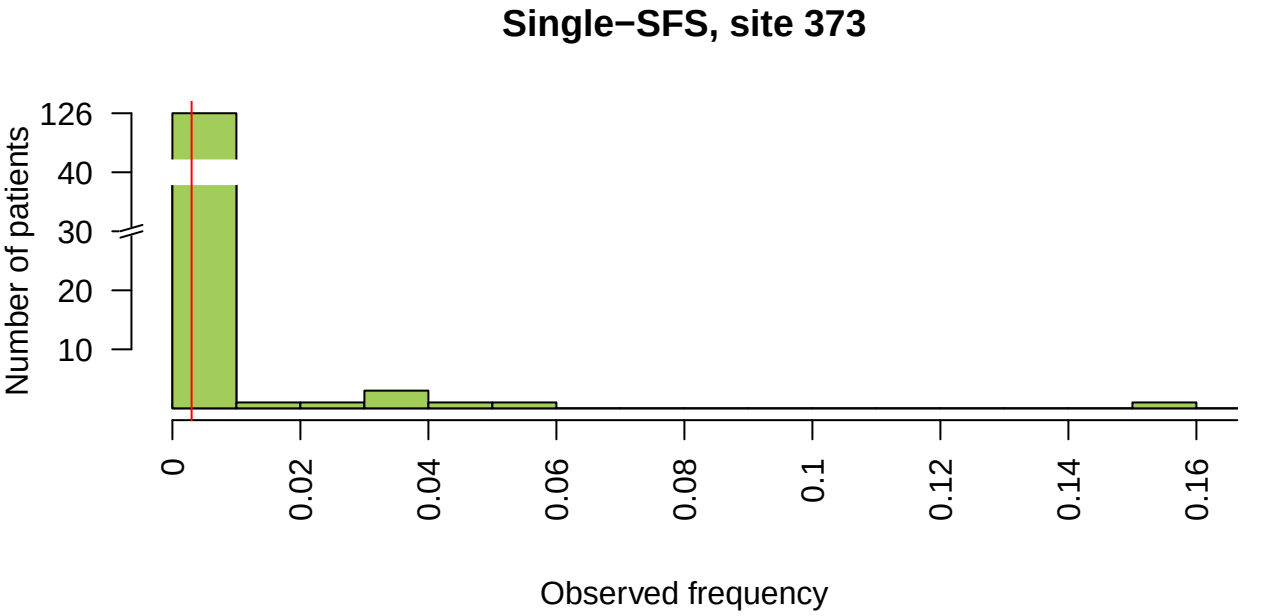

Simulated data, cost 0.0407
Number of patients
156
40
30
20
10
pvalue= 0.992
0
0.02
0.04
0.06
Observed frequency

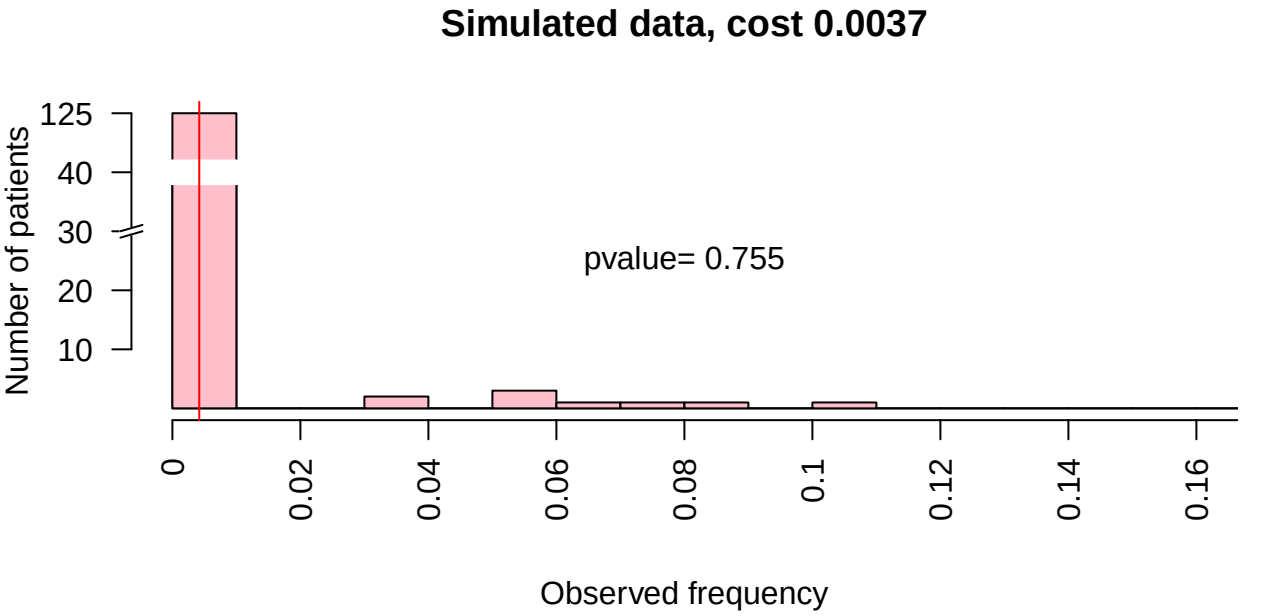

Single−SFS, site 371
Number of patients
158
40
30
20
10
0
Observed frequency

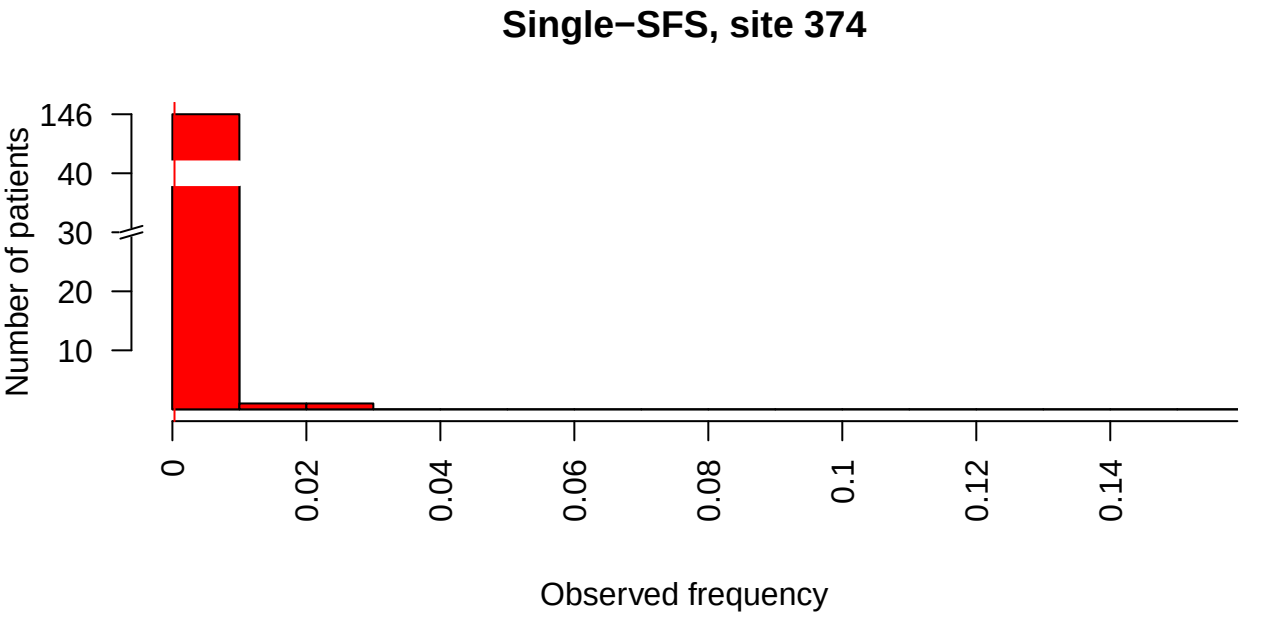

Simulated data, cost 1
Number of patients
158
40
30
20
10
0
pvalue= NaN
Observed frequency

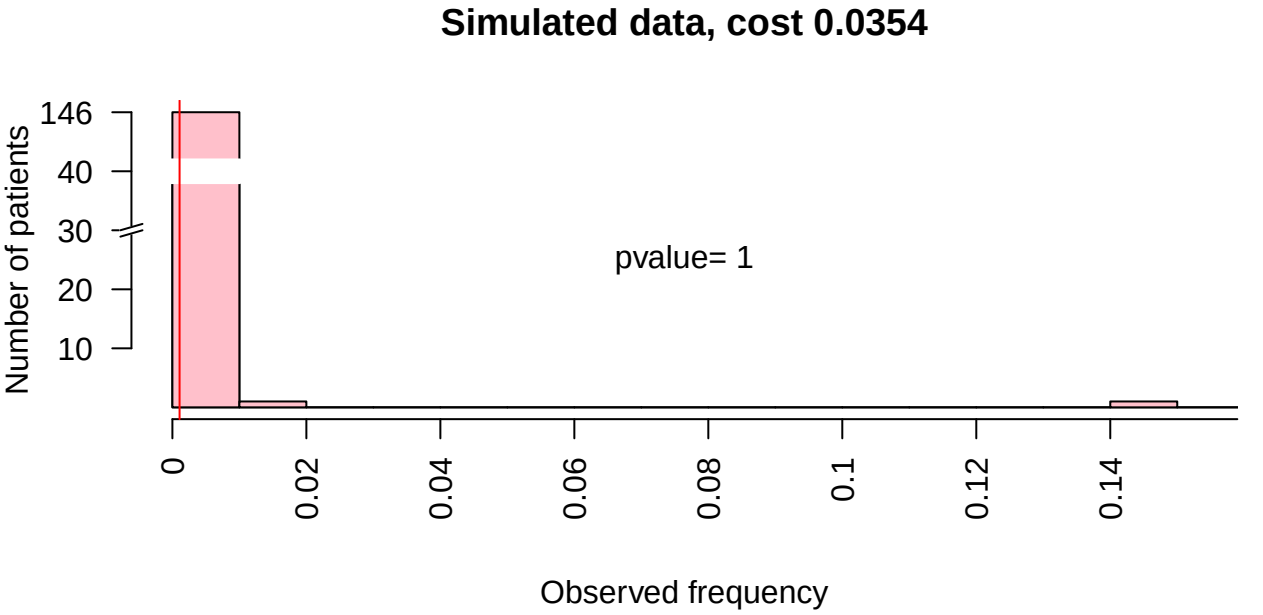

Single−SFS, site 372
Number of patients
146
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
Observed frequency

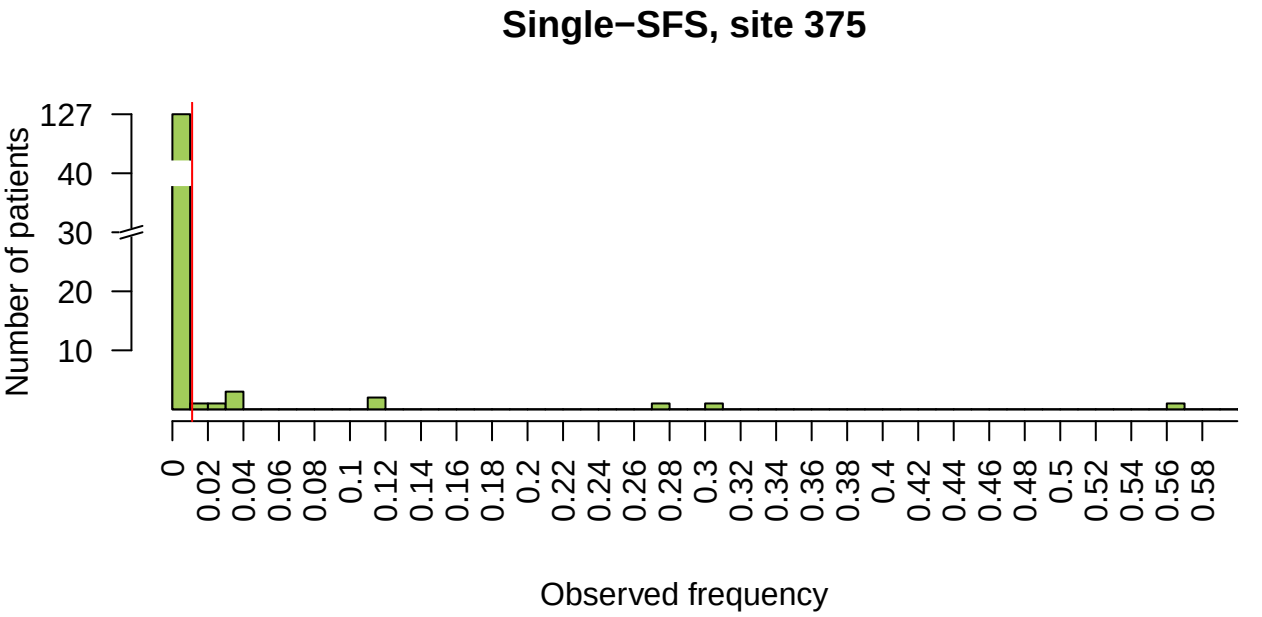

Simulated data, cost 0.0043
Number of patients
149
40
30
20
10
pvalue= 0.439
0
0.02
0.04
0.06
0.08
0.1
0.12
Observed frequency

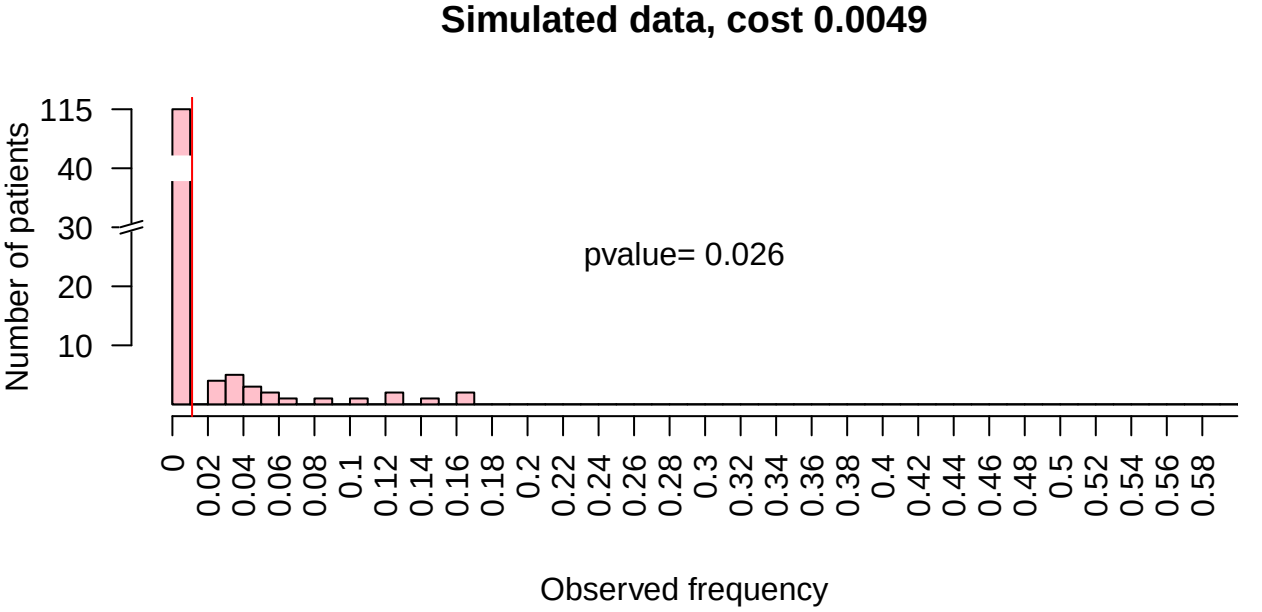

Single−SFS, site 373
Number of patients
126
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
Observed frequency

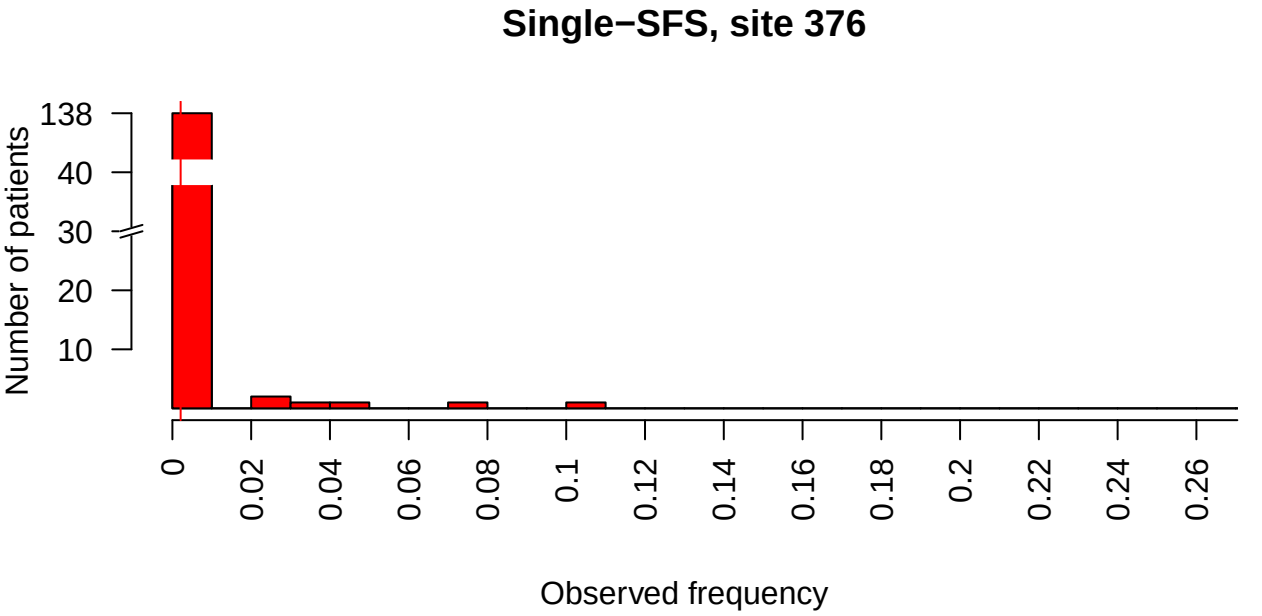

Simulated data, cost 0.0037
Number of patients
125
40
30
20
10
pvalue= 0.755
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
Observed frequency

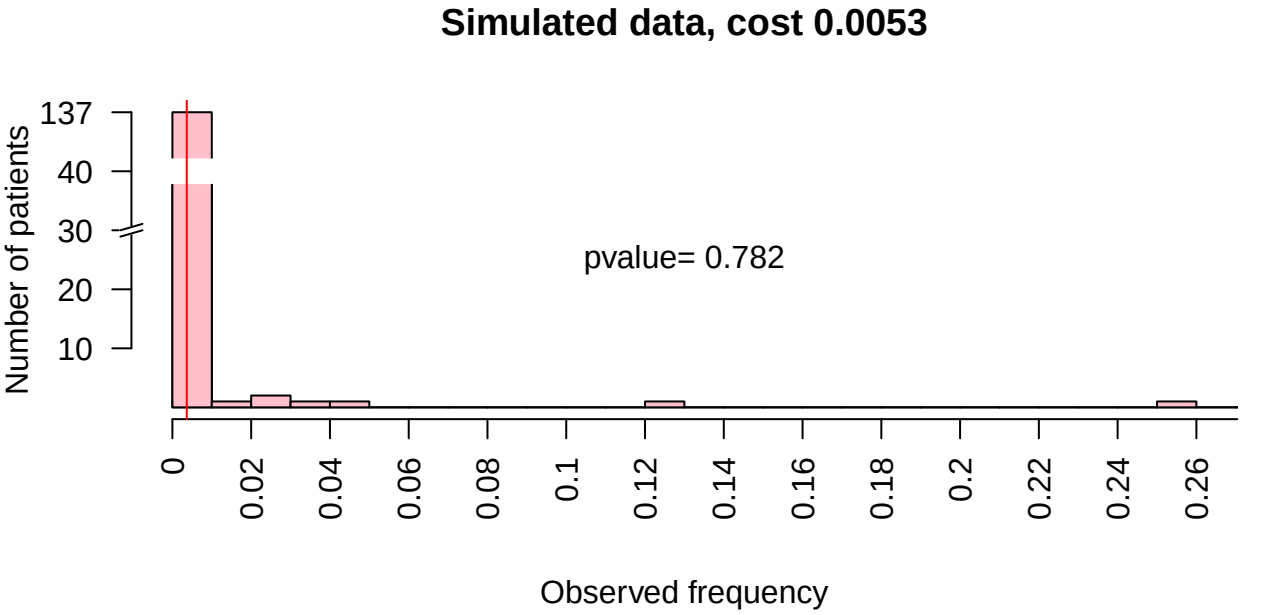

Single−SFS, site 374
Number of patients
146
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
Observed frequency

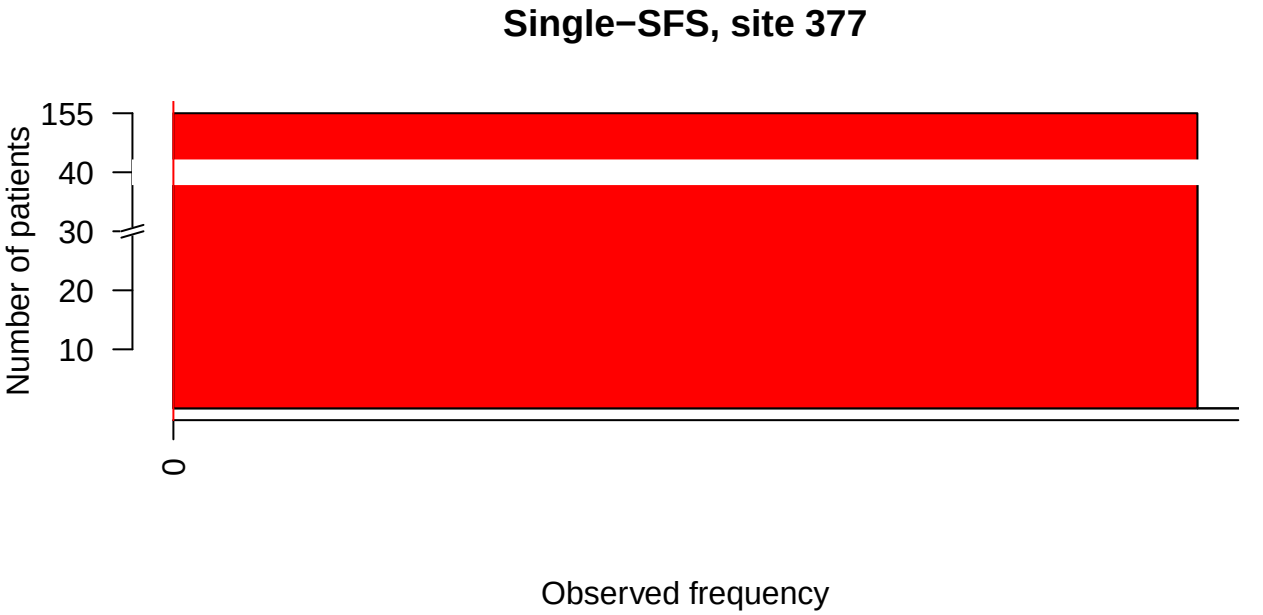

Simulated data, cost 0.0354
Number of patients
146
40
30
20
10
pvalue= 1
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
Observed frequency

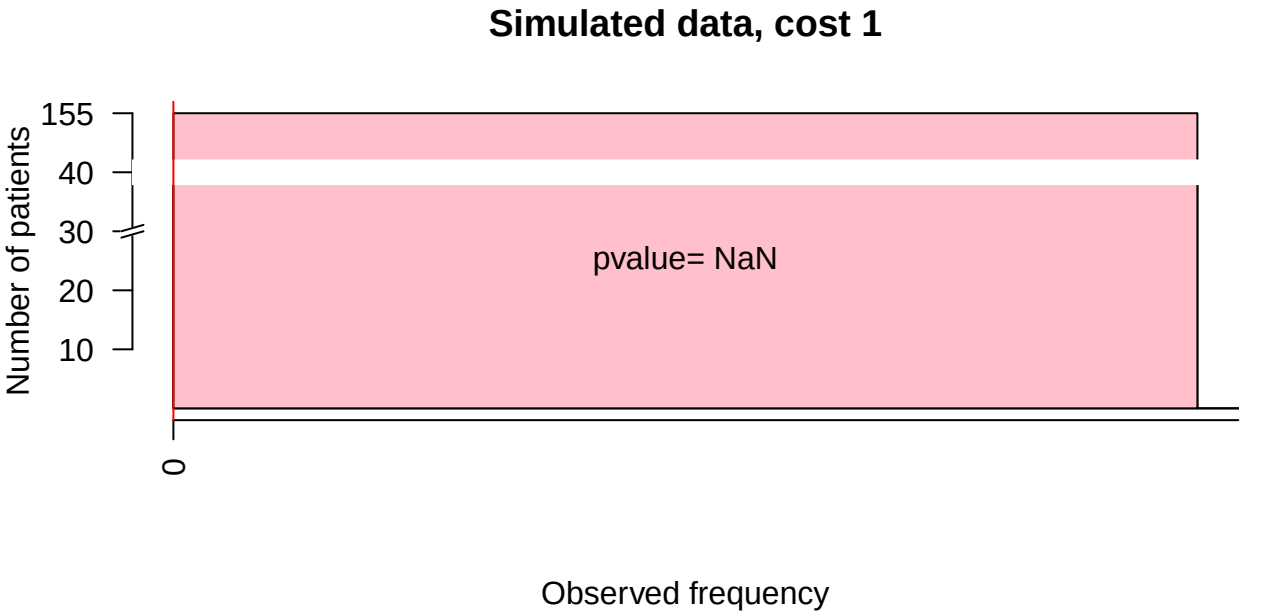

Single−SFS, site 375
Number of patients
127
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
0.24
0.26
0.28
0.3
0.32
0.34
0.36
0.38
0.4
0.42
0.44
0.46
0.48
0.5
0.52
0.54
0.56
0.58
Observed frequency

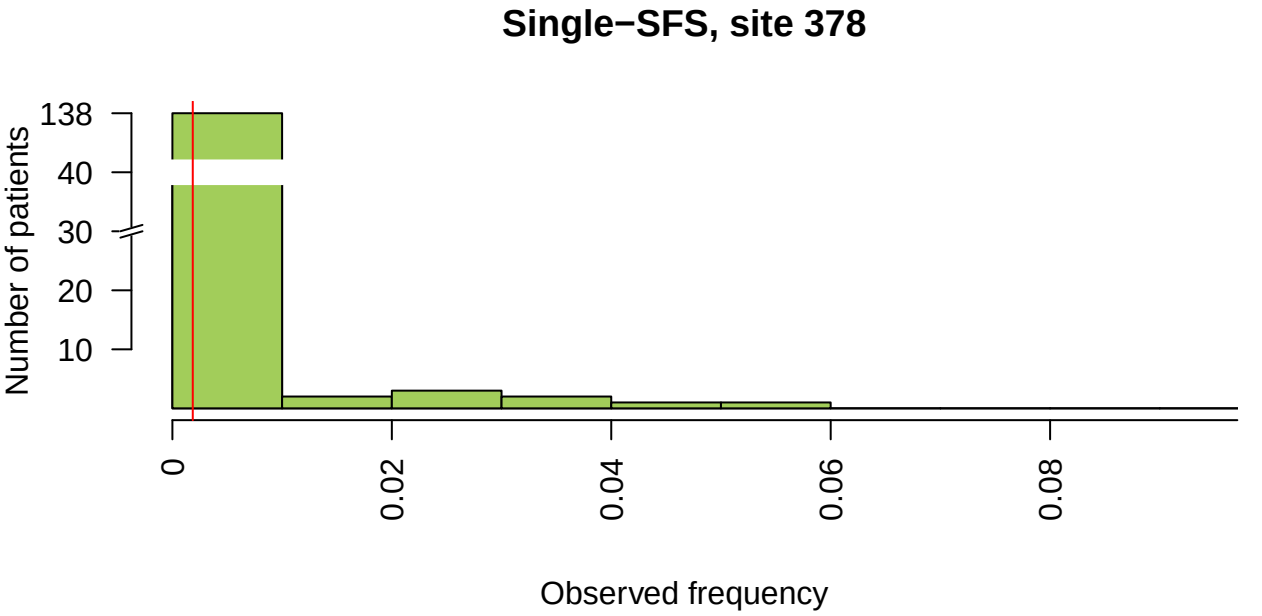

Simulated data, cost 0.0049
Number of patients
115
40
30
20
10
pvalue= 0.026
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
0.24
0.26
0.28
0.3
0.32
0.34
0.36
0.38
0.4
0.42
0.44
0.46
0.48
0.5
0.52
0.54
0.56
0.58
Observed frequency

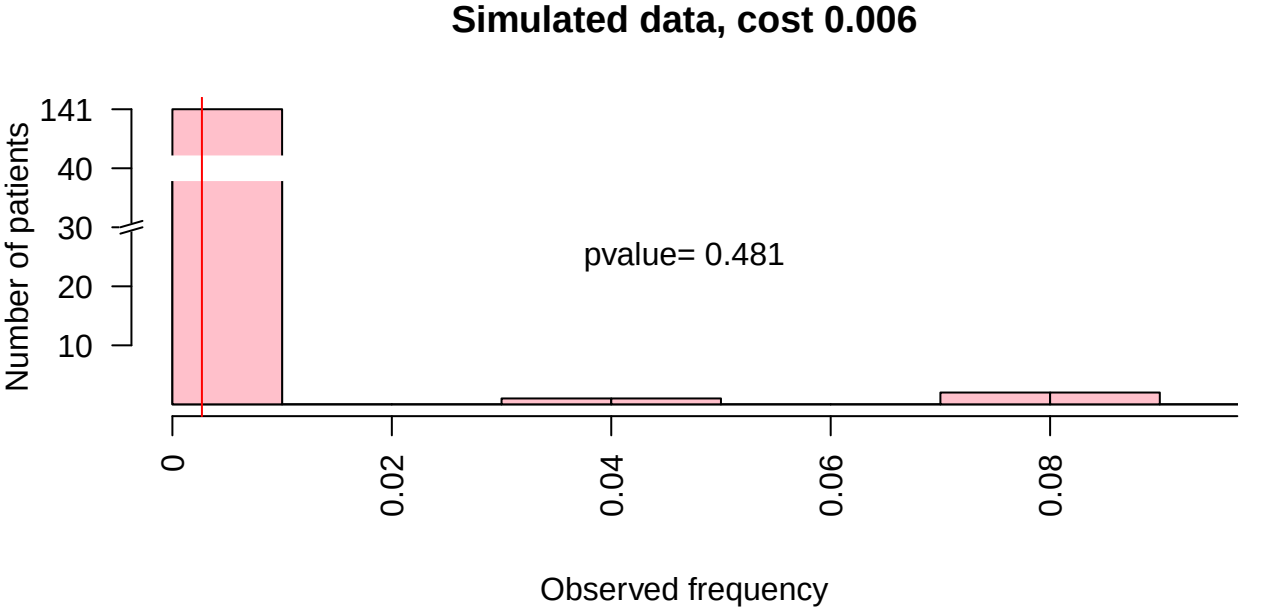

Single−SFS, site 376
Number of patients
138
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
0.24
0.26
Observed frequency

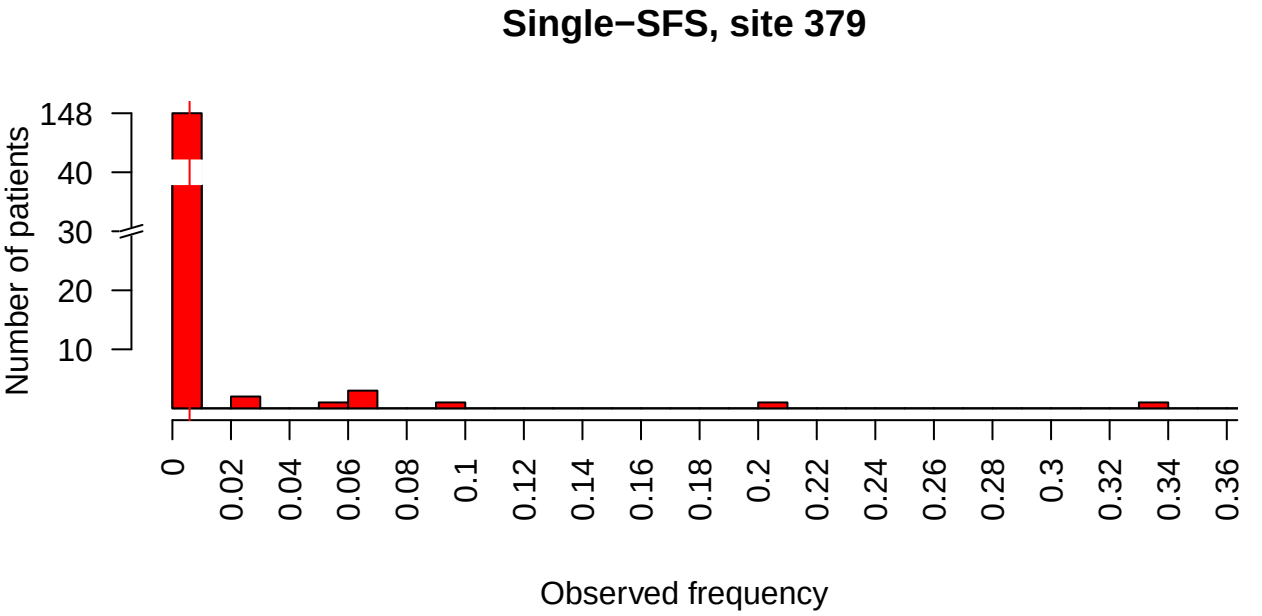

Simulated data, cost 0.0053
Number of patients
137
40
30
20
10
pvalue= 0.782
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
0.24
0.26
Observed frequency

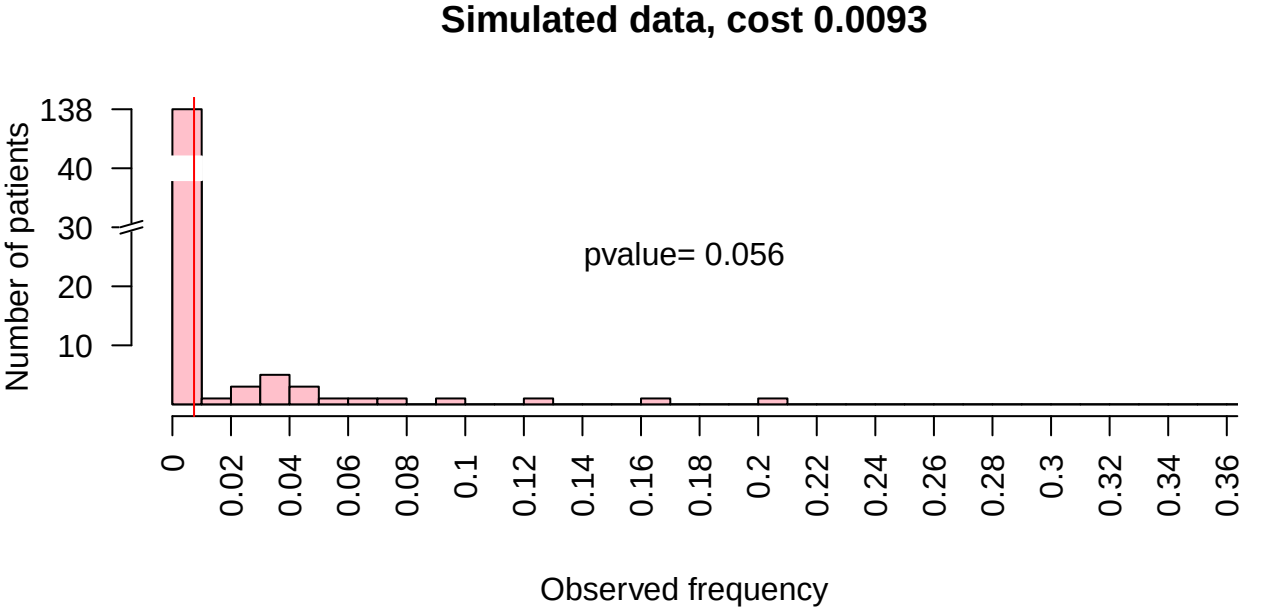

Single−SFS, site 377
Number of patients
155
40
30
20
10
0
Observed frequency

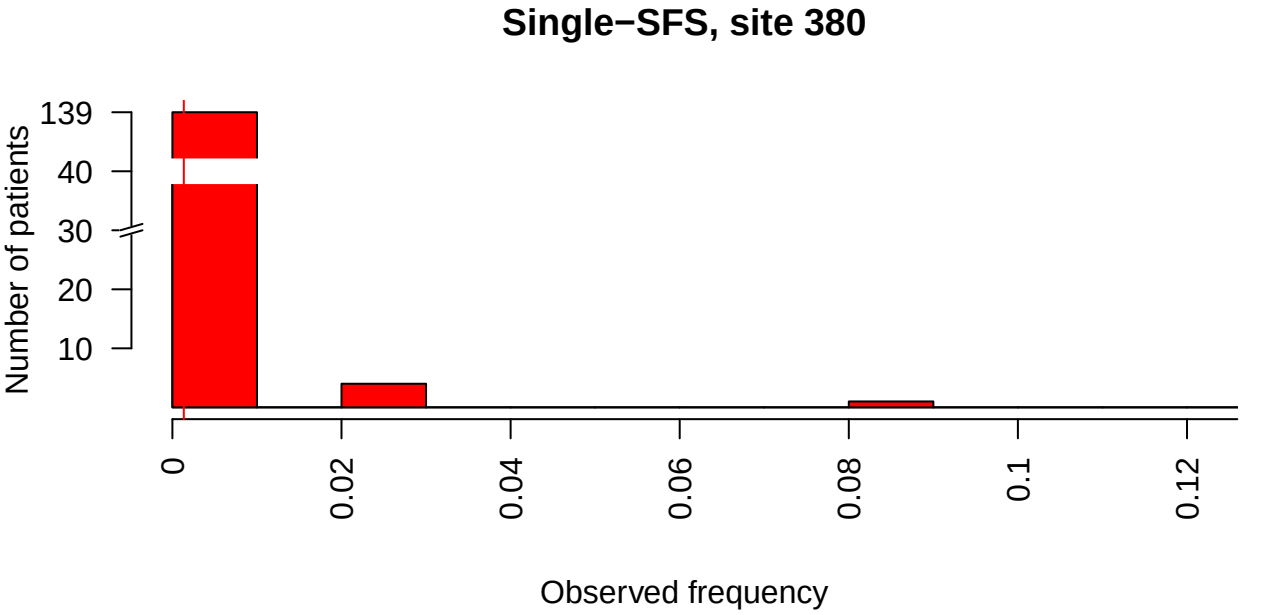

Simulated data, cost 1
Number of patients
155
40
30
20
10
0
pvalue= NaN
Observed frequency

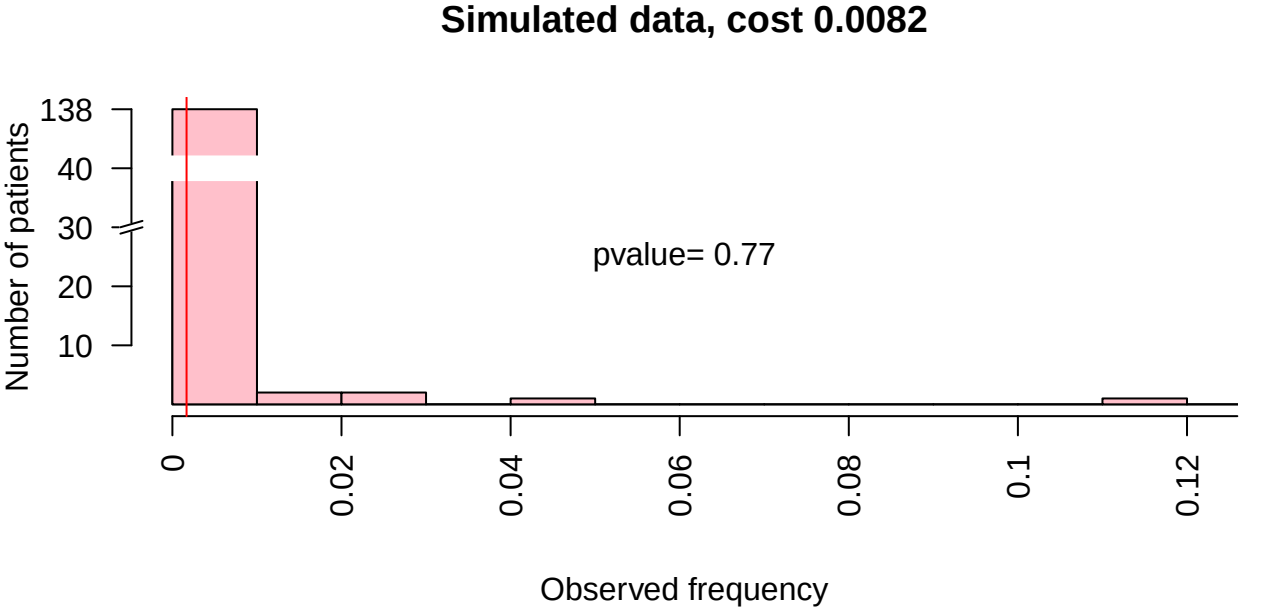

Single−SFS, site 378
Number of patients
138
40
30
20
10
0
0.02
0.04
0.06
0.08
Observed frequency

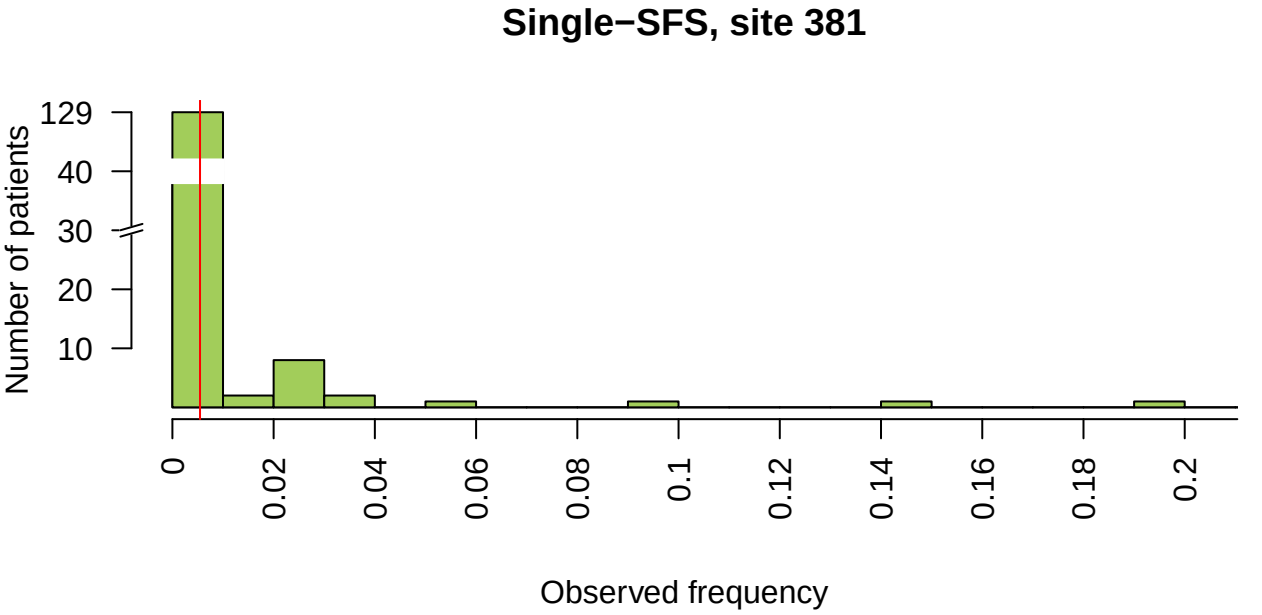

Simulated data, cost 0.006
Number of patients
141
40
30
20
10
pvalue= 0.481
0
0.02
0.04
0.06
0.08
Observed frequency

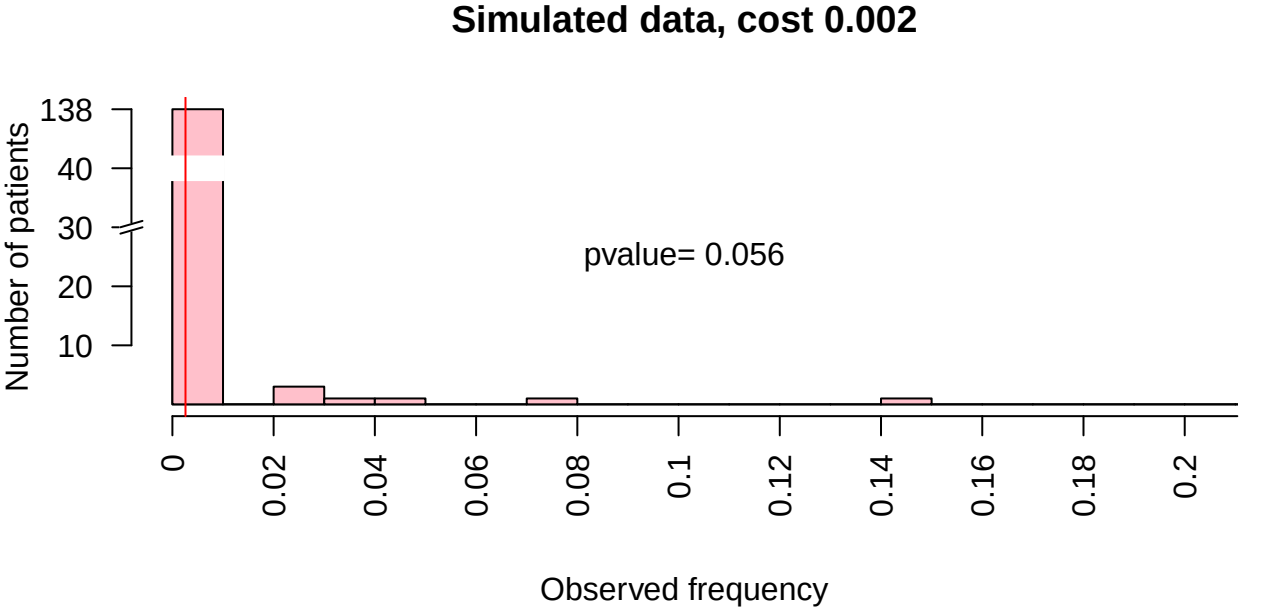

Single−SFS, site 379
Number of patients
148
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
0.24
0.26
0.28
0.3
0.32
0.34
0.36
Observed frequency

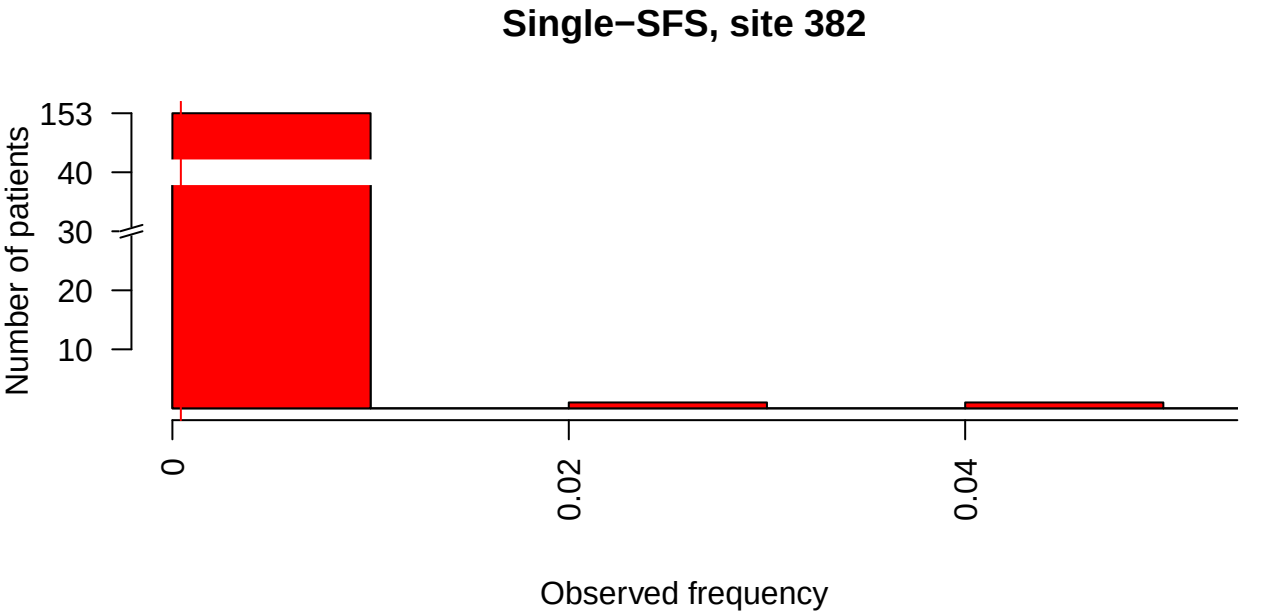

Simulated data, cost 0.0093
Number of patients
138
40
30
20
10
pvalue= 0.056
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
0.24
0.26
0.28
0.3
0.32
0.34
0.36
Observed frequency

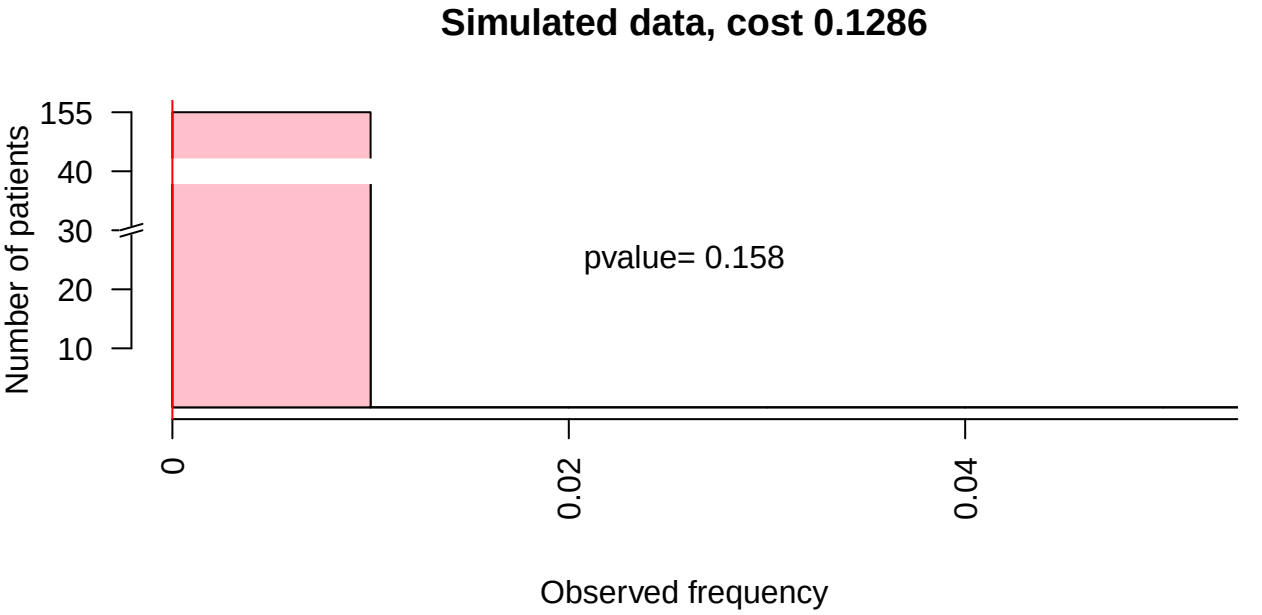

Single−SFS, site 380
Number of patients
139
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
Observed frequency

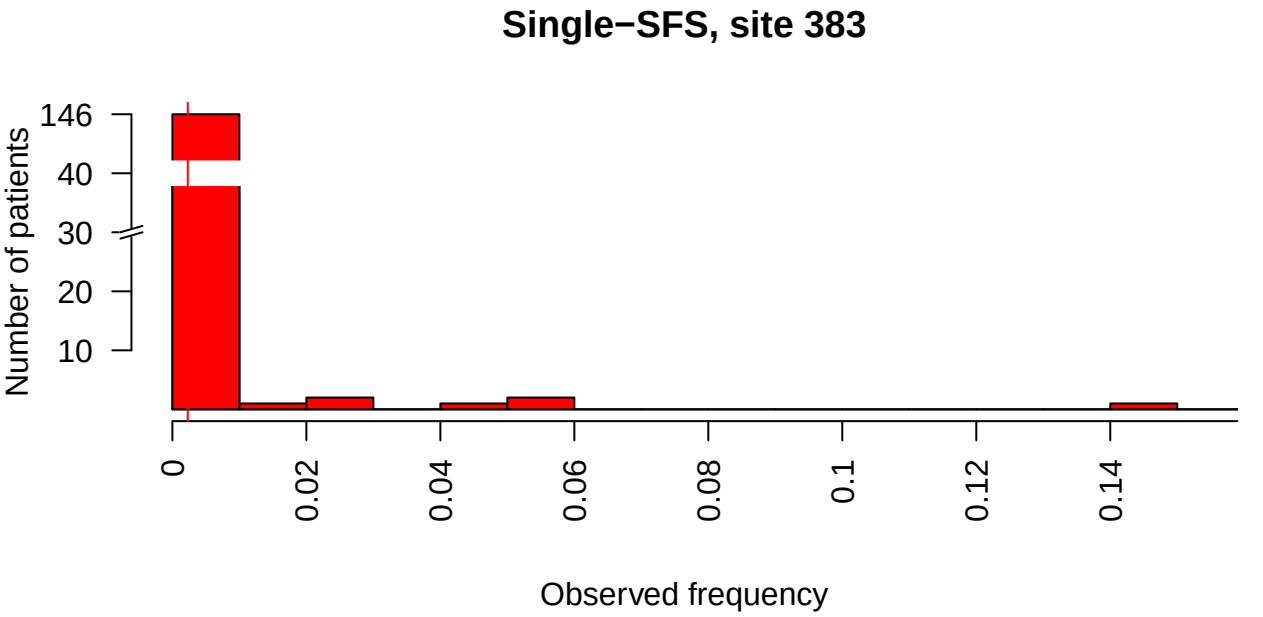

Simulated data, cost 0.0082
Number of patients
138
40
30
20
10
pvalue= 0.77
0
0.02
0.04
0.06
0.08
0.1
0.12
Observed frequency

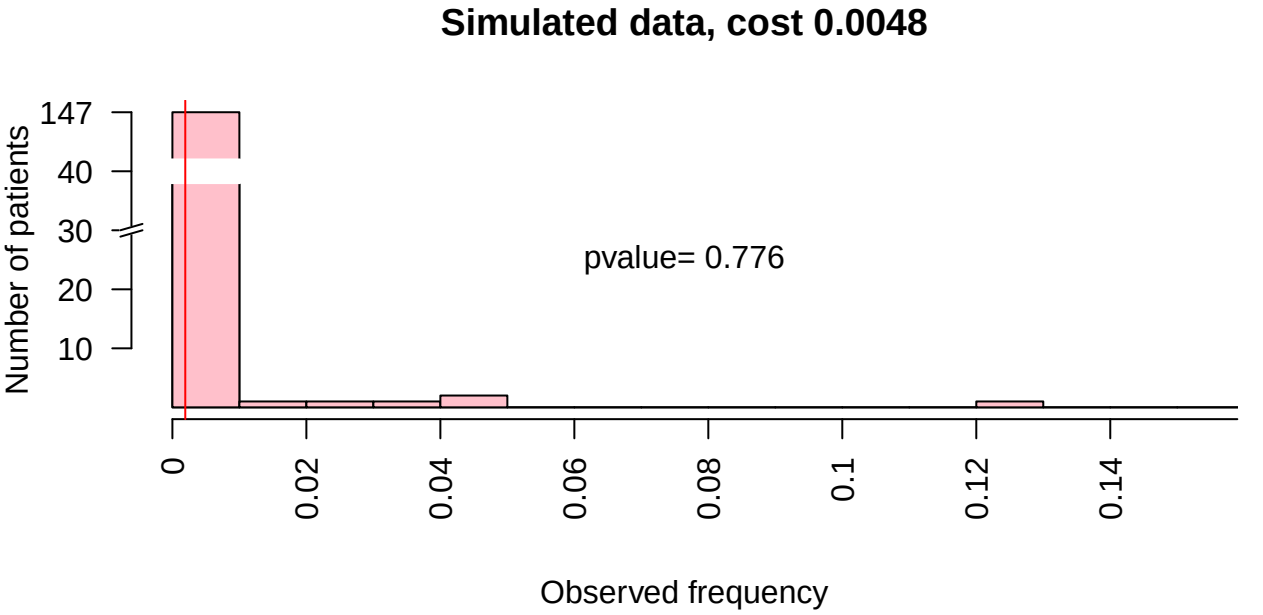

Single−SFS, site 381
Number of patients
129
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
Observed frequency

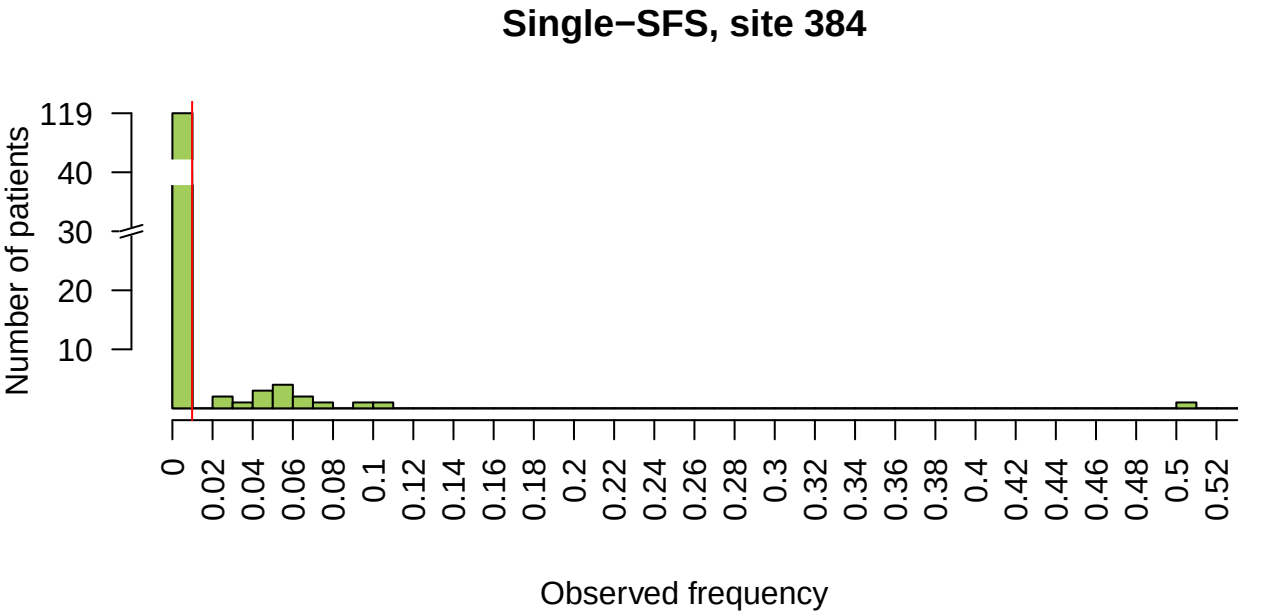

Simulated data, cost 0.002
Number of patients
138
40
30
20
10
pvalue= 0.056
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
Observed frequency

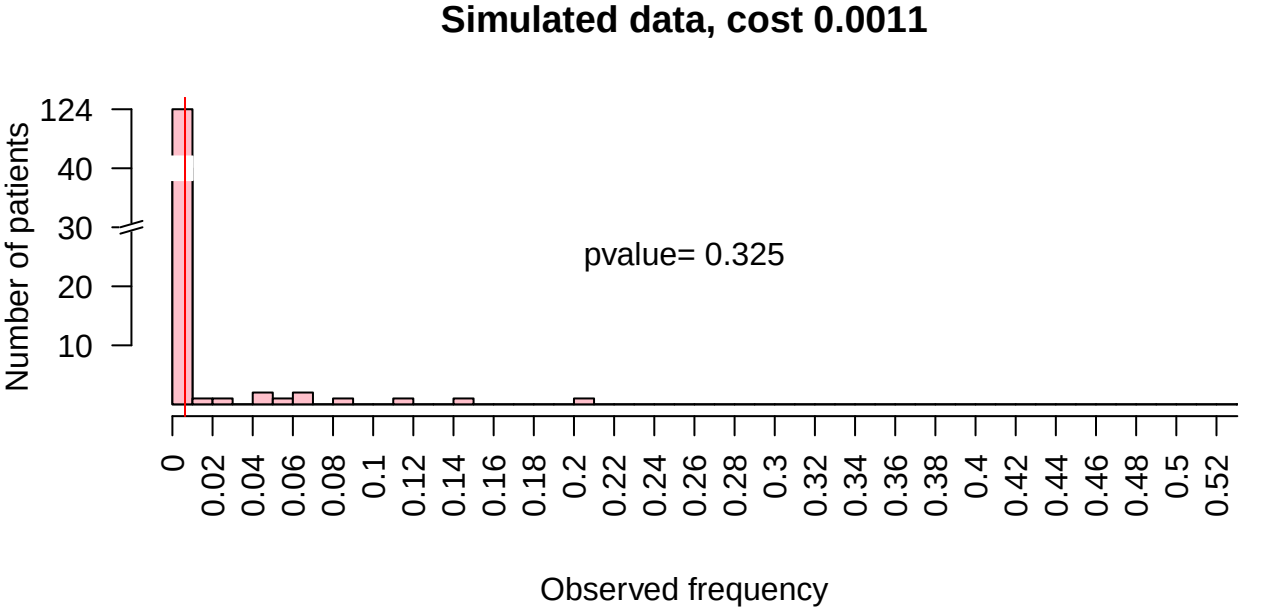

Single−SFS, site 382
Number of patients
153
40
30
20
10
0
0.02
0.04
Observed frequency

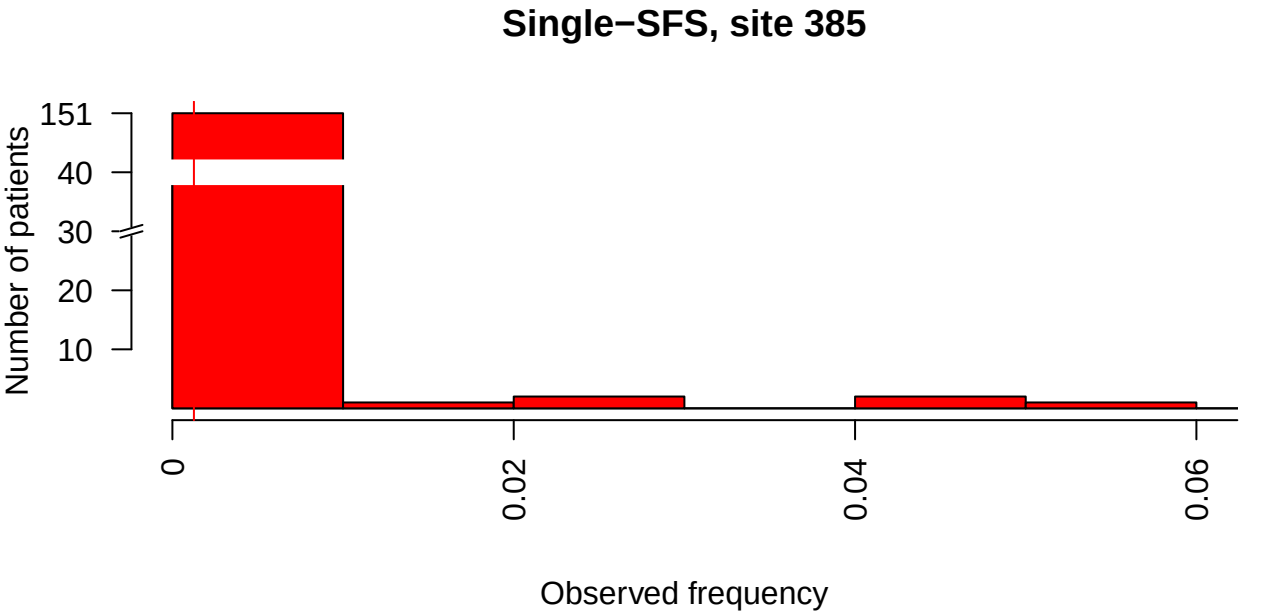

Simulated data, cost 0.1286
Number of patients
155
40
30
20
10
pvalue= 0.158
0
0.02
0.04
Observed frequency

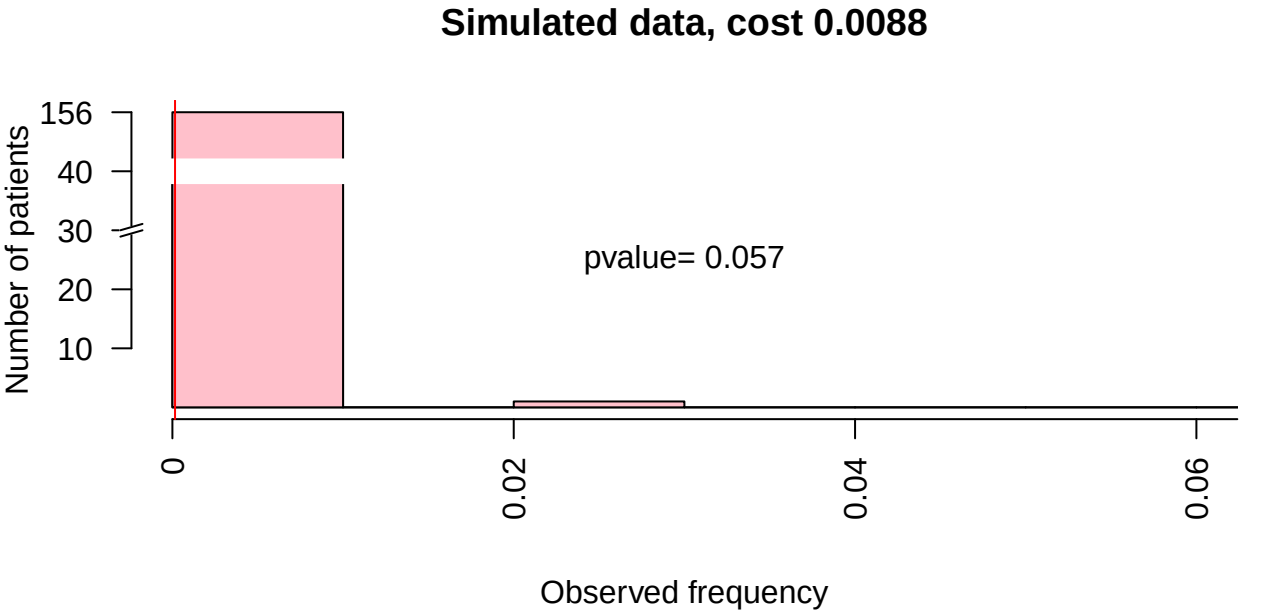

Single−SFS, site 383
Number of patients
146
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
Observed frequency

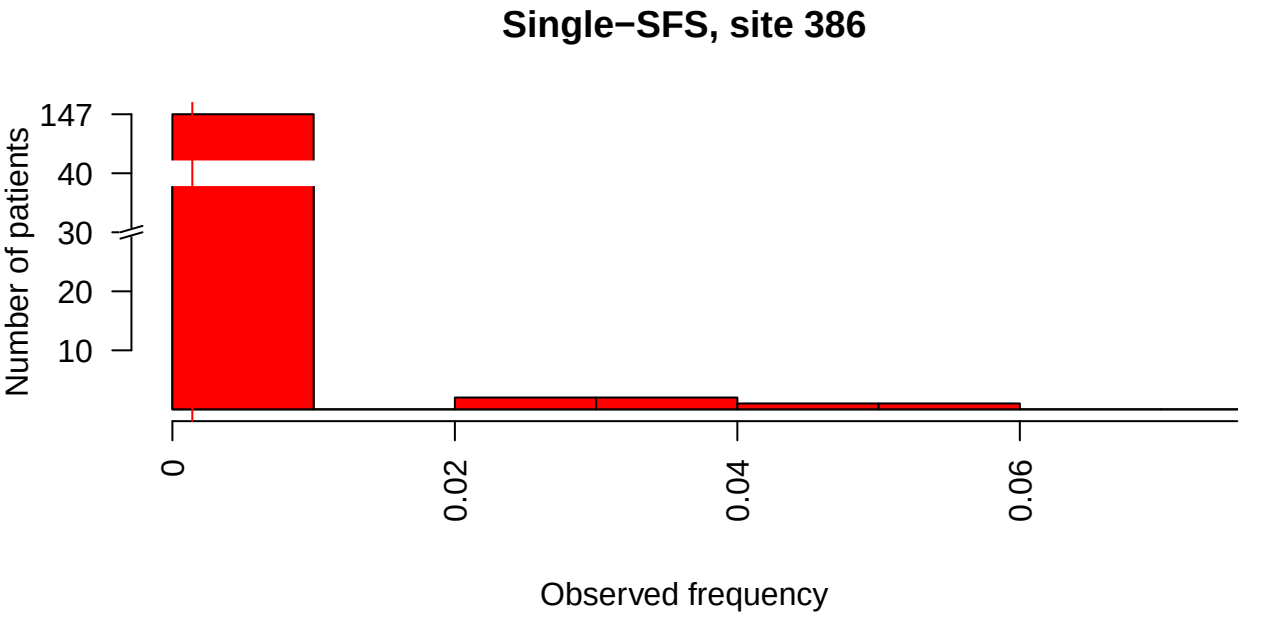

Simulated data, cost 0.0048
Number of patients
147
40
30
20
10
pvalue= 0.776
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
Observed frequency

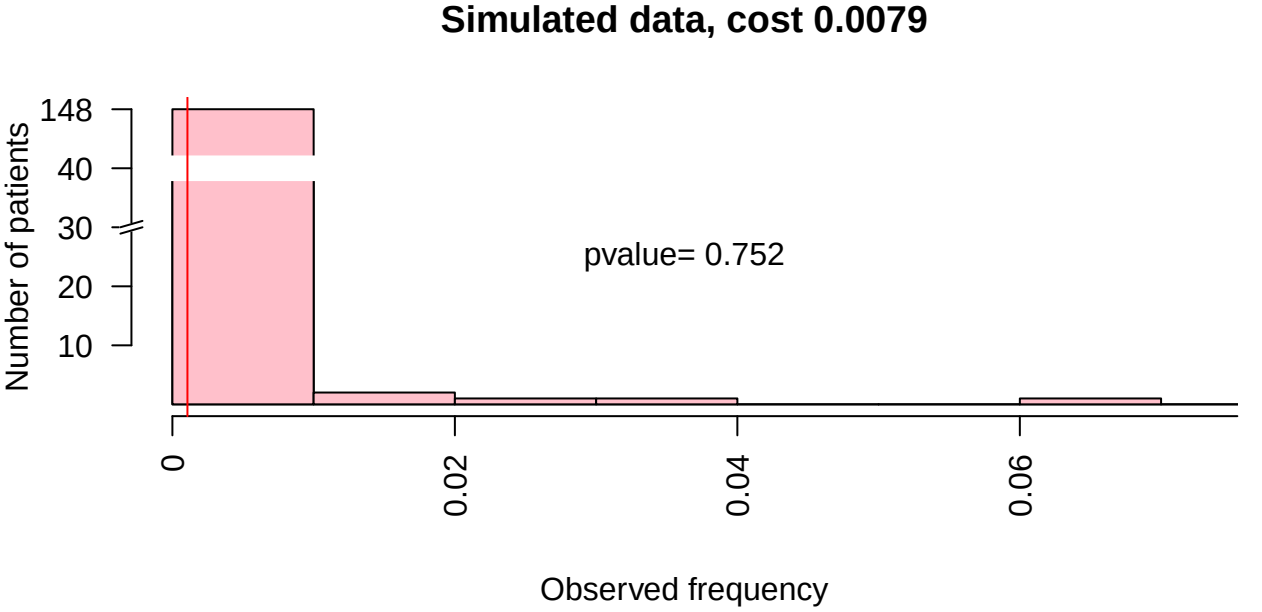

Single−SFS, site 384
Number of patients
119
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
0.24
0.26
0.28
0.3
0.32
0.34
0.36
0.38
0.4
0.42
0.44
0.46
0.48
0.5
0.52
Observed frequency

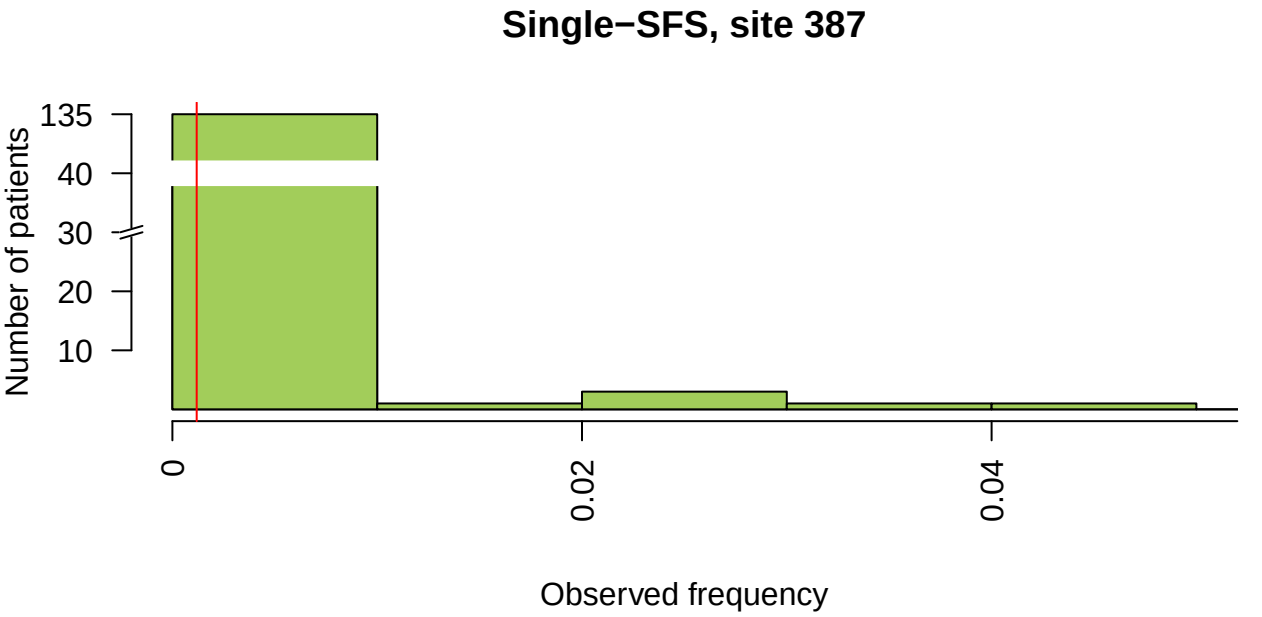

Simulated data, cost 0.0011
Number of patients
124
40
30
20
10
pvalue= 0.325
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
0.24
0.26
0.28
0.3
0.32
0.34
0.36
0.38
0.4
0.42
0.44
0.46
0.48
0.5
0.52
Observed frequency

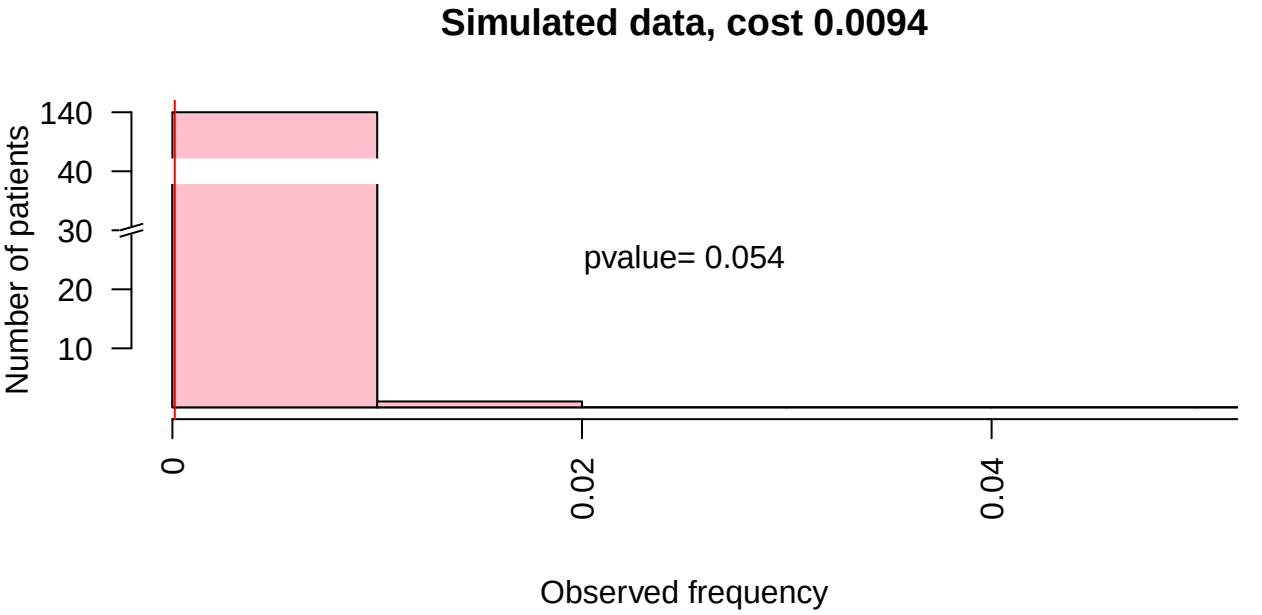

Single−SFS, site 385
Number of patients
151
40
30
20
10
0
0.02
0.04
0.06
Observed frequency

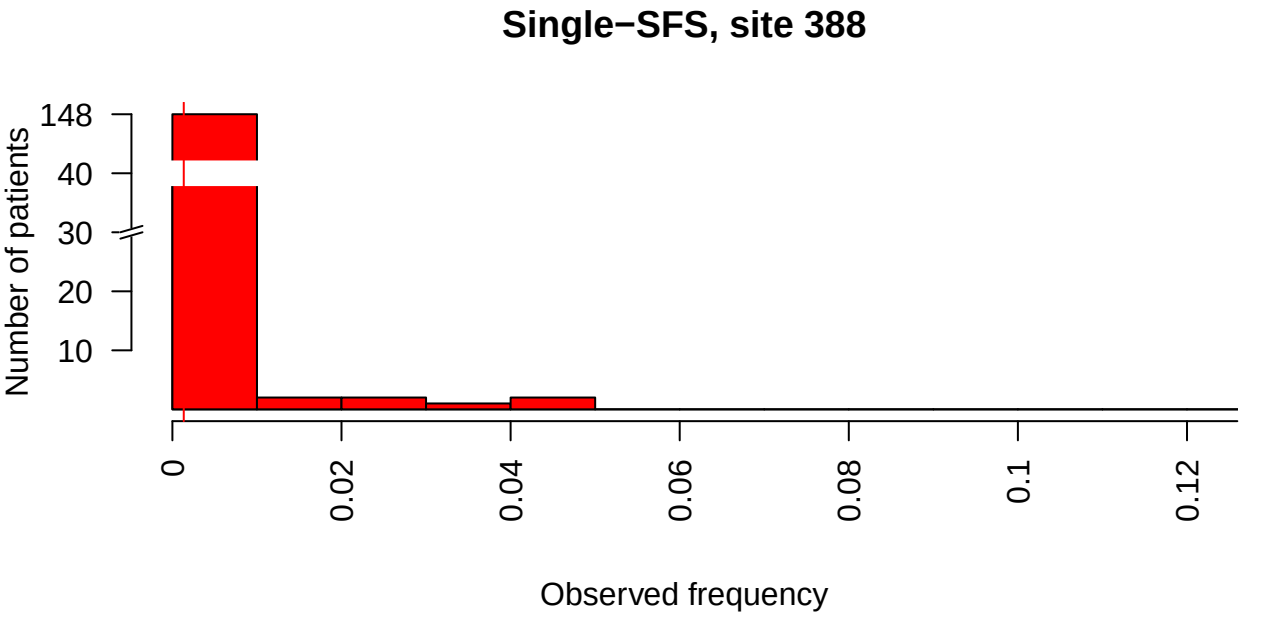

Simulated data, cost 0.0088
Number of patients
156
40
30
20
10
pvalue= 0.057
0
0.02
0.04
0.06
Observed frequency

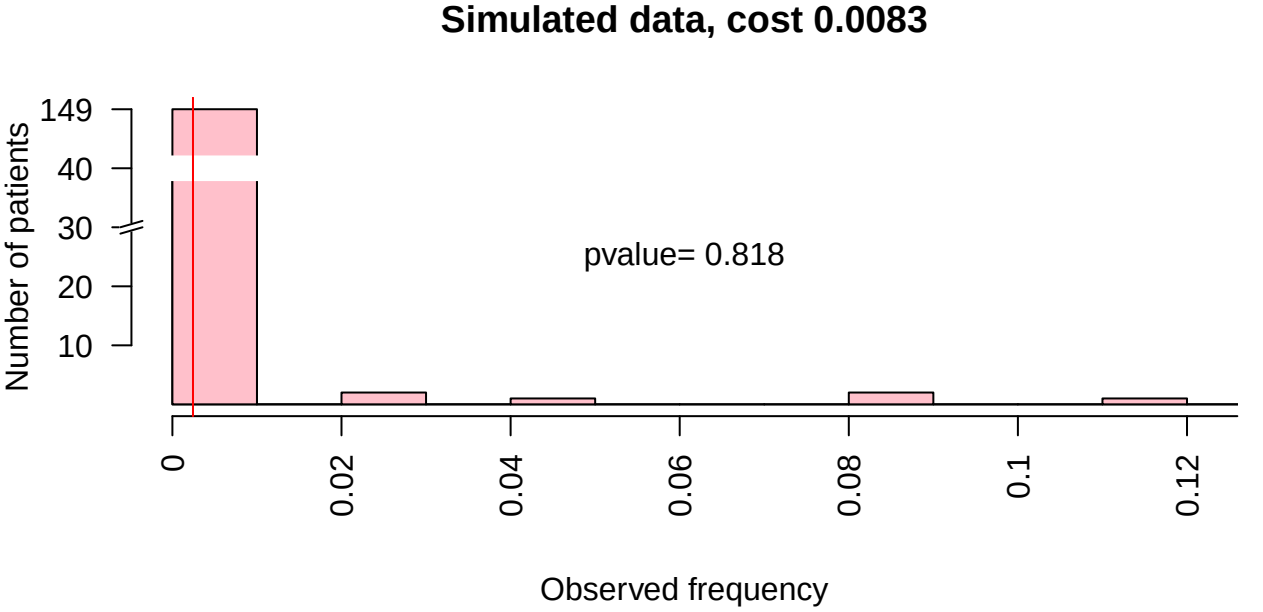

Single−SFS, site 386
Number of patients
147
40
30
20
10
0
0.02
0.04
0.06
Observed frequency

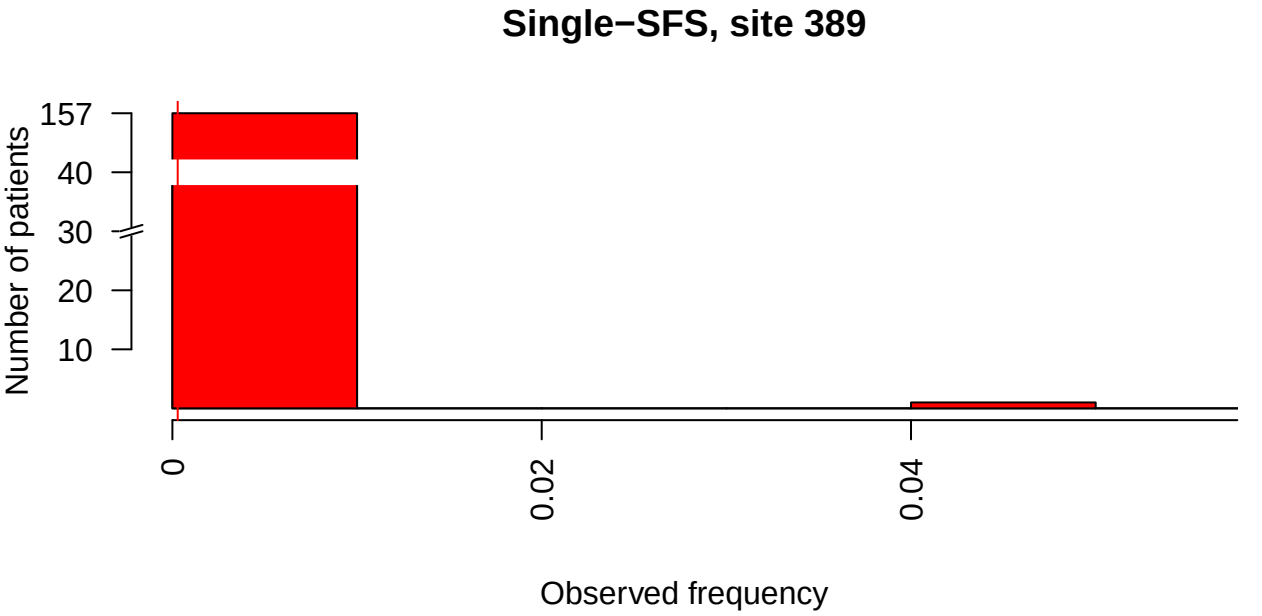

Simulated data, cost 0.0079
Number of patients
148
40
30
20
10
pvalue= 0.752
0
0.02
0.04
0.06
Observed frequency

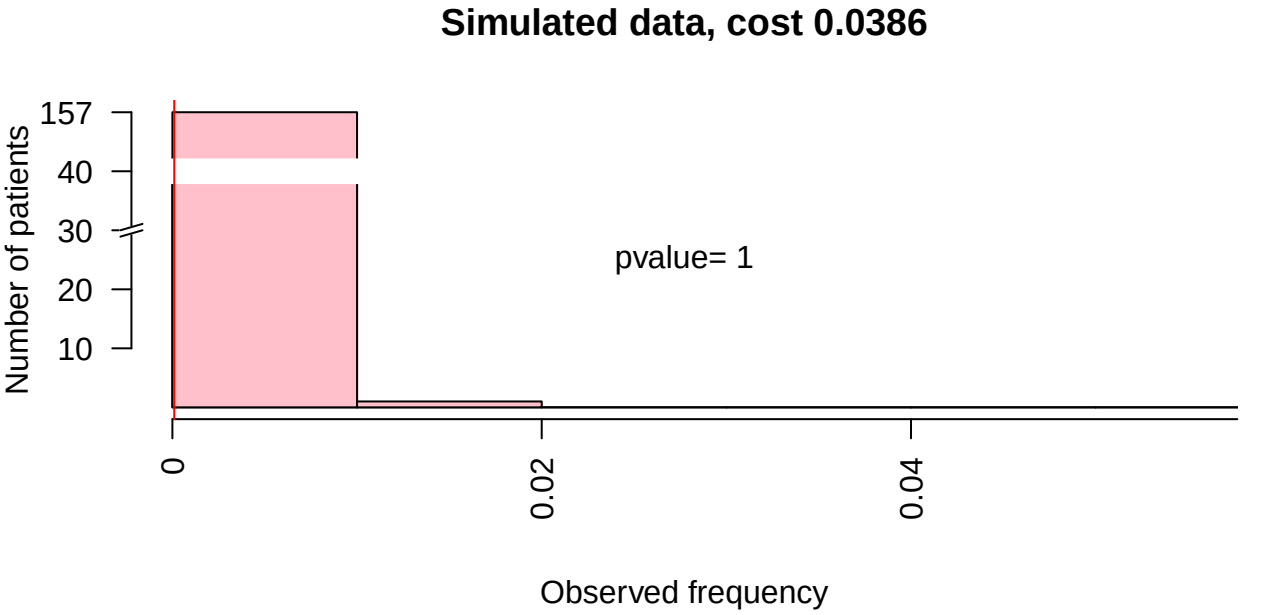

Single−SFS, site 387
Number of patients
135
40
30
20
10
0
0.02
0.04
Observed frequency

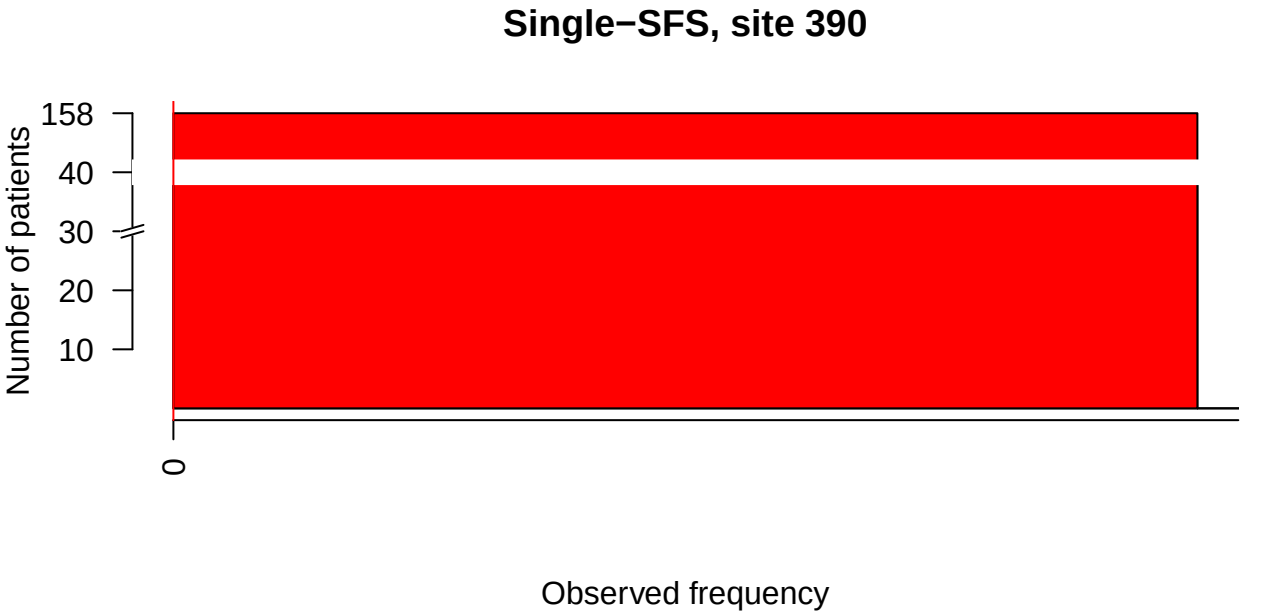

Simulated data, cost 0.0094
Number of patients
140
40
30
20
10
pvalue= 0.054
0
0.02
0.04
Observed frequency

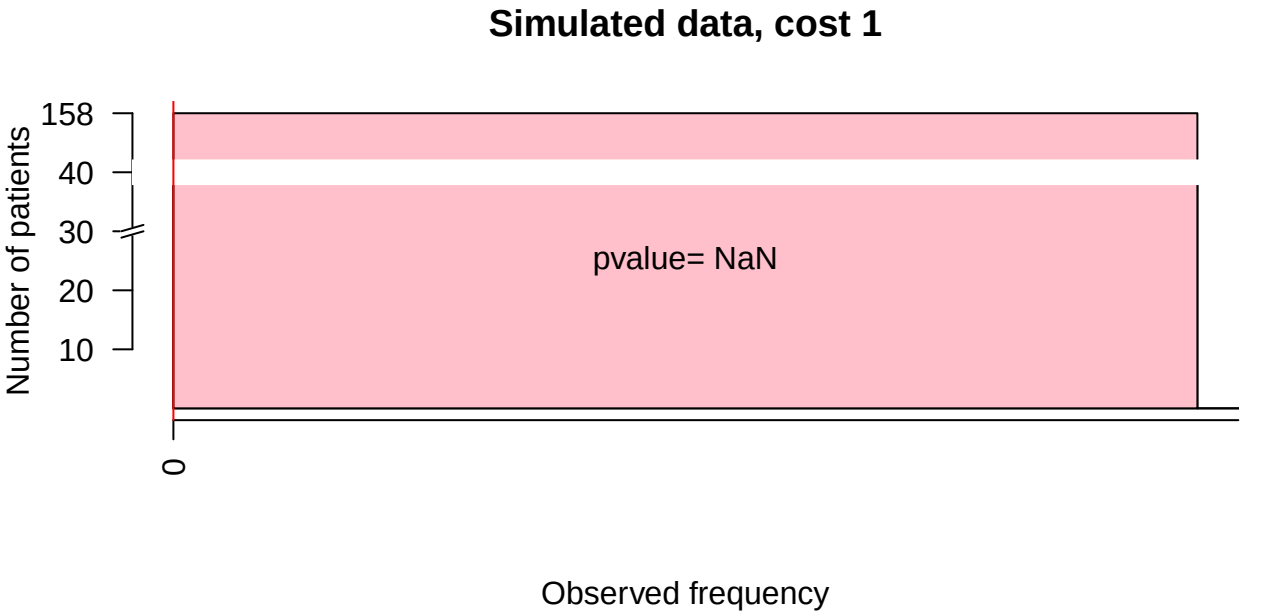

Single−SFS, site 388
Number of patients
148
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
Observed frequency

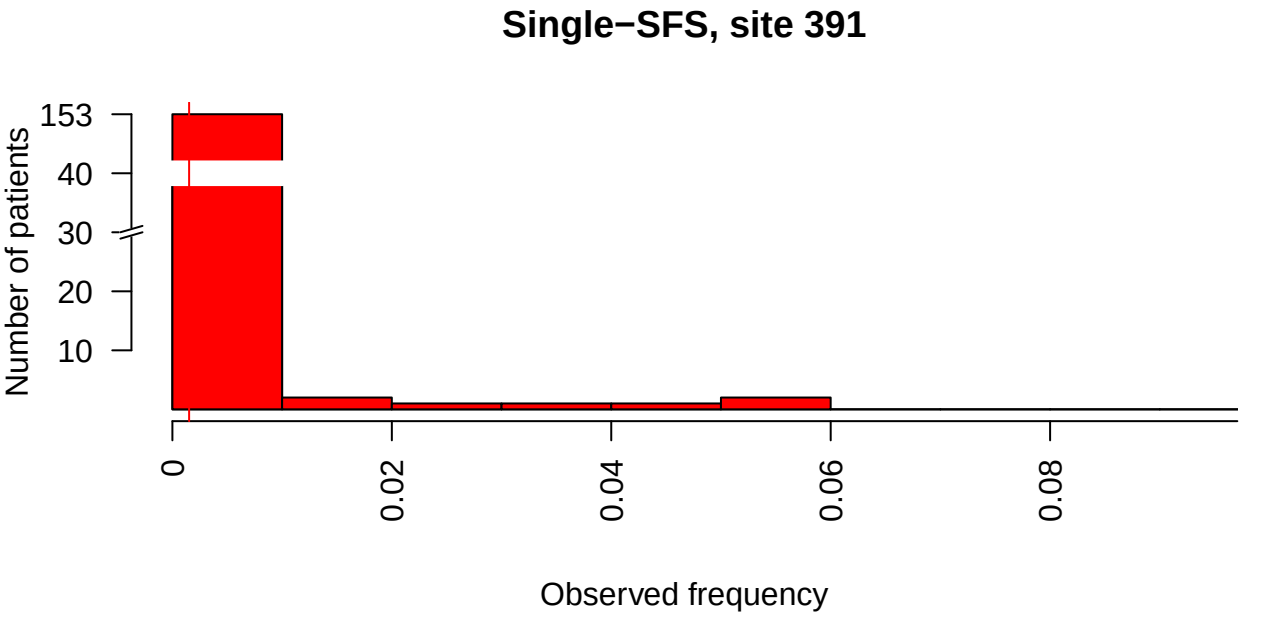

Simulated data, cost 0.0083
Number of patients
149
40
30
20
10
pvalue= 0.818
0
0.02
0.04
0.06
0.08
0.1
0.12
Observed frequency

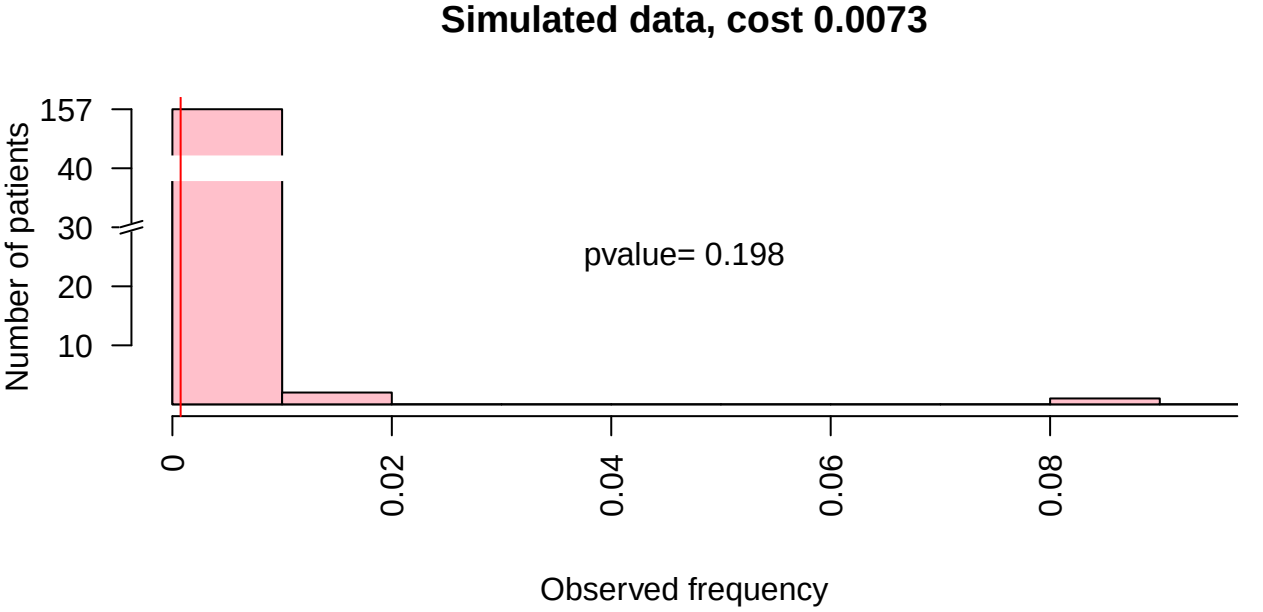

Single−SFS, site 389
Number of patients
157
40
30
20
10
0
0.02
0.04
Observed frequency

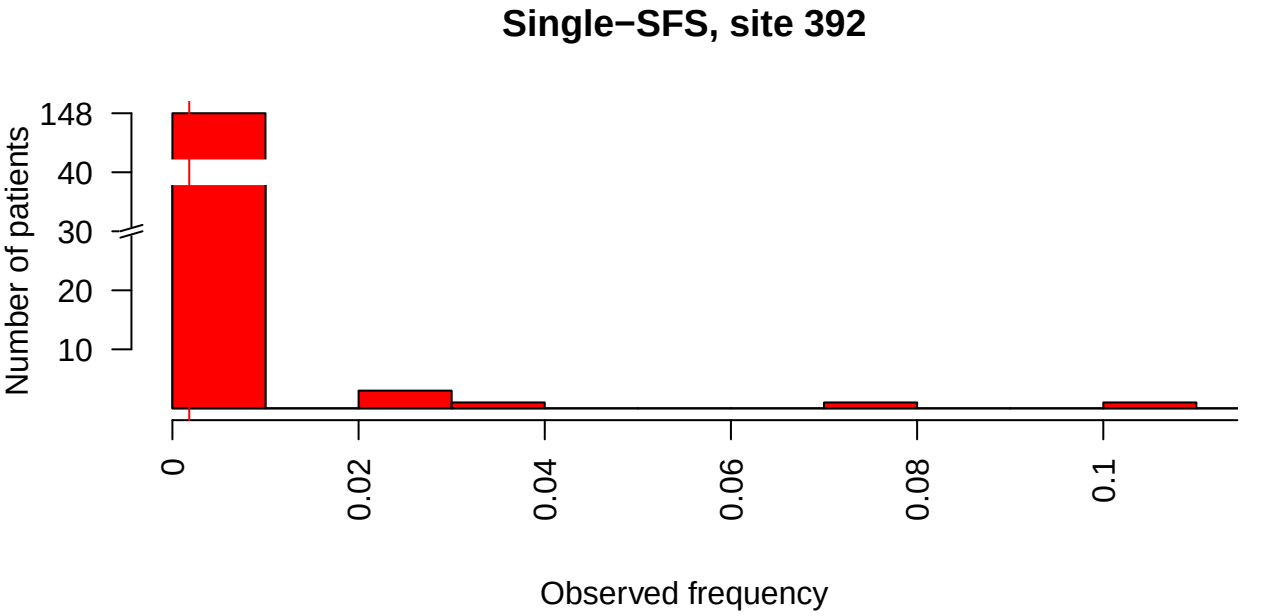

Simulated data, cost 0.0386
Number of patients
157
40
30
20
10
pvalue= 1
0
0.02
0.04
Observed frequency

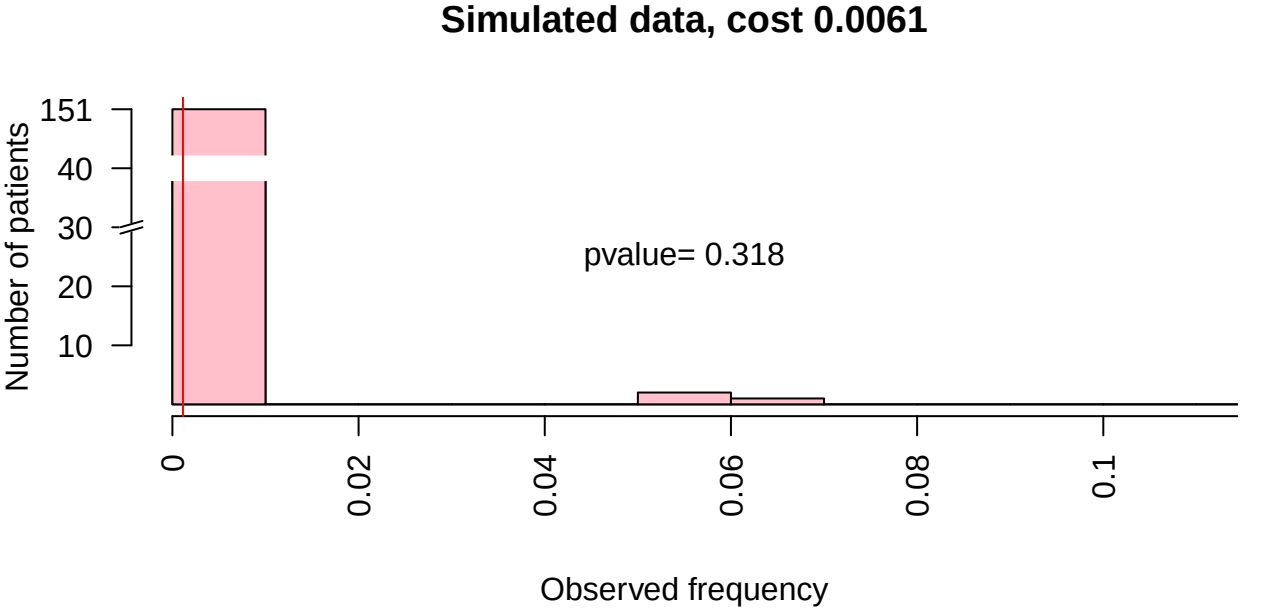

Single−SFS, site 390
Number of patients
158
40
30
20
10
0
Observed frequency

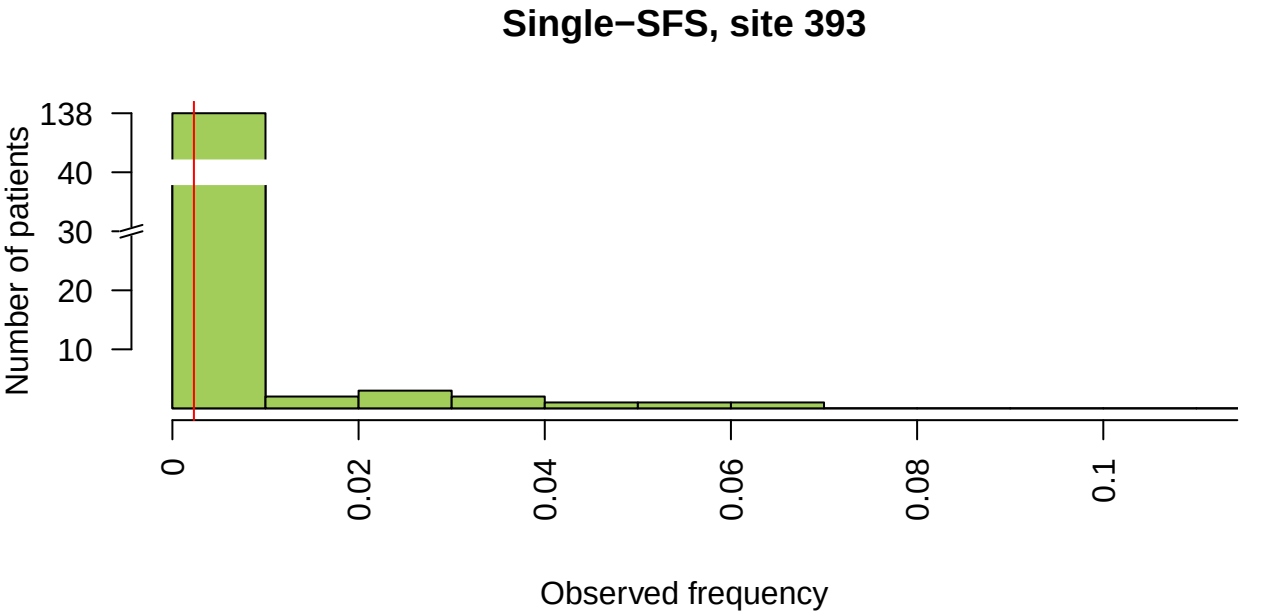

Simulated data, cost 1
Number of patients
158
40
30
20
10
0
pvalue= NaN
Observed frequency

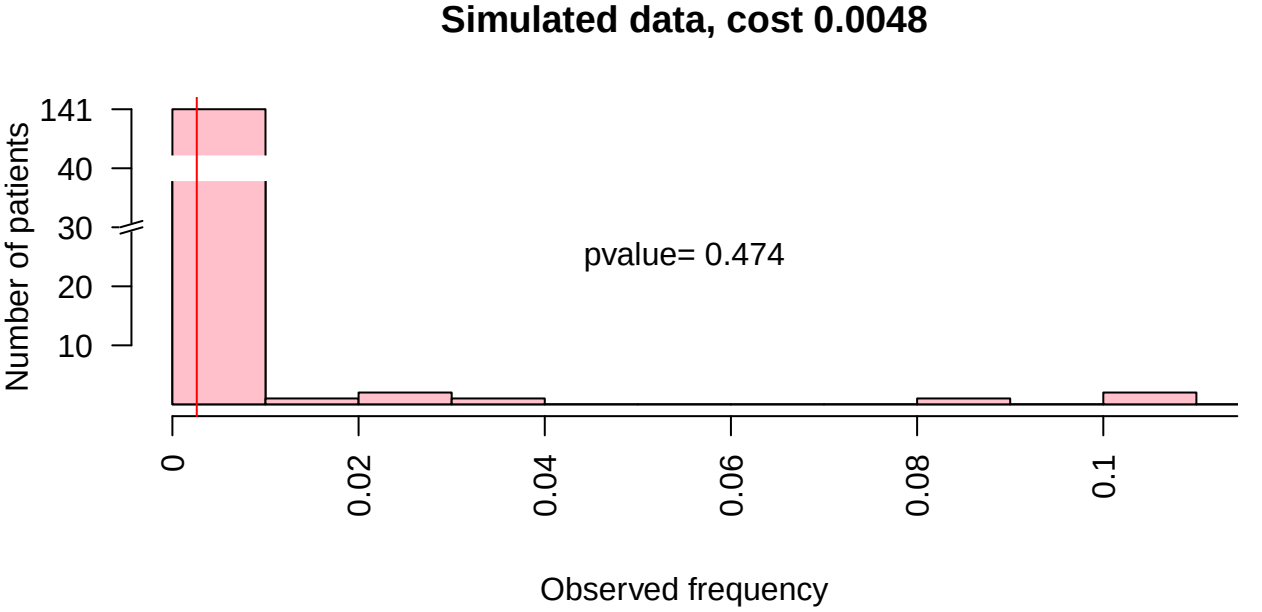

Single−SFS, site 391
Number of patients
153
40
30
20
10
0
0.02
0.04
0.06
0.08
Observed frequency

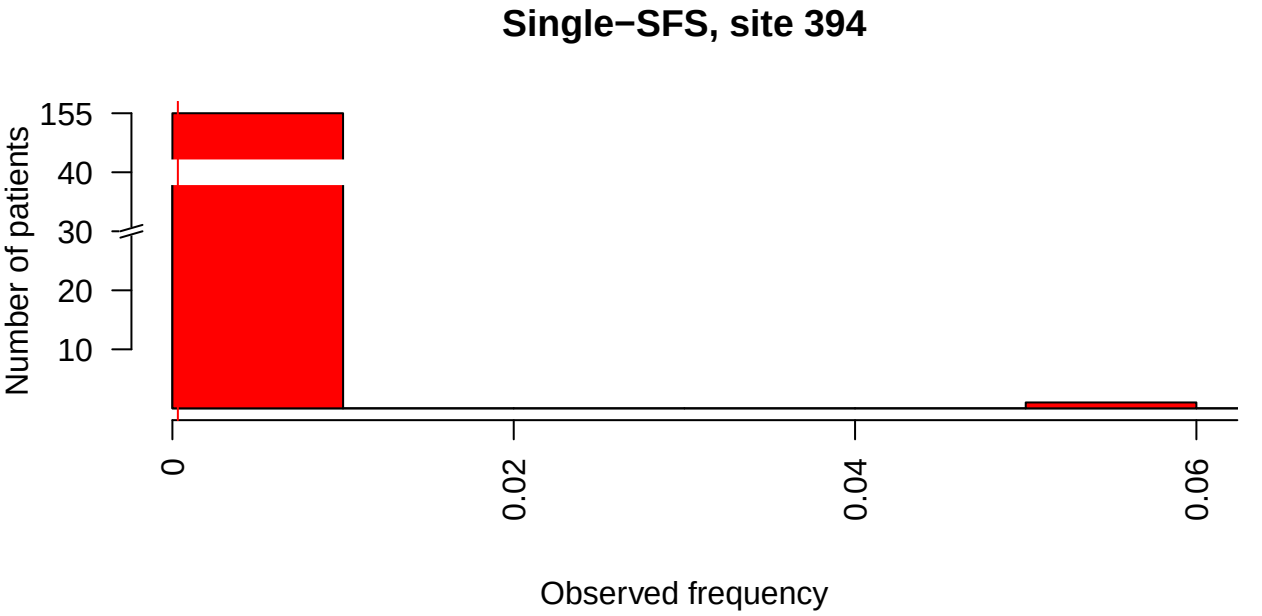

Simulated data, cost 0.0073
Number of patients
157
40
30
20
10
pvalue= 0.198
0
0.02
0.04
0.06
0.08
Observed frequency

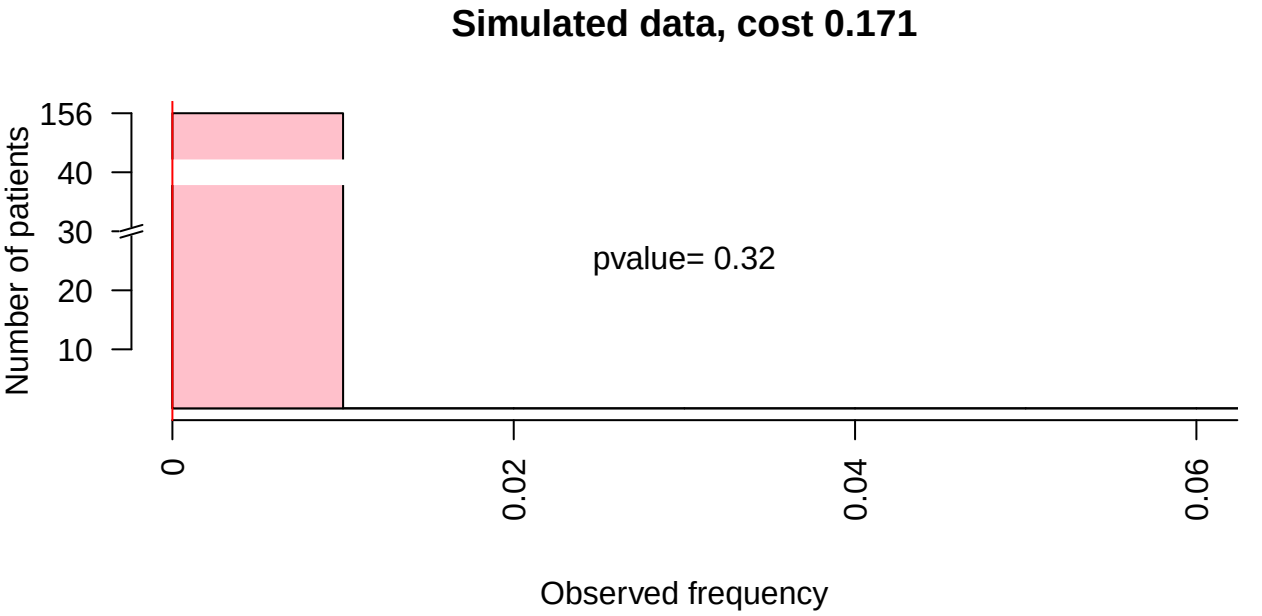

Single−SFS, site 392
Number of patients
148
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
Observed frequency

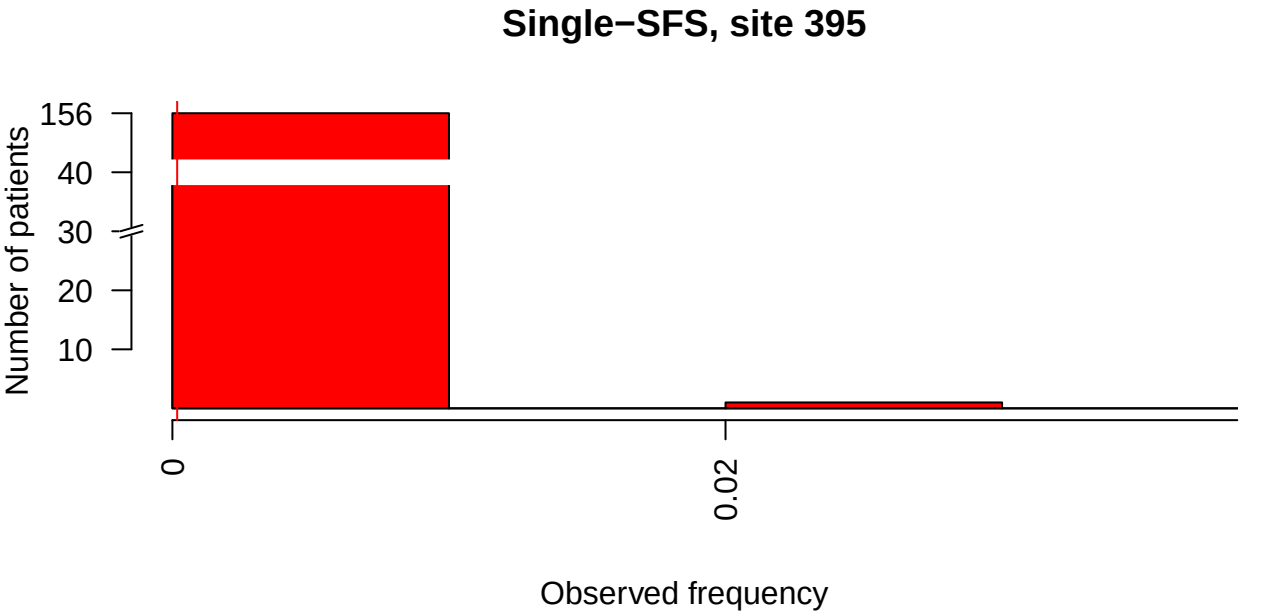

Simulated data, cost 0.0061
Number of patients
151
40
30
20
10
pvalue= 0.318
0
0.02
0.04
0.06
0.08
0.1
Observed frequency

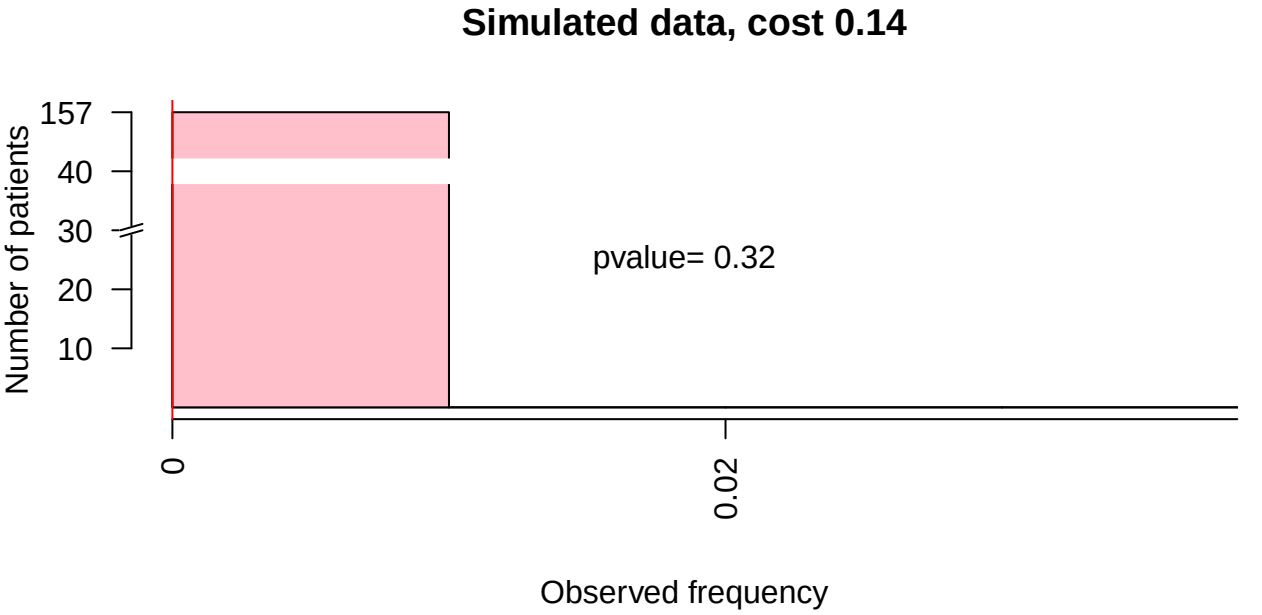

Single−SFS, site 393
Number of patients
138
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
Observed frequency

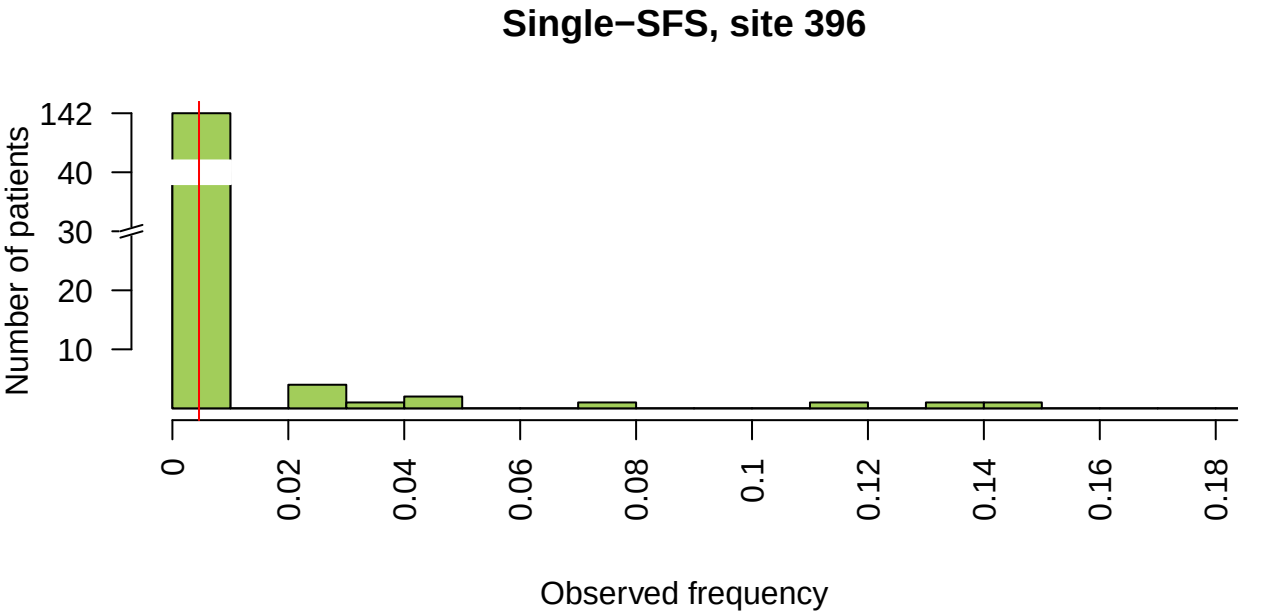

Simulated data, cost 0.0048
Number of patients
141
40
30
20
10
pvalue= 0.474
0
0.02
0.04
0.06
0.08
0.1
Observed frequency

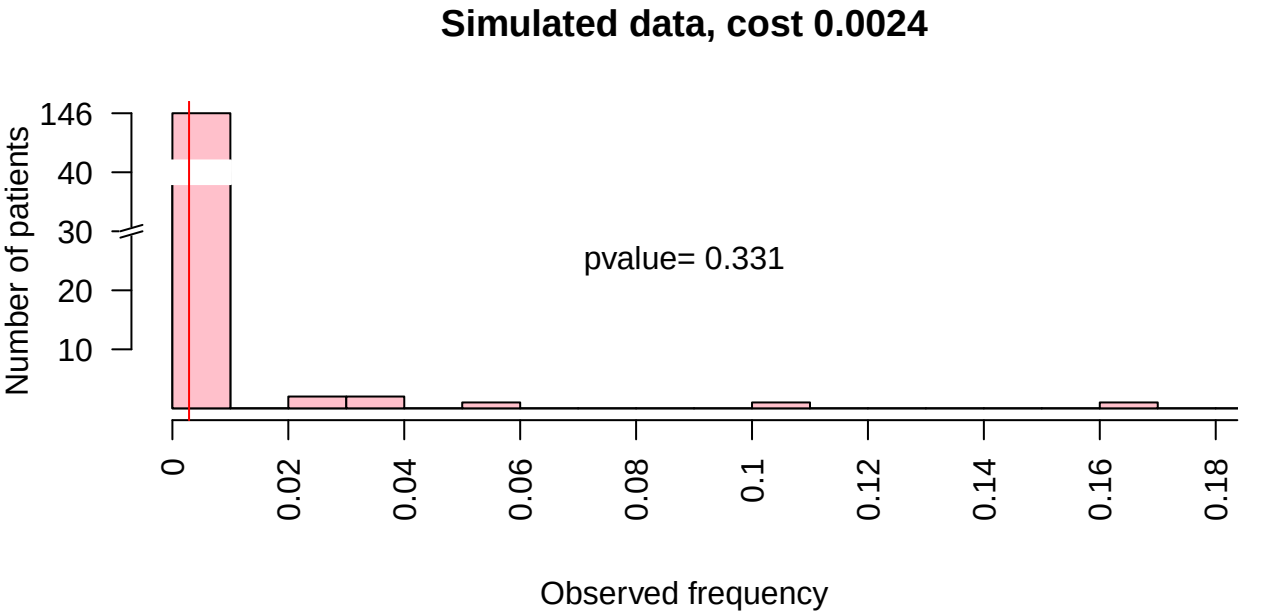

Single−SFS, site 394
Number of patients
155
40
30
20
10
0
0.02
0.04
0.06
Observed frequency

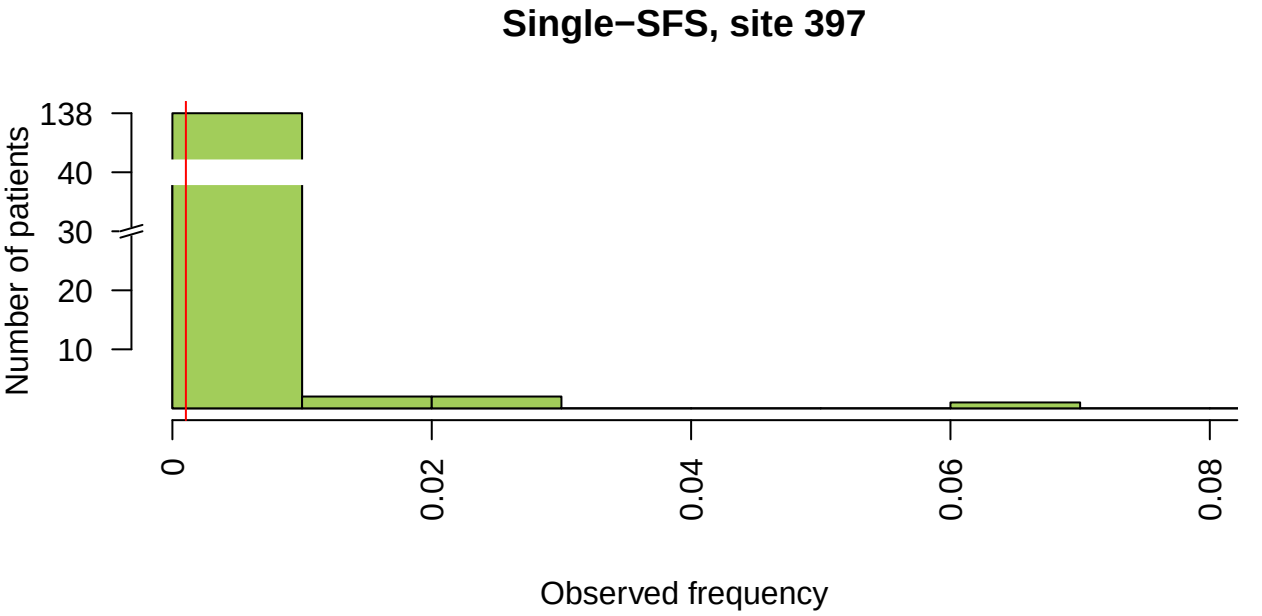

Simulated data, cost 0.171
Number of patients
156
40
30
20
10
pvalue= 0.32
0
0.02
0.04
0.06
Observed frequency

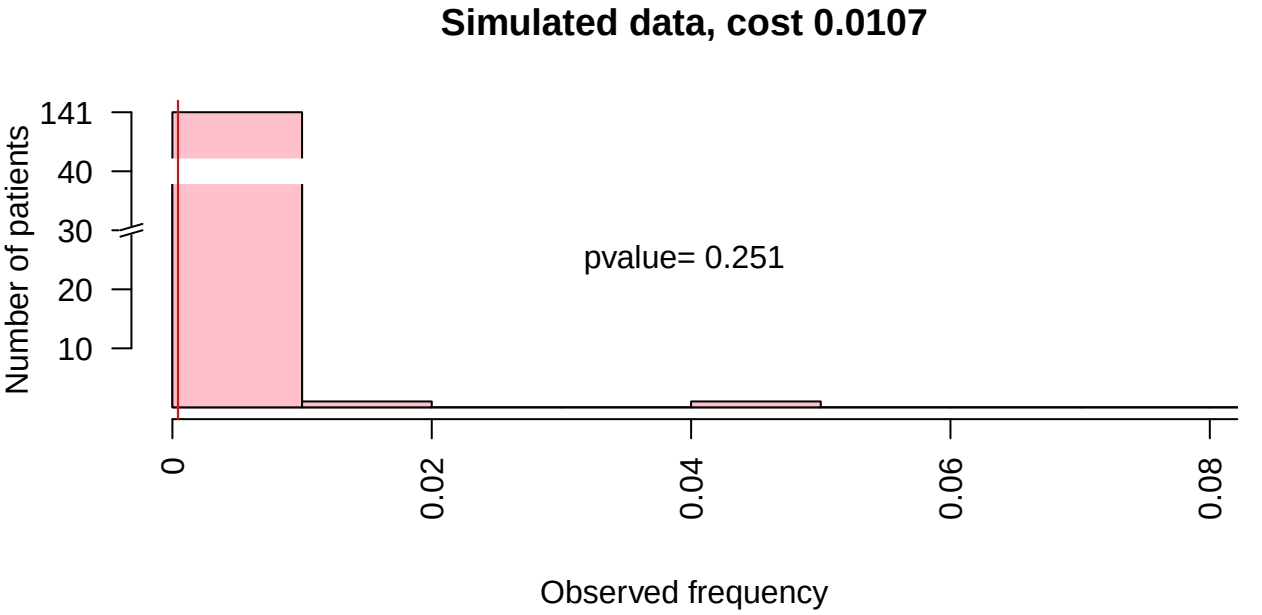

Single−SFS, site 395
Number of patients
156
40
30
20
10
0
0.02
Observed frequency

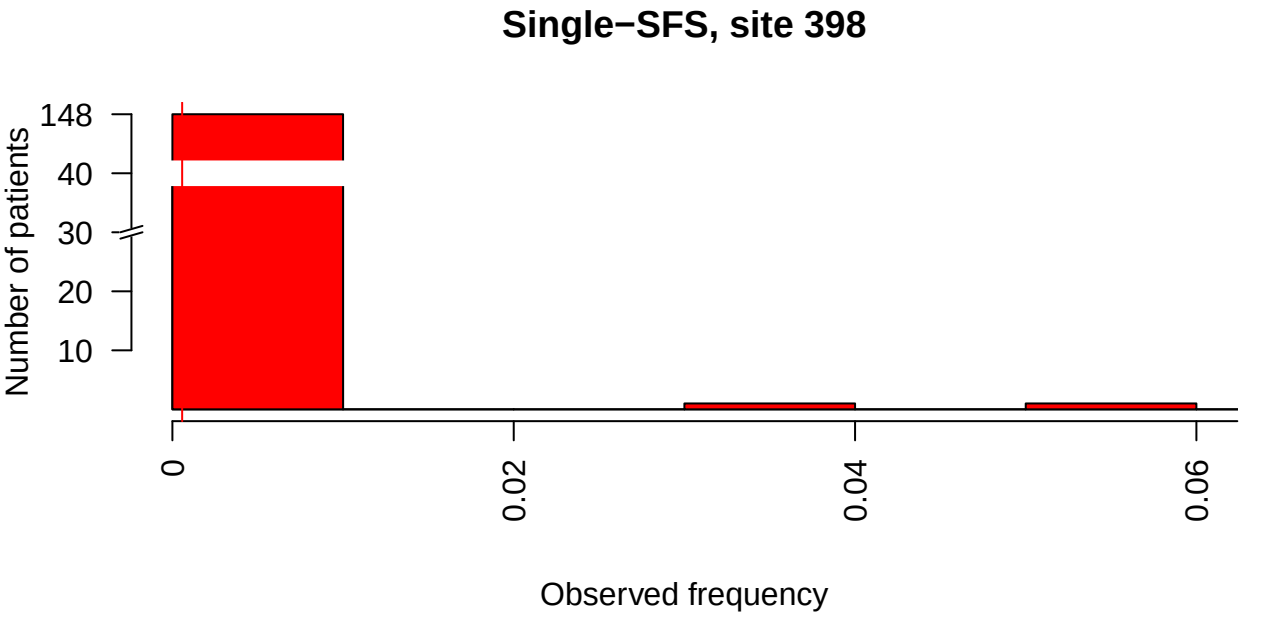

Simulated data, cost 0.14
Number of patients
157
40
30
20
10
pvalue= 0.32
0
0.02
Observed frequency

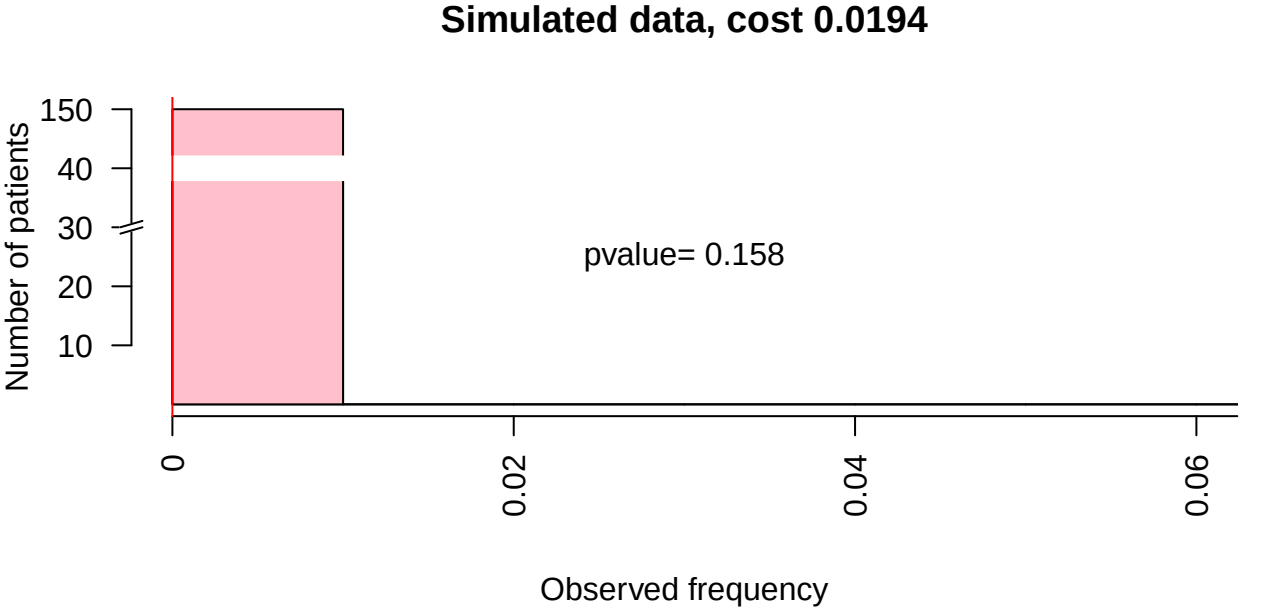

Single−SFS, site 396
Number of patients
142
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
Observed frequency

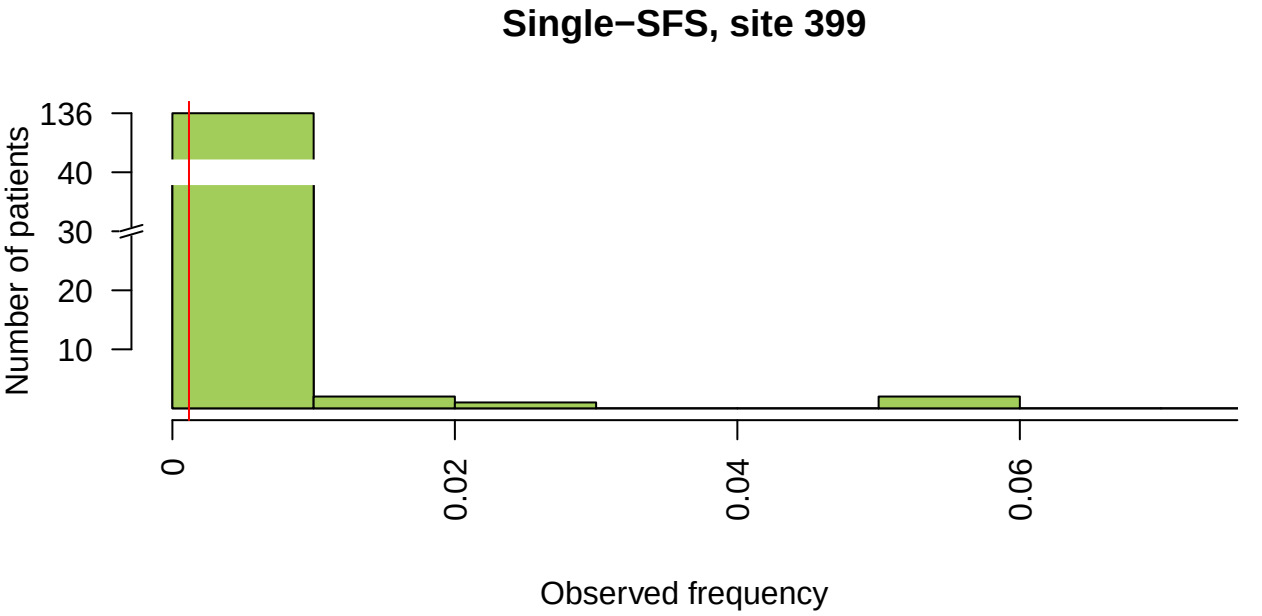

Simulated data, cost 0.0024
Number of patients
146
40
30
20
10
pvalue= 0.331
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
Observed frequency

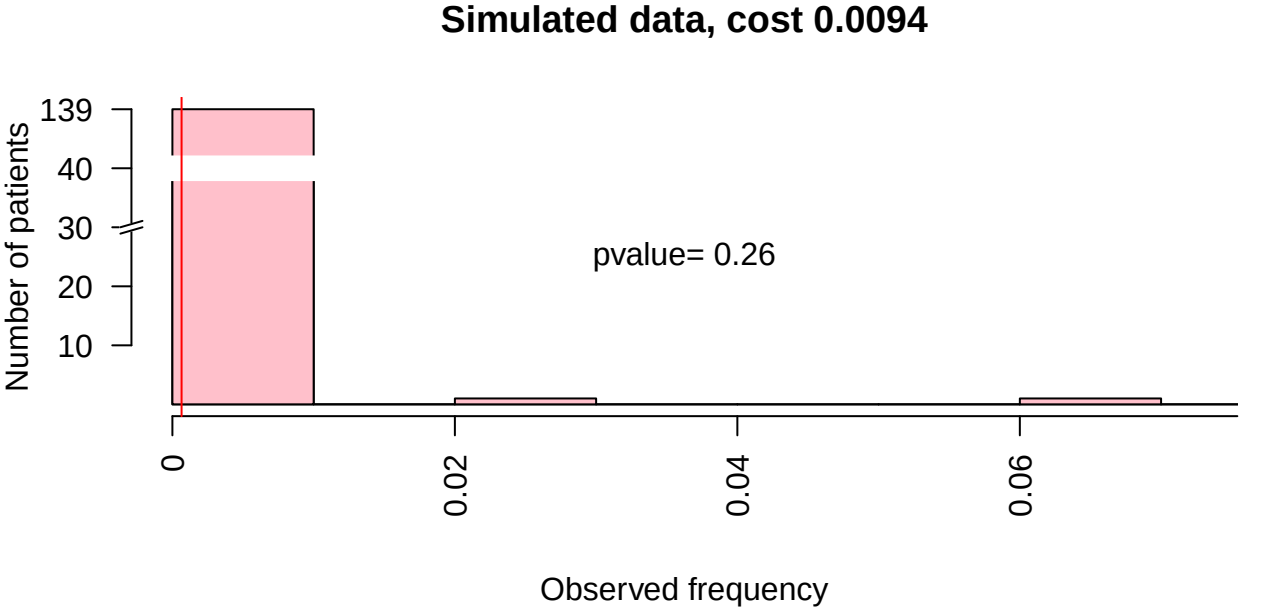

Single−SFS, site 397
Number of patients
138
40
30
20
10
0
0.02
0.04
0.06
0.08
Observed frequency

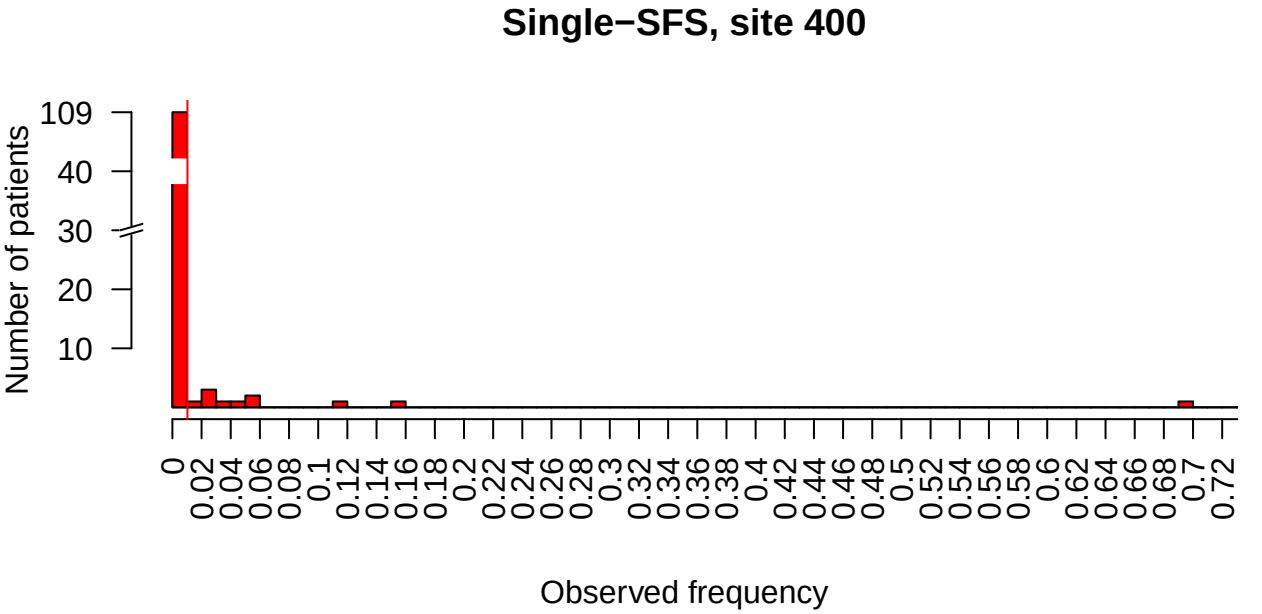

Simulated data, cost 0.0107
Number of patients
141
40
30
20
10
pvalue= 0.251
0
0.02
0.04
0.06
0.08
Observed frequency

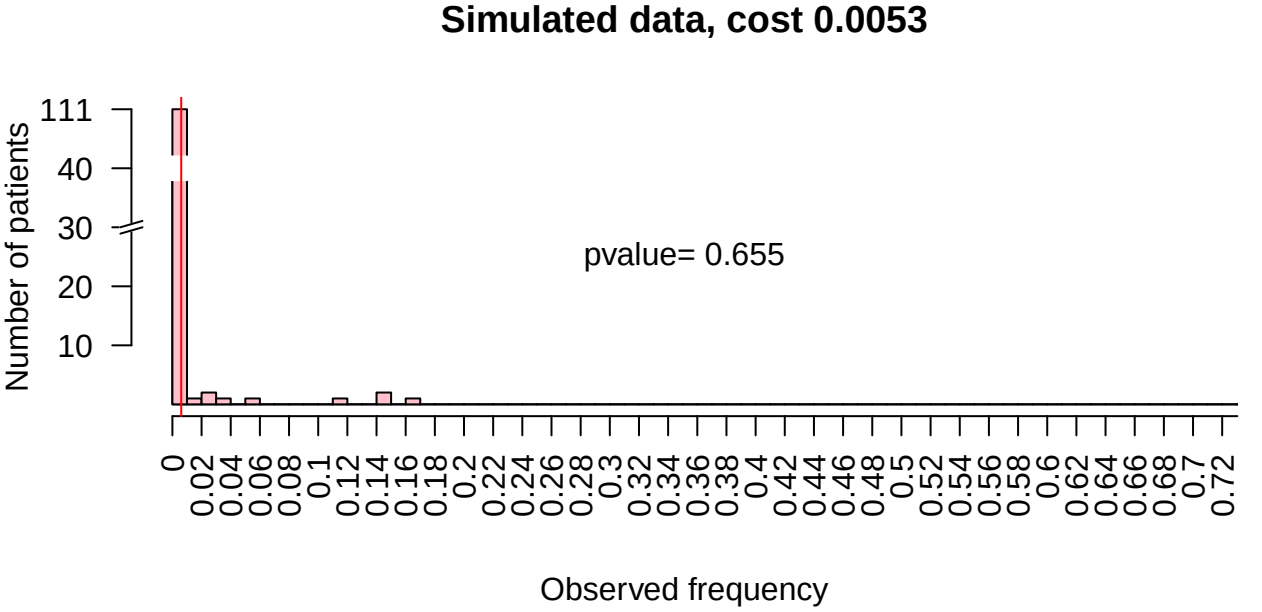

Single−SFS, site 398
Number of patients
148
40
30
20
10
0
0.02
0.04
0.06
Observed frequency

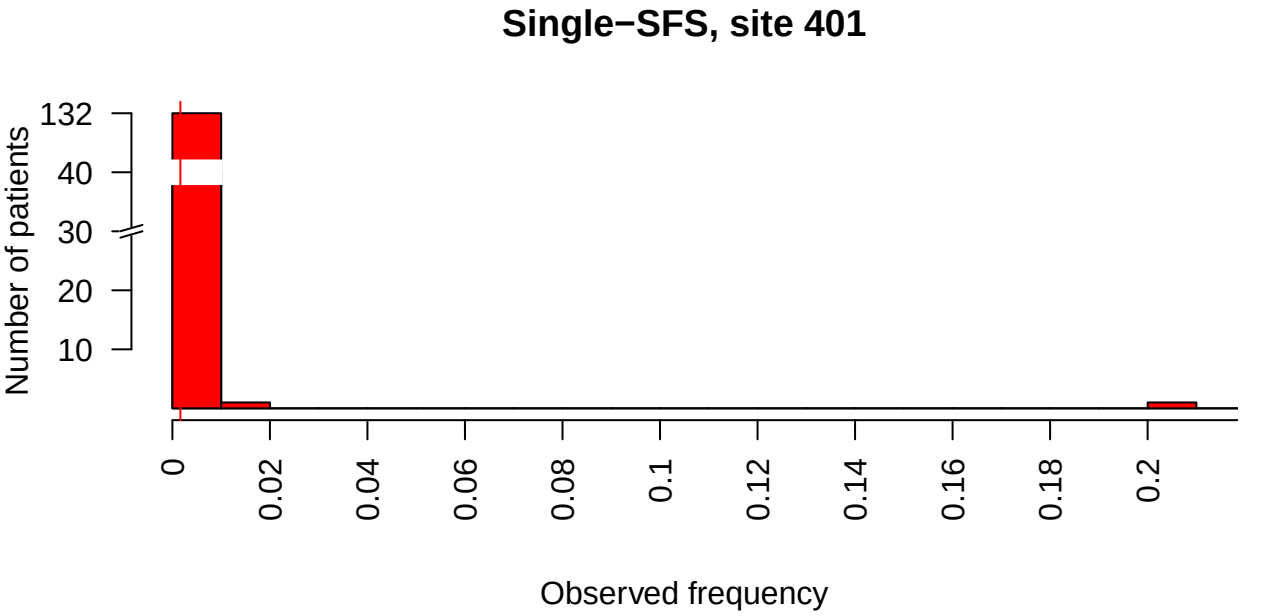

Simulated data, cost 0.0194
Number of patients
150
40
30
20
10
pvalue= 0.158
0
0.02
0.04
0.06
Observed frequency

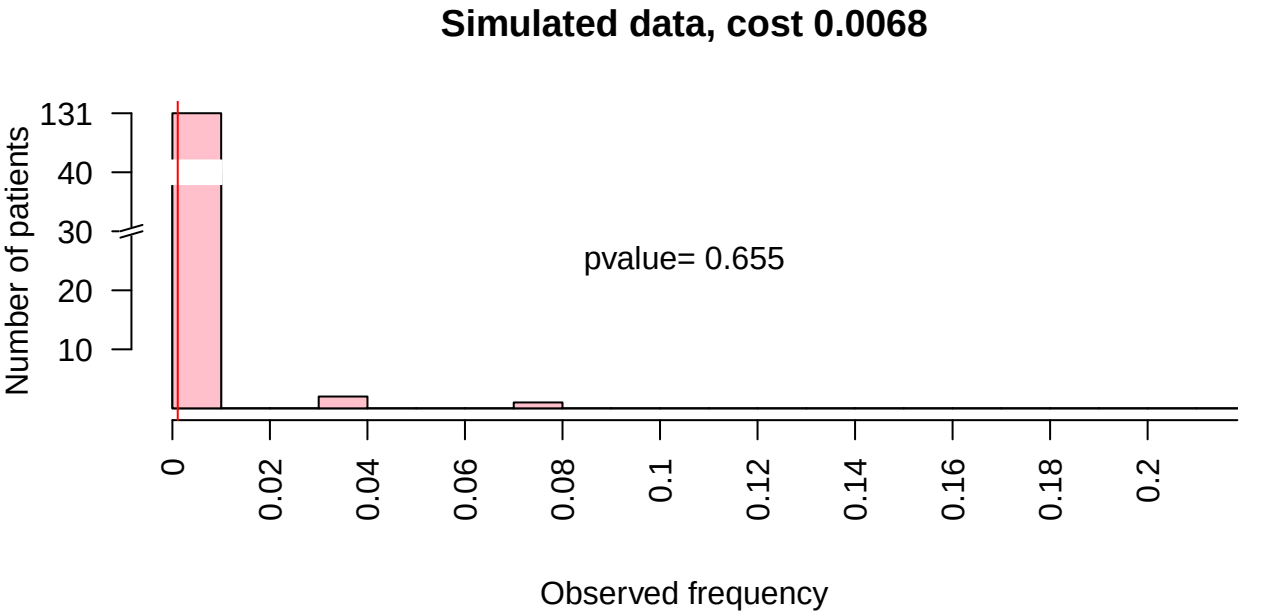

Single−SFS, site 399
Number of patients
136
40
30
20
10
0
0.02
0.04
0.06
Observed frequency

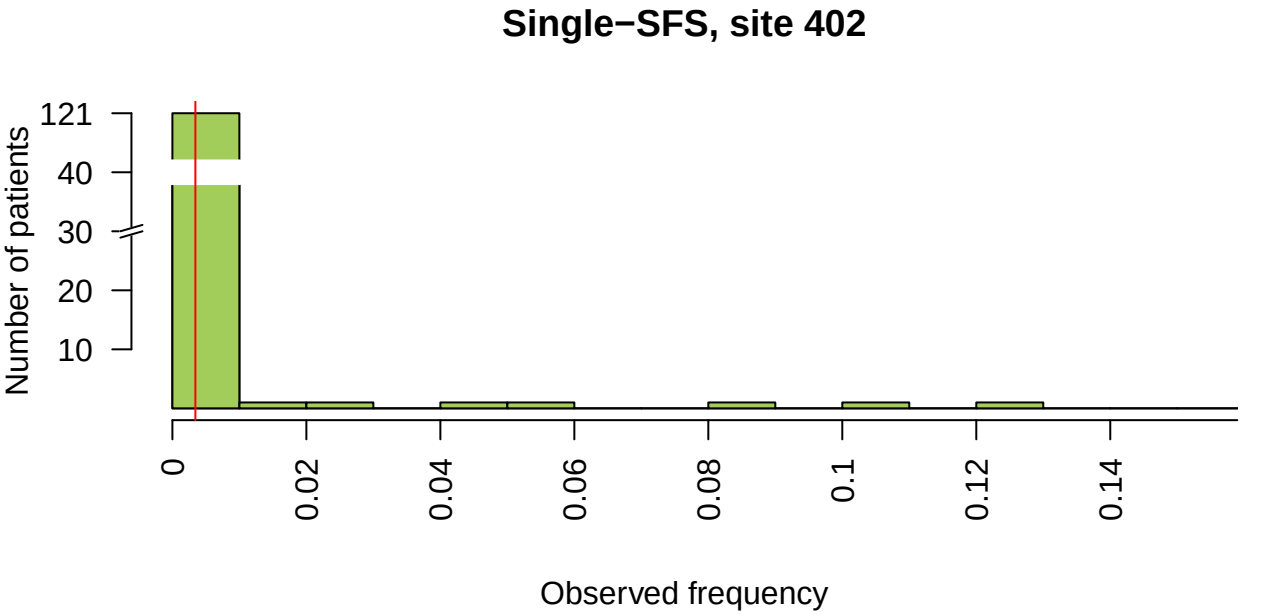

Simulated data, cost 0.0094
Number of patients
139
40
30
20
10
pvalue= 0.26
0
0.02
0.04
0.06
Observed frequency

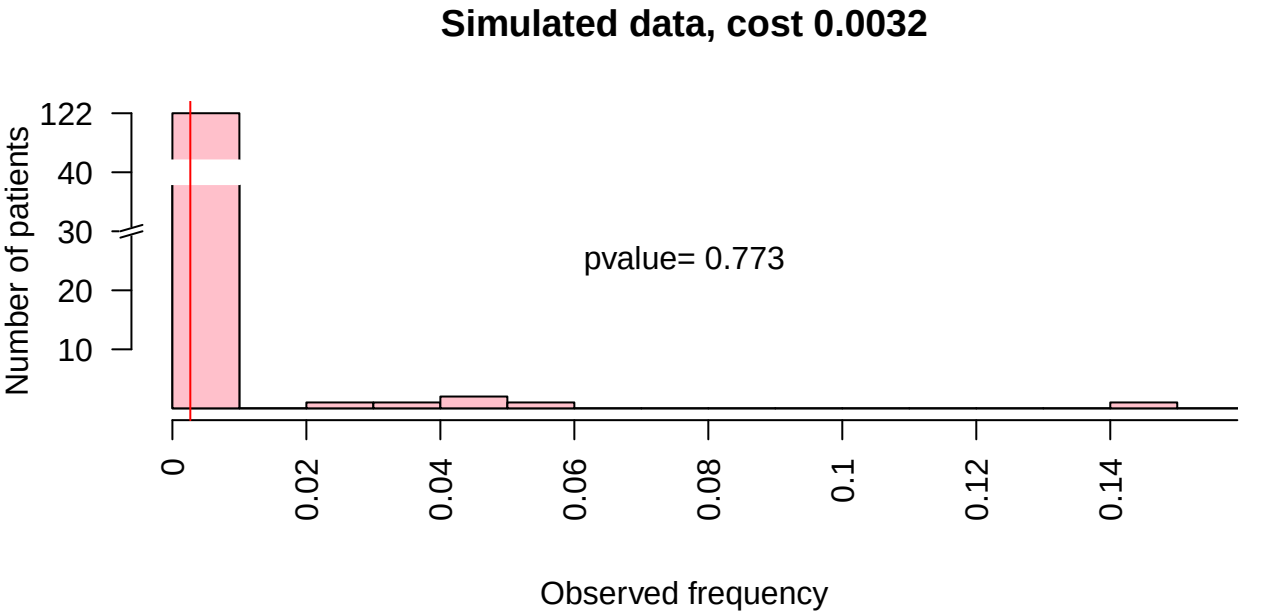

Single−SFS, site 400
Number of patients
109
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
0.24
0.26
0.28
0.3
0.32
0.34
0.36
0.38
0.4
0.42
0.44
0.46
0.48
0.5
0.52
0.54
0.56
0.58
0.6
0.62
0.64
0.66
0.68
0.7
0.72
Observed frequency

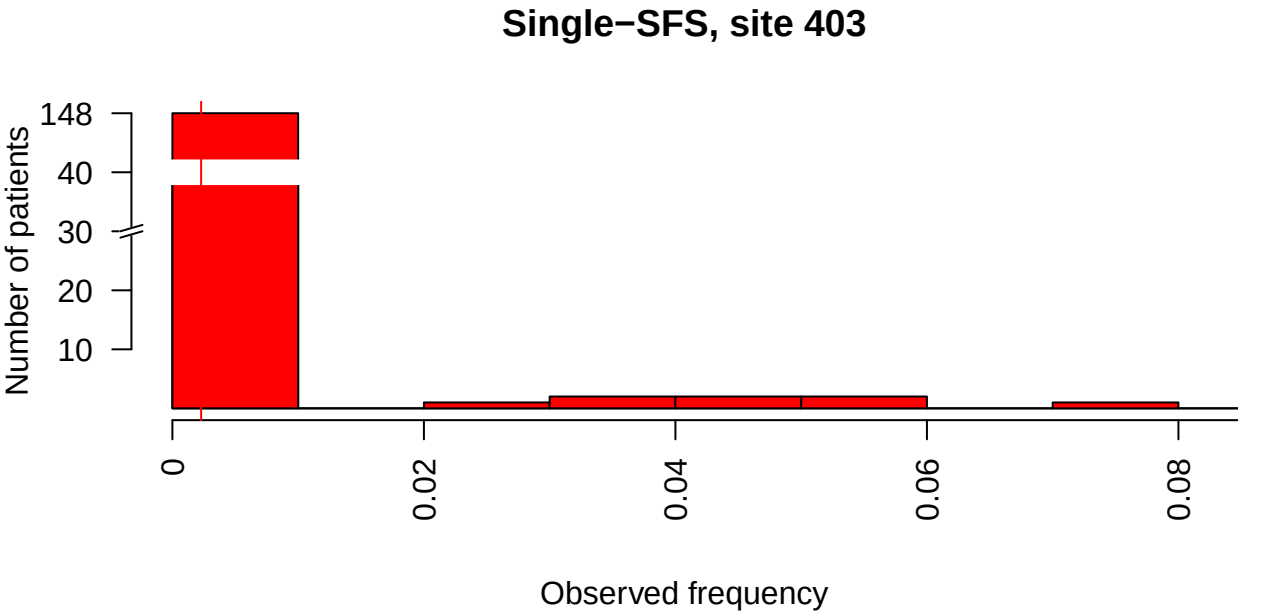

Simulated data, cost 0.0053
Number of patients
111
40
30
20
10
pvalue= 0.655
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
0.24
0.26
0.28
0.3
0.32
0.34
0.36
0.38
0.4
0.42
0.44
0.46
0.48
0.5
0.52
0.54
0.56
0.58
0.6
0.62
0.64
0.66
0.68
0.7
0.72
Observed frequency

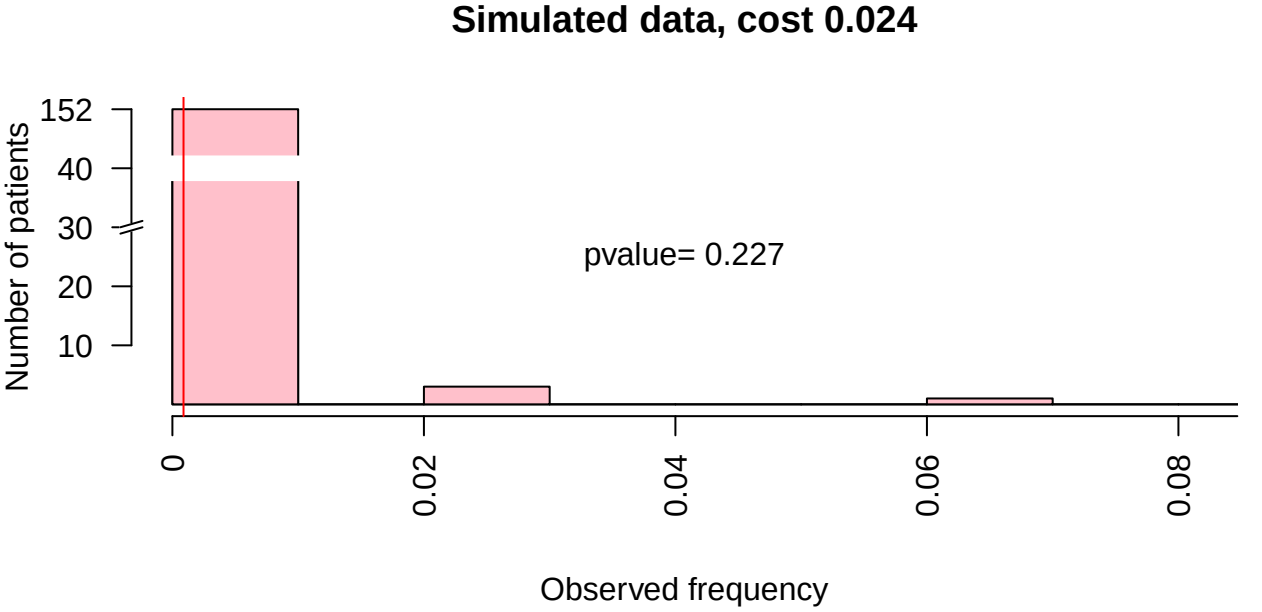

Single−SFS, site 401
Number of patients
132
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
Observed frequency

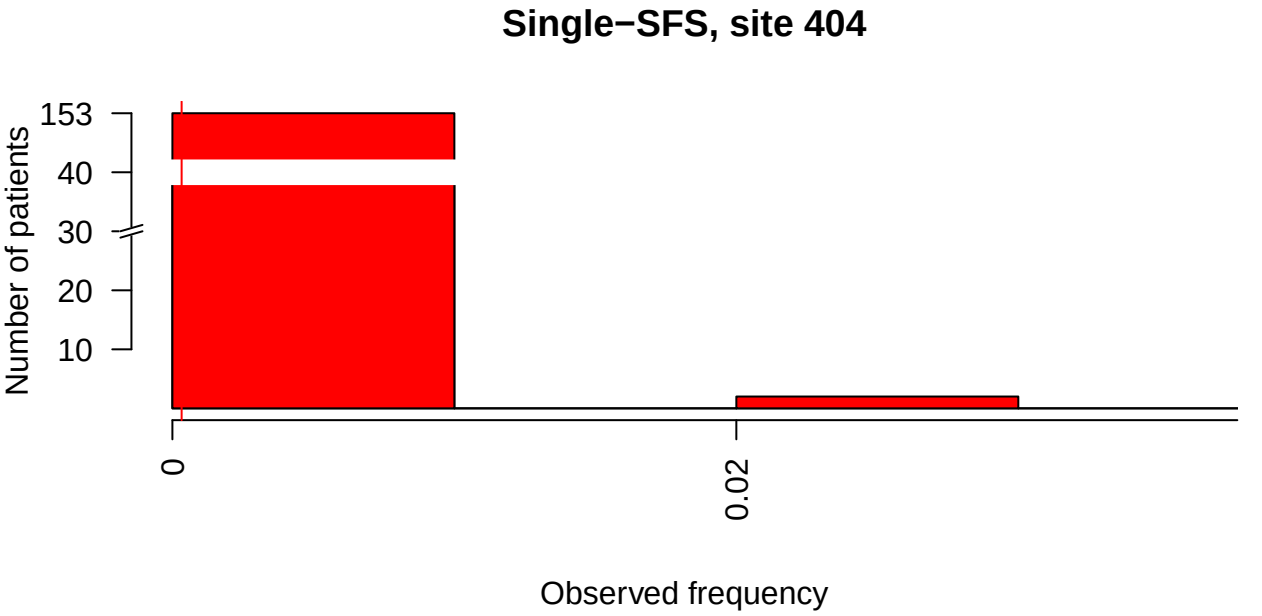

Simulated data, cost 0.0068
Number of patients
131
40
30
20
10
pvalue= 0.655
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
Observed frequency

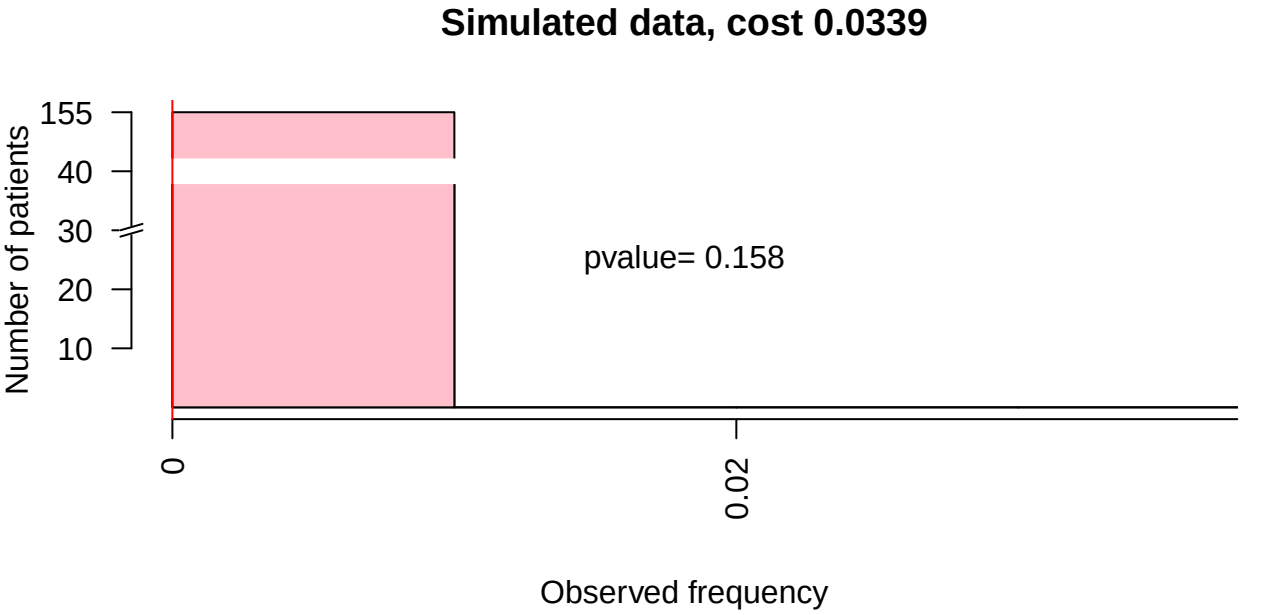

Single−SFS, site 402
Number of patients
121
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
Observed frequency

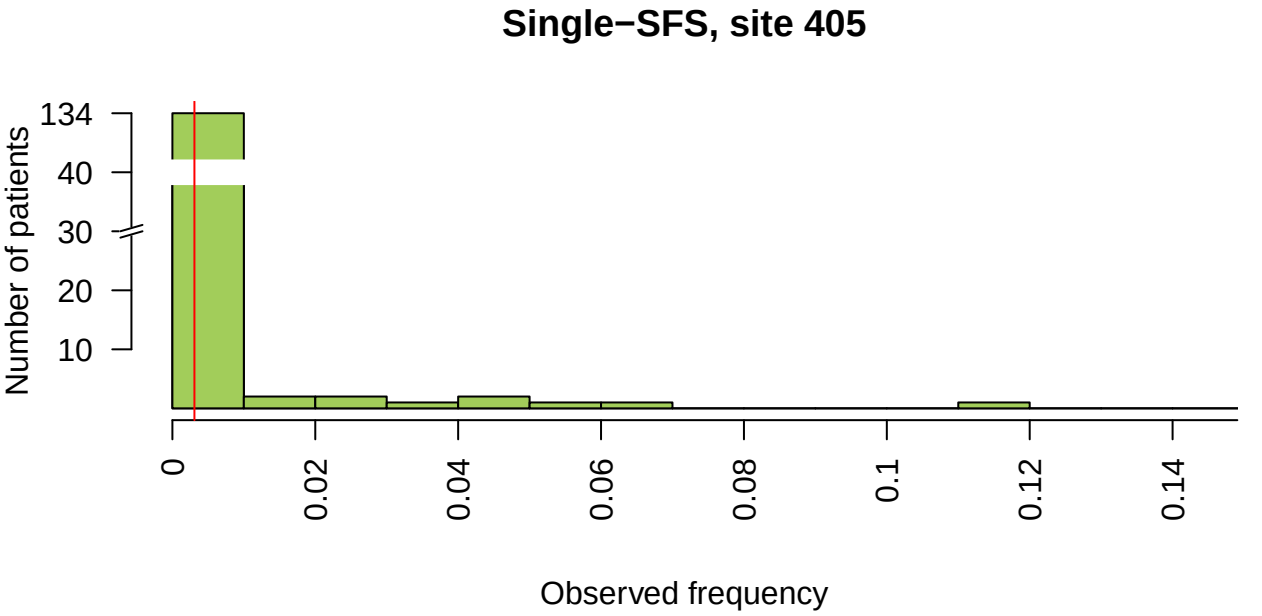

Simulated data, cost 0.0032
Number of patients
122
40
30
20
10
pvalue= 0.773
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
Observed frequency

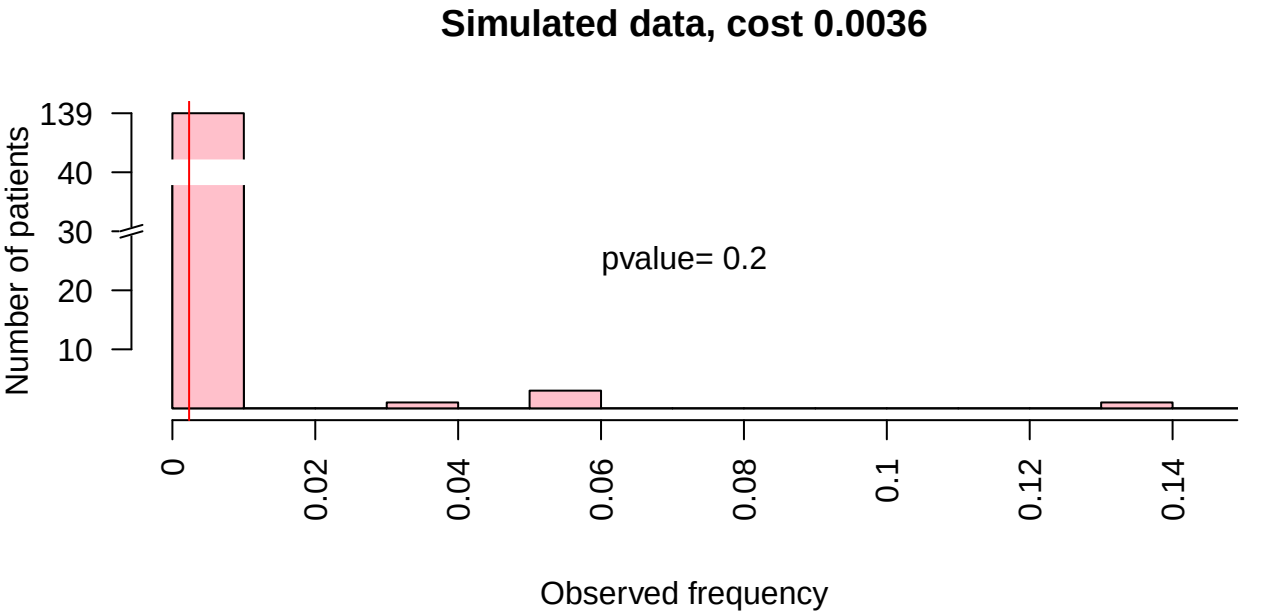

Single−SFS, site 403
Number of patients
148
40
30
20
10
0
0.02
0.04
0.06
0.08
Observed frequency

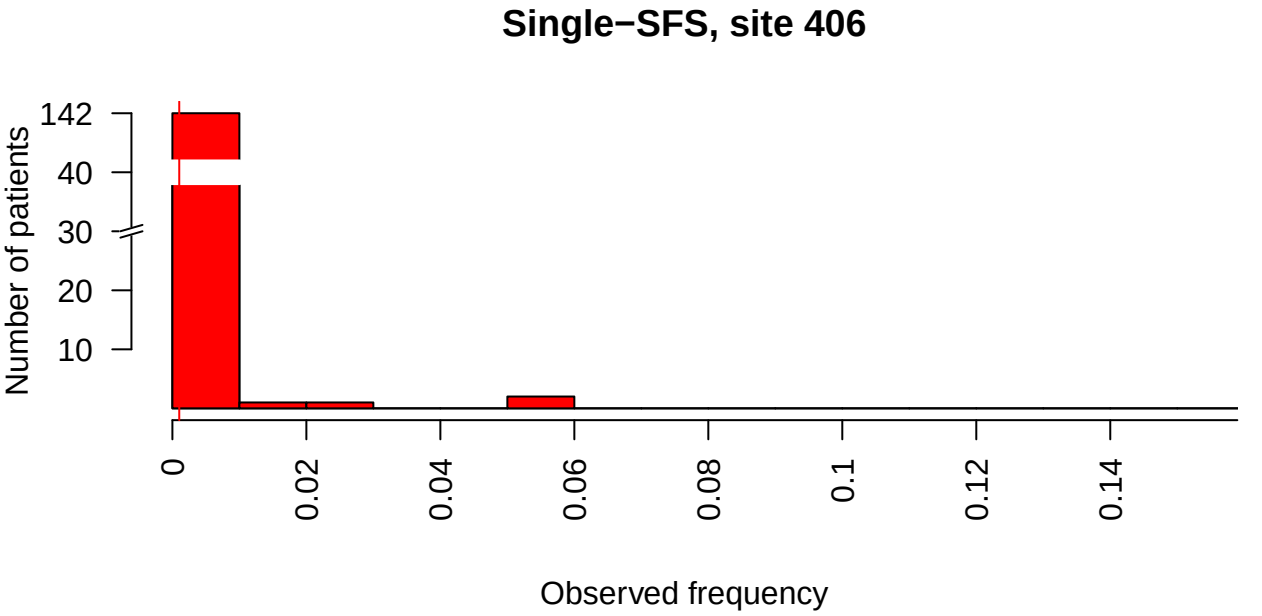

Simulated data, cost 0.024
Number of patients
152
40
30
20
10
pvalue= 0.227
0
0.02
0.04
0.06
0.08
Observed frequency

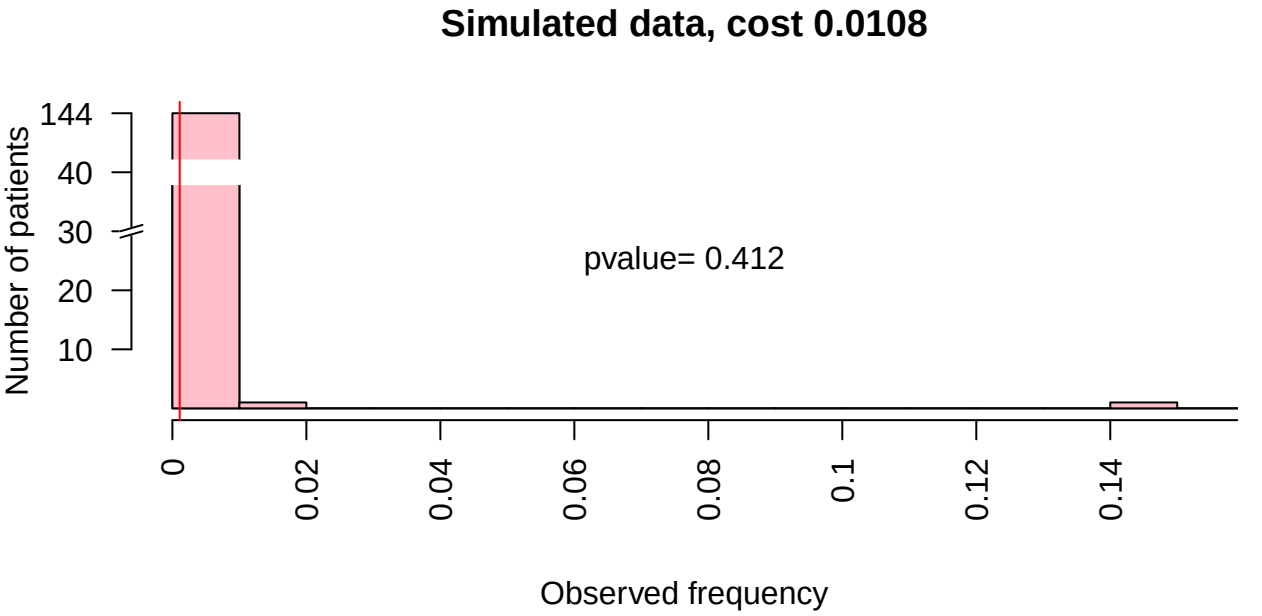

Single−SFS, site 404
Number of patients
153
40
30
20
10
0
0.02
Observed frequency

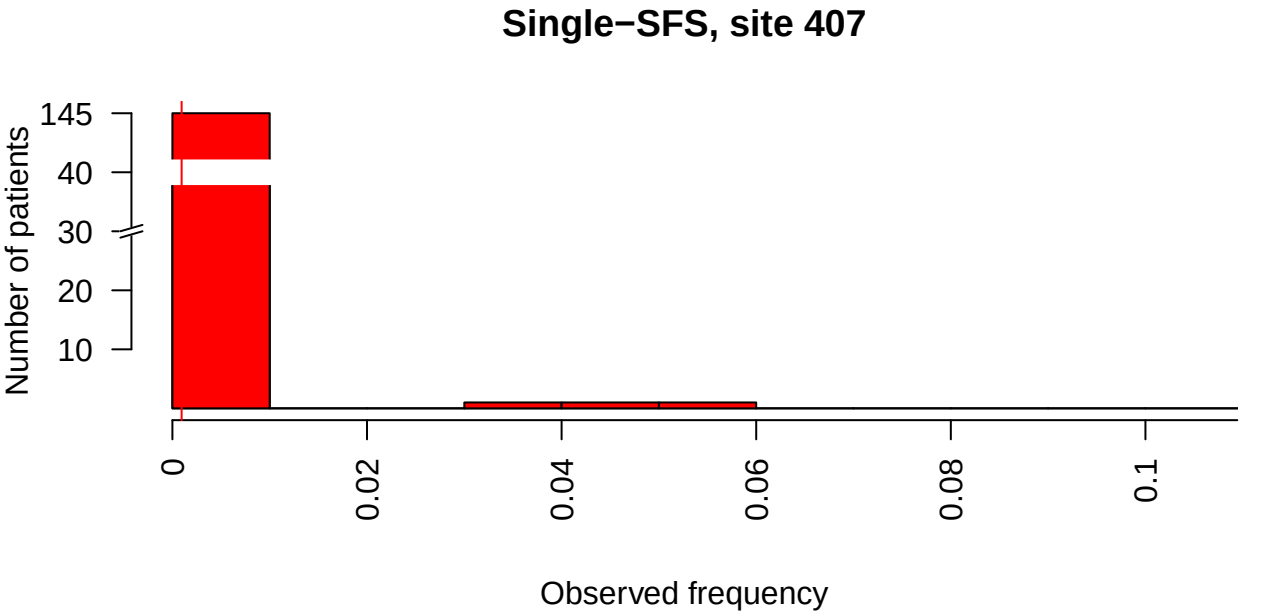

Simulated data, cost 0.0339
Number of patients
155
40
30
20
10
pvalue= 0.158
0
0.02
Observed frequency

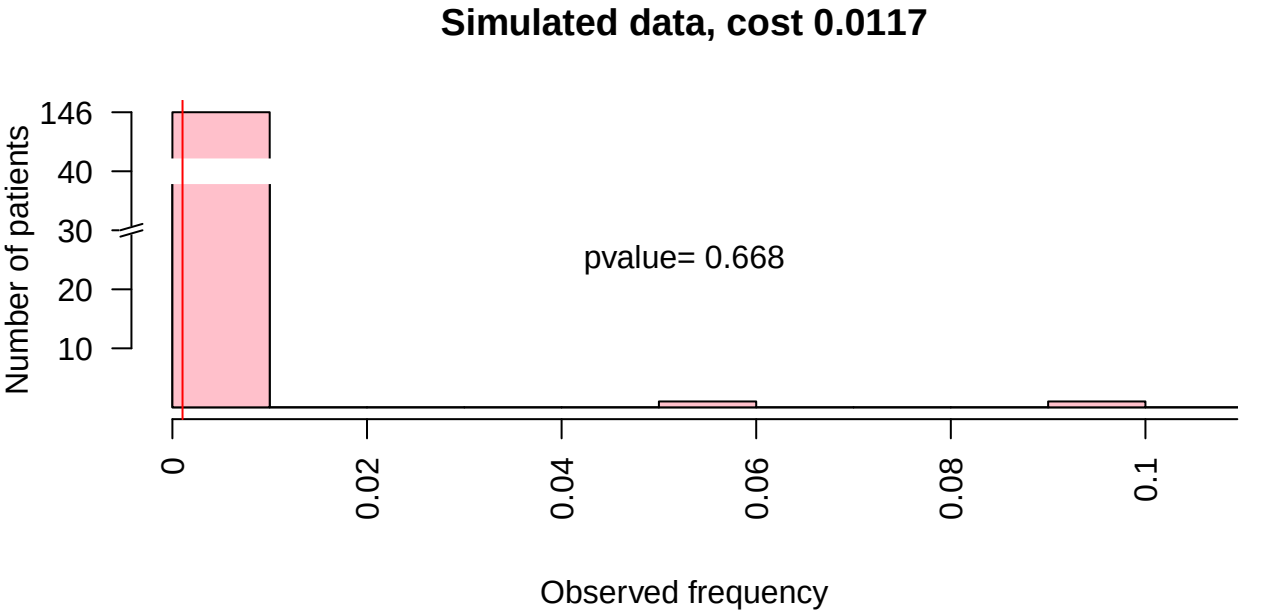

Single−SFS, site 405
Number of patients
134
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
Observed frequency

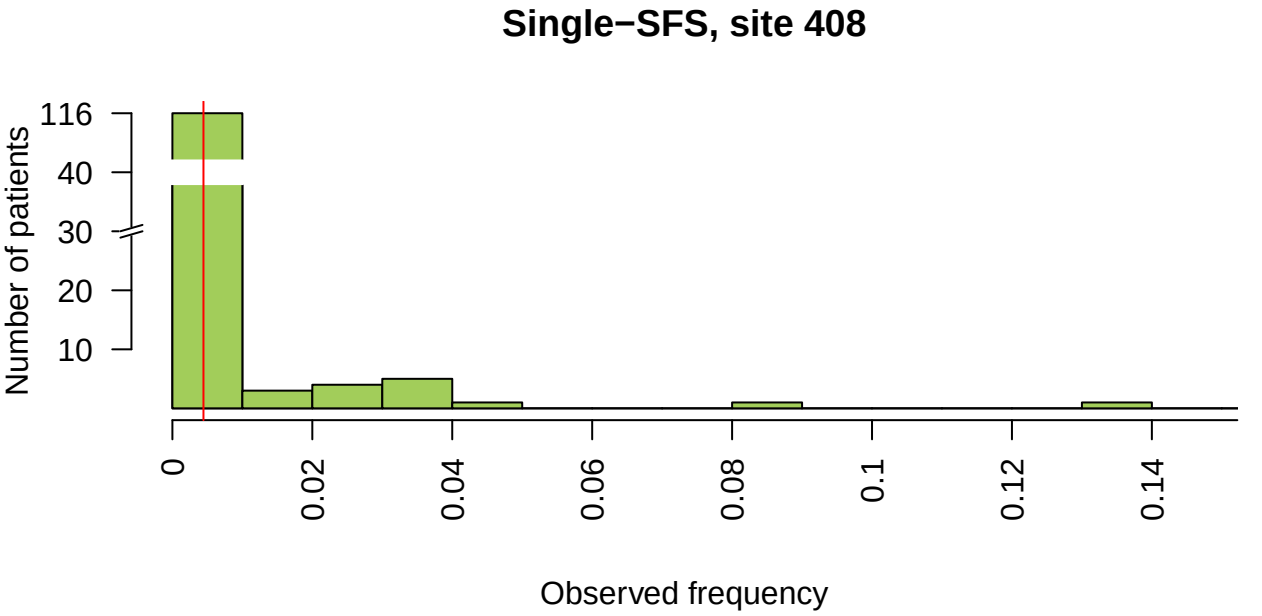

Simulated data, cost 0.0036
Number of patients
139
40
30
20
10
pvalue= 0.2
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
Observed frequency

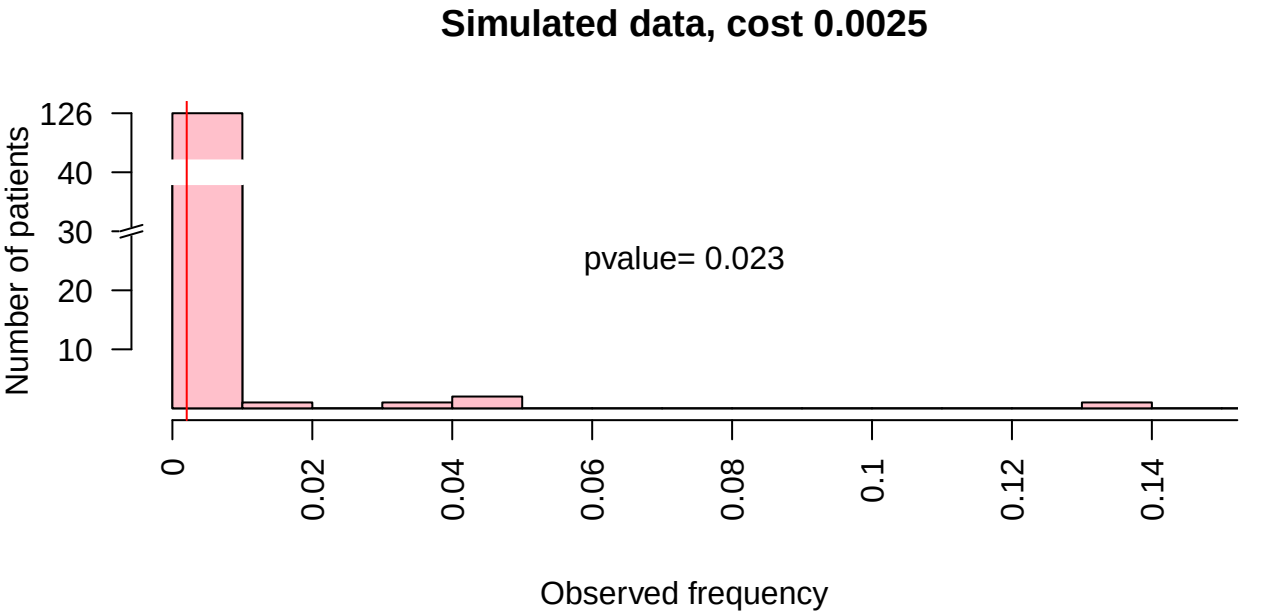

Single−SFS, site 406
Number of patients
142
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
Observed frequency

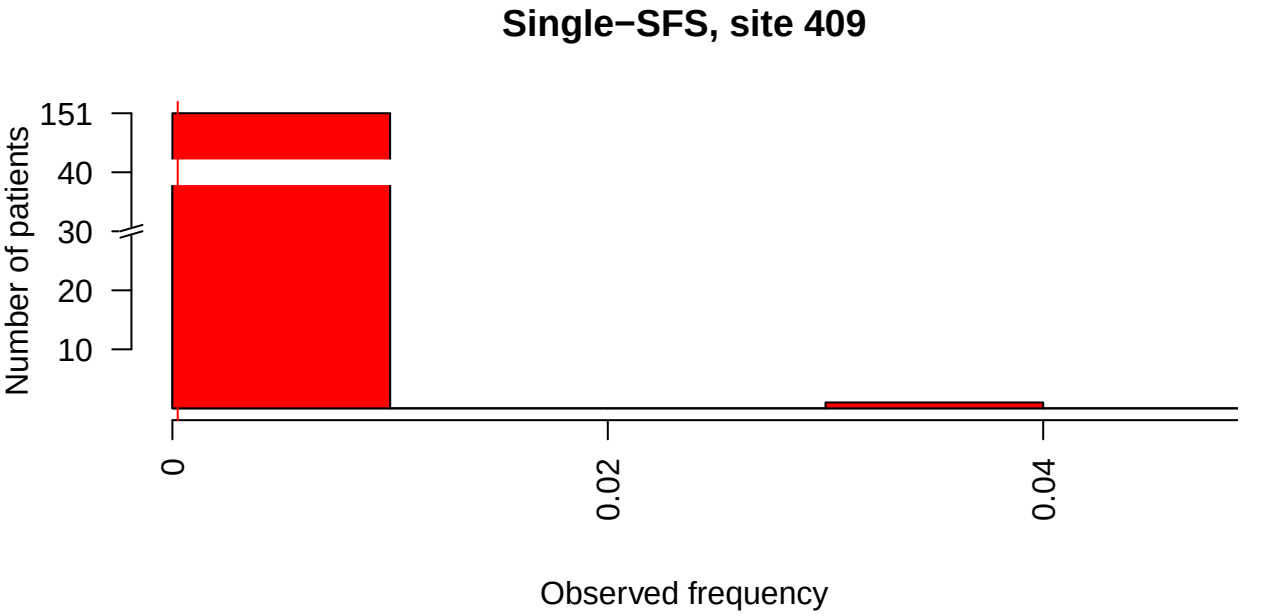

Simulated data, cost 0.0108
Number of patients
144
40
30
20
10
pvalue= 0.412
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
Observed frequency

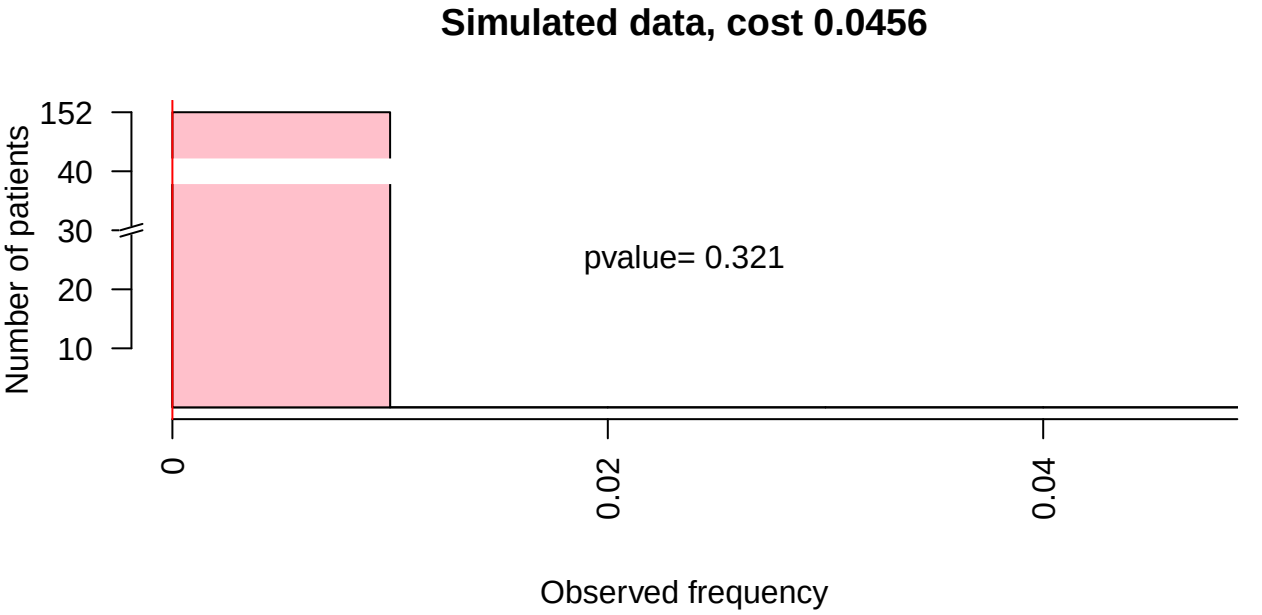

Single−SFS, site 407
Number of patients
145
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
Observed frequency

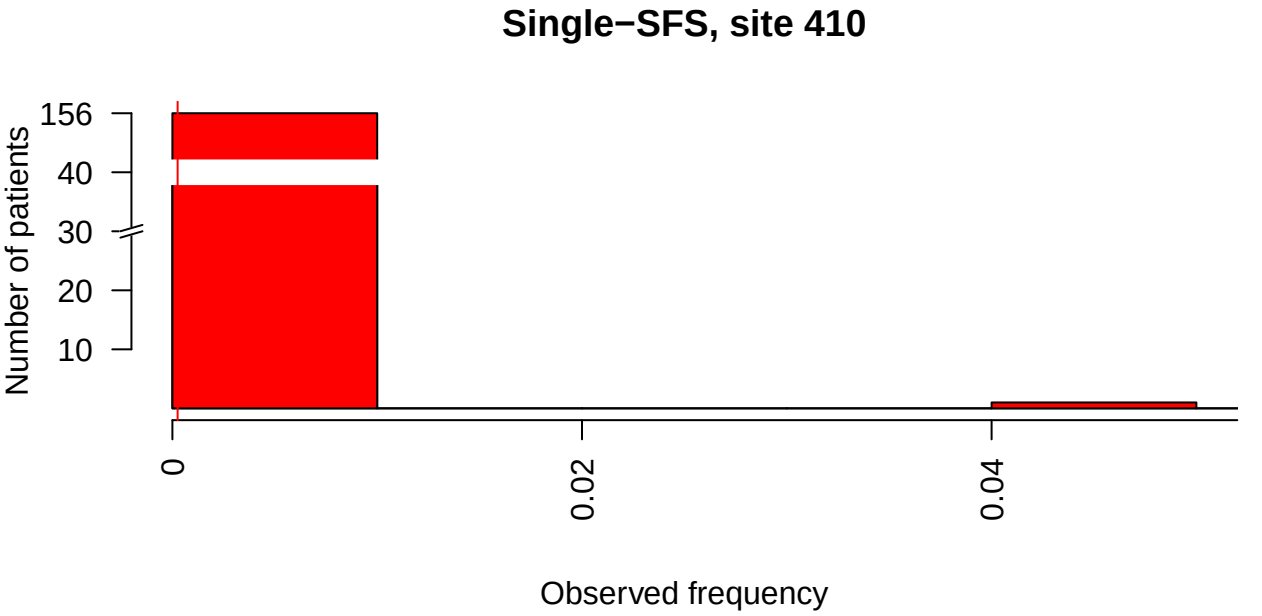

Simulated data, cost 0.0117
Number of patients
146
40
30
20
10
pvalue= 0.668
0
0.02
0.04
0.06
0.08
0.1
Observed frequency

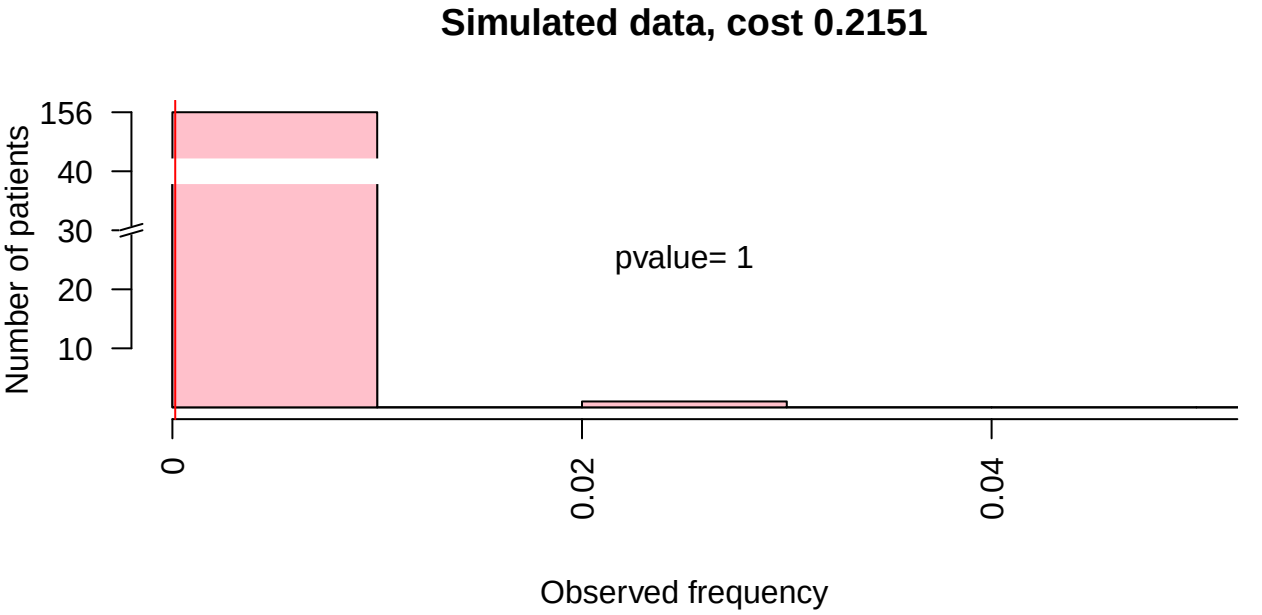

Single−SFS, site 408
Number of patients
116
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
Observed frequency

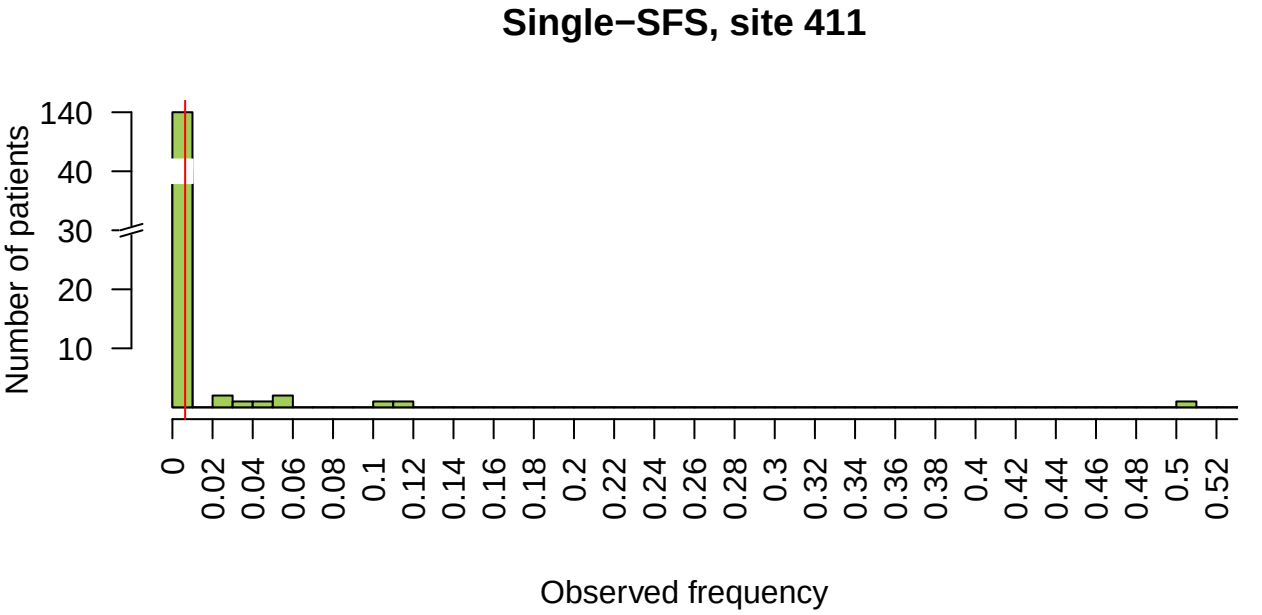

Simulated data, cost 0.0025
Number of patients
126
40
30
20
10
pvalue= 0.023
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
Observed frequency

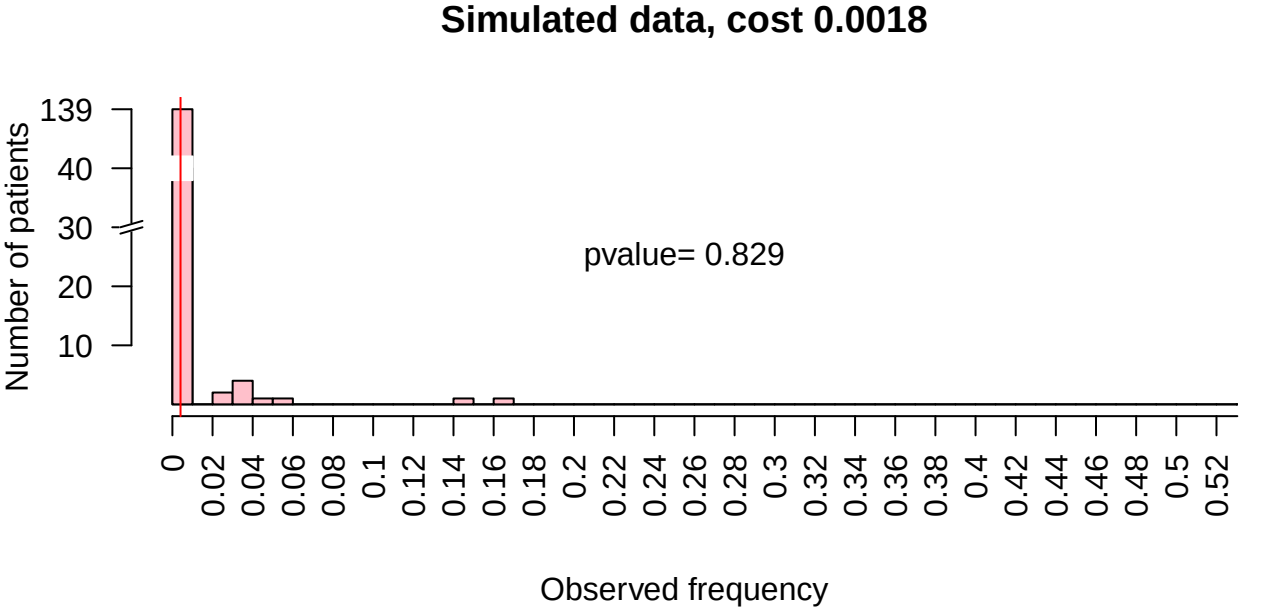

Single−SFS, site 409
Number of patients
151
40
30
20
10
0
0.02
0.04
Observed frequency

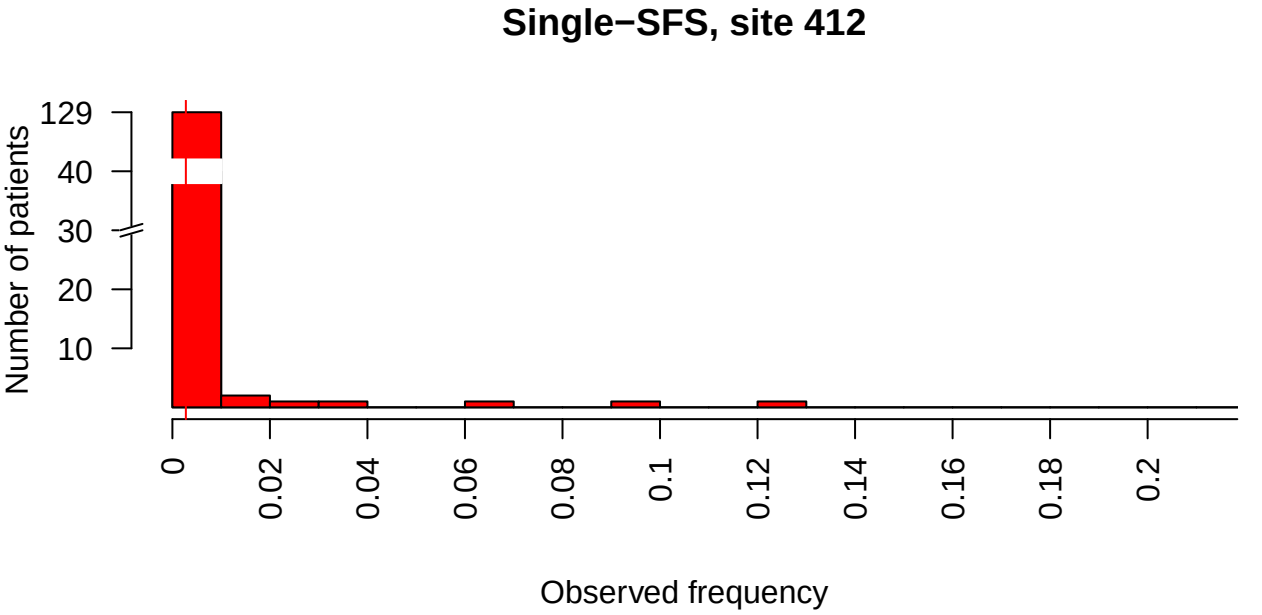

Simulated data, cost 0.0456
Number of patients
152
40
30
20
10
pvalue= 0.321
0
0.02
0.04
Observed frequency

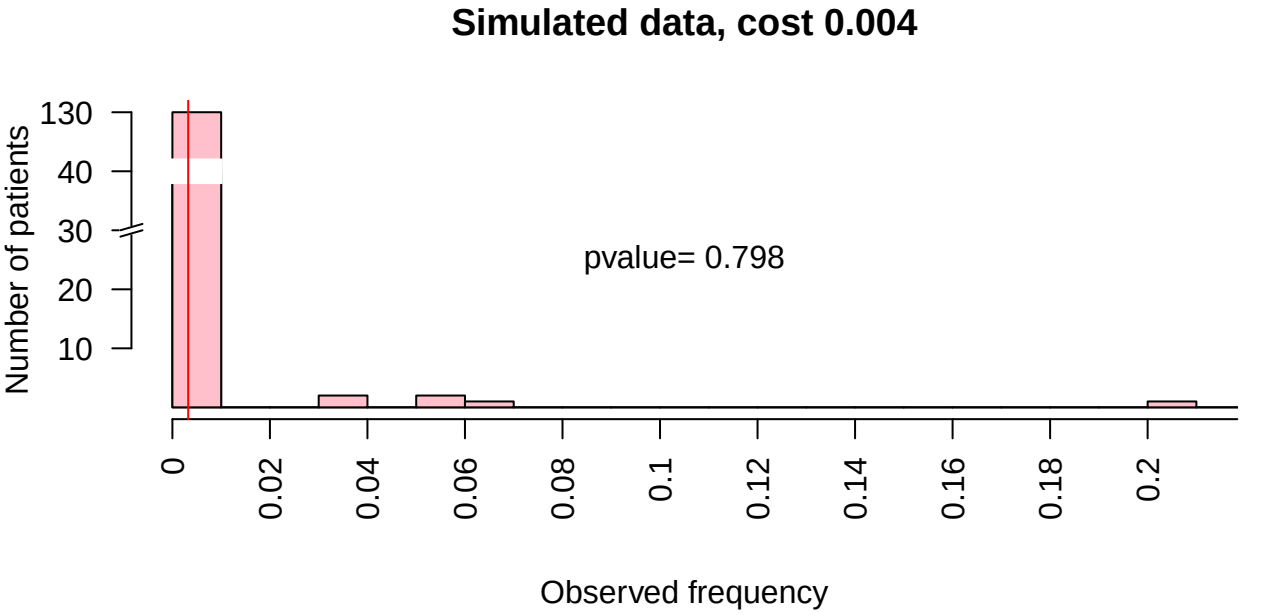

Single−SFS, site 410
Number of patients
156
40
30
20
10
0
0.02
0.04
Observed frequency

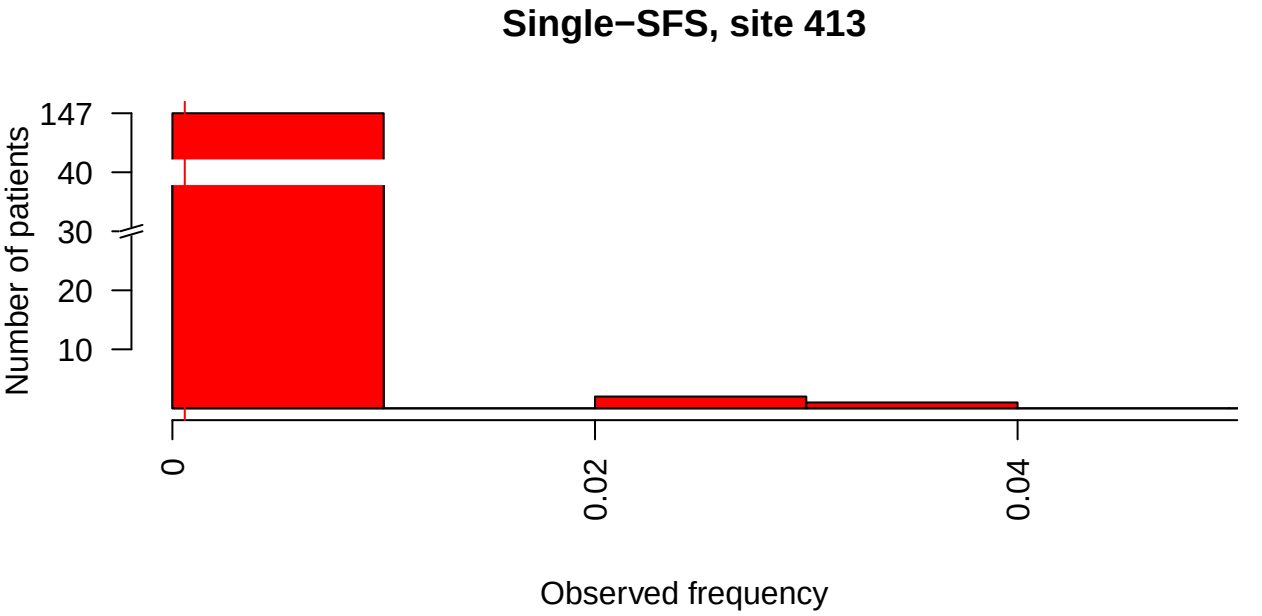

Simulated data, cost 0.2151
Number of patients
156
40
30
20
10
pvalue= 1
0
0.02
0.04
Observed frequency

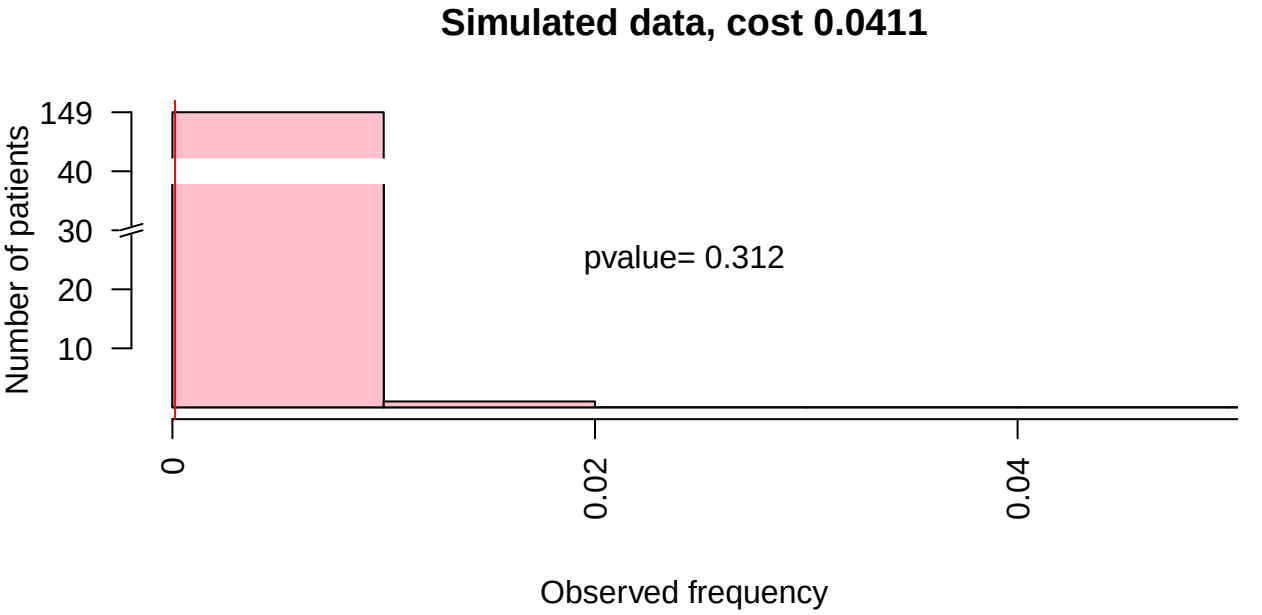

Single−SFS, site 411
Number of patients
140
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
0.24
0.26
0.28
0.3
0.32
0.34
0.36
0.38
0.4
0.42
0.44
0.46
0.48
0.5
0.52
Observed frequency

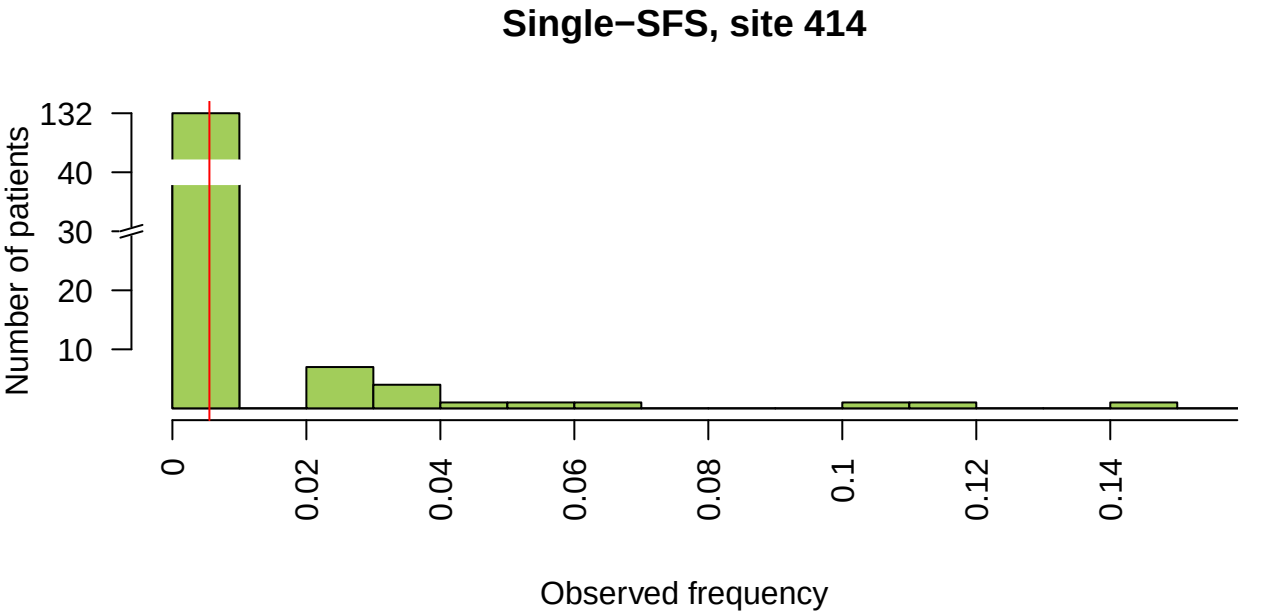

Simulated data, cost 0.0018
Number of patients
139
40
30
20
10
pvalue= 0.829
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
0.24
0.26
0.28
0.3
0.32
0.34
0.36
0.38
0.4
0.42
0.44
0.46
0.48
0.5
0.52
Observed frequency

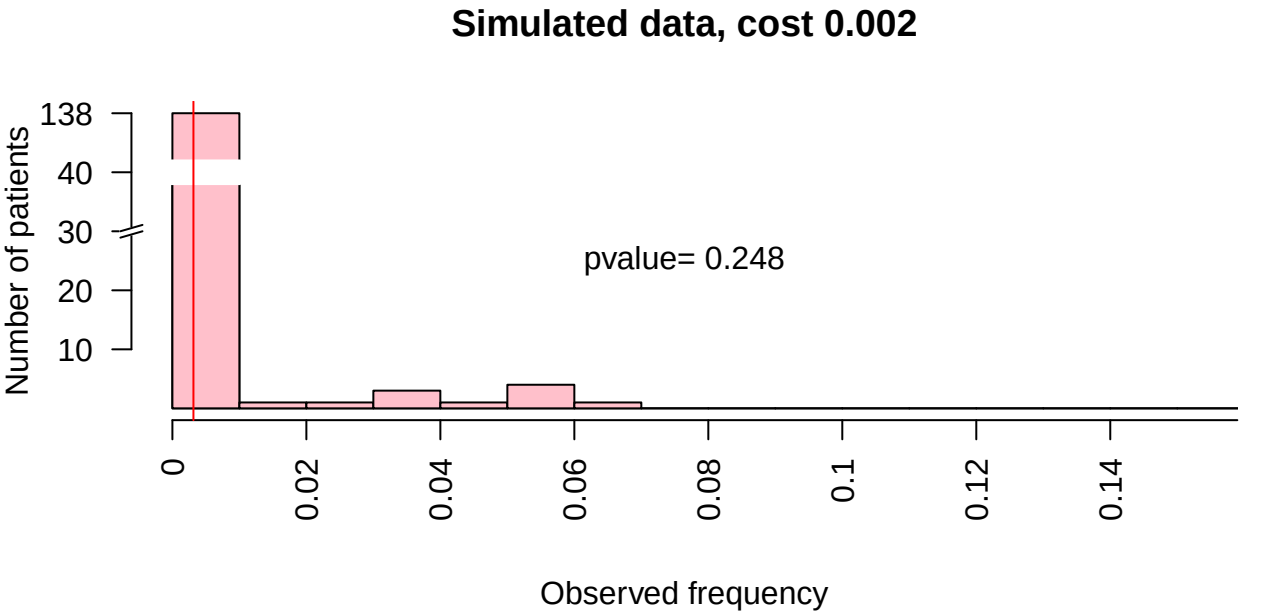

Single−SFS, site 412
Number of patients
129
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
Observed frequency

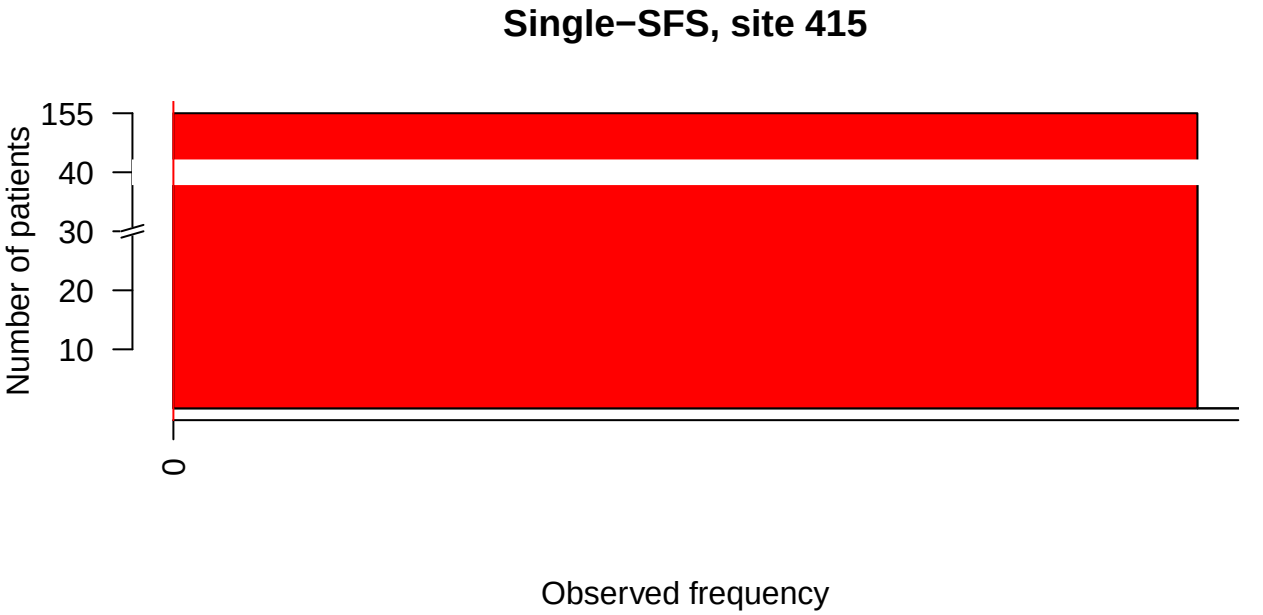

Simulated data, cost 0.004
Number of patients
130
40
30
20
10
pvalue= 0.798
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
Observed frequency

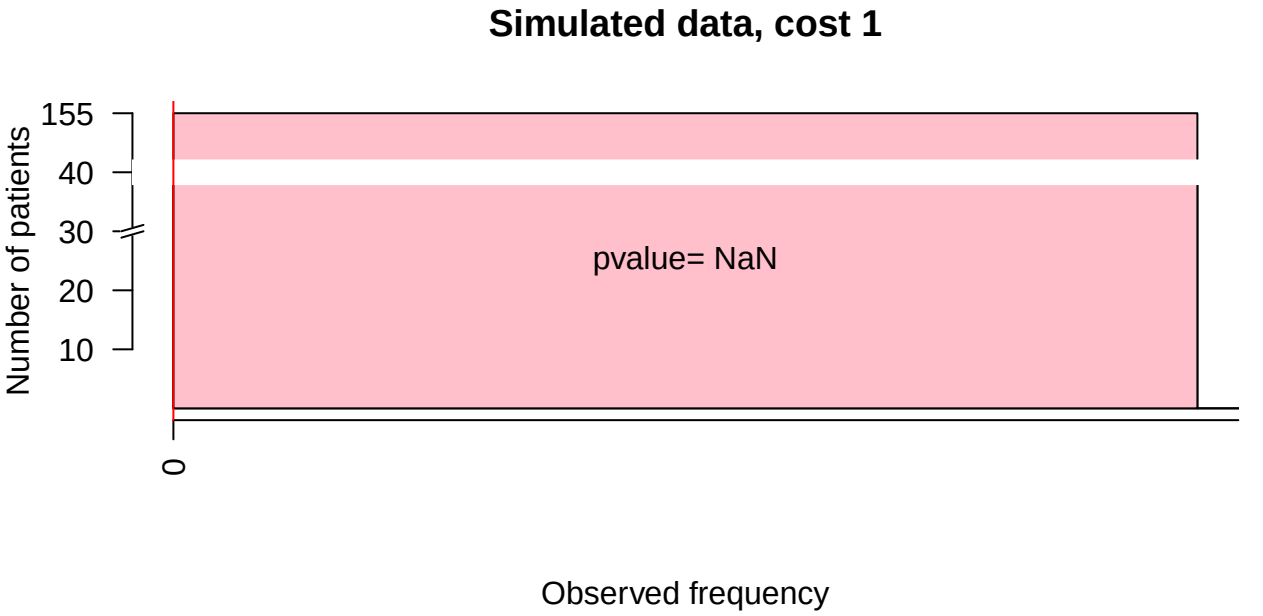

Single−SFS, site 413
Number of patients
147
40
30
20
10
0
0.02
0.04
Observed frequency

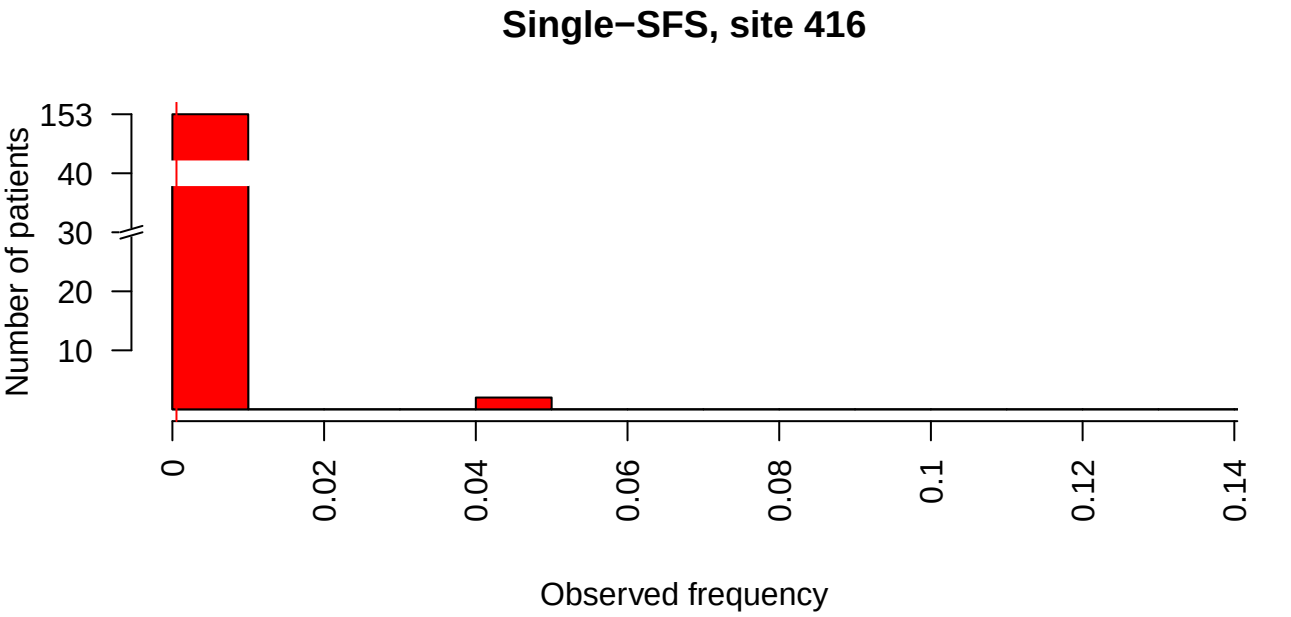

Simulated data, cost 0.0411
Number of patients
149
40
30
20
10
pvalue= 0.312
0
0.02
0.04
Observed frequency

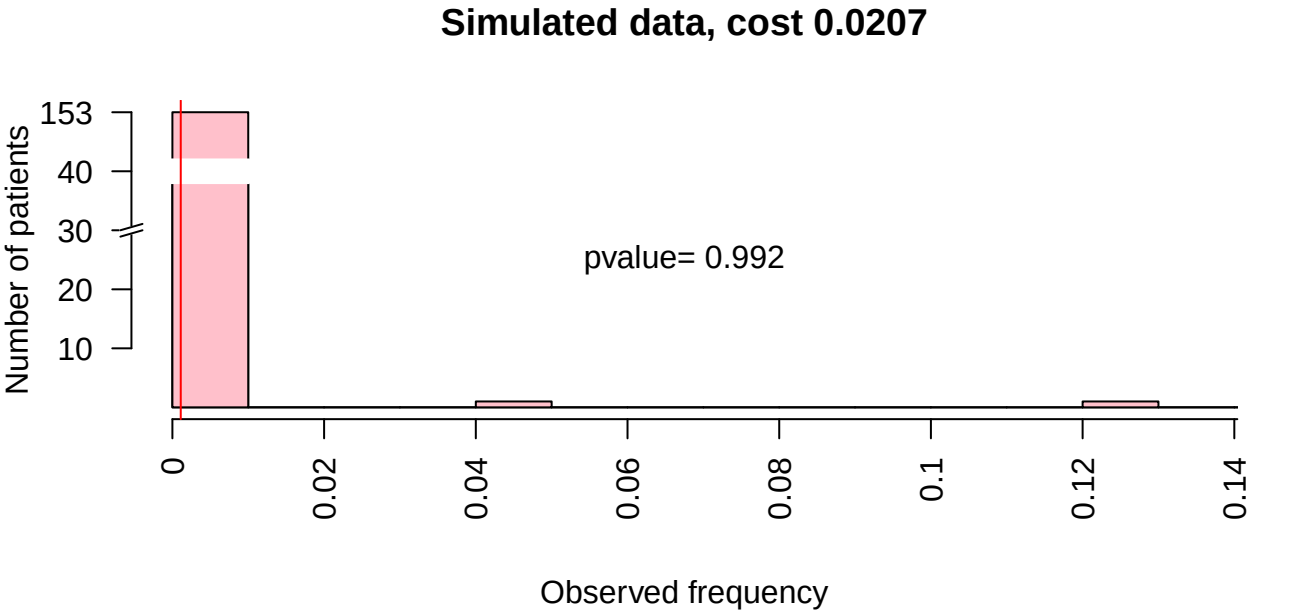

Single−SFS, site 414
Number of patients
132
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
Observed frequency

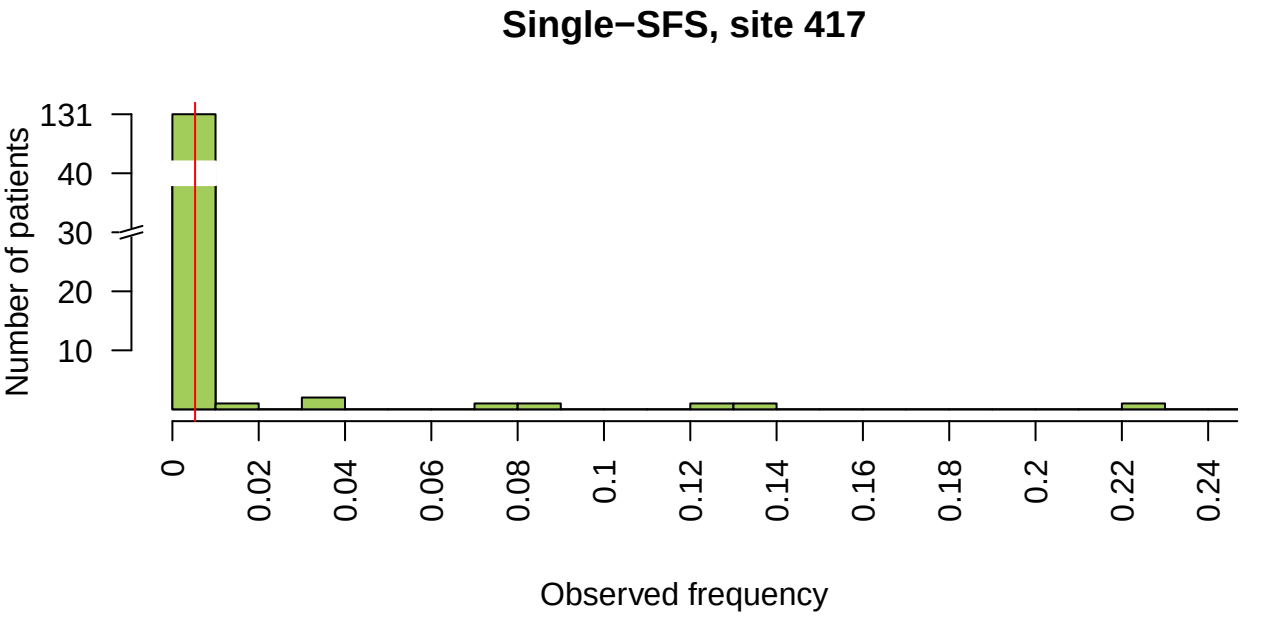

Simulated data, cost 0.002
Number of patients
138
40
30
20
10
pvalue= 0.248
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
Observed frequency

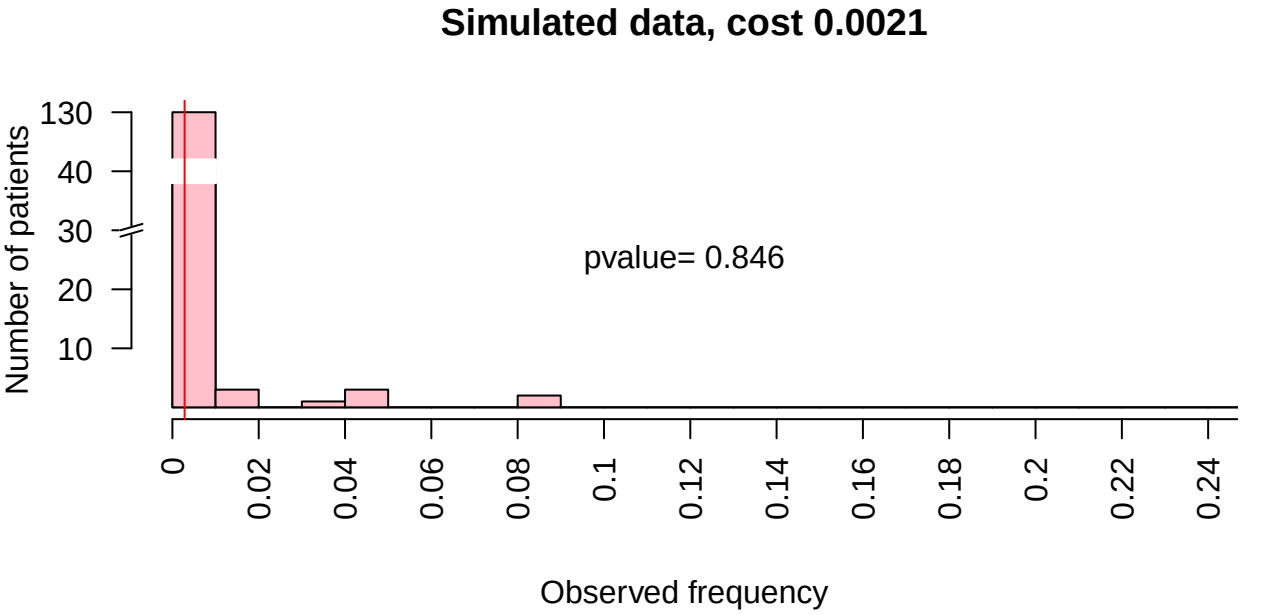

Single−SFS, site 415
Number of patients
155
40
30
20
10
0
Observed frequency

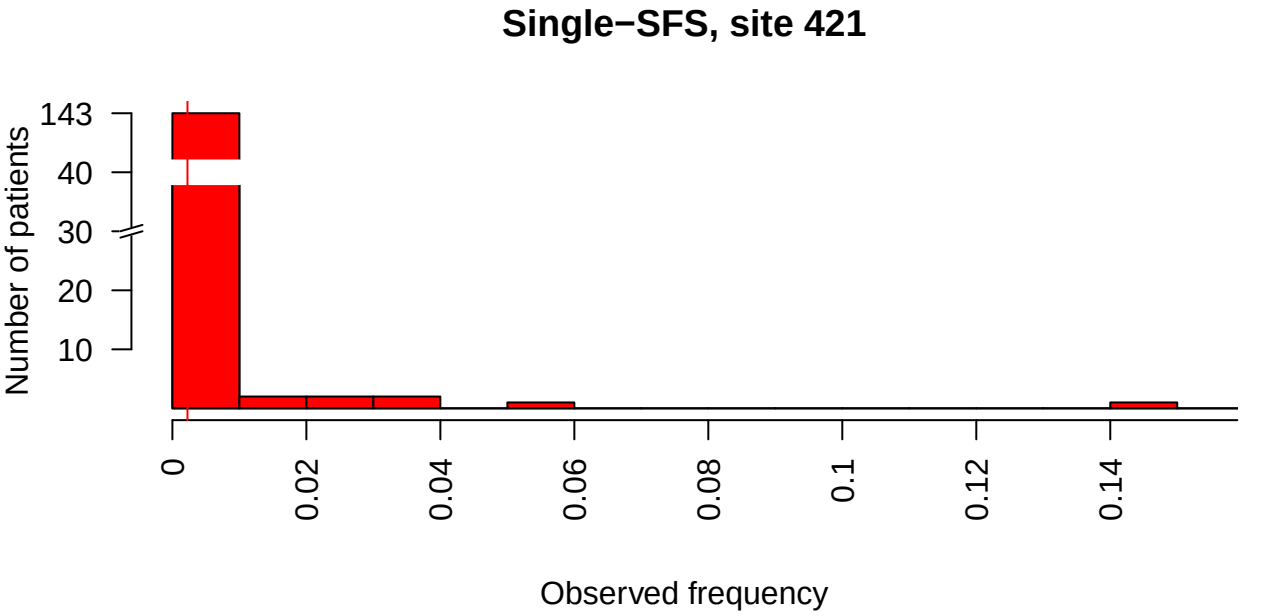

Simulated data, cost 1
Number of patients
155
40
30
20
10
0
pvalue= NaN
Observed frequency

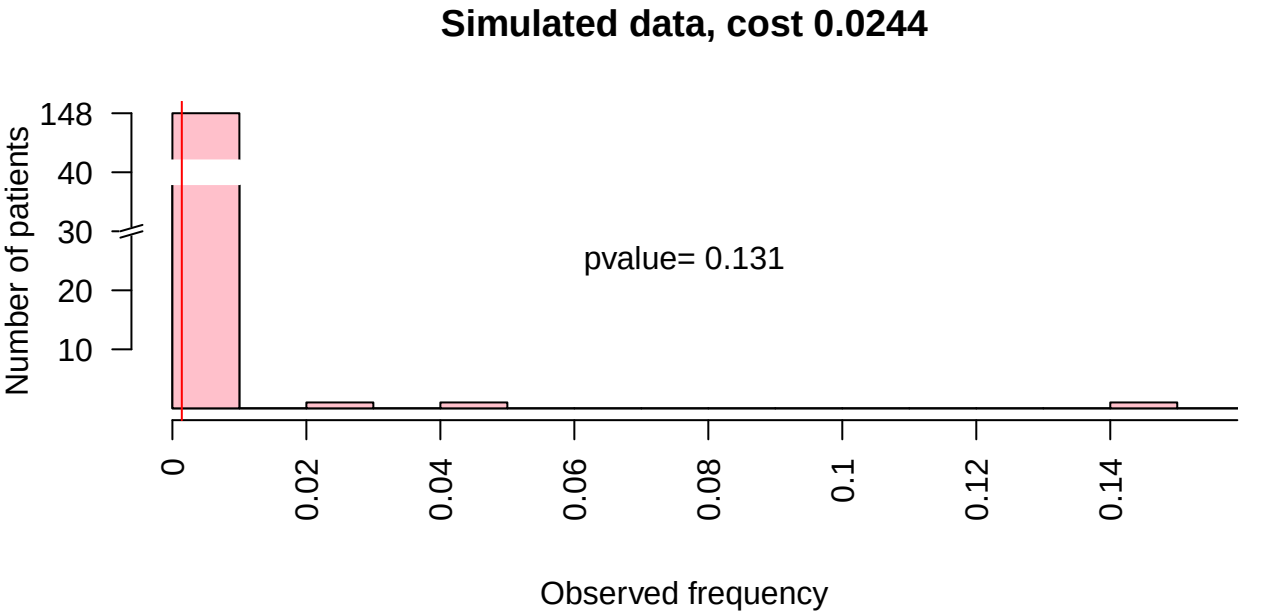

Single−SFS, site 416
Number of patients
153
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
Observed frequency

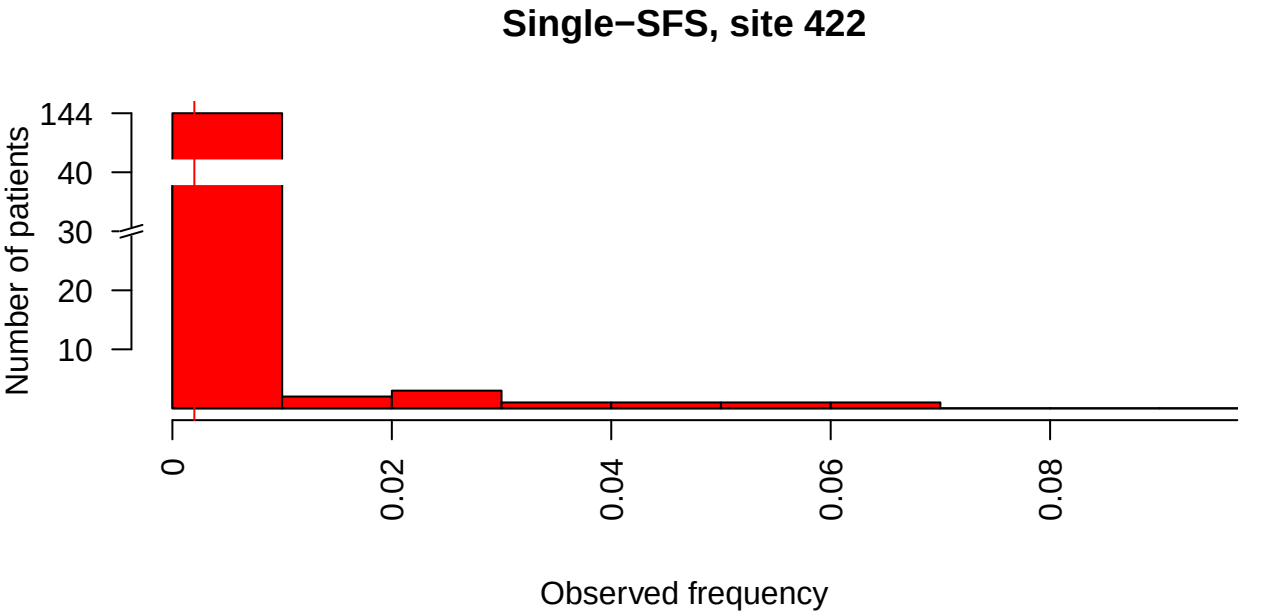

Simulated data, cost 0.0207
Number of patients
153
40
30
20
10
pvalue= 0.992
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
Observed frequency

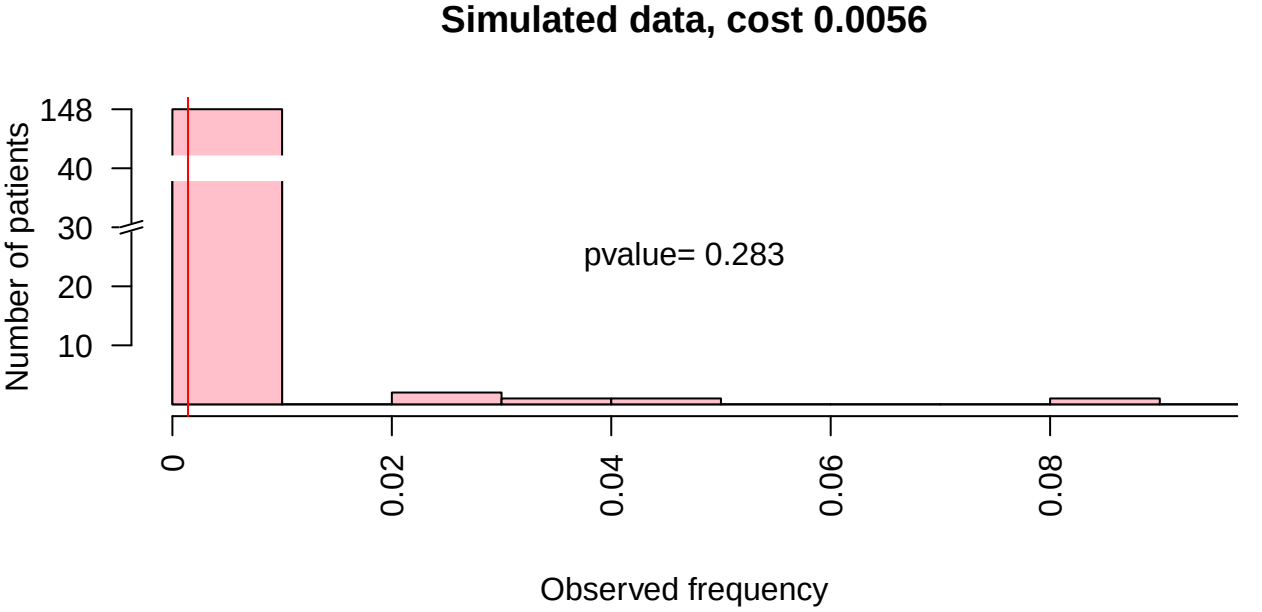

Single−SFS, site 417
Number of patients
131
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
0.24
Observed frequency

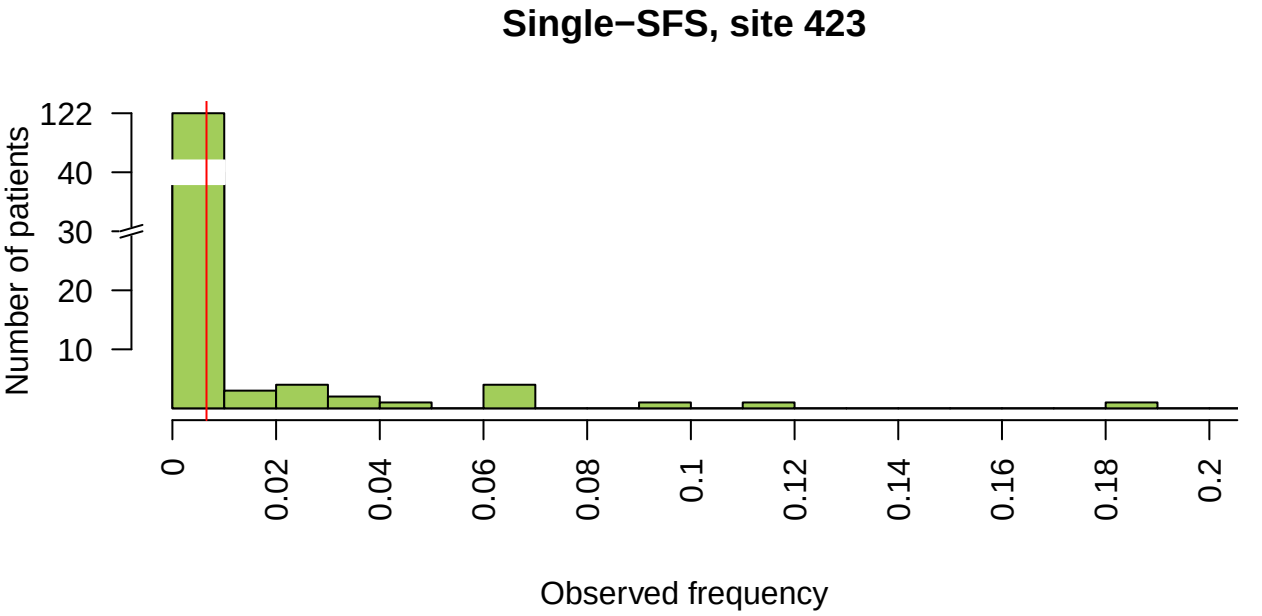

Simulated data, cost 0.0021
Number of patients
130
40
30
20
10
pvalue= 0.846
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
0.24
Observed frequency

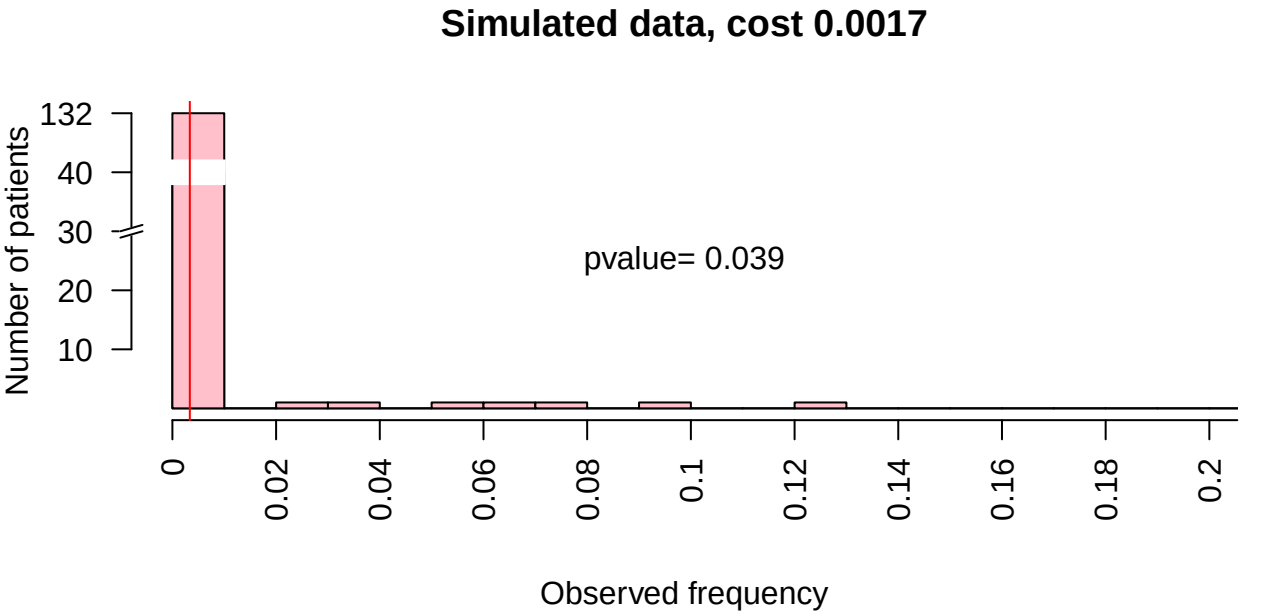

Single−SFS, site 421
Number of patients
143
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
Observed frequency

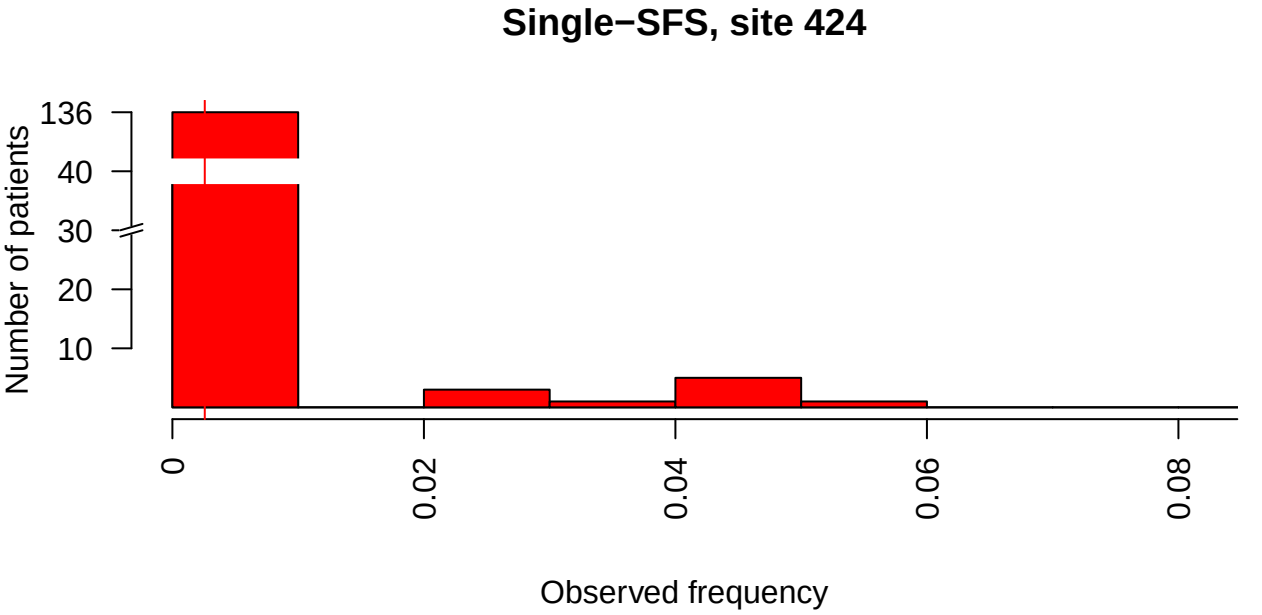

Simulated data, cost 0.0244
Number of patients
148
40
30
20
10
pvalue= 0.131
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
Observed frequency

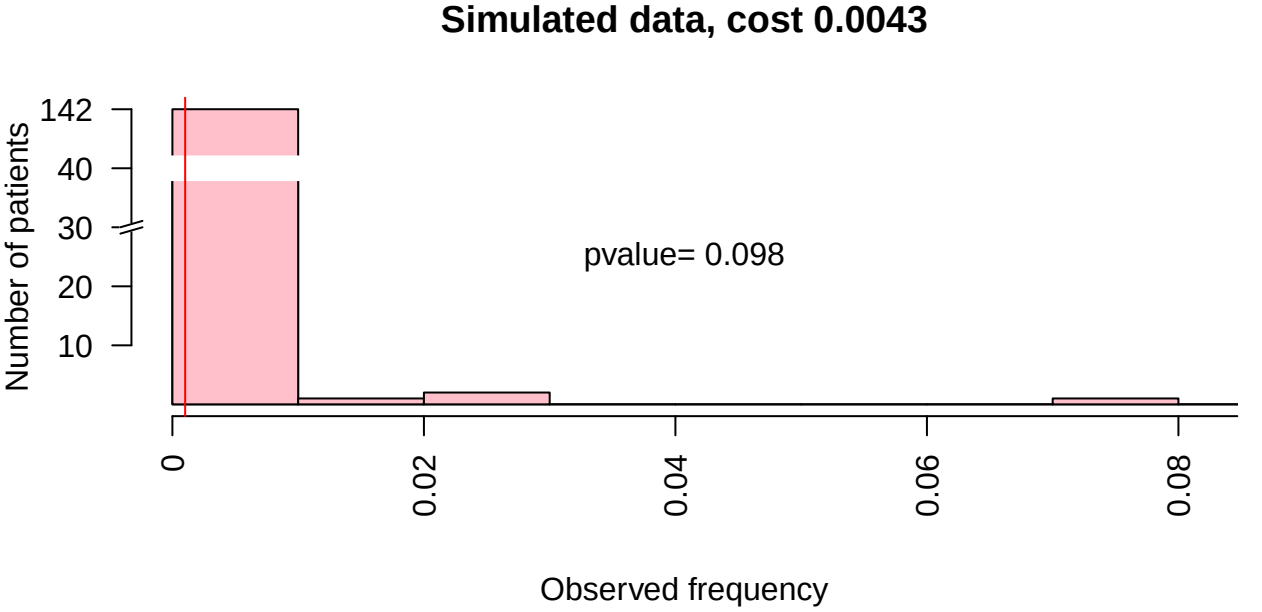

Single−SFS, site 422
Number of patients
144
40
30
20
10
0
0.02
0.04
0.06
0.08
Observed frequency

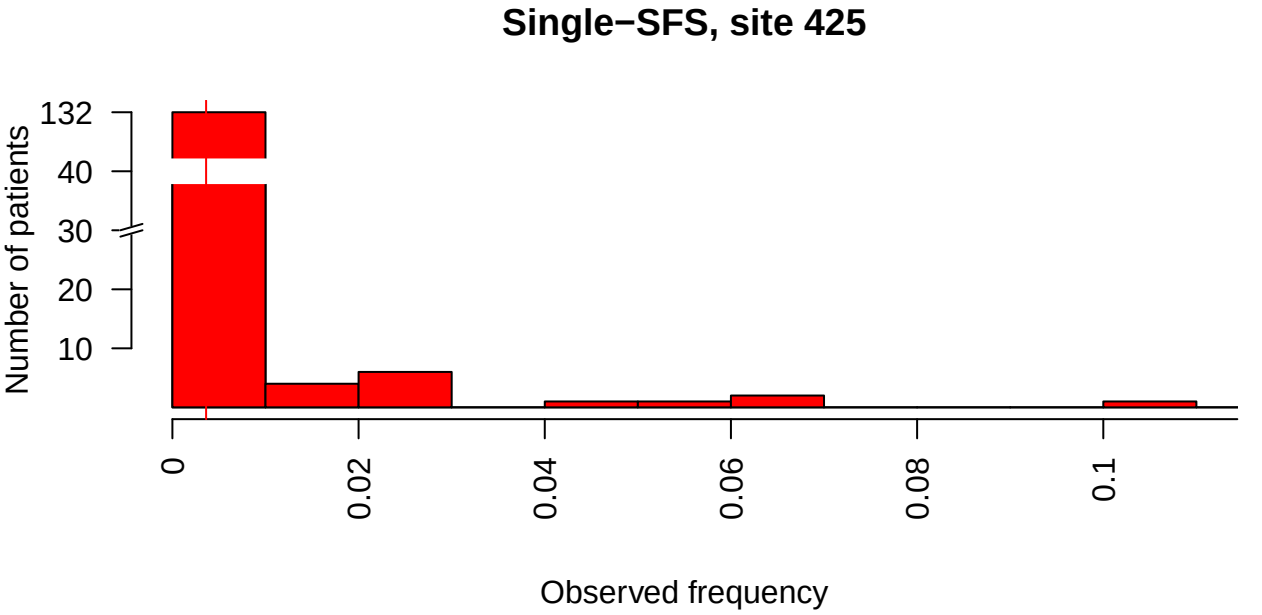

Simulated data, cost 0.0056
Number of patients
148
40
30
20
10
pvalue= 0.283
0
0.02
0.04
0.06
0.08
Observed frequency

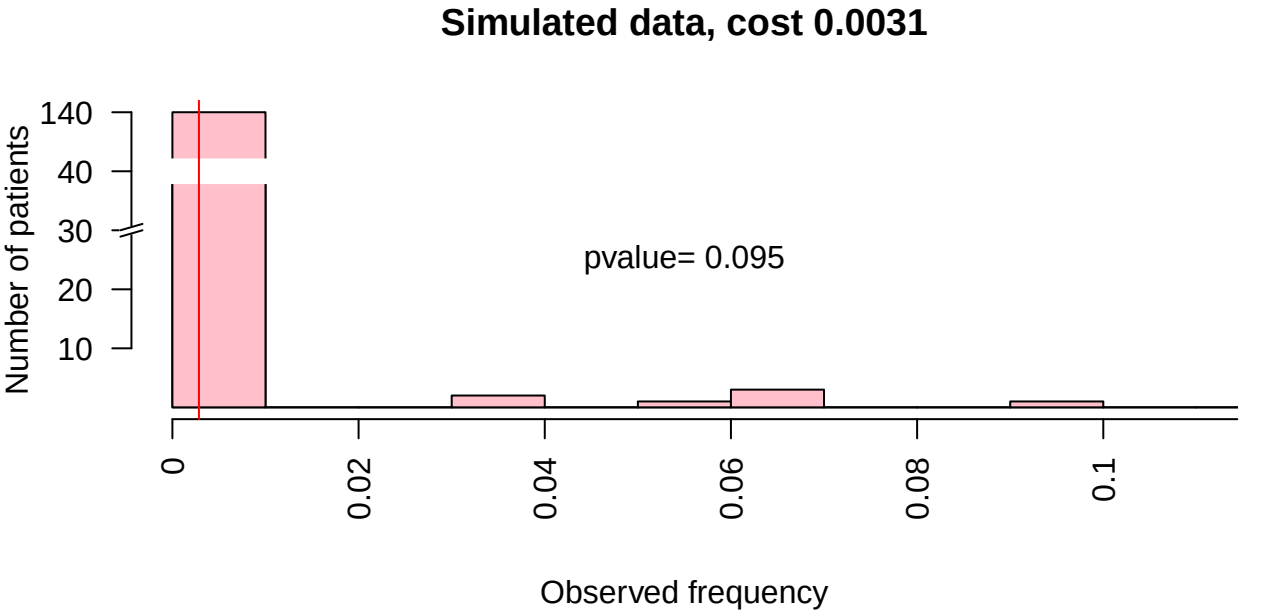

Single−SFS, site 423
Number of patients
122
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
Observed frequency

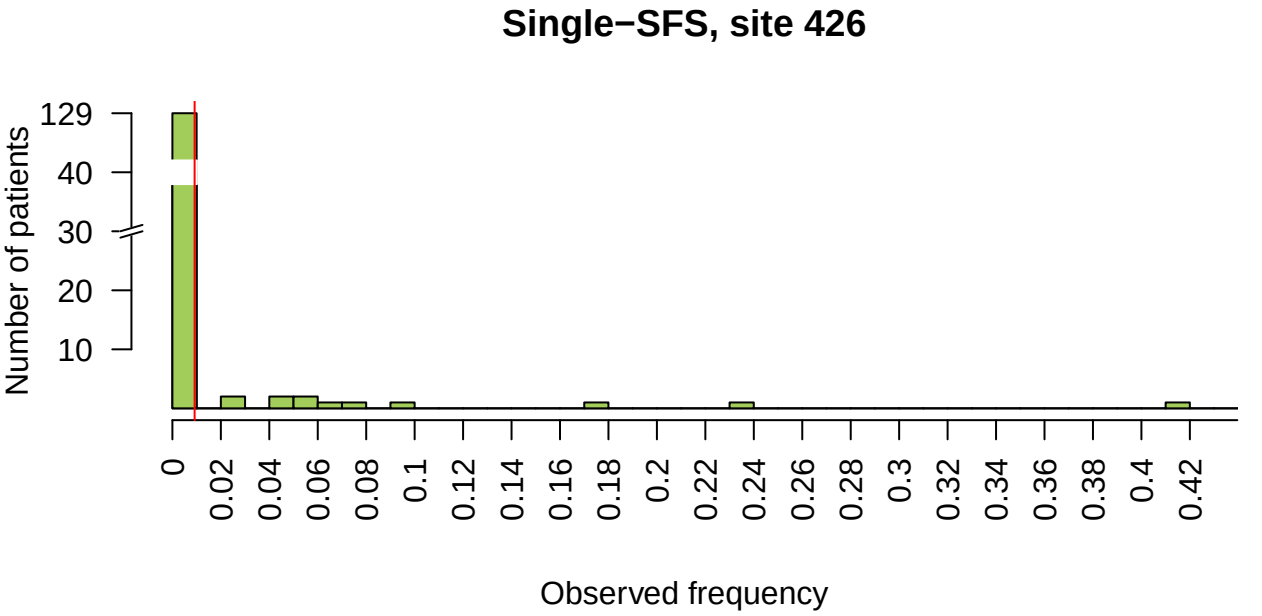

Simulated data, cost 0.0017
Number of patients
132
40
30
20
10
pvalue= 0.039
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
Observed frequency

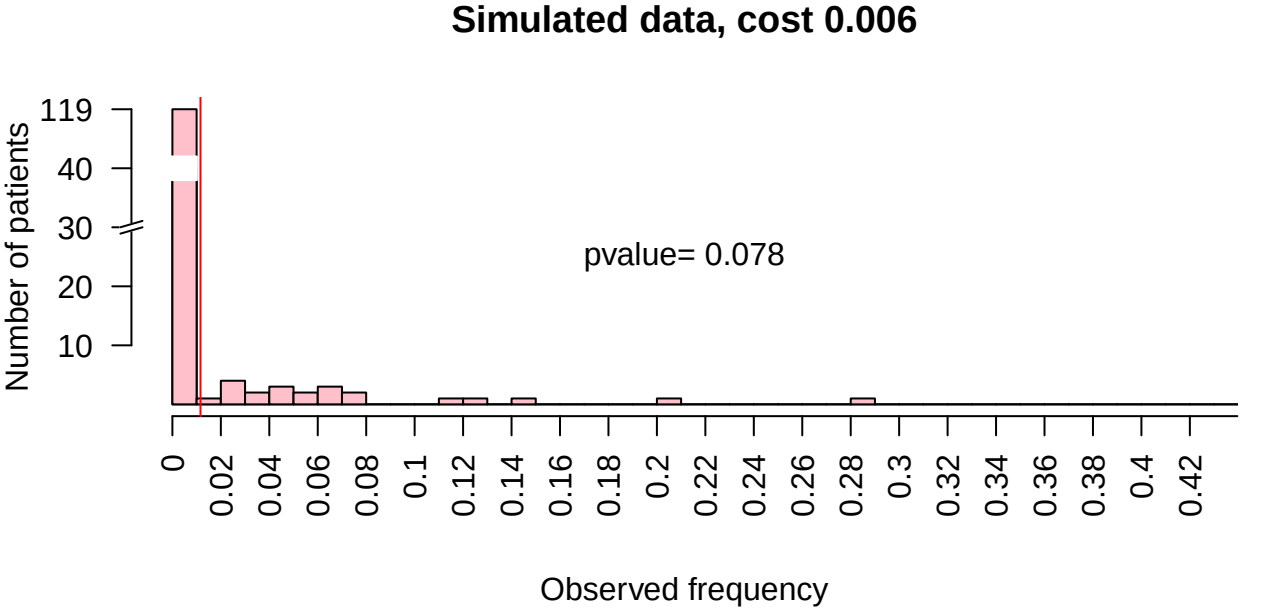

Single−SFS, site 424
Number of patients
136
40
30
20
10
0
0.02
0.04
0.06
0.08
Observed frequency

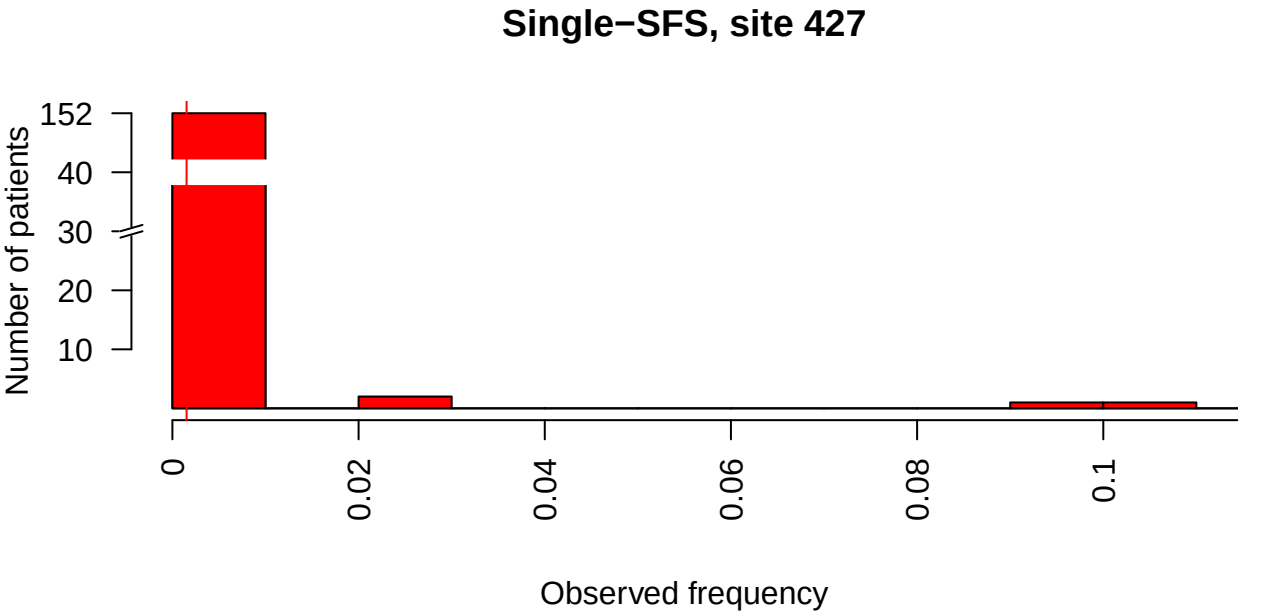

Simulated data, cost 0.0043
Number of patients
142
40
30
20
10
pvalue= 0.098
0
0.02
0.04
0.06
0.08
Observed frequency

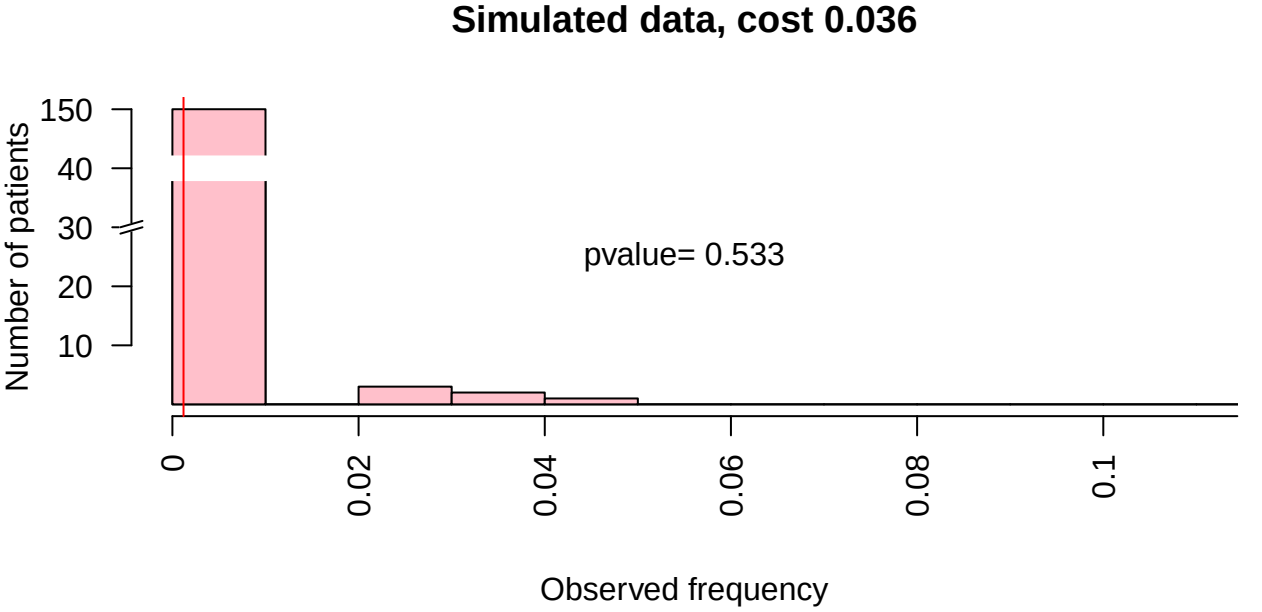

Single−SFS, site 425
Number of patients
132
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
Observed frequency

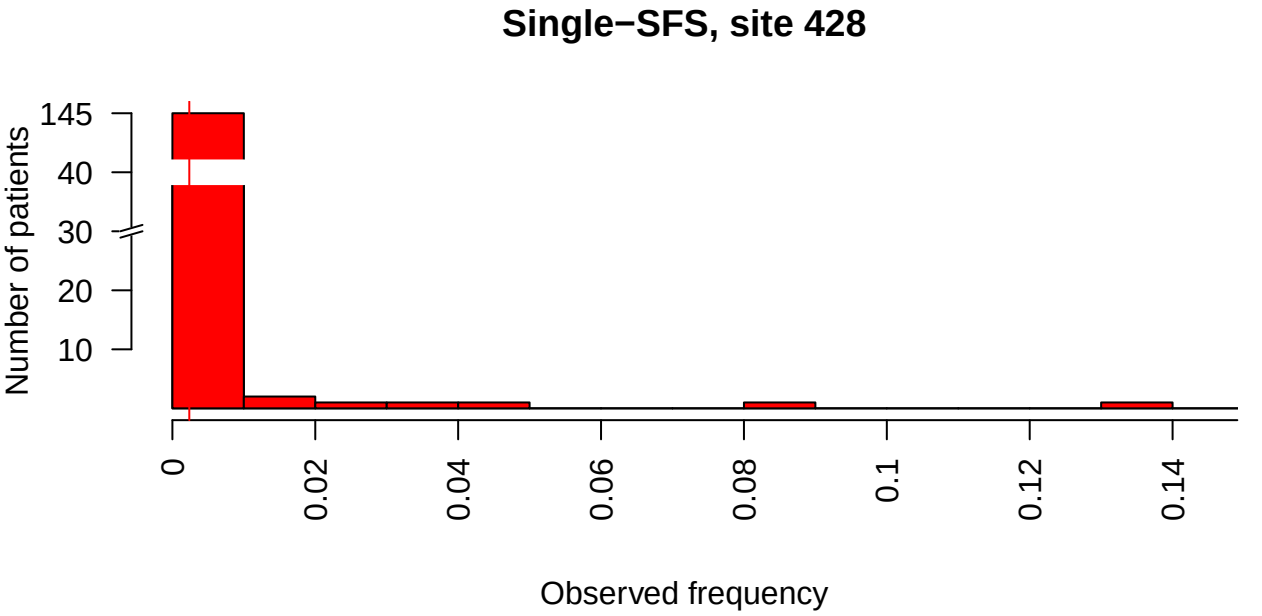

Simulated data, cost 0.0031
Number of patients
140
40
30
20
10
pvalue= 0.095
0
0.02
0.04
0.06
0.08
0.1
Observed frequency

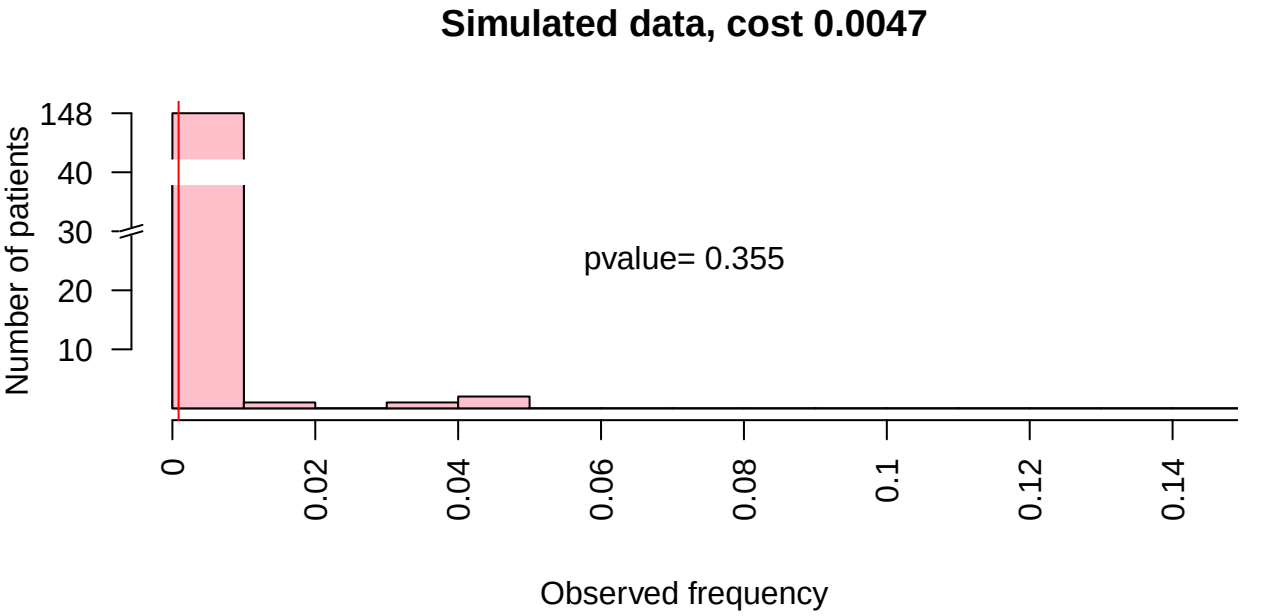

Single−SFS, site 426
Number of patients
129
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
0.24
0.26
0.28
0.3
0.32
0.34
0.36
0.38
0.4
0.42
Observed frequency

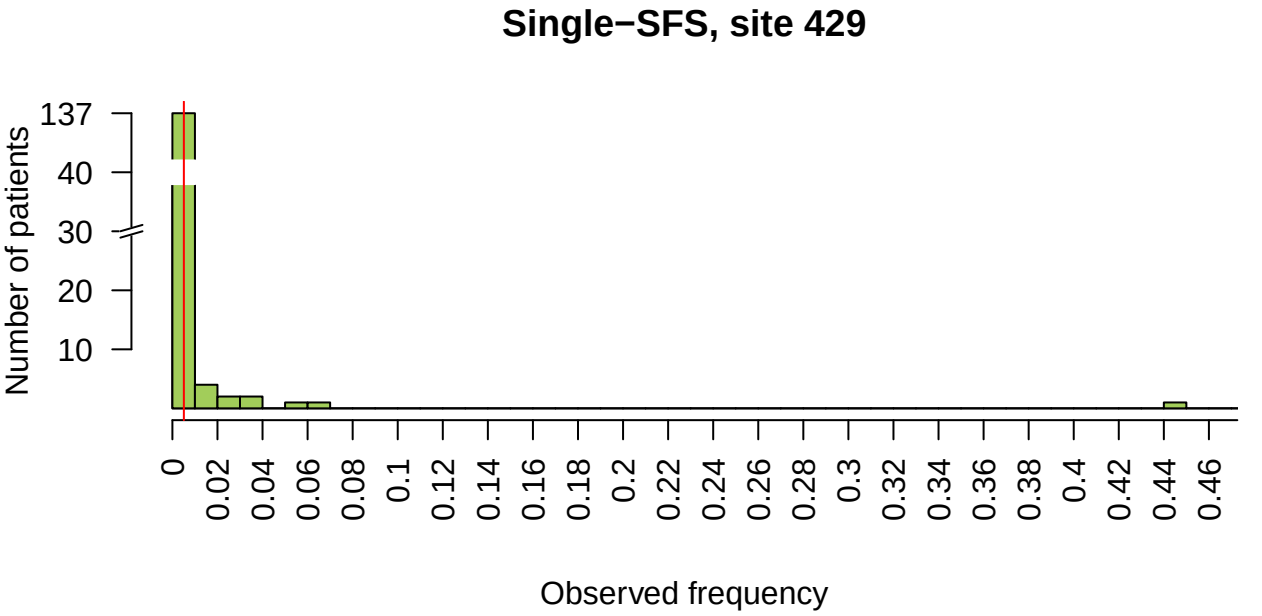

Simulated data, cost 0.006
Number of patients
119
40
30
20
10
pvalue= 0.078
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
0.24
0.26
0.28
0.3
0.32
0.34
0.36
0.38
0.4
0.42
Observed frequency

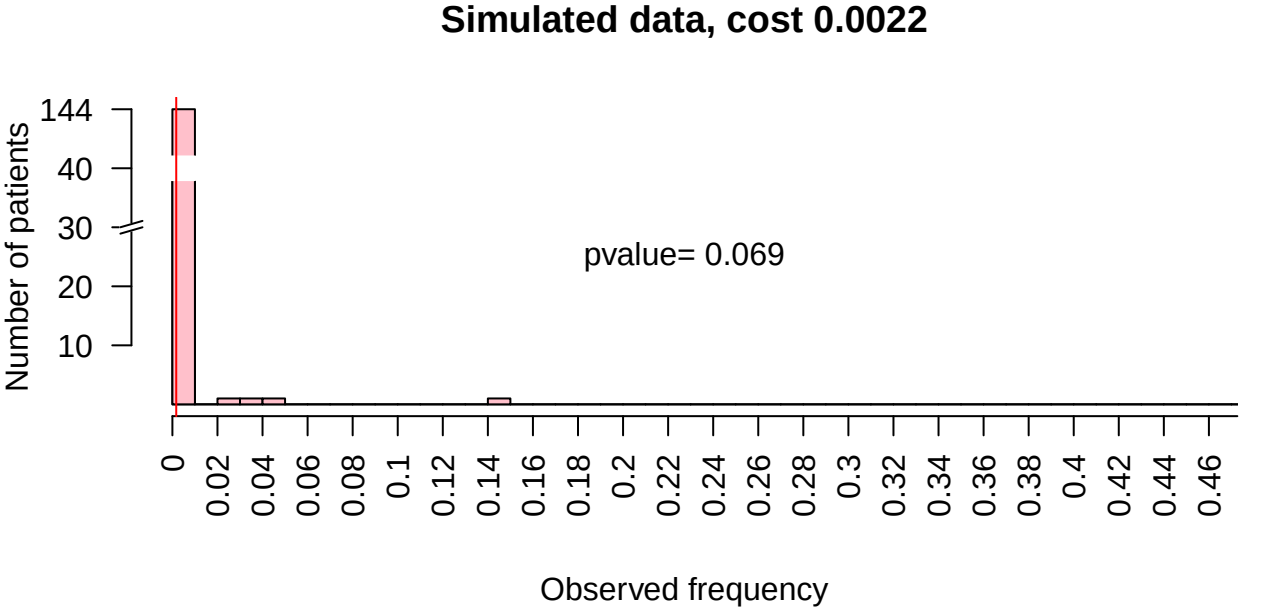

Single−SFS, site 427
Number of patients
152
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
Observed frequency

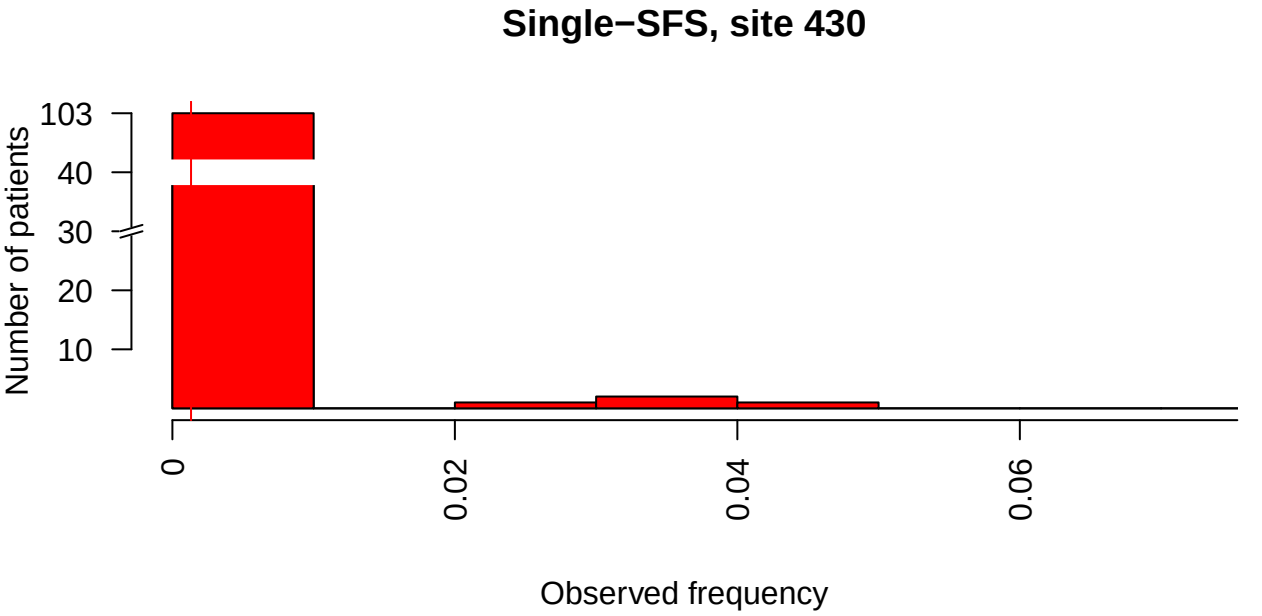

Simulated data, cost 0.036
Number of patients
150
40
30
20
10
pvalue= 0.533
0
0.02
0.04
0.06
0.08
0.1
Observed frequency

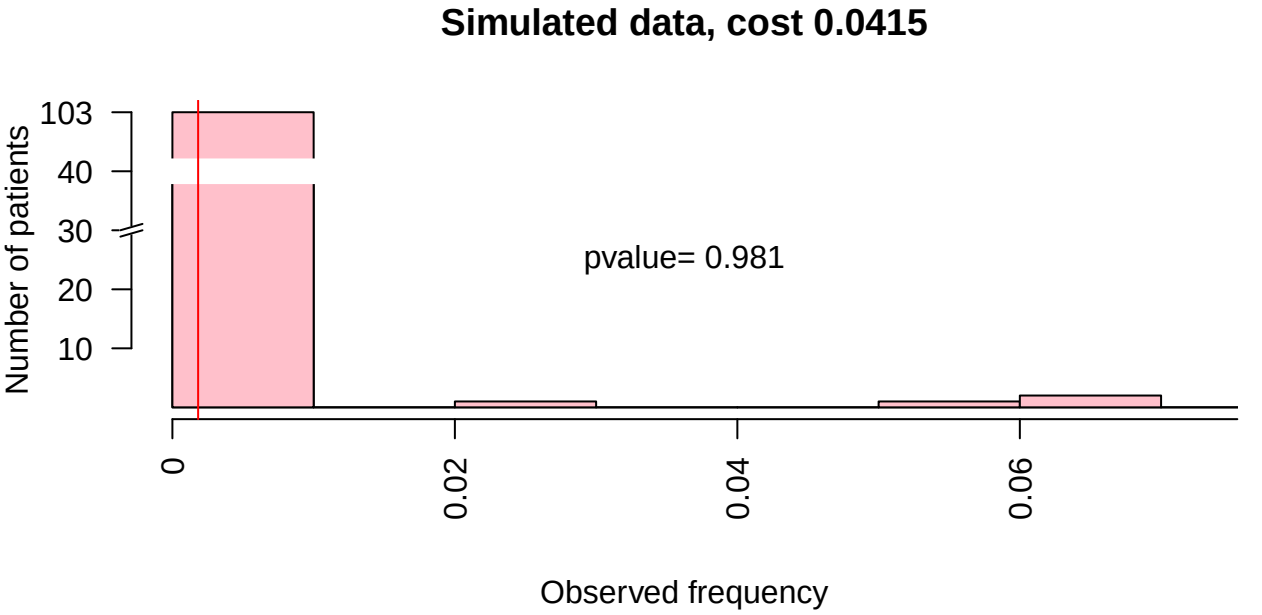

Single−SFS, site 428
Number of patients
145
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
Observed frequency

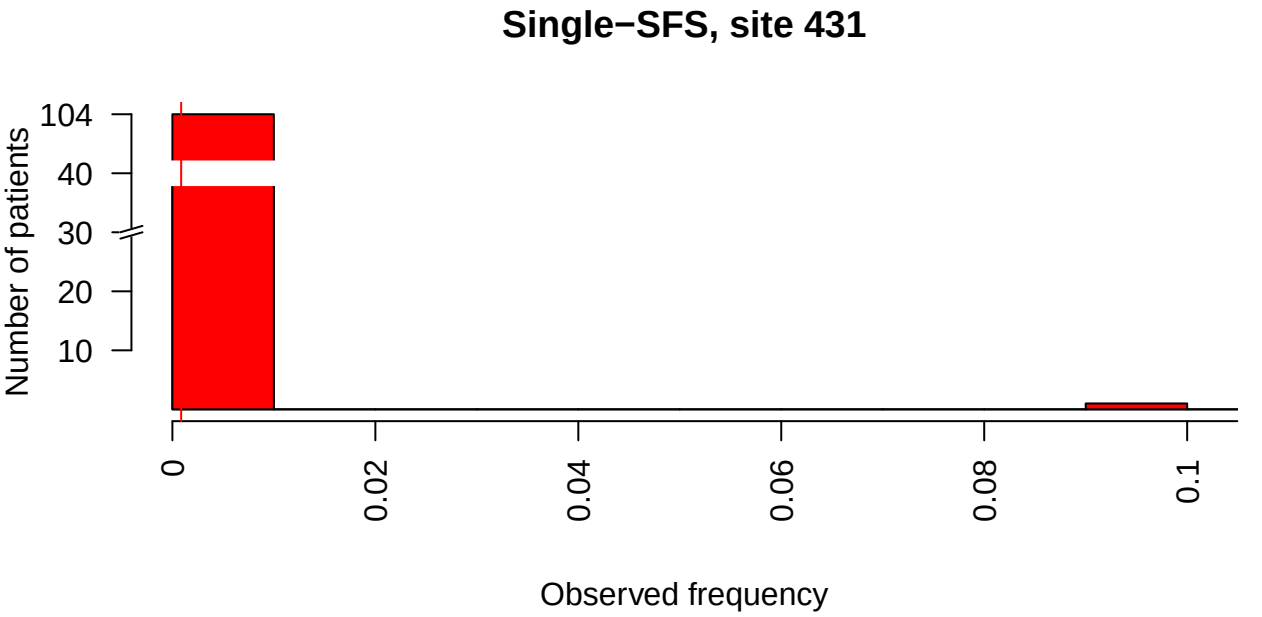

Simulated data, cost 0.0047
Number of patients
148
40
30
20
10
pvalue= 0.355
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
Observed frequency

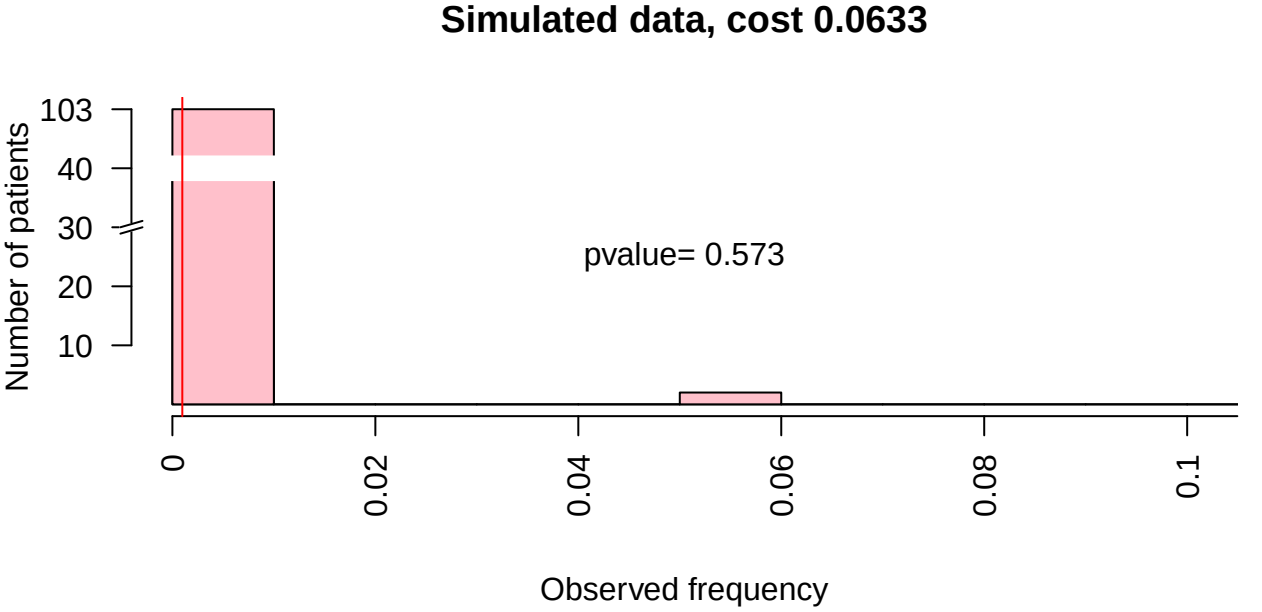

Single−SFS, site 429
Number of patients
137
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
0.24
0.26
0.28
0.3
0.32
0.34
0.36
0.38
0.4
0.42
0.44
0.46
Observed frequency

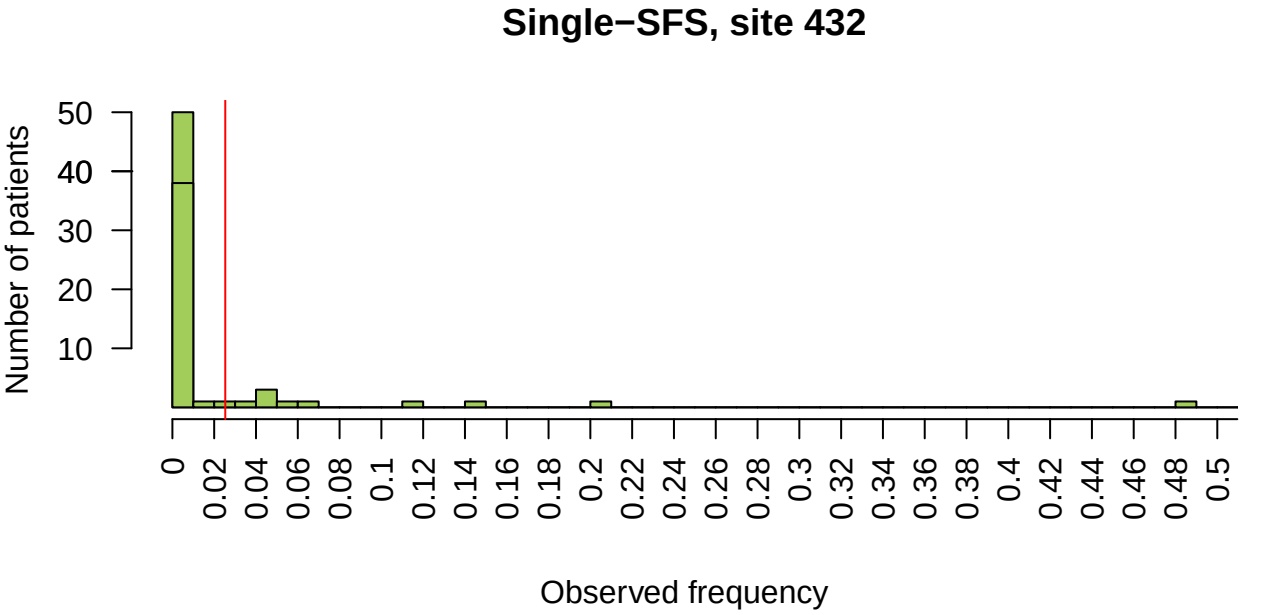

Simulated data, cost 0.0022
Number of patients
144
40
30
20
10
pvalue= 0.069
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
0.24
0.26
0.28
0.3
0.32
0.34
0.36
0.38
0.4
0.42
0.44
0.46
Observed frequency

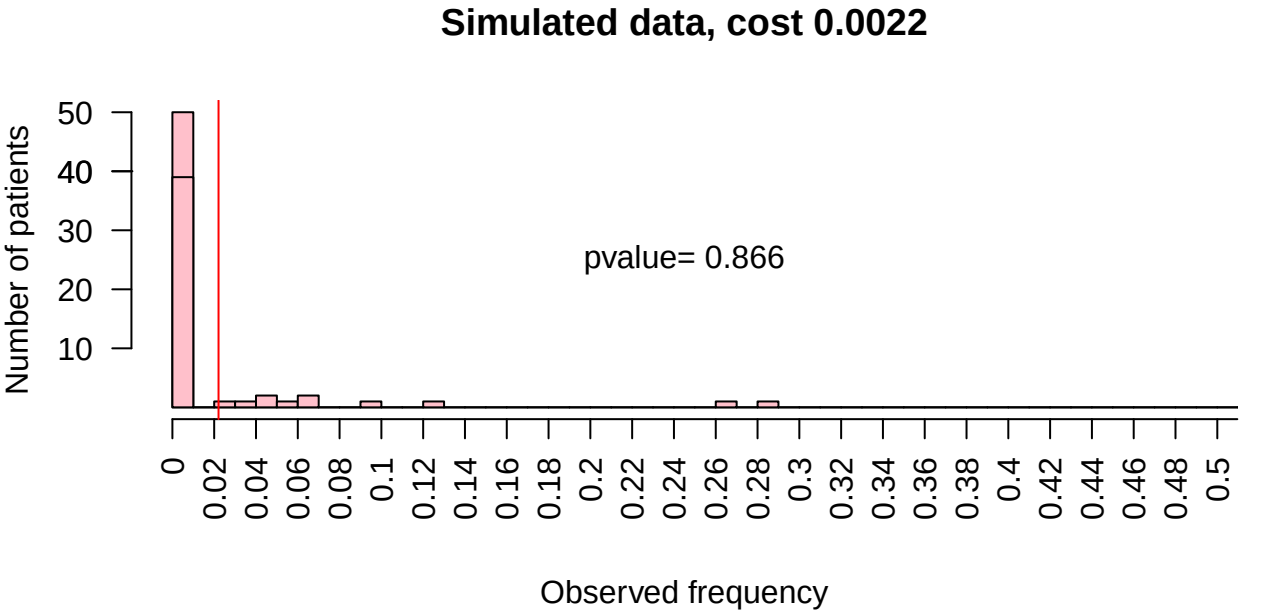

Single−SFS, site 430
Number of patients
103
40
30
20
10
0
0.02
0.04
0.06
Observed frequency

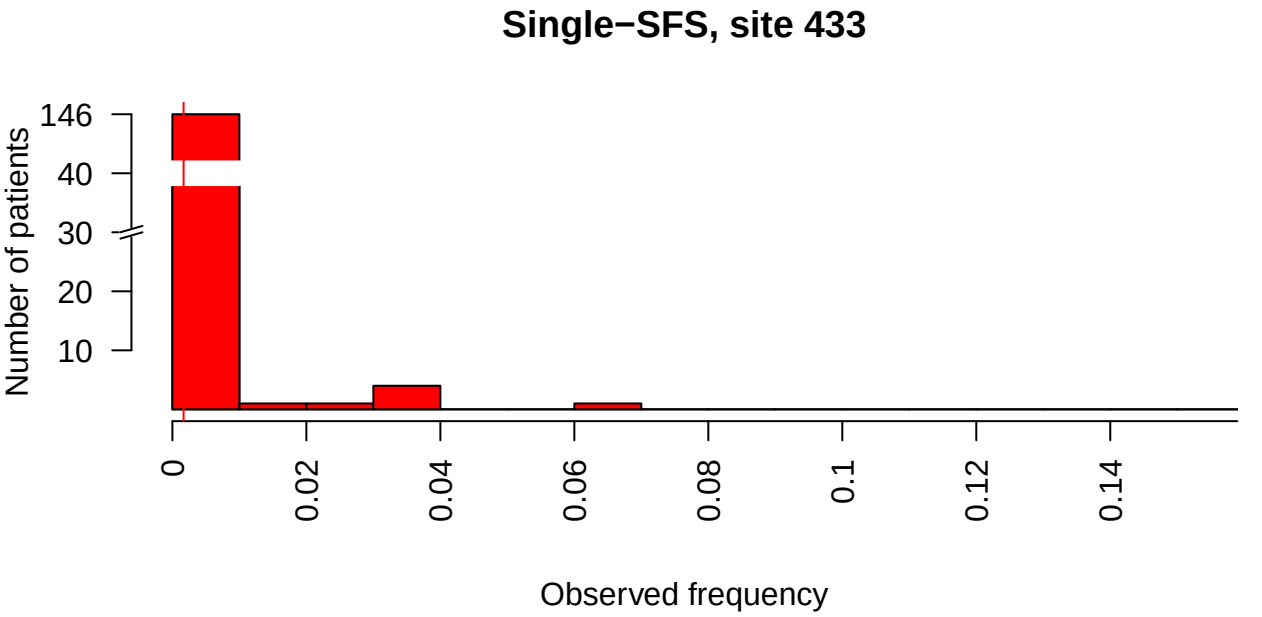

Simulated data, cost 0.0415
Number of patients
103
40
30
20
10
pvalue= 0.981
0
0.02
0.04
0.06
Observed frequency

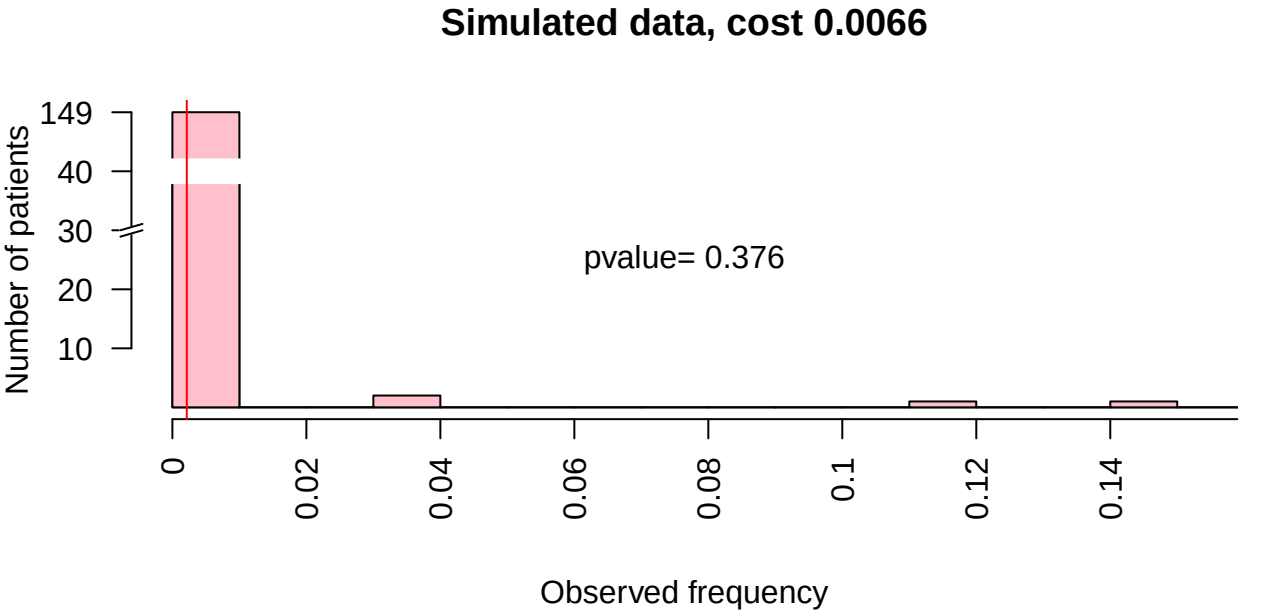

Single−SFS, site 431
Number of patients
104
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
Observed frequency

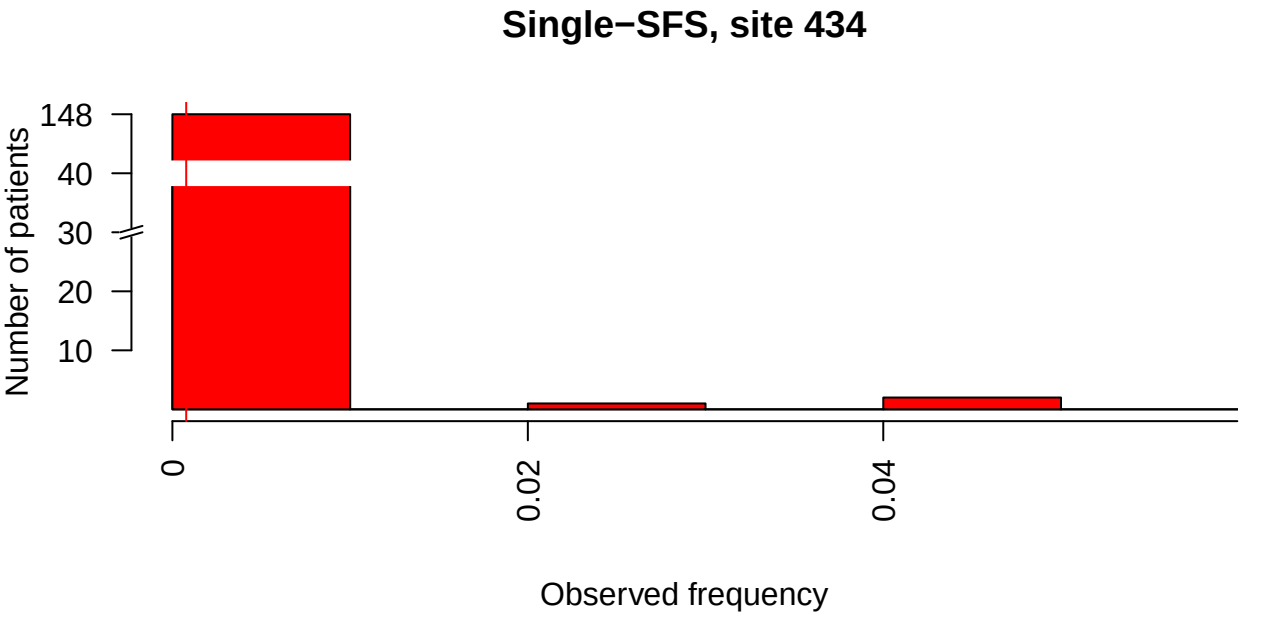

Simulated data, cost 0.0633
Number of patients
103
40
30
20
10
pvalue= 0.573
0
0.02
0.04
0.06
0.08
0.1
Observed frequency

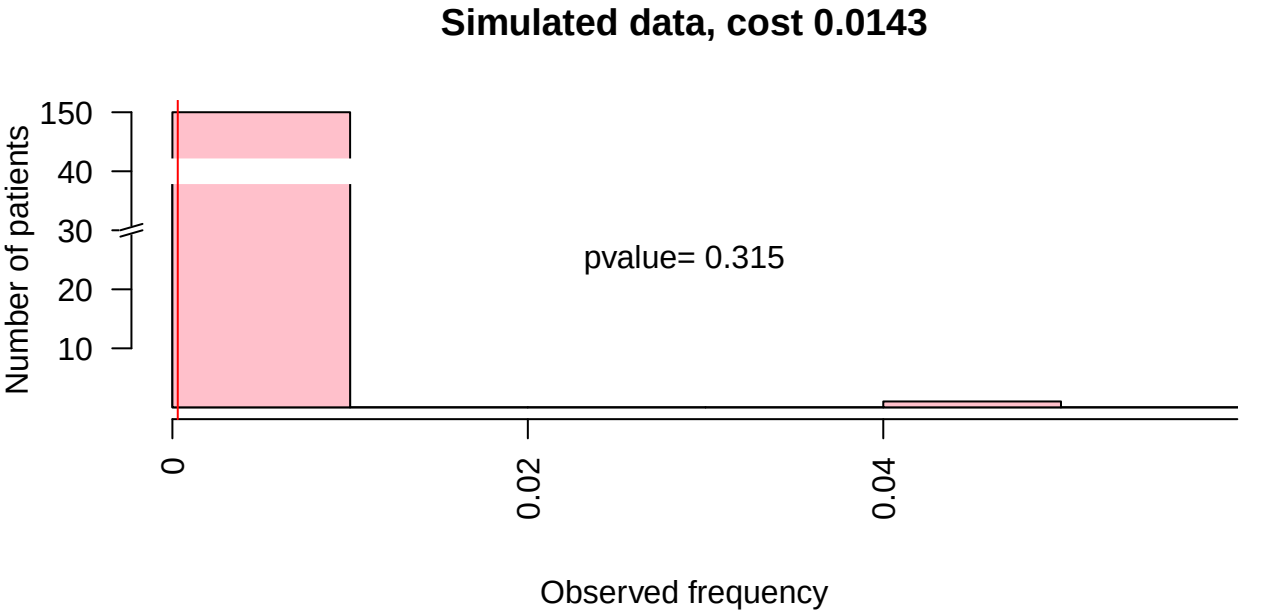

Single−SFS, site 432
Number of patients
50
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
0.24
0.26
0.28
0.3
0.32
0.34
0.36
0.38
0.4
0.42
0.44
0.46
0.48
0.5
Observed frequency

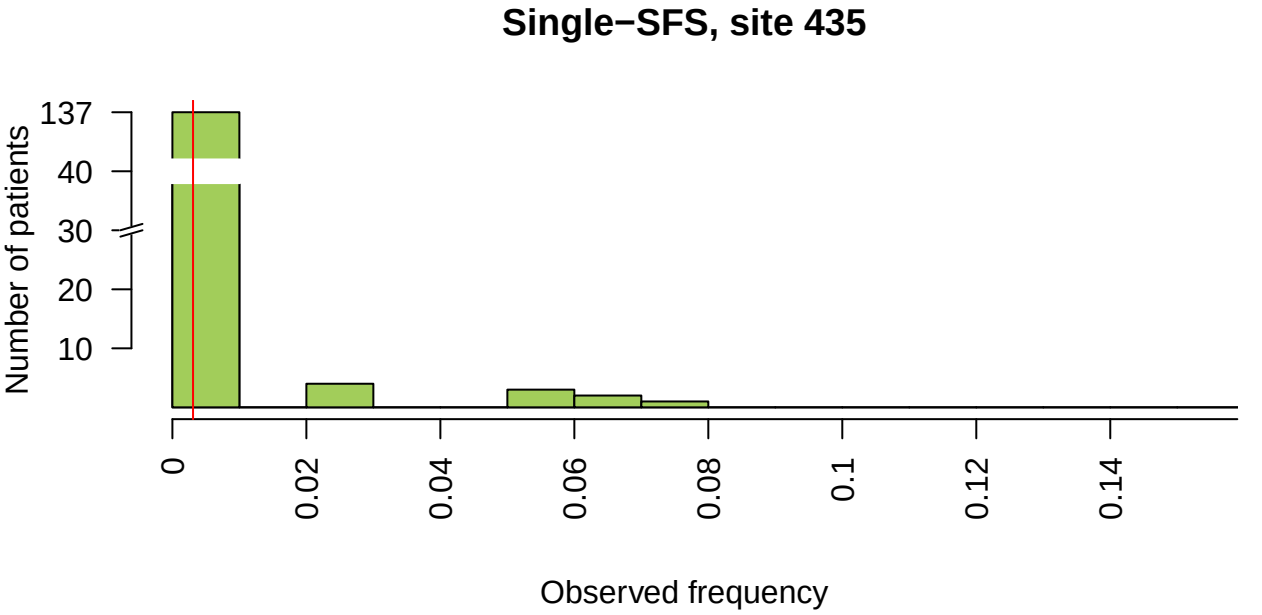

Simulated data, cost 0.0022
Number of patients
50
40
30
20
10
pvalue= 0.866
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
0.24
0.26
0.28
0.3
0.32
0.34
0.36
0.38
0.4
0.42
0.44
0.46
0.48
0.5
Observed frequency

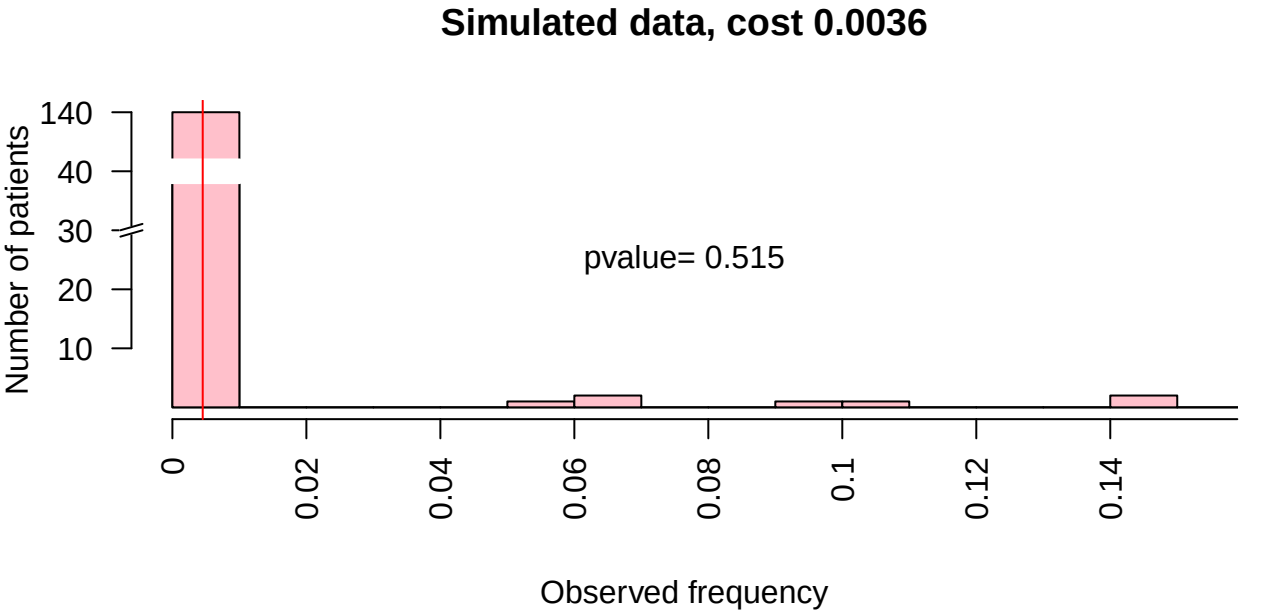

Single−SFS, site 433
Number of patients
146
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
Observed frequency

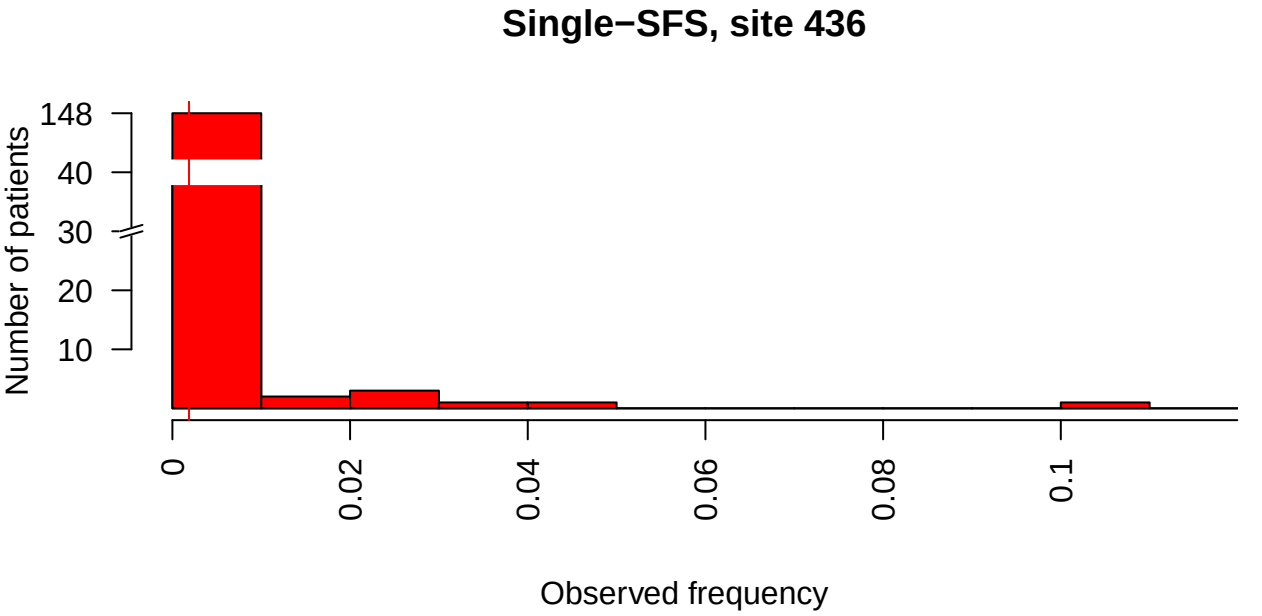

Simulated data, cost 0.0066
Number of patients
149
40
30
20
10
pvalue= 0.376
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
Observed frequency

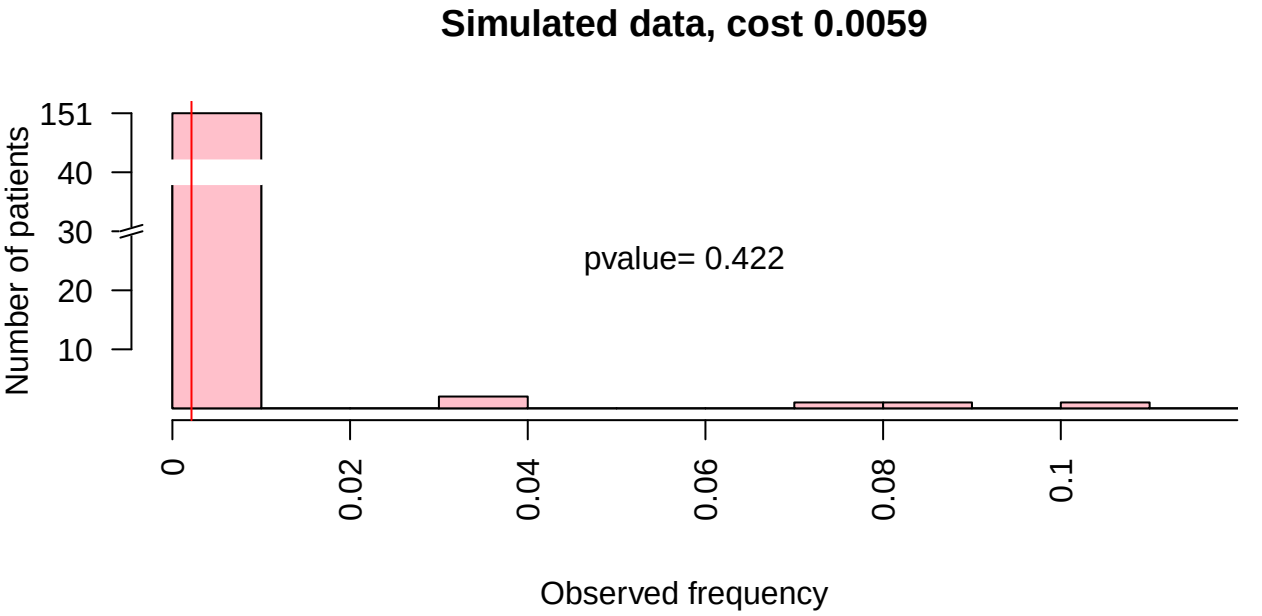

Single−SFS, site 434
Number of patients
148
40
30
20
10
0
0.02
0.04
Observed frequency

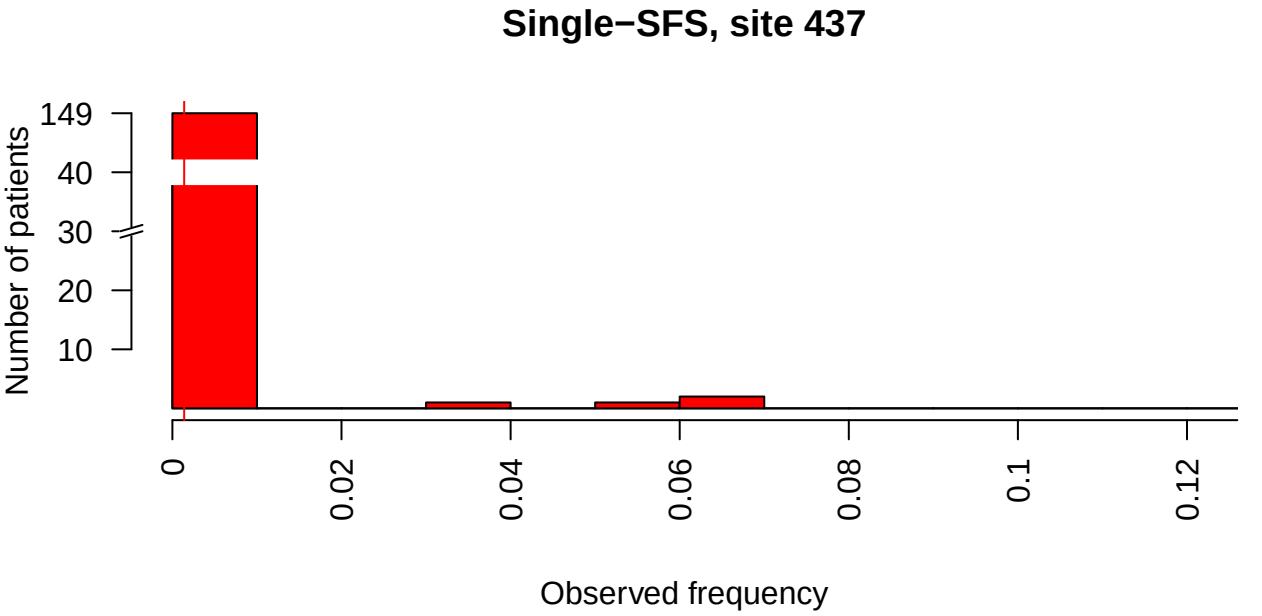

Simulated data, cost 0.0143
Number of patients
150
40
30
20
10
pvalue= 0.315
0
0.02
0.04
Observed frequency

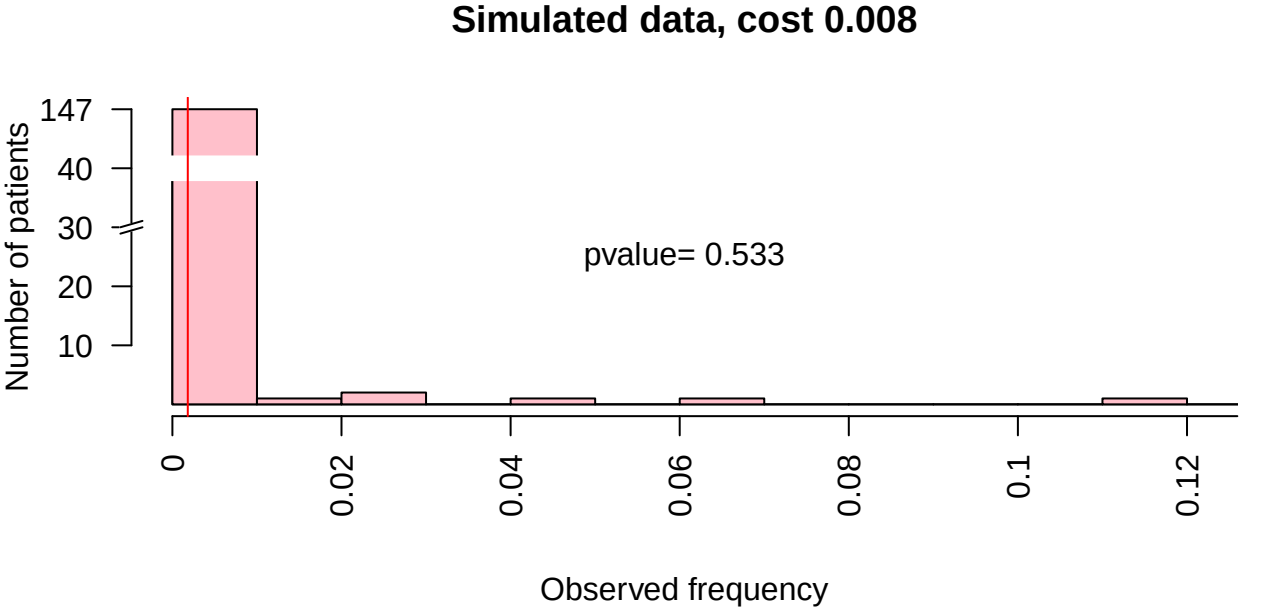

Single−SFS, site 435
Number of patients
137
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
Observed frequency

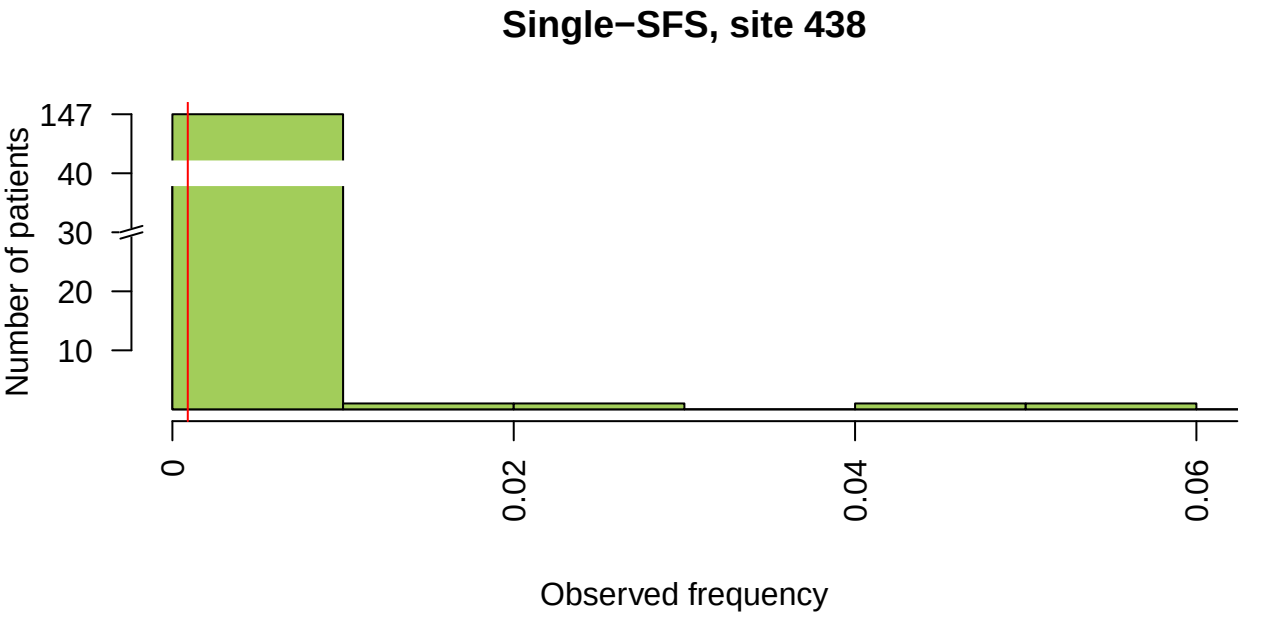

Simulated data, cost 0.0036
Number of patients
140
40
30
20
10
pvalue= 0.515
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
Observed frequency

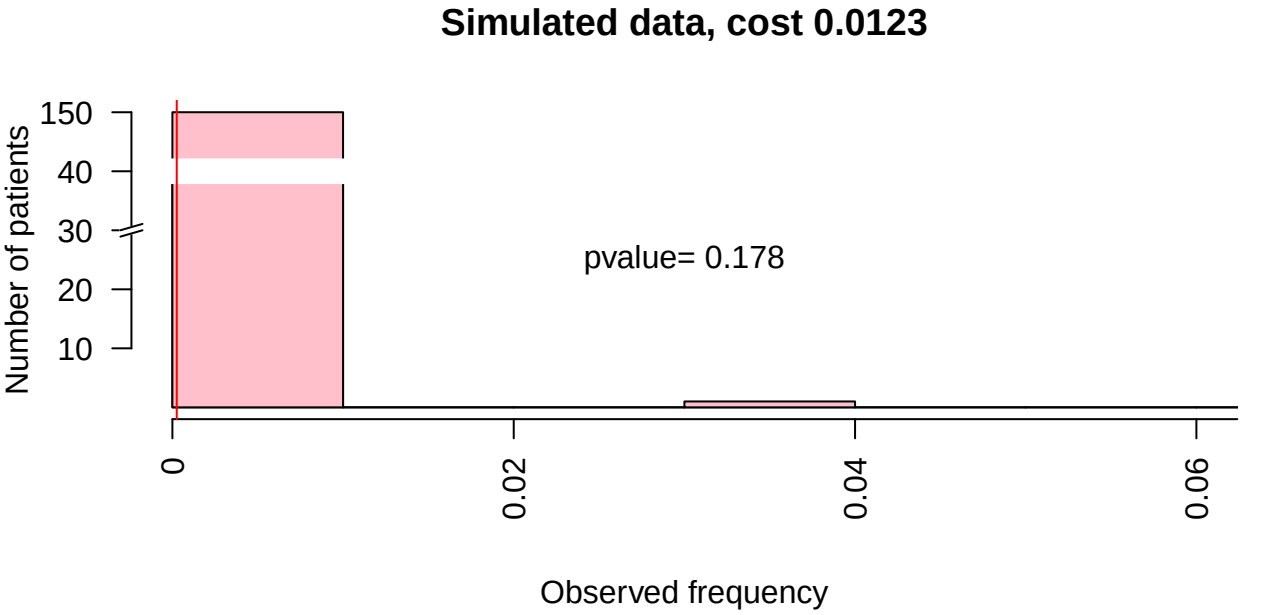

Single−SFS, site 436
Number of patients
148
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
Observed frequency

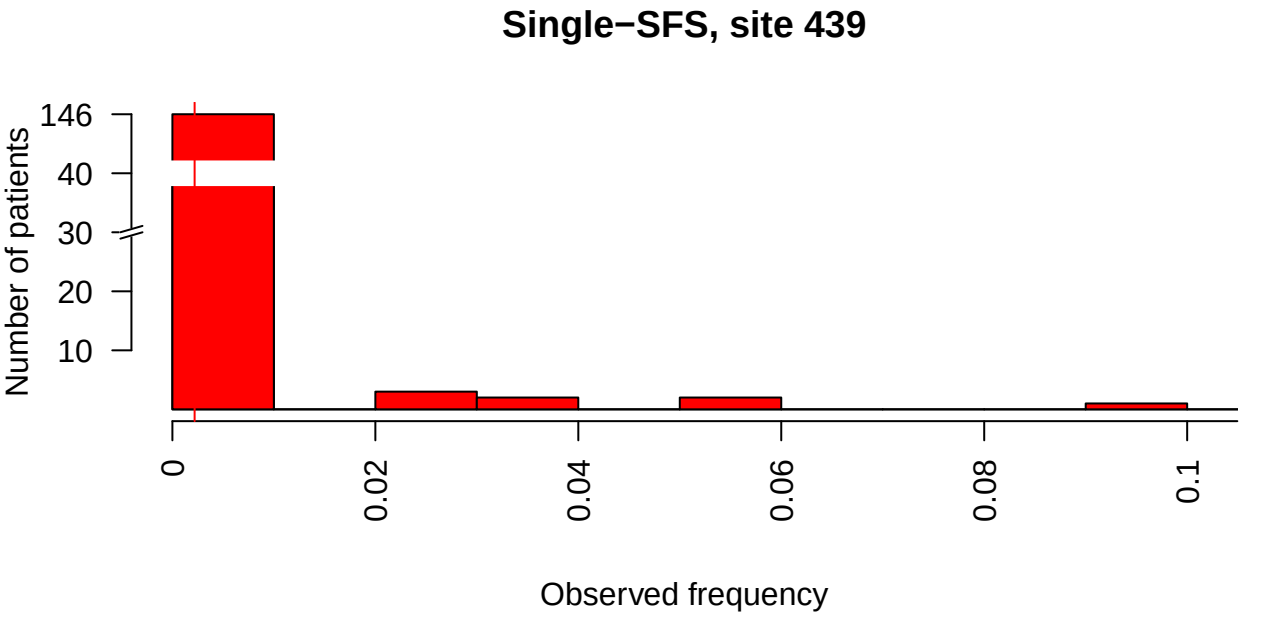

Simulated data, cost 0.0059
Number of patients
151
40
30
20
10
pvalue= 0.422
0
0.02
0.04
0.06
0.08
0.1
Observed frequency

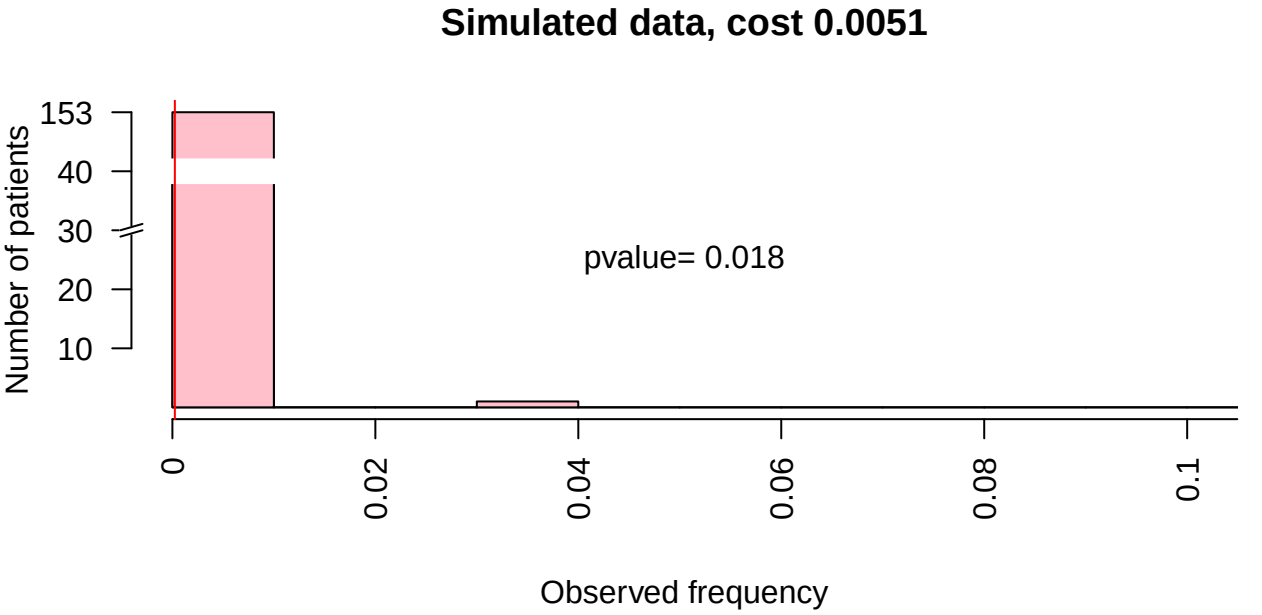

Single−SFS, site 437
Number of patients
149
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
Observed frequency

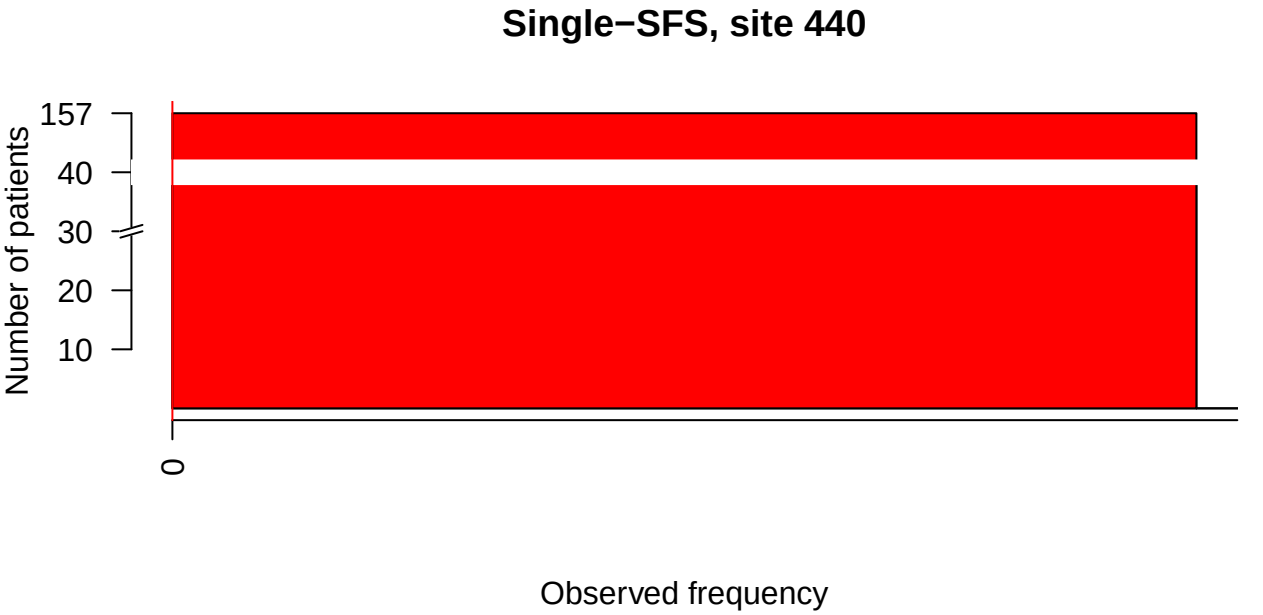

Simulated data, cost 0.008
Number of patients
147
40
30
20
10
pvalue= 0.533
0
0.02
0.04
0.06
0.08
0.1
0.12
Observed frequency

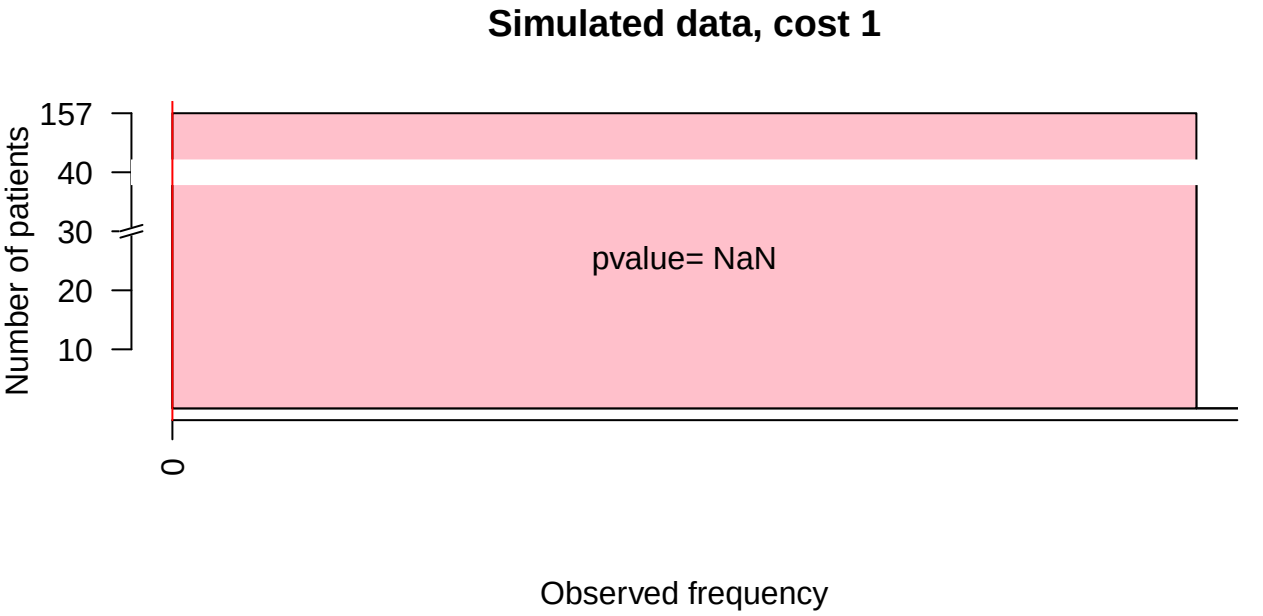

Single−SFS, site 438
Number of patients
147
40
30
20
10
0
0.02
0.04
0.06
Observed frequency

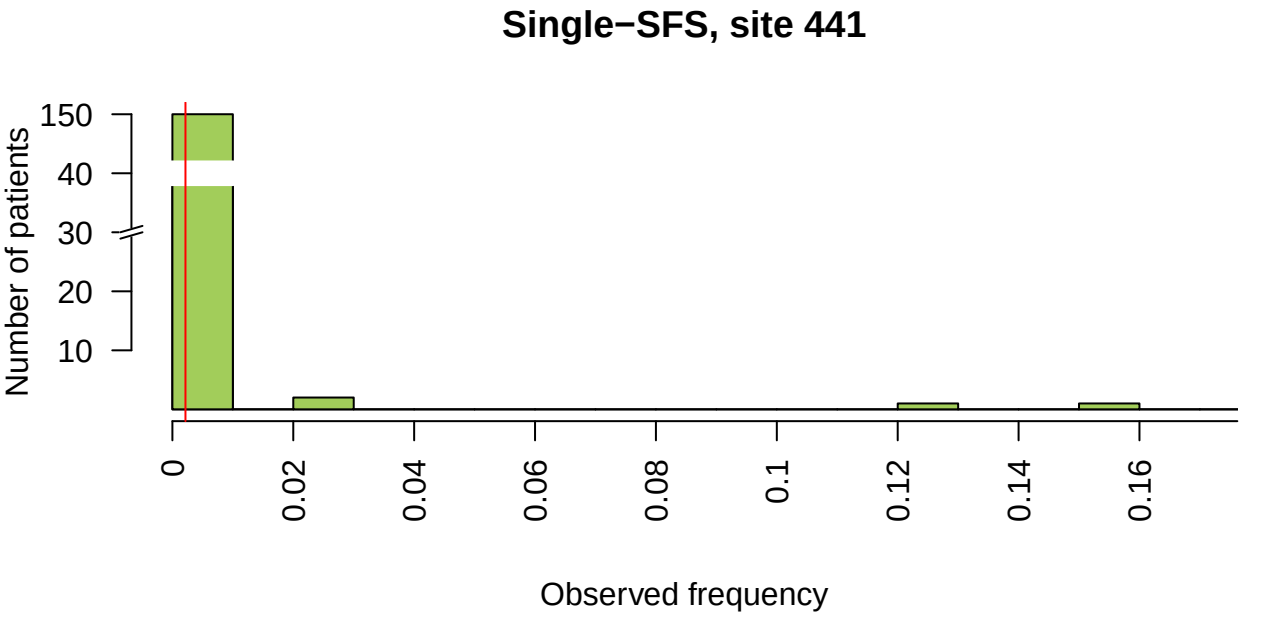

Simulated data, cost 0.0123
Number of patients
150
40
30
20
10
pvalue= 0.178
0
0.02
0.04
0.06
Observed frequency

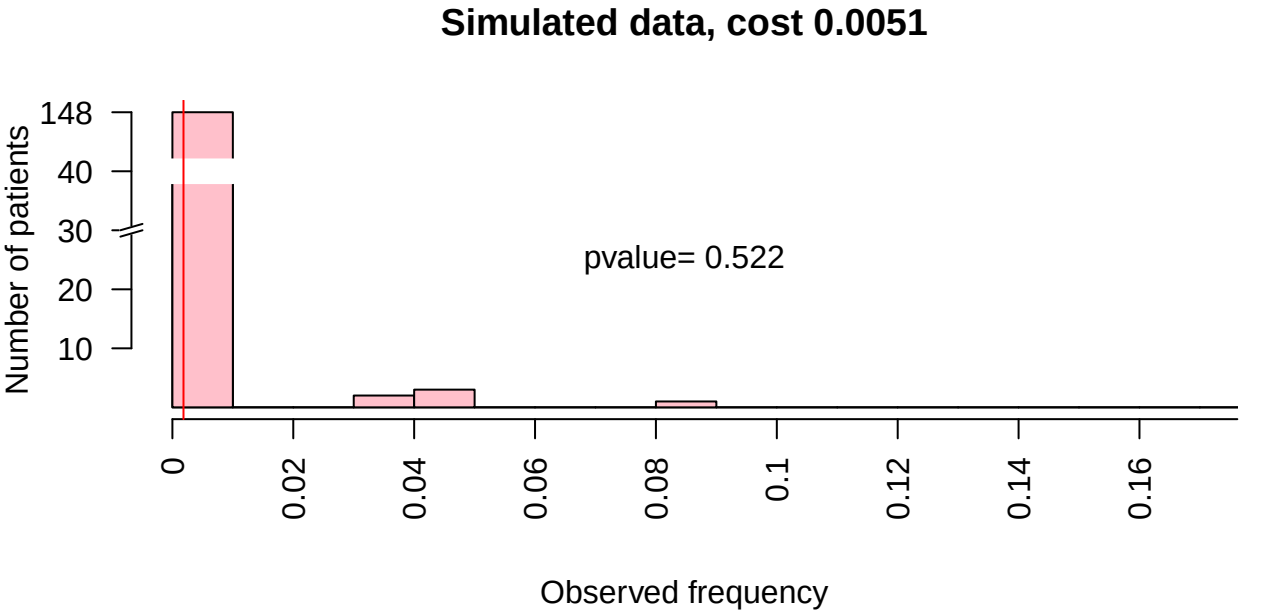

Single−SFS, site 439
Number of patients
146
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
Observed frequency

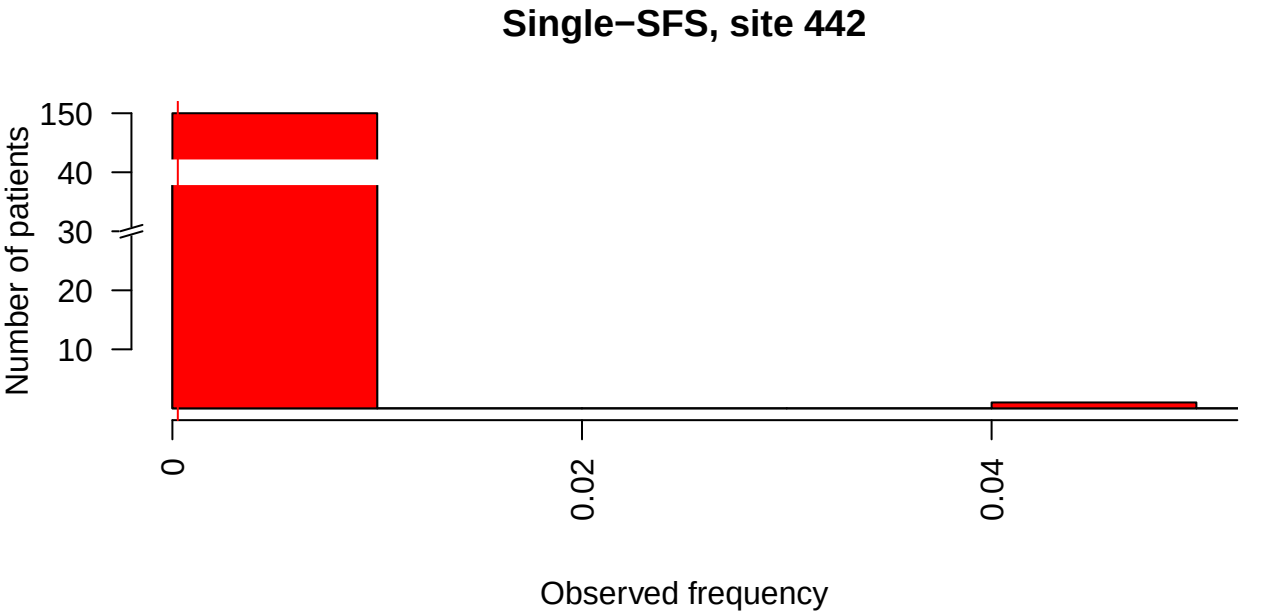

Simulated data, cost 0.0051
Number of patients
153
40
30
20
10
pvalue= 0.018
0
0.02
0.04
0.06
0.08
0.1
Observed frequency

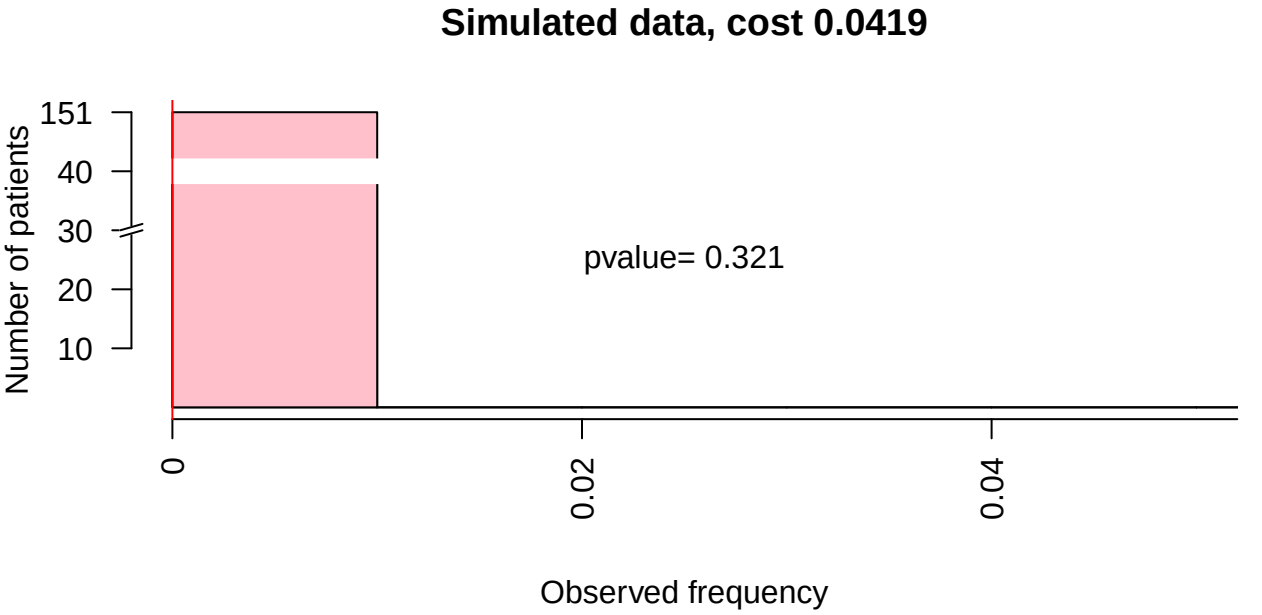

Single−SFS, site 440
Number of patients
157
40
30
20
10
0
Observed frequency

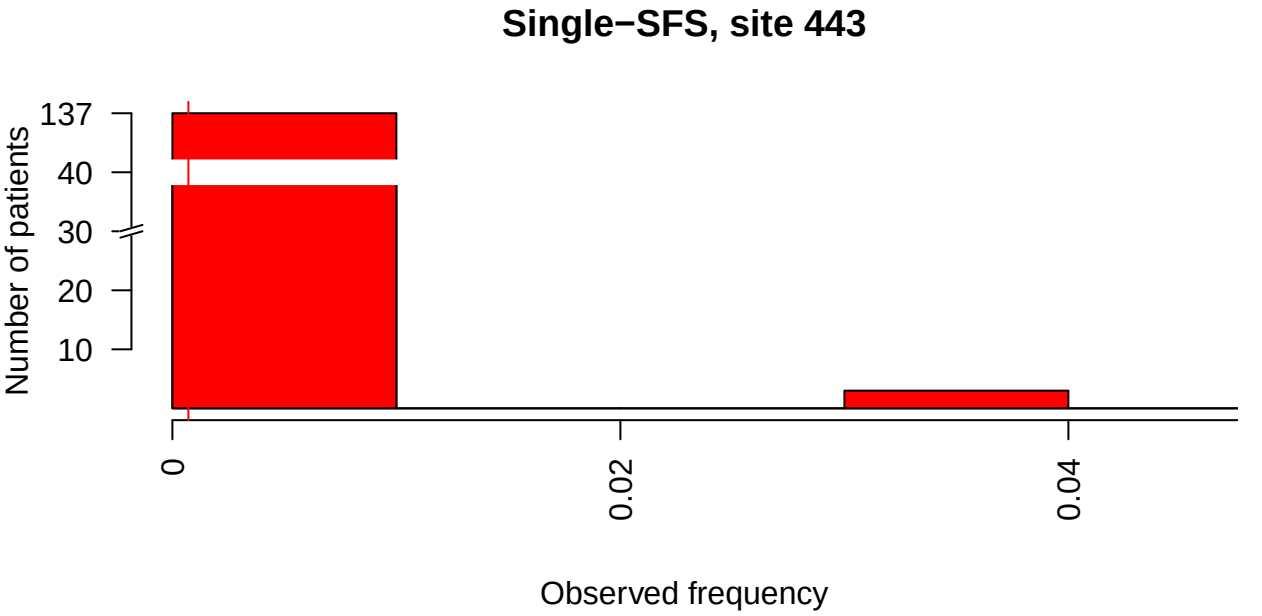

Simulated data, cost 1
Number of patients
157
40
30
20
10
0
pvalue= NaN
Observed frequency

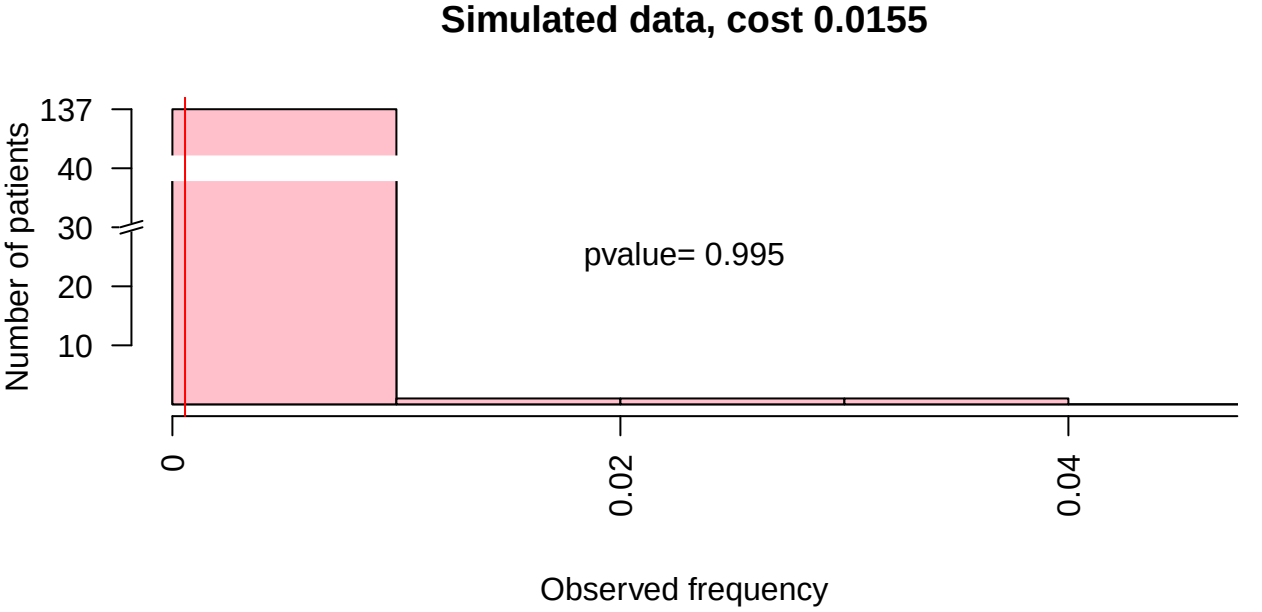

Single−SFS, site 441
Number of patients
150
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
Observed frequency

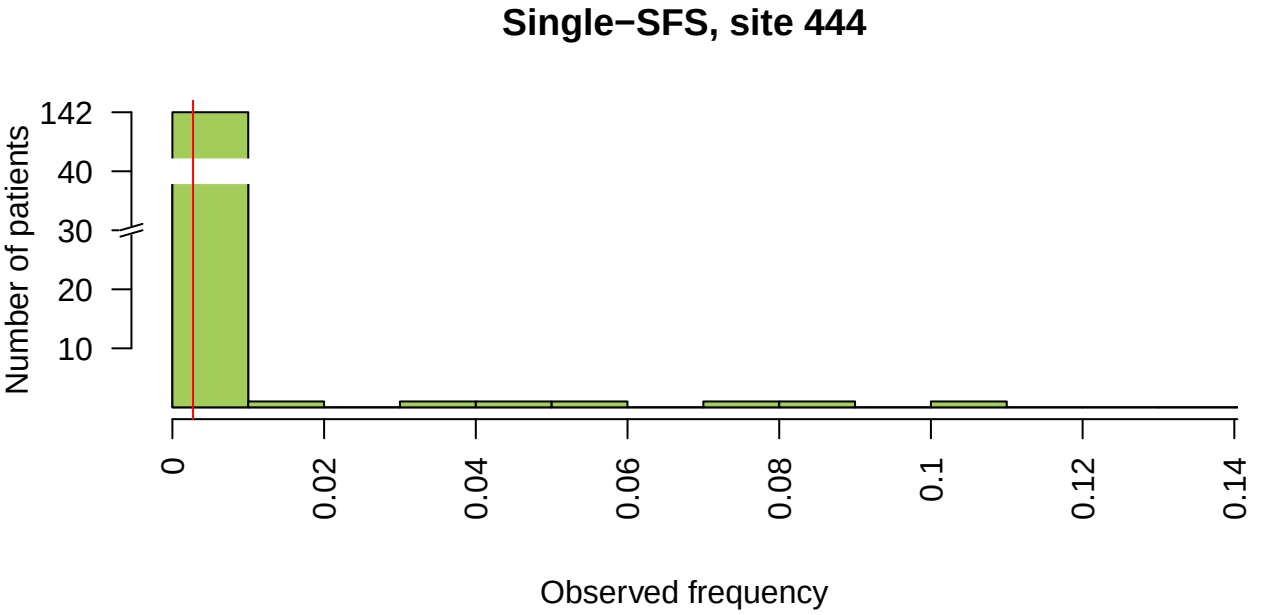

Simulated data, cost 0.0051
Number of patients
148
40
30
20
10
pvalue= 0.522
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
Observed frequency

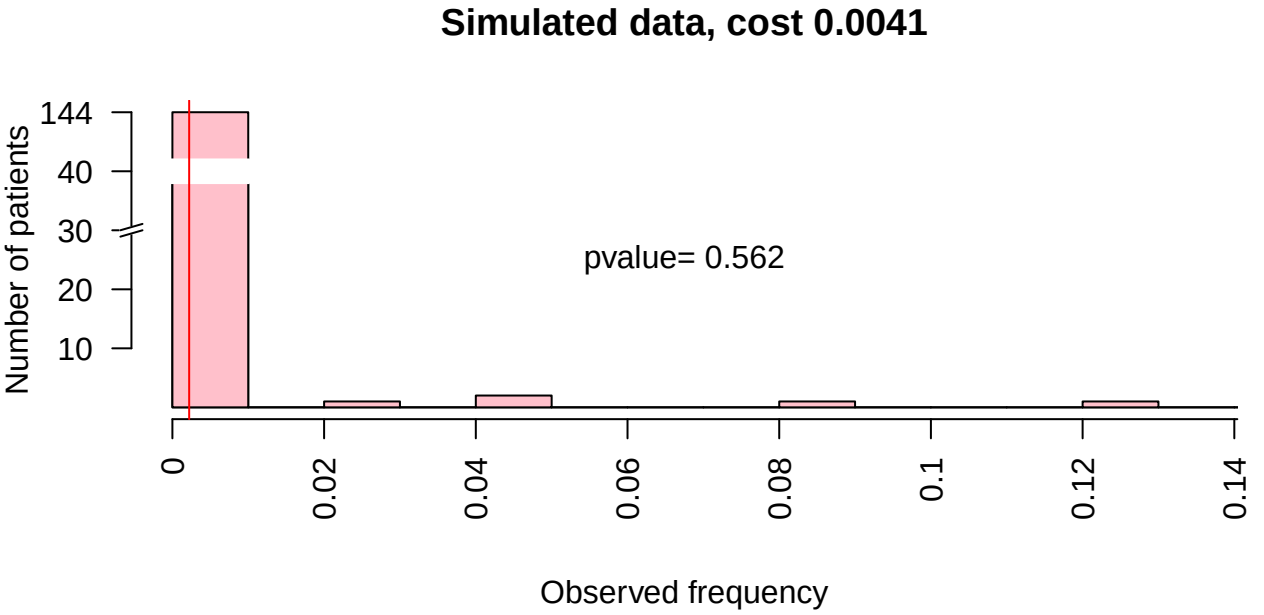

Single−SFS, site 442
Number of patients
150
40
30
20
10
0
0.02
0.04
Observed frequency

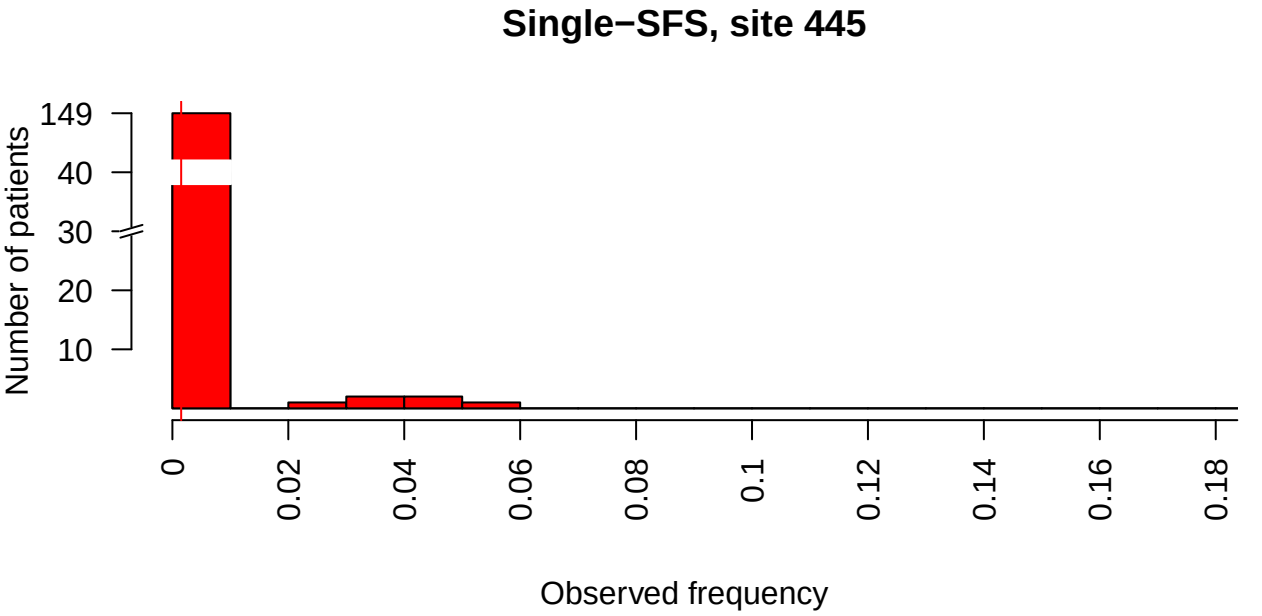

Simulated data, cost 0.0419
Number of patients
151
40
30
20
10
pvalue= 0.321
0
0.02
0.04
Observed frequency

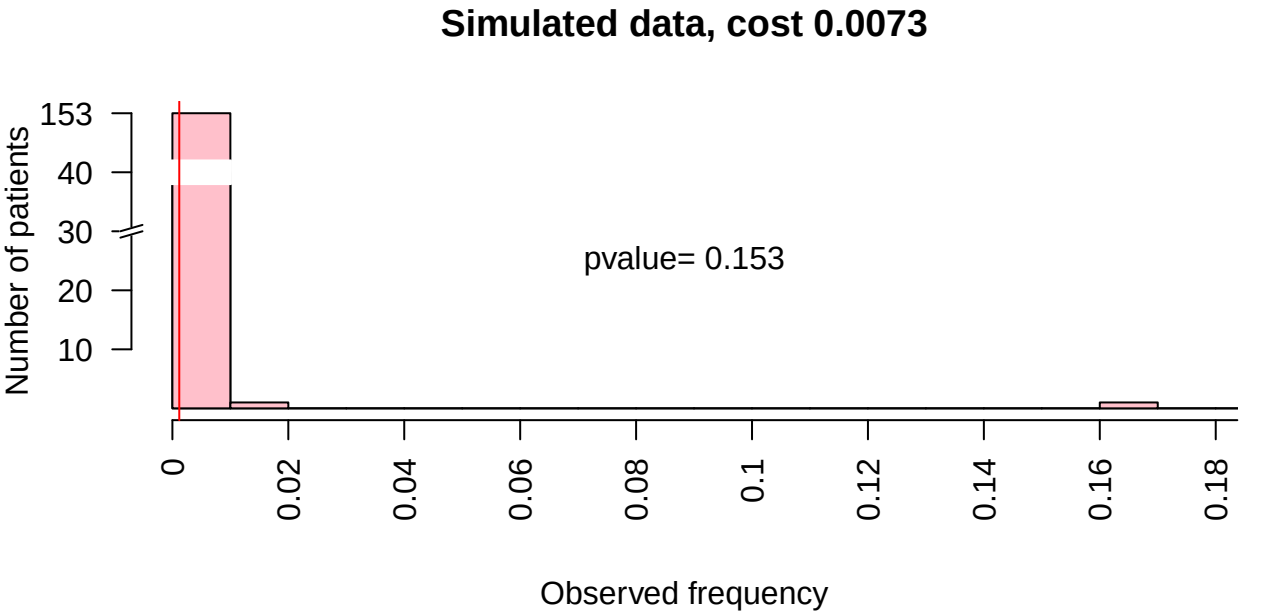

Single−SFS, site 443
Number of patients
137
40
30
20
10
0
0.02
0.04
Observed frequency

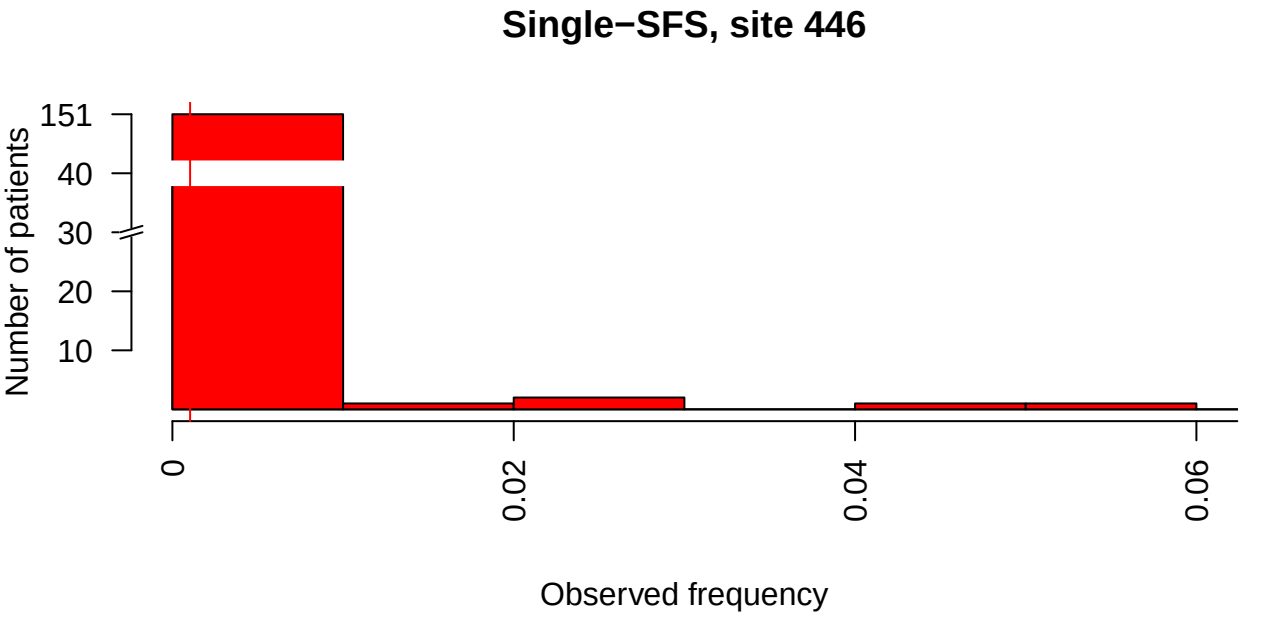

Simulated data, cost 0.0155
Number of patients
137
40
30
20
10
pvalue= 0.995
0
0.02
0.04
Observed frequency

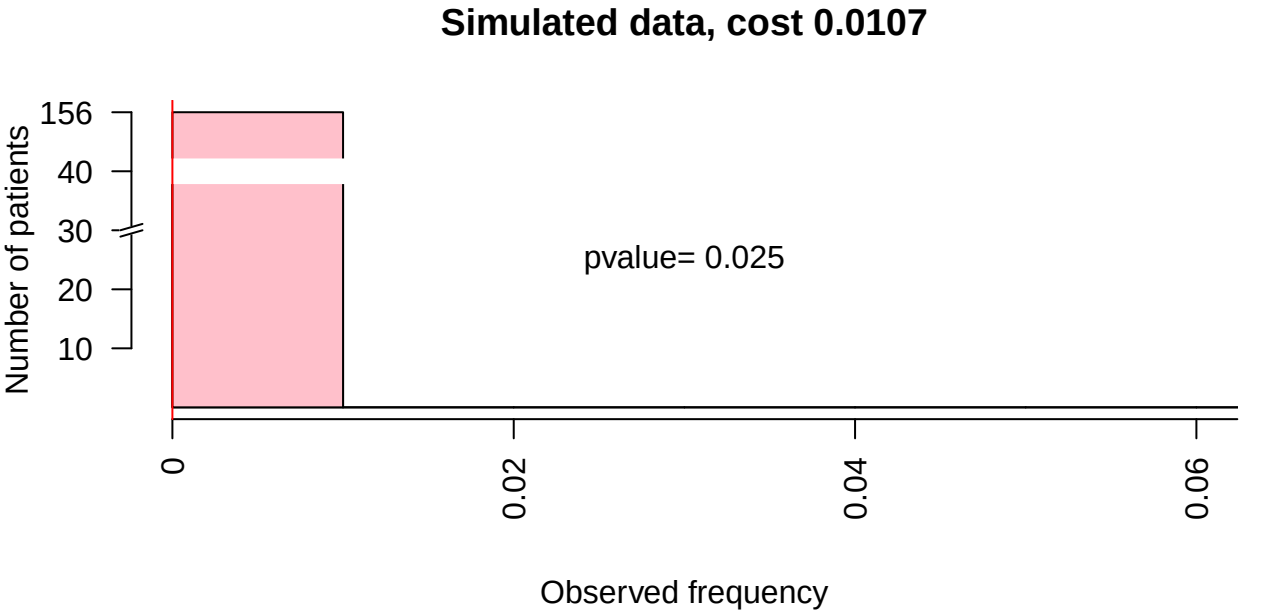

Single−SFS, site 444
Number of patients
142
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
Observed frequency

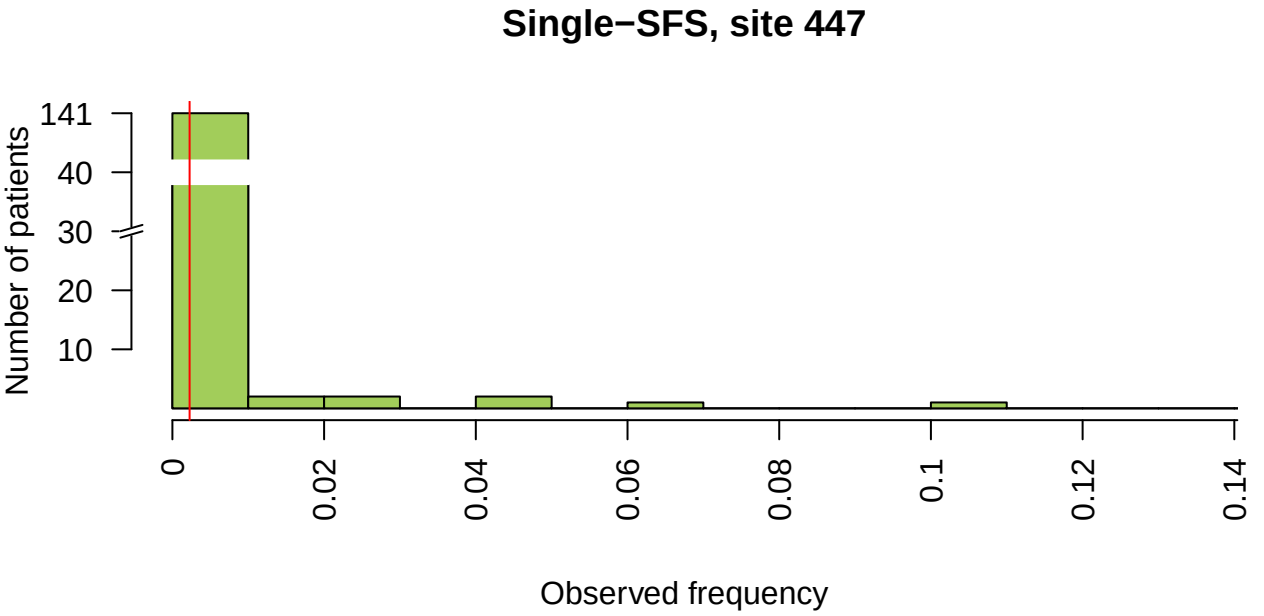

Simulated data, cost 0.0041
Number of patients
144
40
30
20
10
pvalue= 0.562
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
Observed frequency

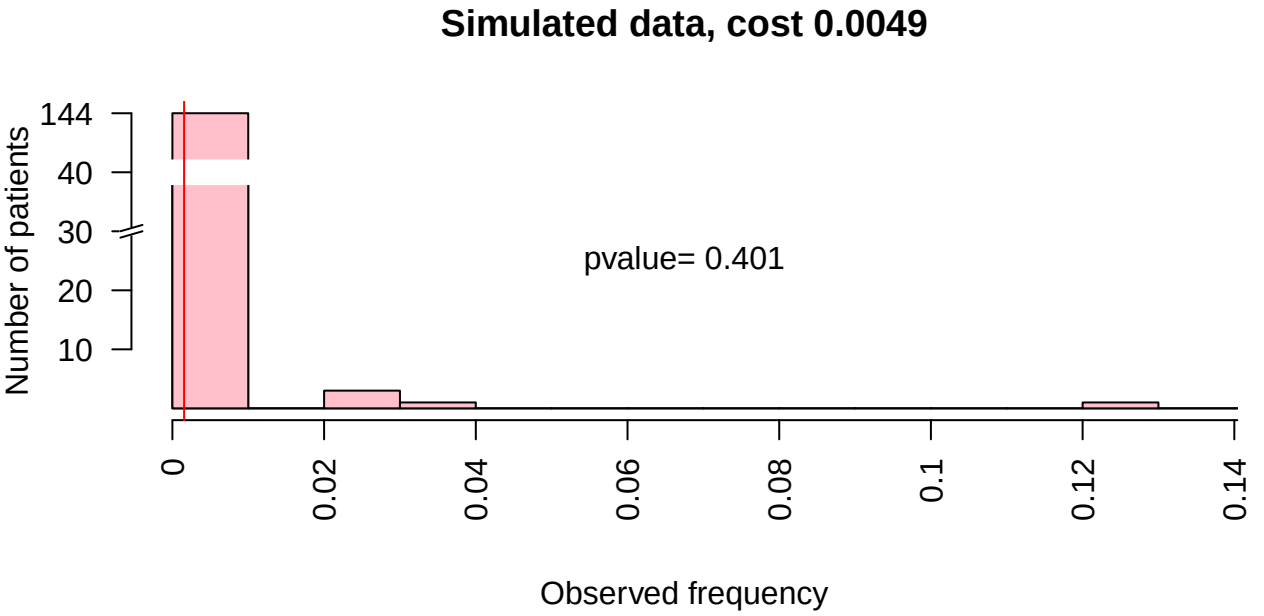

Single−SFS, site 445
Number of patients
149
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
Observed frequency

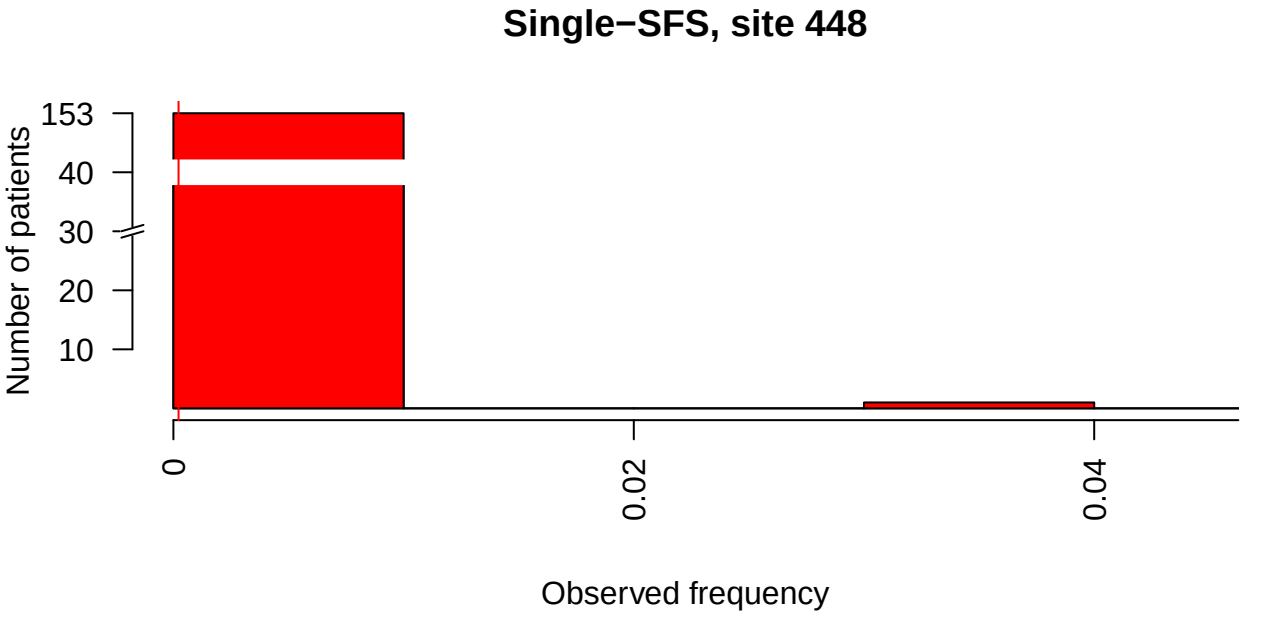

Simulated data, cost 0.0073
Number of patients
153
40
30
20
10
pvalue= 0.153
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
Observed frequency

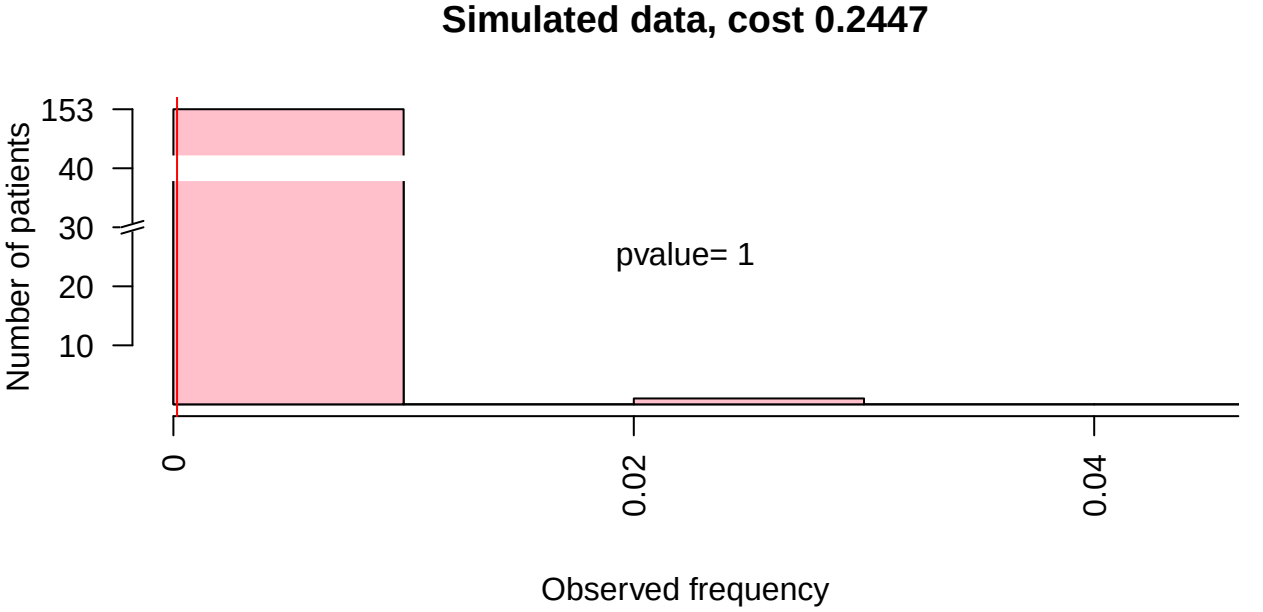

Single−SFS, site 446
Number of patients
151
40
30
20
10
0
0.02
0.04
0.06
Observed frequency

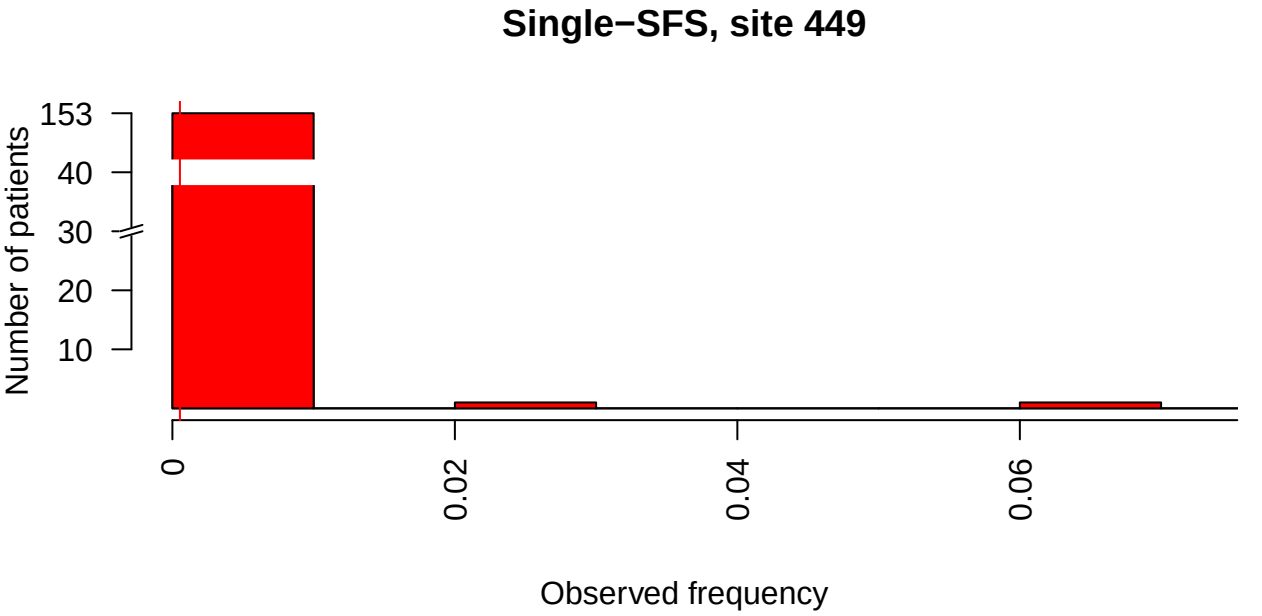

Simulated data, cost 0.0107
Number of patients
156
40
30
20
10
pvalue= 0.025
0
0.02
0.04
0.06
Observed frequency

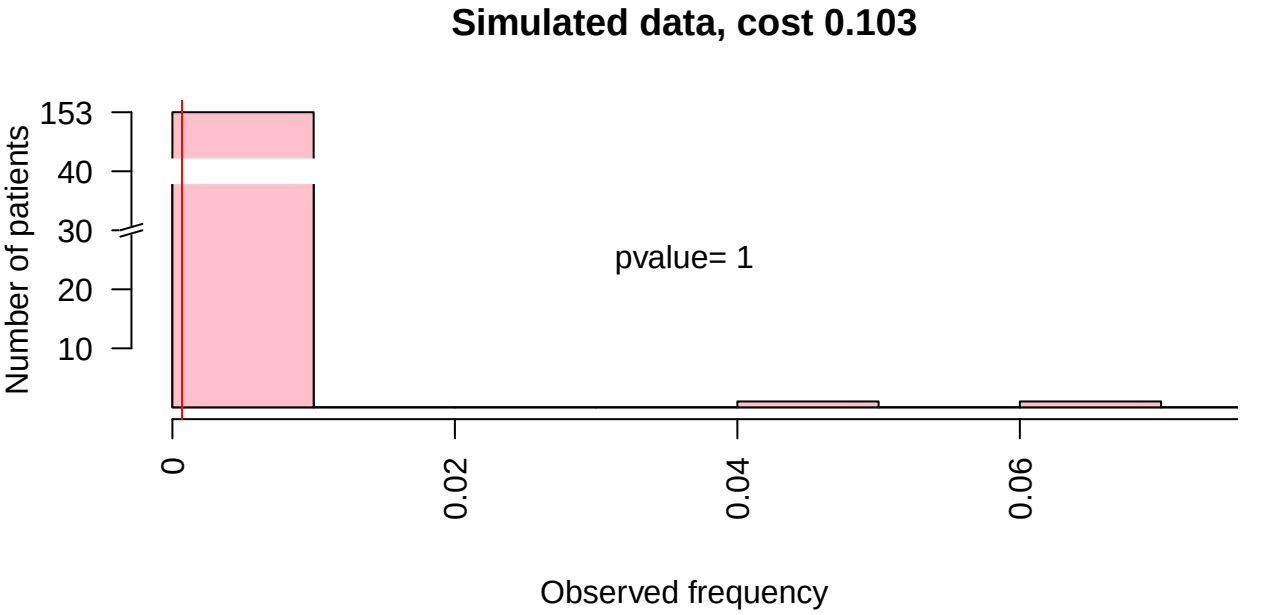

Single−SFS, site 447
Number of patients
141
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
Observed frequency

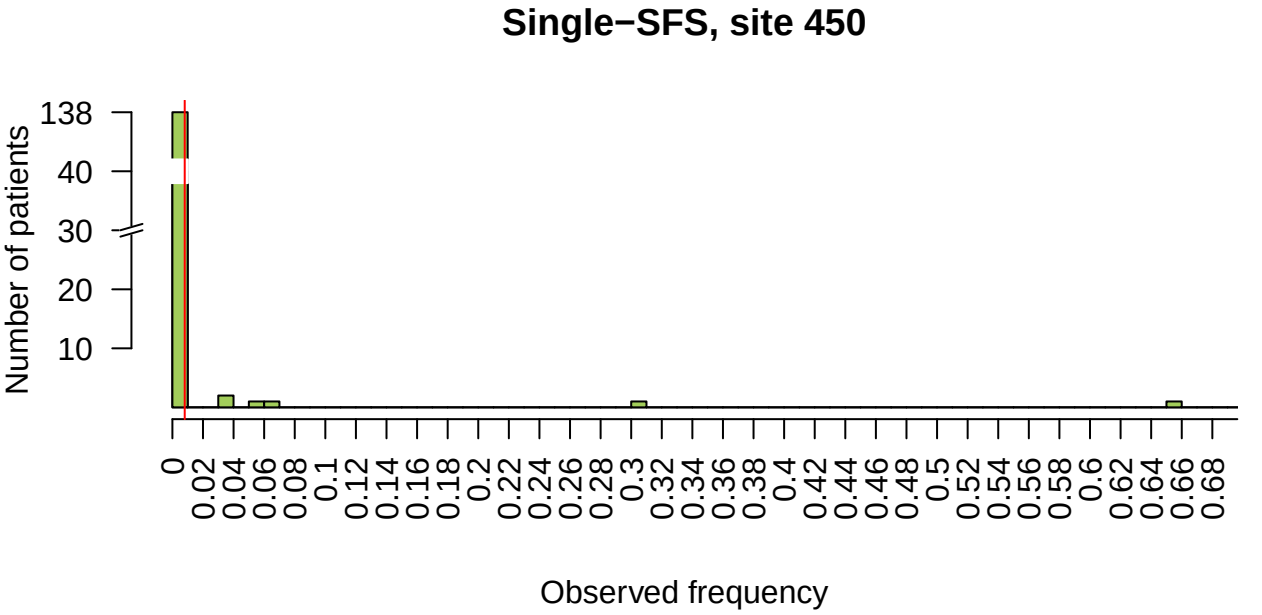

Simulated data, cost 0.0049
Number of patients
144
40
30
20
10
pvalue= 0.401
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
Observed frequency

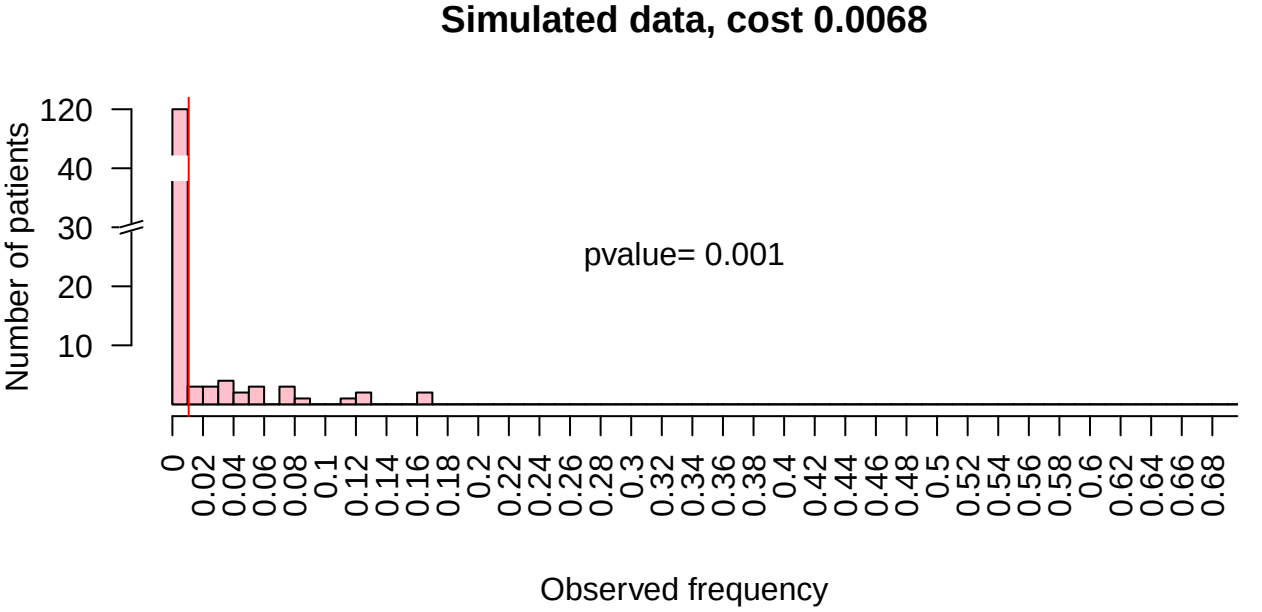

Single−SFS, site 448
Number of patients
153
40
30
20
10
0
0.02
0.04
Observed frequency

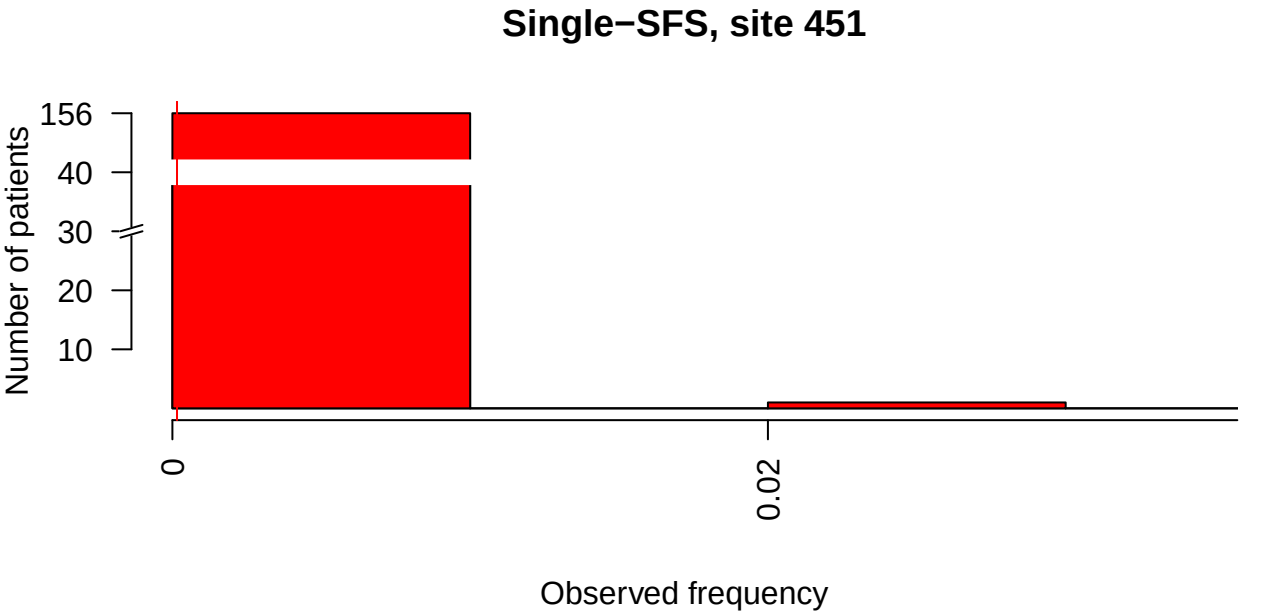

Simulated data, cost 0.2447
Number of patients
153
40
30
20
10
pvalue= 1
0
0.02
0.04
Observed frequency

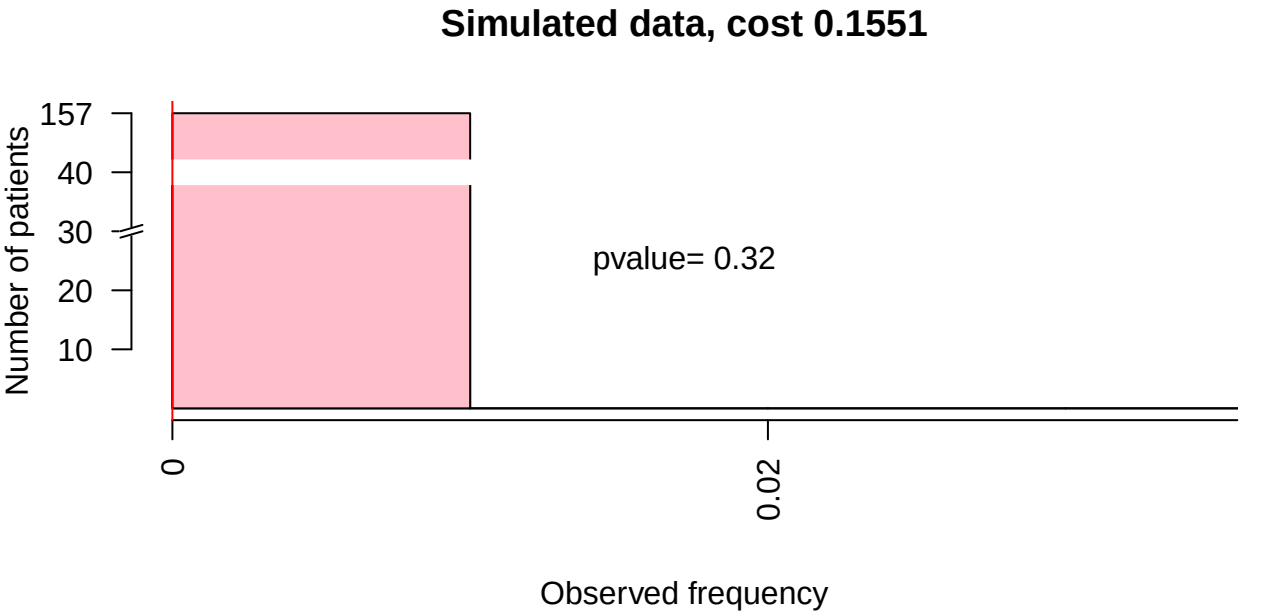

Single−SFS, site 449
Number of patients
153
40
30
20
10
0
0.02
0.04
0.06
Observed frequency

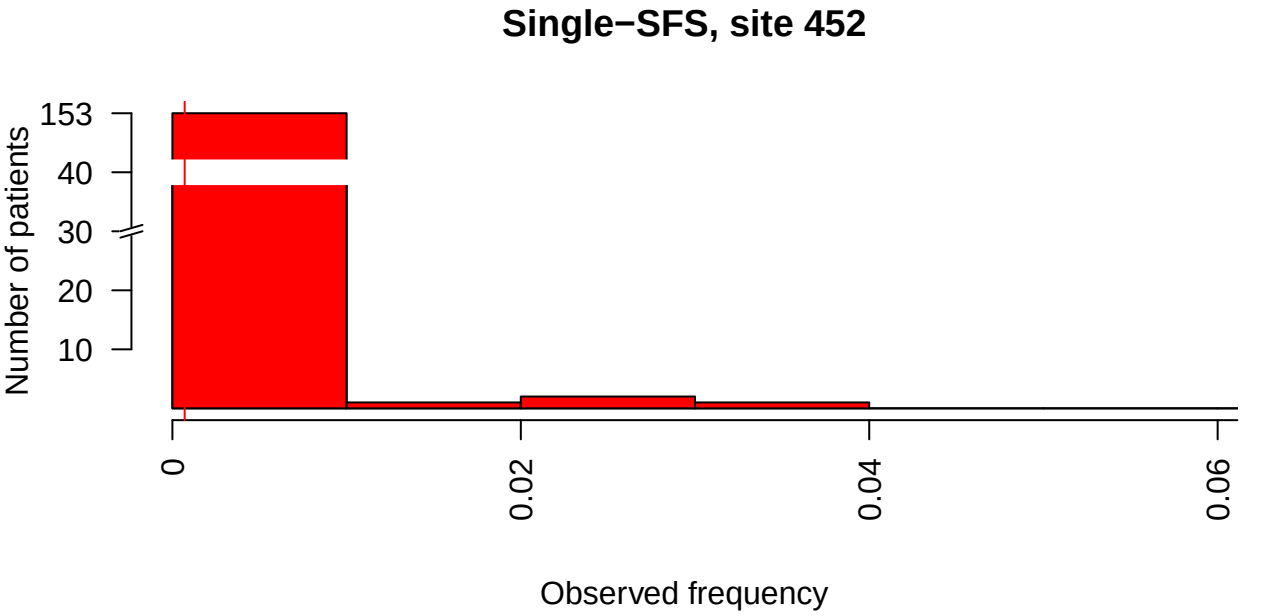

Simulated data, cost 0.103
Number of patients
153
40
30
20
10
pvalue= 1
0
0.02
0.04
0.06
Observed frequency

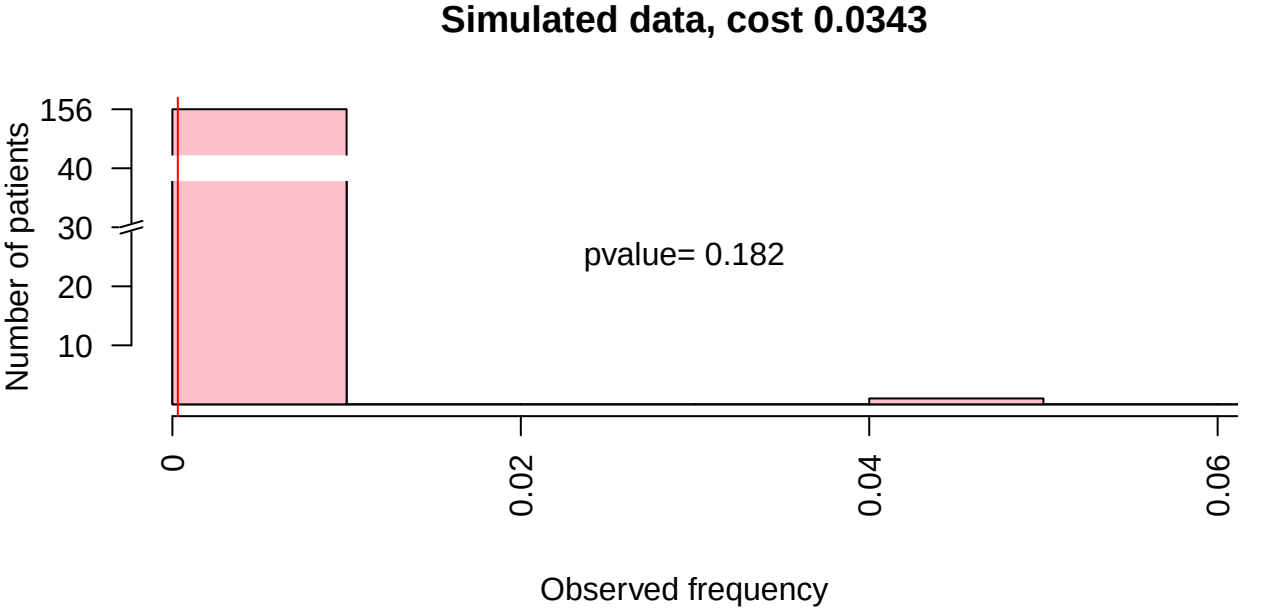

Single−SFS, site 450
Number of patients
138
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
0.24
0.26
0.28
0.3
0.32
0.34
0.36
0.38
0.4
0.42
0.44
0.46
0.48
0.5
0.52
0.54
0.56
0.58
0.6
0.62
0.64
0.66
0.68
Observed frequency

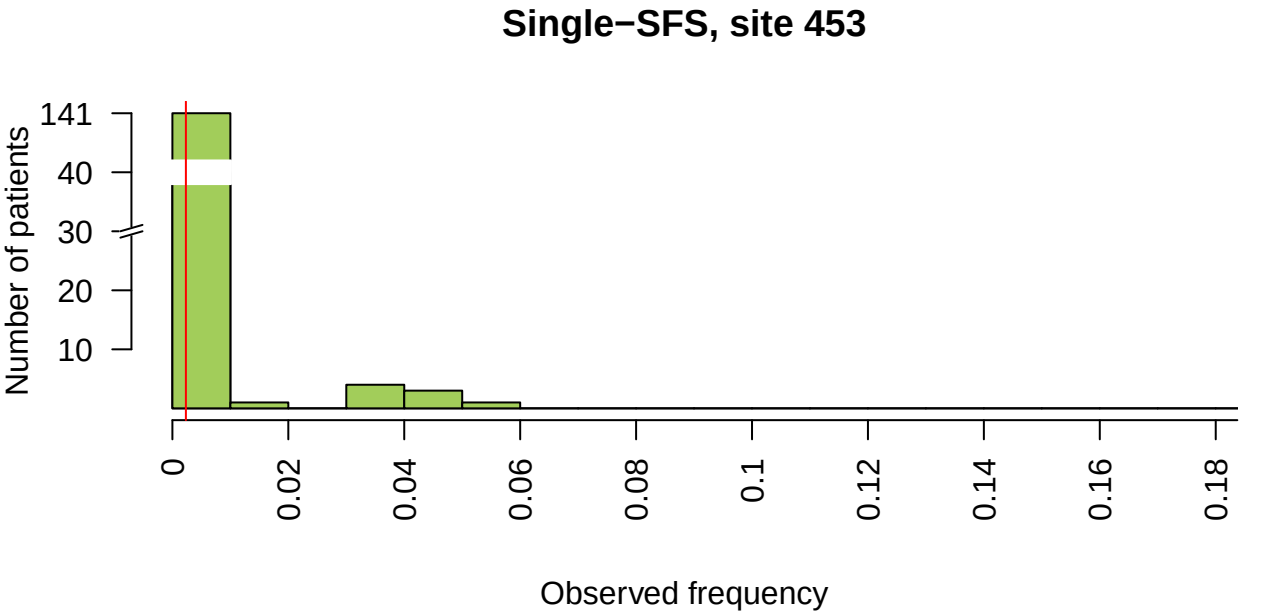

Simulated data, cost 0.0068
Number of patients
120
40
30
20
10
pvalue= 0.001
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
0.24
0.26
0.28
0.3
0.32
0.34
0.36
0.38
0.4
0.42
0.44
0.46
0.48
0.5
0.52
0.54
0.56
0.58
0.6
0.62
0.64
0.66
0.68
Observed frequency

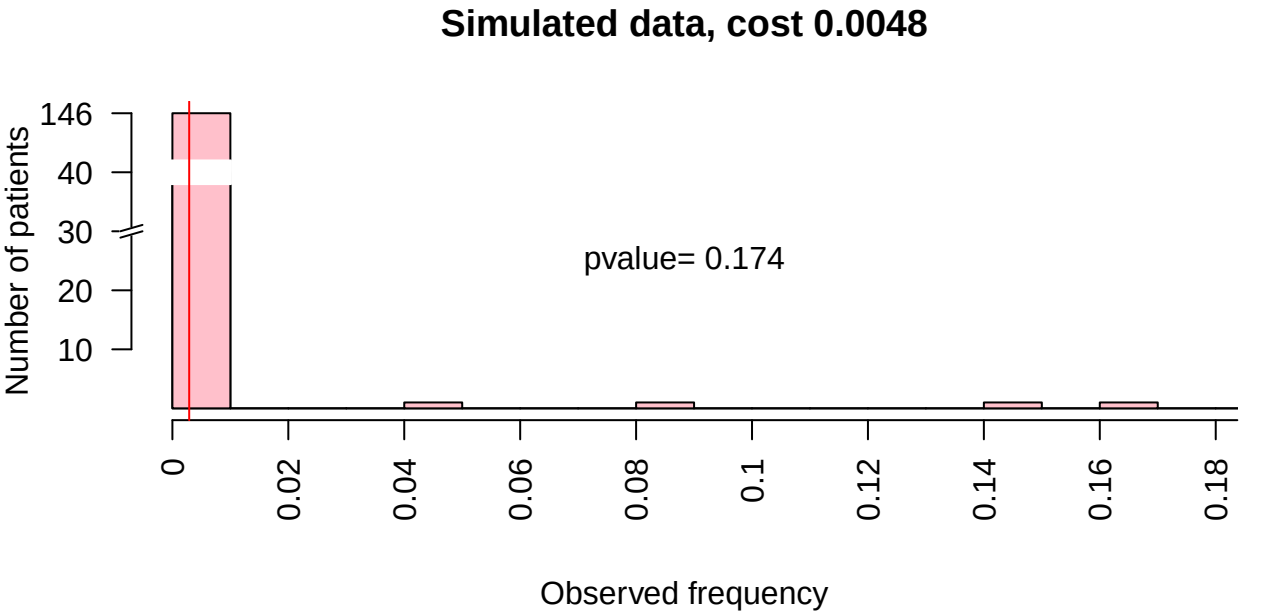

Single−SFS, site 451
Number of patients
156
40
30
20
10
0
0.02
Observed frequency

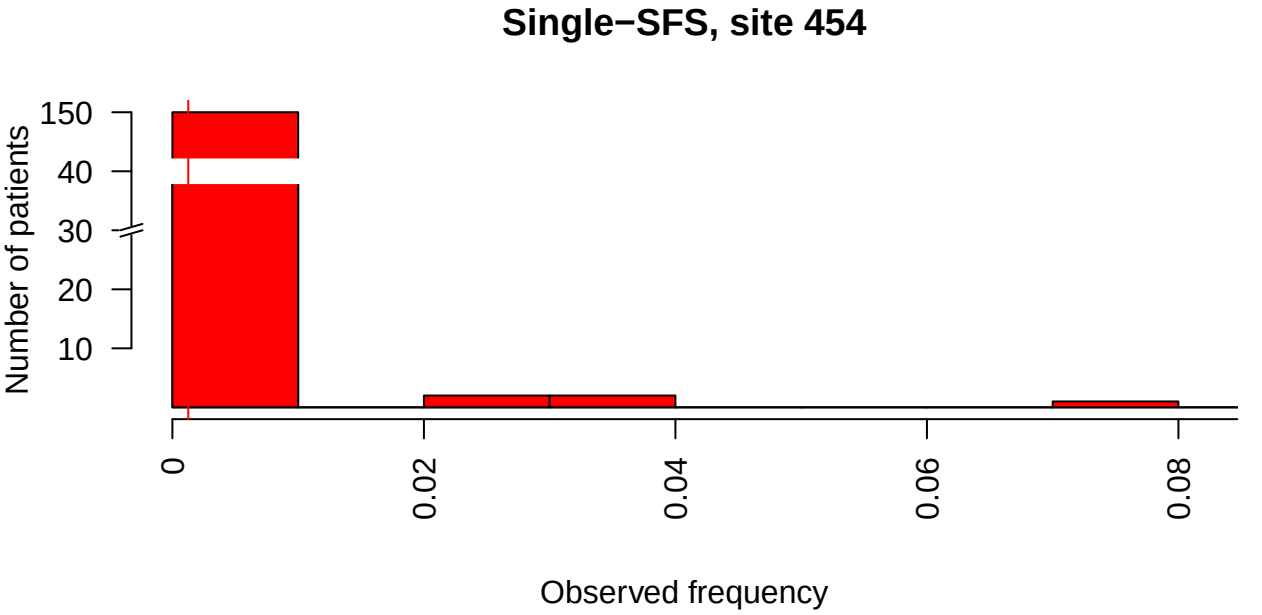

Simulated data, cost 0.1551
Number of patients
157
40
30
20
10
pvalue= 0.32
0
0.02
Observed frequency

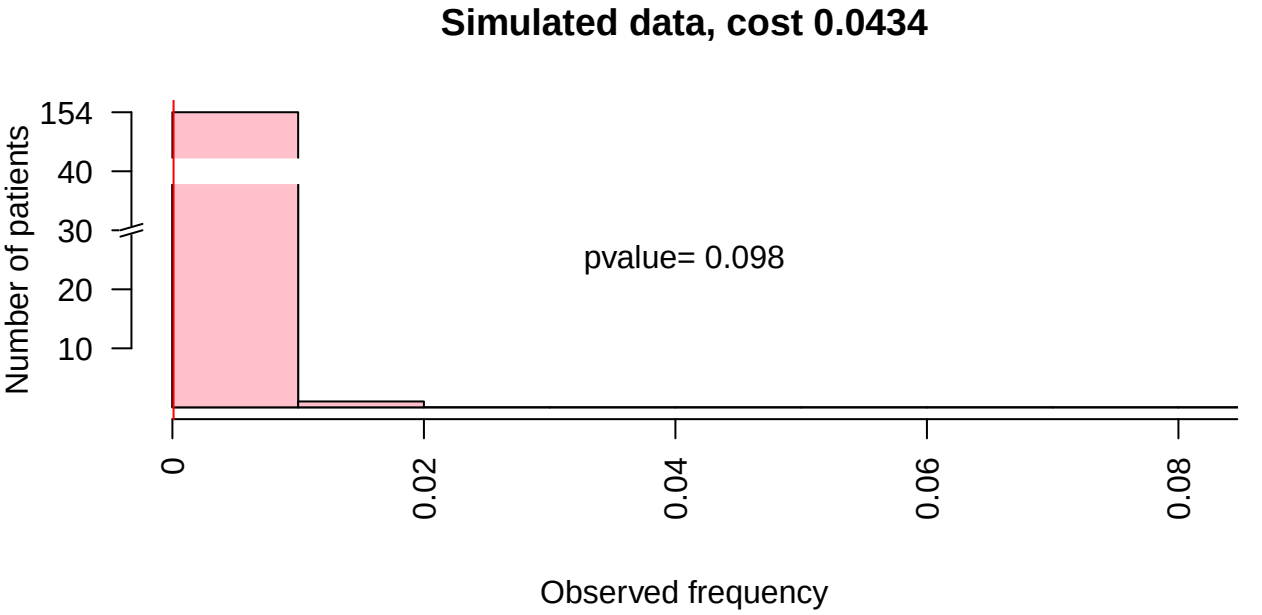

Single−SFS, site 452
Number of patients
153
40
30
20
10
0
0.02
0.04
0.06
Observed frequency

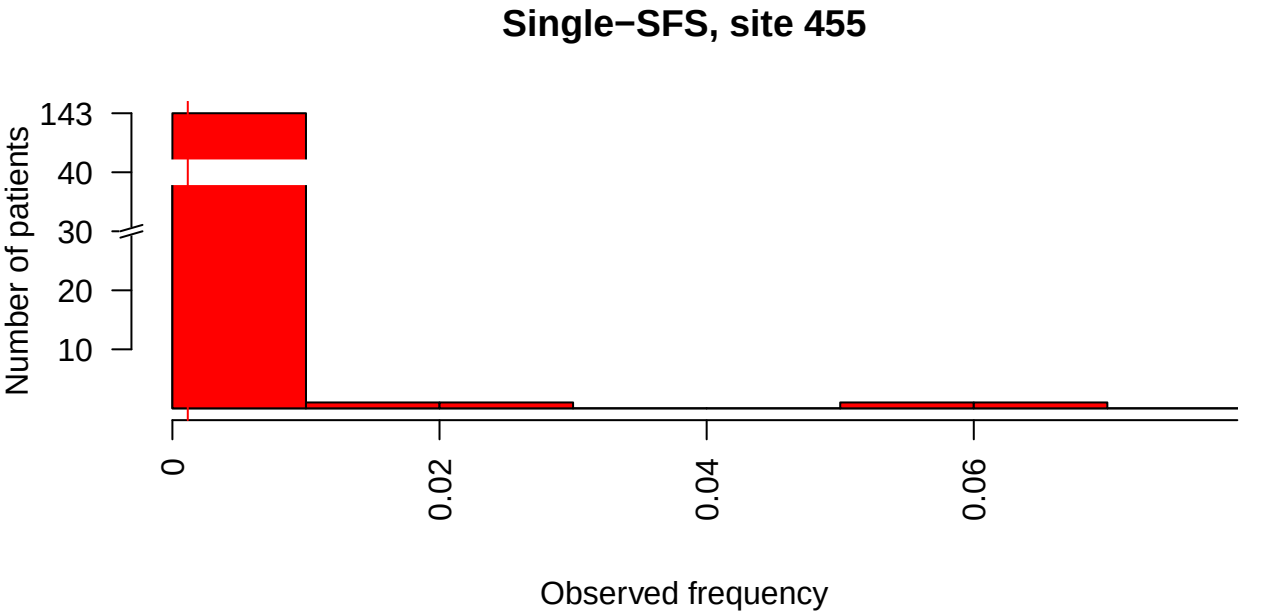

Simulated data, cost 0.0343
Number of patients
156
40
30
20
10
pvalue= 0.182
0
0.02
0.04
0.06
Observed frequency

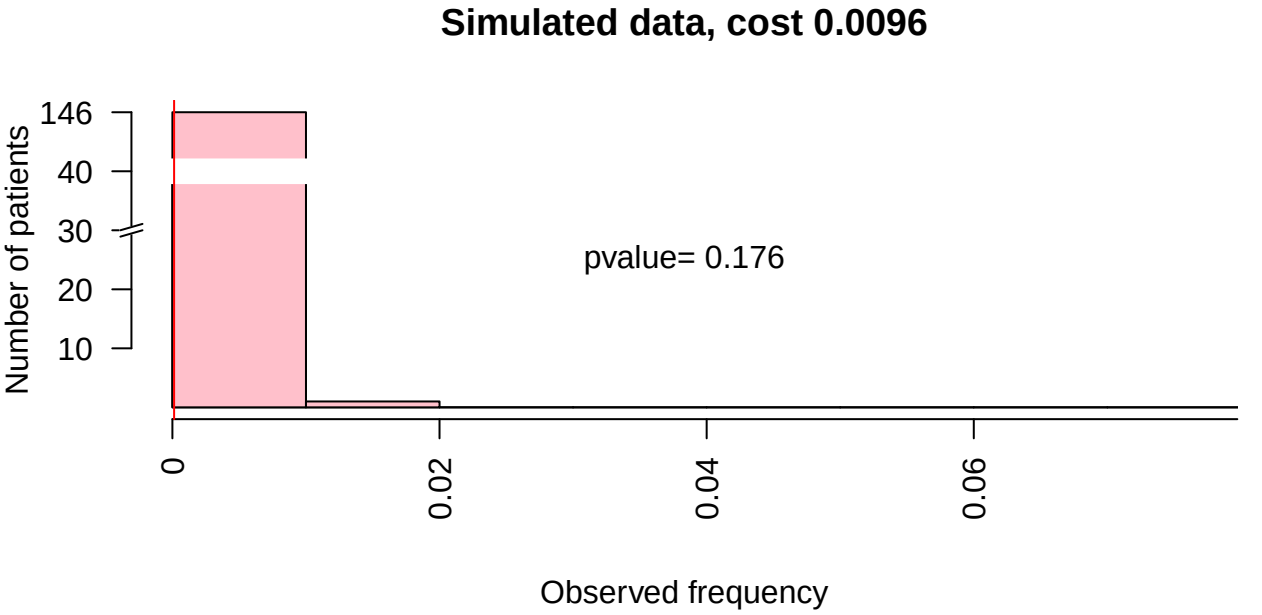

Single−SFS, site 453
Number of patients
141
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
Observed frequency

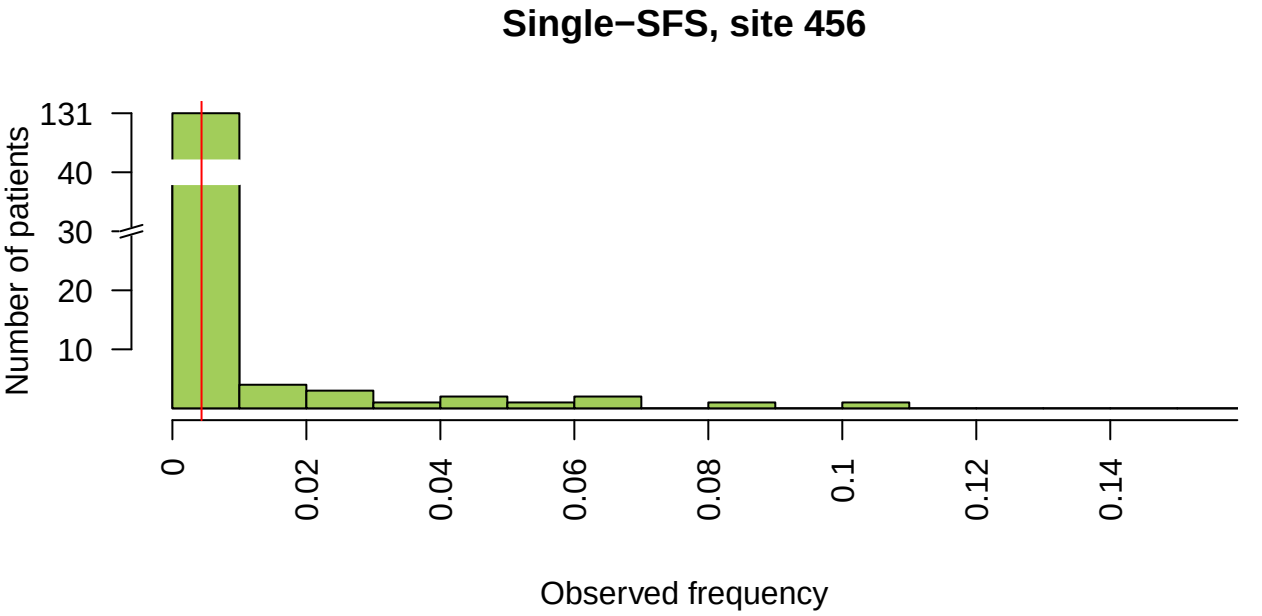

Simulated data, cost 0.0048
Number of patients
146
40
30
20
10
pvalue= 0.174
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
Observed frequency

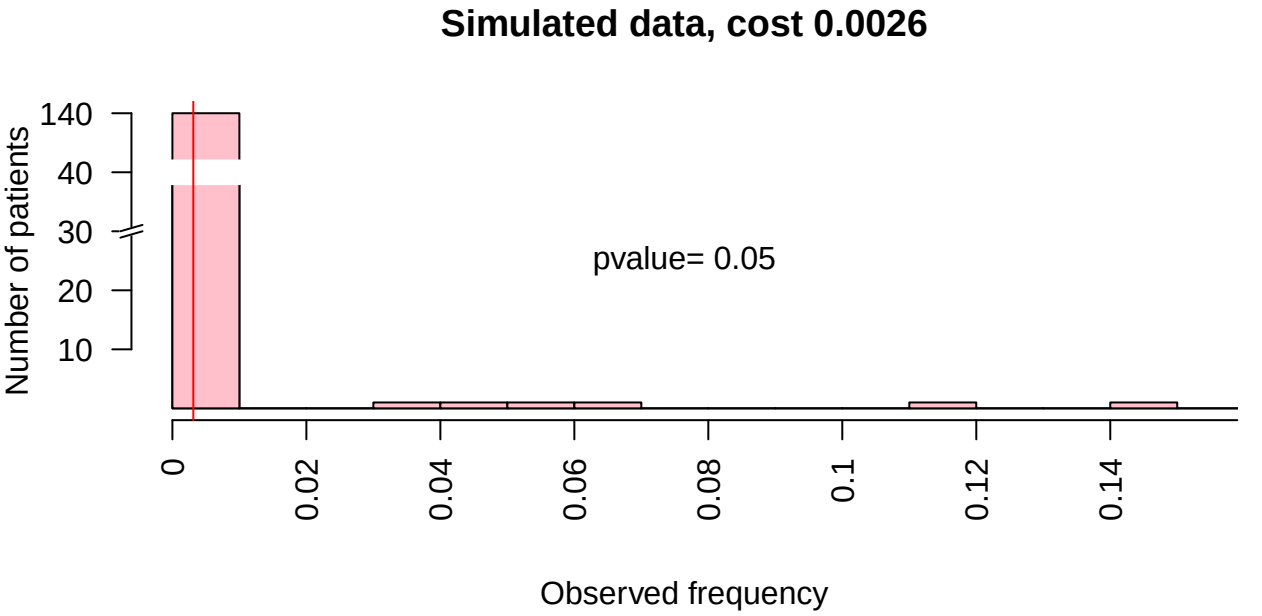

Single−SFS, site 454
Number of patients
150
40
30
20
10
0
0.02
0.04
0.06
0.08
Observed frequency

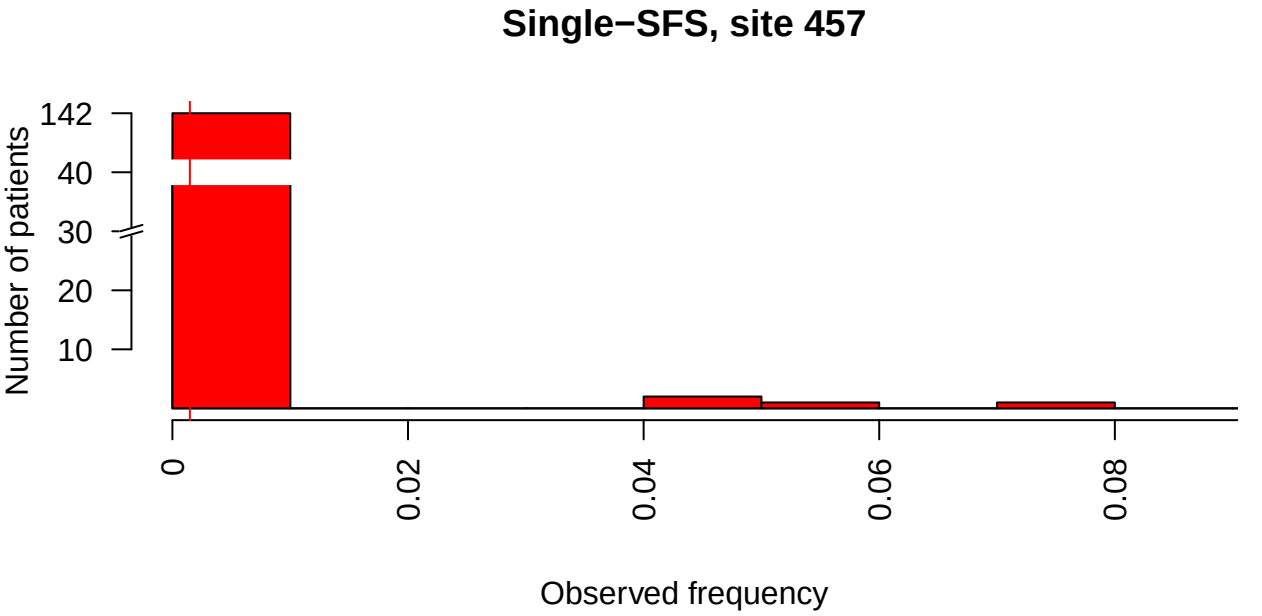

Simulated data, cost 0.0434
Number of patients
154
40
30
20
10
pvalue= 0.098
0
0.02
0.04
0.06
0.08
Observed frequency

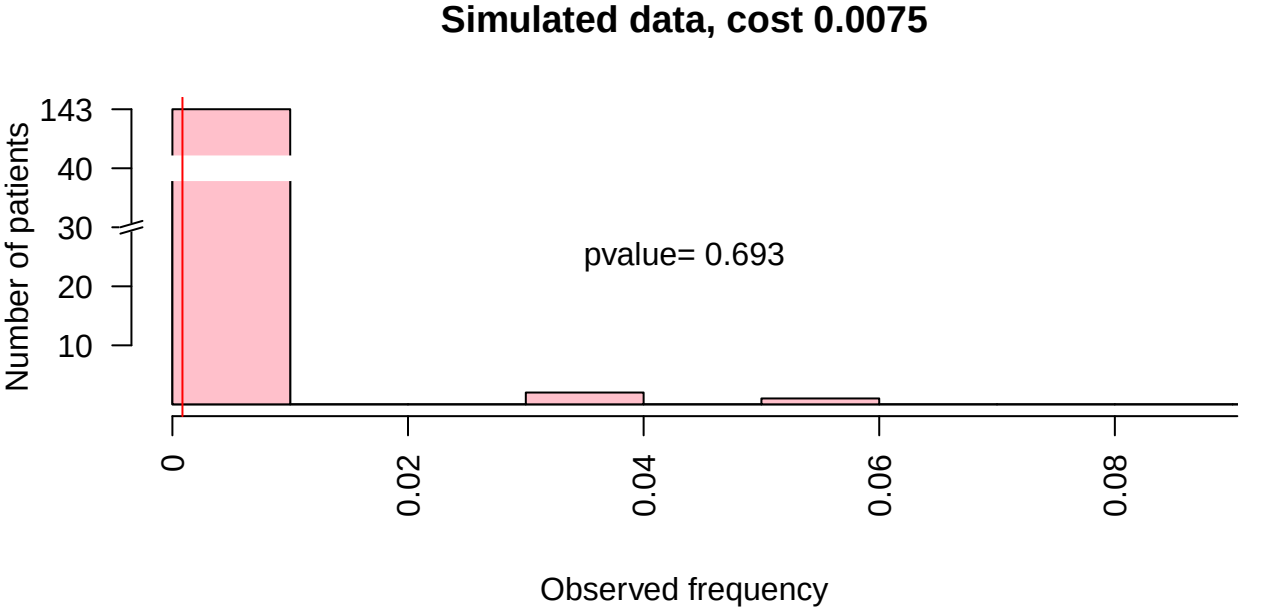

Single−SFS, site 455
Number of patients
143
40
30
20
10
0
0.02
0.04
0.06
Observed frequency

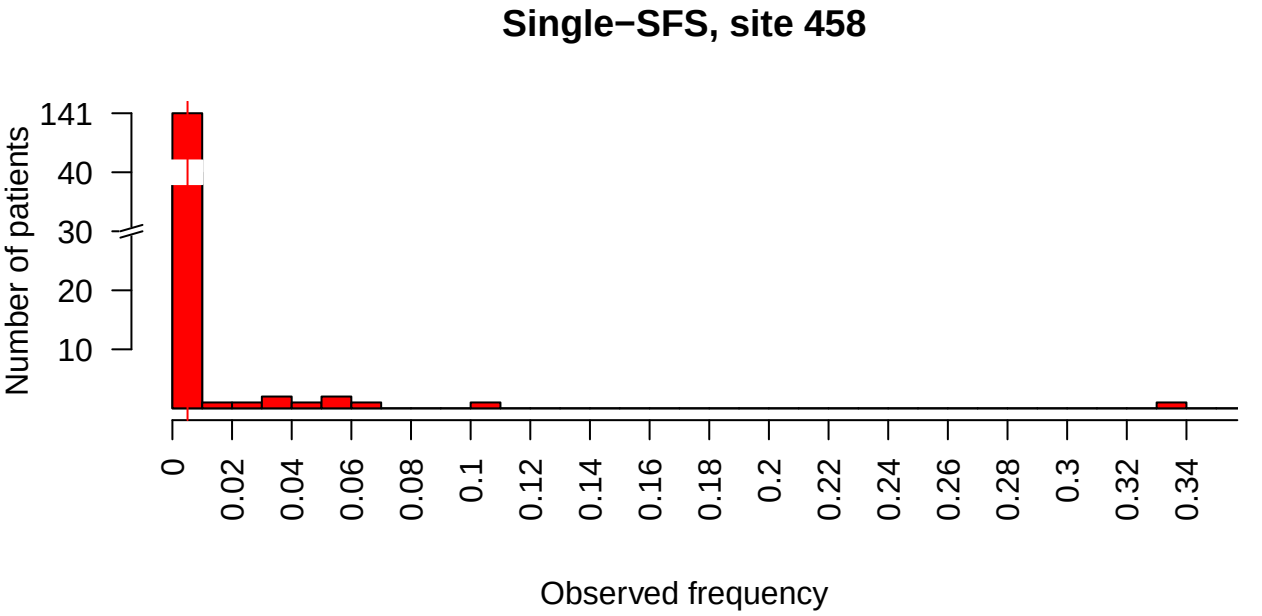

Simulated data, cost 0.0096
Number of patients
146
40
30
20
10
pvalue= 0.176
0
0.02
0.04
0.06
Observed frequency

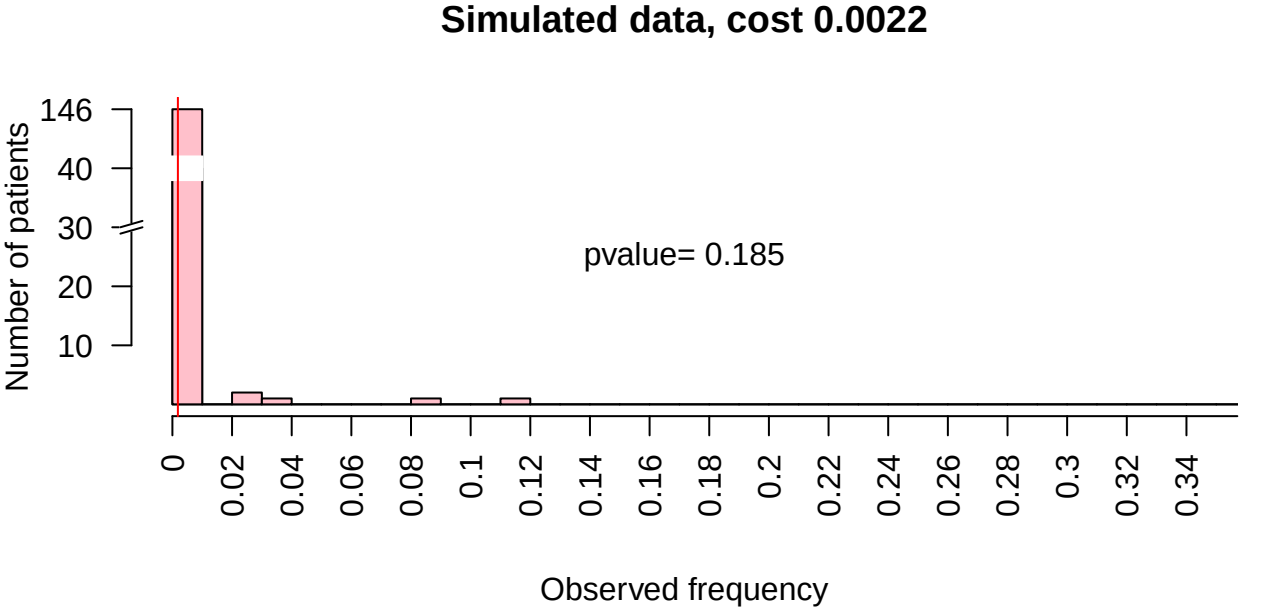

Single−SFS, site 456
Number of patients
131
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
Observed frequency

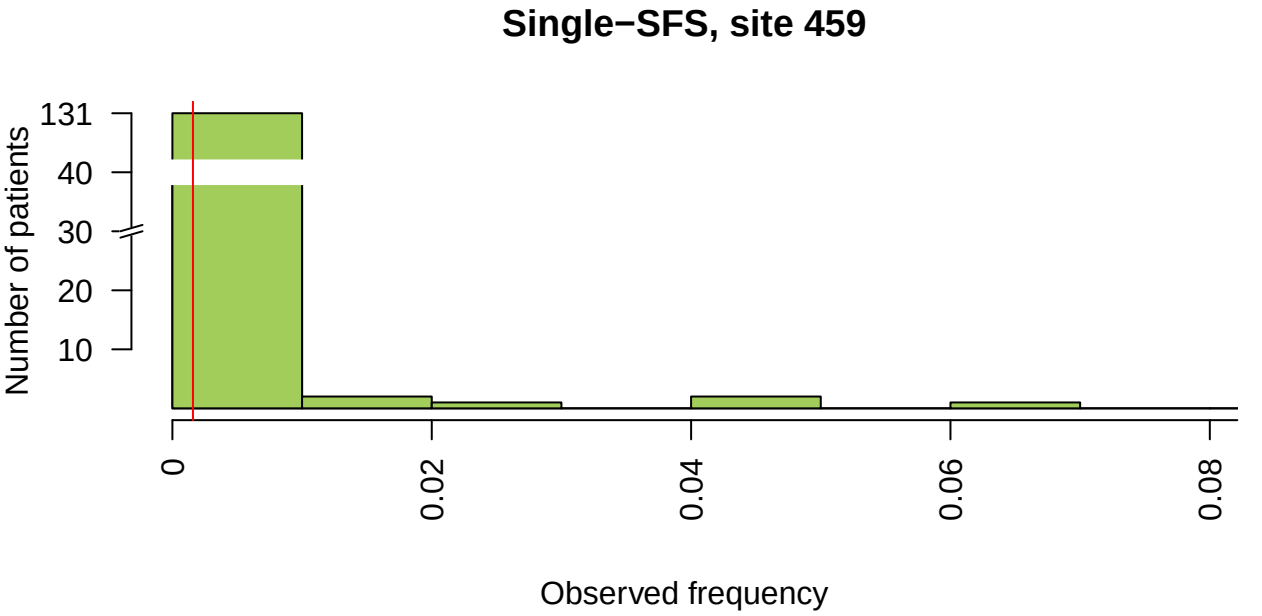

Simulated data, cost 0.0026
Number of patients
140
40
30
20
10
pvalue= 0.05
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
Observed frequency

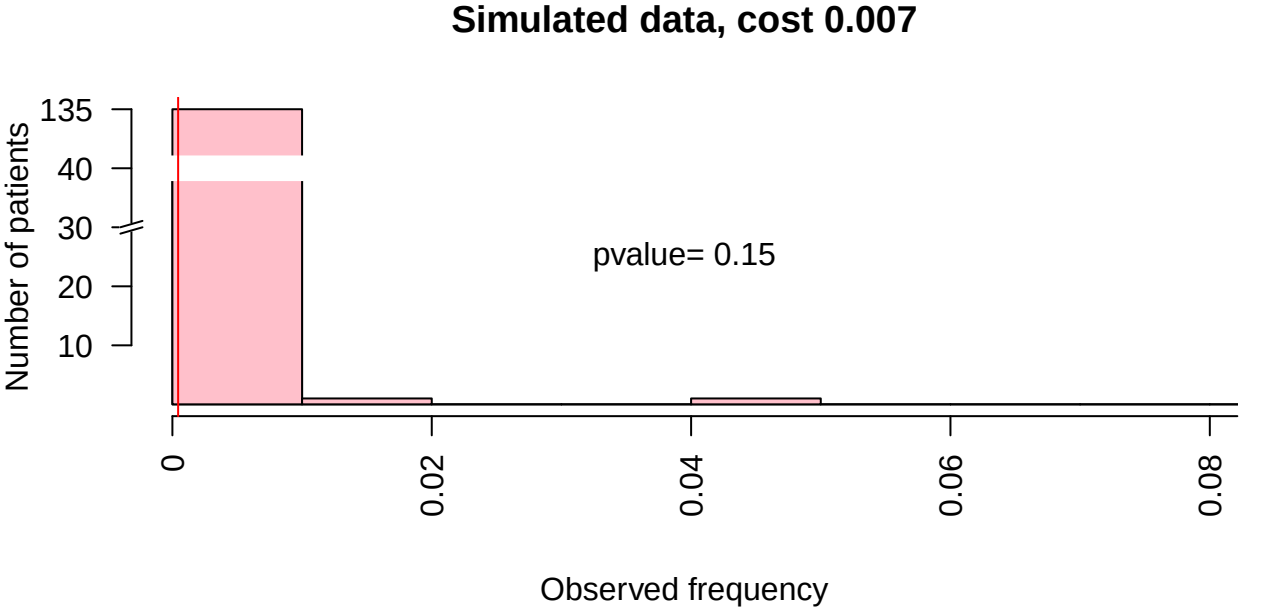

Single−SFS, site 457
Number of patients
142
40
30
20
10
0
0.02
0.04
0.06
0.08
Observed frequency

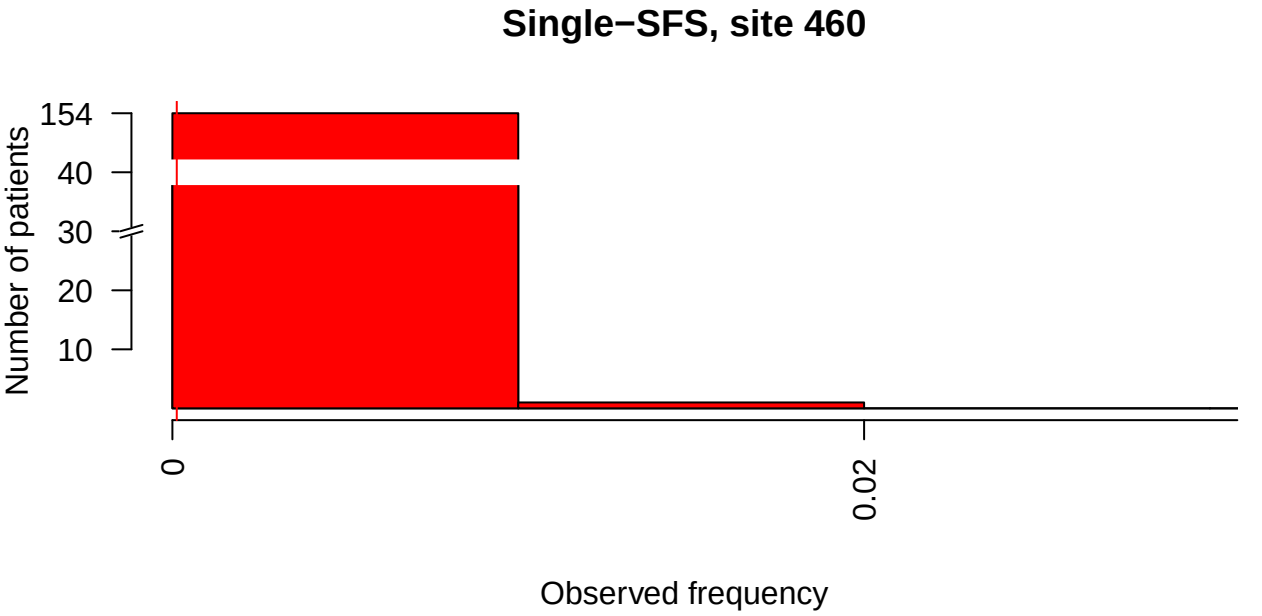

Simulated data, cost 0.0075
Number of patients
143
40
30
20
10
pvalue= 0.693
0
0.02
0.04
0.06
0.08
Observed frequency

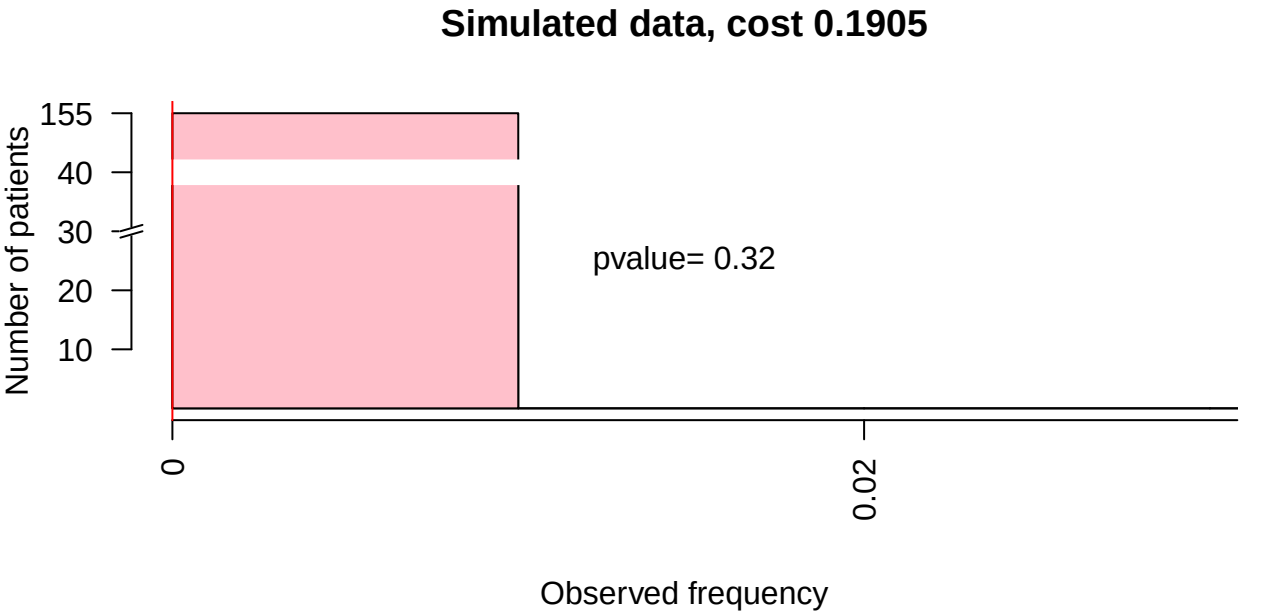

Single−SFS, site 458
Number of patients
141
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
0.24
0.26
0.28
0.3
0.32
0.34
Observed frequency

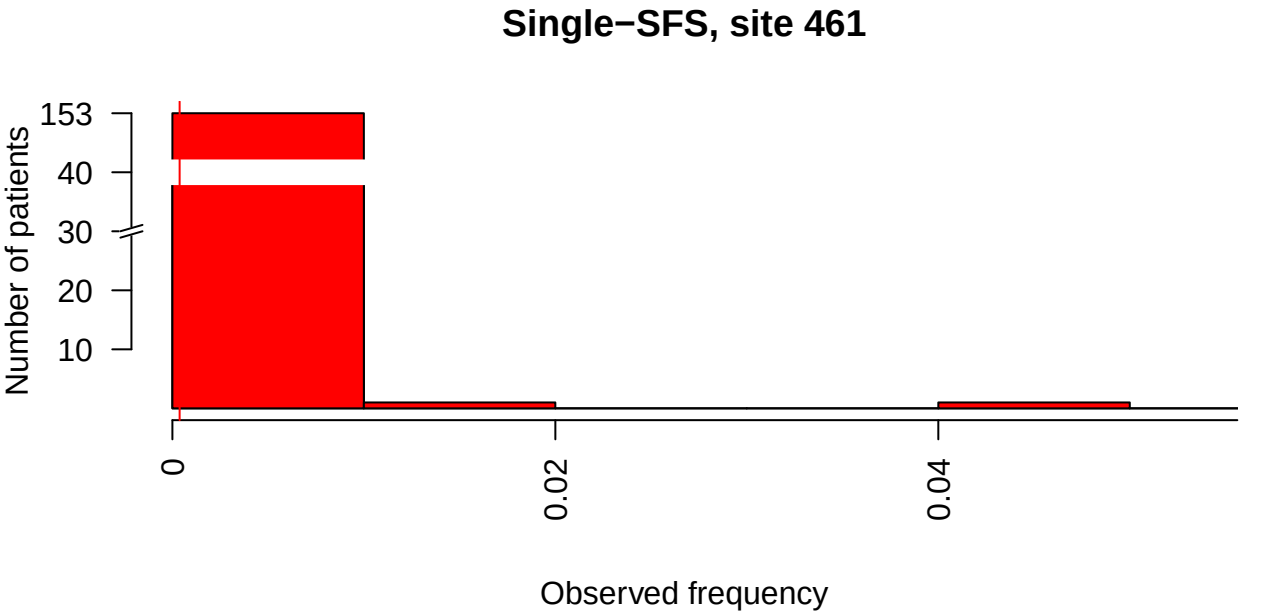

Simulated data, cost 0.0022
Number of patients
146
40
30
20
10
pvalue= 0.185
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
0.24
0.26
0.28
0.3
0.32
0.34
Observed frequency

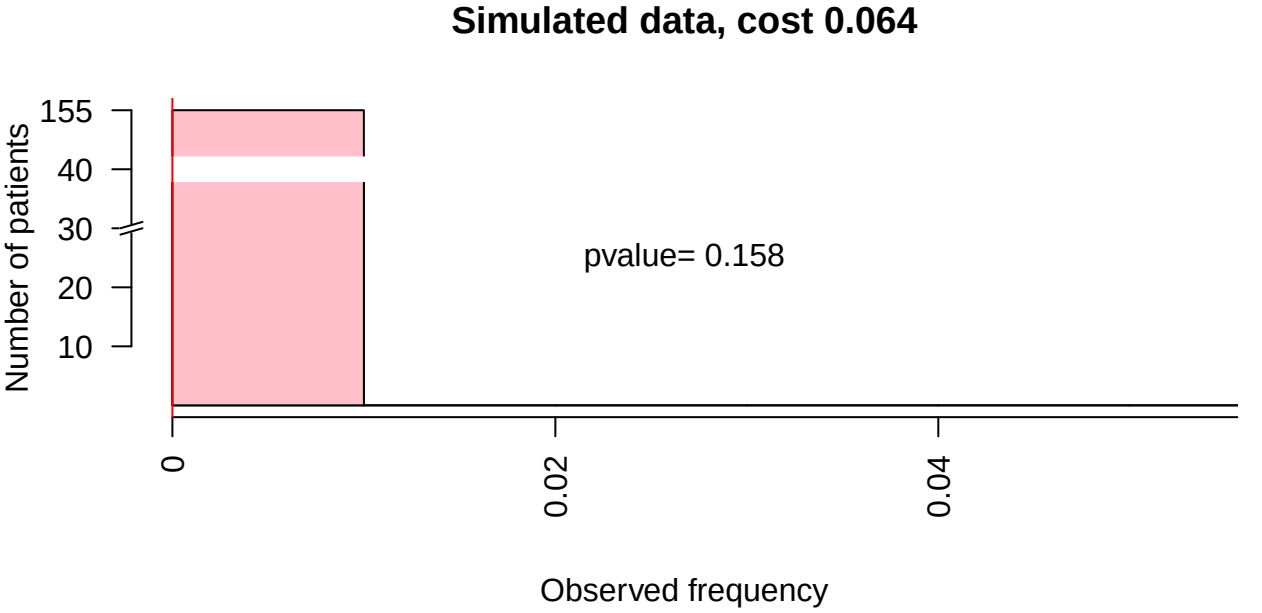

Single−SFS, site 459
Number of patients
131
40
30
20
10
0
0.02
0.04
0.06
0.08
Observed frequency

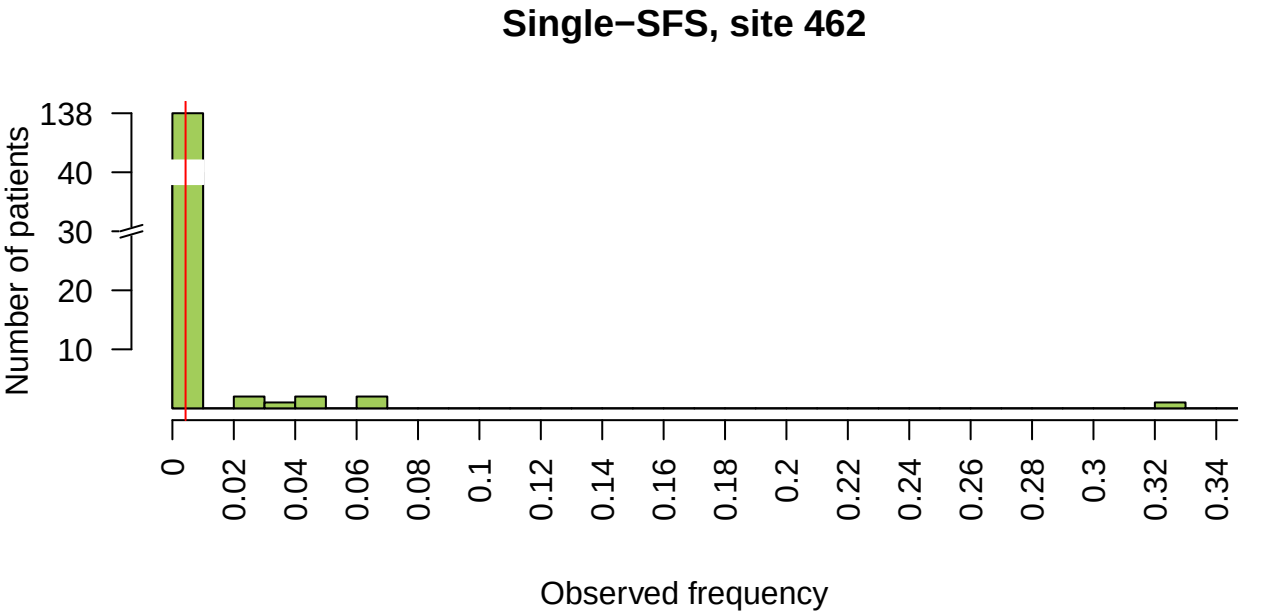

Simulated data, cost 0.007
Number of patients
135
40
30
20
10
pvalue= 0.15
0
0.02
0.04
0.06
0.08
Observed frequency

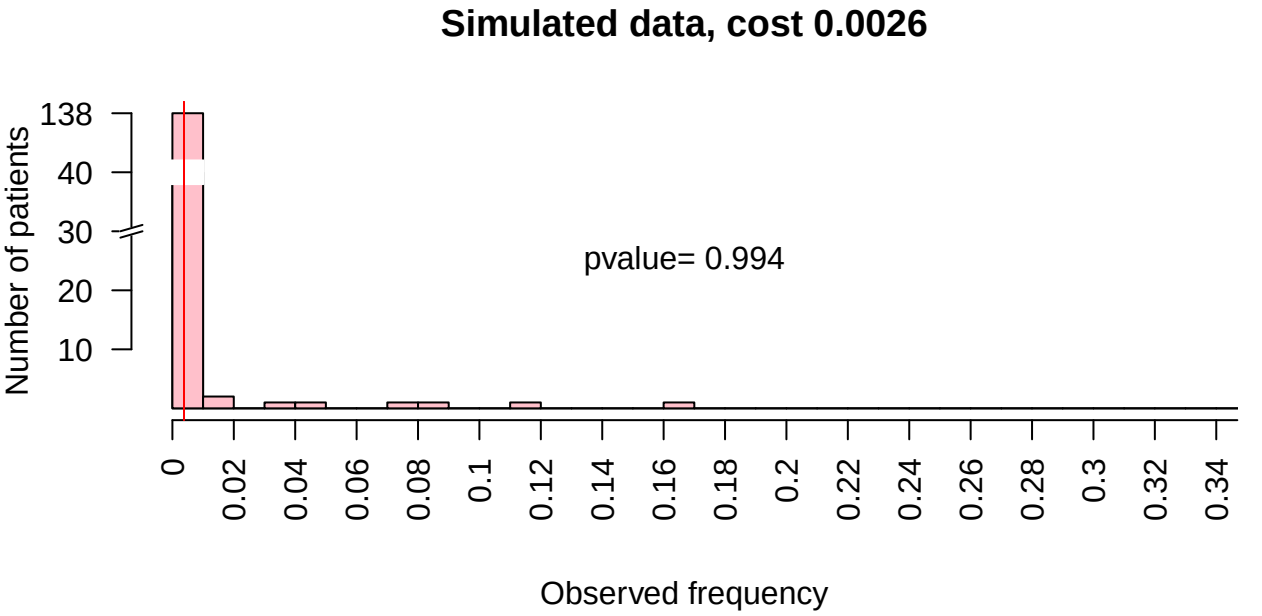

Single−SFS, site 460
Number of patients
154
40
30
20
10
0
0.02
Observed frequency

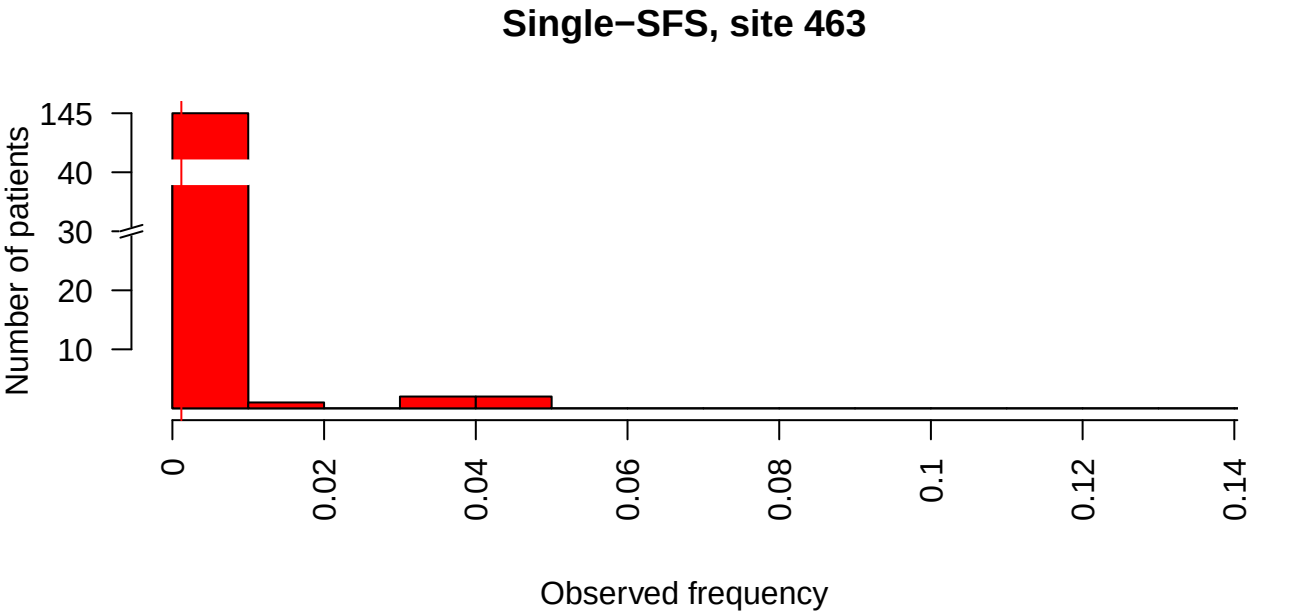

Simulated data, cost 0.1905
Number of patients
155
40
30
20
10
pvalue= 0.32
0
0.02
Observed frequency

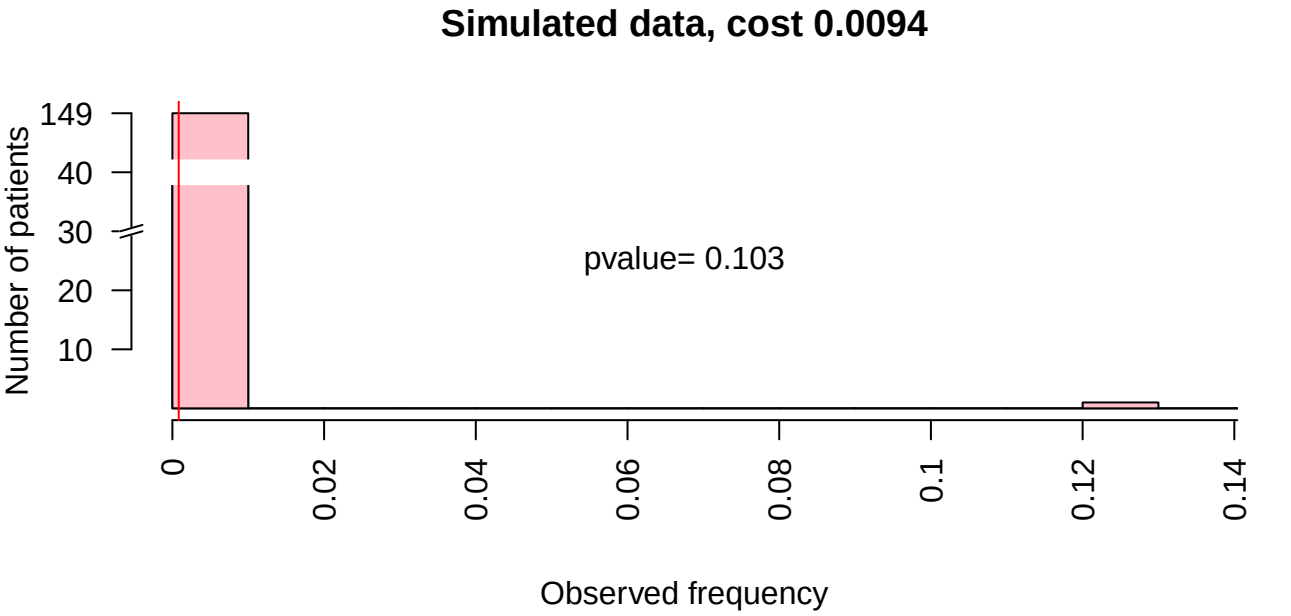

Single−SFS, site 461
Number of patients
153
40
30
20
10
0
0.02
0.04
Observed frequency

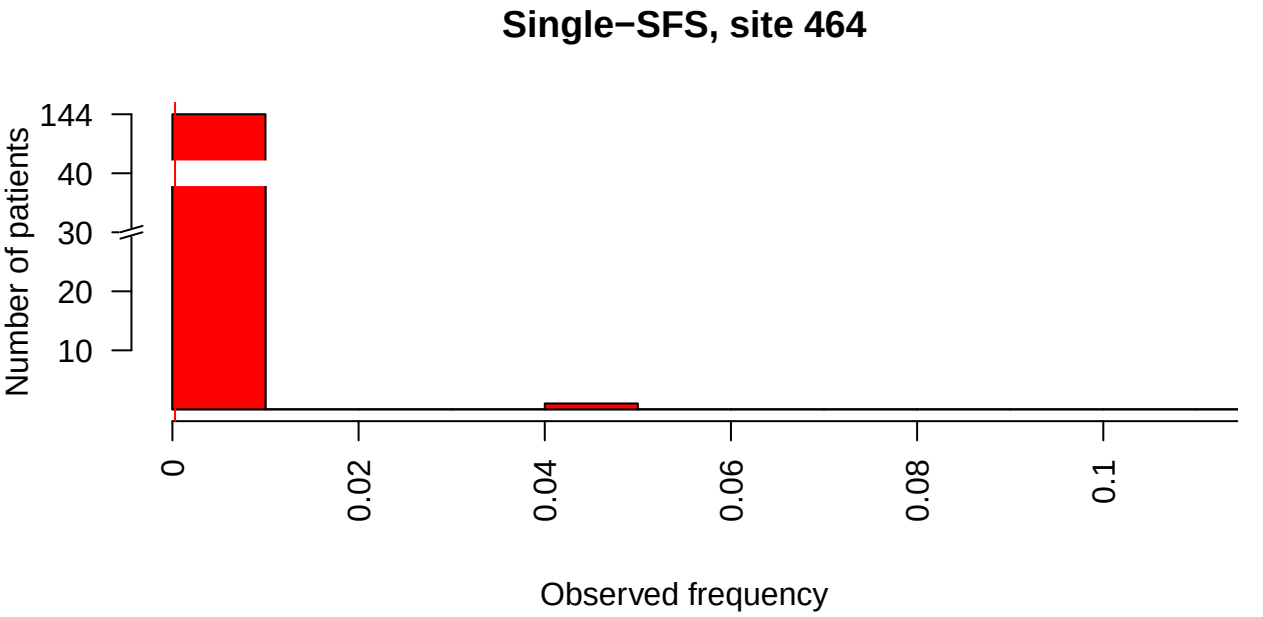

Simulated data, cost 0.064
Number of patients
155
40
30
20
10
pvalue= 0.158
0
0.02
0.04
Observed frequency

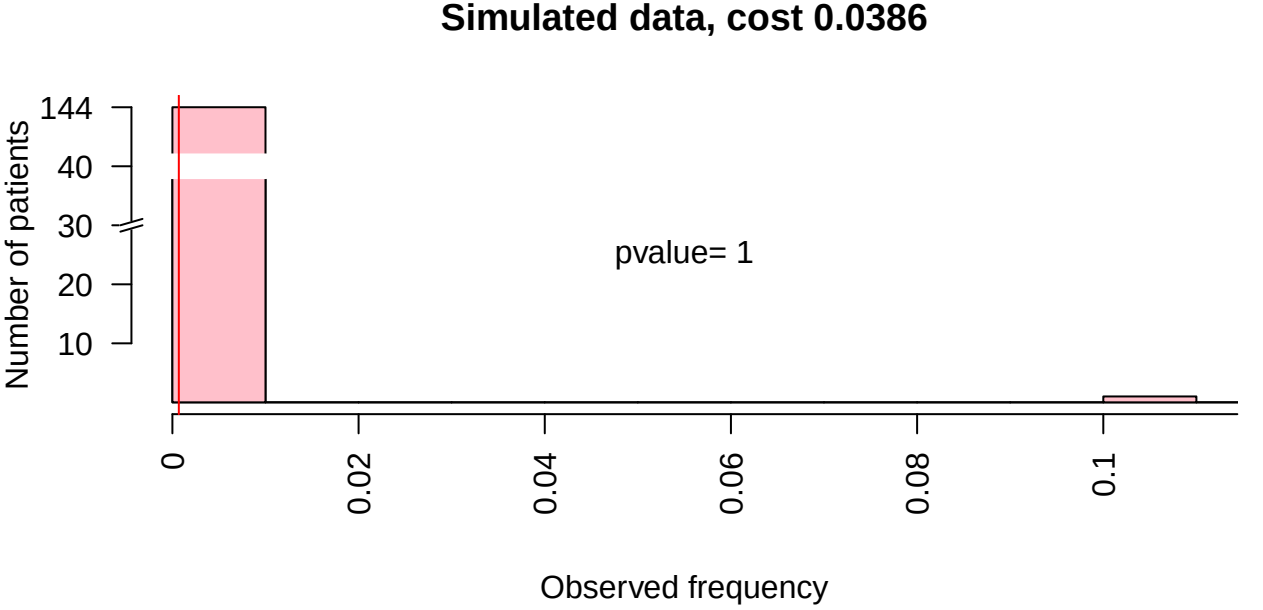

Single−SFS, site 462
Number of patients
138
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
0.24
0.26
0.28
0.3
0.32
0.34
Observed frequency

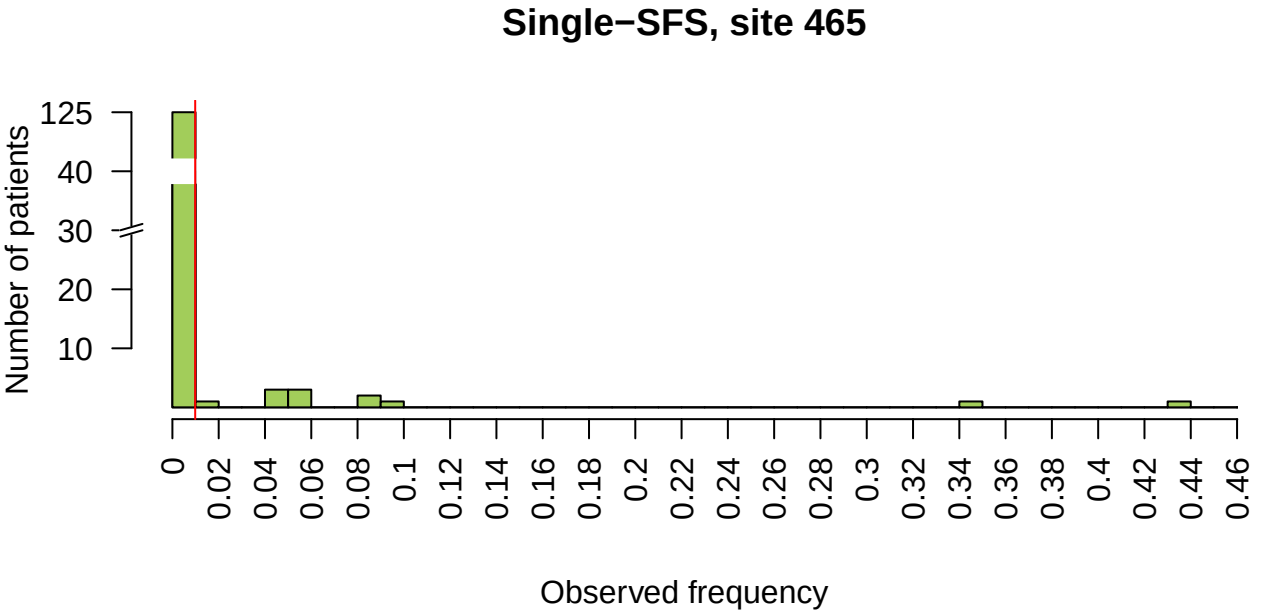

Simulated data, cost 0.0026
pvalue= 0.994
Number of patients
138
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
0.24
0.26
0.28
0.3
0.32
0.34
Observed frequency

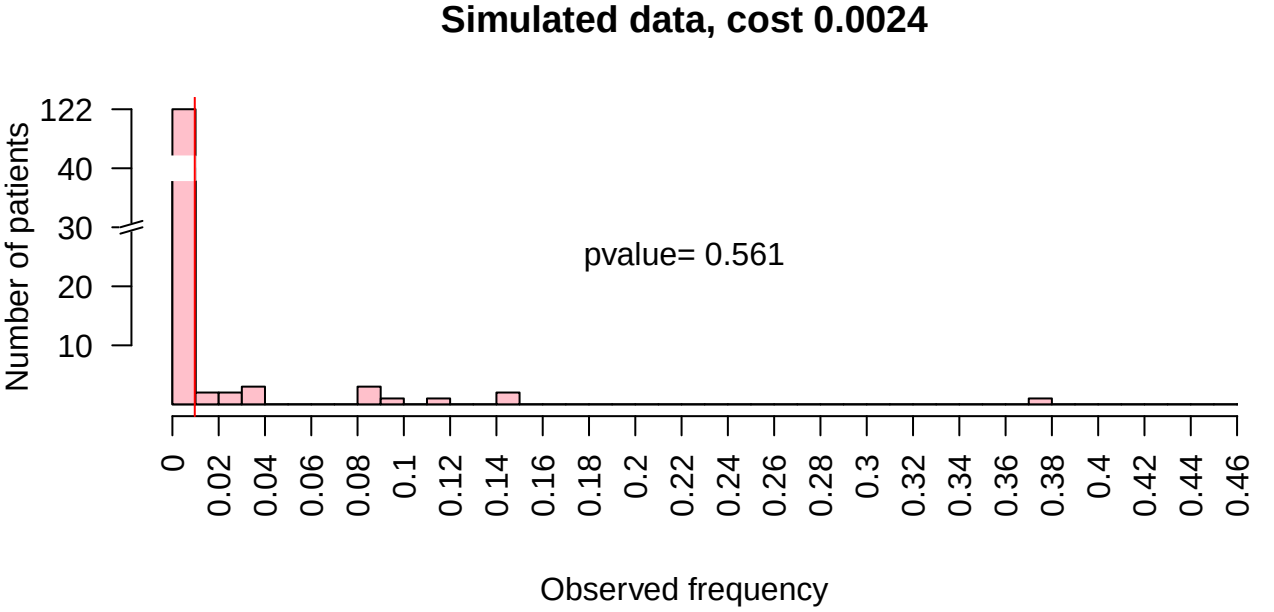

Single−SFS, site 463
Number of patients
145
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
Observed frequency

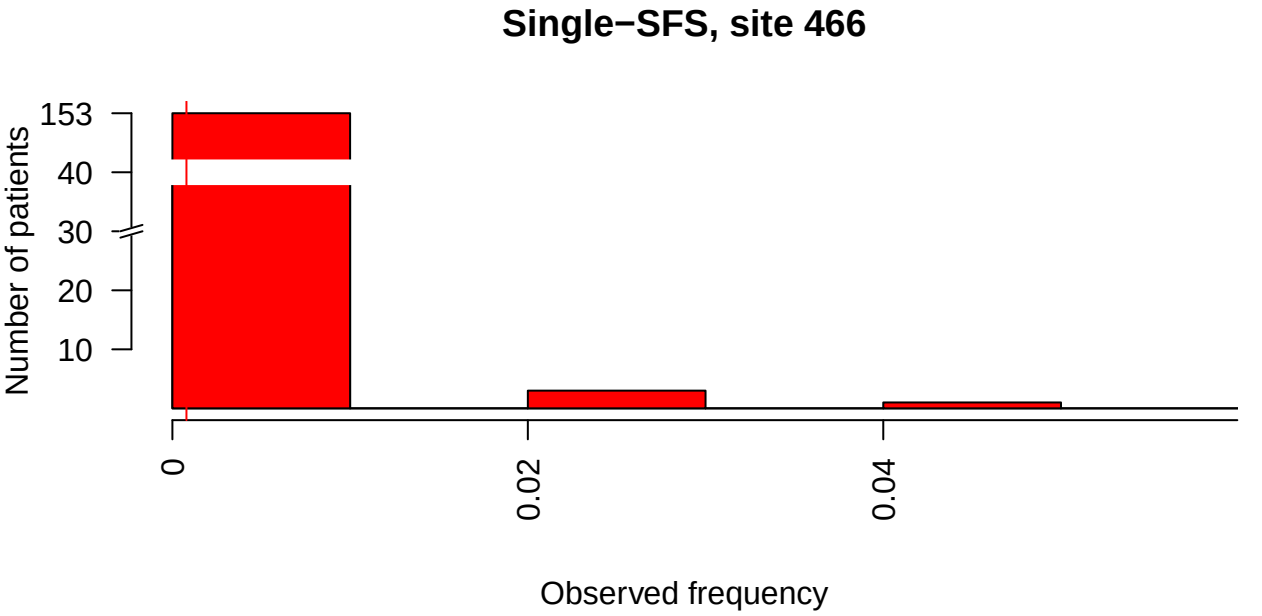

Simulated data, cost 0.0094
Number of patients
149
40
30
20
10
pvalue= 0.103
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
Observed frequency

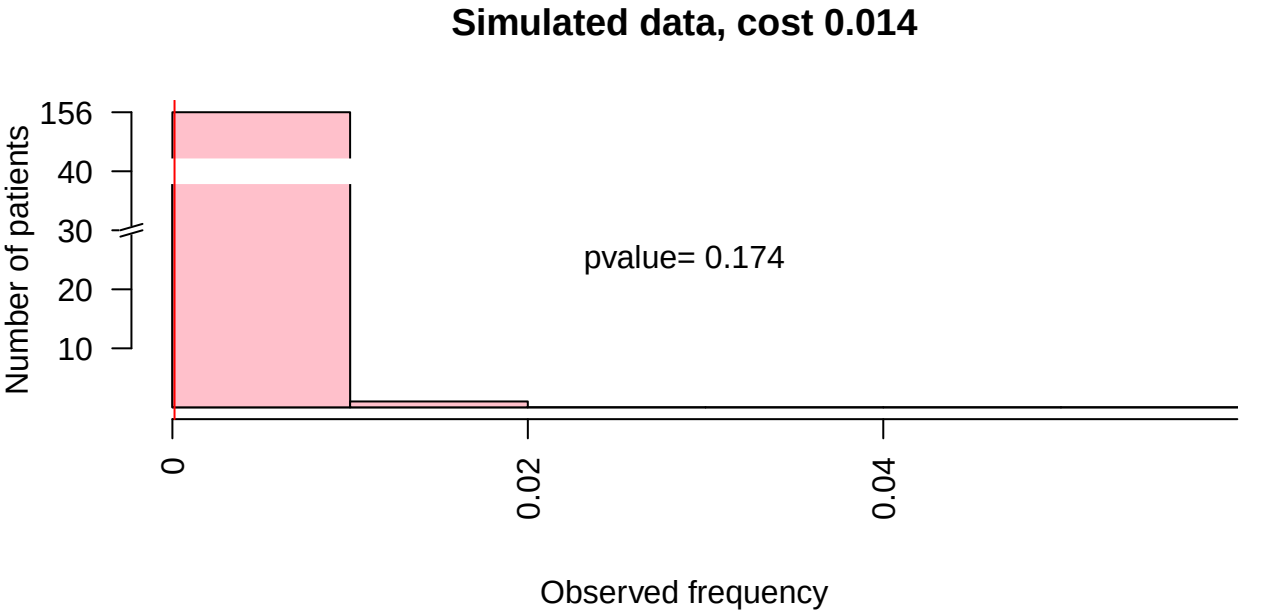

Single−SFS, site 464
Number of patients
144
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
Observed frequency

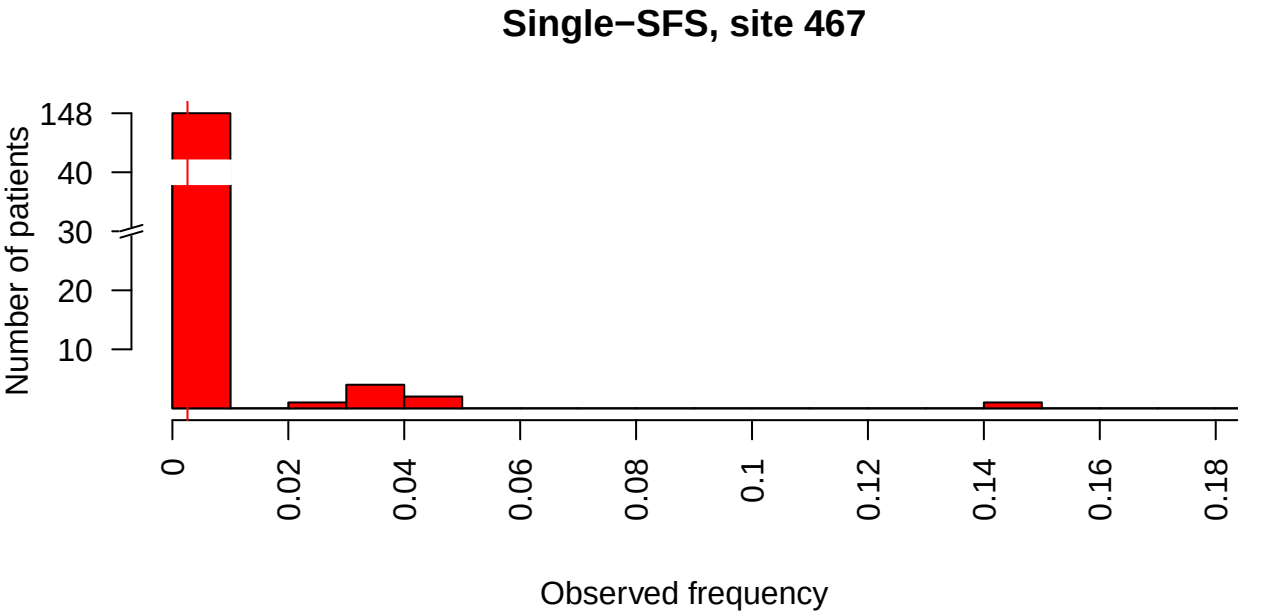

Simulated data, cost 0.0386
Number of patients
144
40
30
20
10
pvalue= 1
0
0.02
0.04
0.06
0.08
0.1
Observed frequency

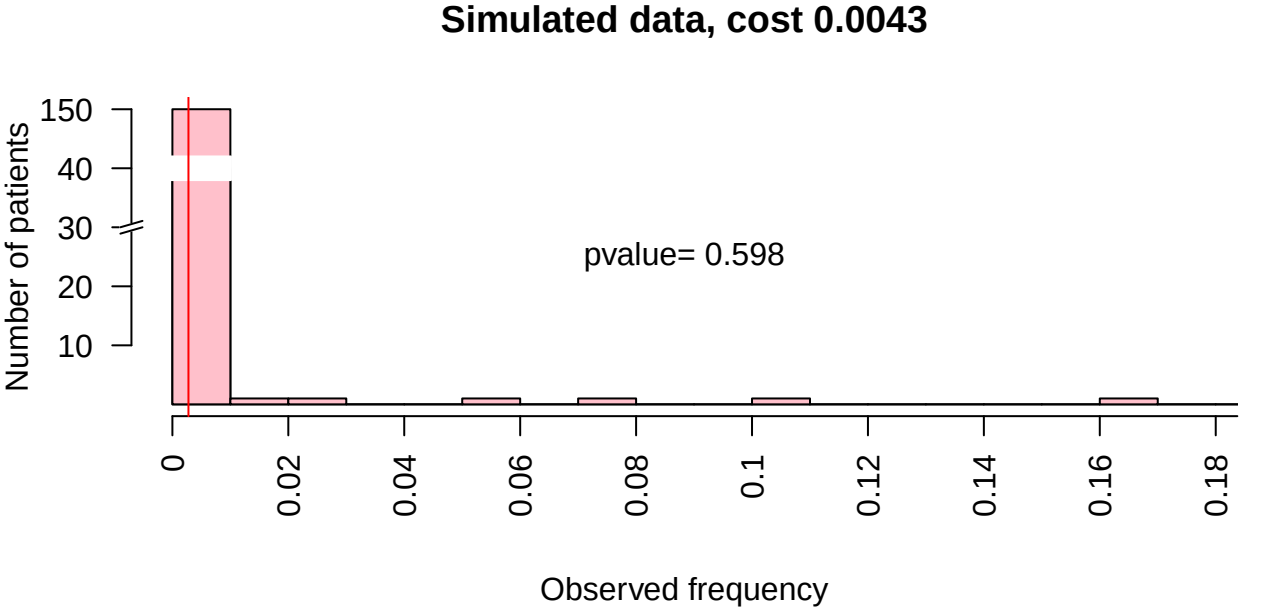

Single−SFS, site 465
Number of patients
125
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
0.24
0.26
0.28
0.3
0.32
0.34
0.36
0.38
0.4
0.42
0.44
0.46
Observed frequency

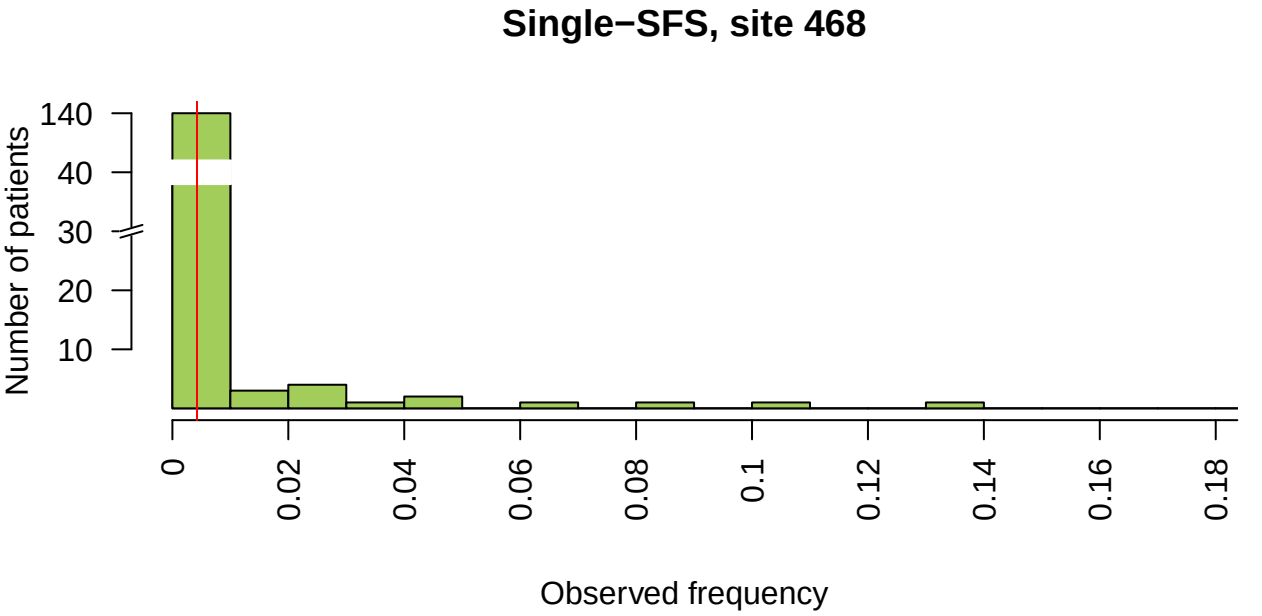

Simulated data, cost 0.0024
Number of patients
122
40
30
20
10
pvalue= 0.561
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
0.24
0.26
0.28
0.3
0.32
0.34
0.36
0.38
0.4
0.42
0.44
0.46
Observed frequency

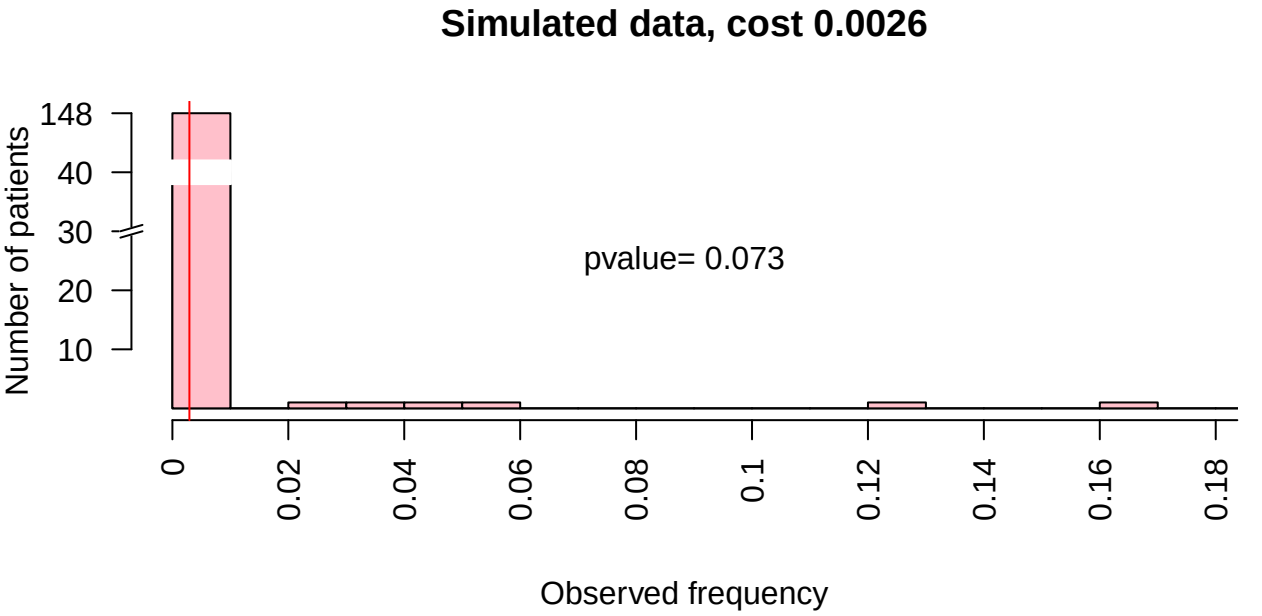

Single−SFS, site 466
Number of patients
153
40
30
20
10
0
0.02
0.04
Observed frequency

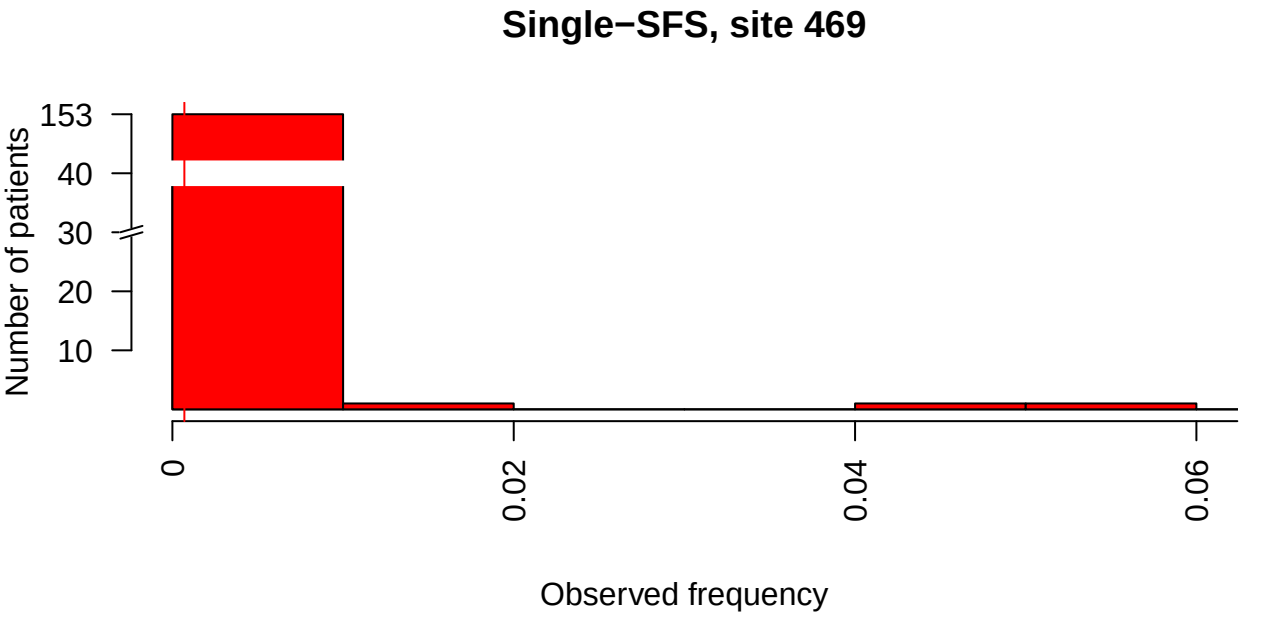

Simulated data, cost 0.014
Number of patients
156
40
30
20
10
pvalue= 0.174
0
0.02
0.04
Observed frequency

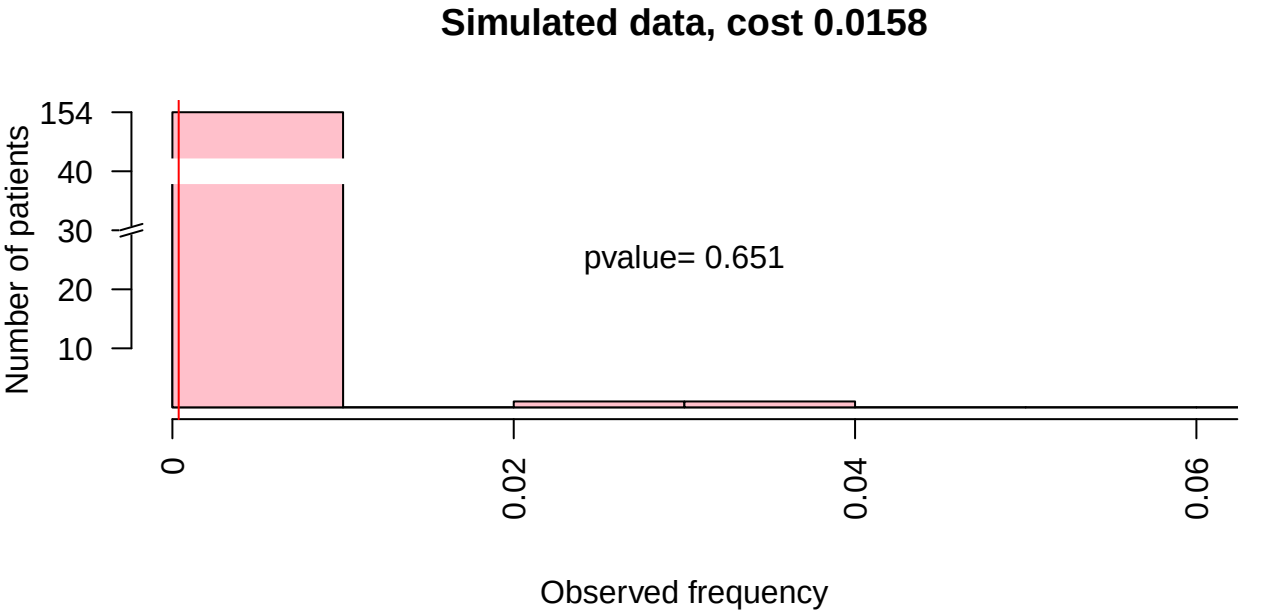

Single−SFS, site 467
Number of patients
148
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
Observed frequency

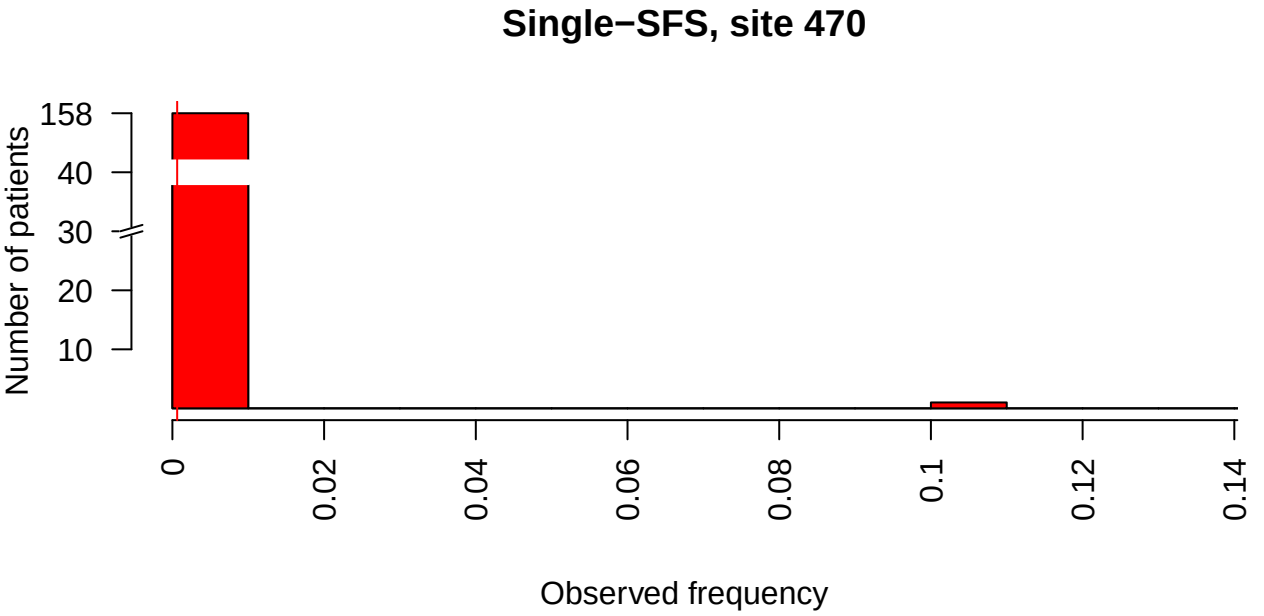

Simulated data, cost 0.0043
Number of patients
150
40
30
20
10
pvalue= 0.598
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
Observed frequency

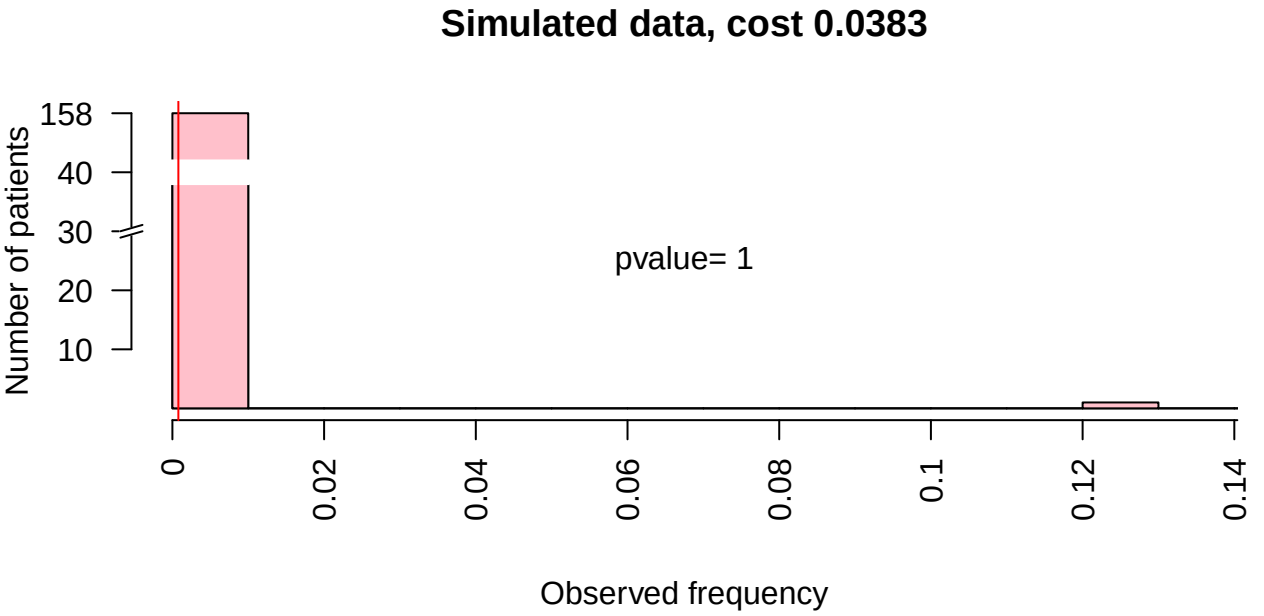

Single−SFS, site 468
Number of patients
140
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
Observed frequency

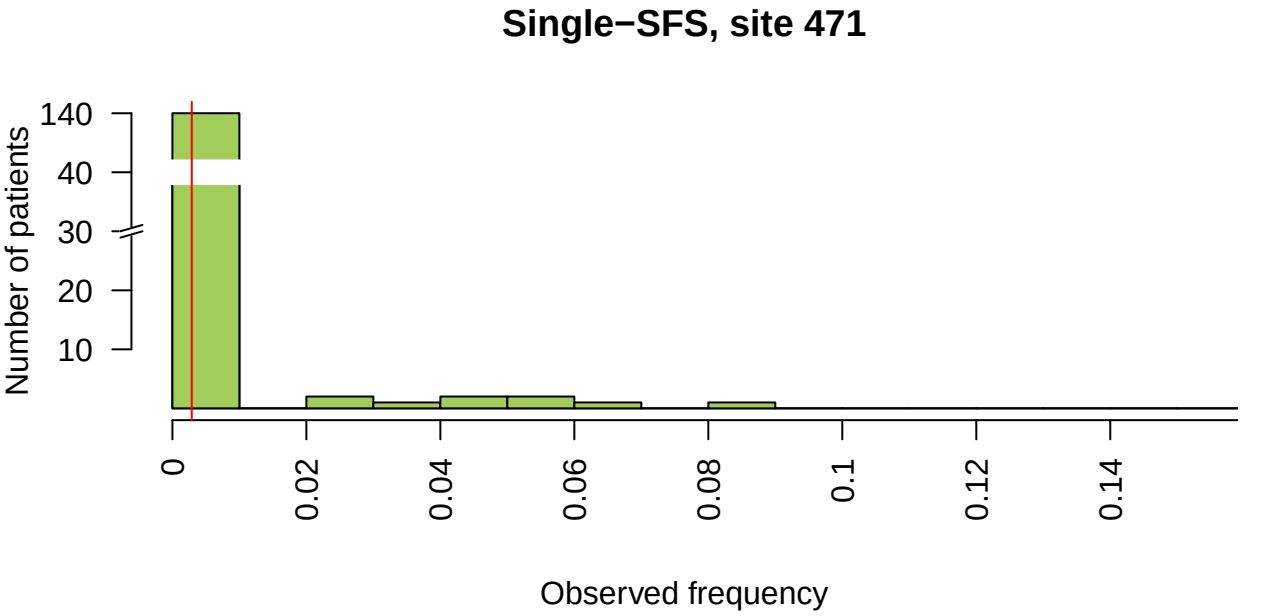

Simulated data, cost 0.0026
Number of patients
148
40
30
20
10
pvalue= 0.073
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
Observed frequency

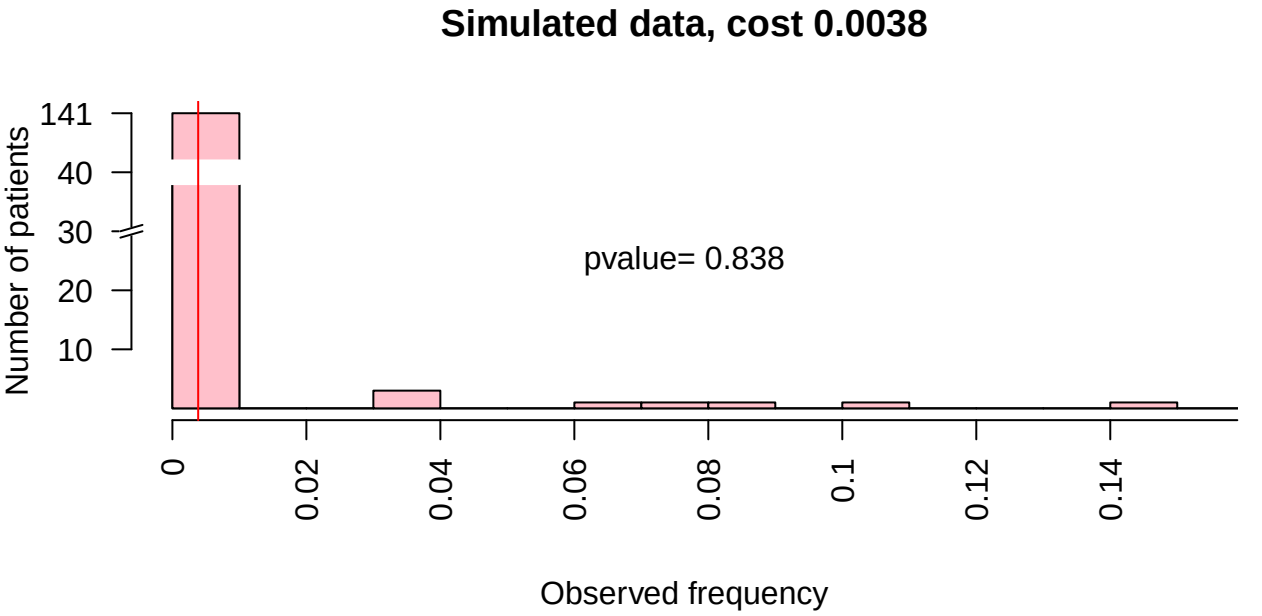

Single−SFS, site 469
Number of patients
153
40
30
20
10
0
0.02
0.04
0.06
Observed frequency

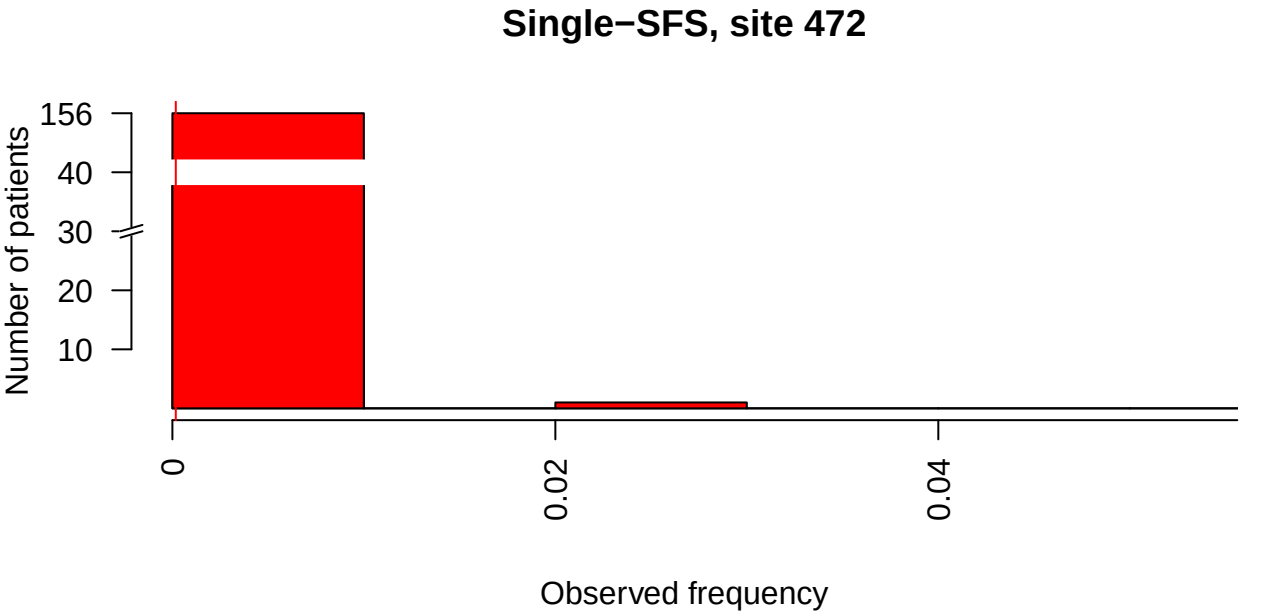

Simulated data, cost 0.0158
Number of patients
154
40
30
20
10
pvalue= 0.651
0
0.02
0.04
0.06
Observed frequency

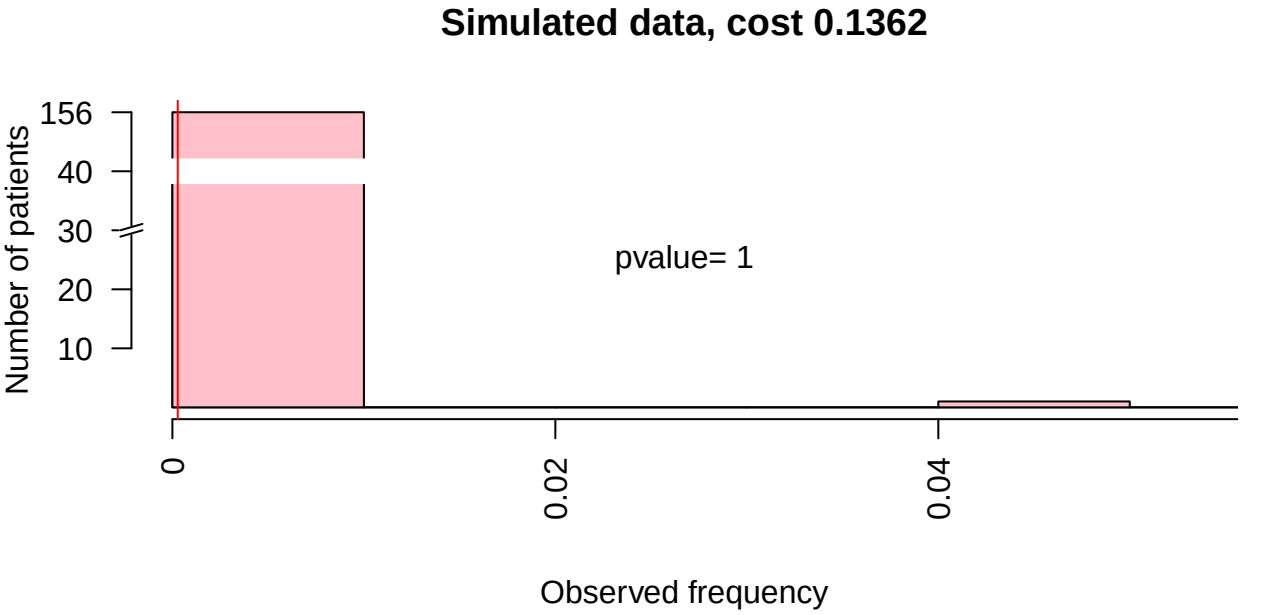

Single−SFS, site 470
Number of patients
158
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
Observed frequency

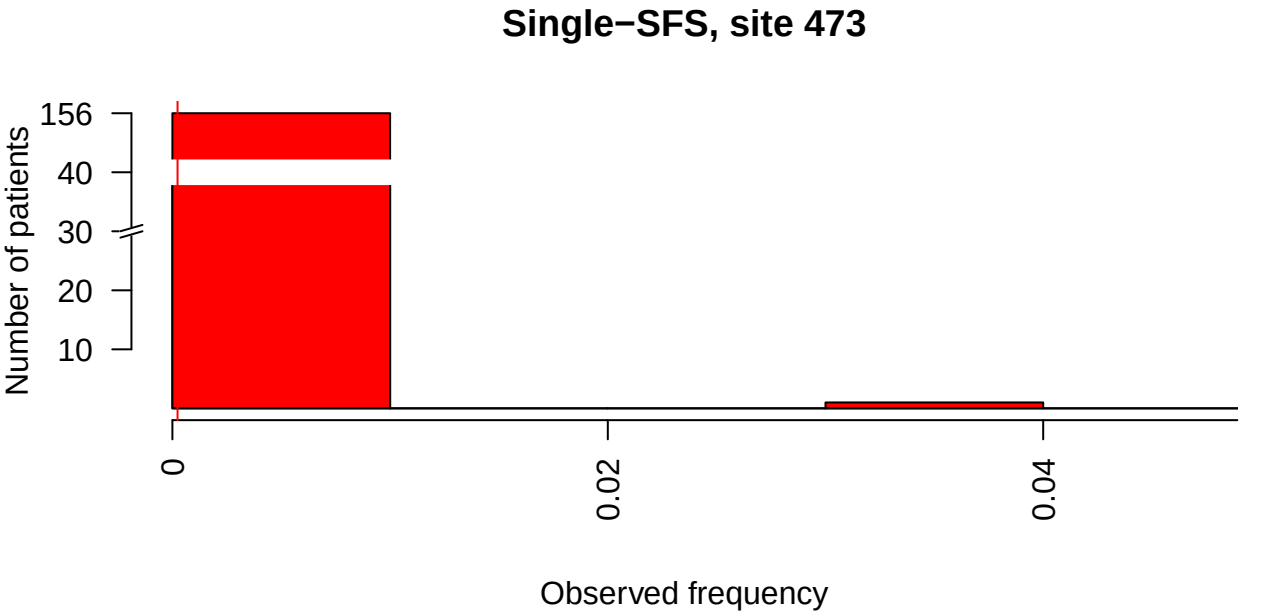

Simulated data, cost 0.0383
Number of patients
158
40
30
20
10
pvalue= 1
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
Observed frequency

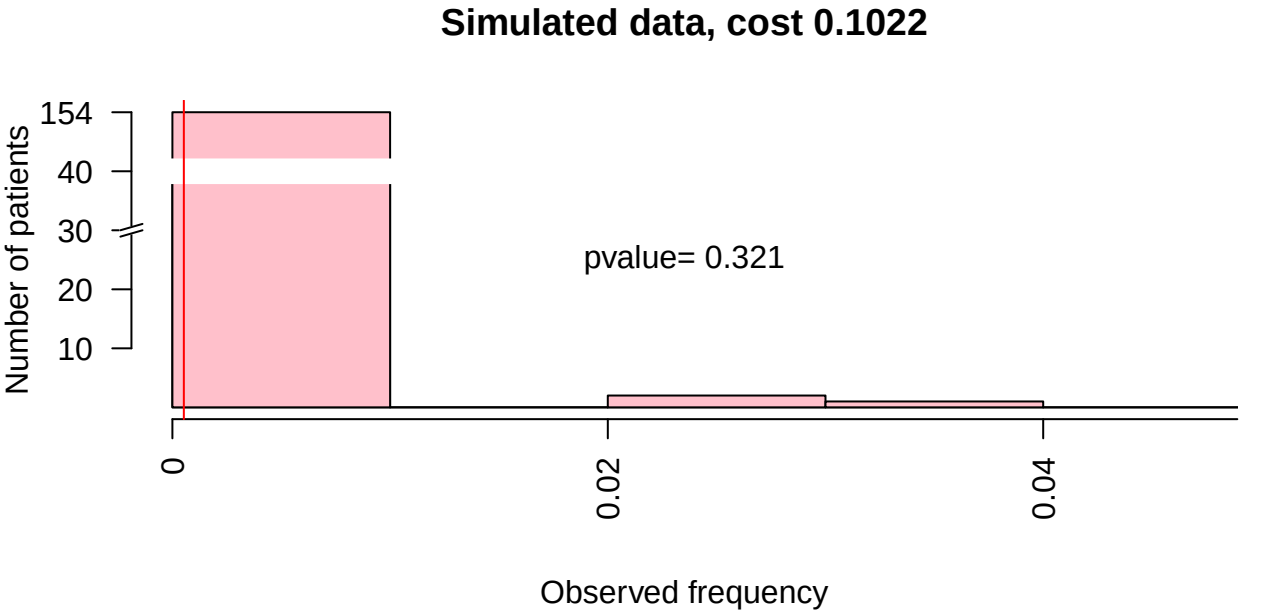

Single−SFS, site 471
Number of patients
140
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
Observed frequency

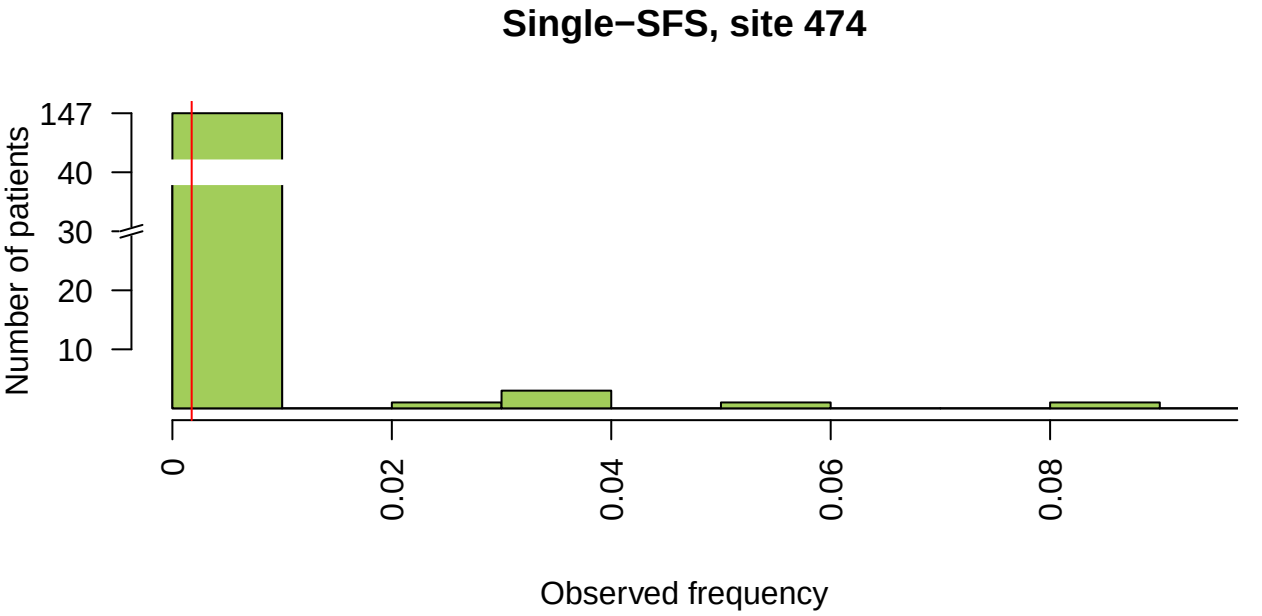

Simulated data, cost 0.0038
Number of patients
141
40
30
20
10
pvalue= 0.838
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
Observed frequency

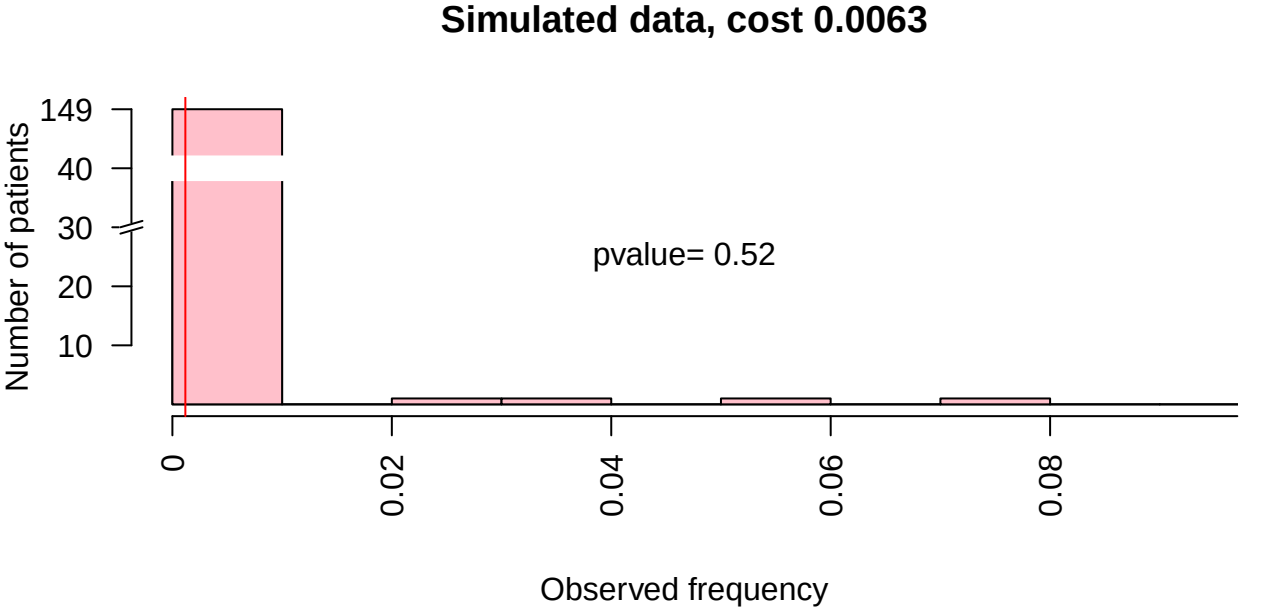

Single−SFS, site 472
Number of patients
156
40
30
20
10
0
0.02
0.04
Observed frequency

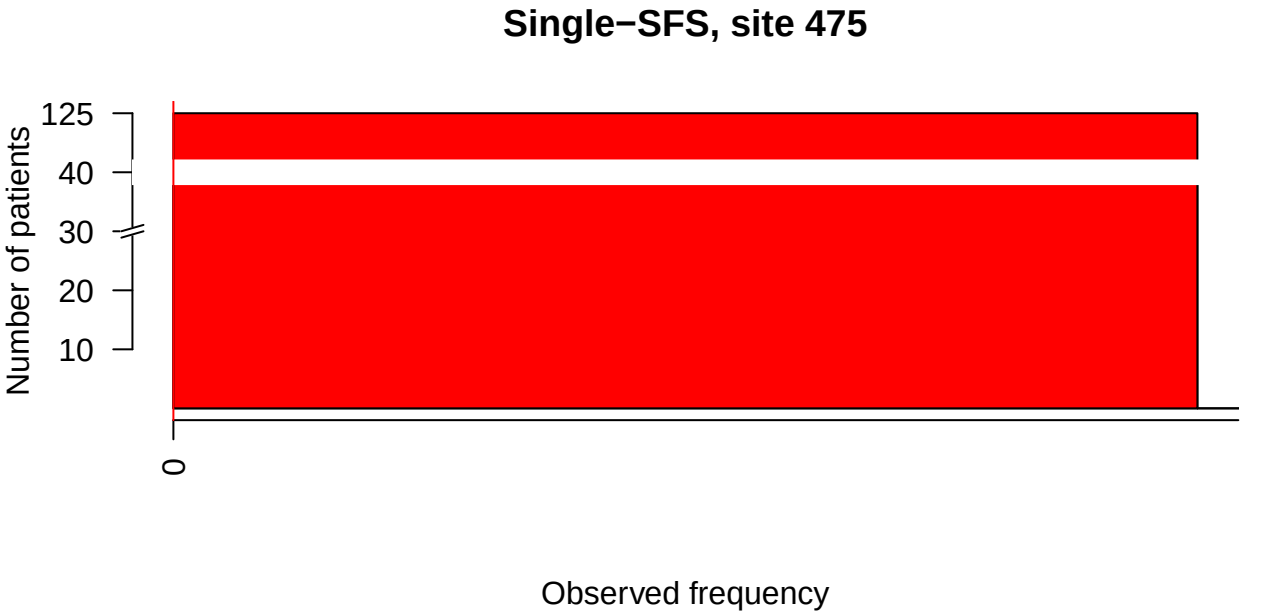

Simulated data, cost 0.1362
Number of patients
156
40
30
20
10
pvalue= 1
0
0.02
0.04
Observed frequency

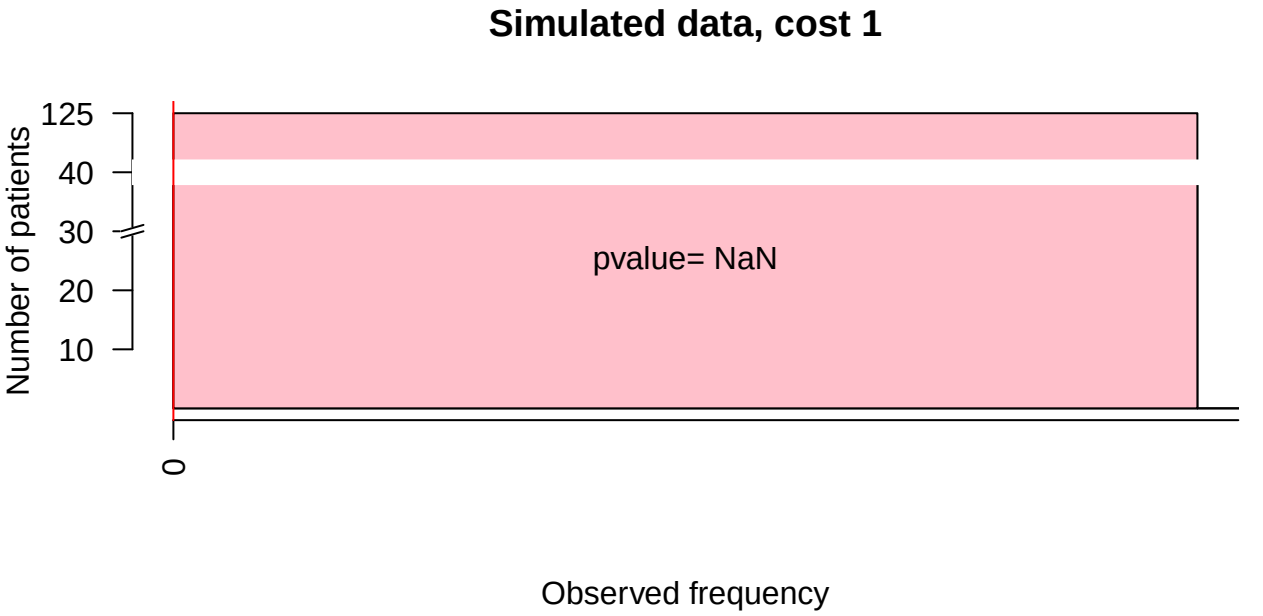

Single−SFS, site 473
Number of patients
156
40
30
20
10
0
0.02
0.04
Observed frequency

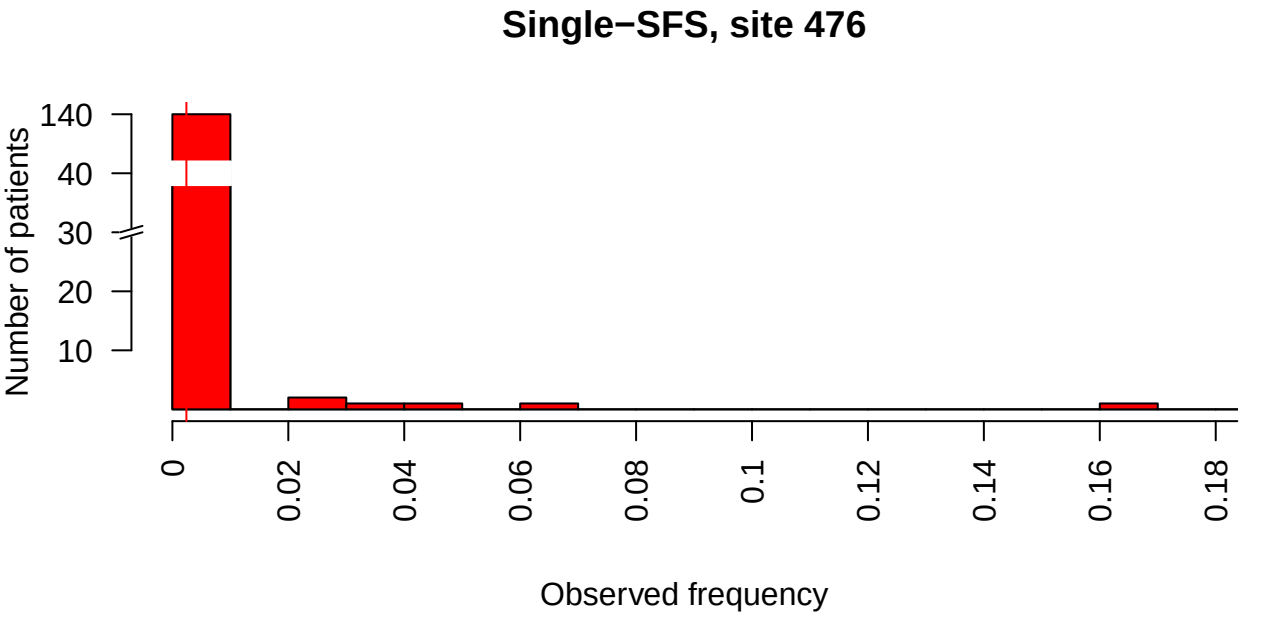

Simulated data, cost 0.1022
Number of patients
154
40
30
20
10
pvalue= 0.321
0
0.02
0.04
Observed frequency

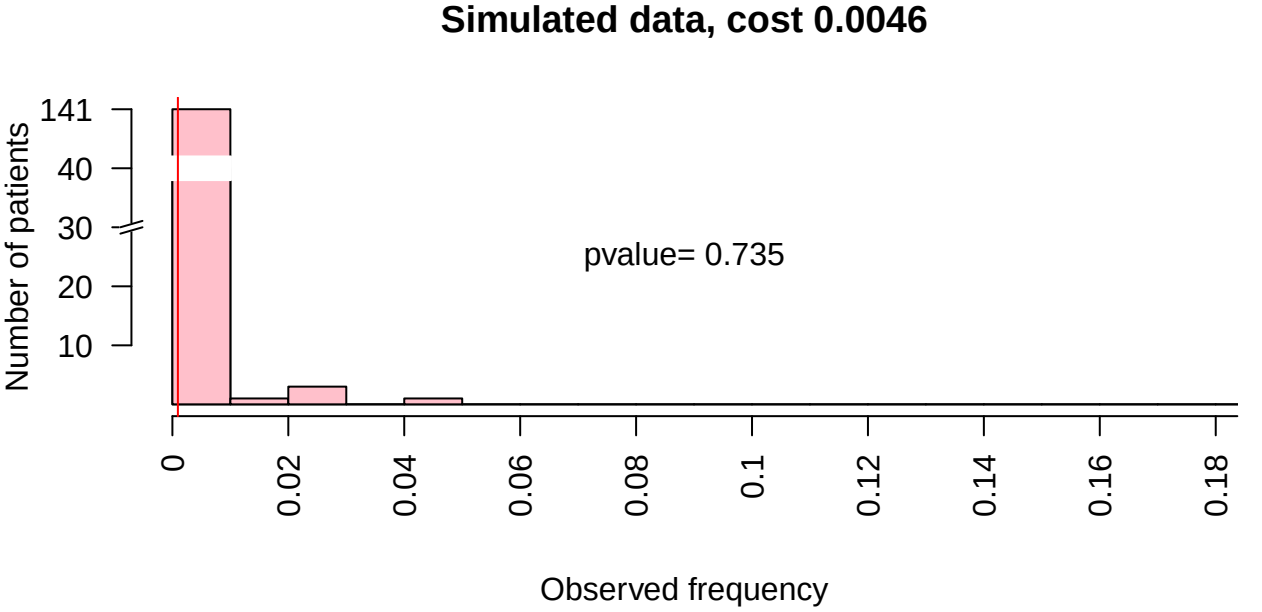

Single−SFS, site 474
Number of patients
147
40
30
20
10
0
0.02
0.04
0.06
0.08
Observed frequency

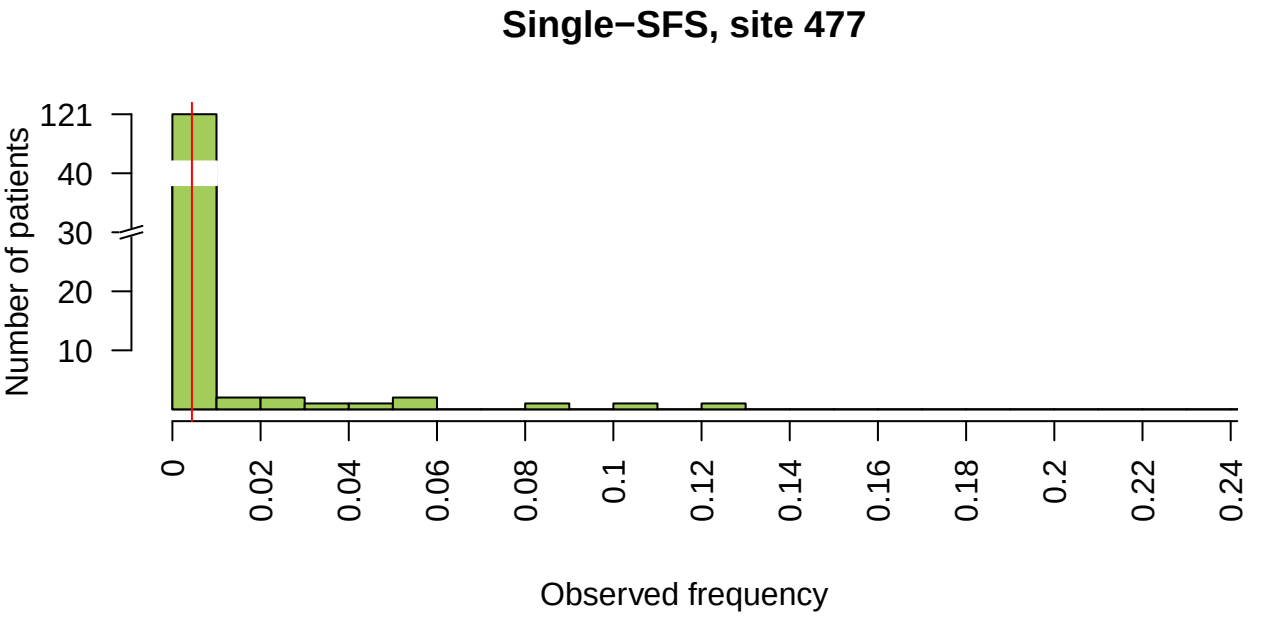

Simulated data, cost 0.0063
Number of patients
149
40
30
20
10
pvalue= 0.52
0
0.02
0.04
0.06
0.08
Observed frequency

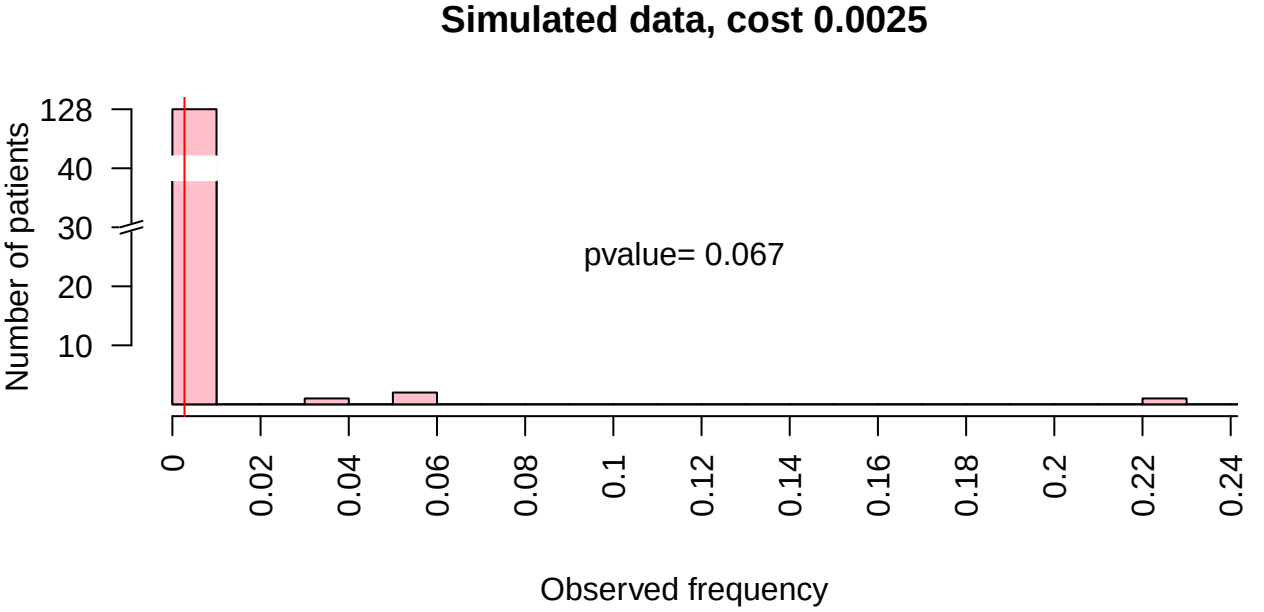

Single−SFS, site 475
Number of patients
125
40
30
20
10
0
Observed frequency

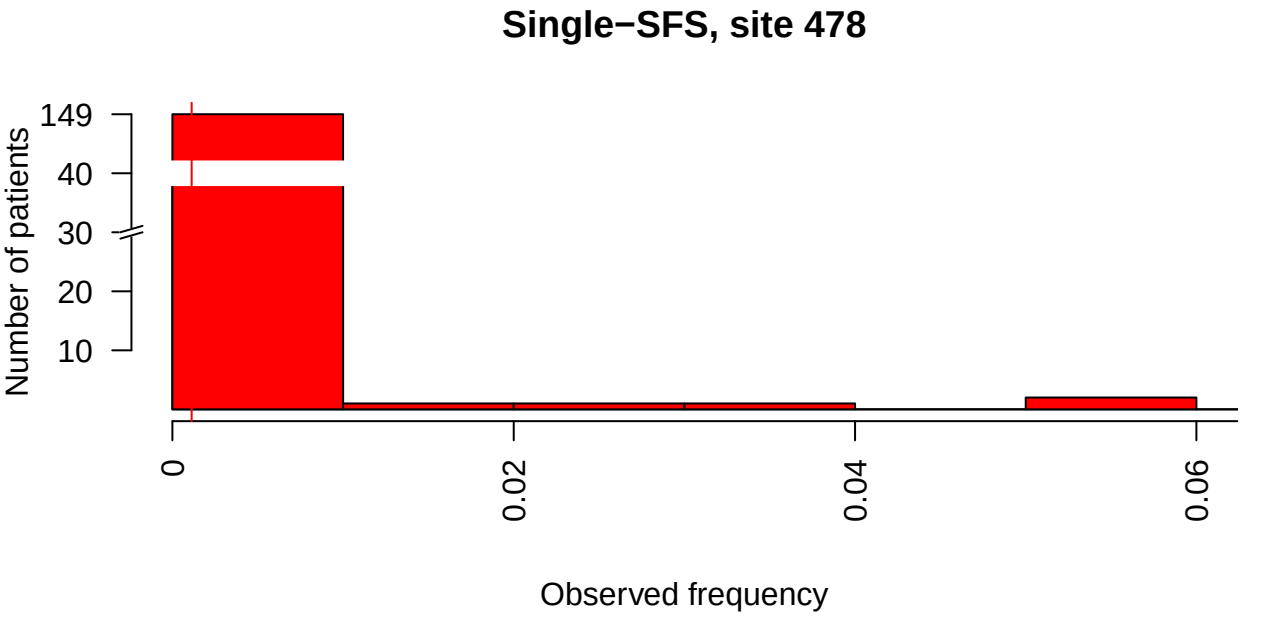

Simulated data, cost 1
Number of patients
125
40
30
20
10
0
pvalue= NaN
Observed frequency

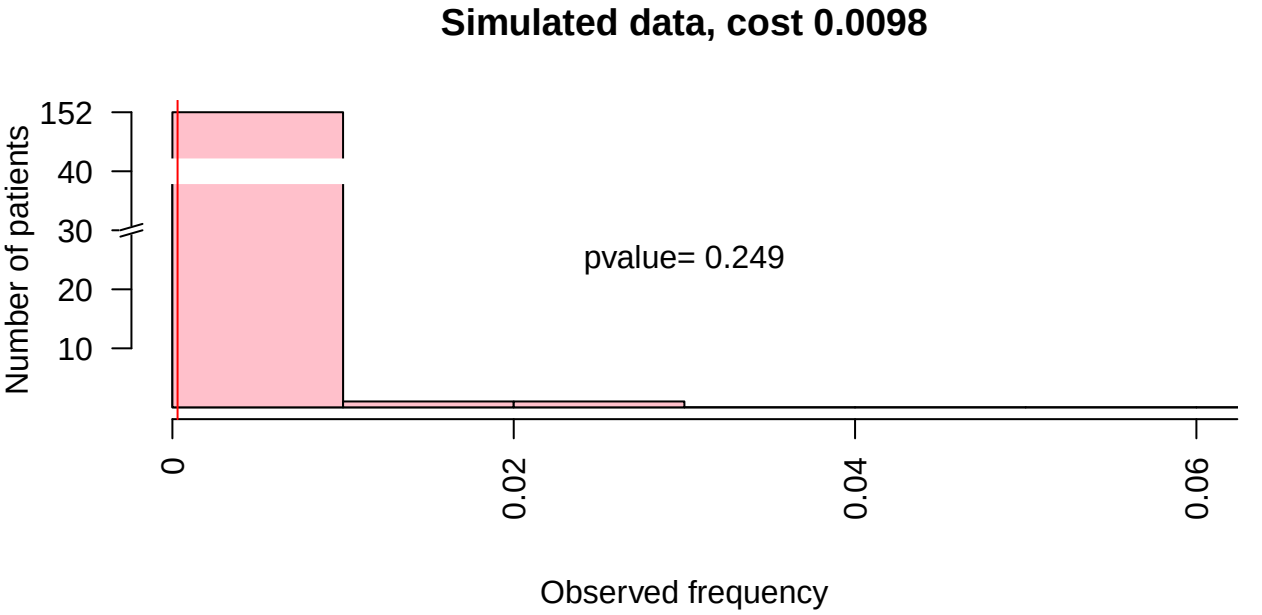

Single−SFS, site 476
Number of patients
140
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
Observed frequency

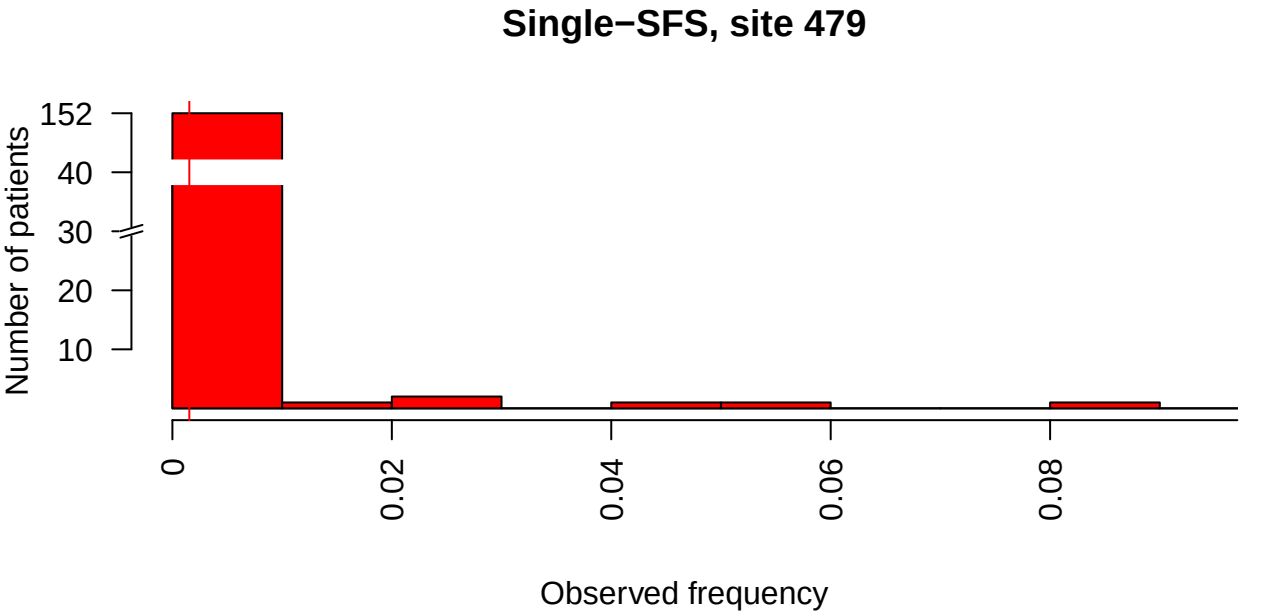

Simulated data, cost 0.0046
Number of patients
141
40
30
20
10
pvalue= 0.735
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
Observed frequency

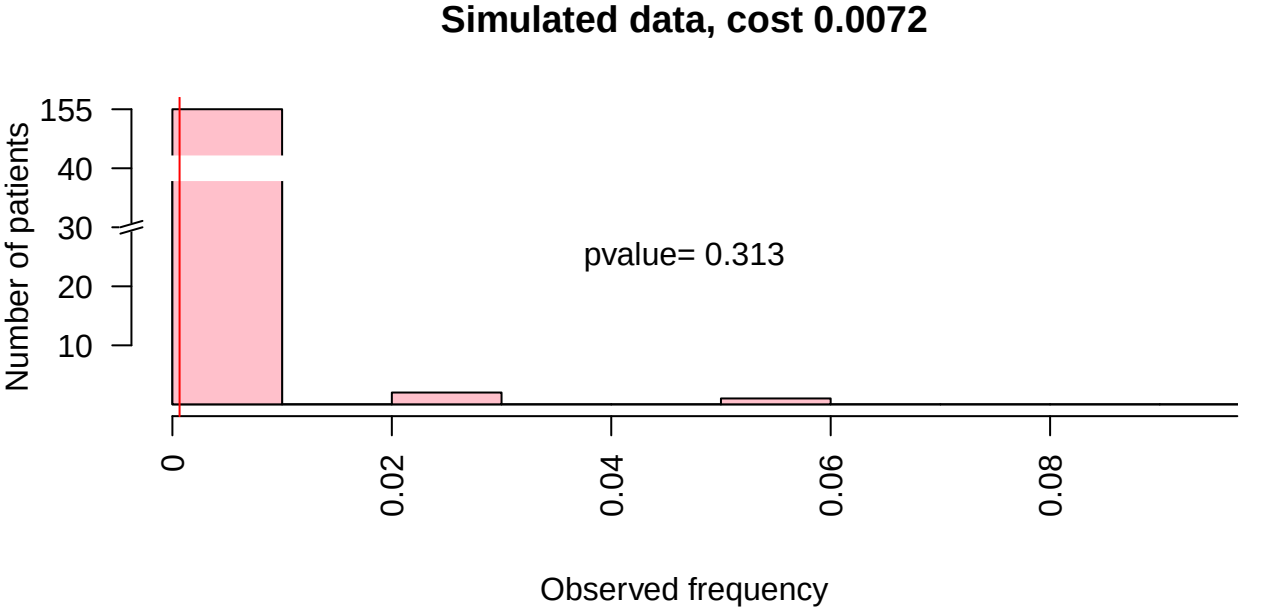

Single−SFS, site 477
Number of patients
121
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
0.24
Observed frequency

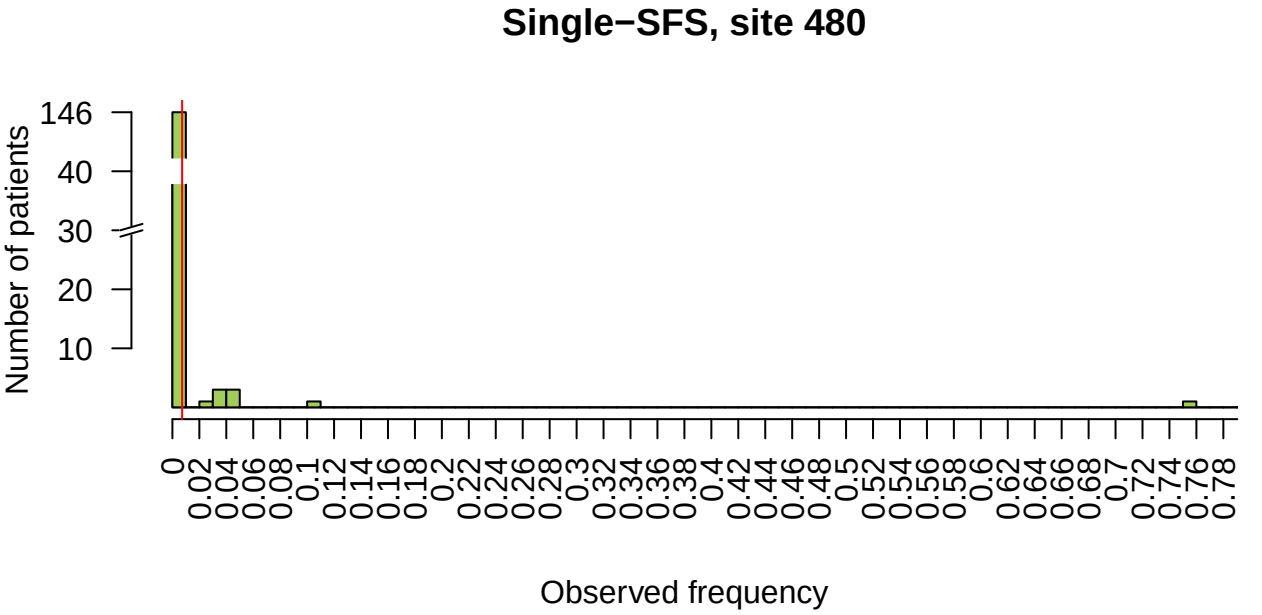

Simulated data, cost 0.0025
Number of patients
128
40
30
20
10
pvalue= 0.067
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
0.24
Observed frequency

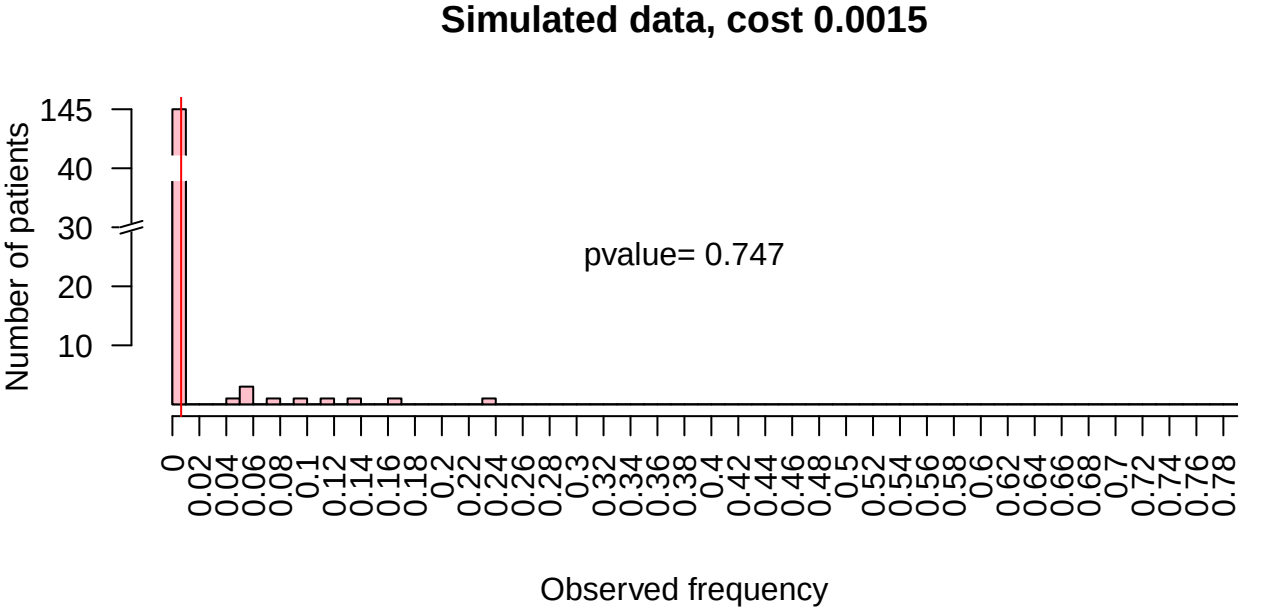

Single−SFS, site 478
Number of patients
149
40
30
20
10
0
0.02
0.04
0.06
Observed frequency

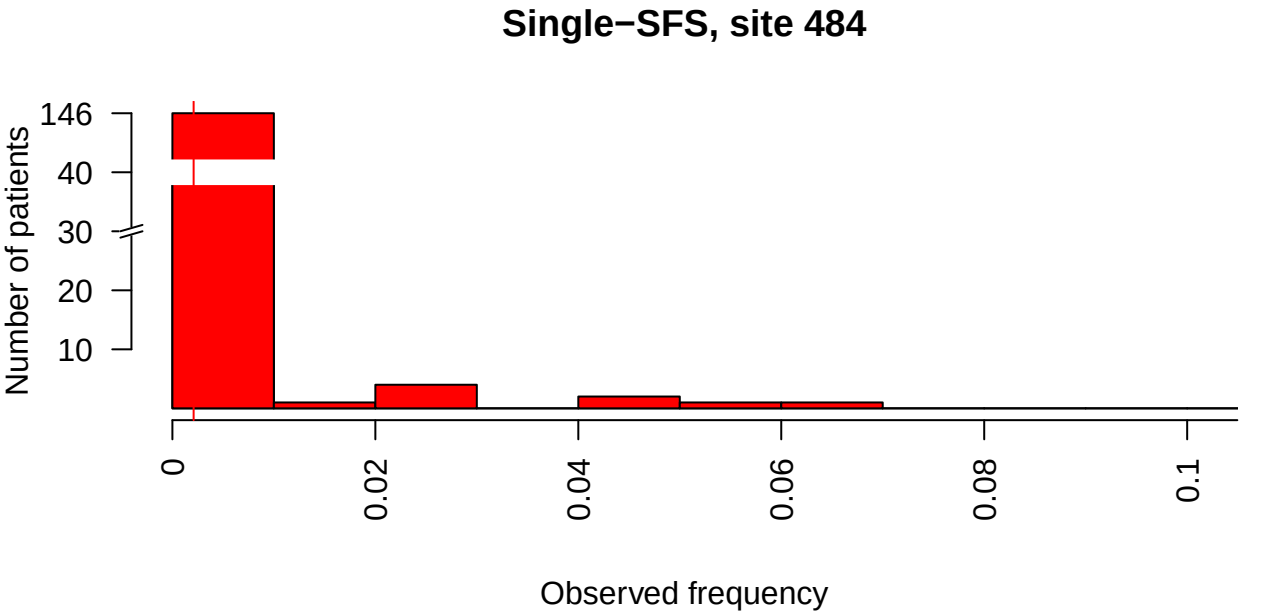

Simulated data, cost 0.0098
Number of patients
152
40
30
20
10
pvalue= 0.249
0
0.02
0.04
0.06
Observed frequency

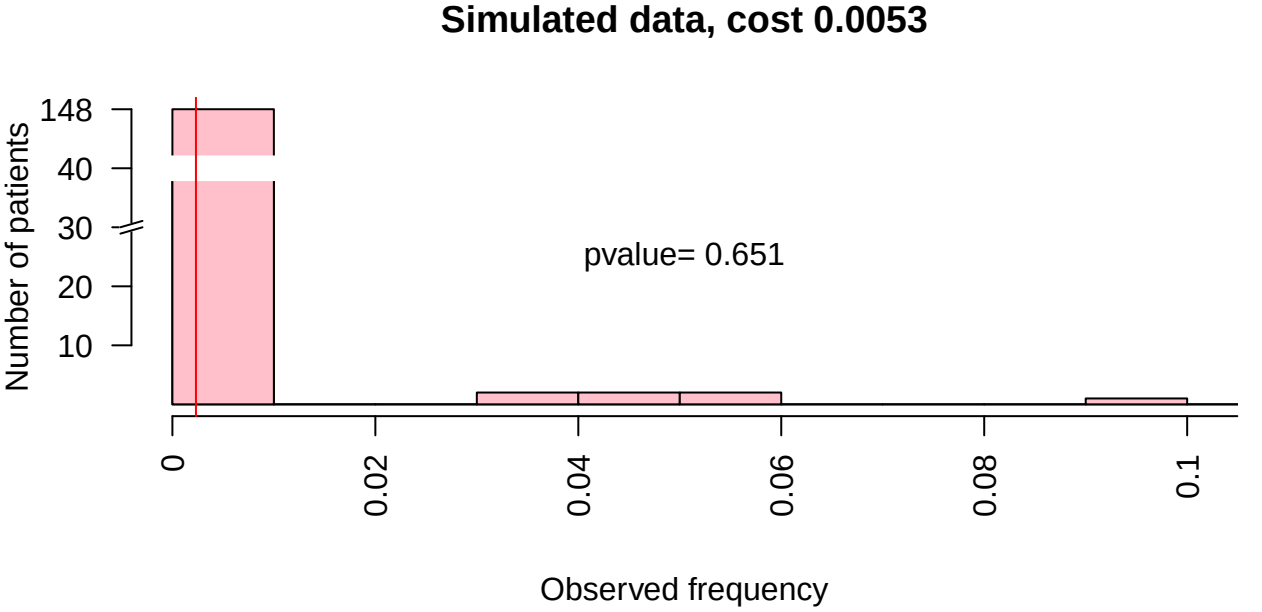

Single−SFS, site 479
Number of patients
152
40
30
20
10
0
0.02
0.04
0.06
0.08
Observed frequency

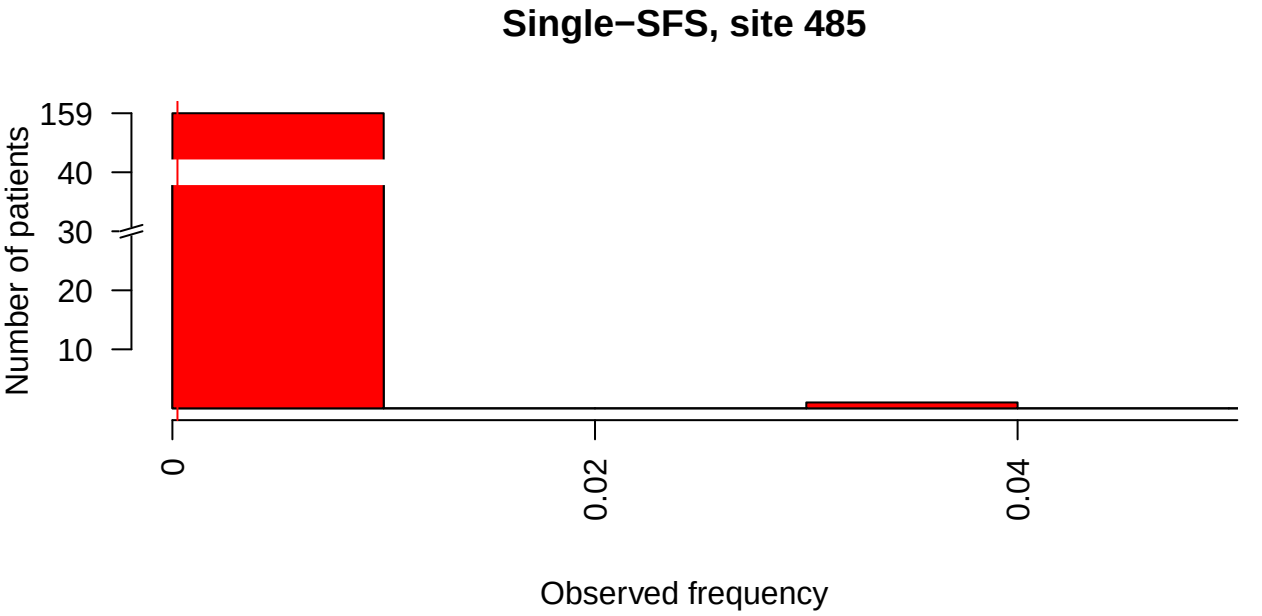

Simulated data, cost 0.0072
Number of patients
155
40
30
20
10
pvalue= 0.313
0
0.02
0.04
0.06
0.08
Observed frequency

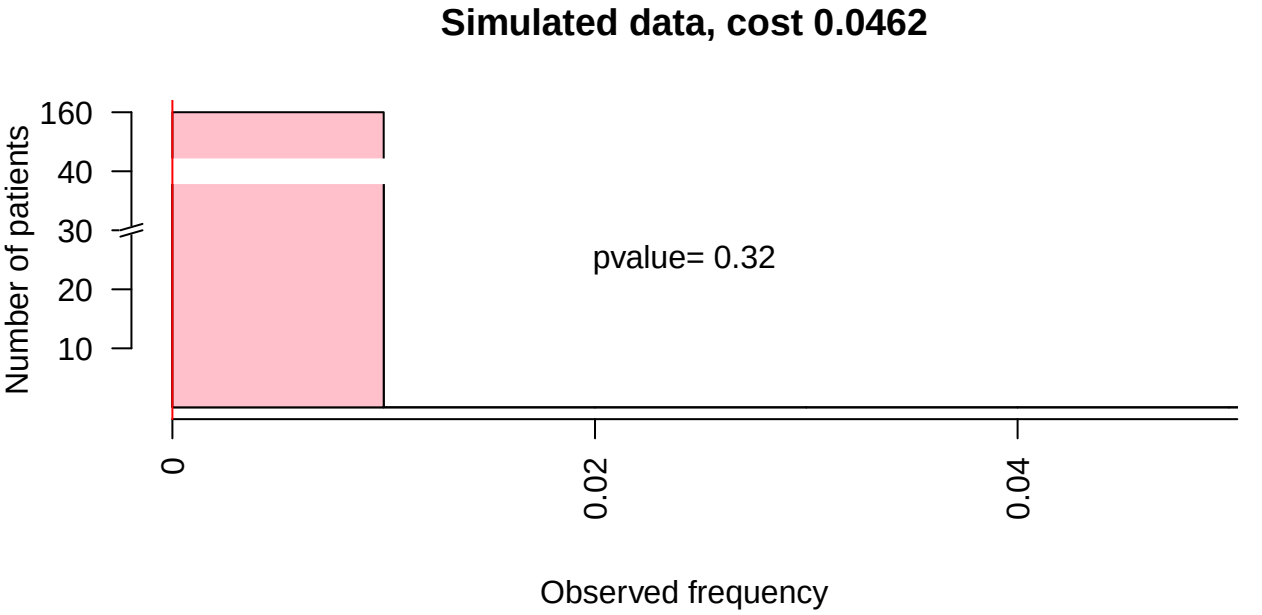

Single−SFS, site 480
Number of patients
146
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
0.24
0.26
0.28
0.3
0.32
0.34
0.36
0.38
0.4
0.42
0.44
0.46
0.48
0.5
0.52
0.54
0.56
0.58
0.6
0.62
0.64
0.66
0.68
0.7
0.72
0.74
0.76
0.78
Observed frequency

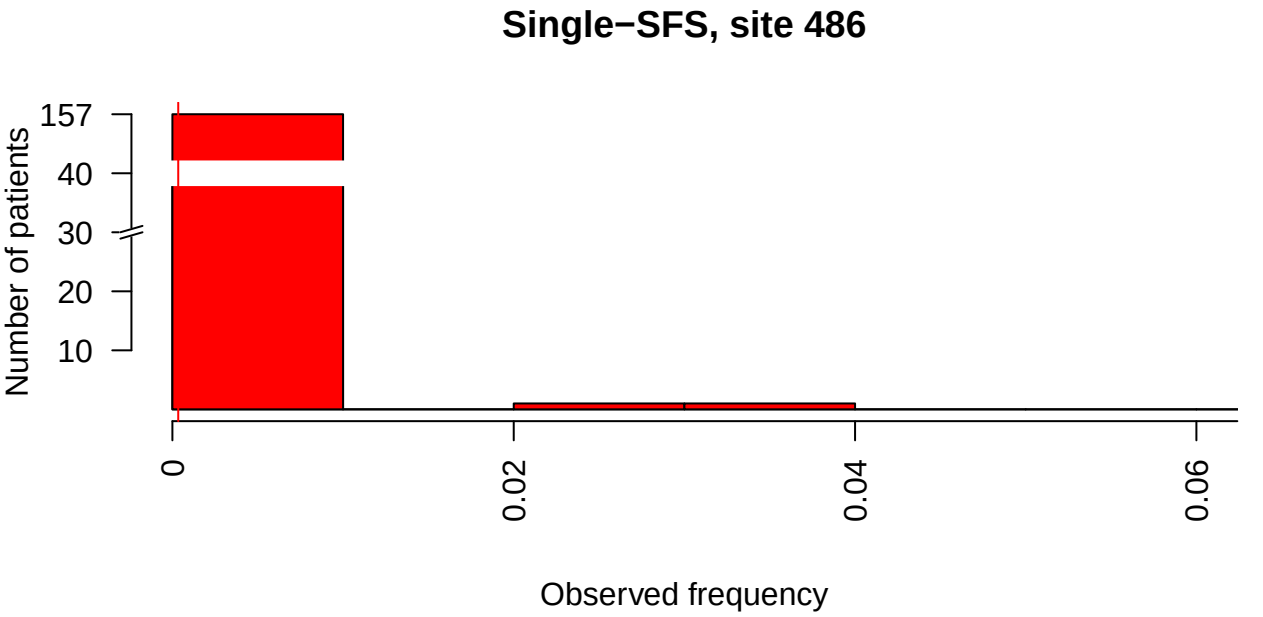

Simulated data, cost 0.0015
Number of patients
145
40
30
20
10
pvalue= 0.747
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
0.24
0.26
0.28
0.3
0.32
0.34
0.36
0.38
0.4
0.42
0.44
0.46
0.48
0.5
0.52
0.54
0.56
0.58
0.6
0.62
0.64
0.66
0.68
0.7
0.72
0.74
0.76
0.78
Observed frequency

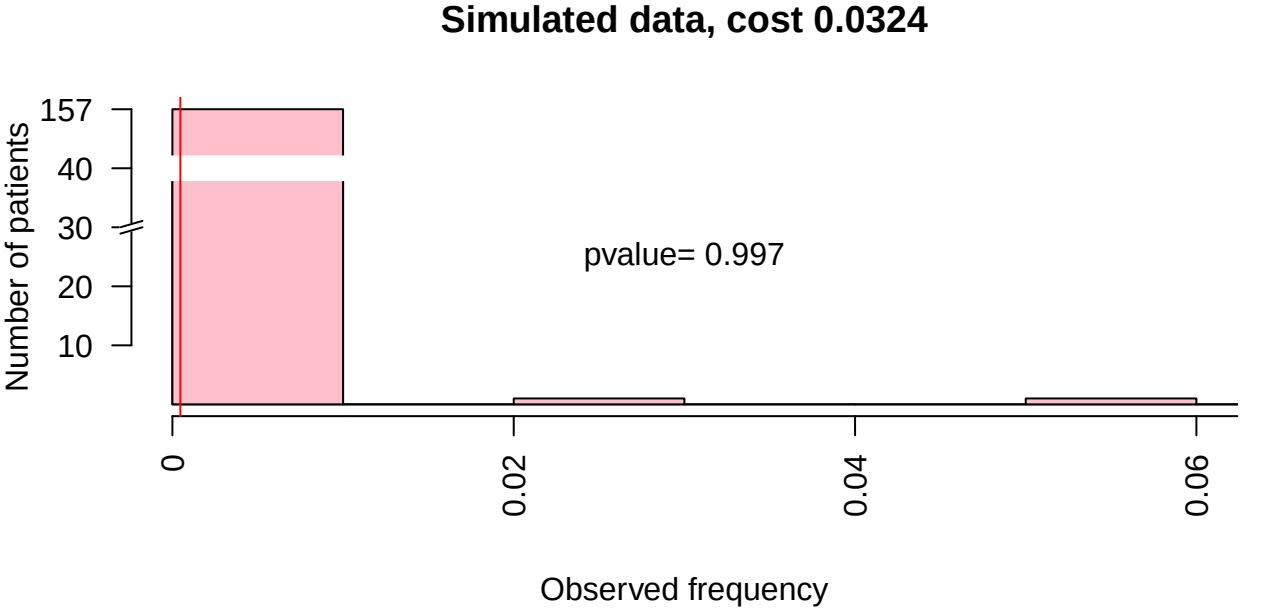

Single−SFS, site 484
Number of patients
146
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
Observed frequency

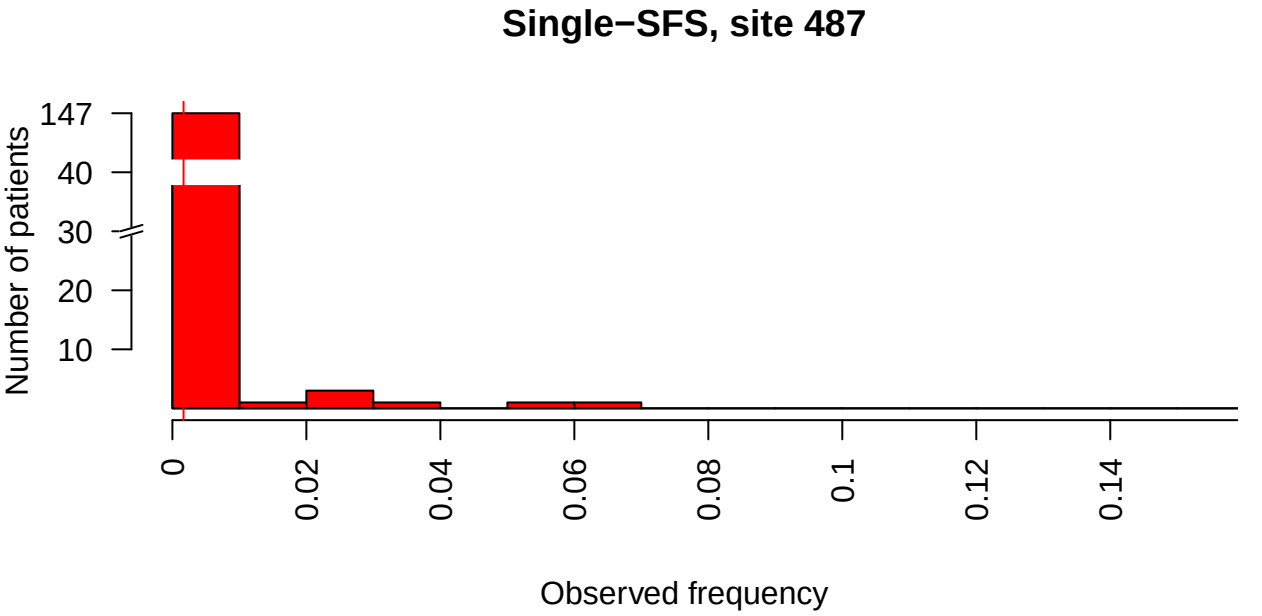

Simulated data, cost 0.0053
Number of patients
148
40
30
20
10
pvalue= 0.651
0
0.02
0.04
0.06
0.08
0.1
Observed frequency

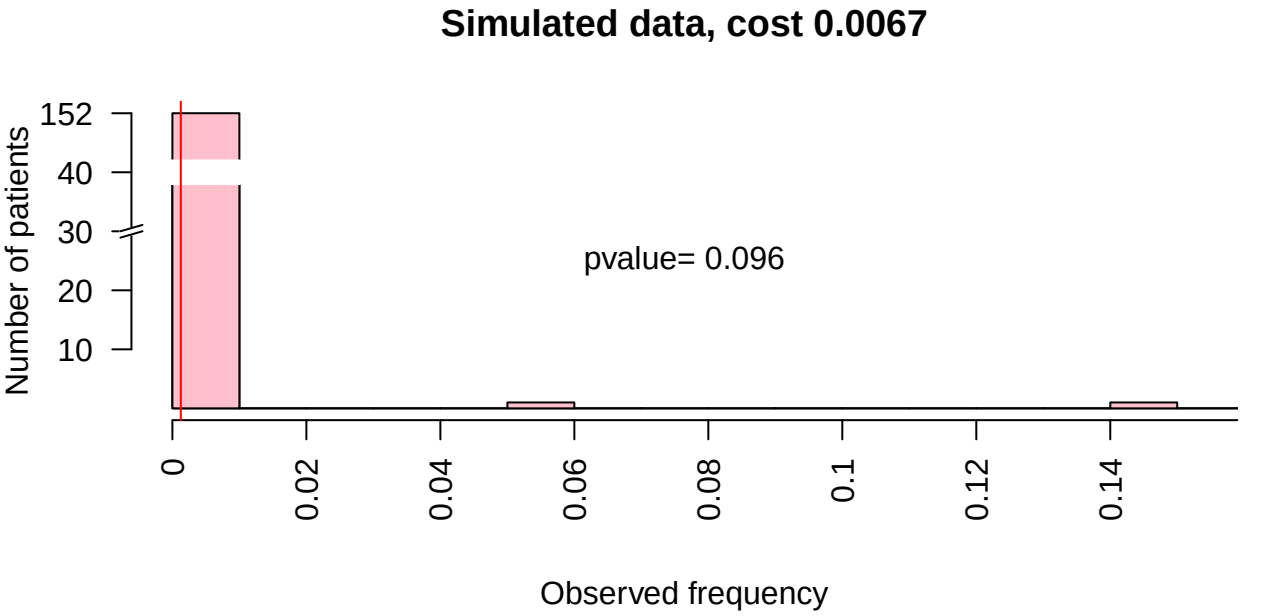

Single−SFS, site 485
Number of patients
159
40
30
20
10
0
0.02
0.04
Observed frequency

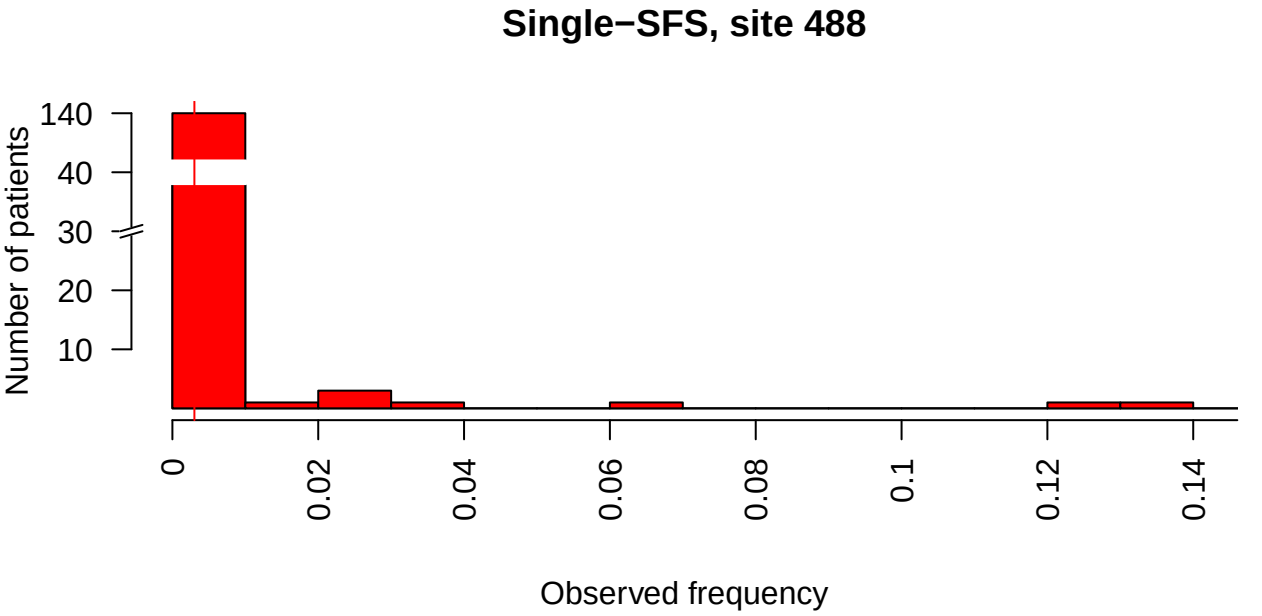

Simulated data, cost 0.0462
Number of patients
160
40
30
20
10
pvalue= 0.32
0
0.02
0.04
Observed frequency

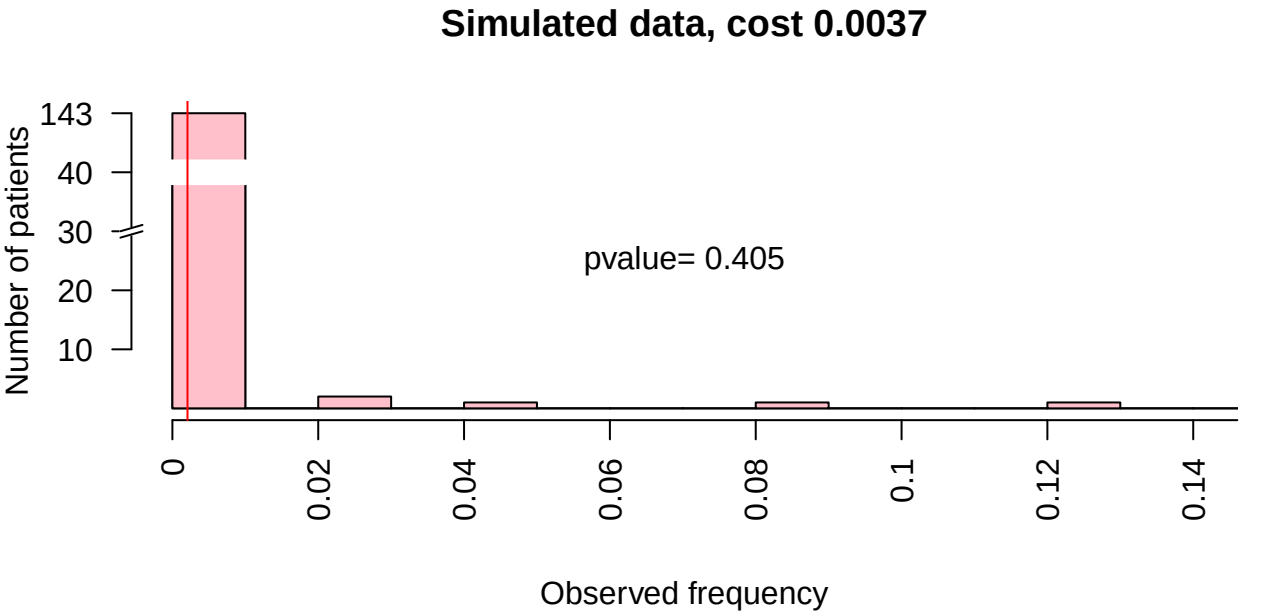

Single−SFS, site 486
Number of patients
157
40
30
20
10
0
0.02
0.04
0.06
Observed frequency

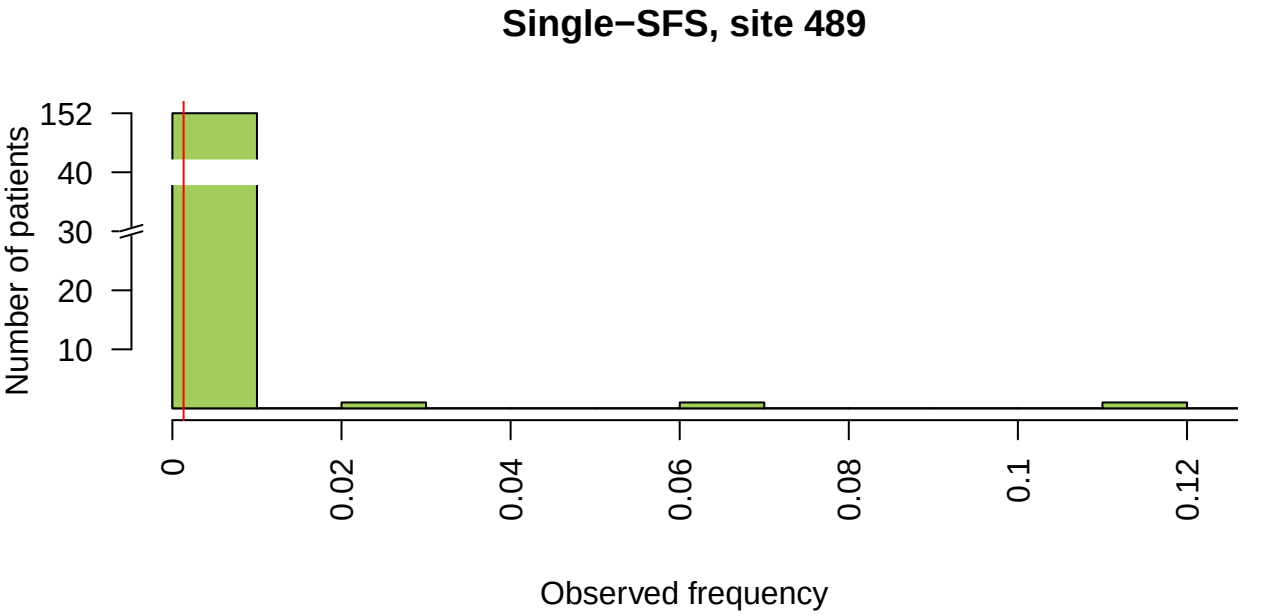

Simulated data, cost 0.0324
Number of patients
157
40
30
20
10
pvalue= 0.997
0
0.02
0.04
0.06
Observed frequency

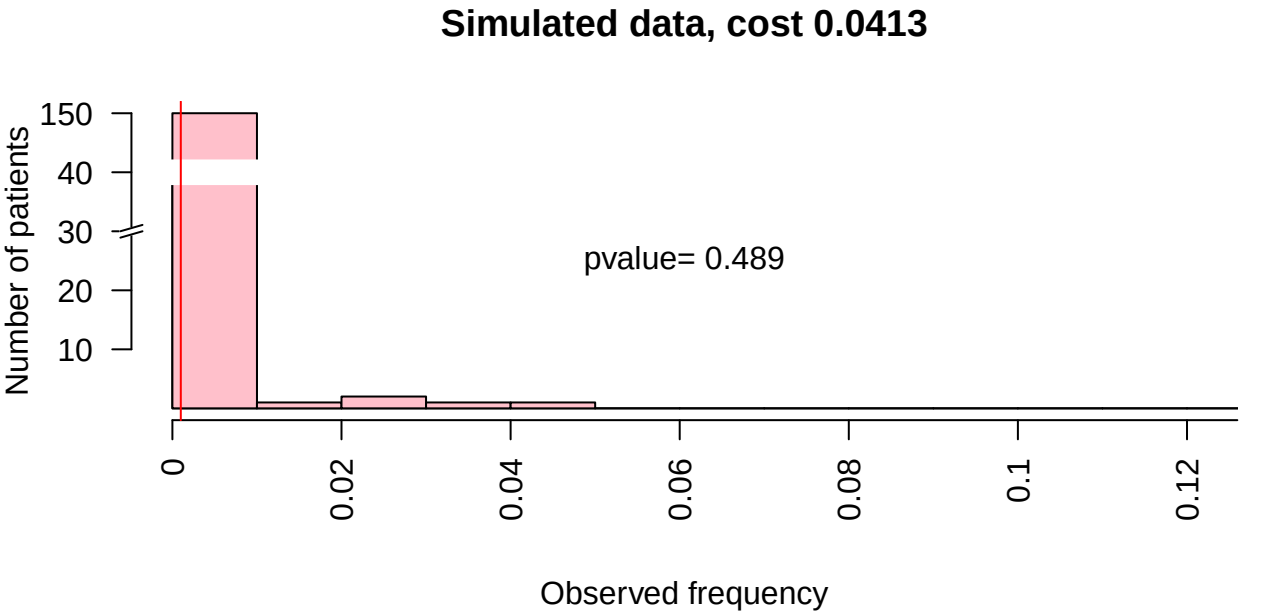

Single−SFS, site 487
Number of patients
147
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
Observed frequency

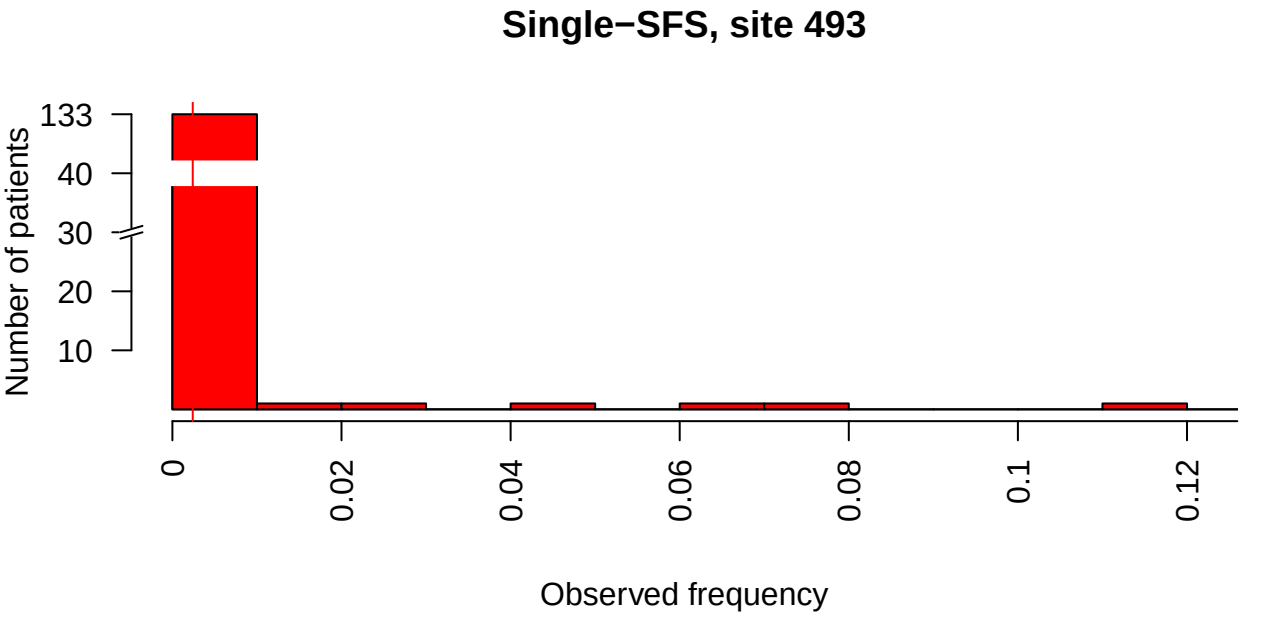

Simulated data, cost 0.0067
Number of patients
152
40
30
20
10
pvalue= 0.096
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
Observed frequency

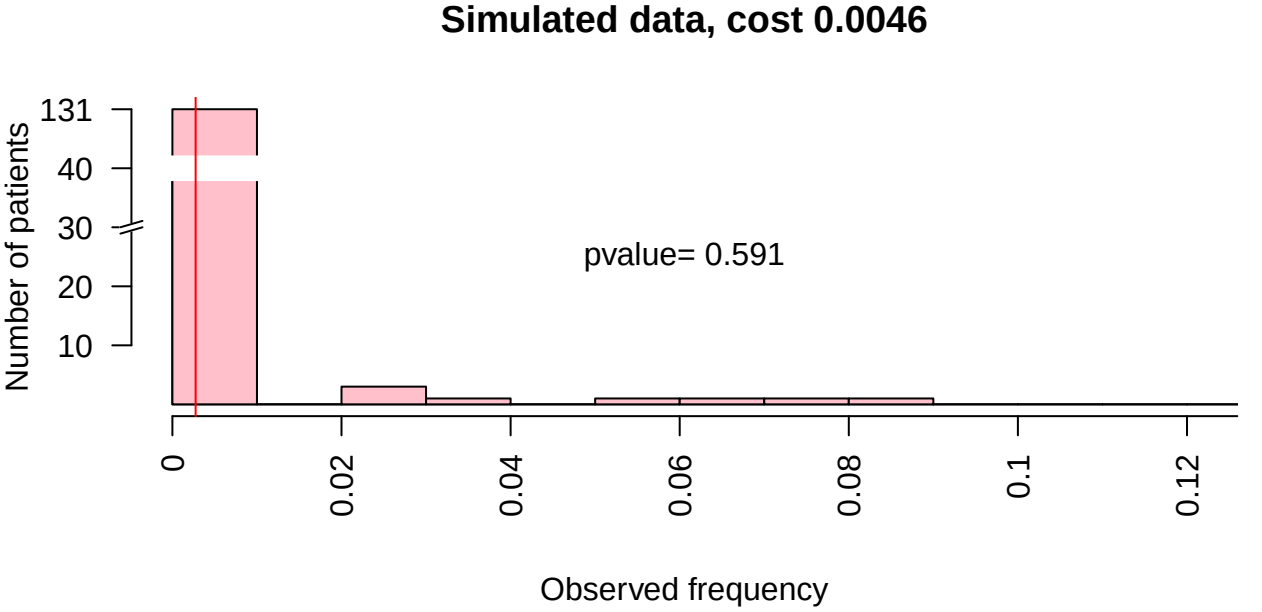

Single−SFS, site 488
Number of patients
140
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
Observed frequency

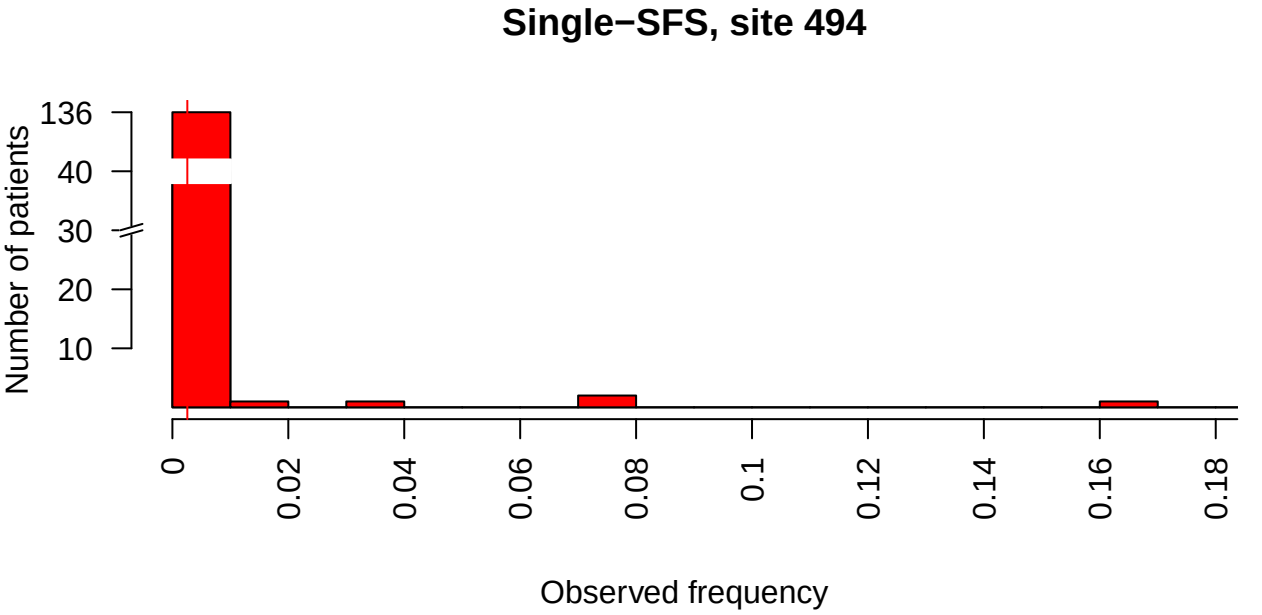

Simulated data, cost 0.0037
Number of patients
143
40
30
20
10
pvalue= 0.405
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
Observed frequency

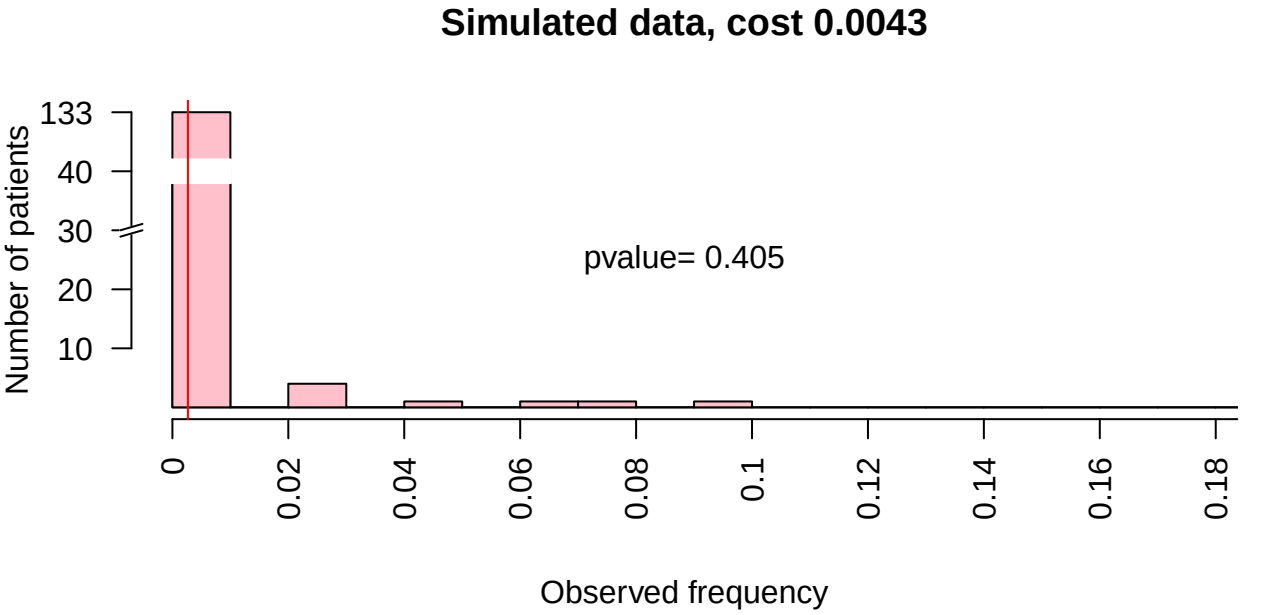

Single−SFS, site 489
Number of patients
152
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
Observed frequency

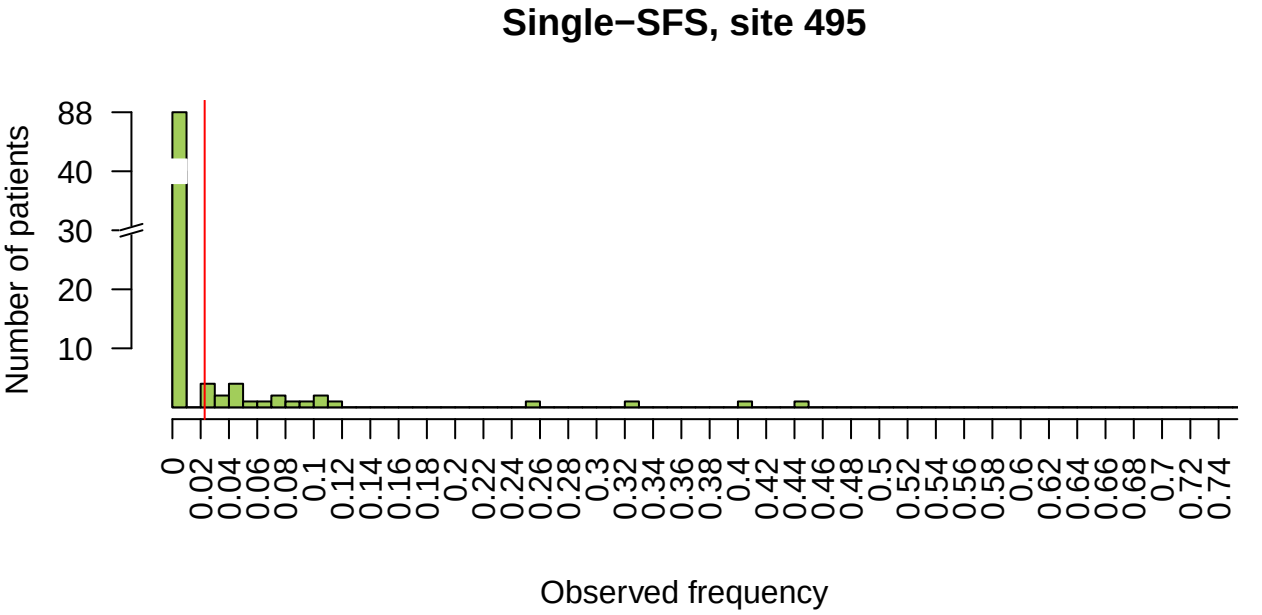

Simulated data, cost 0.0413
Number of patients
150
40
30
20
10
pvalue= 0.489
0
0.02
0.04
0.06
0.08
0.1
0.12
Observed frequency

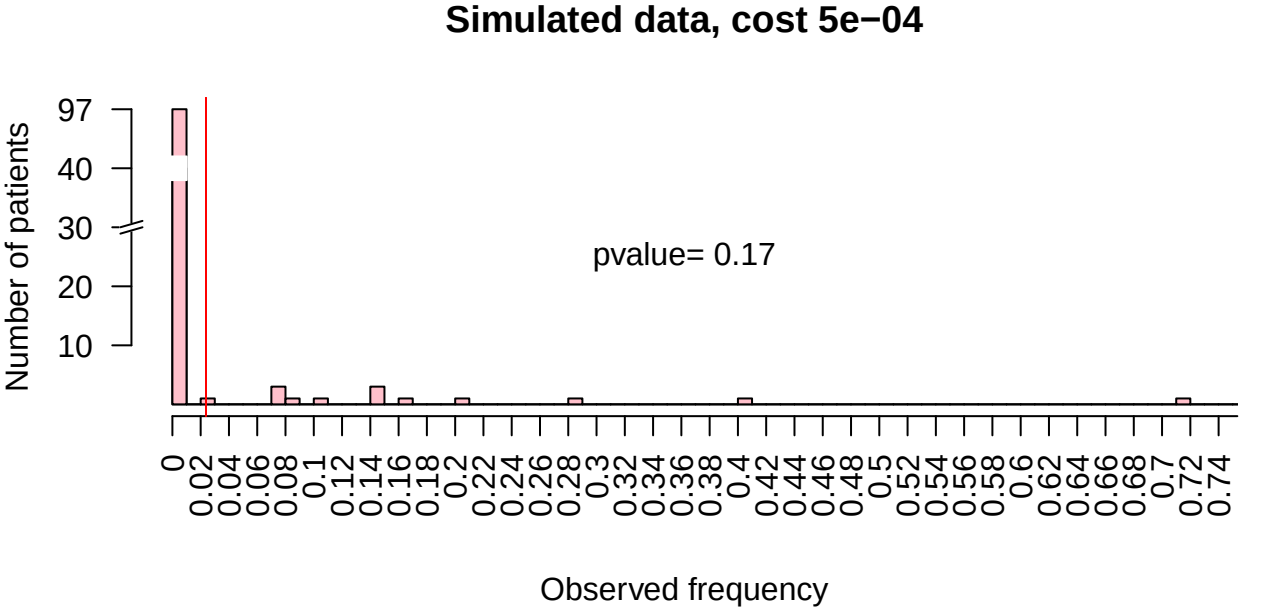

Single−SFS, site 493
Number of patients
133
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
Observed frequency

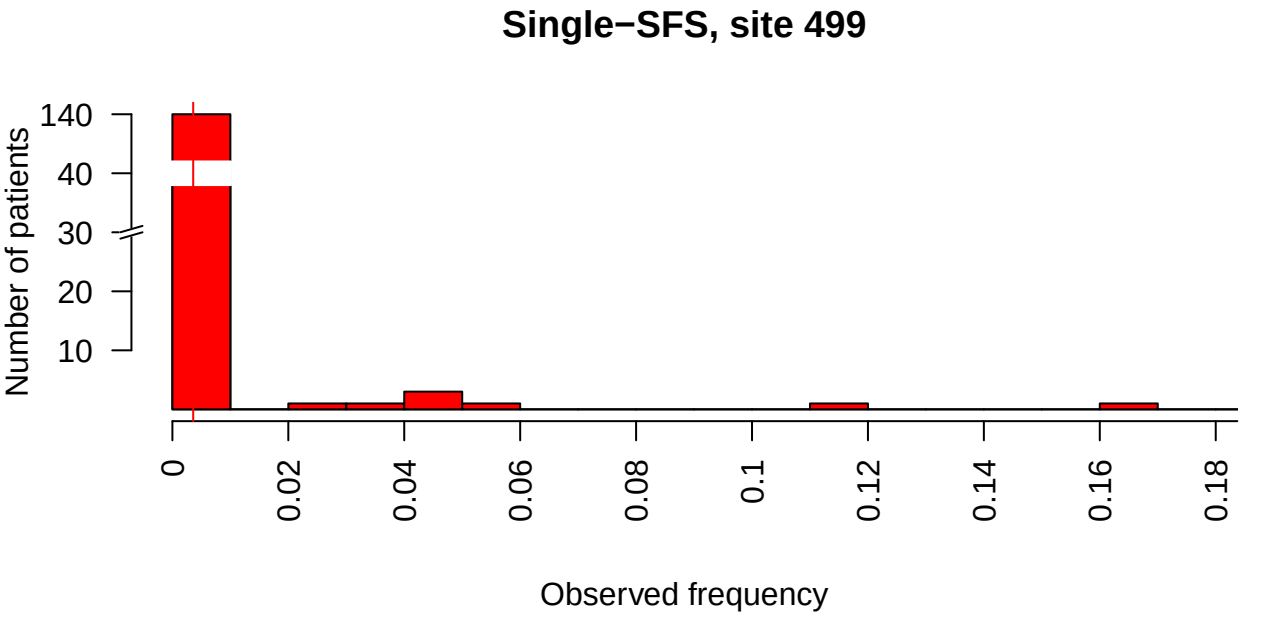

Simulated data, cost 0.0046
Number of patients
131
40
30
20
10
pvalue= 0.591
0
0.02
0.04
0.06
0.08
0.1
0.12
Observed frequency

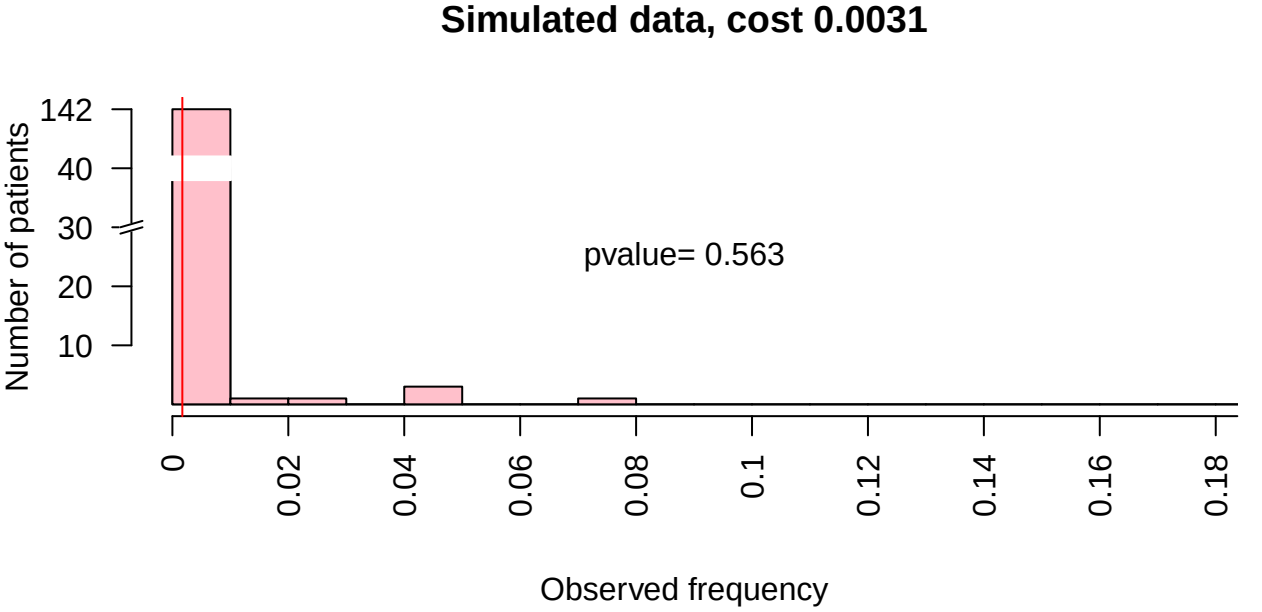

Single−SFS, site 494
Number of patients
136
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
Observed frequency

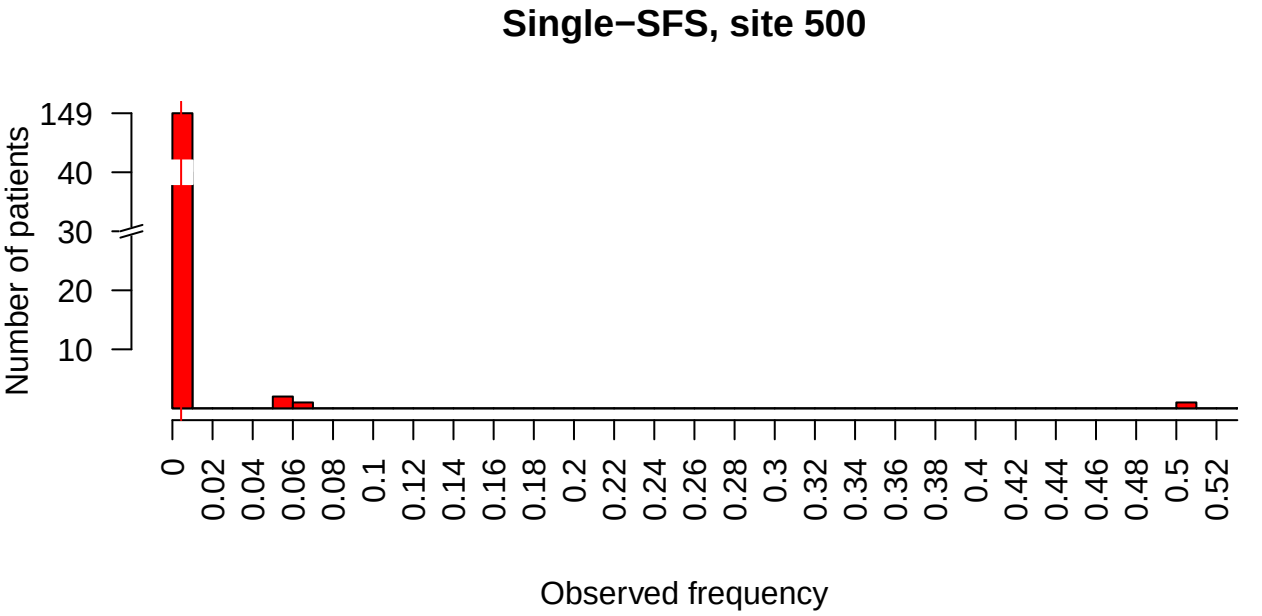

Simulated data, cost 0.0043
Number of patients
133
40
30
20
10
pvalue= 0.405
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
Observed frequency

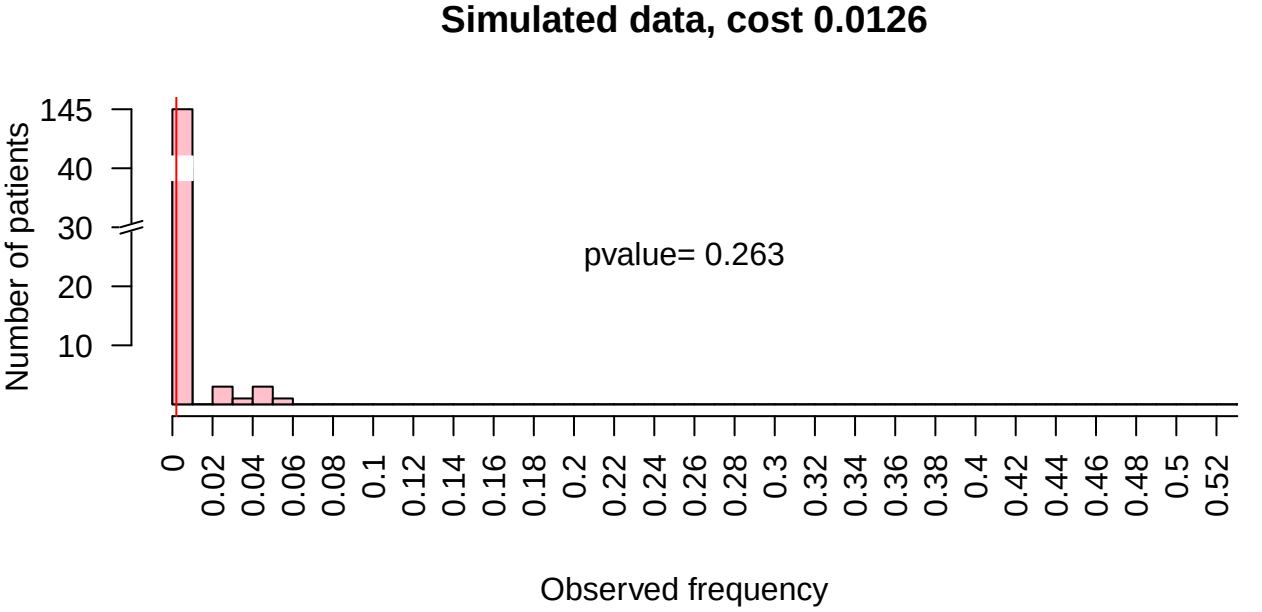

Single−SFS, site 495
Number of patients
88
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
0.24
0.26
0.28
0.3
0.32
0.34
0.36
0.38
0.4
0.42
0.44
0.46
0.48
0.5
0.52
0.54
0.56
0.58
0.6
0.62
0.64
0.66
0.68
0.7
0.72
0.74
Observed frequency

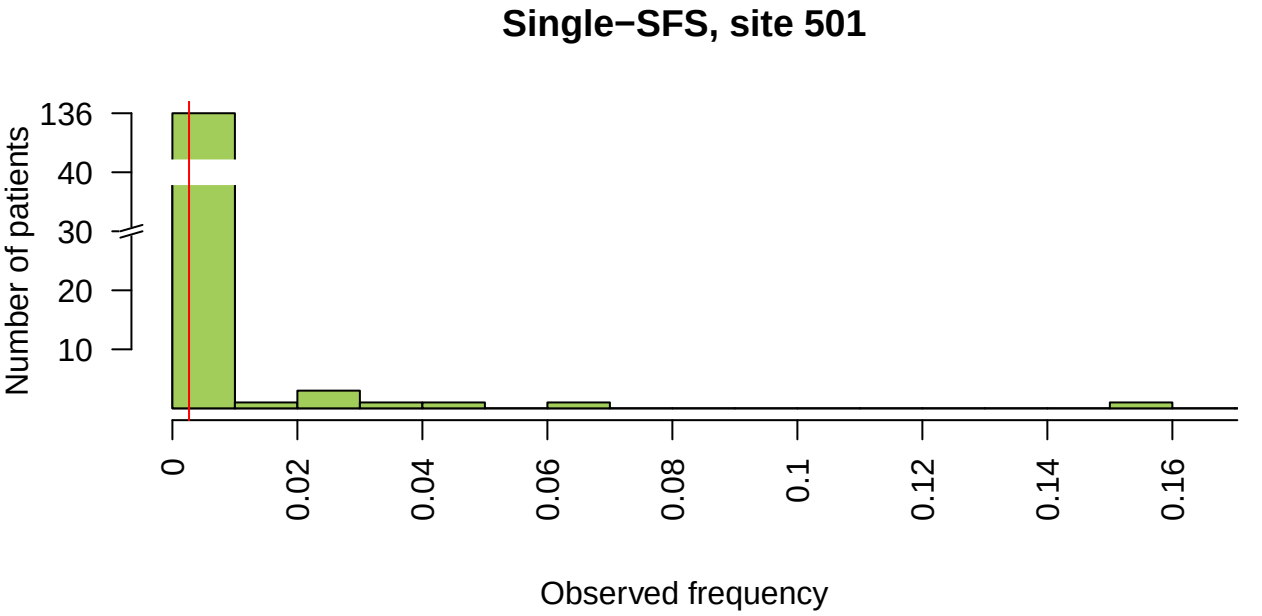

Simulated data, cost 5e−04
Number of patients
97
40
30
20
10
pvalue= 0.17
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
0.24
0.26
0.28
0.3
0.32
0.34
0.36
0.38
0.4
0.42
0.44
0.46
0.48
0.5
0.52
0.54
0.56
0.58
0.6
0.62
0.64
0.66
0.68
0.7
0.72
0.74
Observed frequency

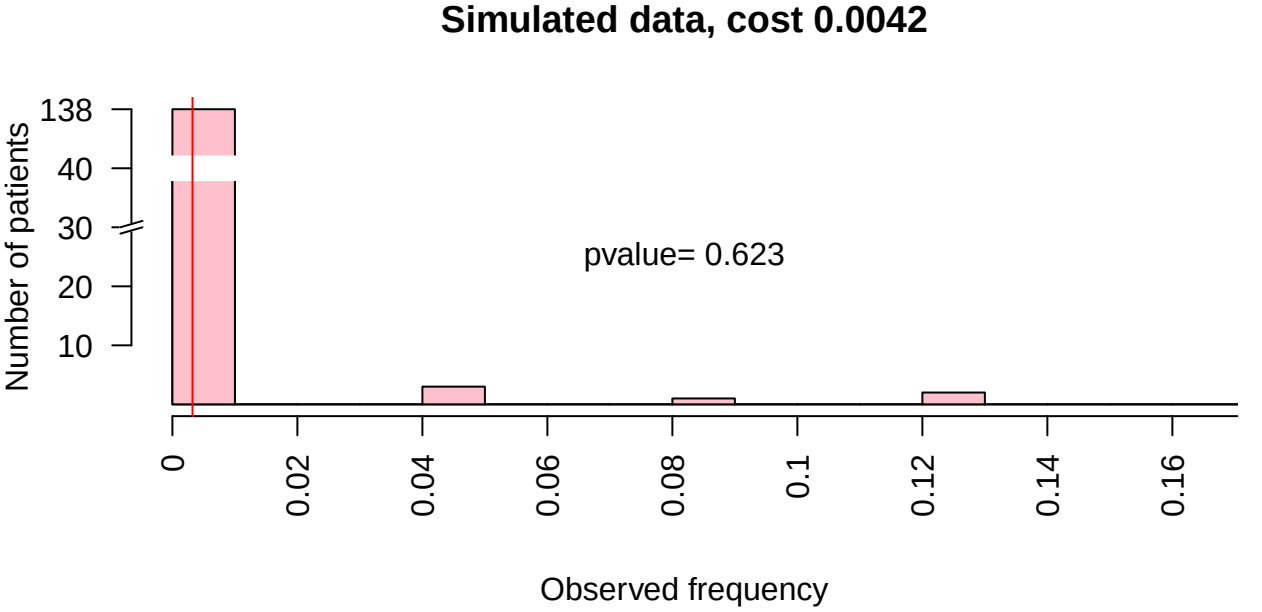

Single−SFS, site 499
Number of patients
140
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
Observed frequency

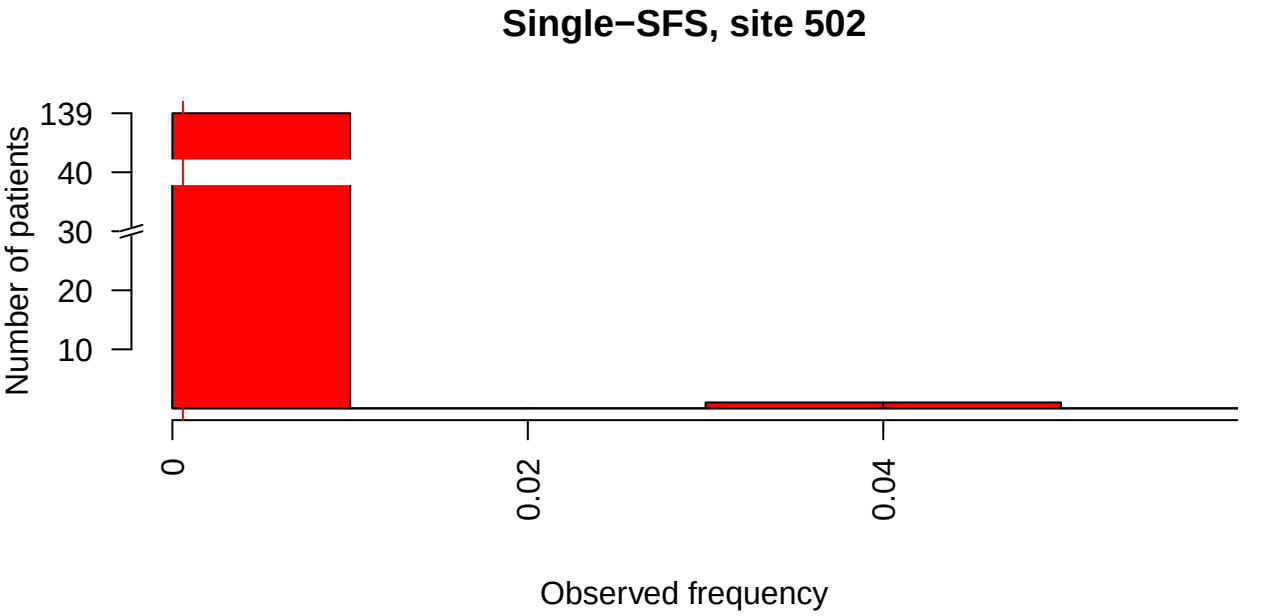

Simulated data, cost 0.0031
Number of patients
142
40
30
20
10
pvalue= 0.563
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
Observed frequency

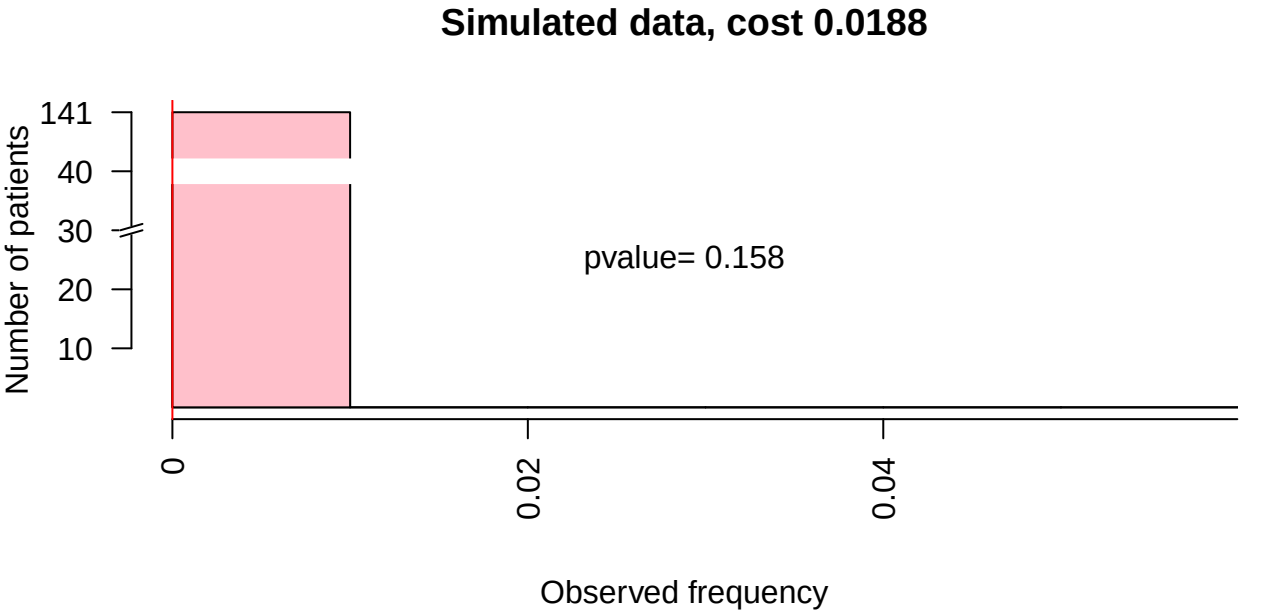

Single−SFS, site 500
Number of patients
149
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
0.24
0.26
0.28
0.3
0.32
0.34
0.36
0.38
0.4
0.42
0.44
0.46
0.48
0.5
0.52
Observed frequency

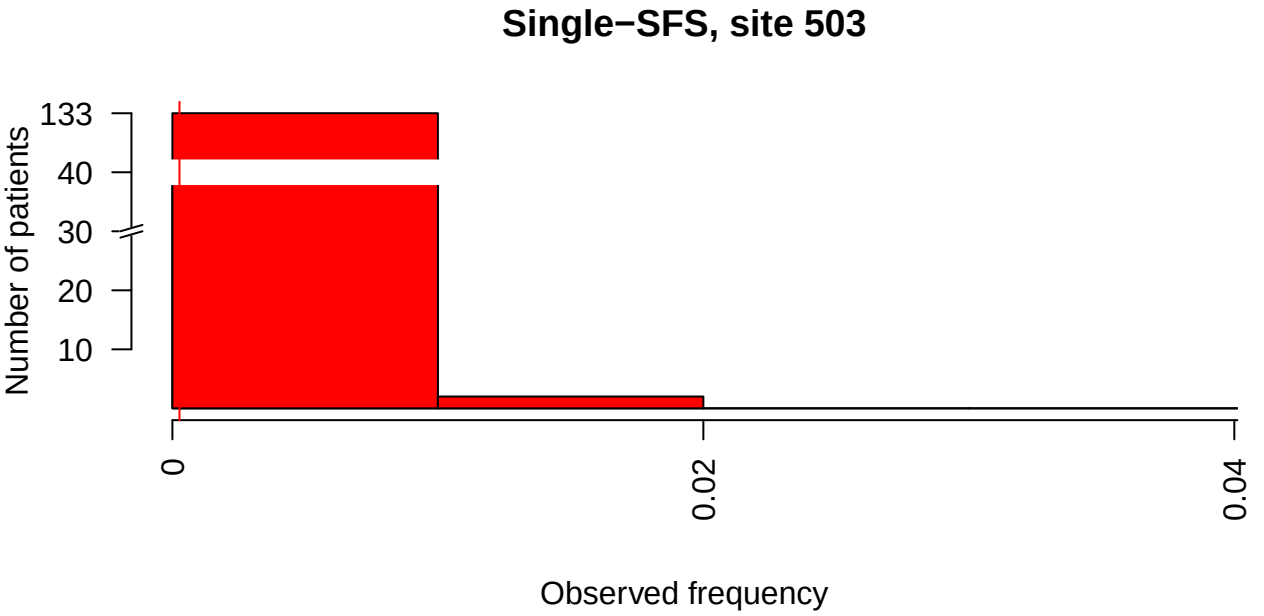

Simulated data, cost 0.0126
Number of patients
145
40
30
20
10
pvalue= 0.263
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
0.24
0.26
0.28
0.3
0.32
0.34
0.36
0.38
0.4
0.42
0.44
0.46
0.48
0.5
0.52
Observed frequency

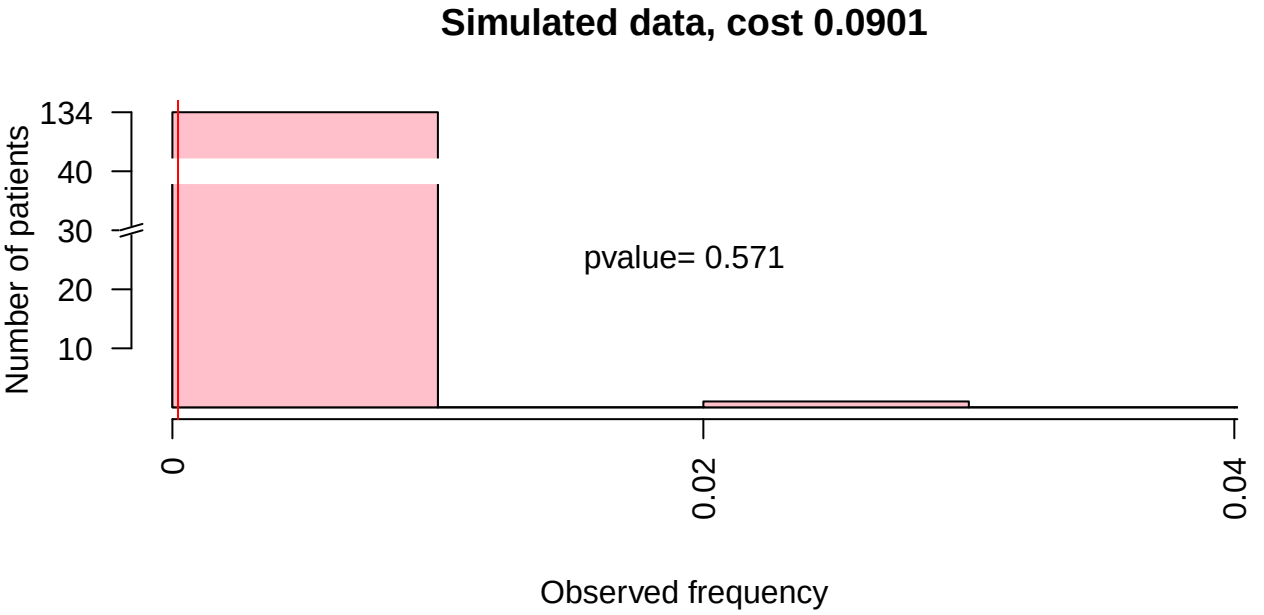

Single−SFS, site 501
Number of patients
136
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
Observed frequency

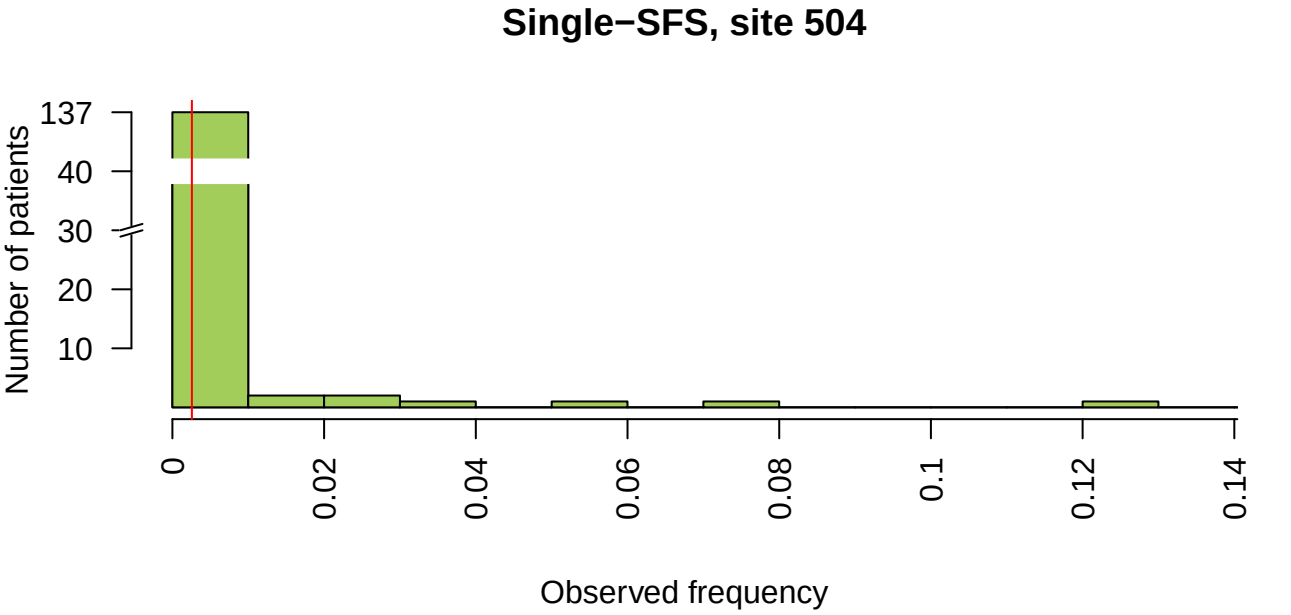

Simulated data, cost 0.0042
Number of patients
138
40
30
20
10
pvalue= 0.623
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
Observed frequency

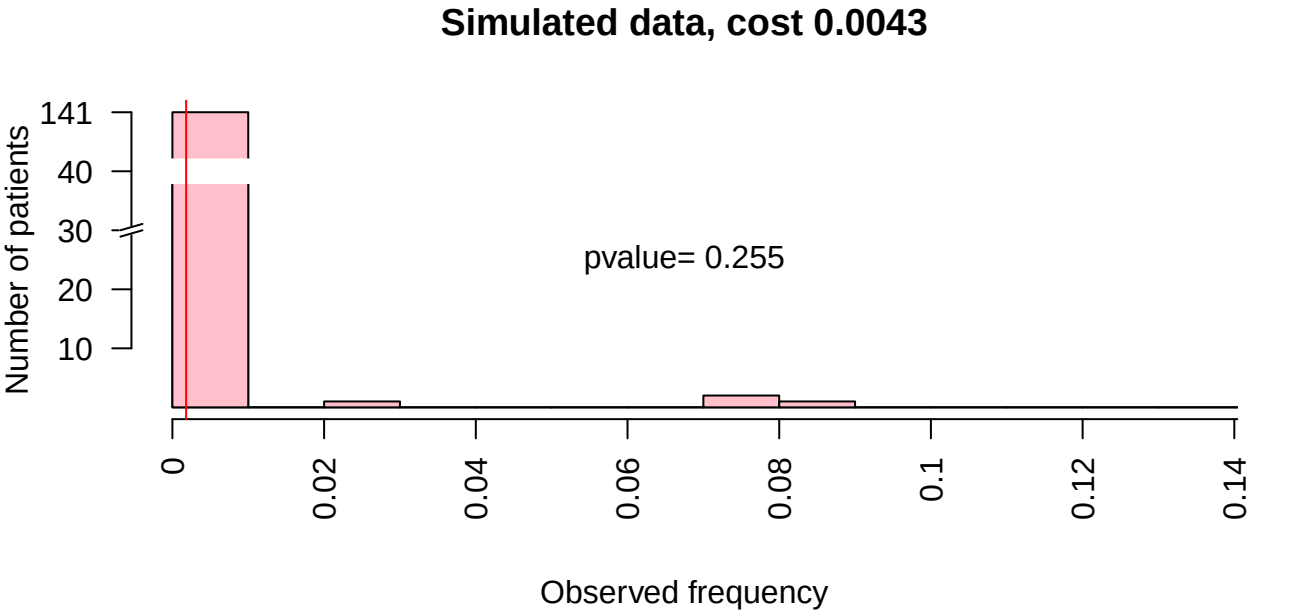

Single−SFS, site 502
Number of patients
139
40
30
20
10
0
0.02
0.04
Observed frequency

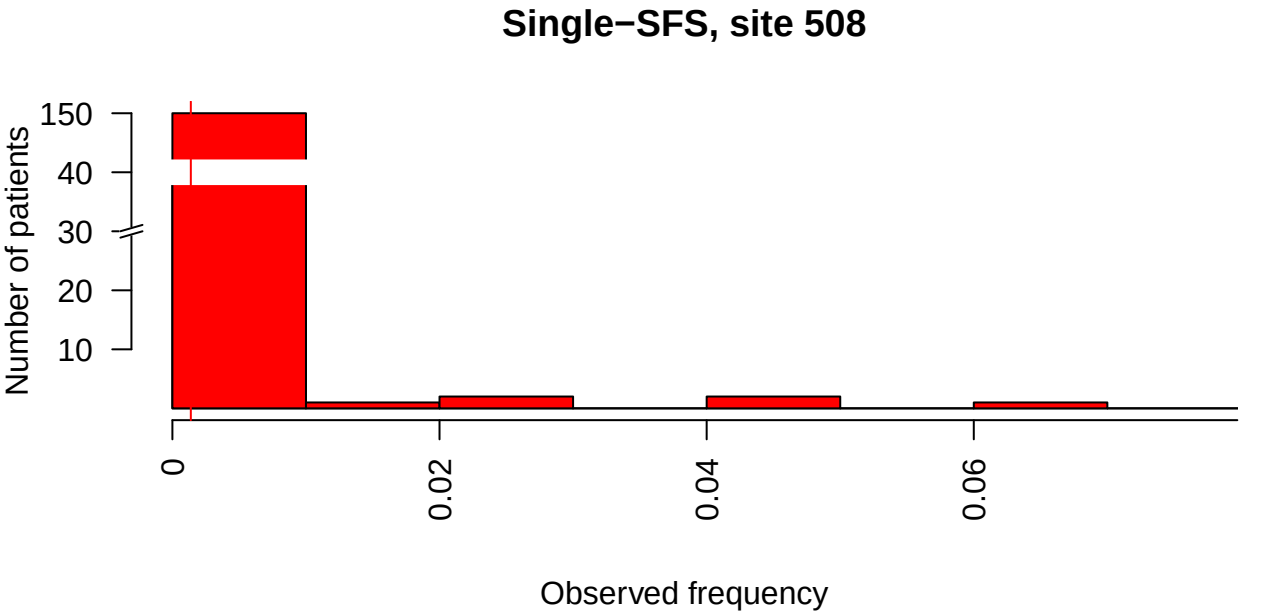

Simulated data, cost 0.0188
Number of patients
141
40
30
20
10
pvalue= 0.158
0
0.02
0.04
Observed frequency

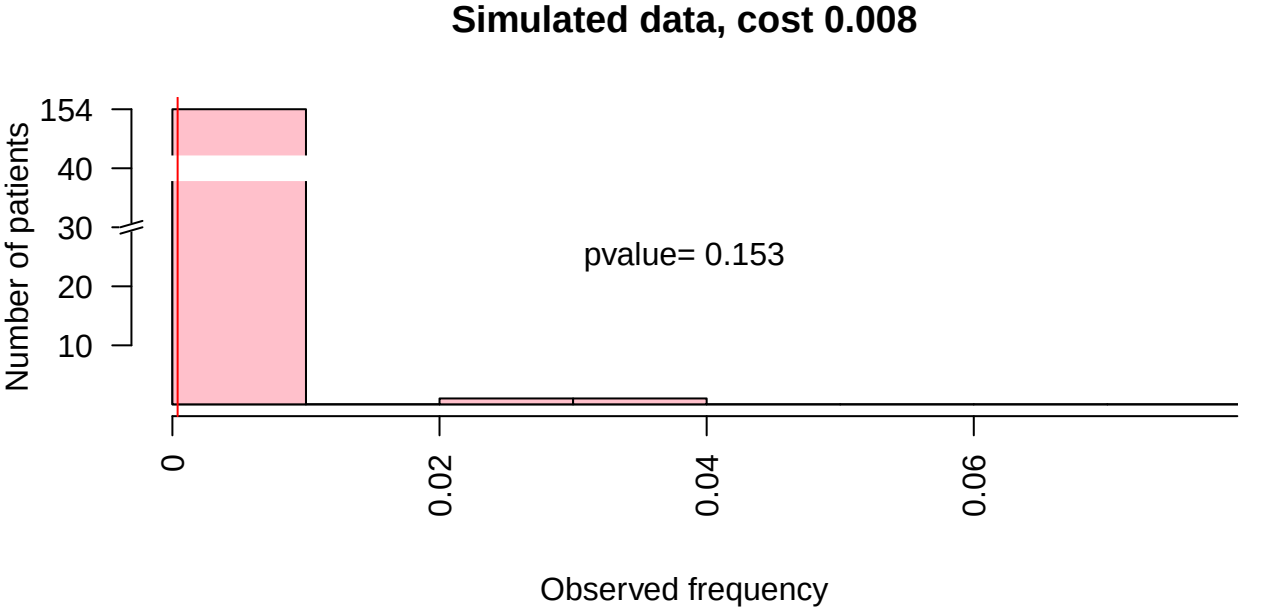

Single−SFS, site 503
Number of patients
133
40
30
20
10
0
0.02
0.04
Observed frequency

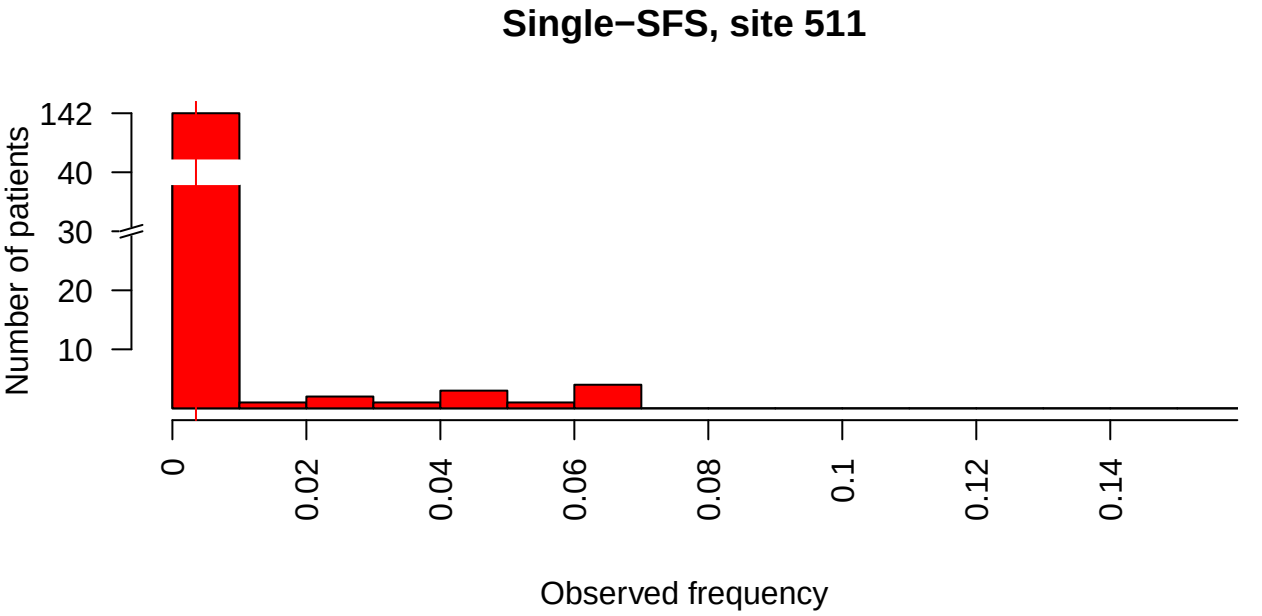

Simulated data, cost 0.0901
Number of patients
134
40
30
20
10
pvalue= 0.571
0
0.02
0.04
Observed frequency

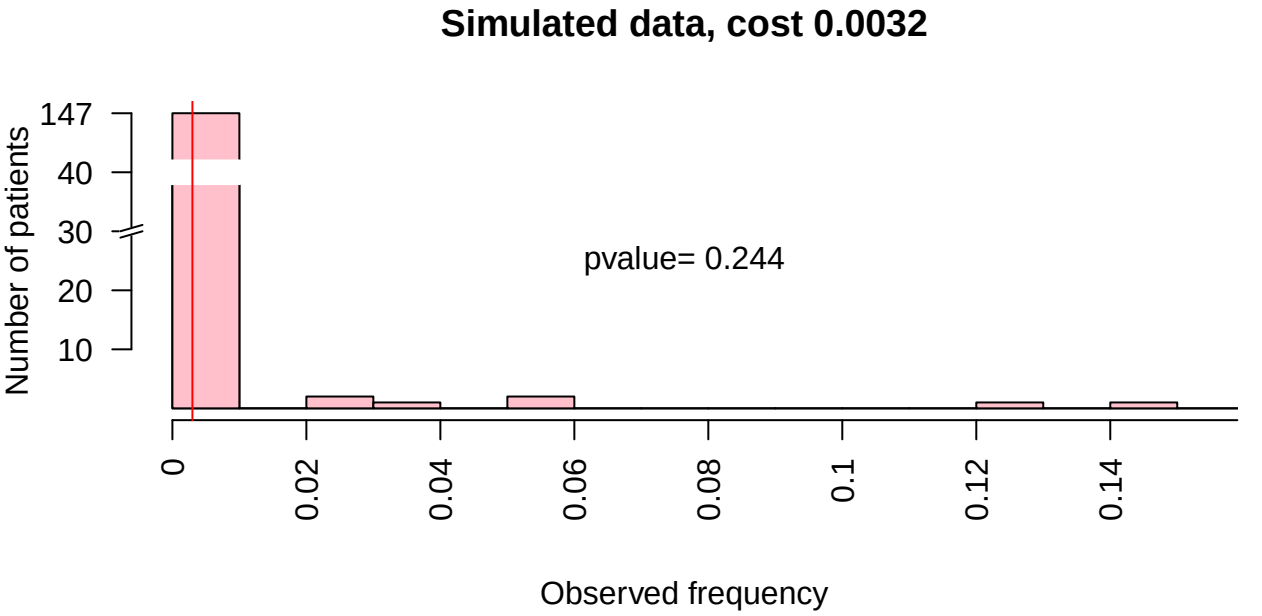

Single−SFS, site 504
Number of patients
137
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
Observed frequency

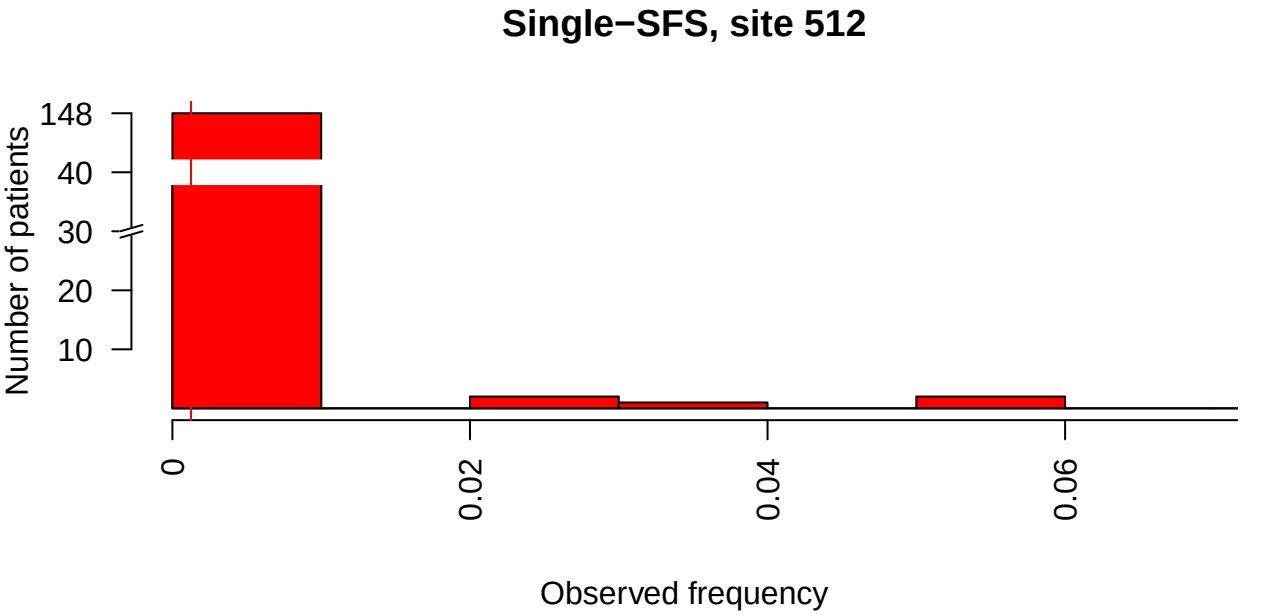

Simulated data, cost 0.0043
Number of patients
141
40
30
20
10
pvalue= 0.255
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
Observed frequency

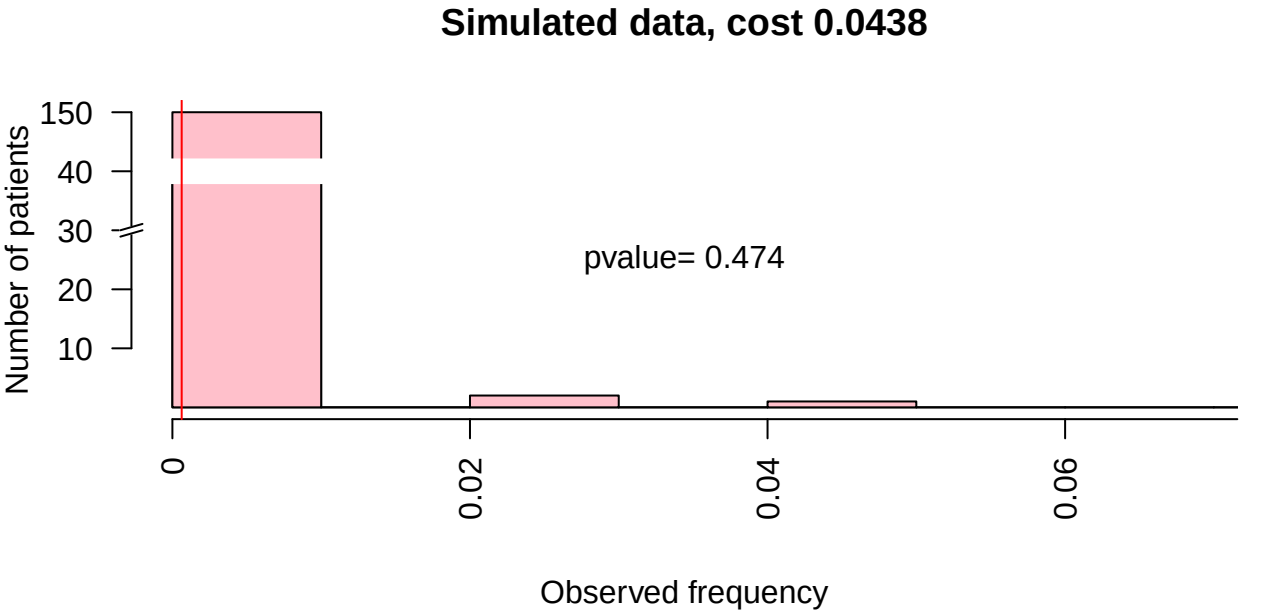

Single−SFS, site 508
Number of patients
150
40
30
20
10
0
0.02
0.04
0.06
Observed frequency

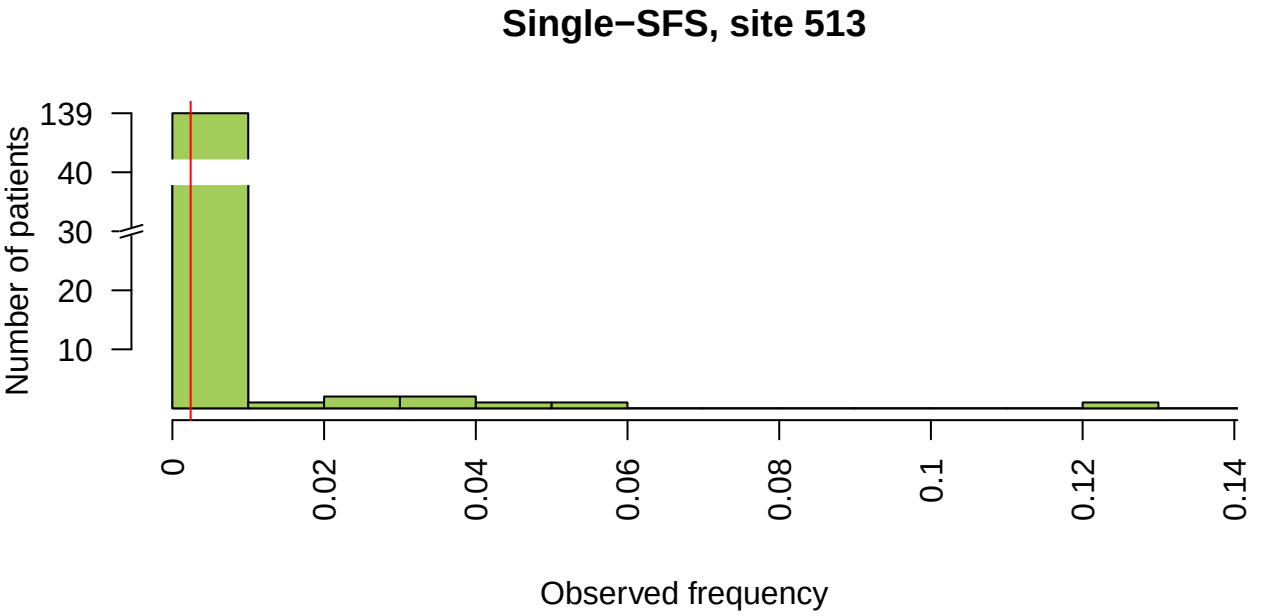

Simulated data, cost 0.008
Number of patients
154
40
30
20
10
pvalue= 0.153
0
0.02
0.04
0.06
Observed frequency

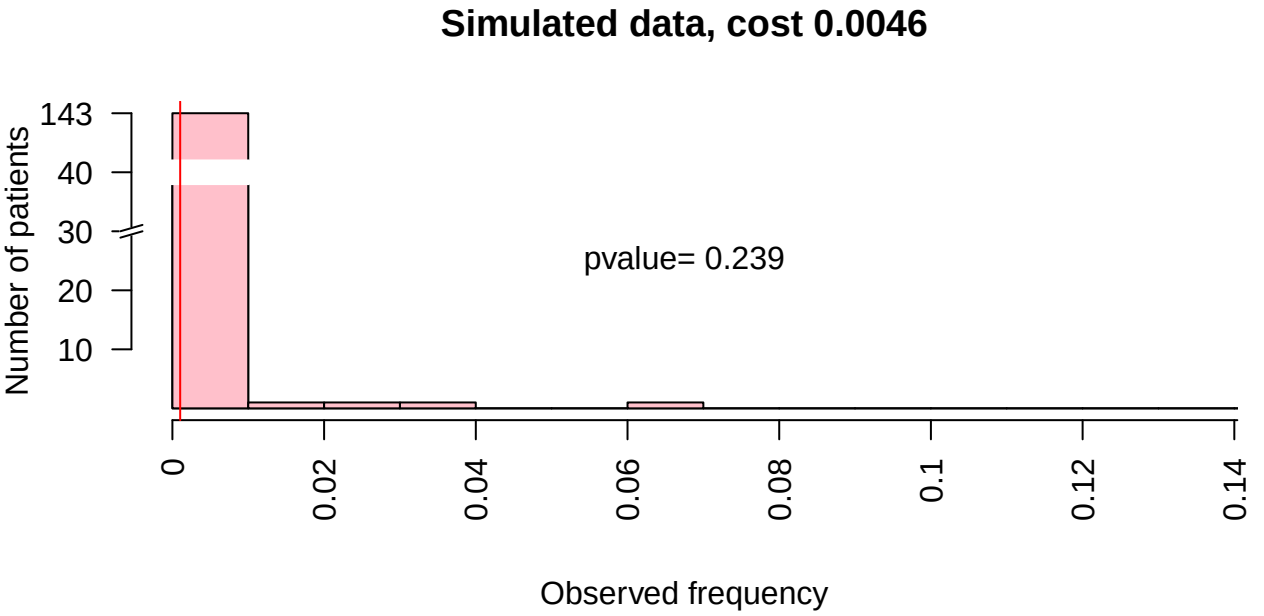

Single−SFS, site 511
Number of patients
142
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
Observed frequency

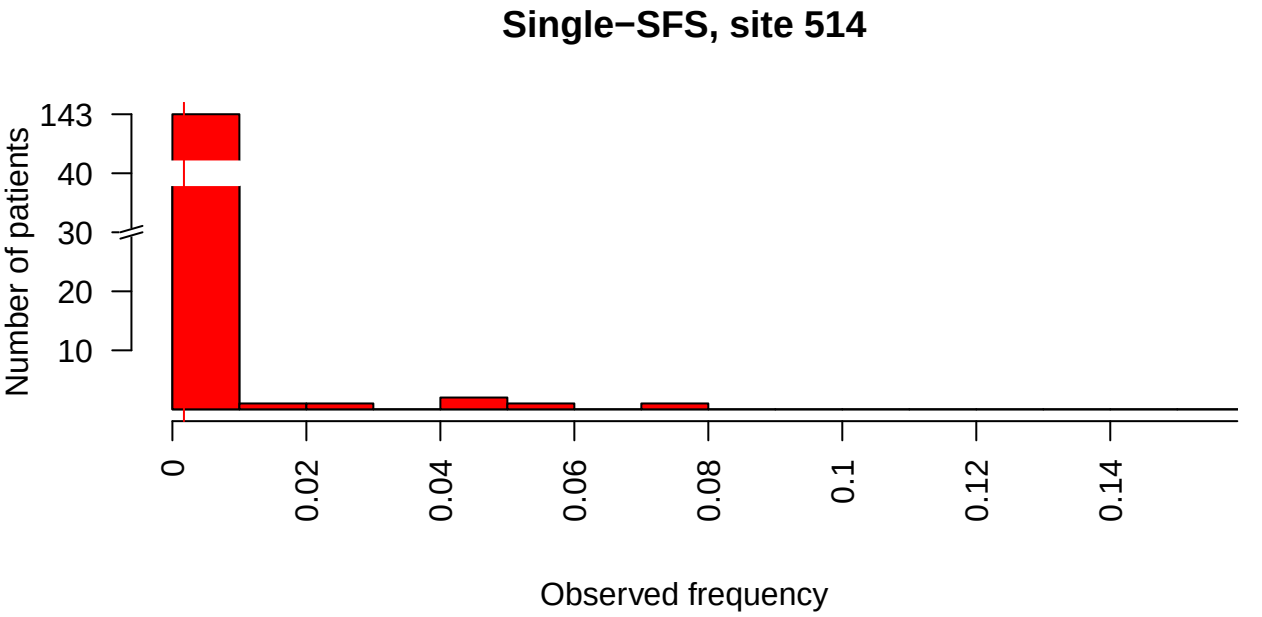

Simulated data, cost 0.0032
Number of patients
147
40
30
20
10
pvalue= 0.244
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
Observed frequency

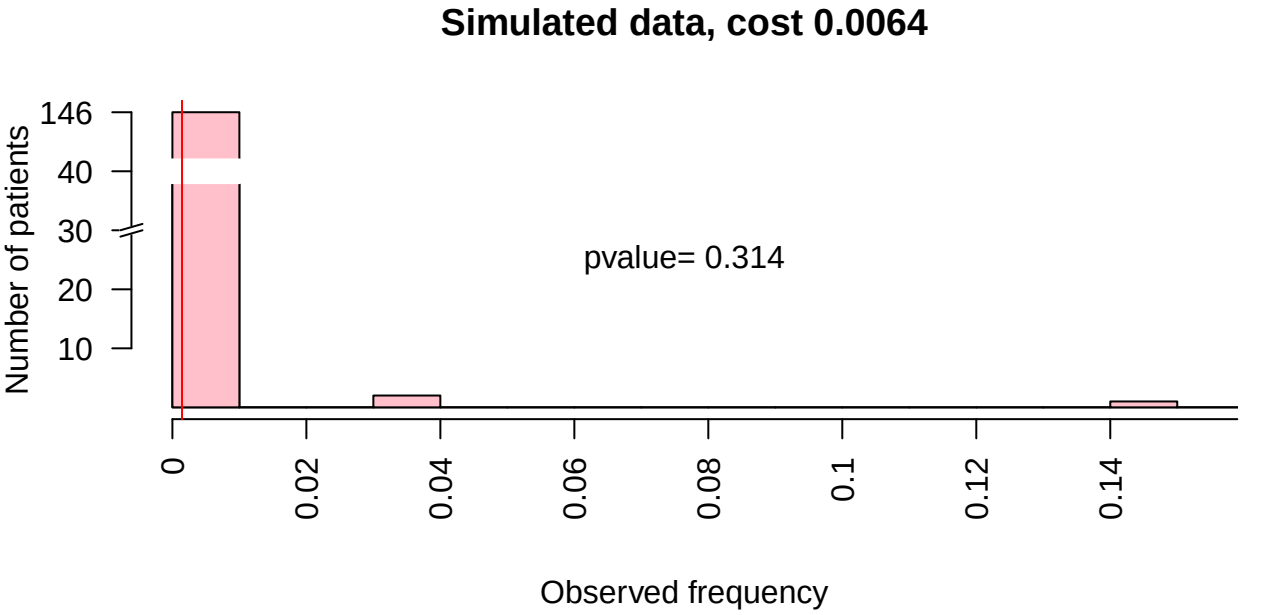

Single−SFS, site 512
Number of patients
148
40
30
20
10
0
0.02
0.04
0.06
Observed frequency

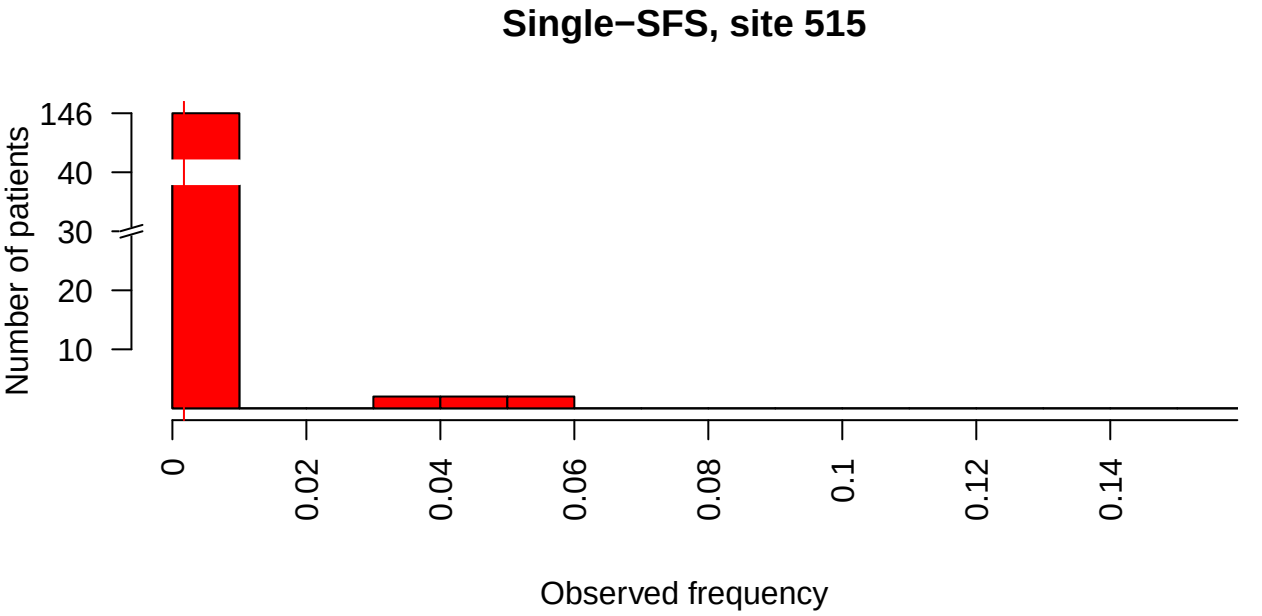

Simulated data, cost 0.0438
Number of patients
150
40
30
20
10
pvalue= 0.474
0
0.02
0.04
0.06
Observed frequency

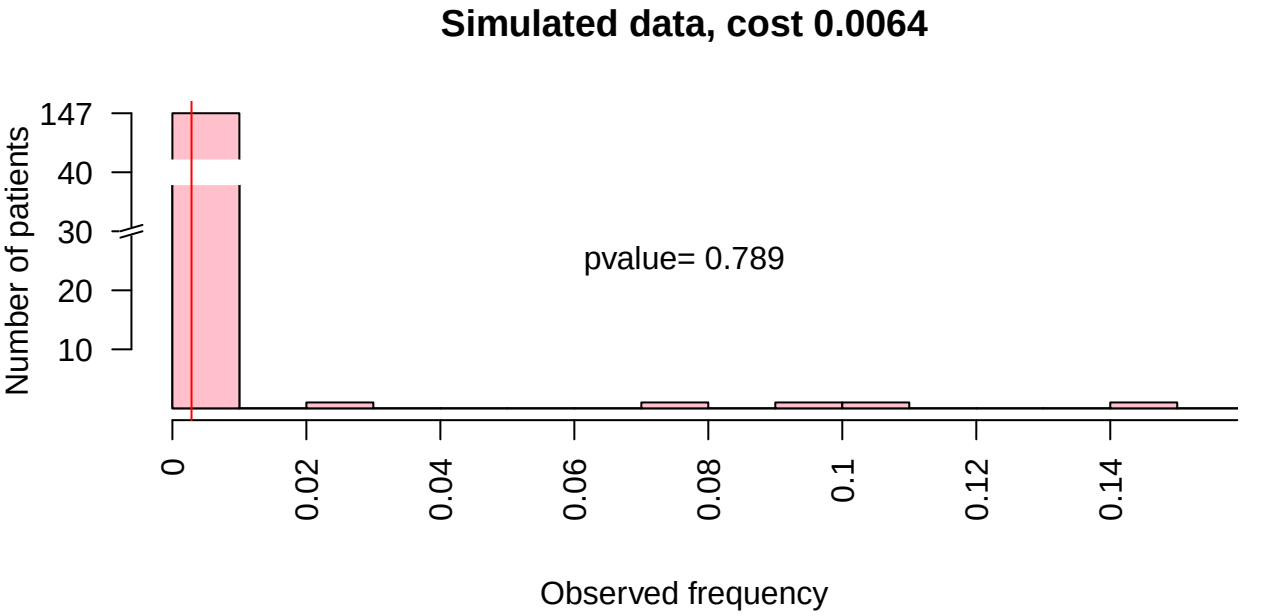

Single−SFS, site 513
Number of patients
139
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
Observed frequency

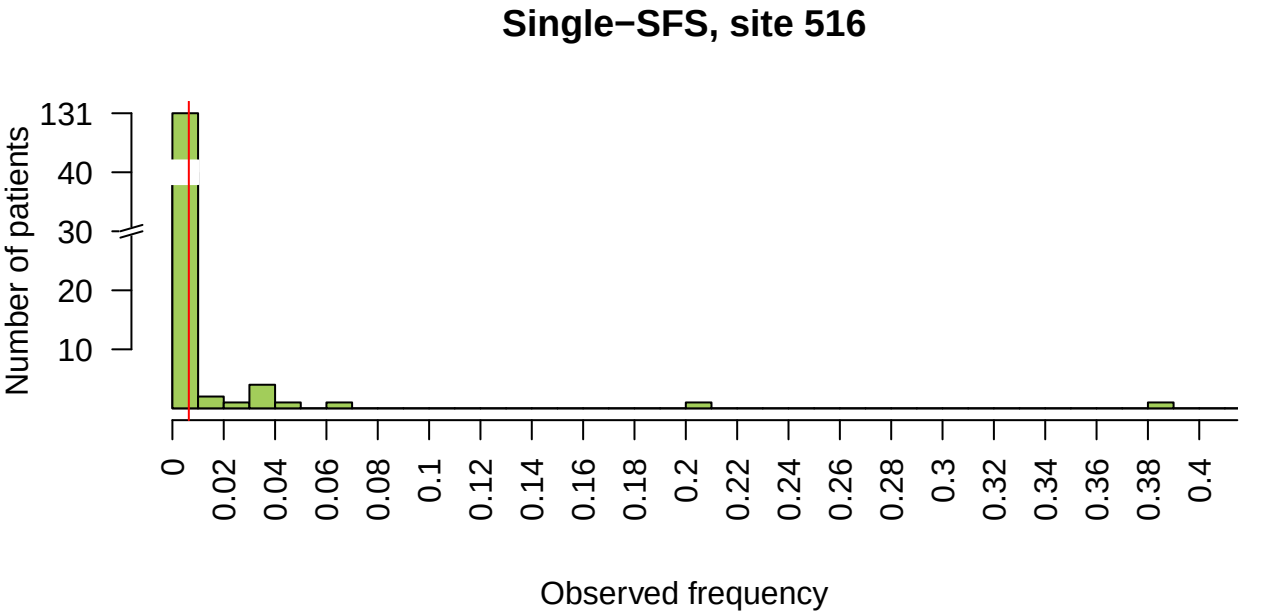

Simulated data, cost 0.0046
Number of patients
143
40
30
20
10
pvalue= 0.239
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
Observed frequency

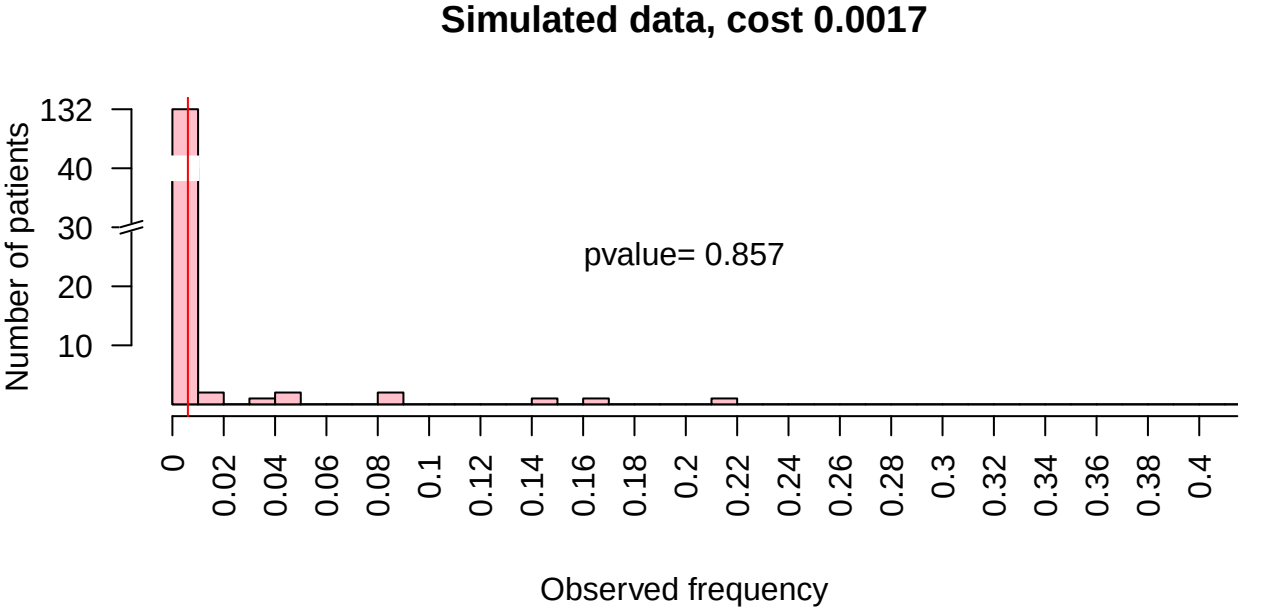

Single−SFS, site 514
Number of patients
143
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
Observed frequency

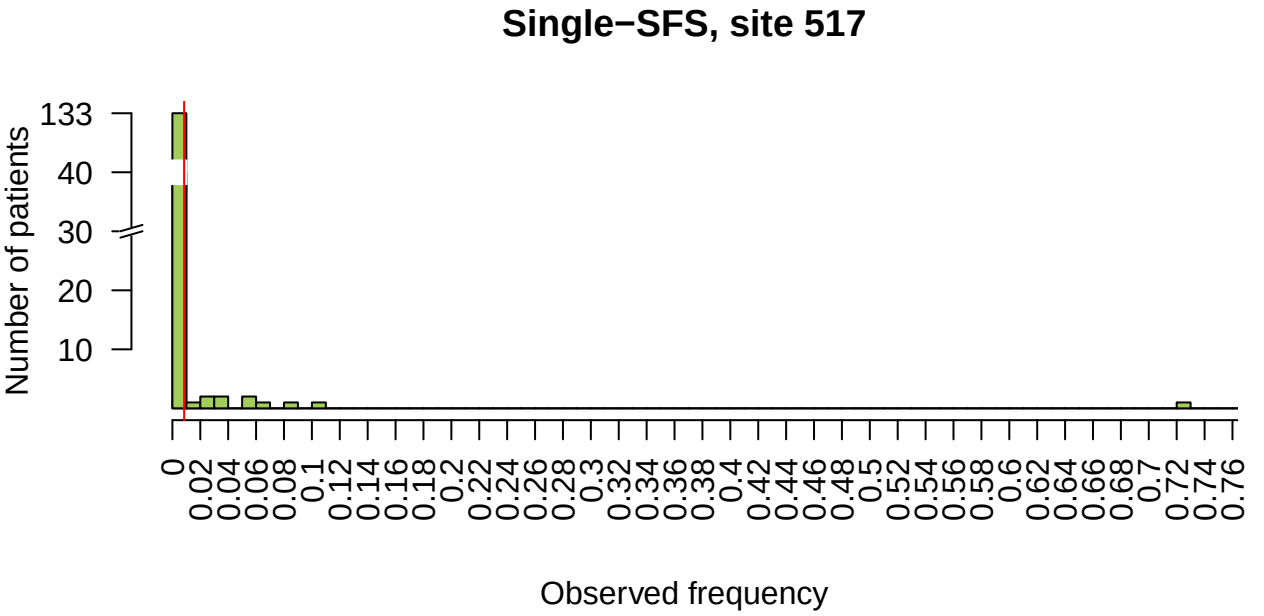

Simulated data, cost 0.0064
Number of patients
146
40
30
20
10
pvalue= 0.314
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
Observed frequency

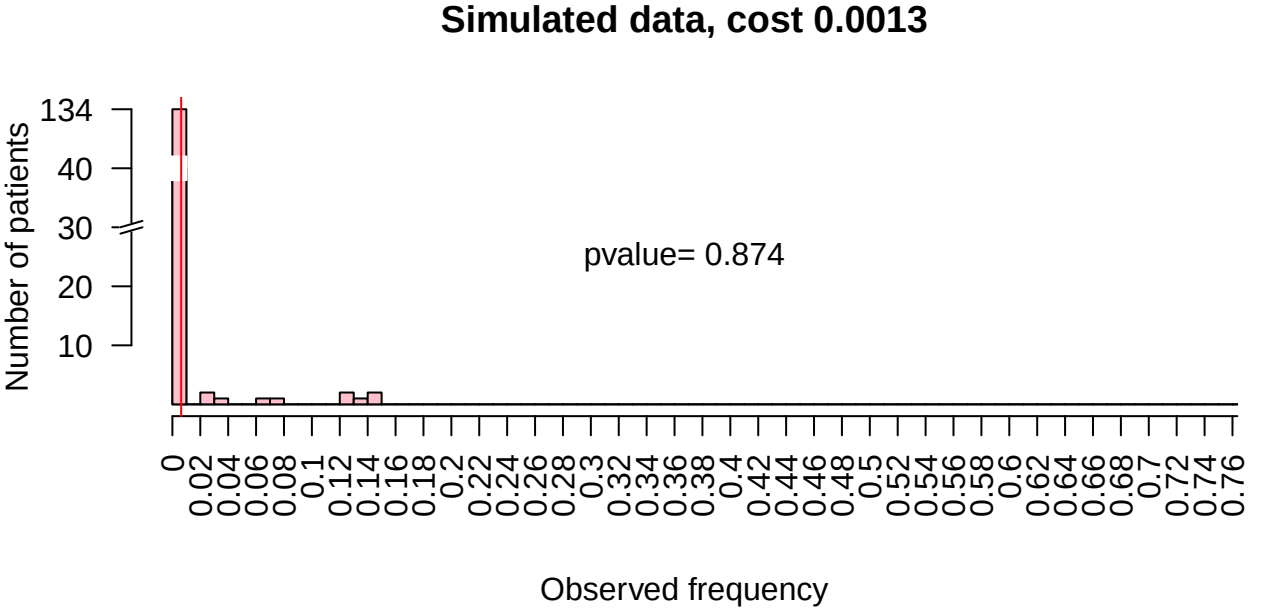

Single−SFS, site 515
Number of patients
146
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
Observed frequency

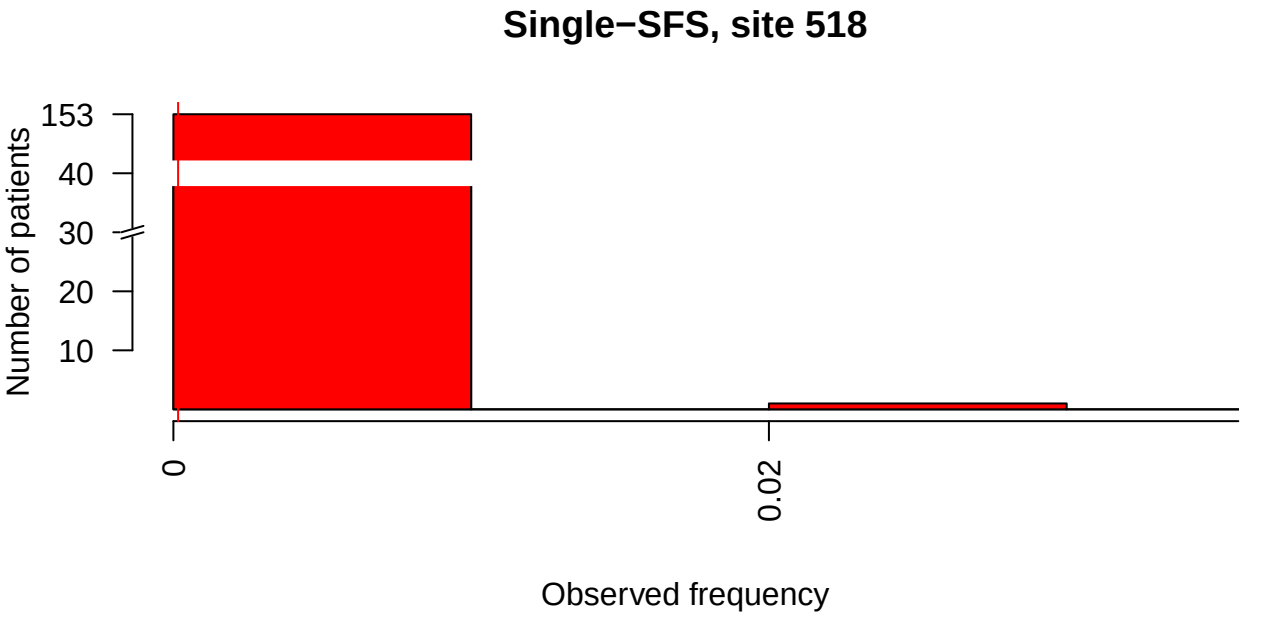

Simulated data, cost 0.0064
Number of patients
147
40
30
20
10
pvalue= 0.789
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
Observed frequency

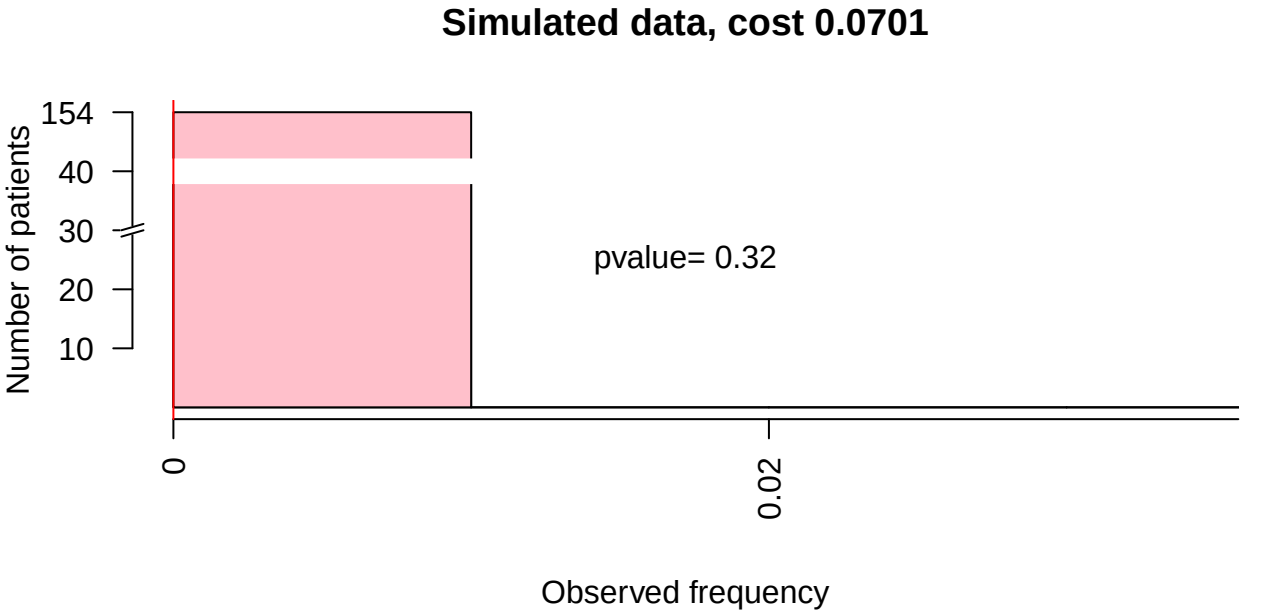

Single−SFS, site 516
Number of patients
131
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
0.24
0.26
0.28
0.3
0.32
0.34
0.36
0.38
0.4
Observed frequency

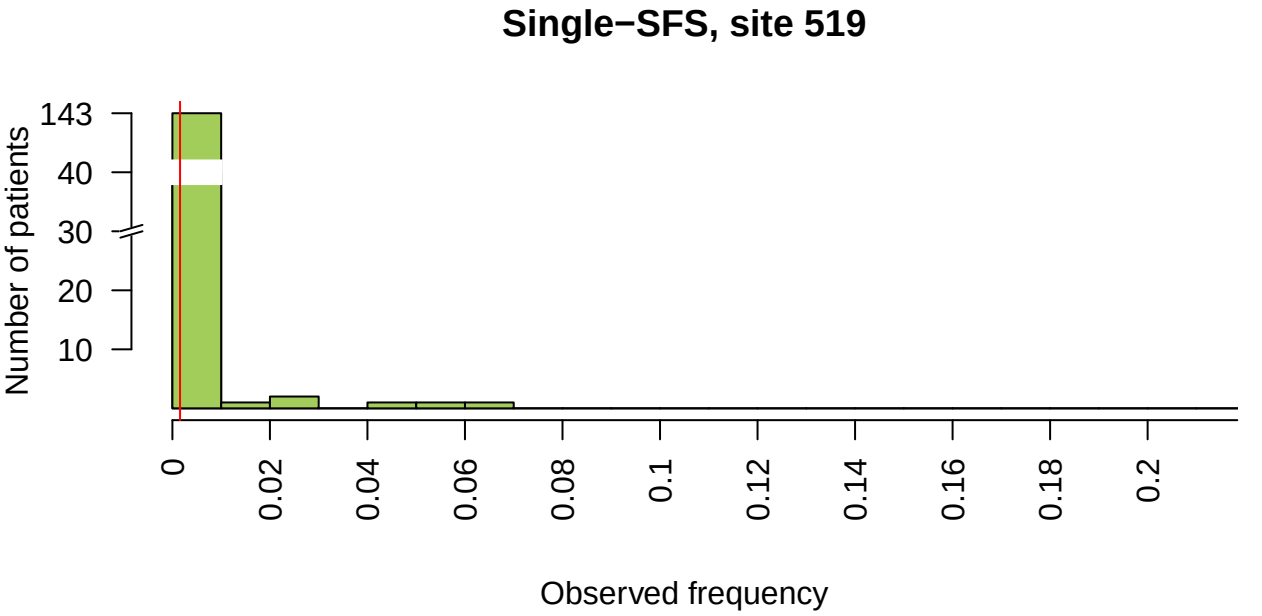

Simulated data, cost 0.0017
Number of patients
132
40
30
20
10
pvalue= 0.857
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
0.24
0.26
0.28
0.3
0.32
0.34
0.36
0.38
0.4
Observed frequency

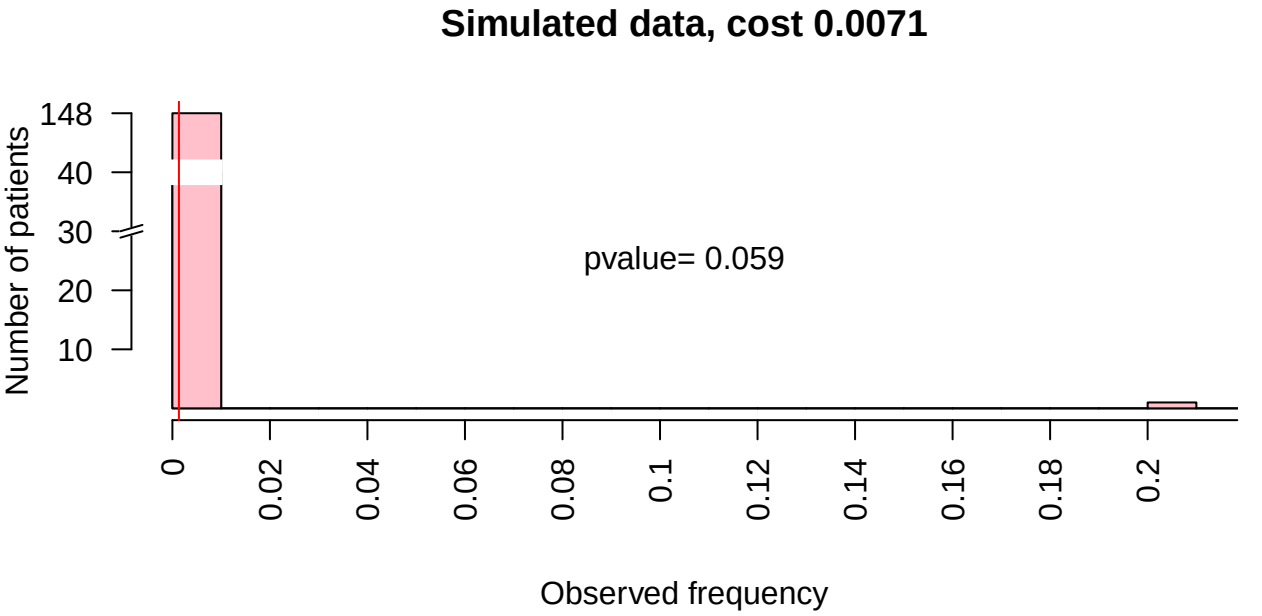

Single−SFS, site 517
Number of patients
133
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
0.24
0.26
0.28
0.3
0.32
0.34
0.36
0.38
0.4
0.42
0.44
0.46
0.48
0.5
0.52
0.54
0.56
0.58
0.6
0.62
0.64
0.66
0.68
0.7
0.72
0.74
0.76
Observed frequency

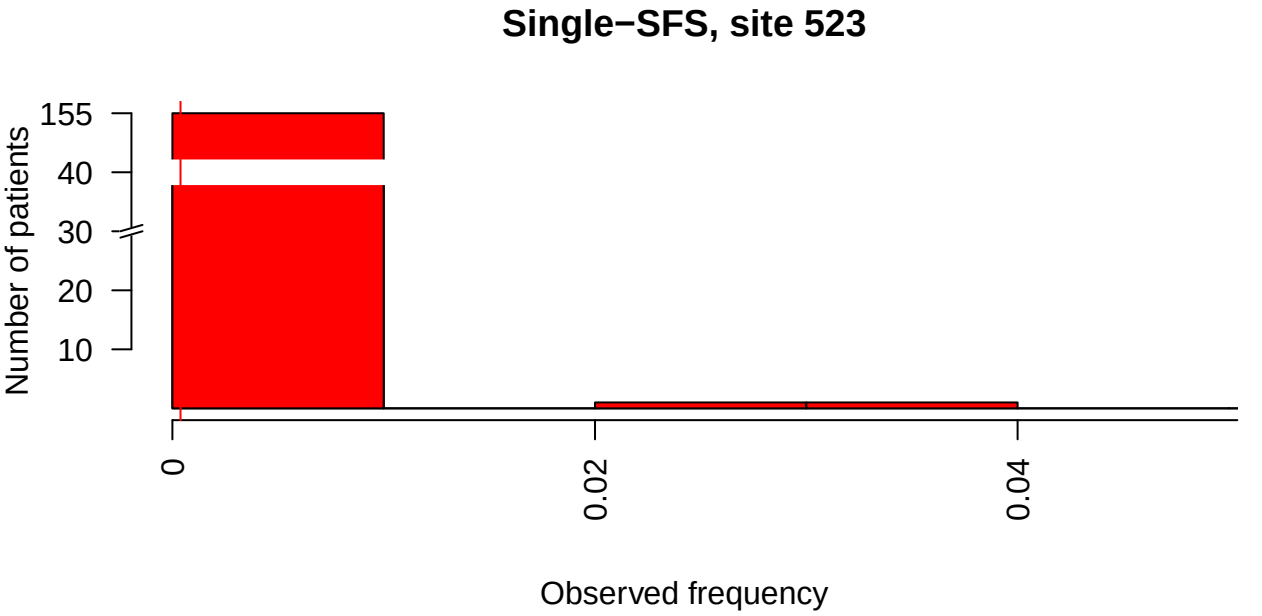

Simulated data, cost 0.0013
Number of patients
134
40
30
20
10
pvalue= 0.874
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
0.24
0.26
0.28
0.3
0.32
0.34
0.36
0.38
0.4
0.42
0.44
0.46
0.48
0.5
0.52
0.54
0.56
0.58
0.6
0.62
0.64
0.66
0.68
0.7
0.72
0.74
0.76
Observed frequency

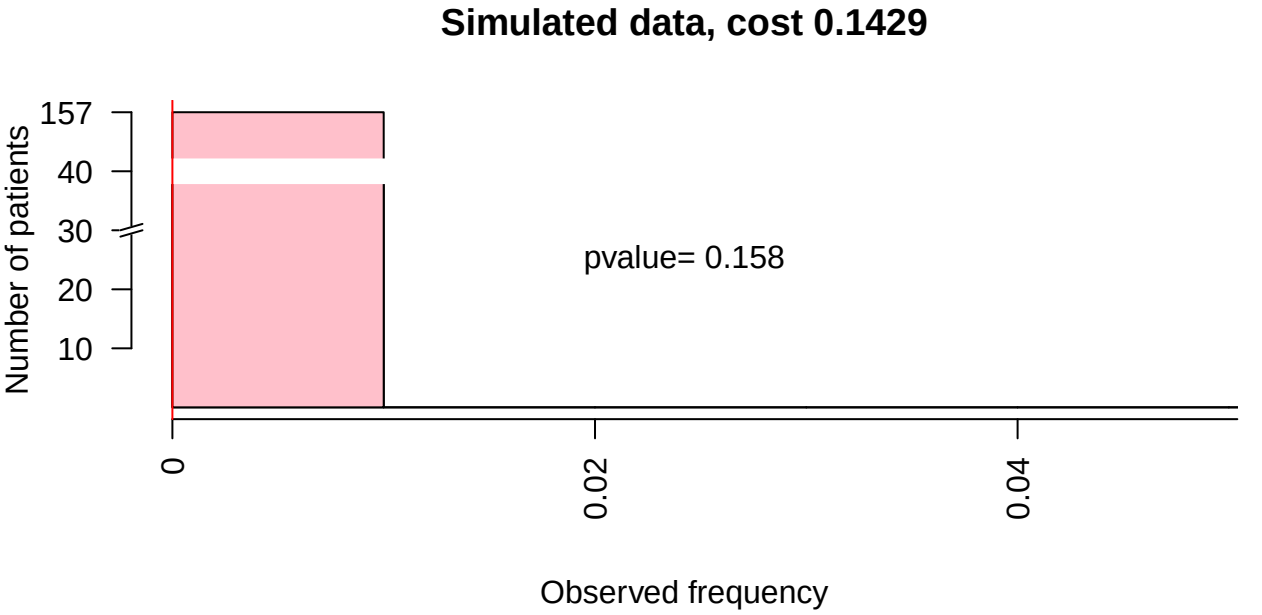

Single−SFS, site 518
Number of patients
153
40
30
20
10
0
0.02
Observed frequency

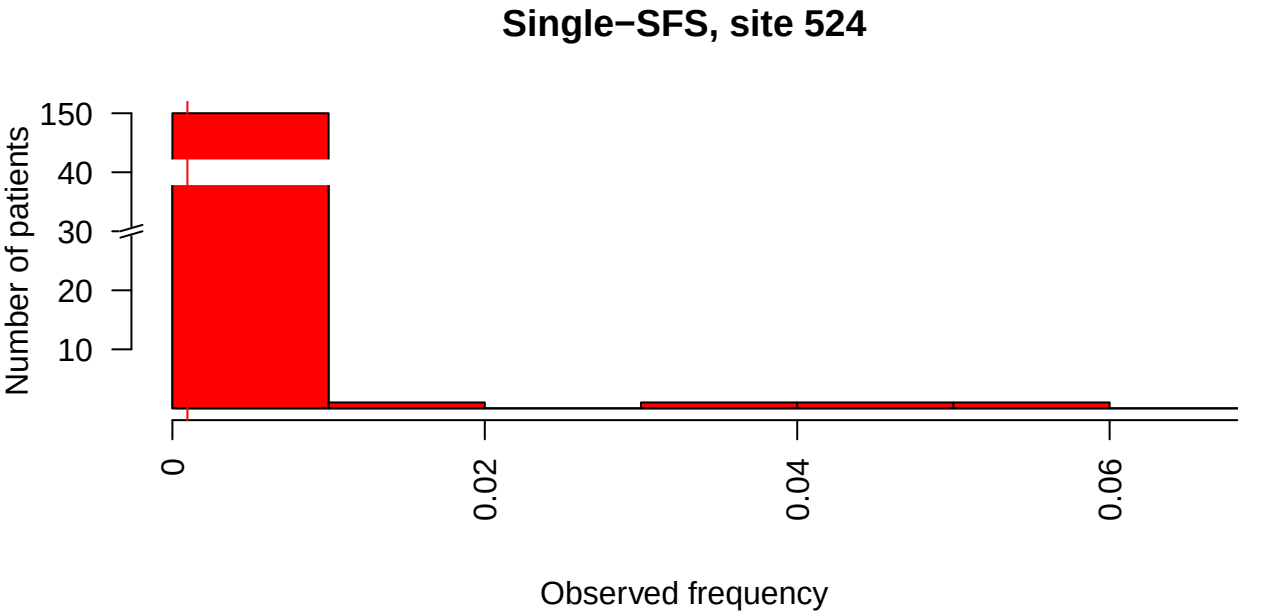

Simulated data, cost 0.0701
Number of patients
154
40
30
20
10
pvalue= 0.32
0
0.02
Observed frequency

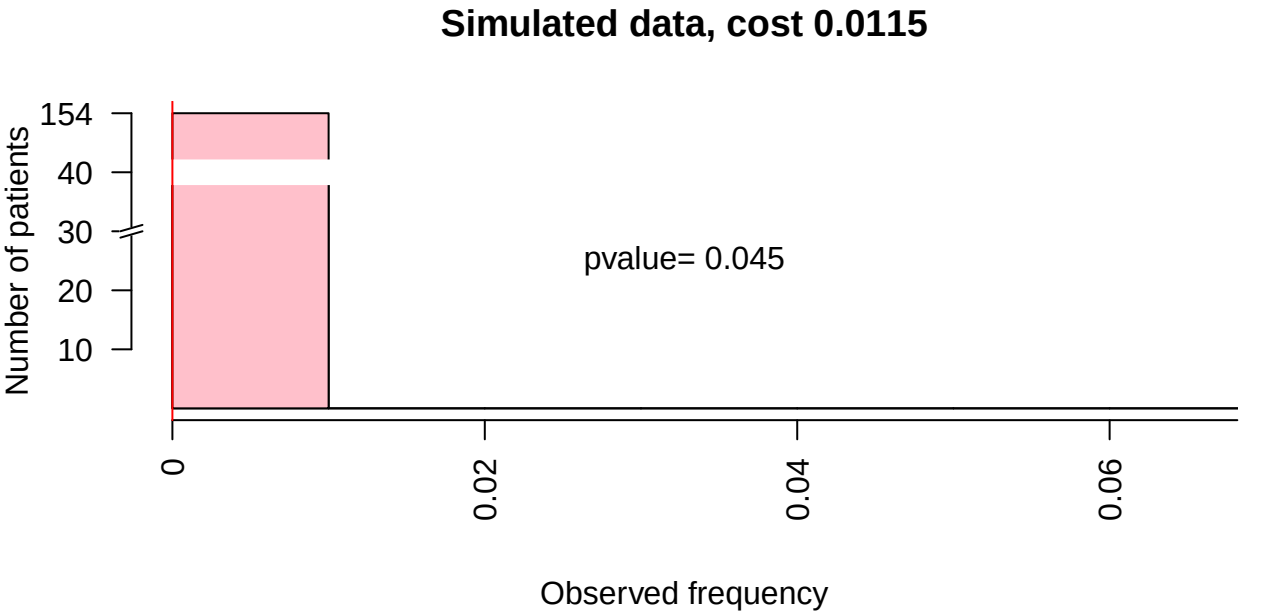

Single−SFS, site 519
Number of patients
143
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
Observed frequency

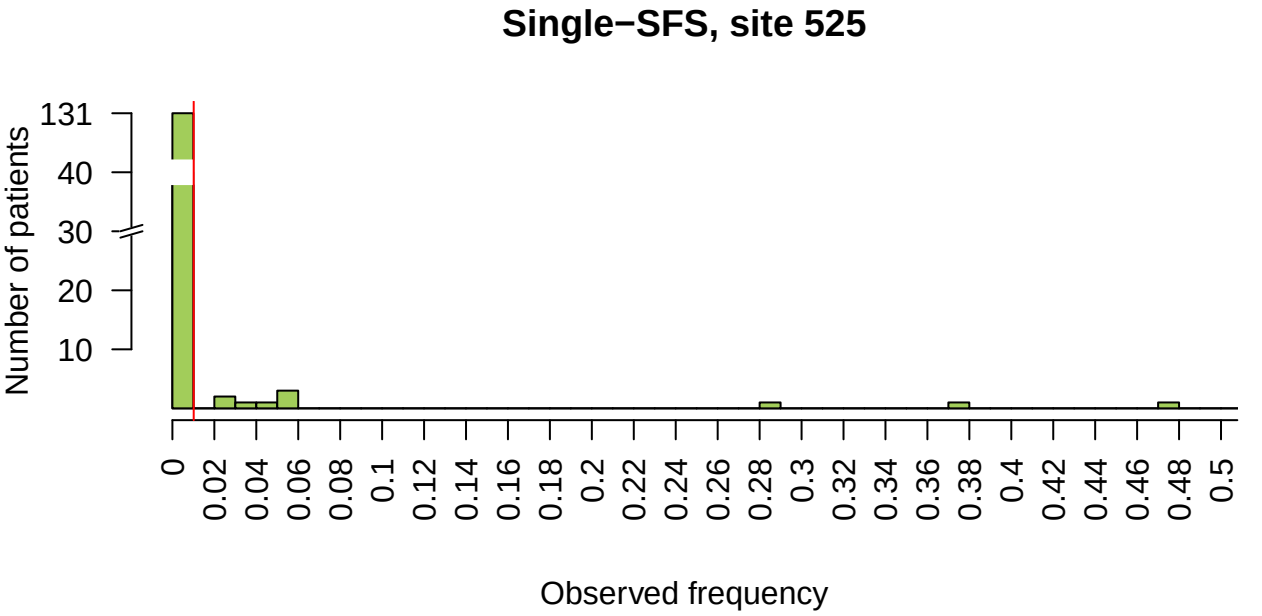

Simulated data, cost 0.0071
Number of patients
148
40
30
20
10
pvalue= 0.059
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
Observed frequency

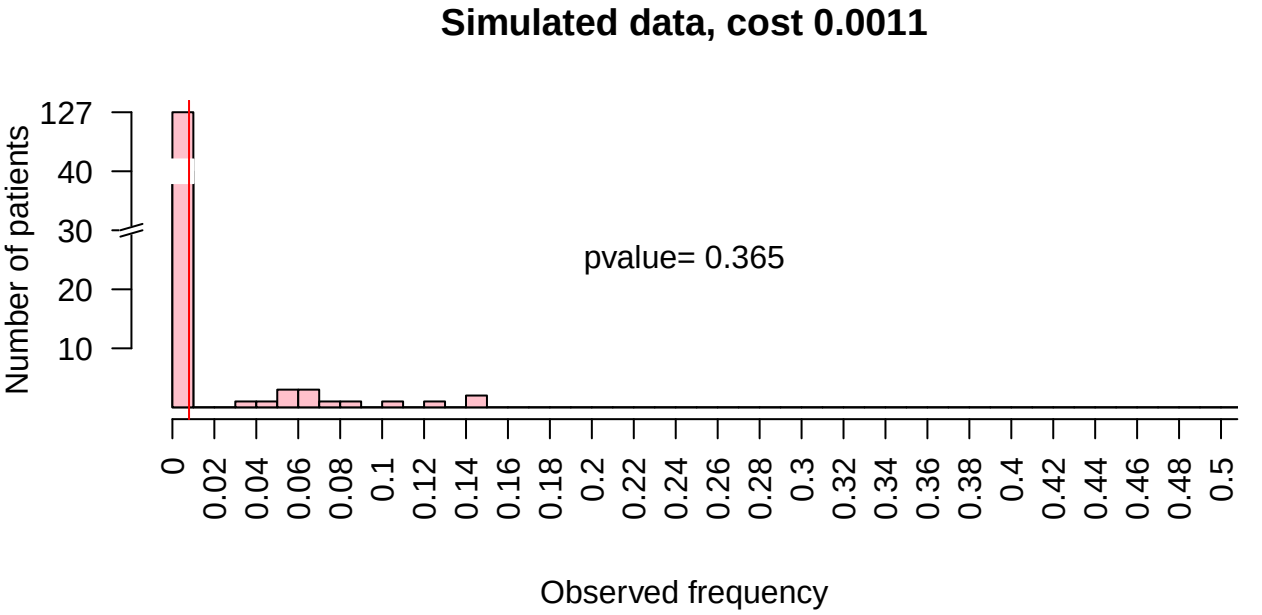

Single−SFS, site 523
Number of patients
155
40
30
20
10
0
0.02
0.04
Observed frequency

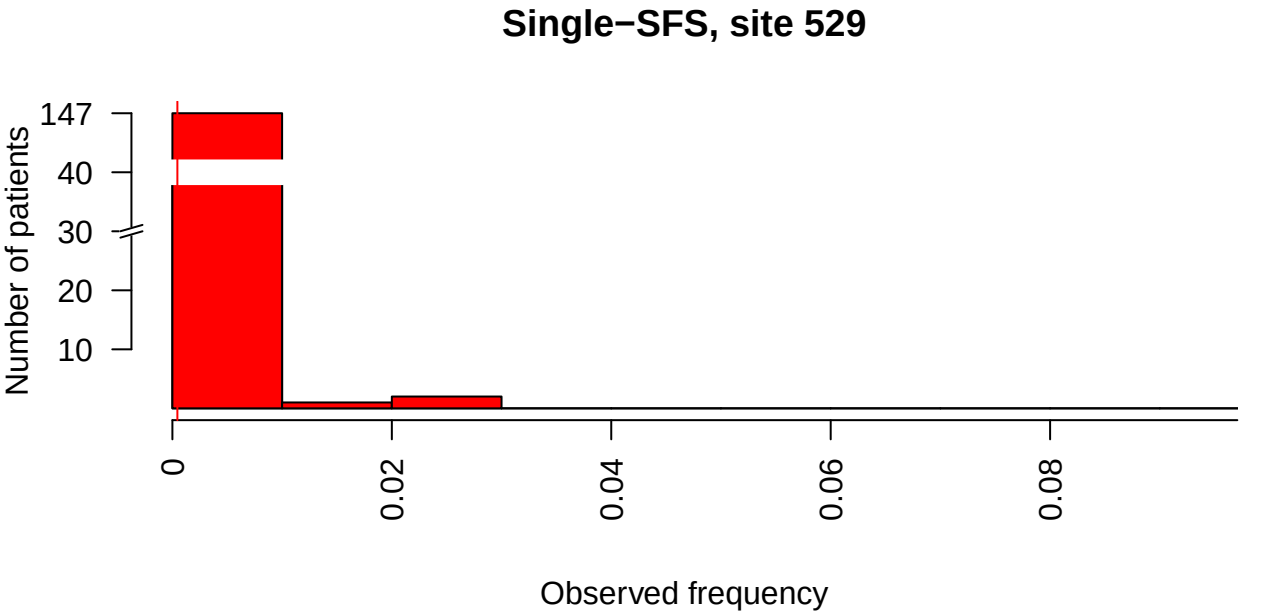

Simulated data, cost 0.1429
Number of patients
157
40
30
20
10
pvalue= 0.158
0
0.02
0.04
Observed frequency

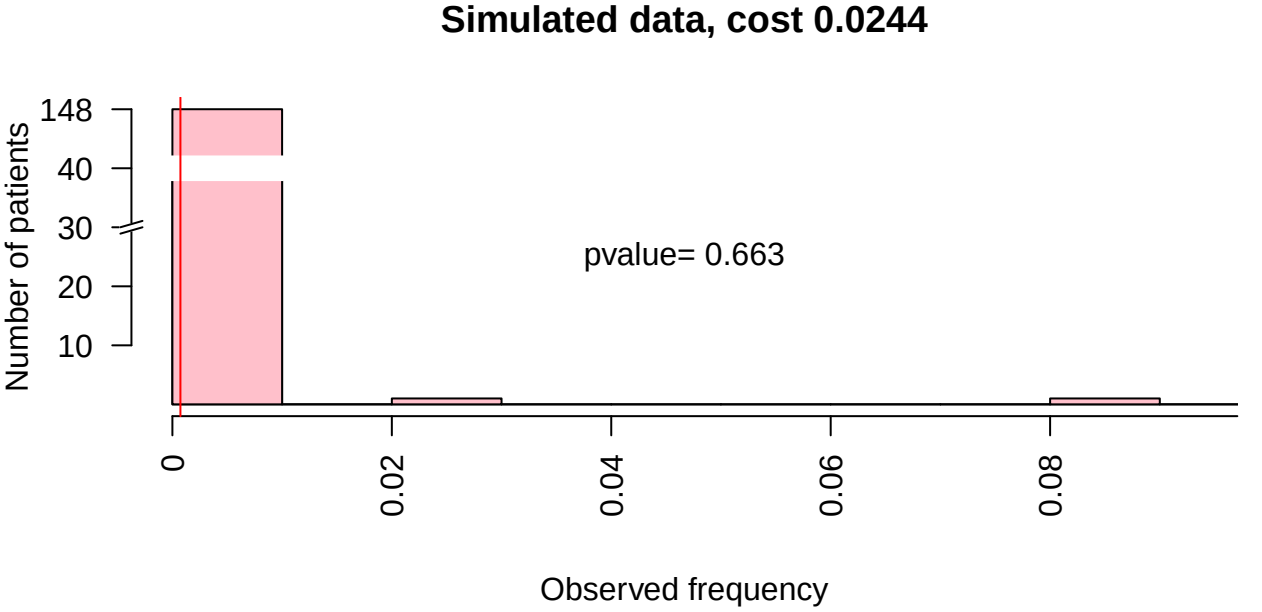

Single−SFS, site 524
Number of patients
150
40
30
20
10
0
0.02
0.04
0.06
Observed frequency

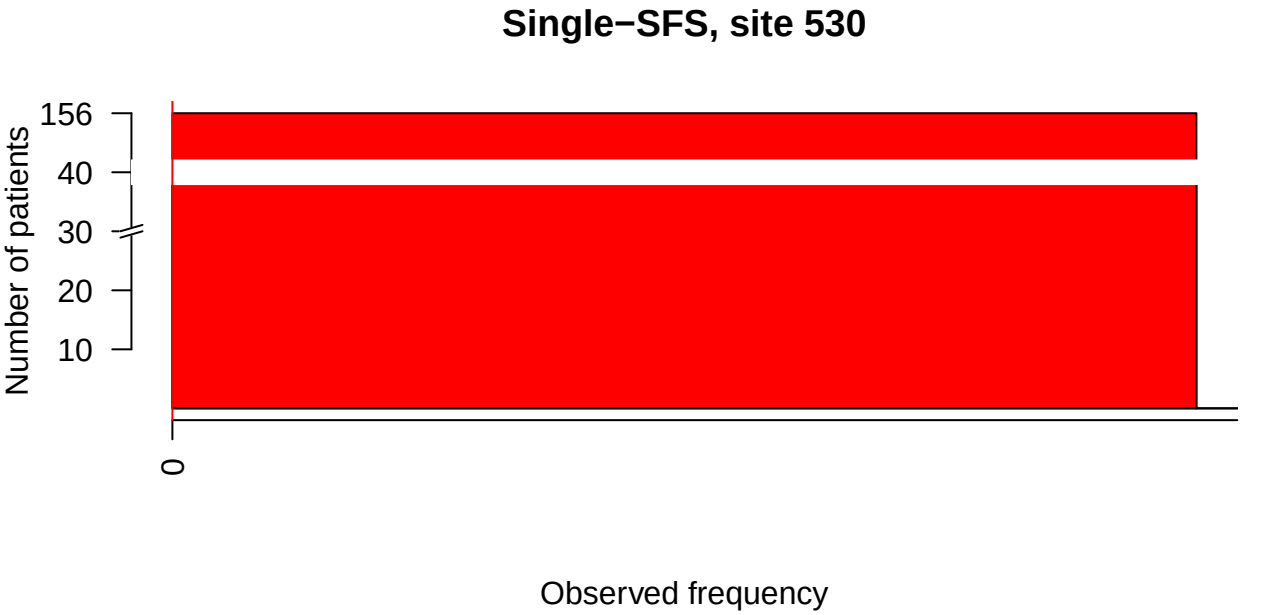

Simulated data, cost 0.0115
Number of patients
154
40
30
20
10
pvalue= 0.045
0
0.02
0.04
0.06
Observed frequency

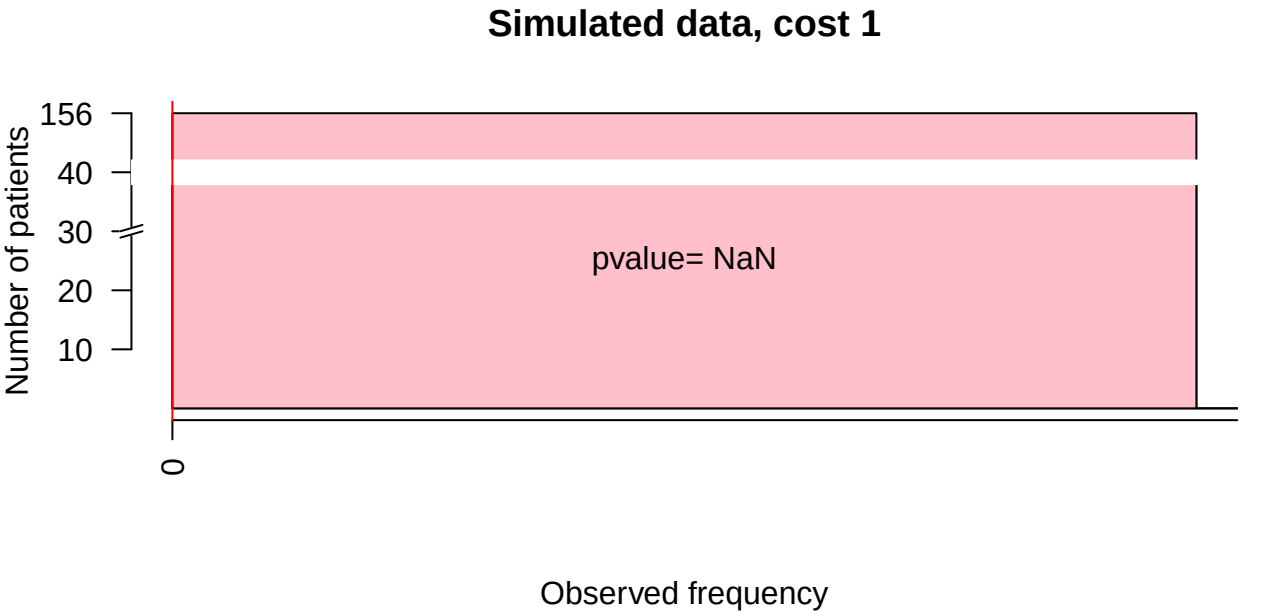

Single−SFS, site 525
Number of patients
131
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
0.24
0.26
0.28
0.3
0.32
0.34
0.36
0.38
0.4
0.42
0.44
0.46
0.48
0.5
Observed frequency

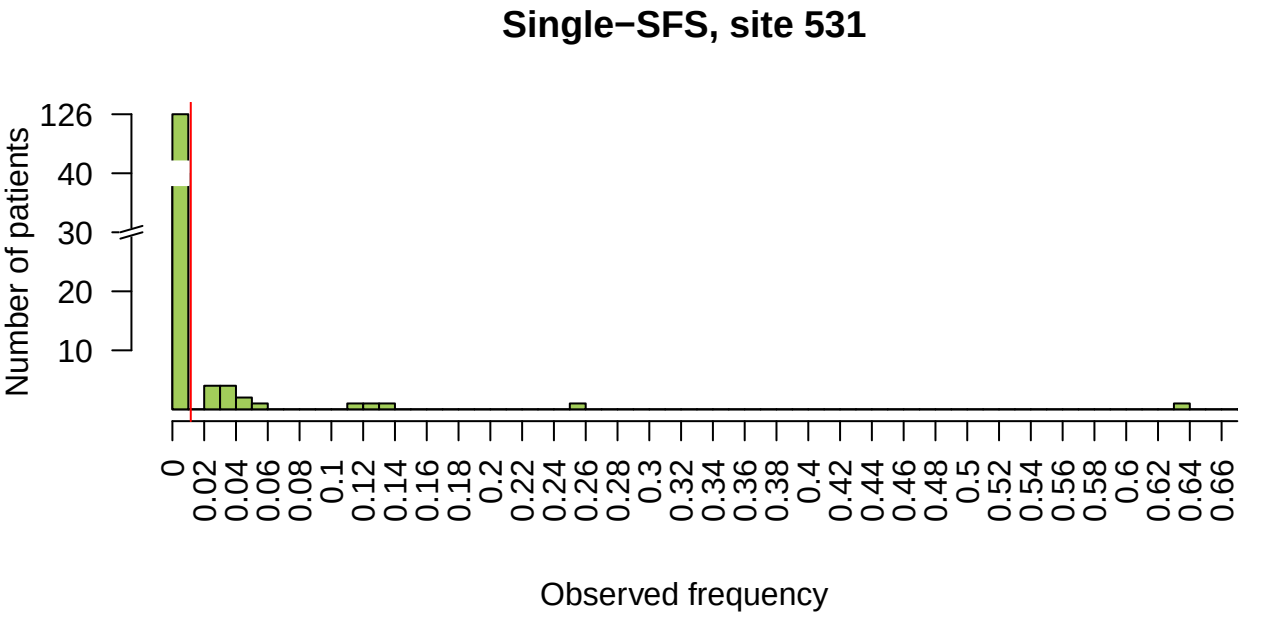

Simulated data, cost 0.0011
Number of patients
127
40
30
20
10
pvalue= 0.365
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
0.24
0.26
0.28
0.3
0.32
0.34
0.36
0.38
0.4
0.42
0.44
0.46
0.48
0.5
Observed frequency

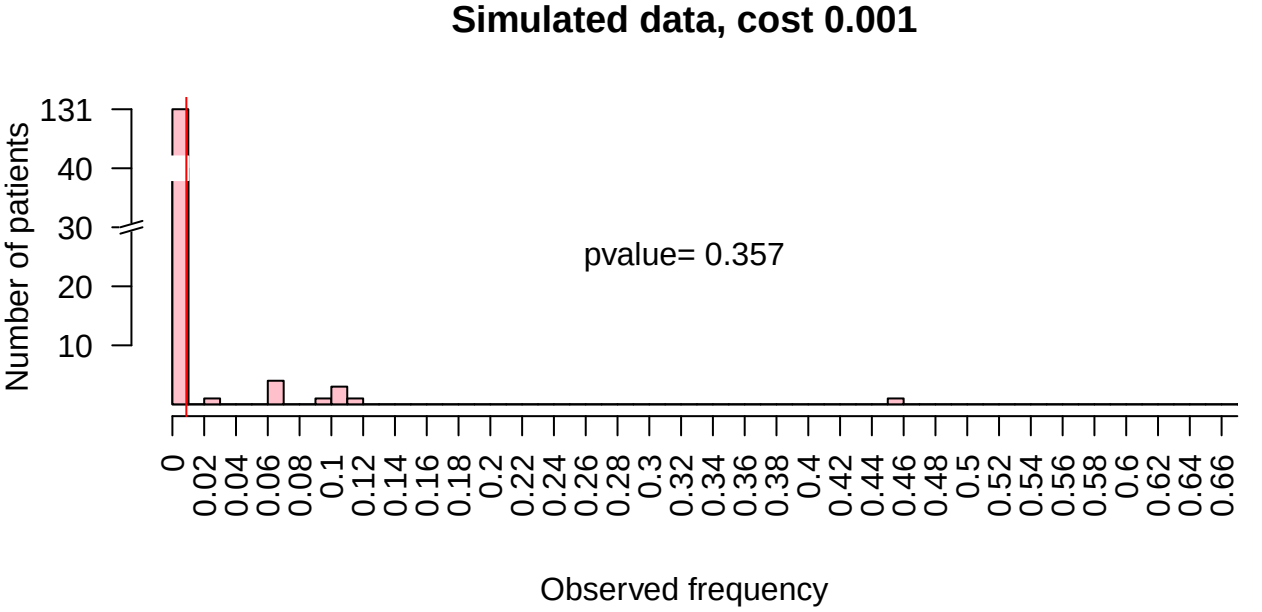

Single−SFS, site 529
Number of patients
147
40
30
20
10
0
0.02
0.04
0.06
0.08
Observed frequency

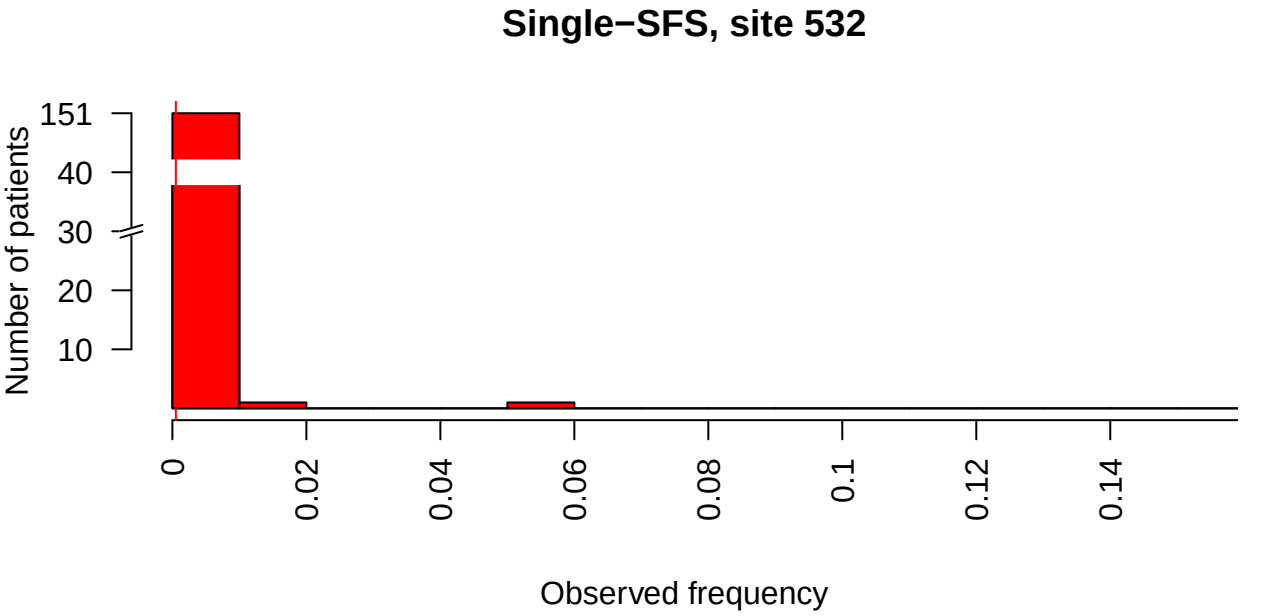

Simulated data, cost 0.0244
Number of patients
148
40
30
20
10
pvalue= 0.663
0
0.02
0.04
0.06
0.08
Observed frequency

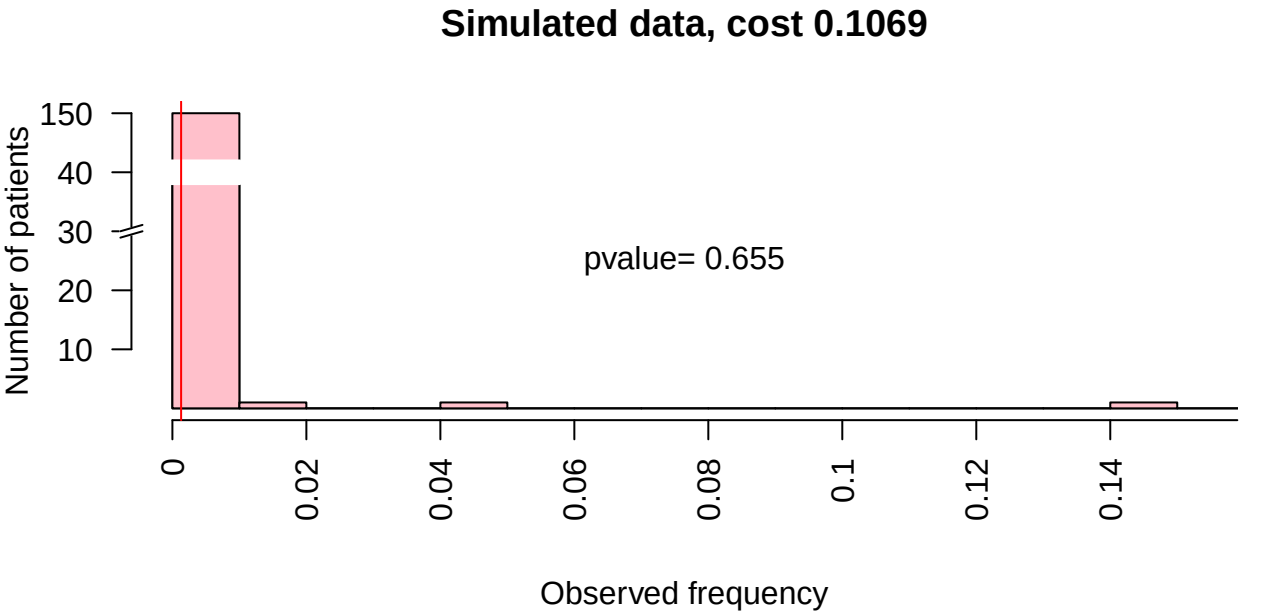

Single−SFS, site 530
Number of patients
156
40
30
20
10
0
Observed frequency

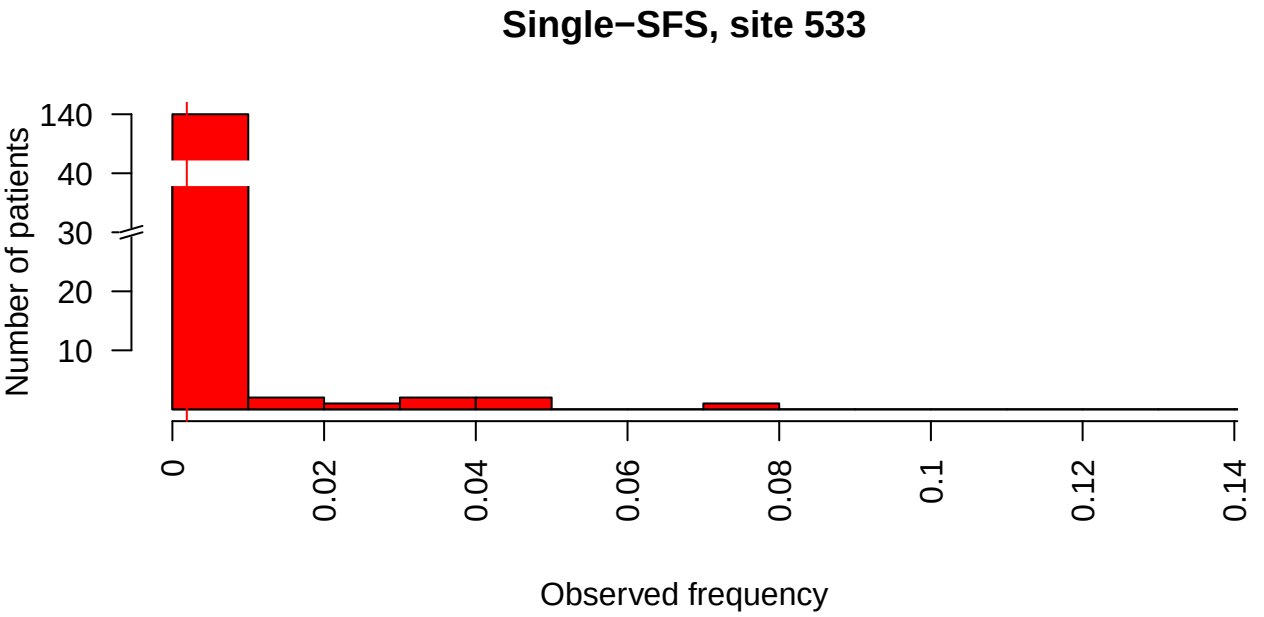

Simulated data, cost 1
Number of patients
156
40
30
20
10
0
pvalue= NaN
Observed frequency

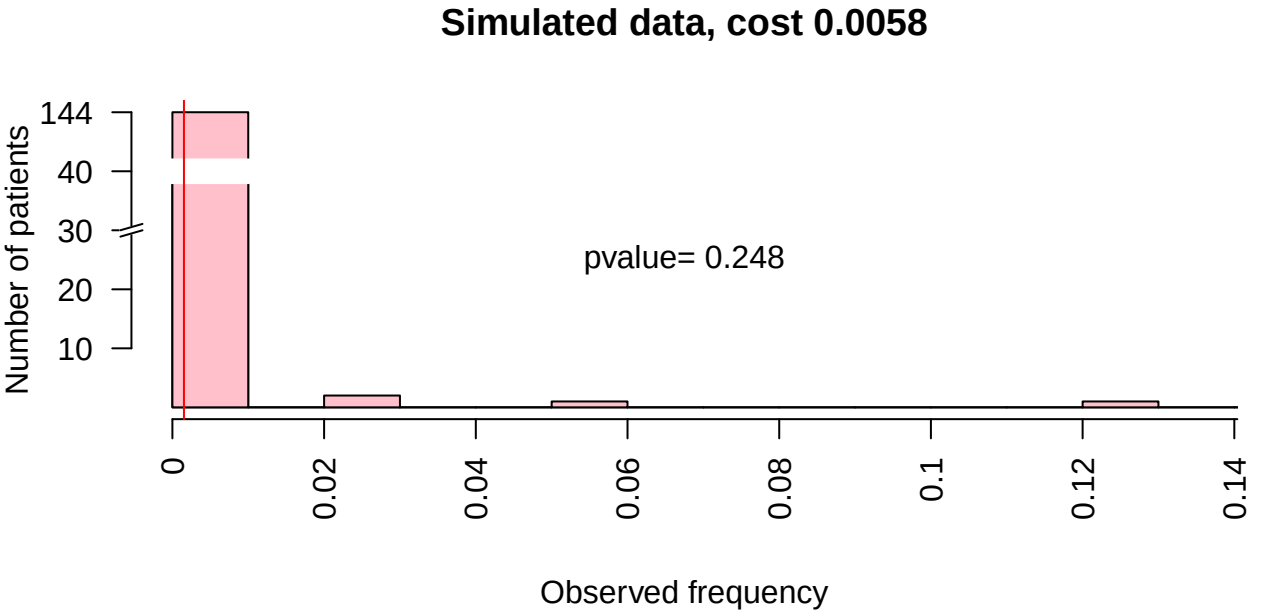

Single−SFS, site 531
Number of patients
126
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
0.24
0.26
0.28
0.3
0.32
0.34
0.36
0.38
0.4
0.42
0.44
0.46
0.48
0.5
0.52
0.54
0.56
0.58
0.6
0.62
0.64
0.66
Observed frequency

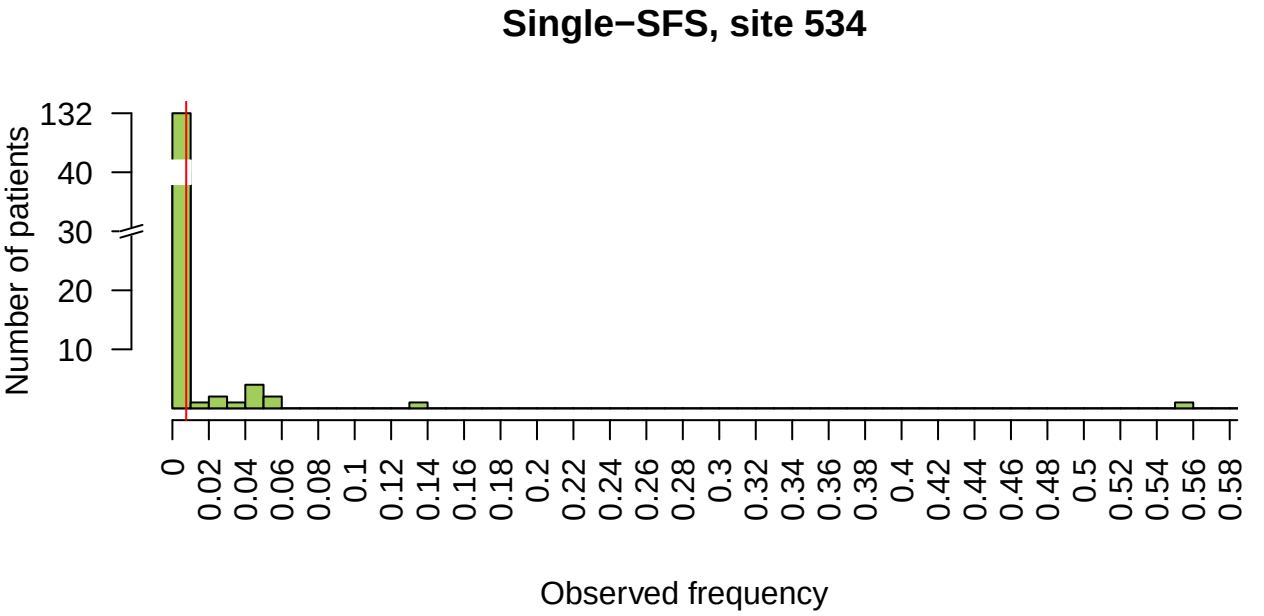

Simulated data, cost 0.001
Number of patients
131
40
30
20
10
pvalue= 0.357
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
0.24
0.26
0.28
0.3
0.32
0.34
0.36
0.38
0.4
0.42
0.44
0.46
0.48
0.5
0.52
0.54
0.56
0.58
0.6
0.62
0.64
0.66
Observed frequency

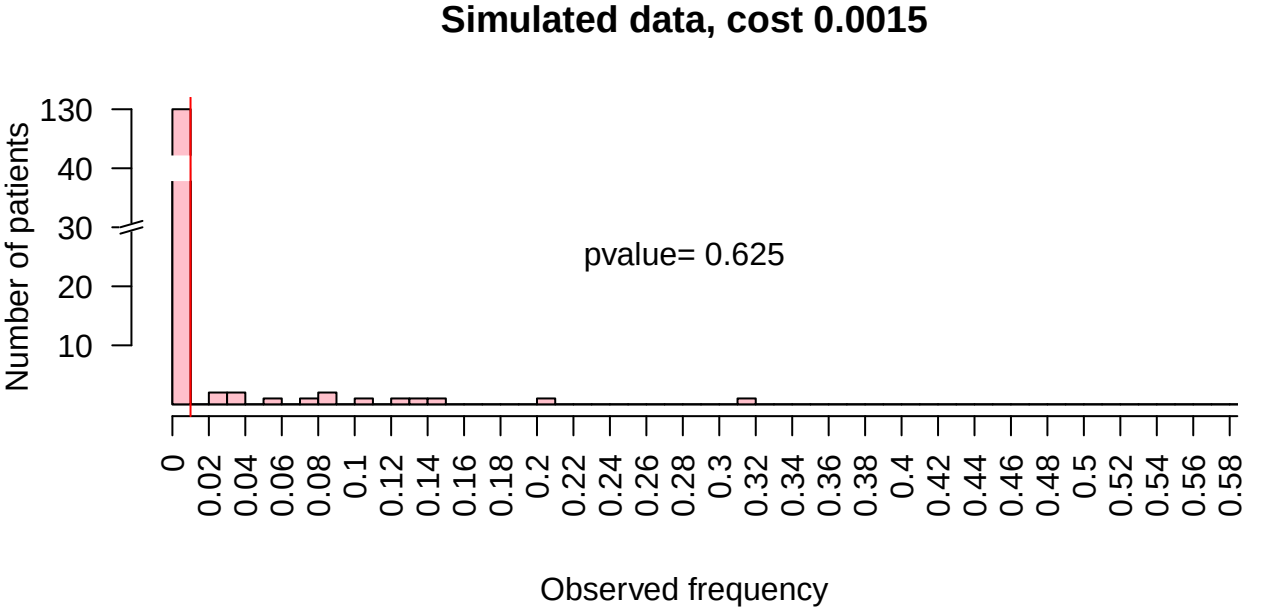

Single−SFS, site 532
Number of patients
151
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
Observed frequency

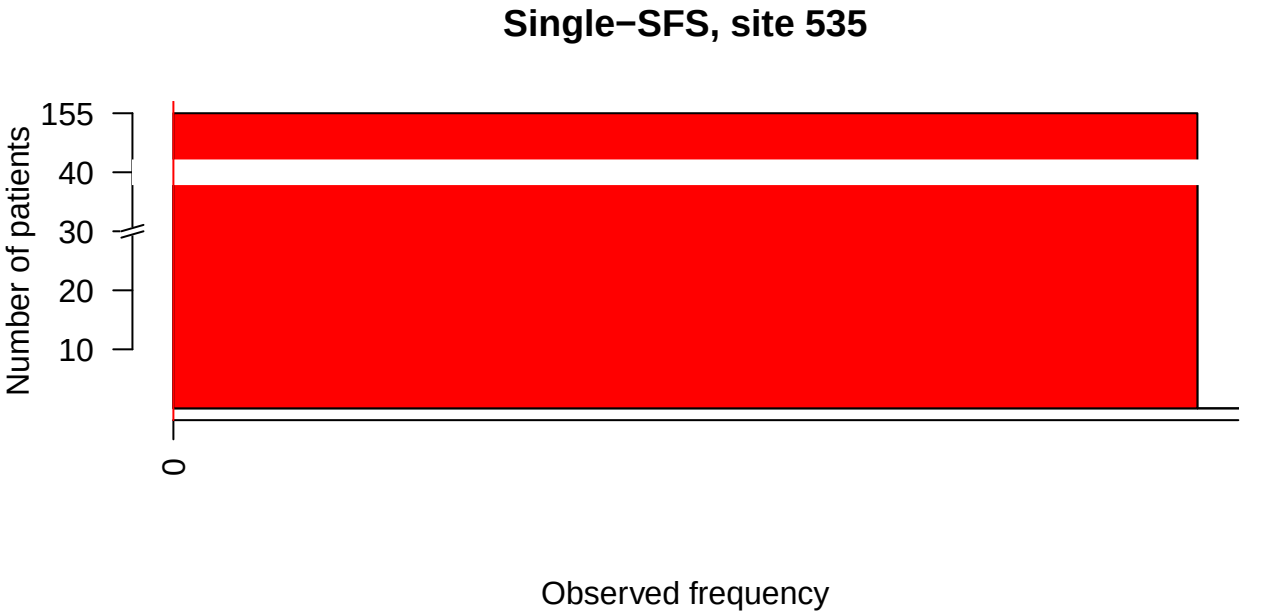

Simulated data, cost 0.1069
Number of patients
150
40
30
20
10
pvalue= 0.655
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
Observed frequency

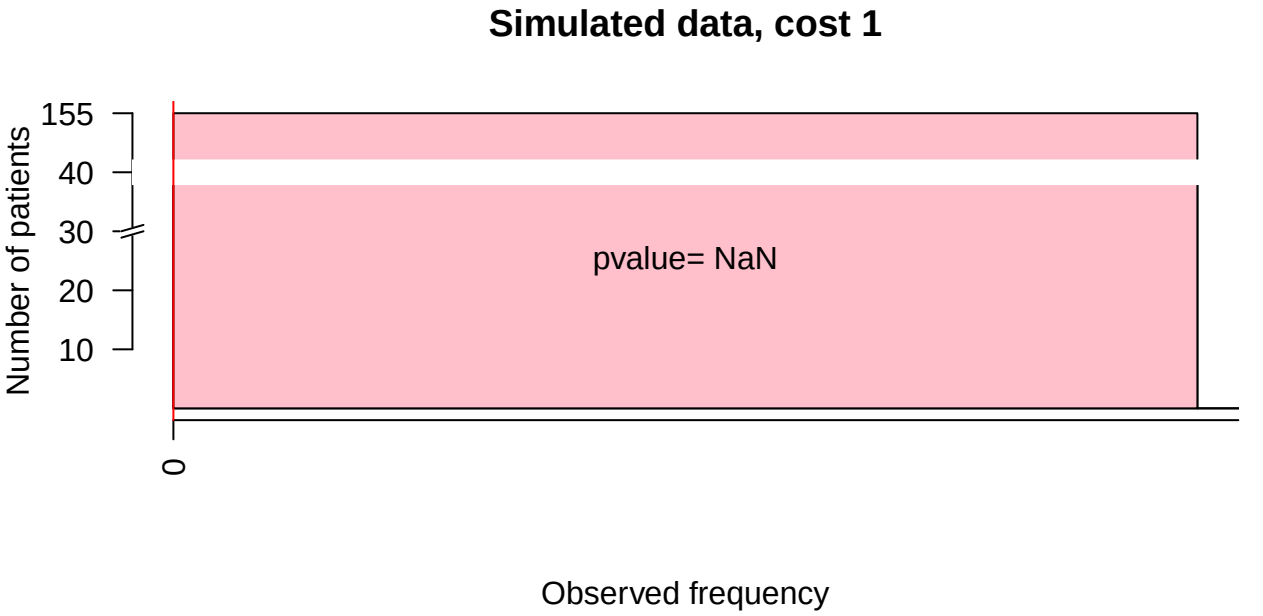

Single−SFS, site 533
Number of patients
140
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
Observed frequency

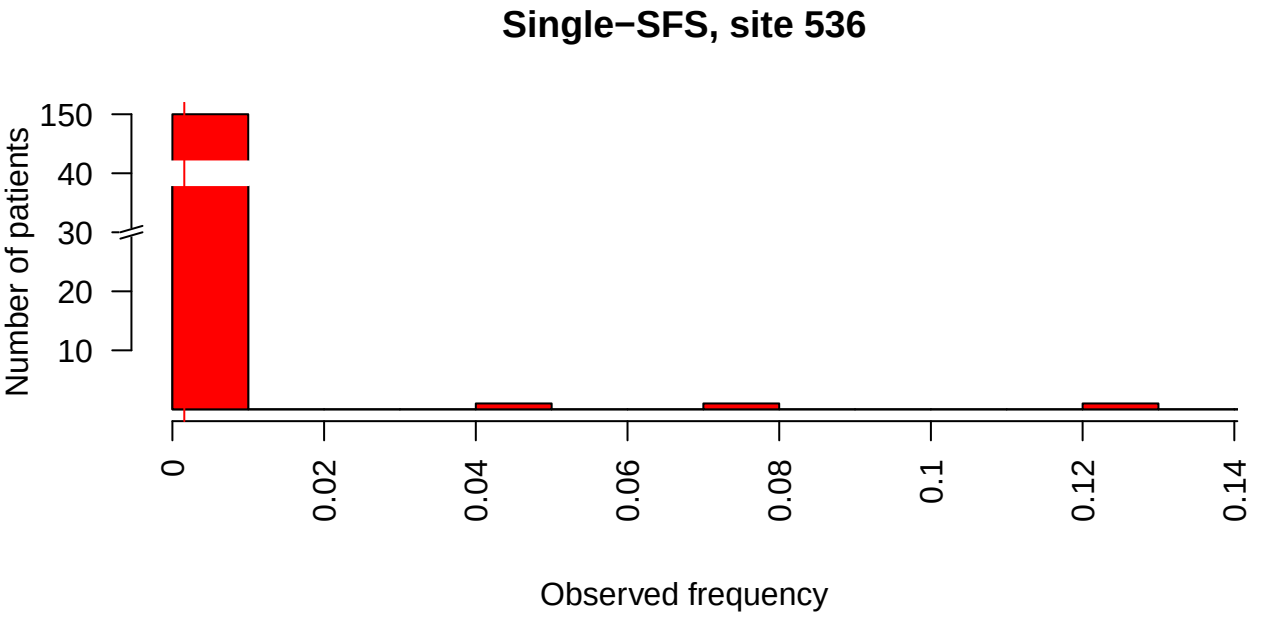

Simulated data, cost 0.0058
Number of patients
144
40
30
20
10
pvalue= 0.248
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
Observed frequency

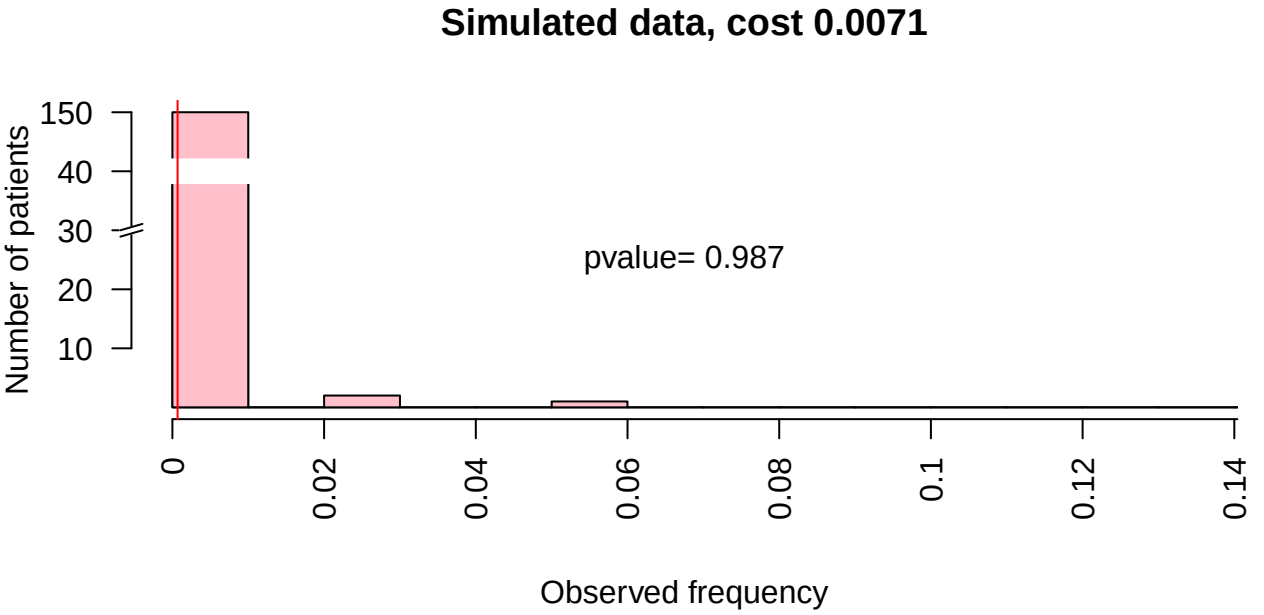

Single−SFS, site 534
Number of patients
132
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
0.24
0.26
0.28
0.3
0.32
0.34
0.36
0.38
0.4
0.42
0.44
0.46
0.48
0.5
0.52
0.54
0.56
0.58
Observed frequency

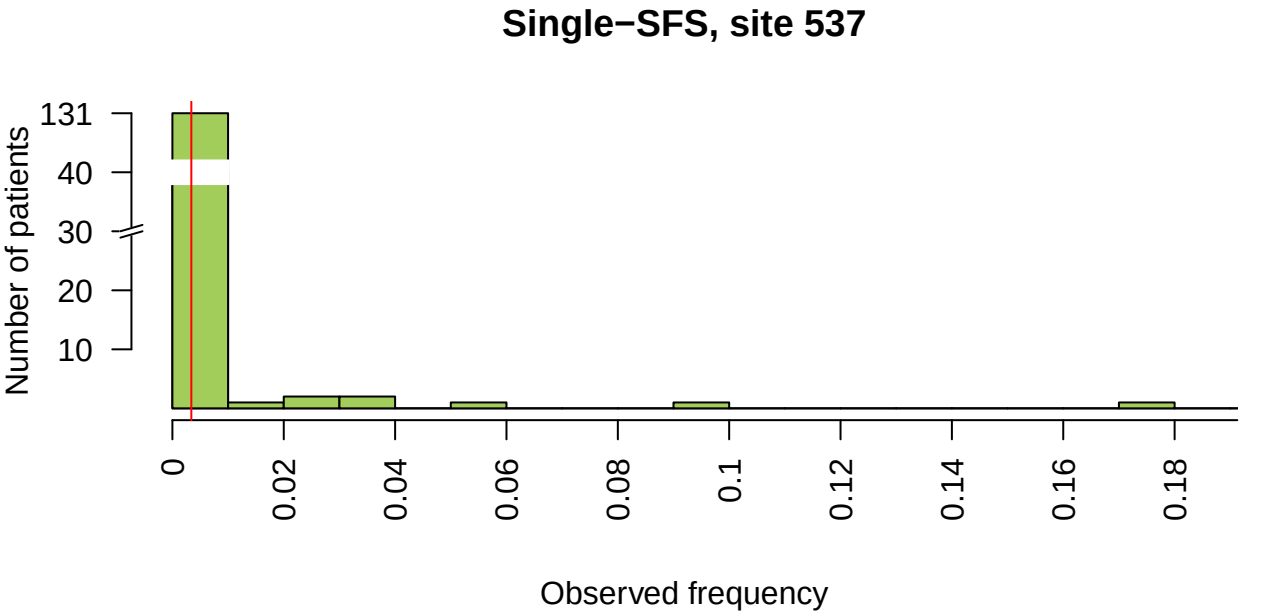

Simulated data, cost 0.0015
Number of patients
130
40
30
20
10
pvalue= 0.625
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
0.24
0.26
0.28
0.3
0.32
0.34
0.36
0.38
0.4
0.42
0.44
0.46
0.48
0.5
0.52
0.54
0.56
0.58
Observed frequency

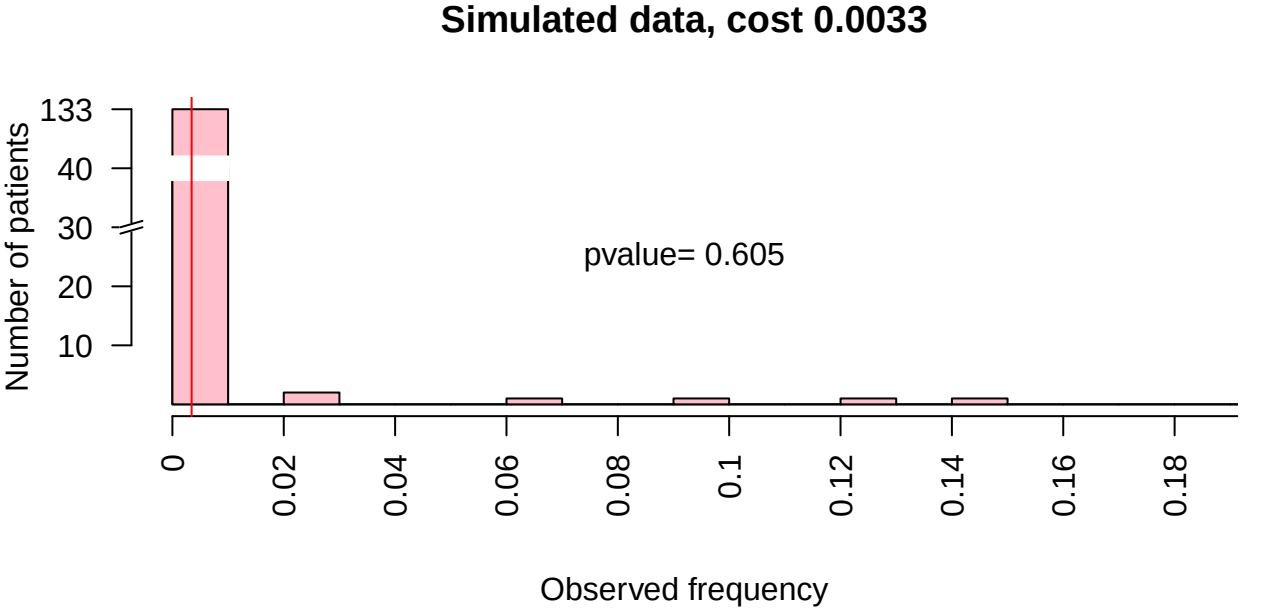

Single−SFS, site 535
Number of patients
155
40
30
20
10
0
Observed frequency

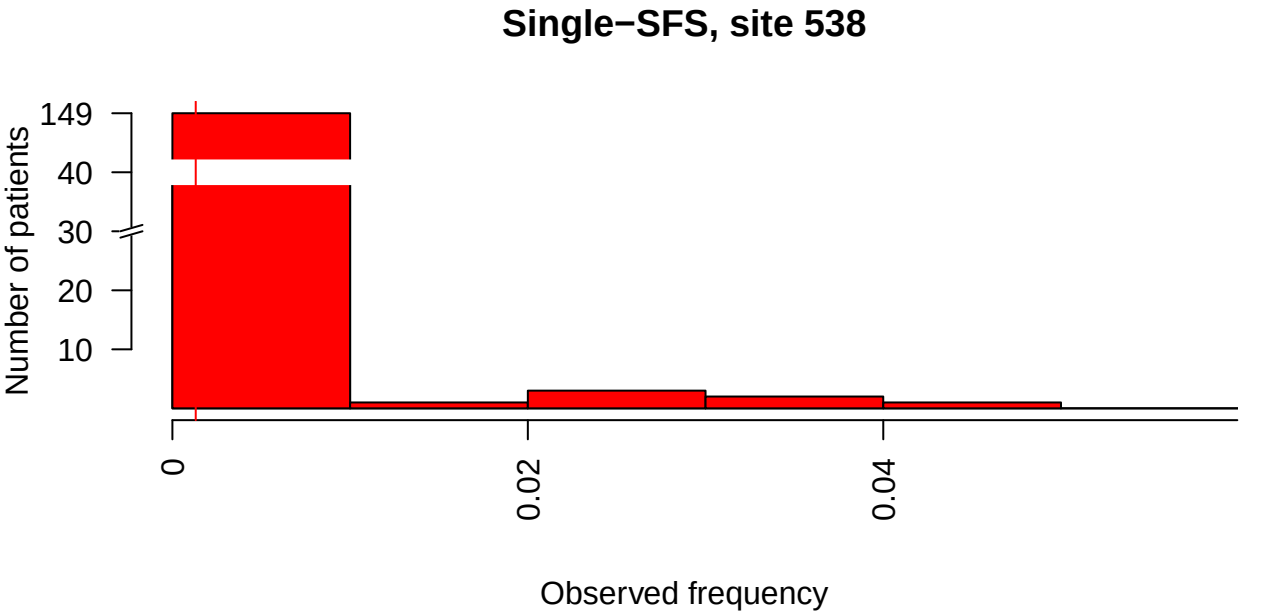

Simulated data, cost 1
Number of patients
155
40
30
20
10
0
pvalue= NaN
Observed frequency

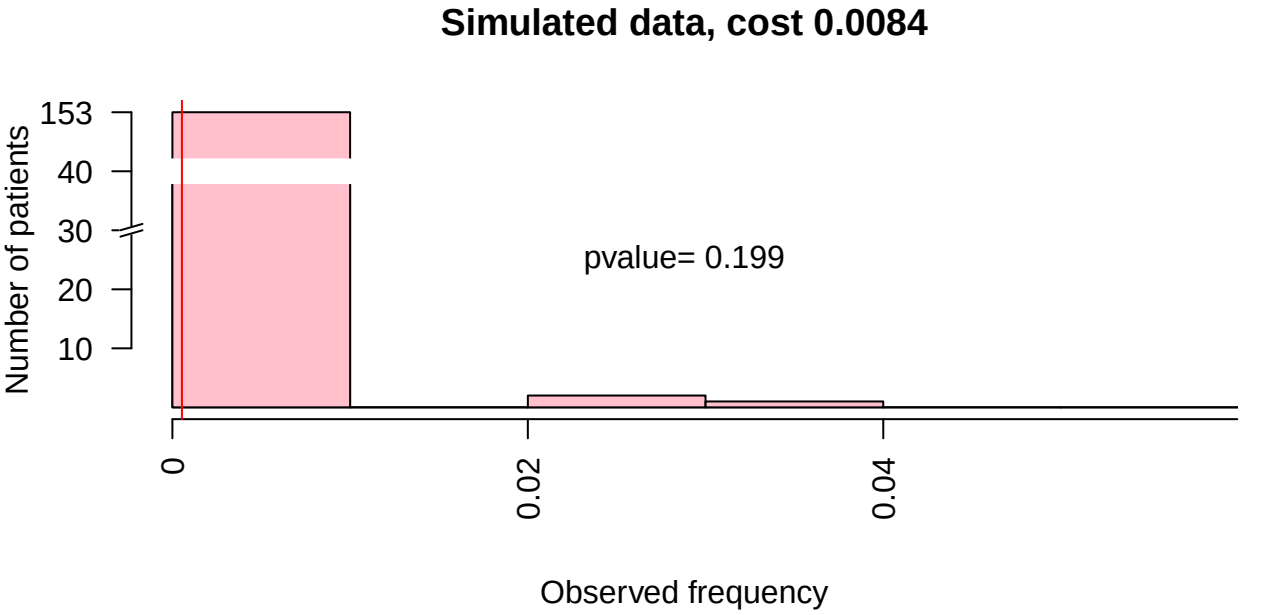

Single−SFS, site 536
Number of patients
150
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
Observed frequency

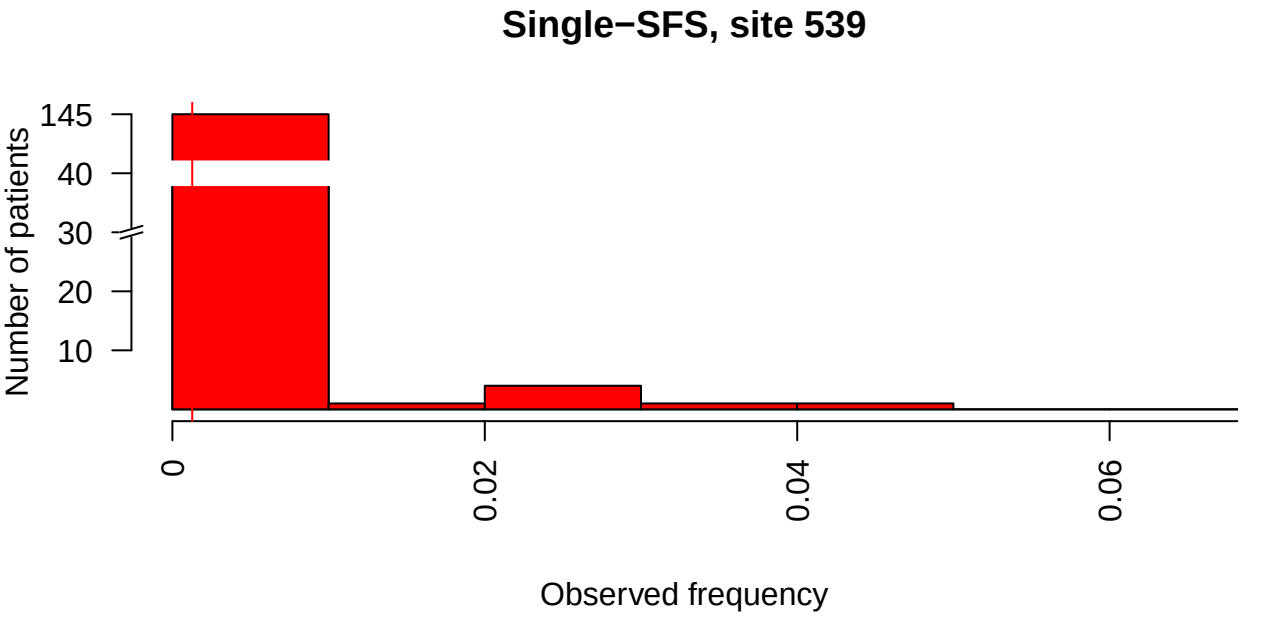

Simulated data, cost 0.0071
Number of patients
150
40
30
20
10
pvalue= 0.987
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
Observed frequency

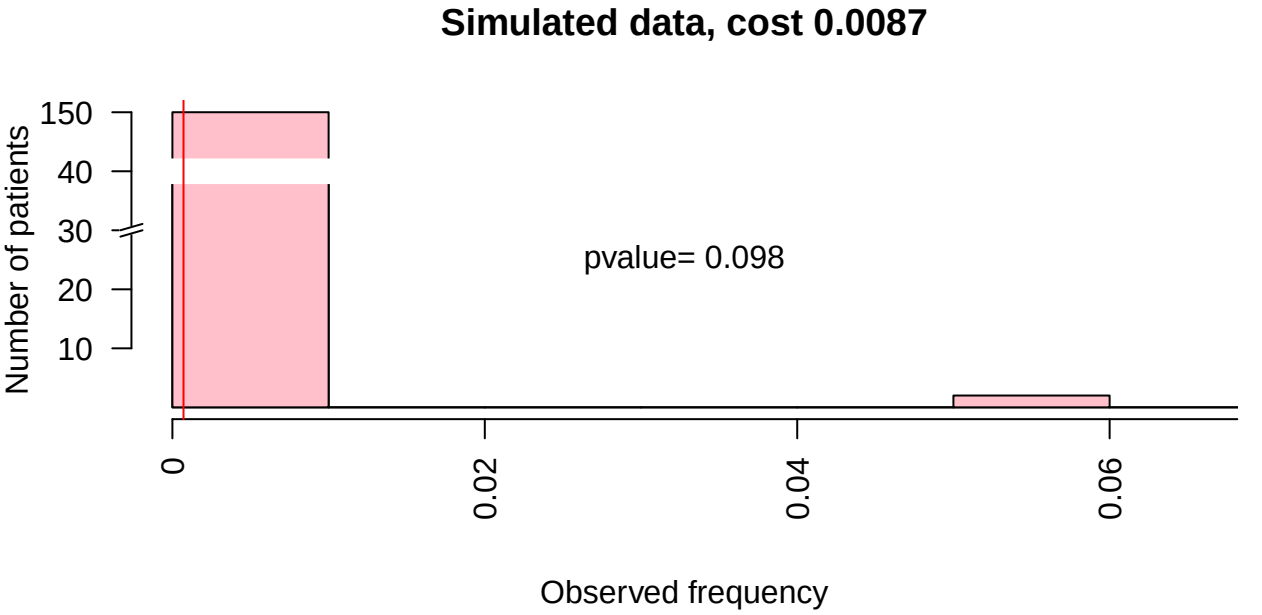

Single−SFS, site 537
Number of patients
131
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
Observed frequency

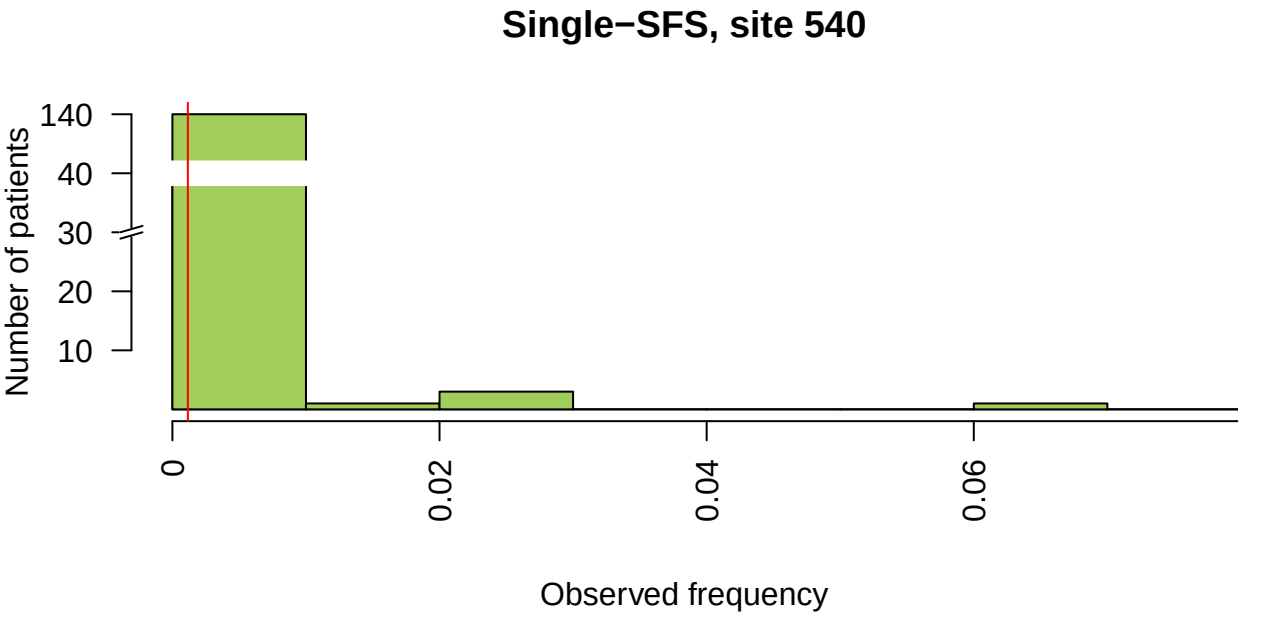

Simulated data, cost 0.0033
Number of patients
133
40
30
20
10
pvalue= 0.605
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
Observed frequency

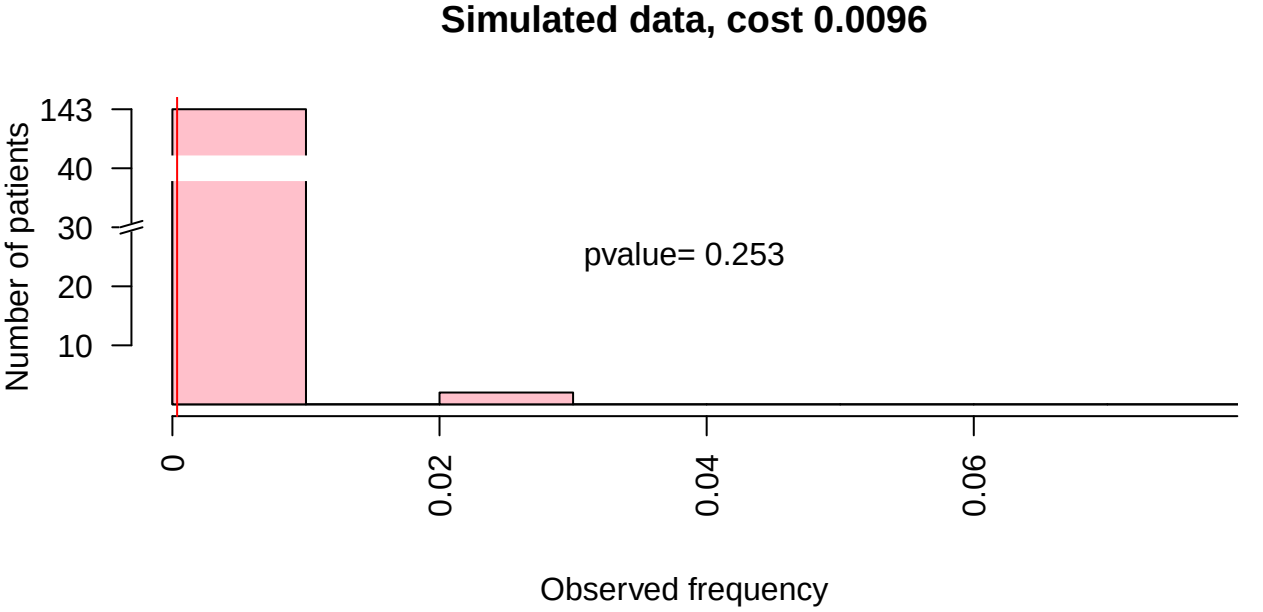

Single−SFS, site 538
Number of patients
149
40
30
20
10
0
0.02
0.04
Observed frequency

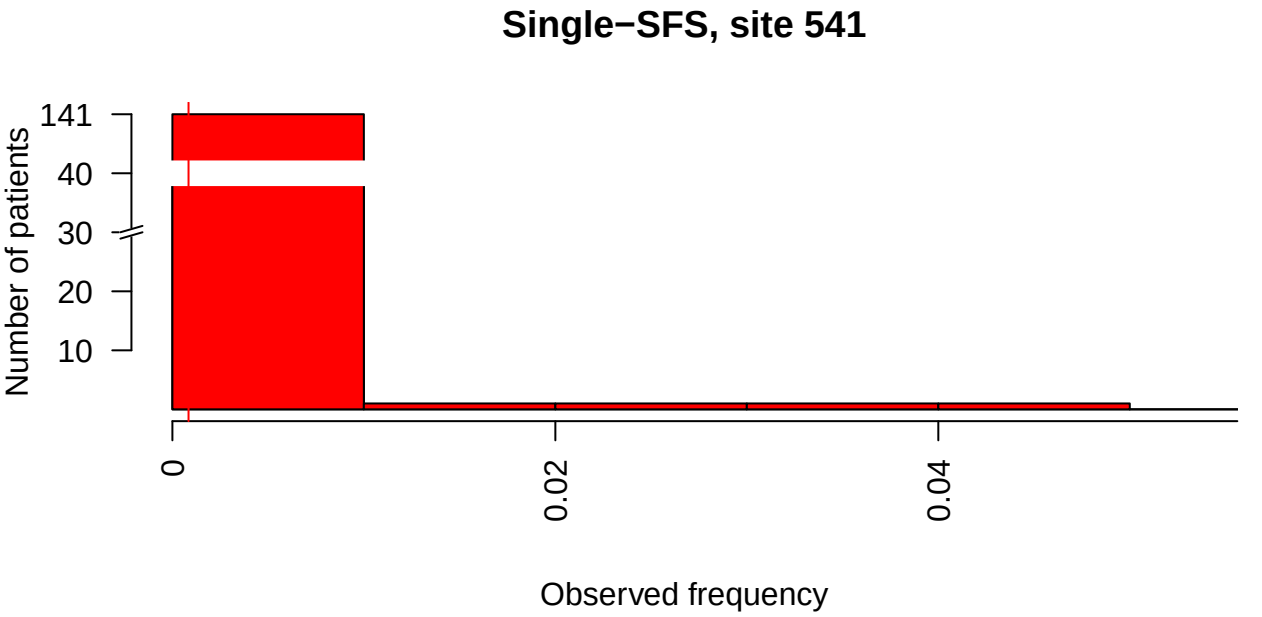

Simulated data, cost 0.0084
Number of patients
153
40
30
20
10
pvalue= 0.199
0
0.02
0.04
Observed frequency

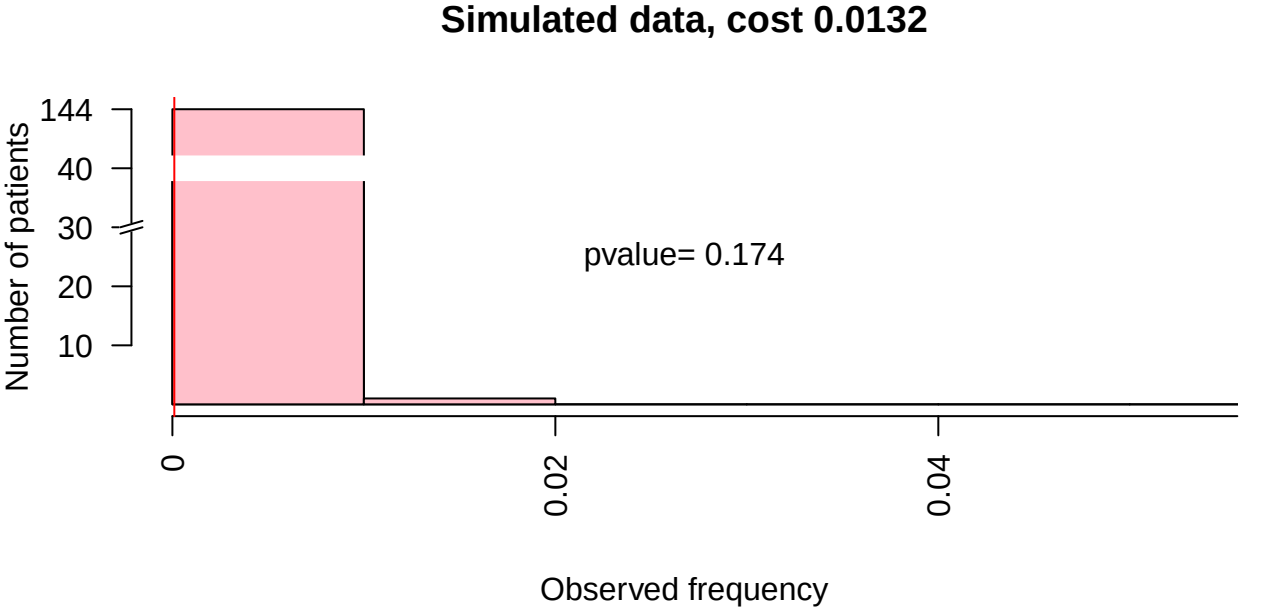

Single−SFS, site 539
Number of patients
145
40
30
20
10
0
0.02
0.04
0.06
Observed frequency

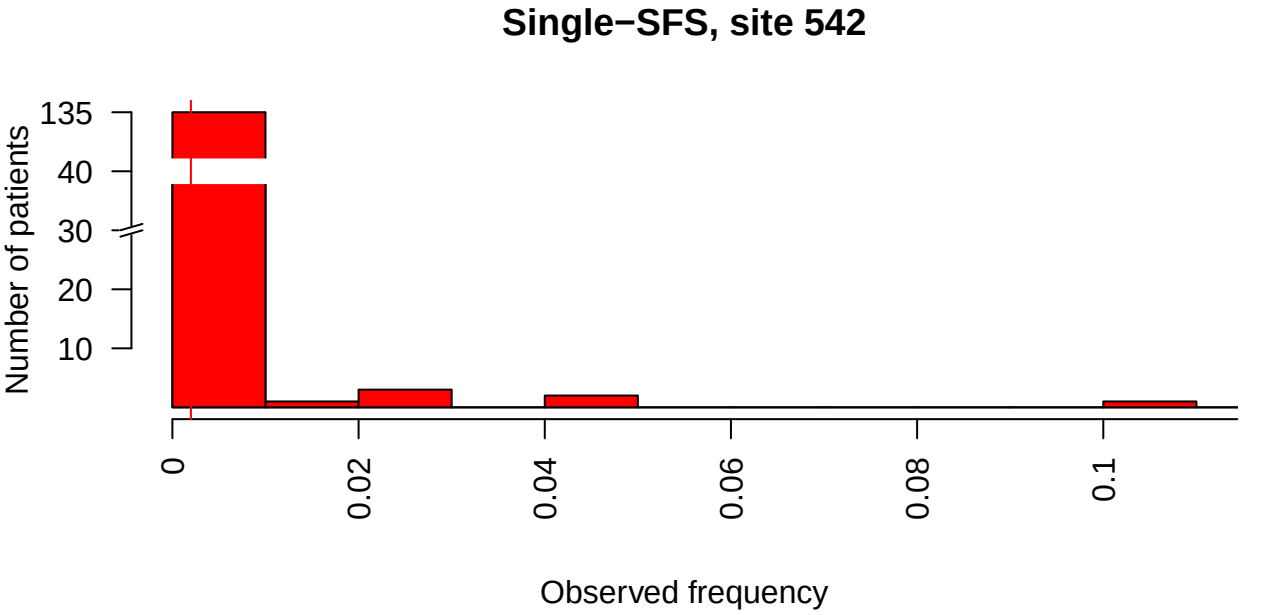

Simulated data, cost 0.0087
Number of patients
150
40
30
20
10
pvalue= 0.098
0
0.02
0.04
0.06
Observed frequency

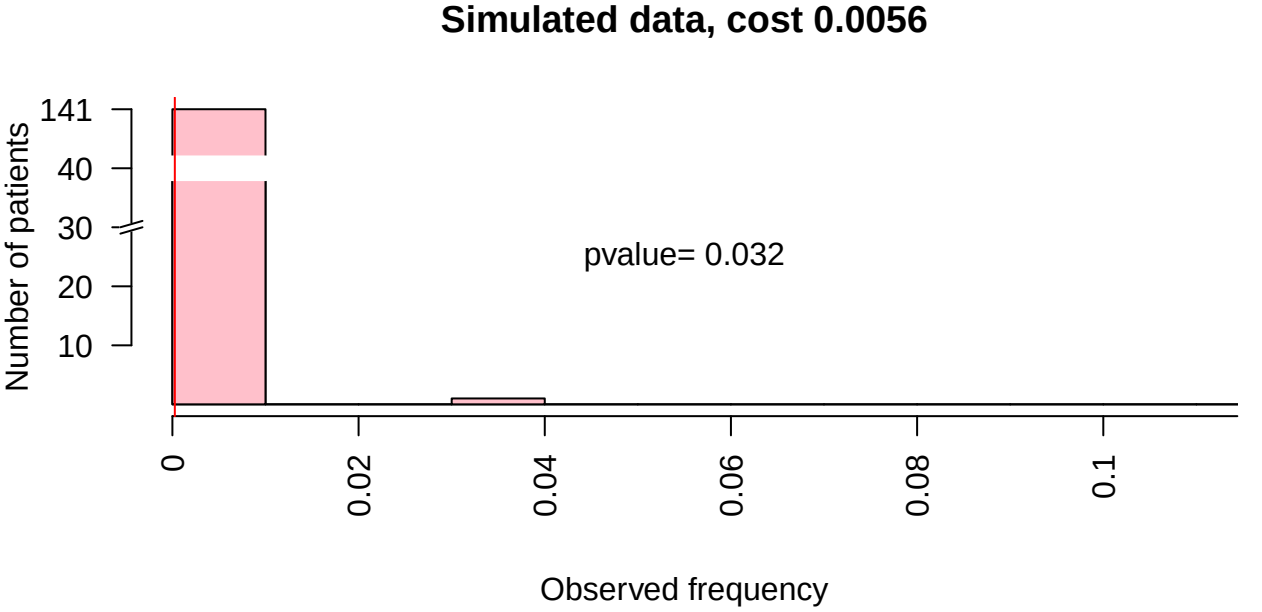

Single−SFS, site 540
Number of patients
140
40
30
20
10
0
0.02
0.04
0.06
Observed frequency

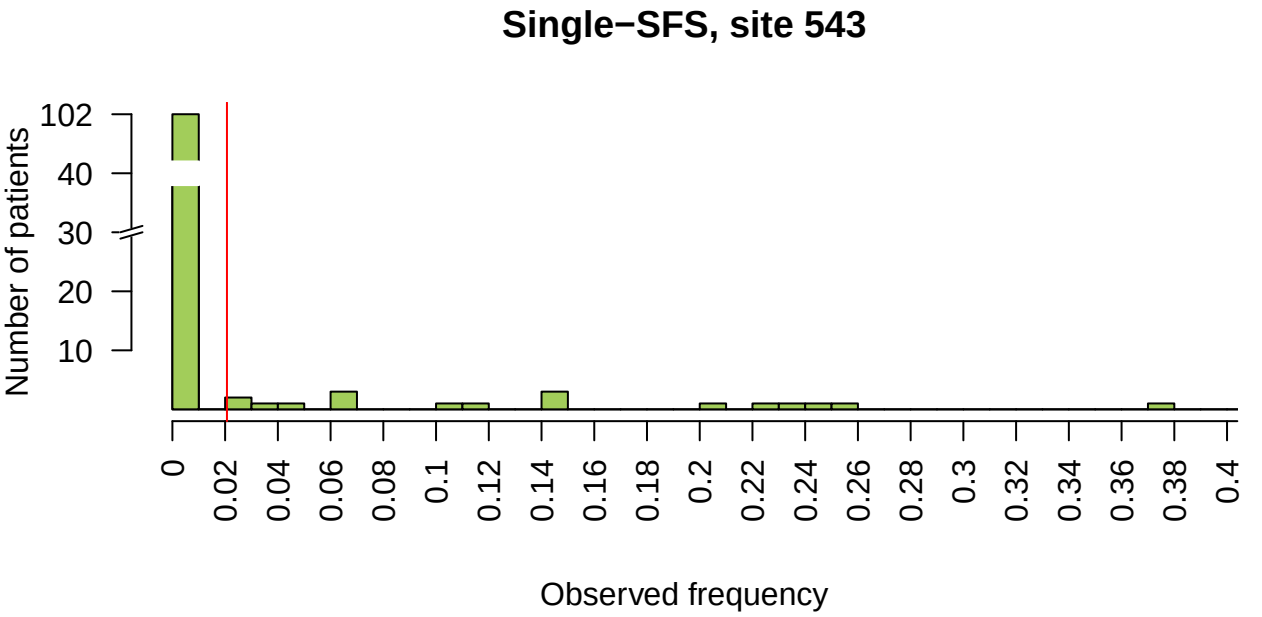

Simulated data, cost 0.0096
Number of patients
143
40
30
20
10
pvalue= 0.253
0
0.02
0.04
0.06
Observed frequency

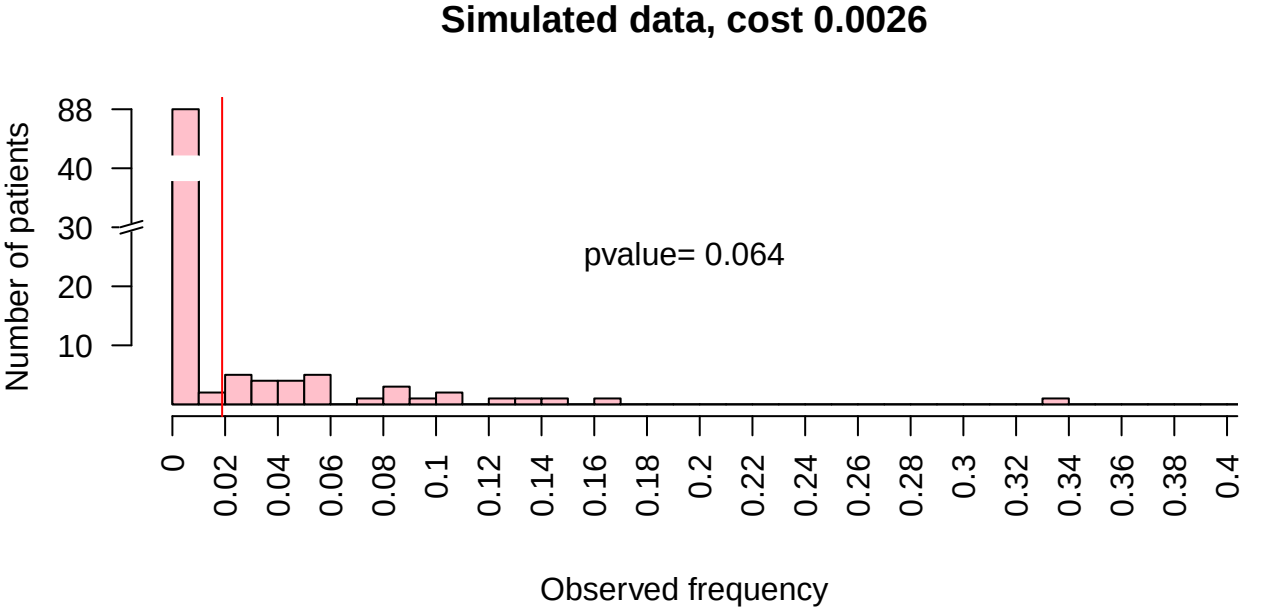

Single−SFS, site 541
Number of patients
141
40
30
20
10
0
0.02
0.04
Observed frequency

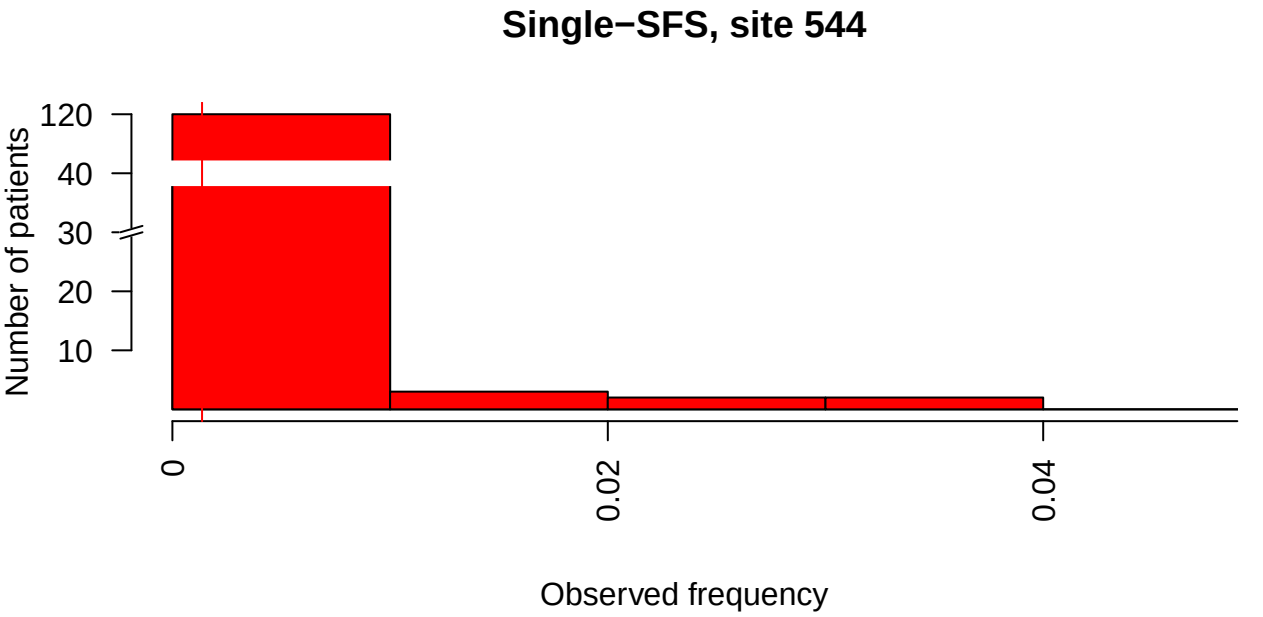

Simulated data, cost 0.0132
Number of patients
144
40
30
20
10
pvalue= 0.174
0
0.02
0.04
Observed frequency

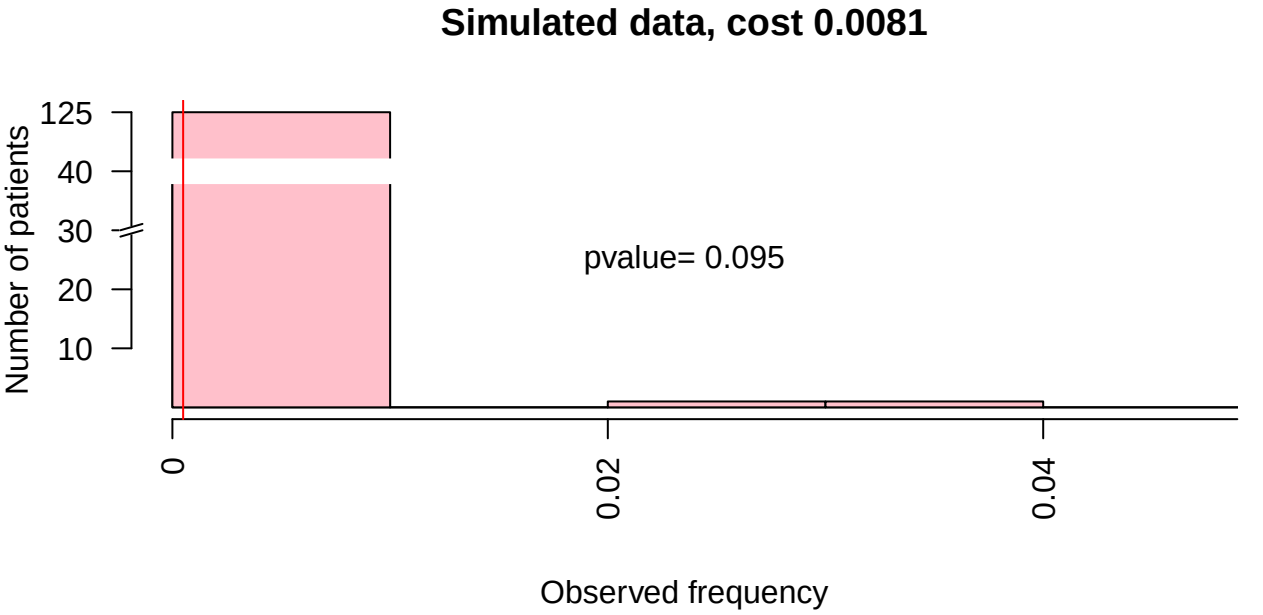

Single−SFS, site 542
Number of patients
135
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
Observed frequency

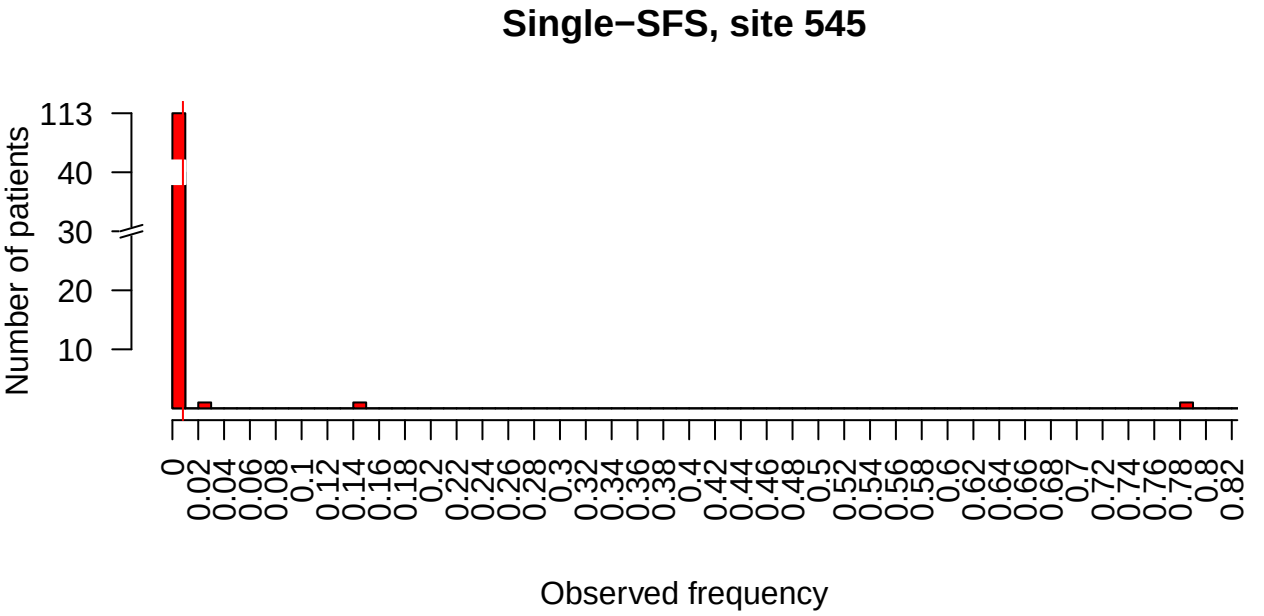

Simulated data, cost 0.0056
Number of patients
141
40
30
20
10
pvalue= 0.032
0
0.02
0.04
0.06
0.08
0.1
Observed frequency

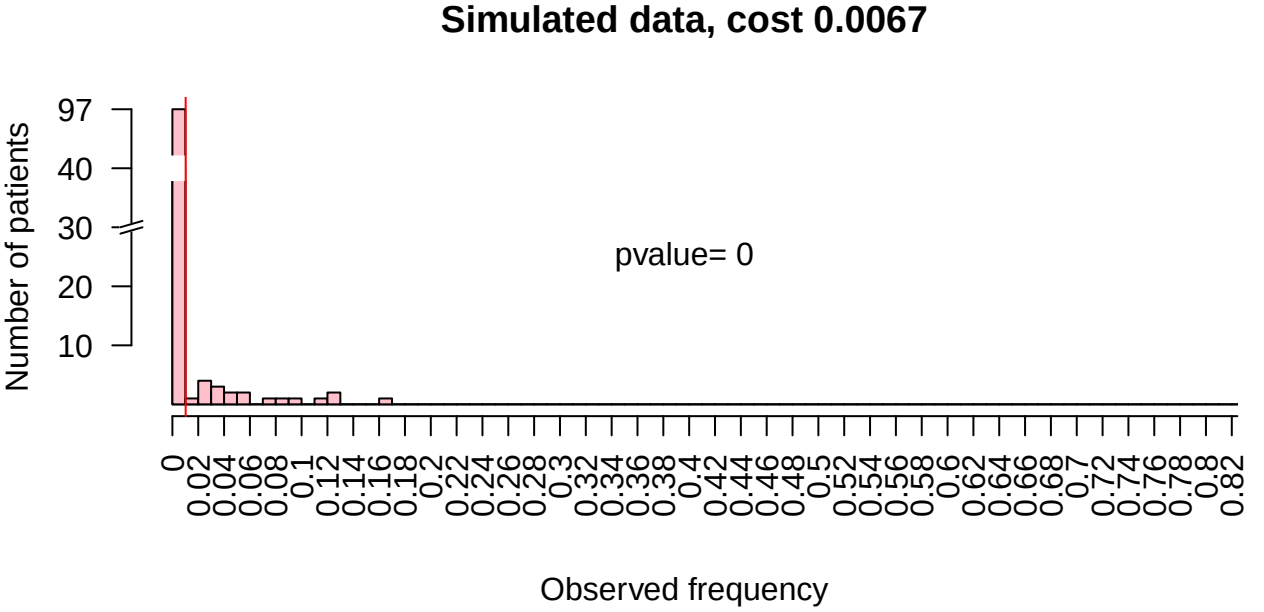

Single−SFS, site 543
Number of patients
102
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
0.24
0.26
0.28
0.3
0.32
0.34
0.36
0.38
0.4
Observed frequency

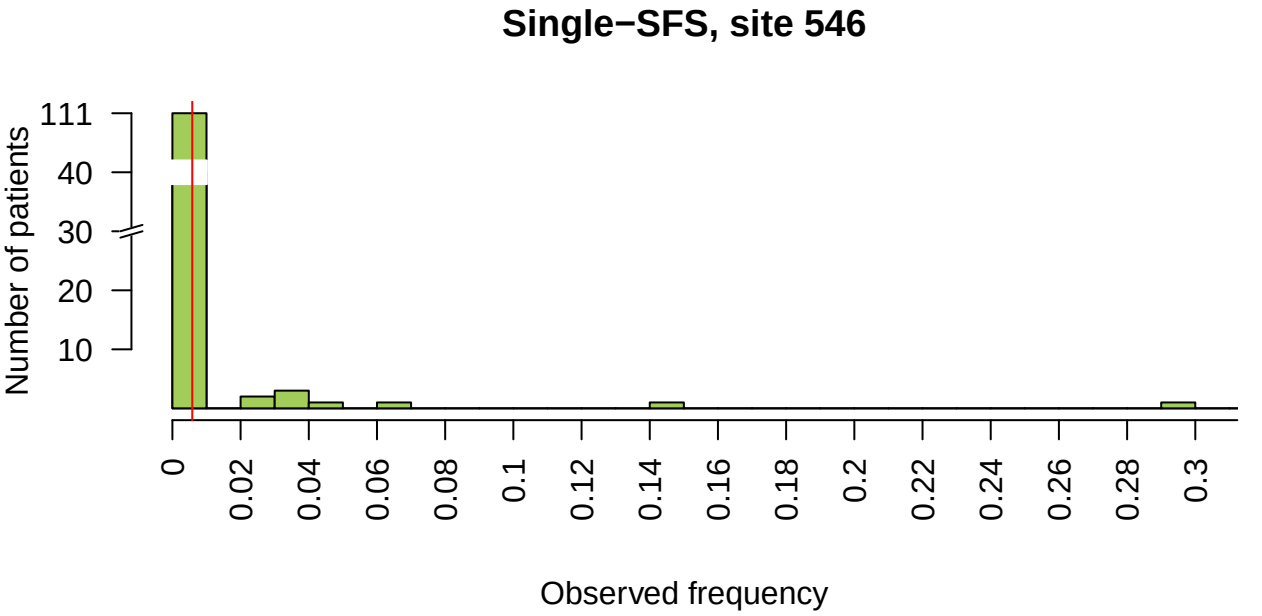

Simulated data, cost 0.0026
Number of patients
88
40
30
20
10
pvalue= 0.064
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
0.24
0.26
0.28
0.3
0.32
0.34
0.36
0.38
0.4
Observed frequency

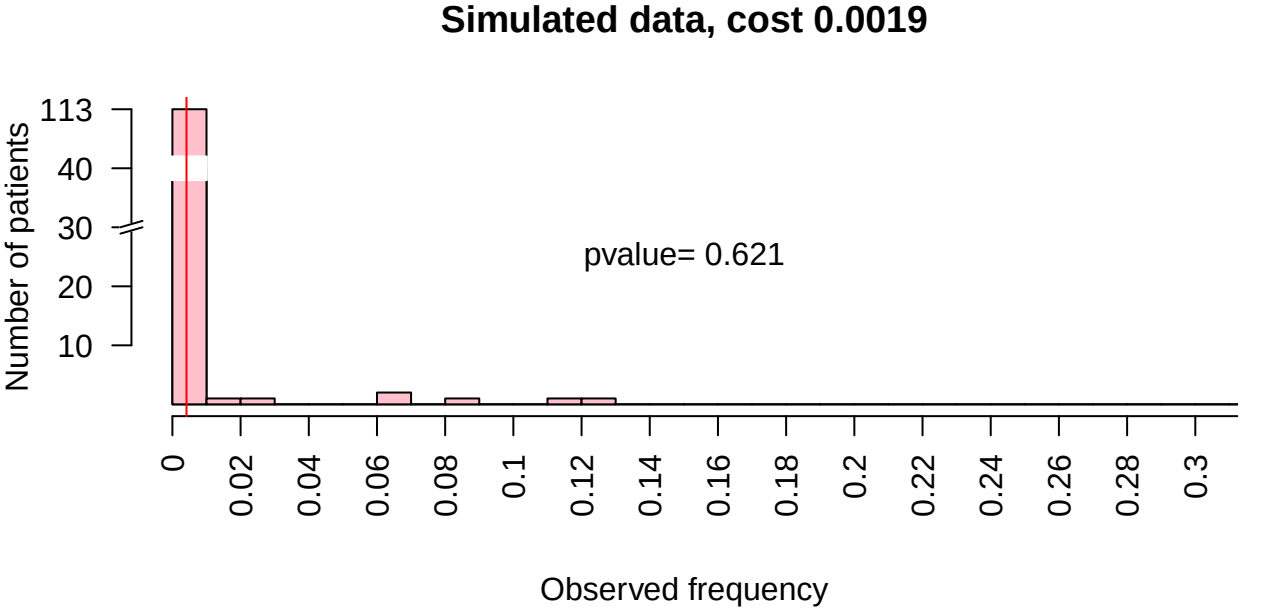

Single−SFS, site 544
Number of patients
120
40
30
20
10
0
0.02
0.04
Observed frequency

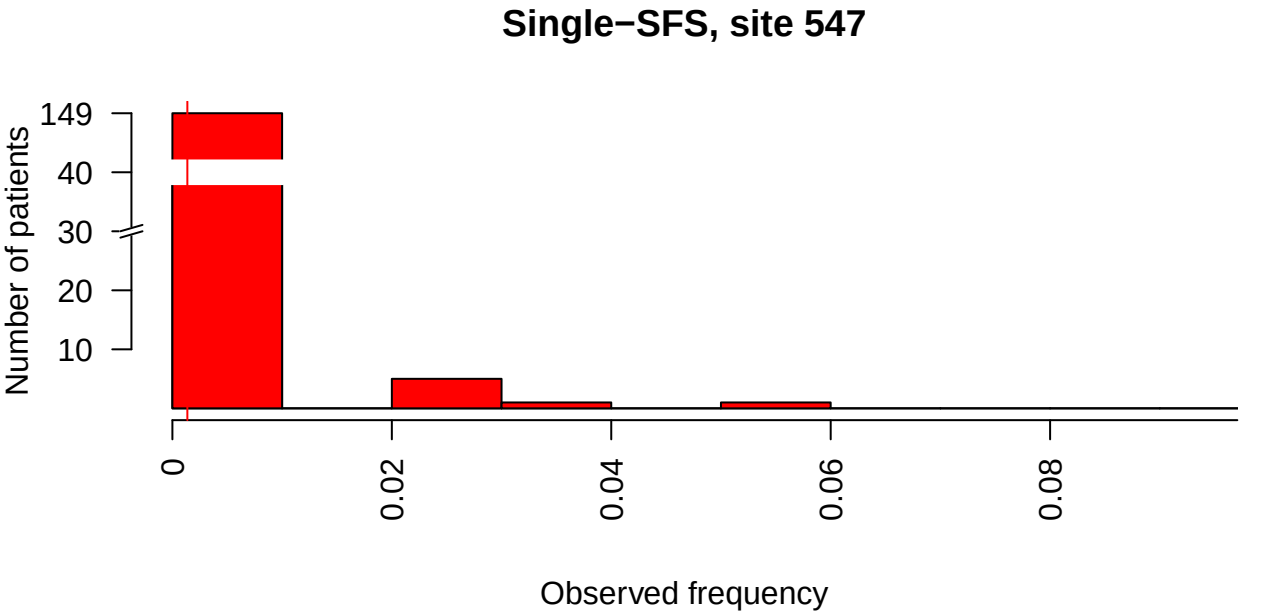

Simulated data, cost 0.0081
Number of patients
125
40
30
20
10
pvalue= 0.095
0
0.02
0.04
Observed frequency

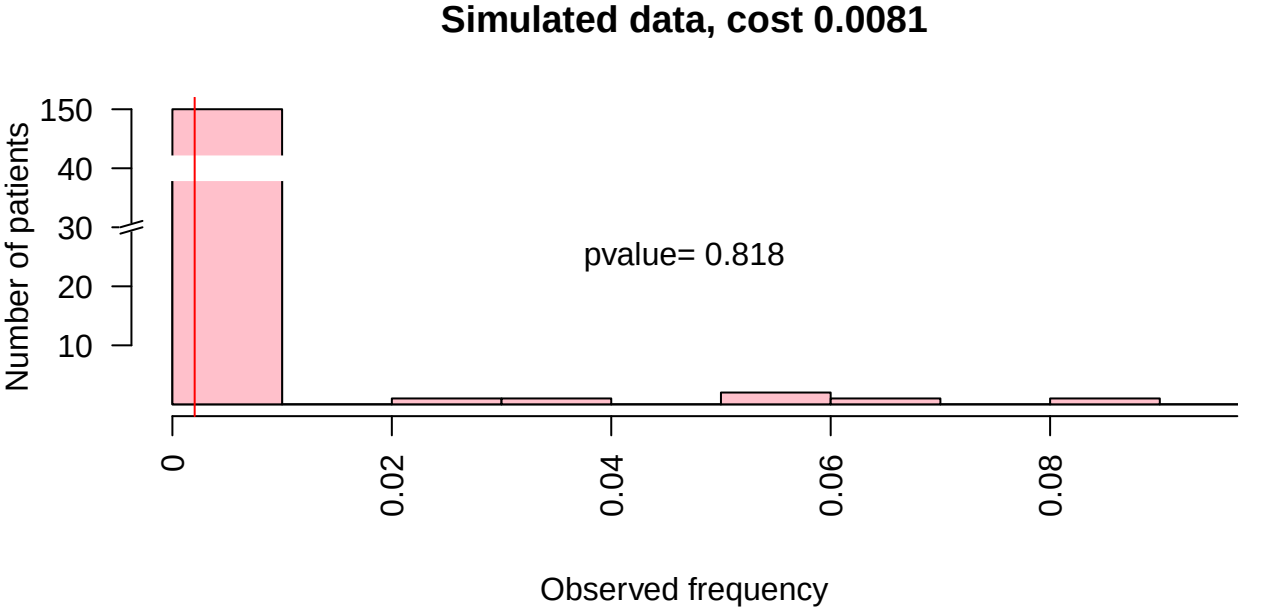

Single−SFS, site 545
Number of patients
113
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
0.24
0.26
0.28
0.3
0.32
0.34
0.36
0.38
0.4
0.42
0.44
0.46
0.48
0.5
0.52
0.54
0.56
0.58
0.6
0.62
0.64
0.66
0.68
0.7
0.72
0.74
0.76
0.78
0.8
0.82
Observed frequency

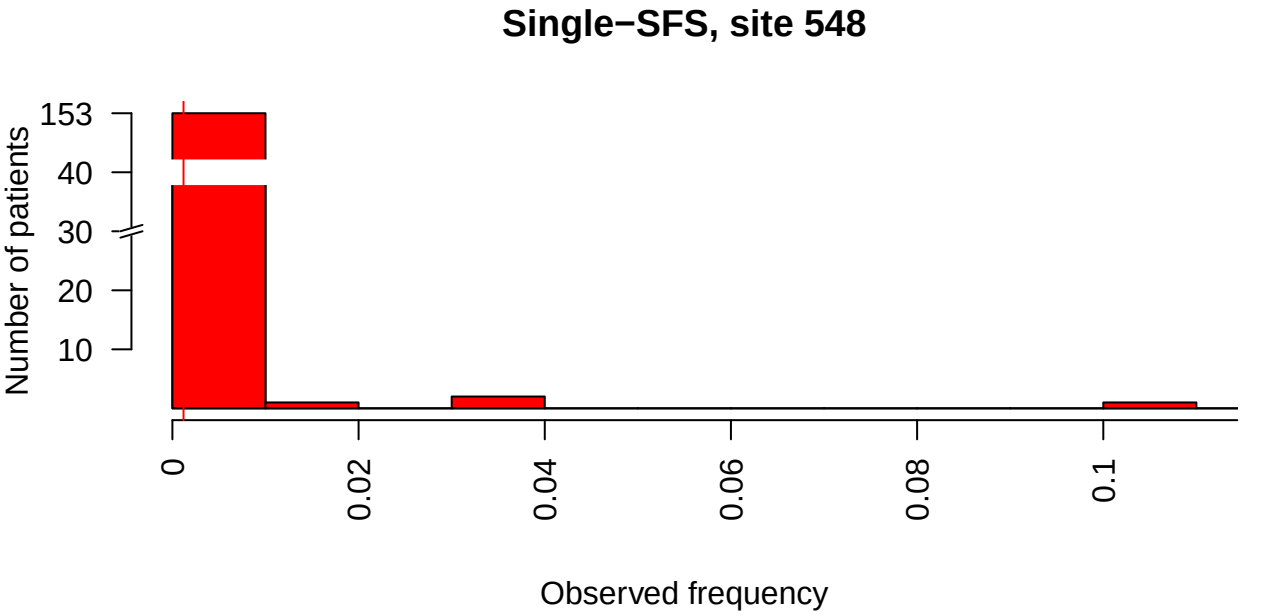

Simulated data, cost 0.0067
Number of patients
97
40
30
20
10
pvalue= 0
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
0.24
0.26
0.28
0.3
0.32
0.34
0.36
0.38
0.4
0.42
0.44
0.46
0.48
0.5
0.52
0.54
0.56
0.58
0.6
0.62
0.64
0.66
0.68
0.7
0.72
0.74
0.76
0.78
0.8
0.82
Observed frequency

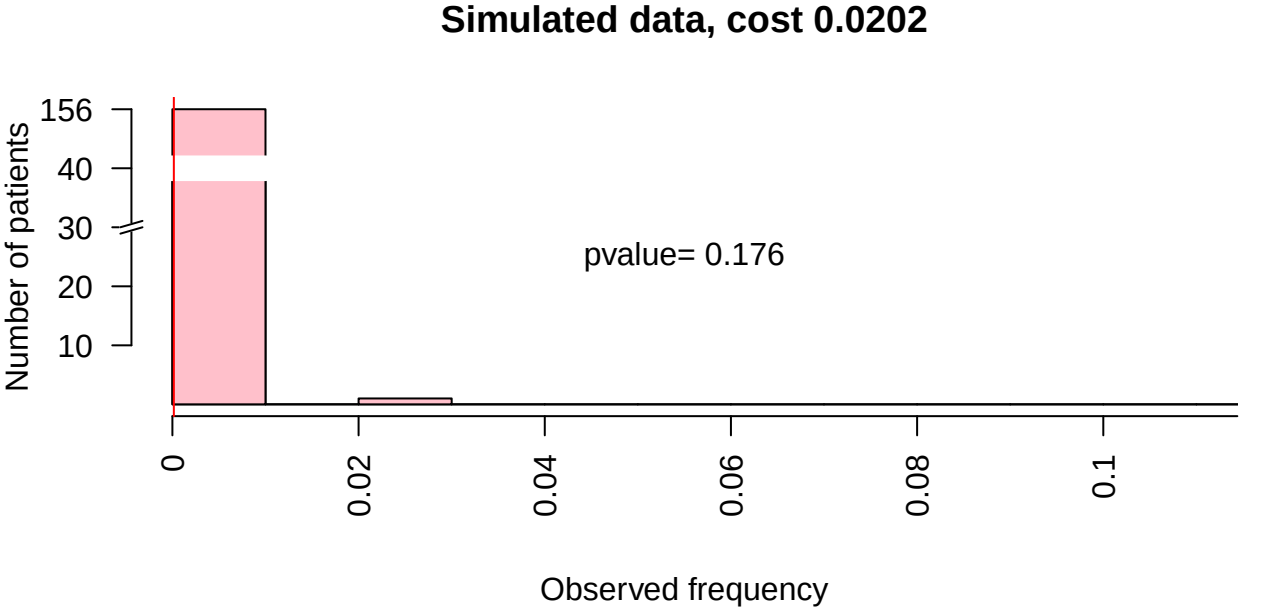

Single−SFS, site 546
Number of patients
111
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
0.24
0.26
0.28
0.3
Observed frequency

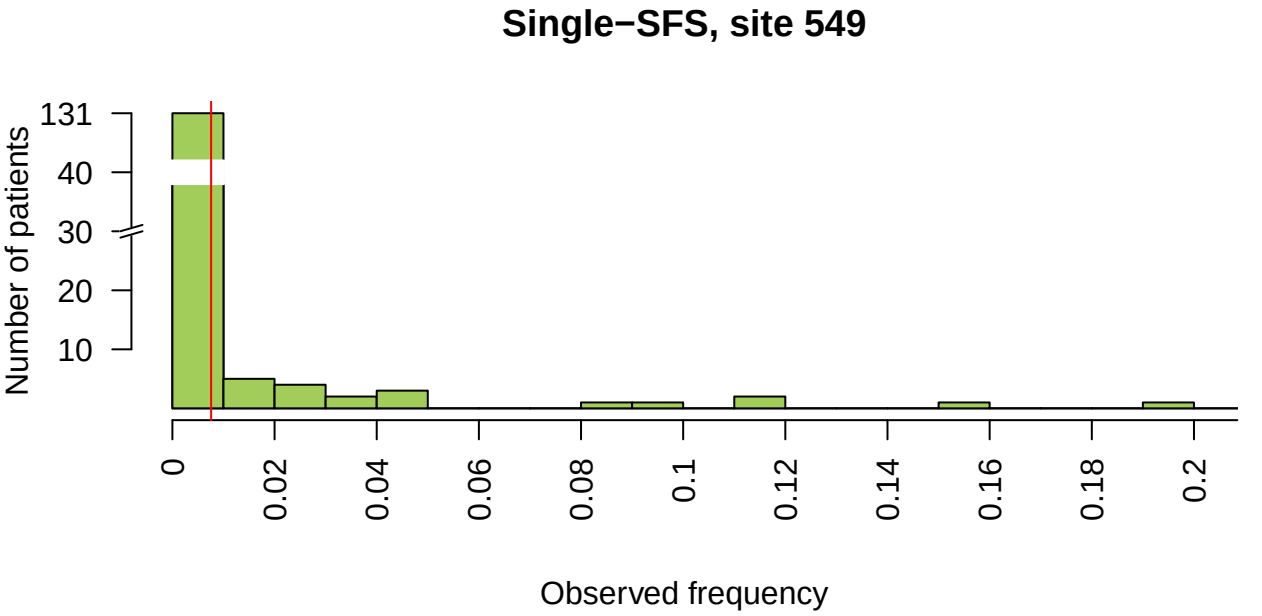

Simulated data, cost 0.0019
Number of patients
113
40
30
20
10
pvalue= 0.621
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
0.24
0.26
0.28
0.3
Observed frequency

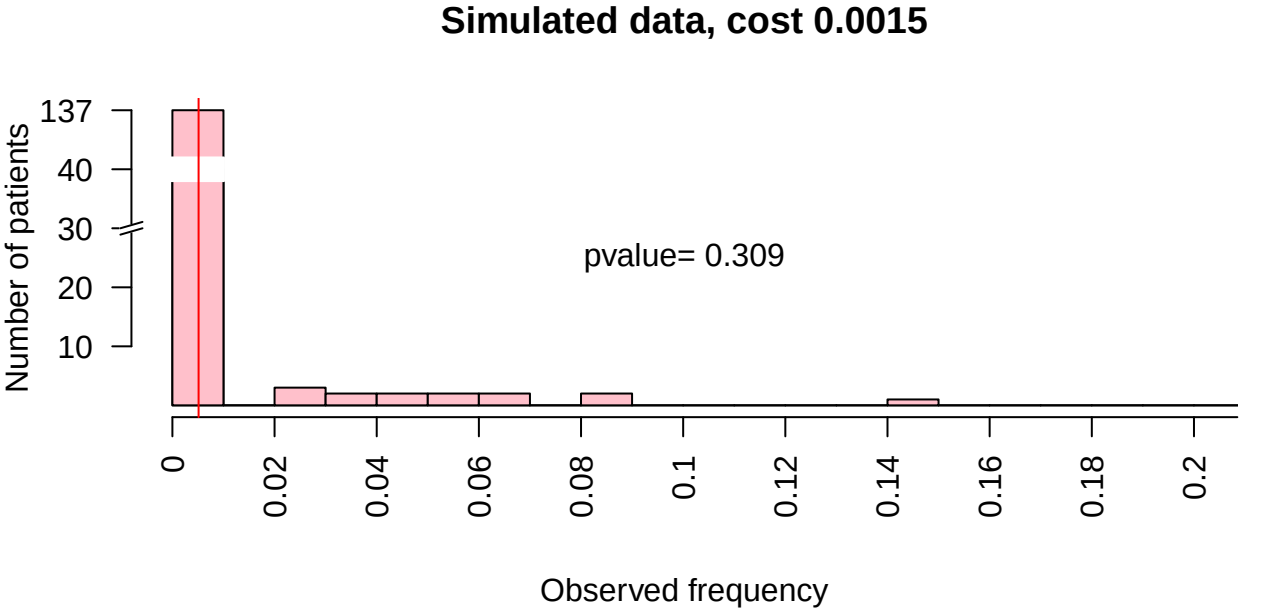

Single−SFS, site 547
Number of patients
149
40
30
20
10
0
0.02
0.04
0.06
0.08
Observed frequency

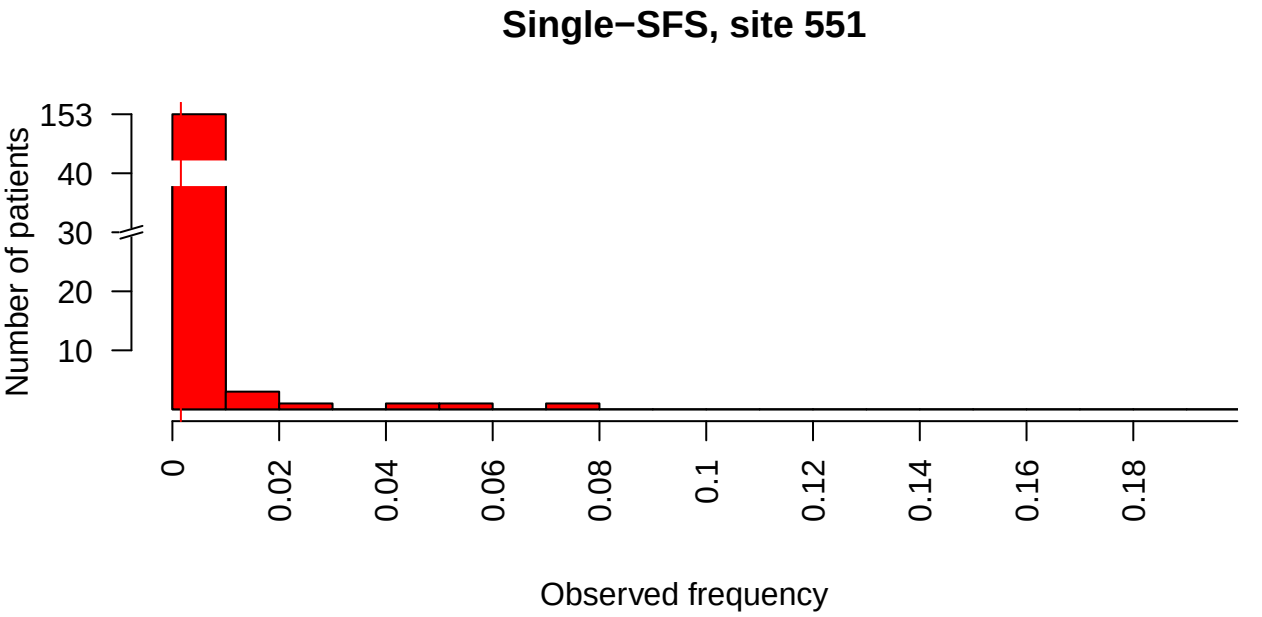

Simulated data, cost 0.0081
Number of patients
150
40
30
20
10
pvalue= 0.818
0
0.02
0.04
0.06
0.08
Observed frequency

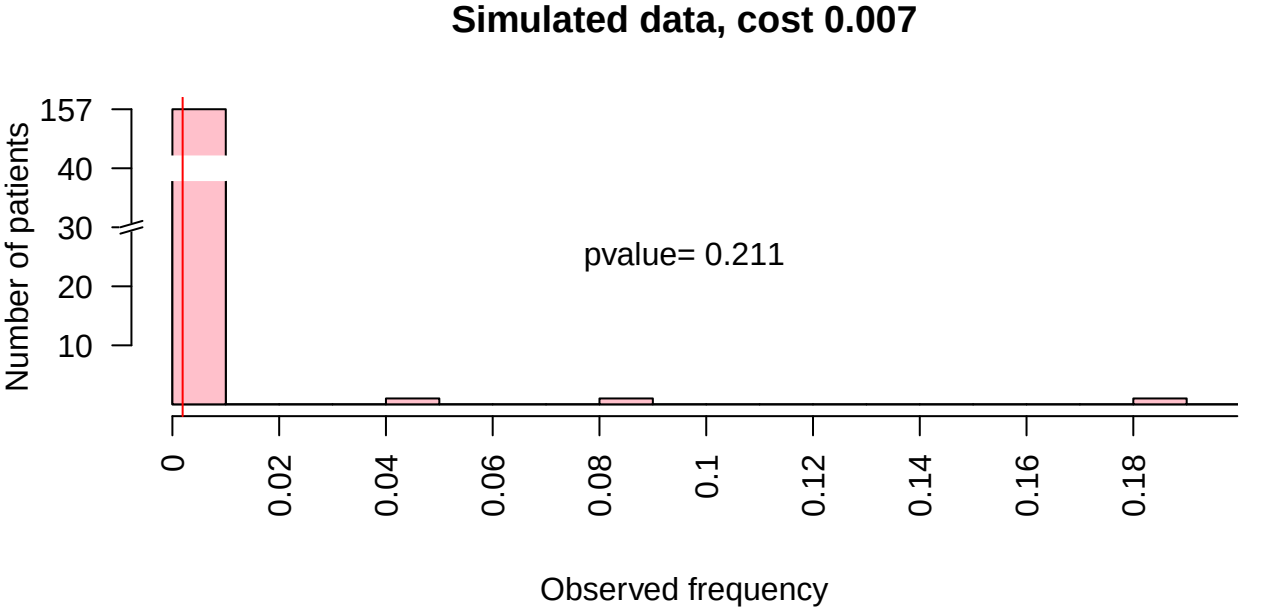

Single−SFS, site 548
Number of patients
153
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
Observed frequency

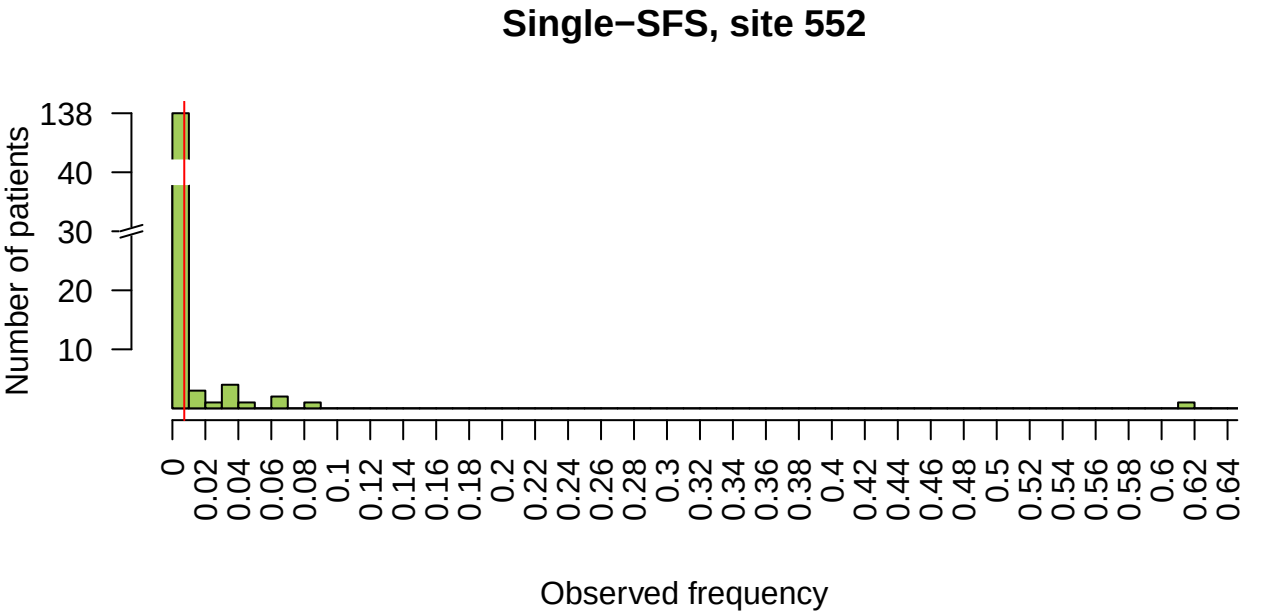

Simulated data, cost 0.0202
Number of patients
156
40
30
20
10
pvalue= 0.176
0
0.02
0.04
0.06
0.08
0.1
Observed frequency

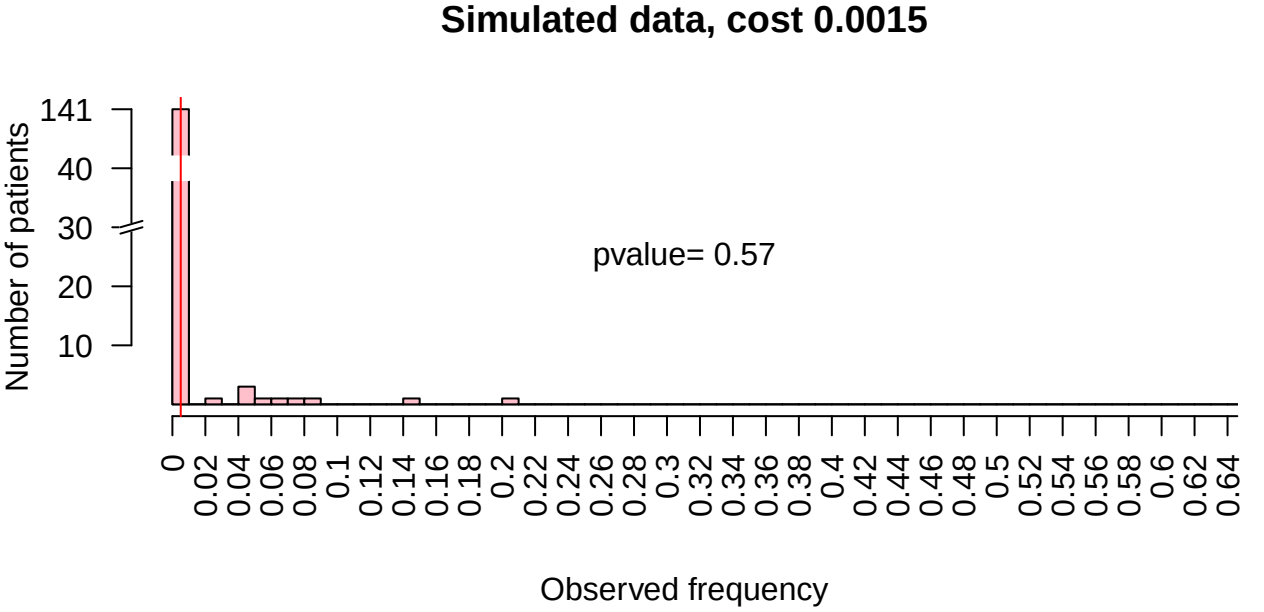

Single−SFS, site 549
Number of patients
131
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
Observed frequency

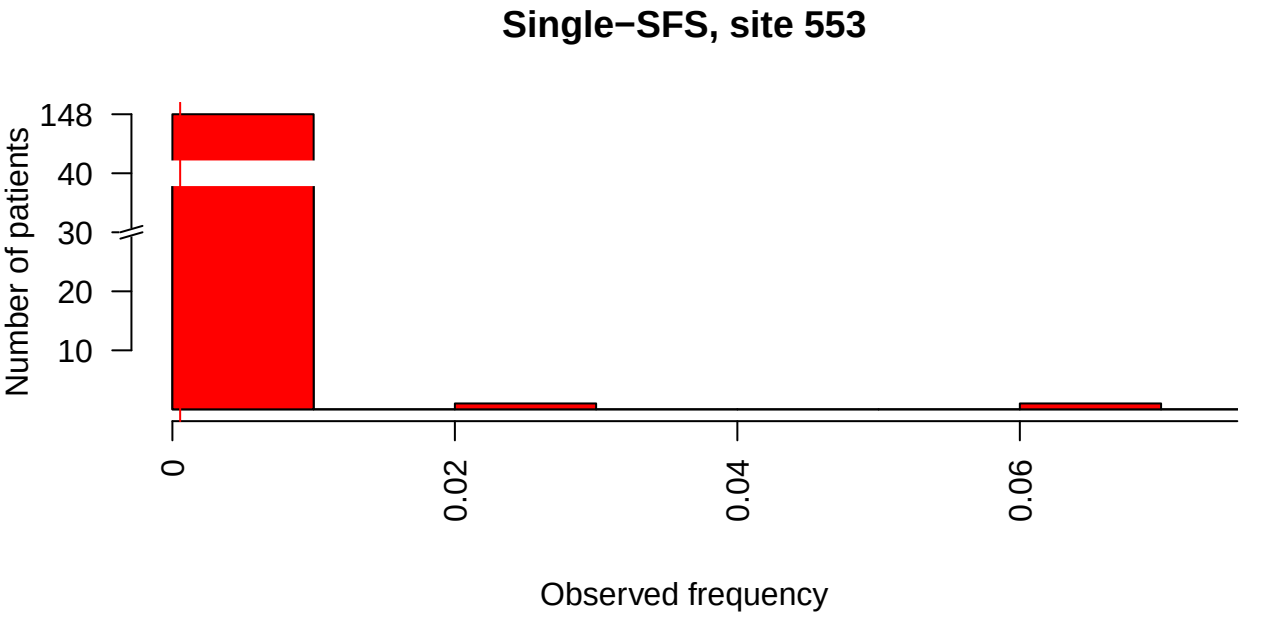

Simulated data, cost 0.0015
Number of patients
137
40
30
20
10
pvalue= 0.309
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
Observed frequency

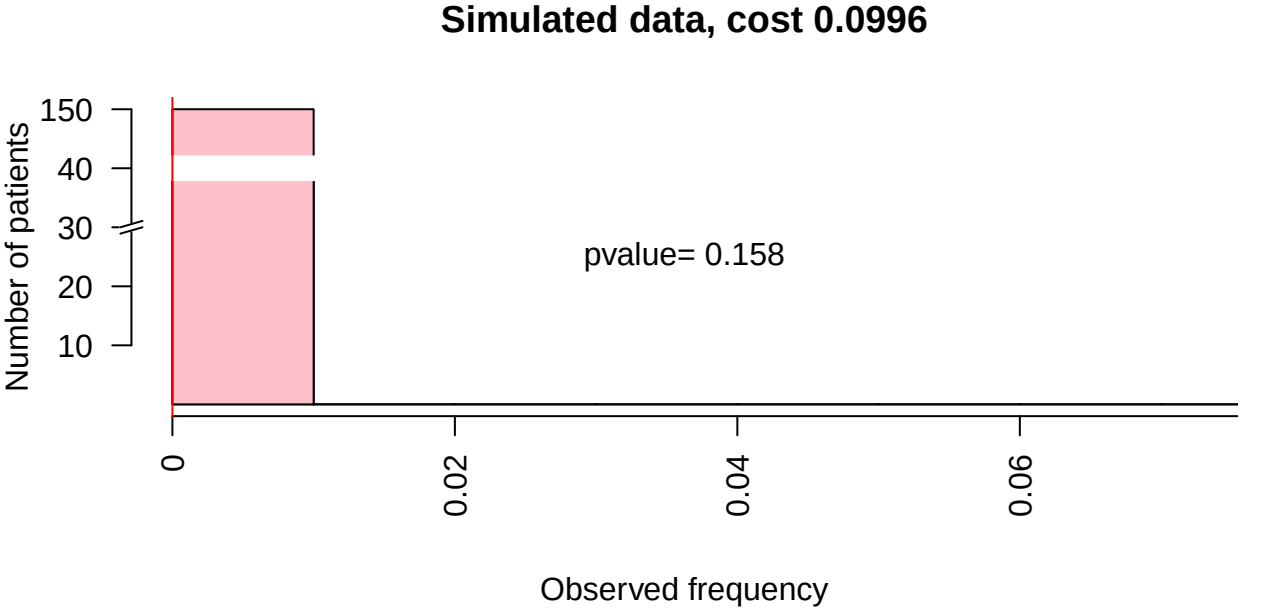

Single−SFS, site 551
Number of patients
153
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
Observed frequency

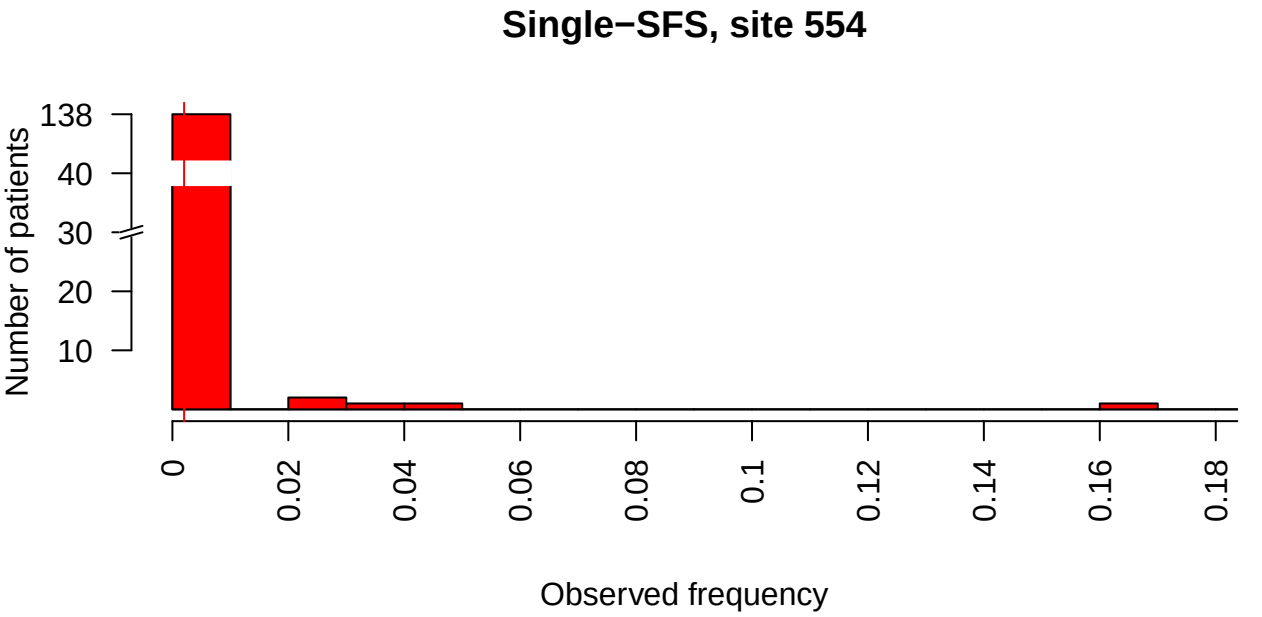

Simulated data, cost 0.007
Number of patients
157
40
30
20
10
pvalue= 0.211
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
Observed frequency

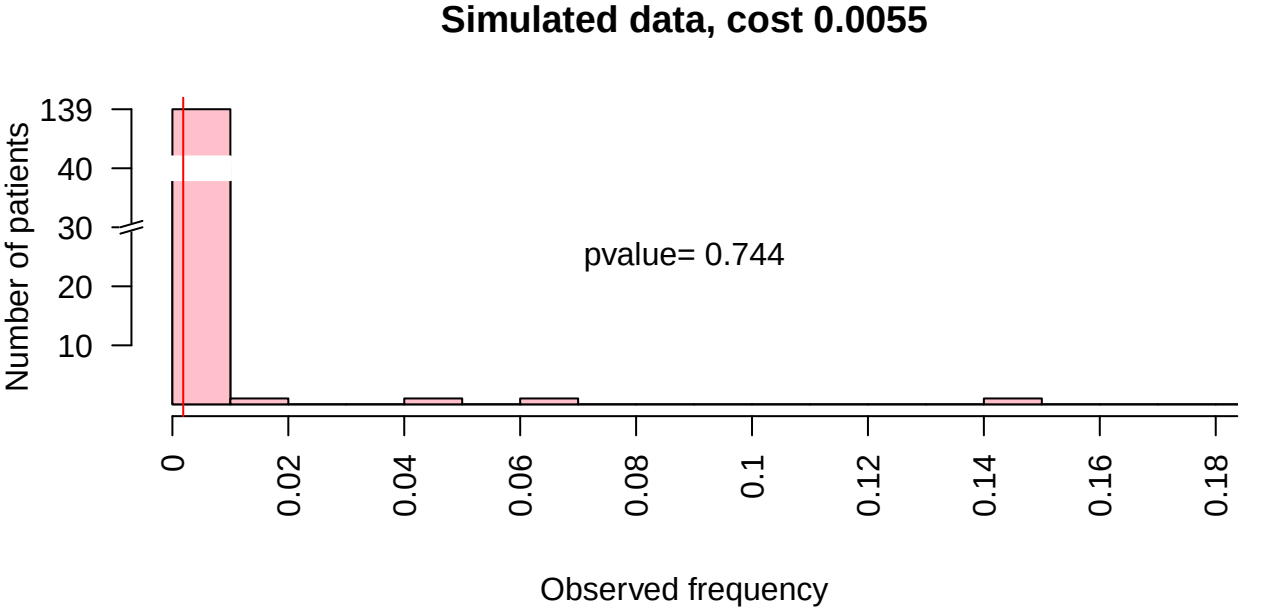

Single−SFS, site 552
Number of patients
138
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
0.24
0.26
0.28
0.3
0.32
0.34
0.36
0.38
0.4
0.42
0.44
0.46
0.48
0.5
0.52
0.54
0.56
0.58
0.6
0.62
0.64
Observed frequency

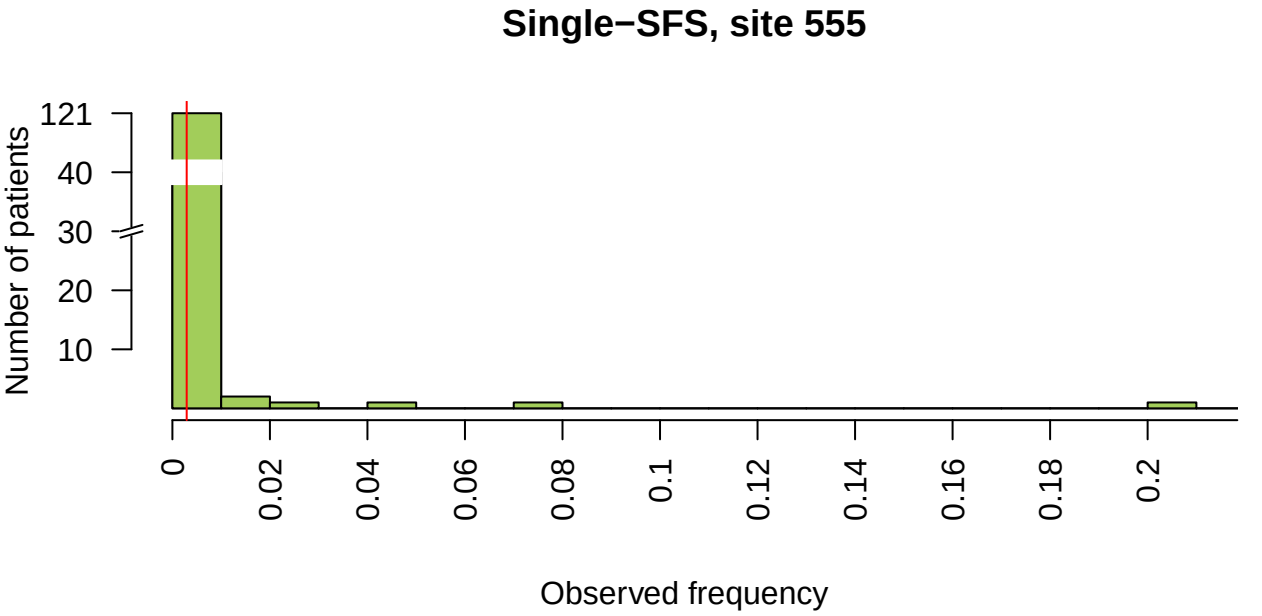

Simulated data, cost 0.0015
Number of patients
141
40
30
20
10
pvalue= 0.57
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
0.24
0.26
0.28
0.3
0.32
0.34
0.36
0.38
0.4
0.42
0.44
0.46
0.48
0.5
0.52
0.54
0.56
0.58
0.6
0.62
0.64
Observed frequency

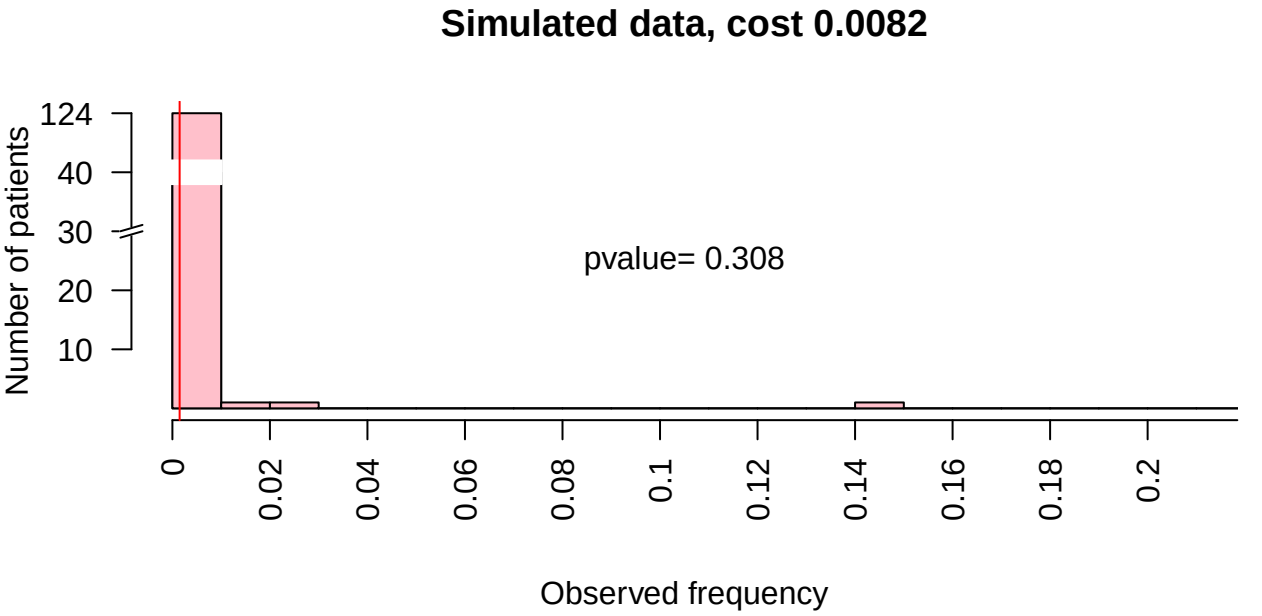

Single−SFS, site 553
Number of patients
148
40
30
20
10
0
0.02
0.04
0.06
Observed frequency

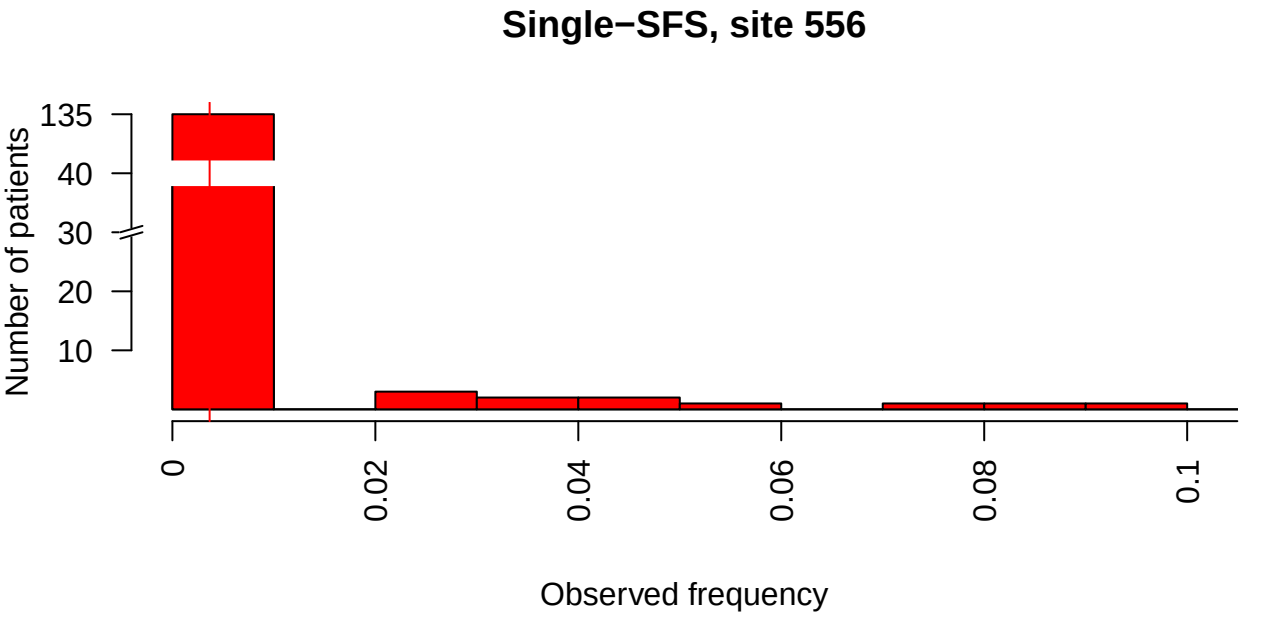

Simulated data, cost 0.0996
Number of patients
150
40
30
20
10
pvalue= 0.158
0
0.02
0.04
0.06
Observed frequency

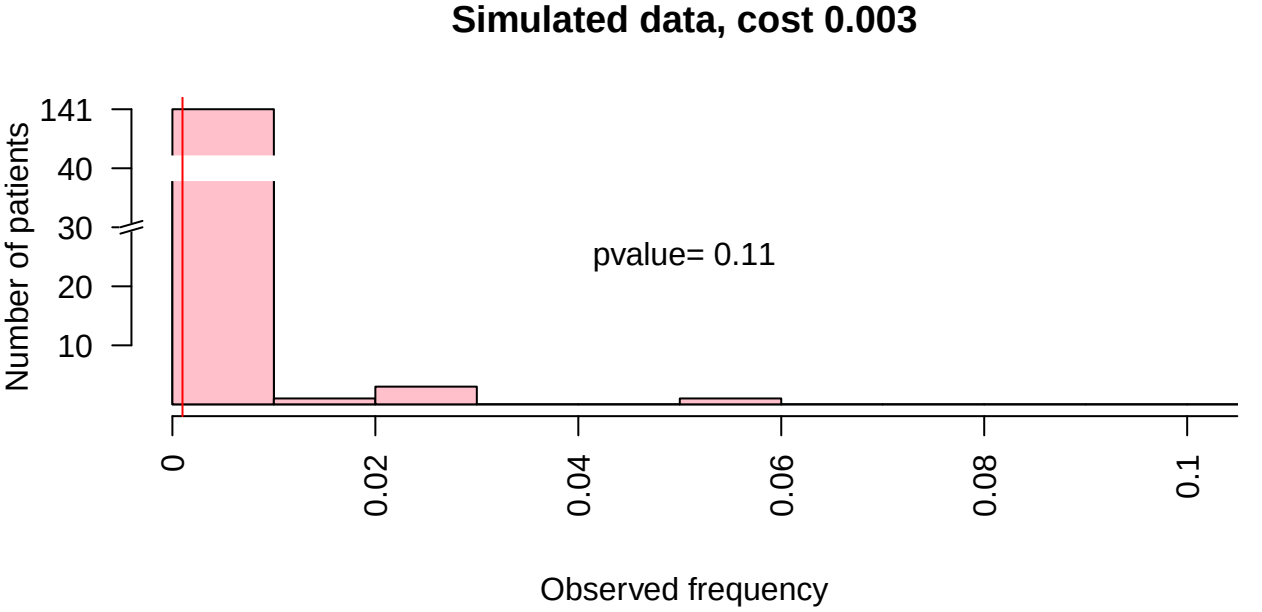

Single−SFS, site 554
Number of patients
138
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
Observed frequency

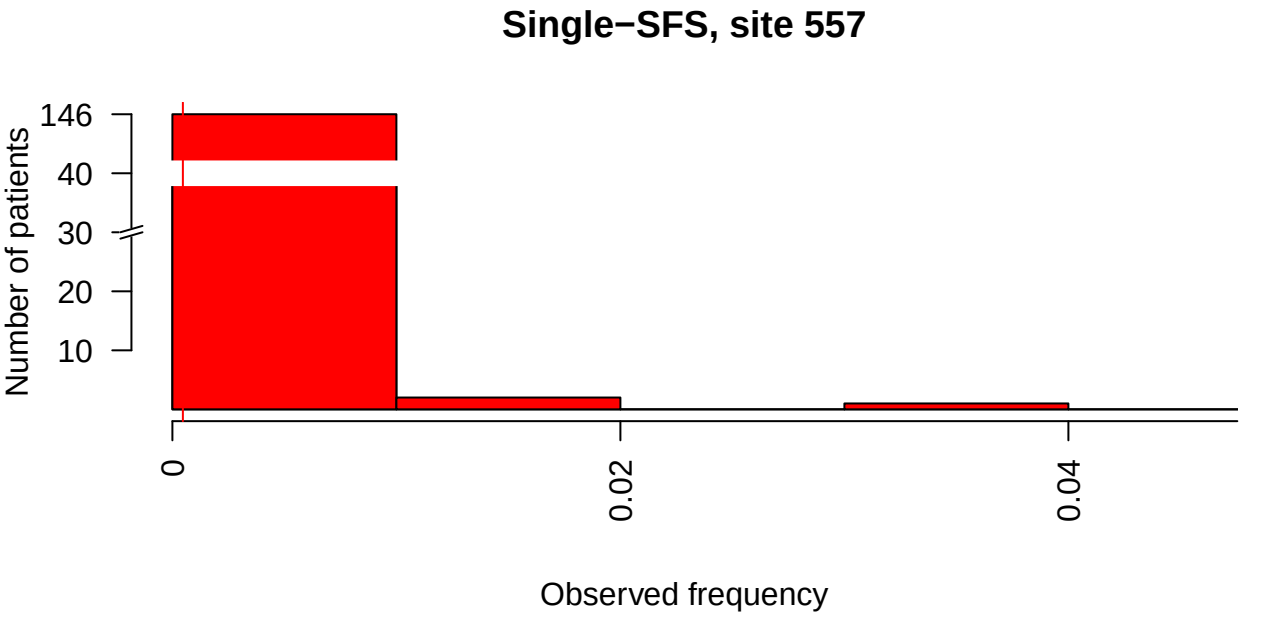

Simulated data, cost 0.0055
Number of patients
139
40
30
20
10
pvalue= 0.744
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
Observed frequency

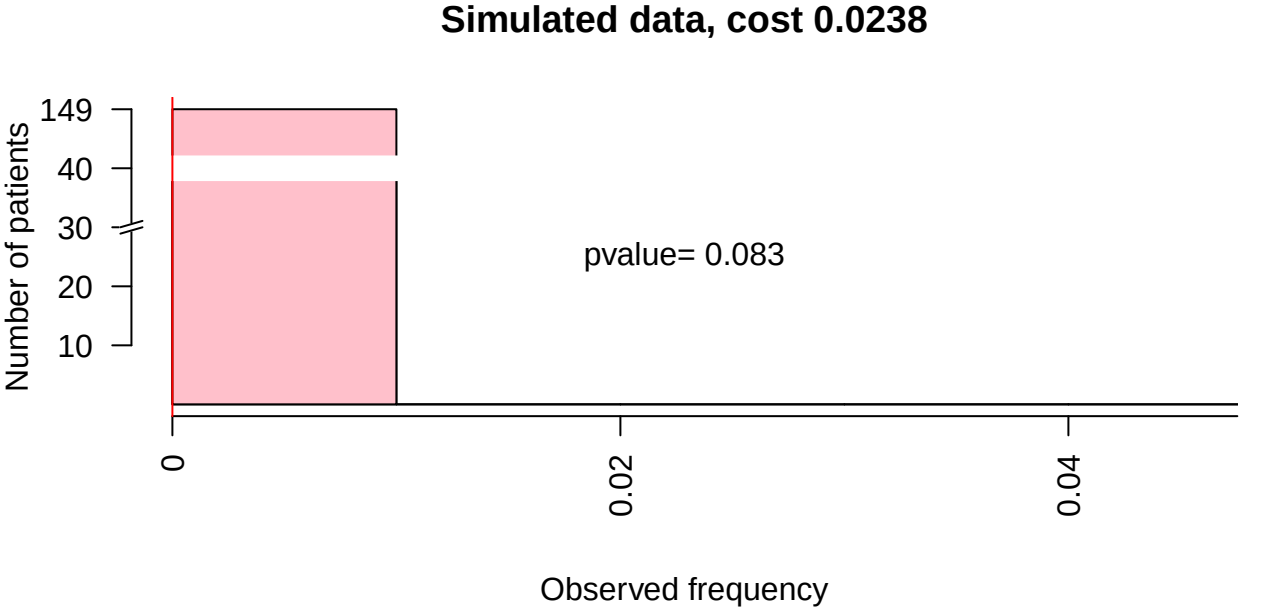

Single−SFS, site 555
Number of patients
121
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
Observed frequency

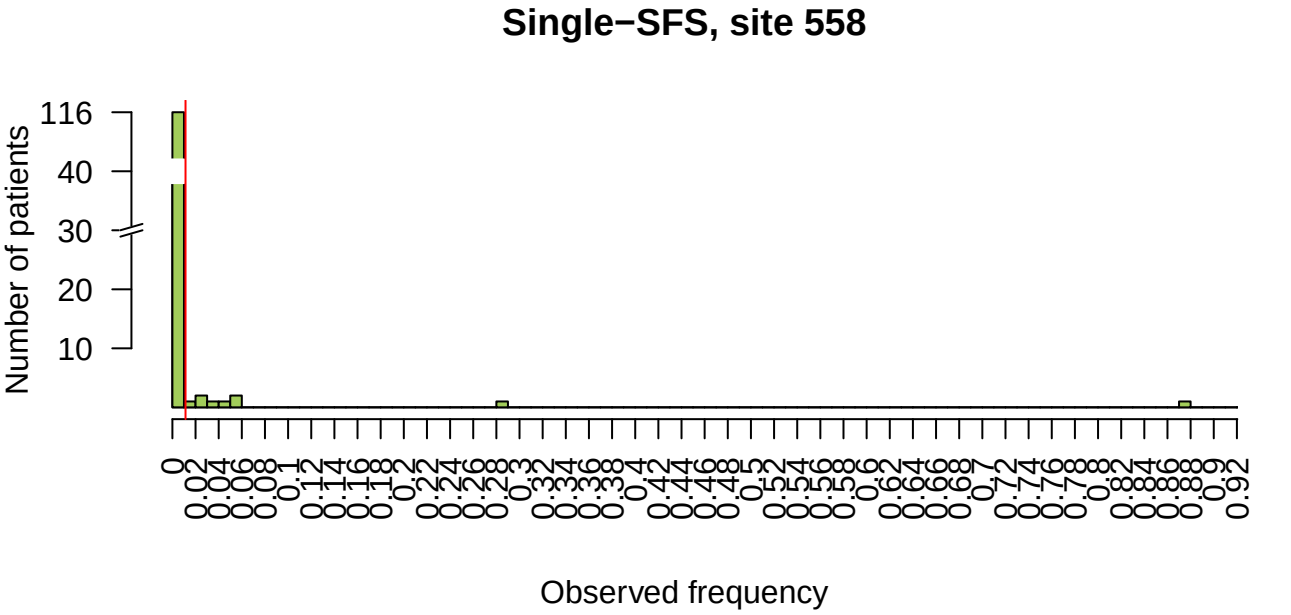

Simulated data, cost 0.0082
Number of patients
124
40
30
20
10
pvalue= 0.308
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
Observed frequency

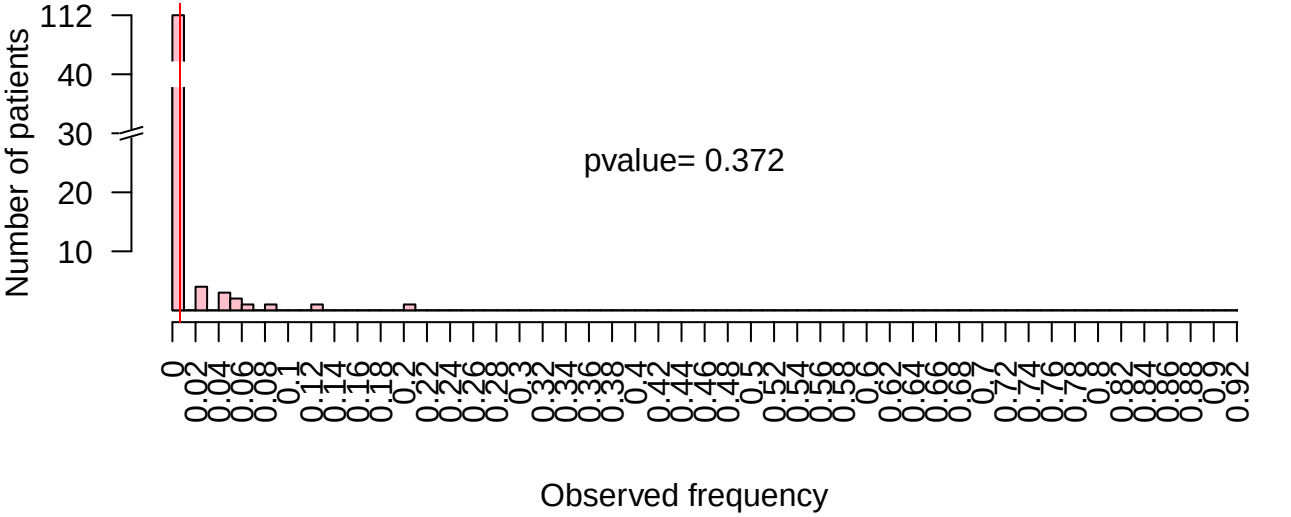

Single−SFS, site 556
Number of patients
135
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
Observed frequency

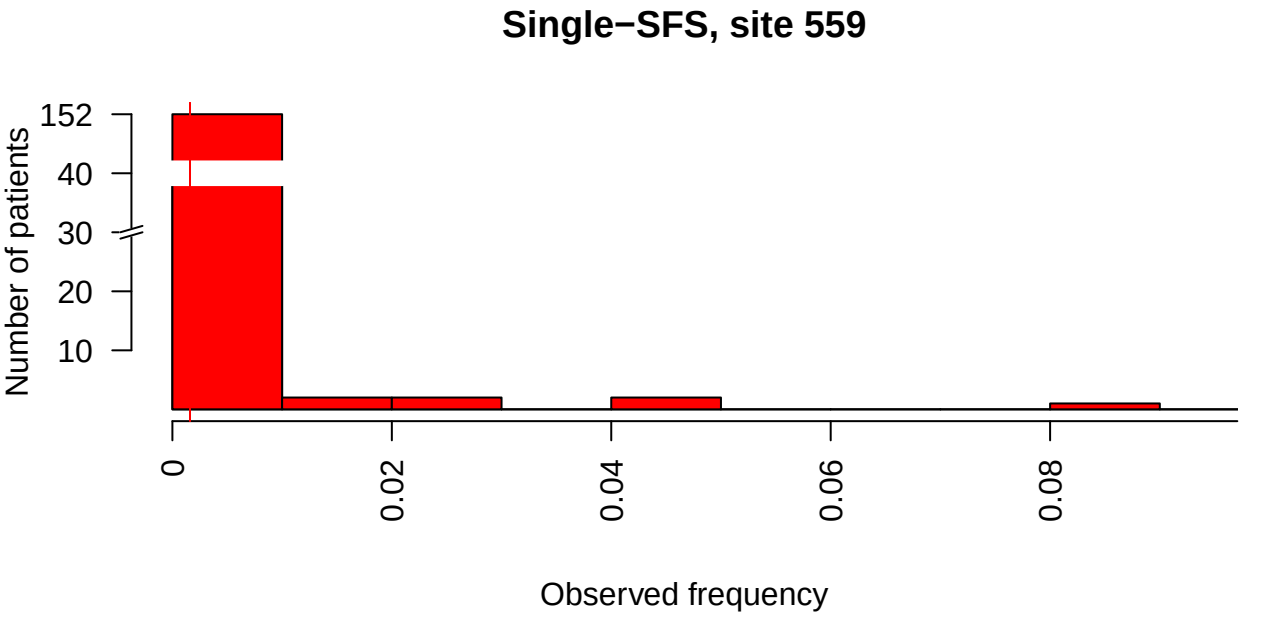

Simulated data, cost 0.003
Number of patients
141
40
30
20
10
pvalue= 0.11
0
0.02
0.04
0.06
0.08
0.1
Observed frequency

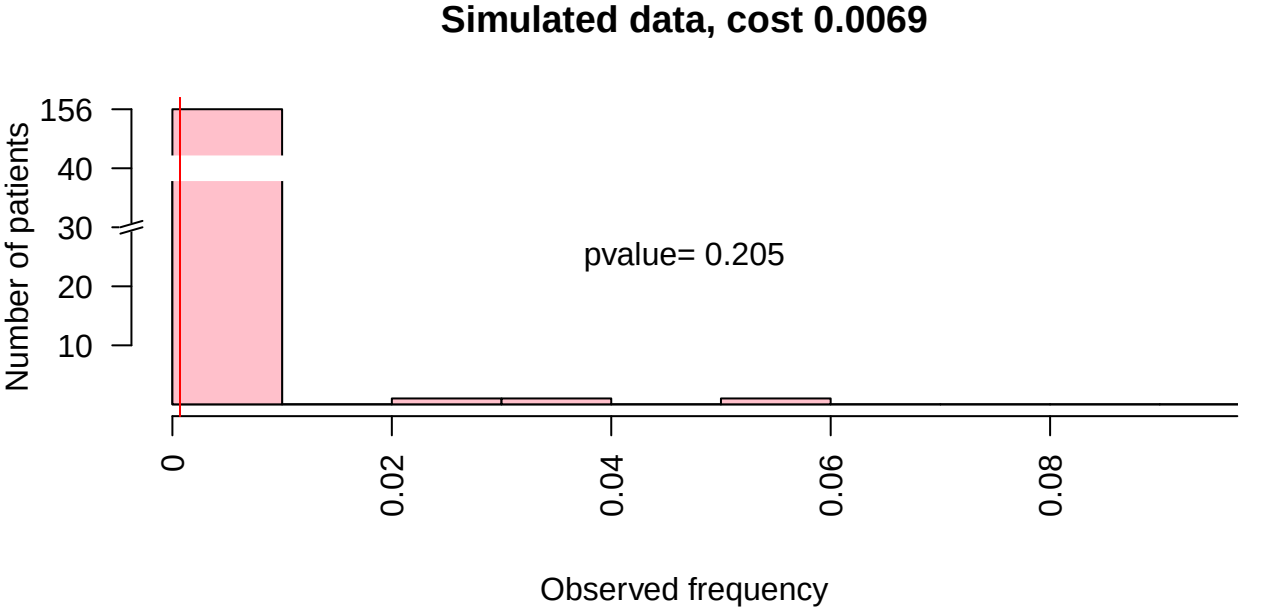

Single−SFS, site 557
Number of patients
146
40
30
20
10
0
0.02
0.04
Observed frequency

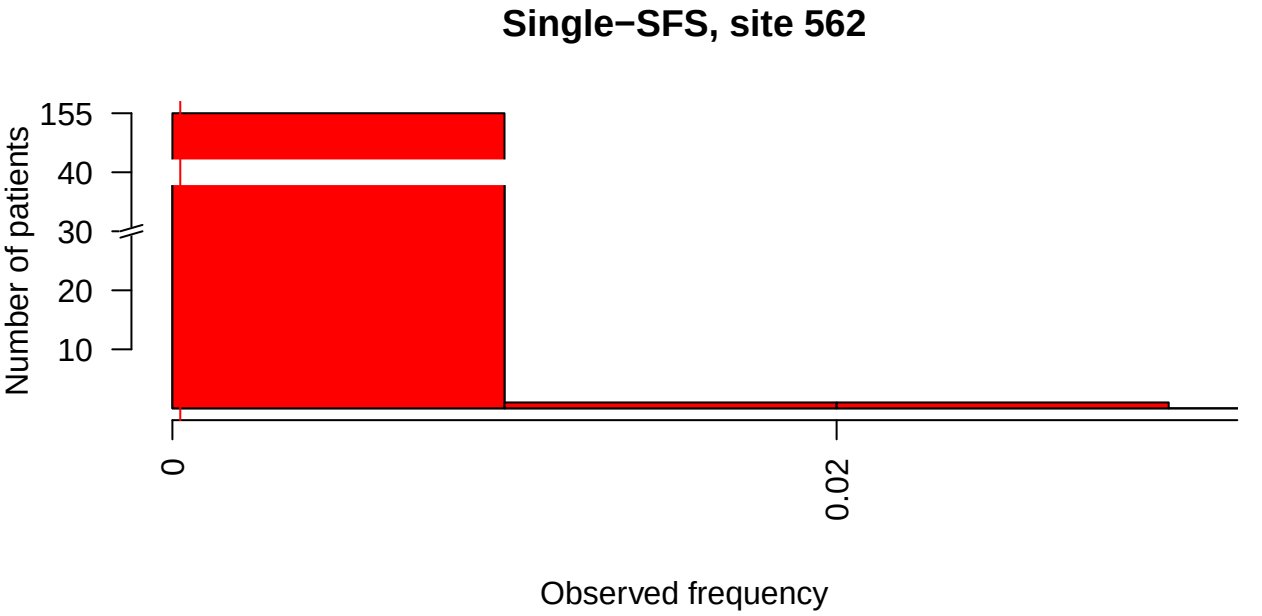

Simulated data, cost 0.0238
Number of patients
149
40
30
20
10
pvalue= 0.083
0
0.02
0.04
Observed frequency

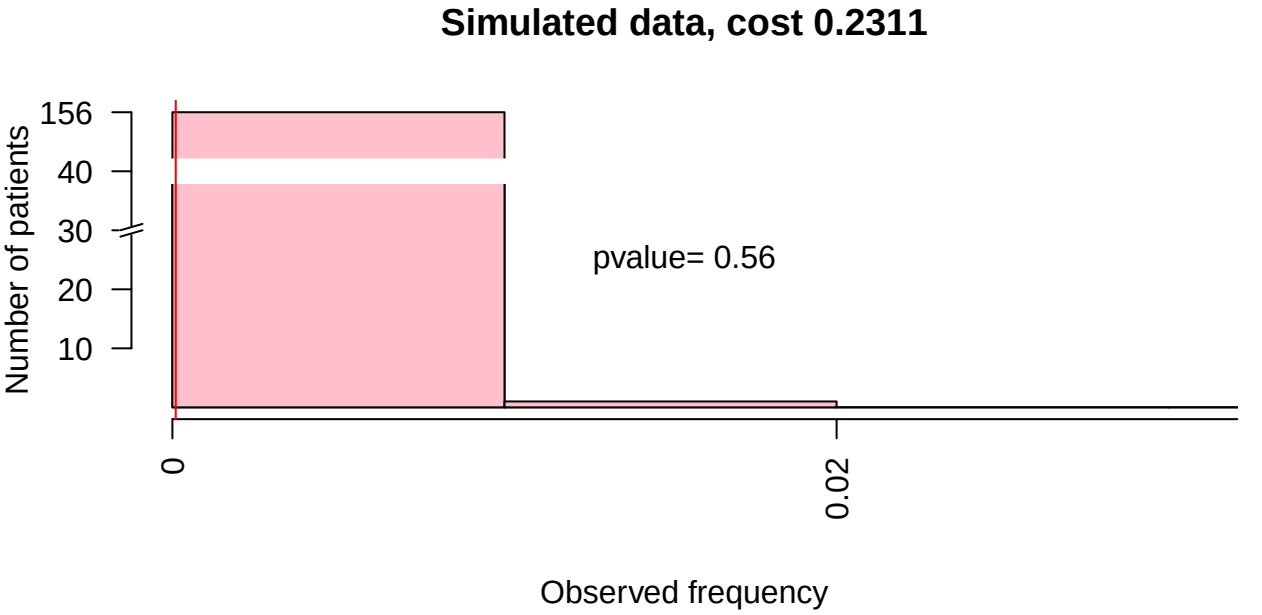

Single−SFS, site 558
Number of patients
116
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
0.24
0.26
0.28
0.3
0.32
0.34
0.36
0.38
0.4
0.42
0.44
0.46
0.48
0.5
0.52
0.54
0.56
0.58
0.6
0.62
0.64
0.66
0.68
0.7
0.72
0.74
0.76
0.78
0.8
0.82
0.84
0.86
0.88
0.9
0.92
Observed frequency

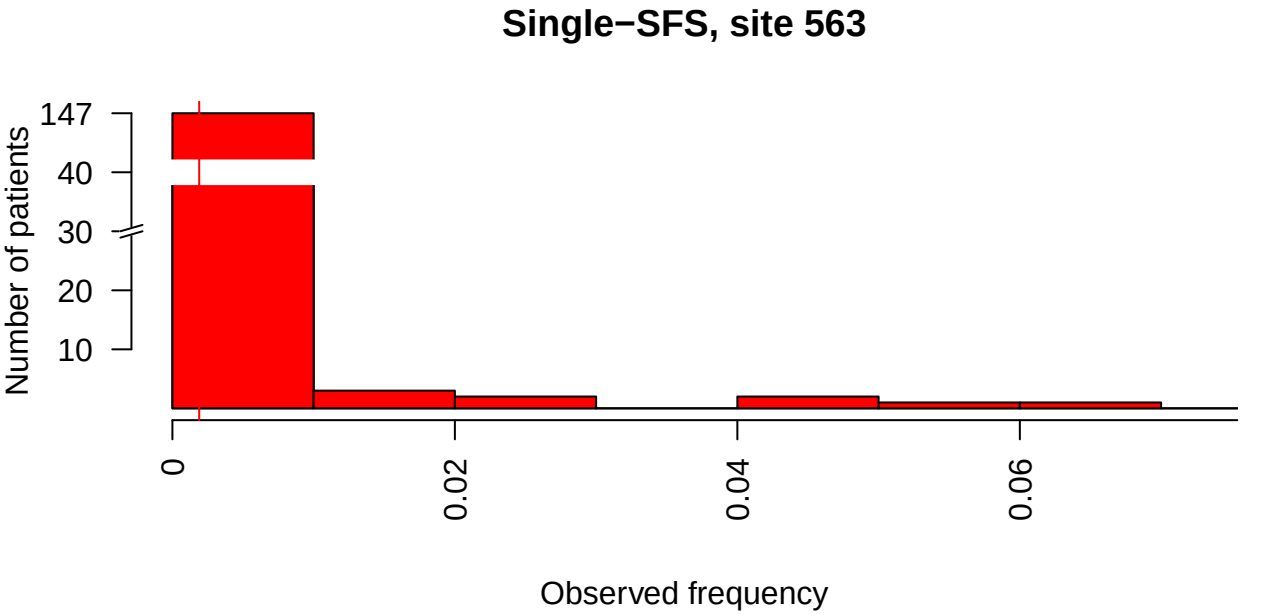

Simulated data, cost 0.0021
Number of patients
112
40
30
20
10
pvalue= 0.372
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
0.24
0.26
0.28
0.3
0.32
0.34
0.36
0.38
0.4
0.42
0.44
0.46
0.48
0.5
0.52
0.54
0.56
0.58
0.6
0.62
0.64
0.66
0.68
0.7
0.72
0.74
0.76
0.78
0.8
0.82
0.84
0.86
0.88
0.9
0.92
Observed frequency

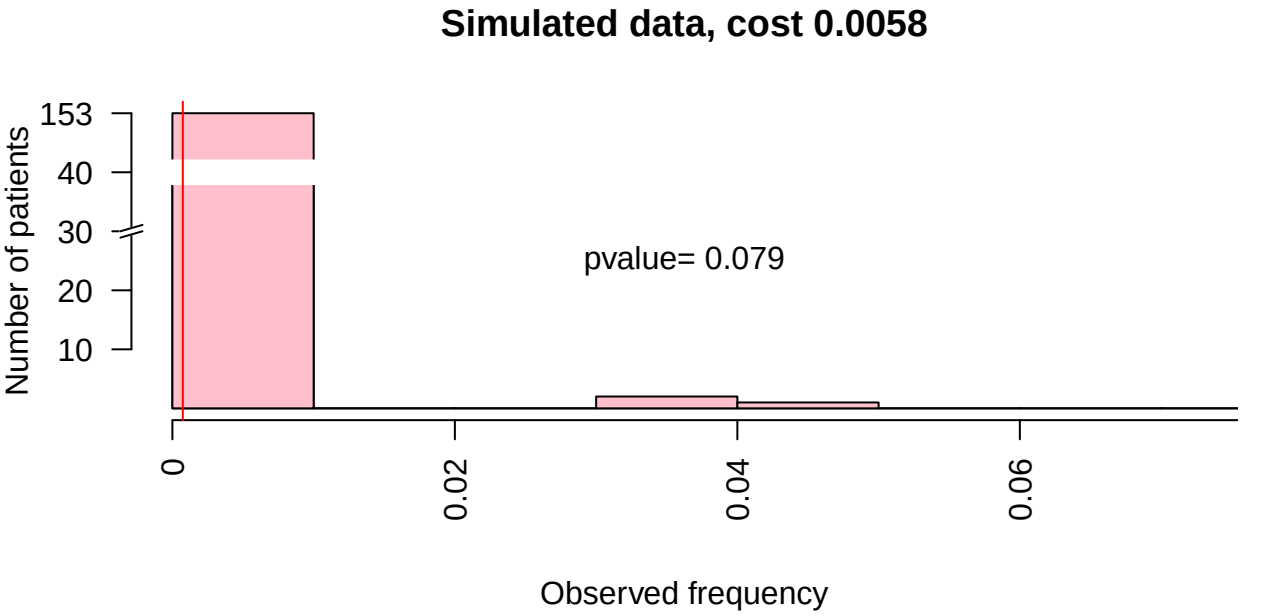

Single−SFS, site 559
Number of patients
152
40
30
20
10
0
0.02
0.04
0.06
0.08
Observed frequency

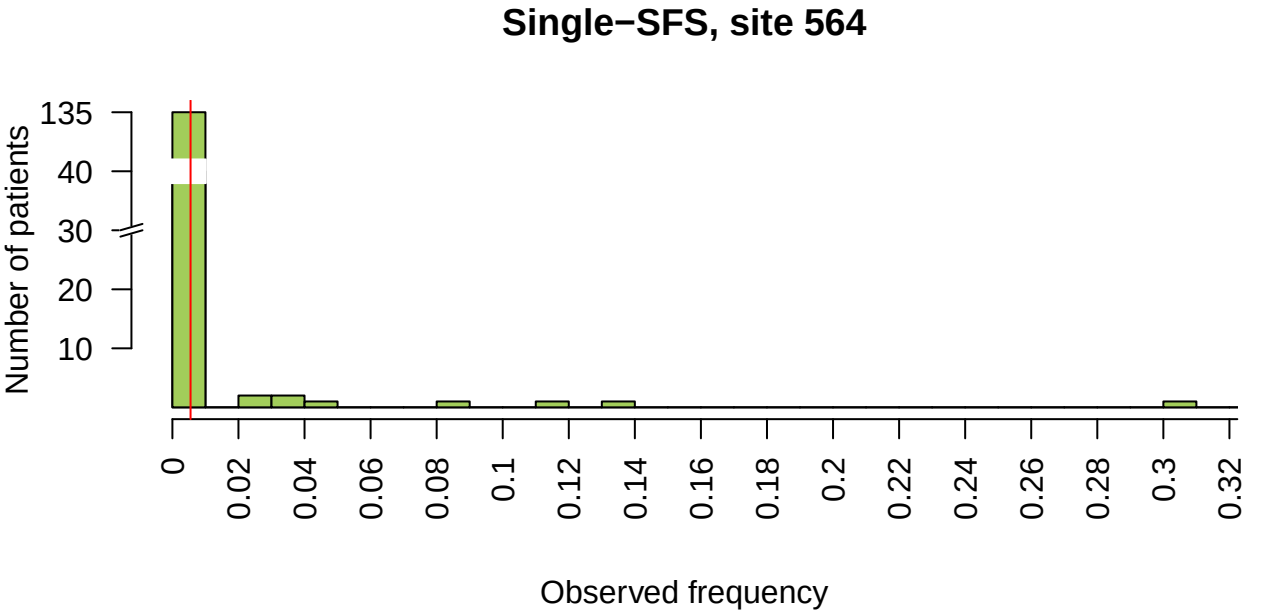

Simulated data, cost 0.0069
Number of patients
156
40
30
20
10
pvalue= 0.205
0
0.02
0.04
0.06
0.08
Observed frequency

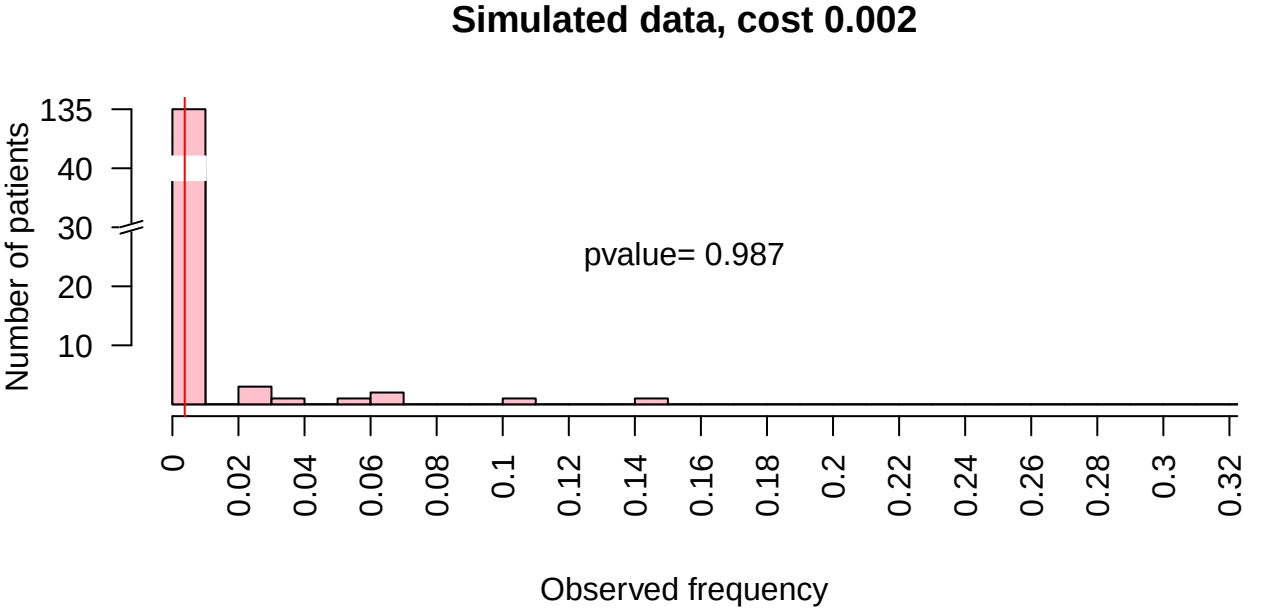

Single−SFS, site 562
Number of patients
155
40
30
20
10
0
0.02
Observed frequency

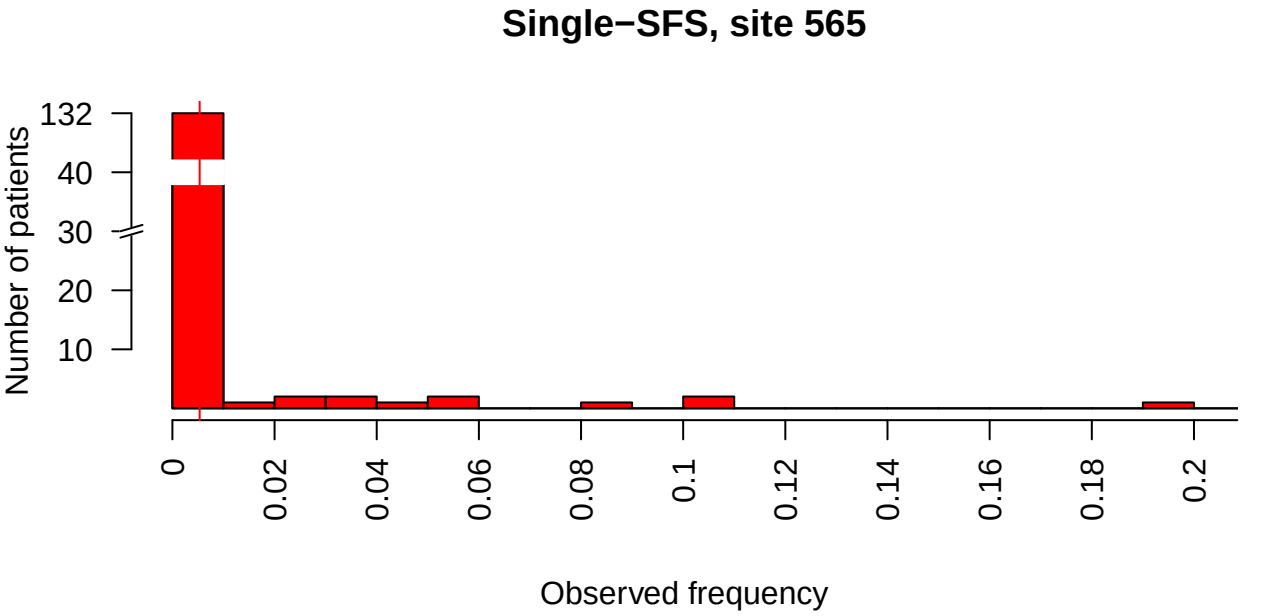

Simulated data, cost 0.2311
Number of patients
156
40
30
20
10
pvalue= 0.56
0
0.02
Observed frequency

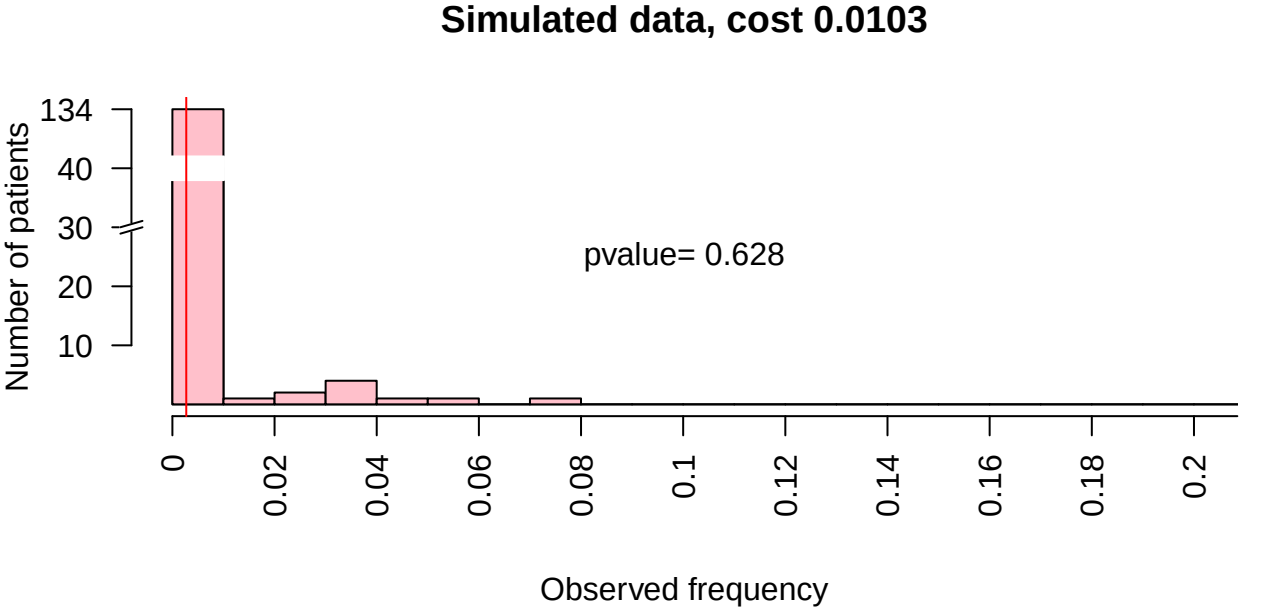

Single−SFS, site 563
Number of patients
147
40
30
20
10
0
0.02
0.04
0.06
Observed frequency

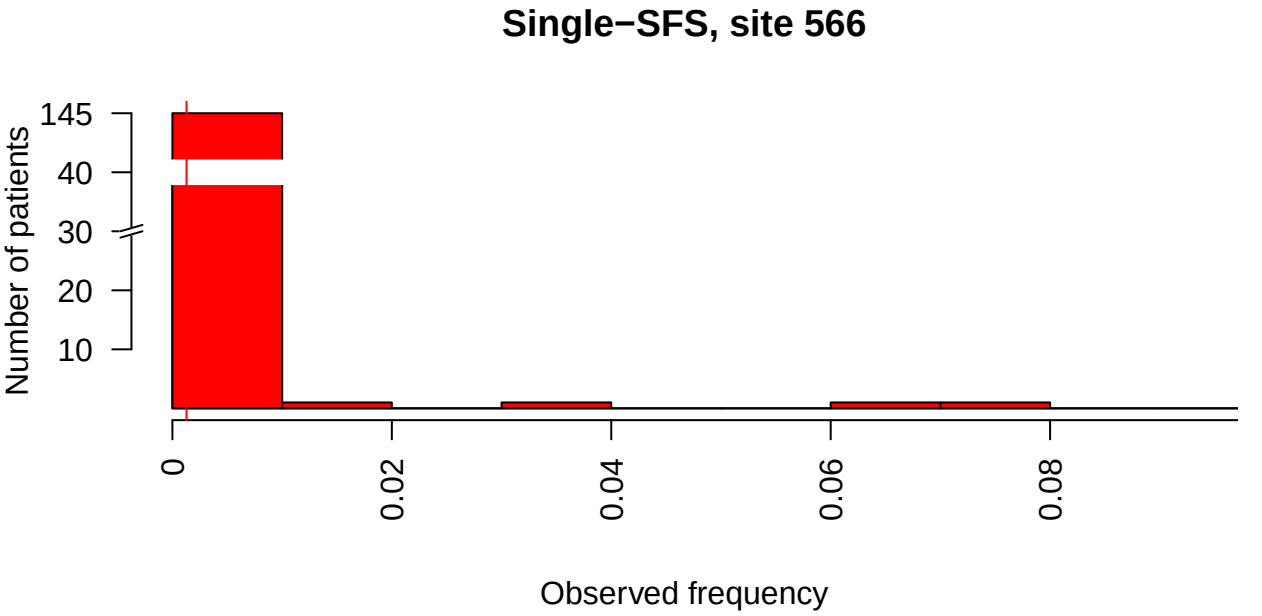

Simulated data, cost 0.0058
Number of patients
153
40
30
20
10
pvalue= 0.079
0
0.02
0.04
0.06
Observed frequency

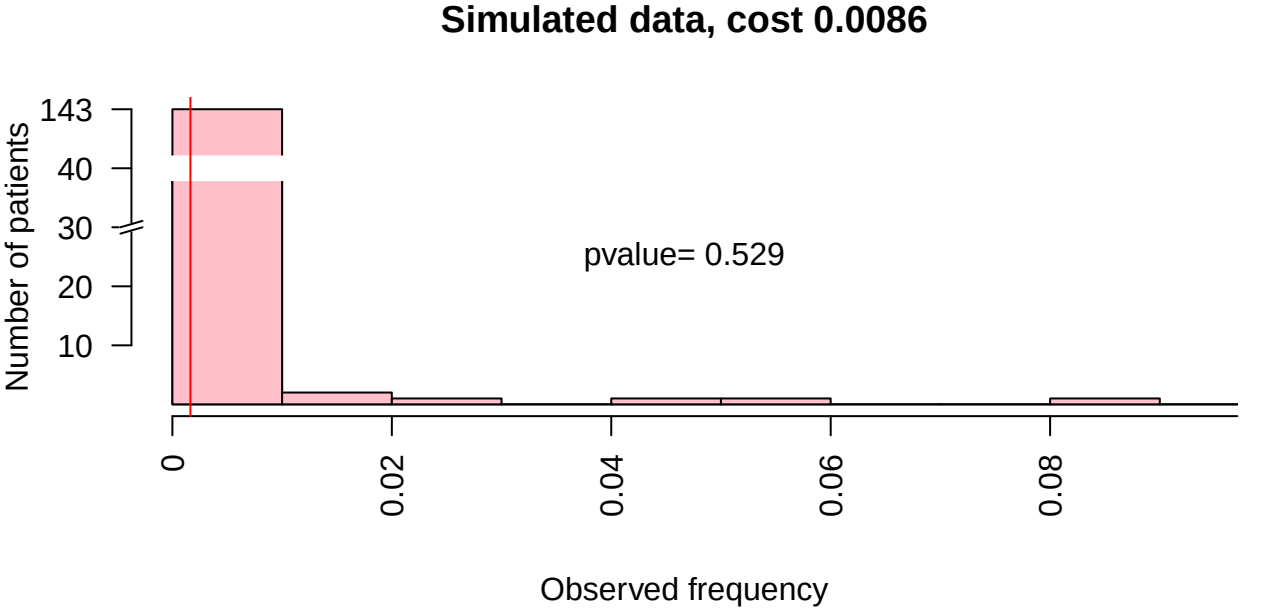

Single−SFS, site 564
Number of patients
135
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
0.24
0.26
0.28
0.3
0.32
Observed frequency

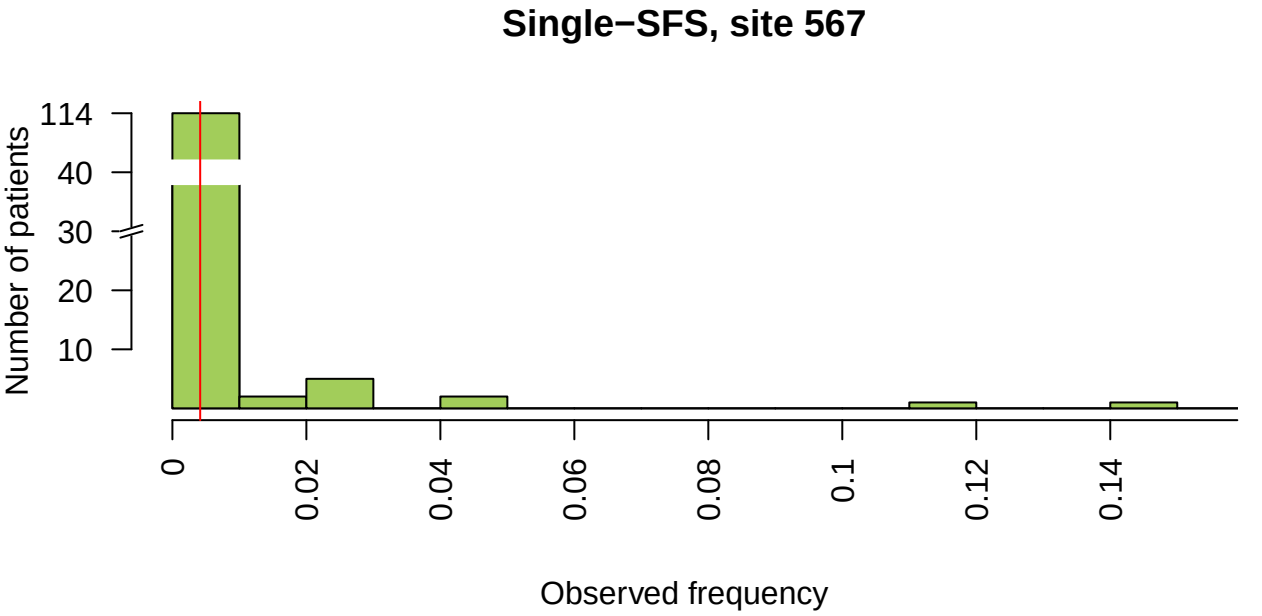

Simulated data, cost 0.002
Number of patients
135
40
30
20
10
pvalue= 0.987
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
0.24
0.26
0.28
0.3
0.32
Observed frequency

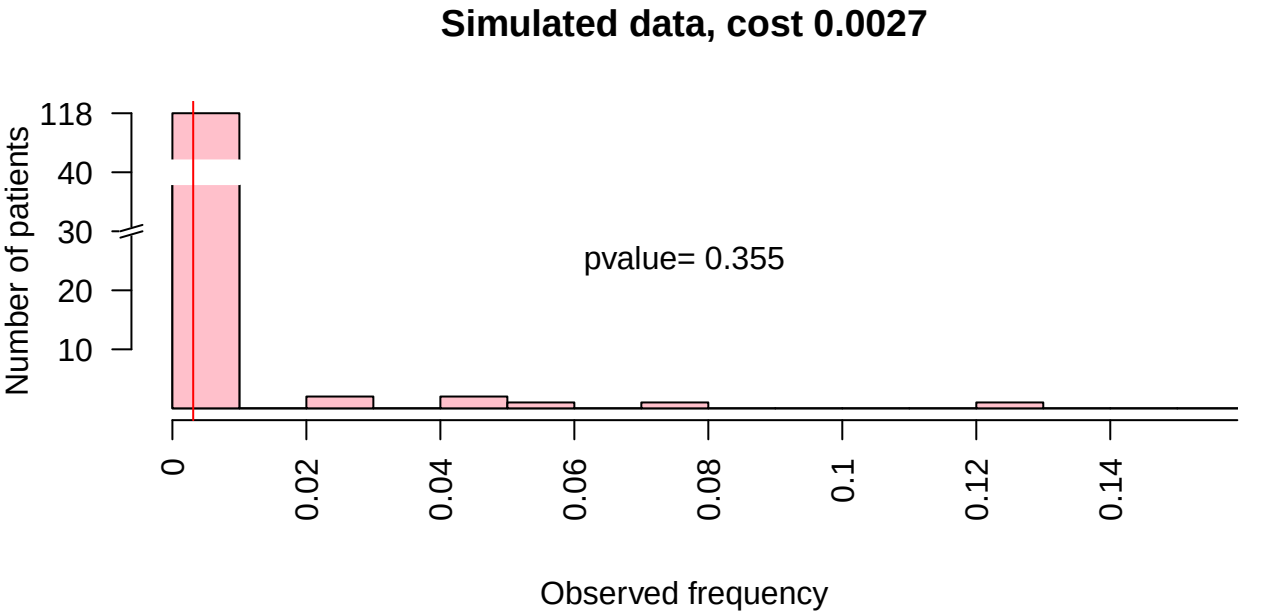

Single−SFS, site 565
Number of patients
132
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
Observed frequency

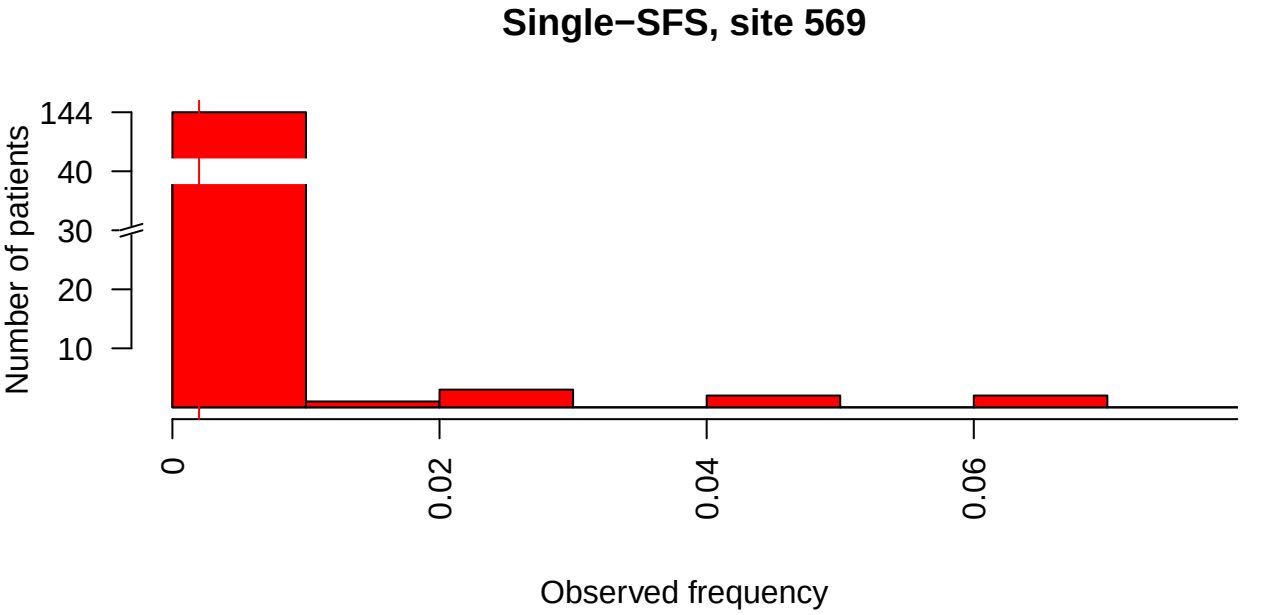

Simulated data, cost 0.0103
Number of patients
134
40
30
20
10
pvalue= 0.628
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
Observed frequency

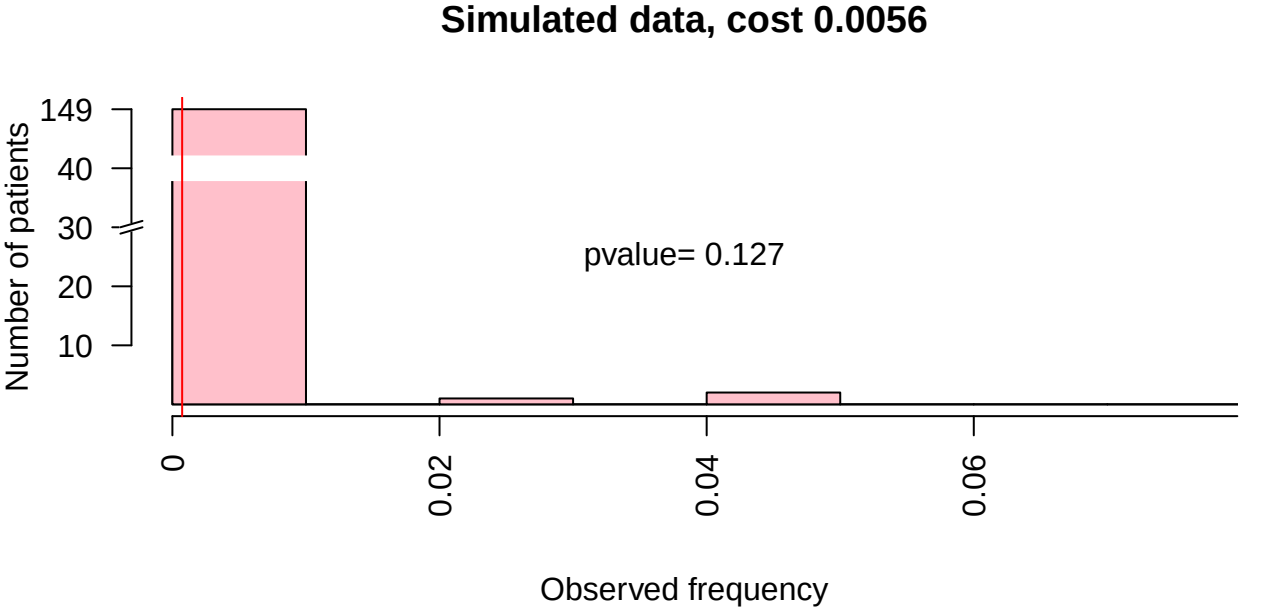

Single−SFS, site 566
Number of patients
145
40
30
20
10
0
0.02
0.04
0.06
0.08
Observed frequency

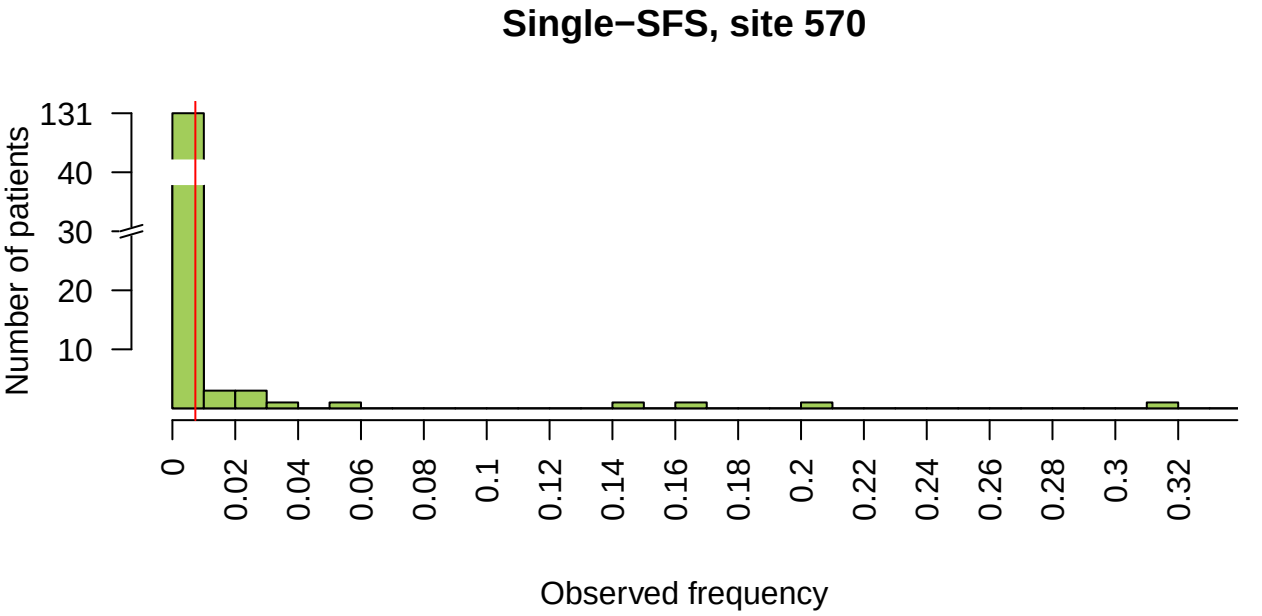

Simulated data, cost 0.0086
Number of patients
143
40
30
20
10
pvalue= 0.529
0
0.02
0.04
0.06
0.08
Observed frequency

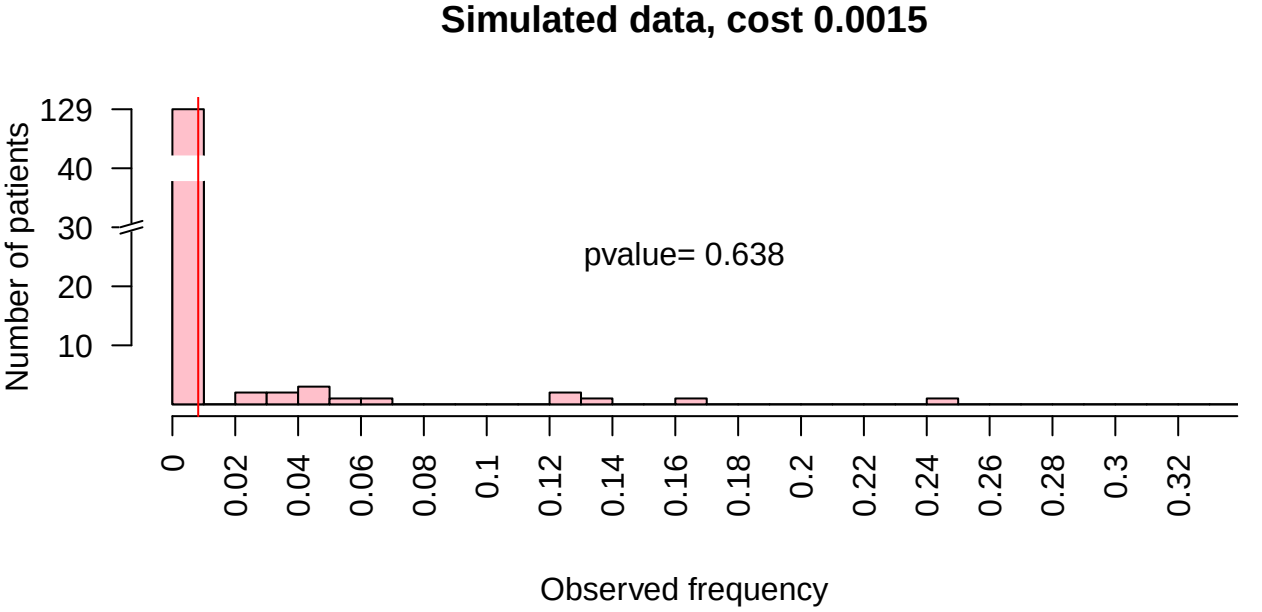

Single−SFS, site 567
Number of patients
114
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
Observed frequency

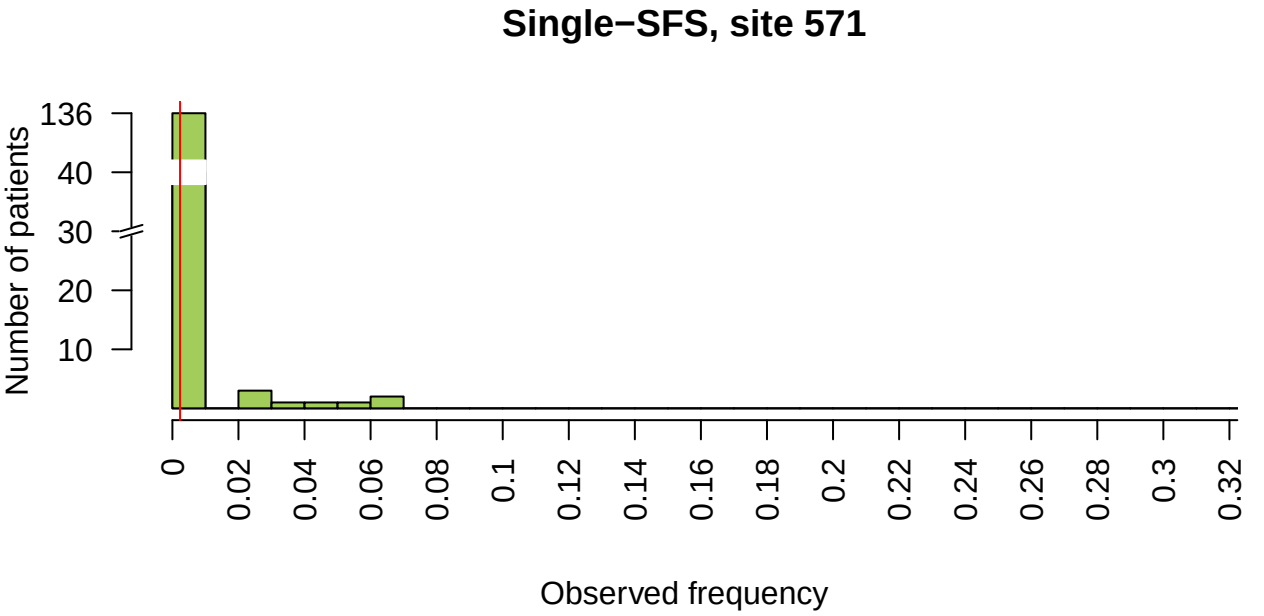

Simulated data, cost 0.0027
Number of patients
118
40
30
20
10
pvalue= 0.355
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
Observed frequency

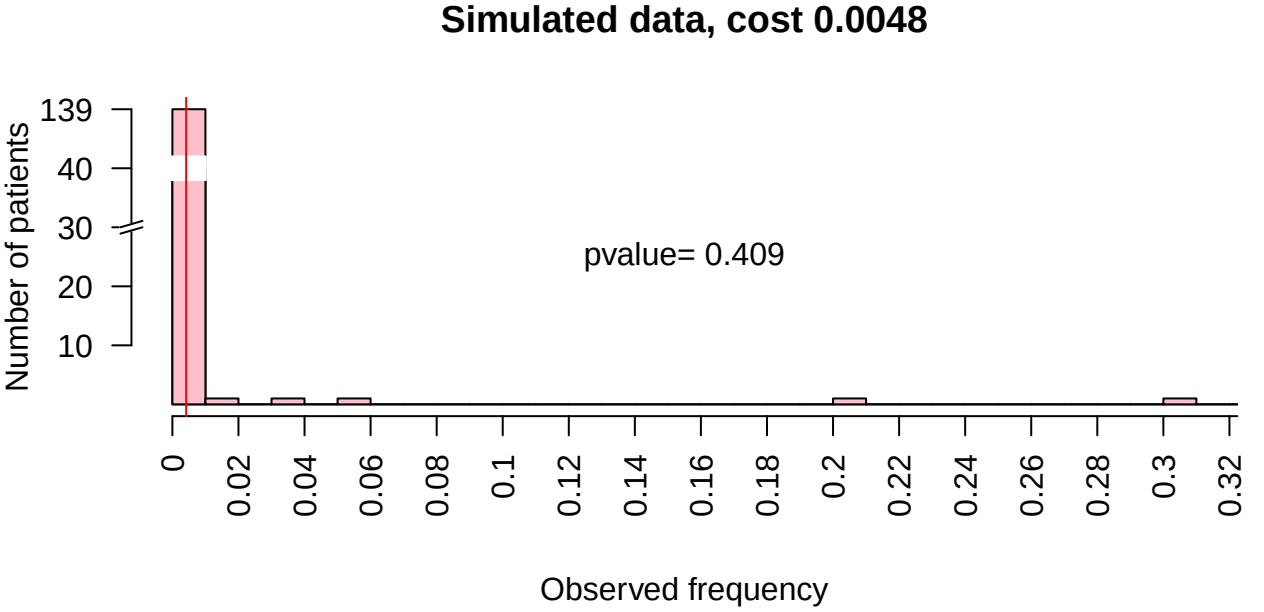

Single−SFS, site 569
Number of patients
144
40
30
20
10
0
0.02
0.04
0.06
Observed frequency

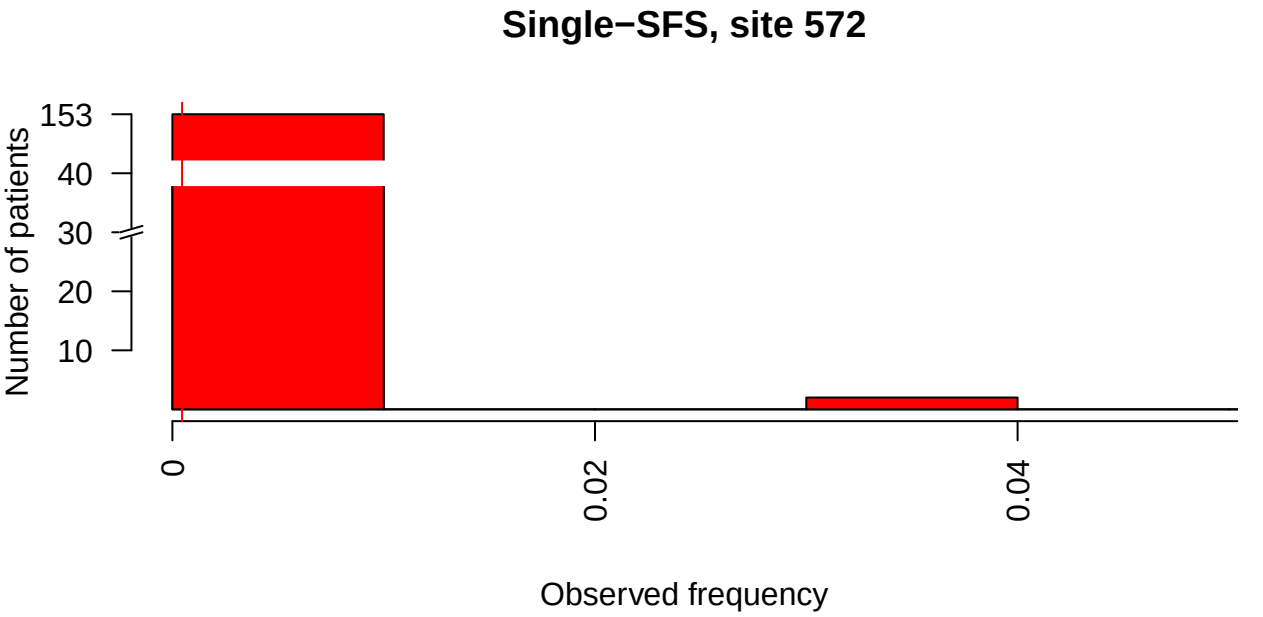

Simulated data, cost 0.0056
Number of patients
149
40
30
20
10
pvalue= 0.127
0
0.02
0.04
0.06
Observed frequency

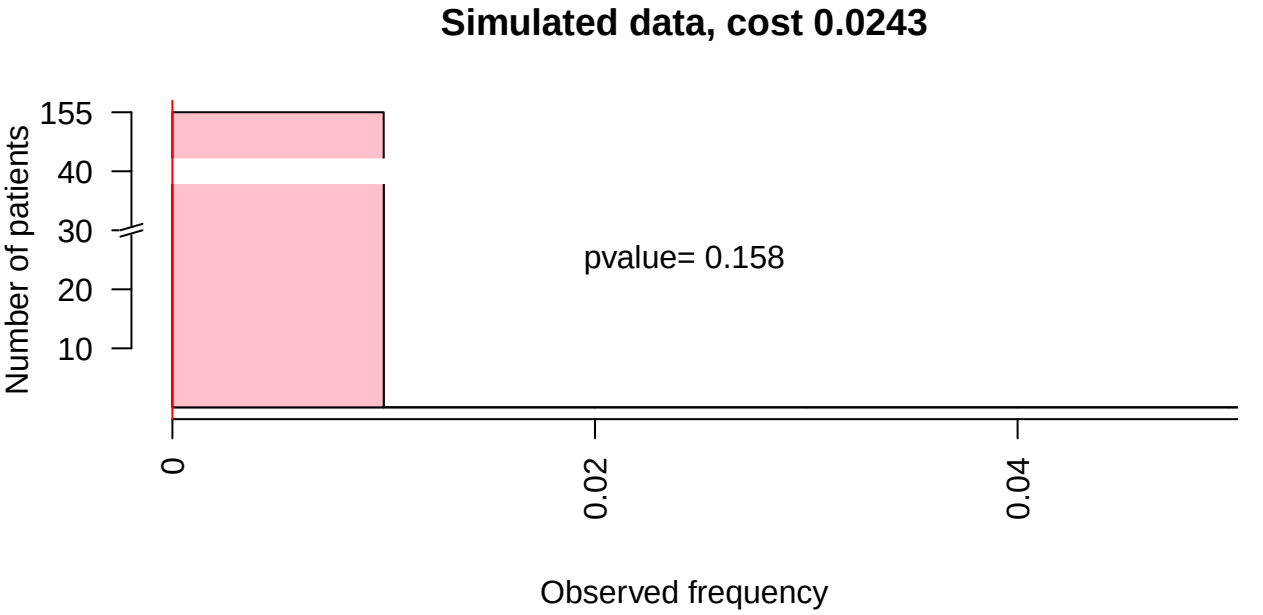

Single−SFS, site 570
Number of patients
131
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
0.24
0.26
0.28
0.3
0.32
Observed frequency

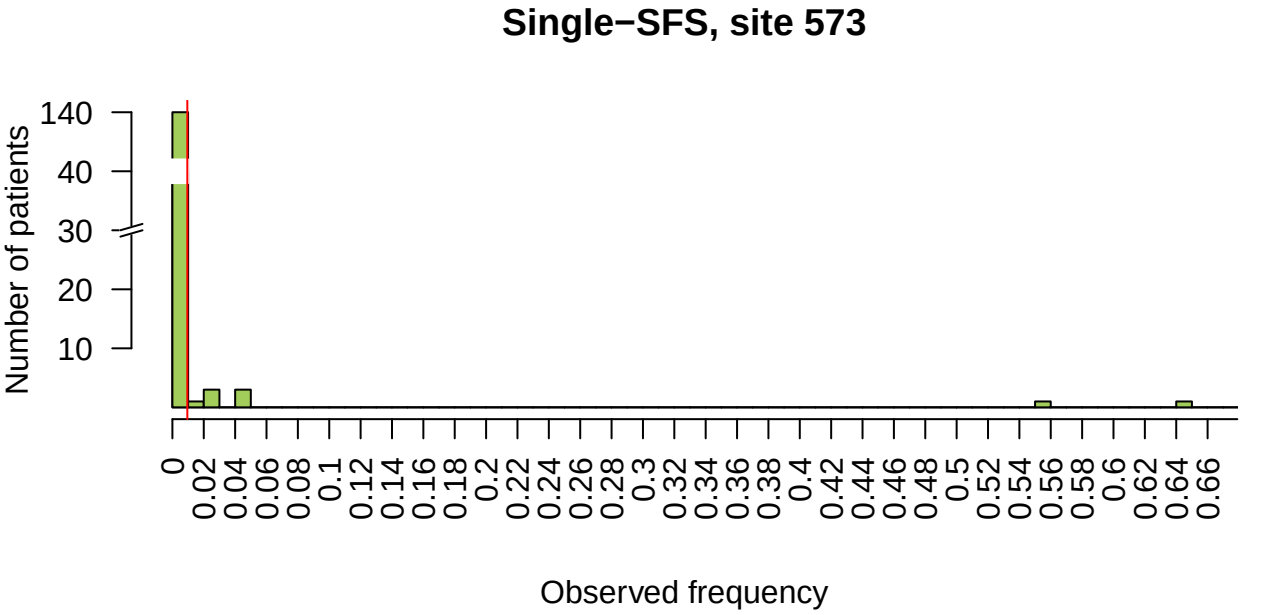

Simulated data, cost 0.0015
Number of patients
129
40
30
20
10
pvalue= 0.638
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
0.24
0.26
0.28
0.3
0.32
Observed frequency

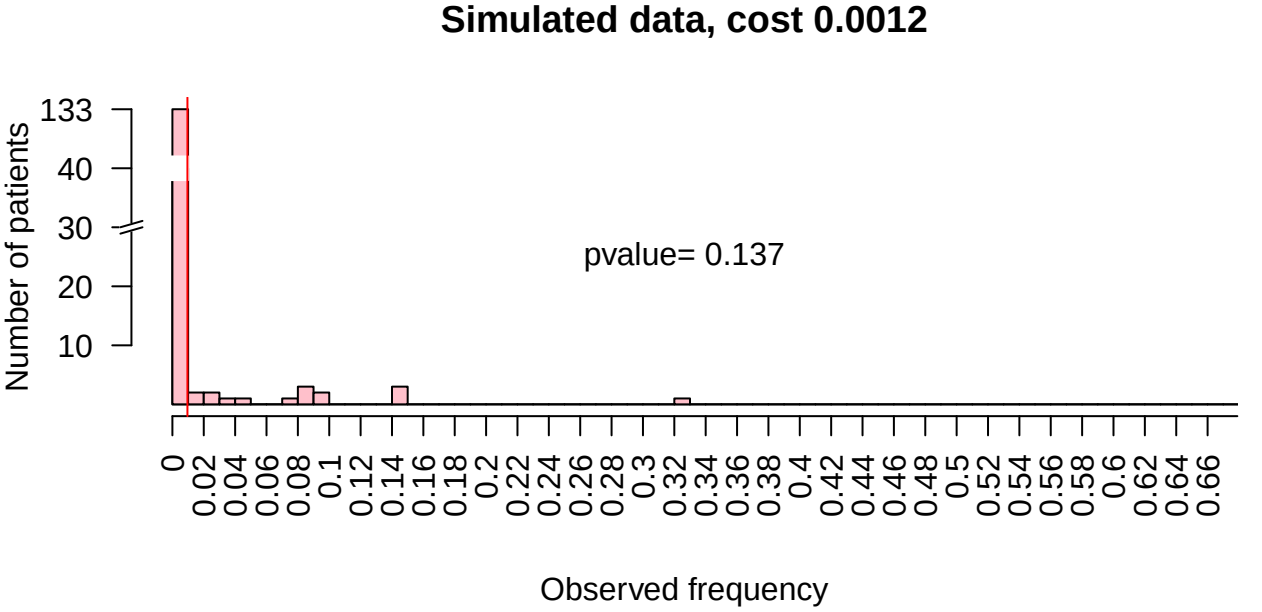

Single−SFS, site 571
Number of patients
136
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
0.24
0.26
0.28
0.3
0.32
Observed frequency

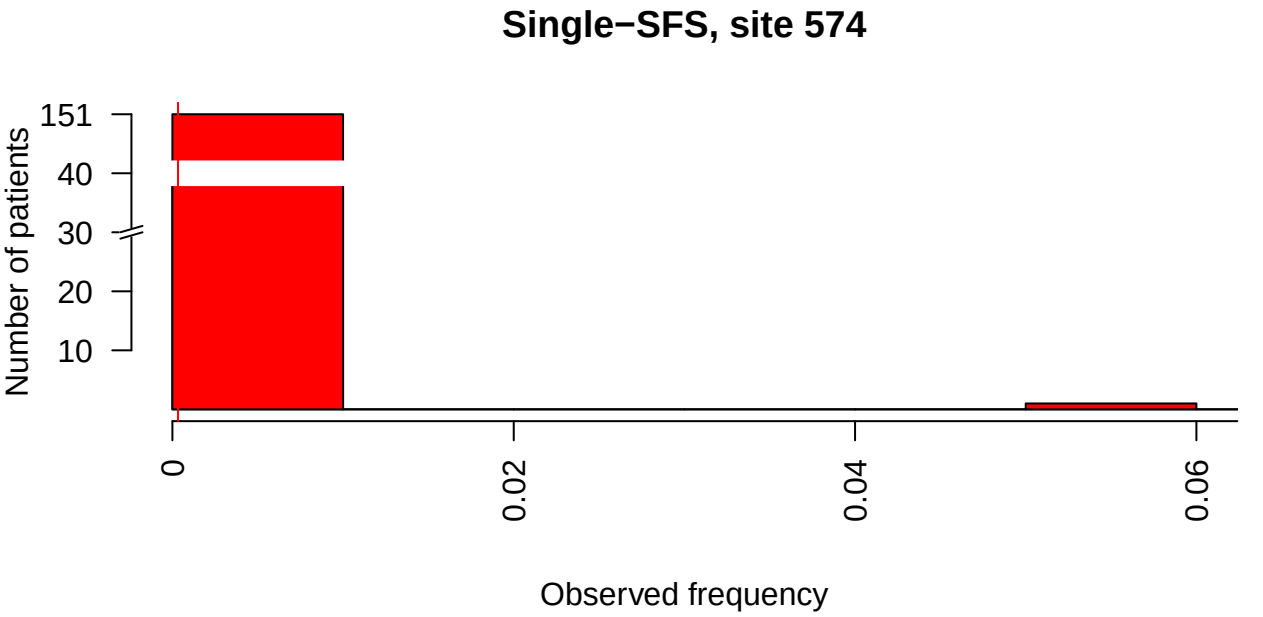

Simulated data, cost 0.0048
Number of patients
139
40
30
20
10
pvalue= 0.409
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
0.24
0.26
0.28
0.3
0.32
Observed frequency

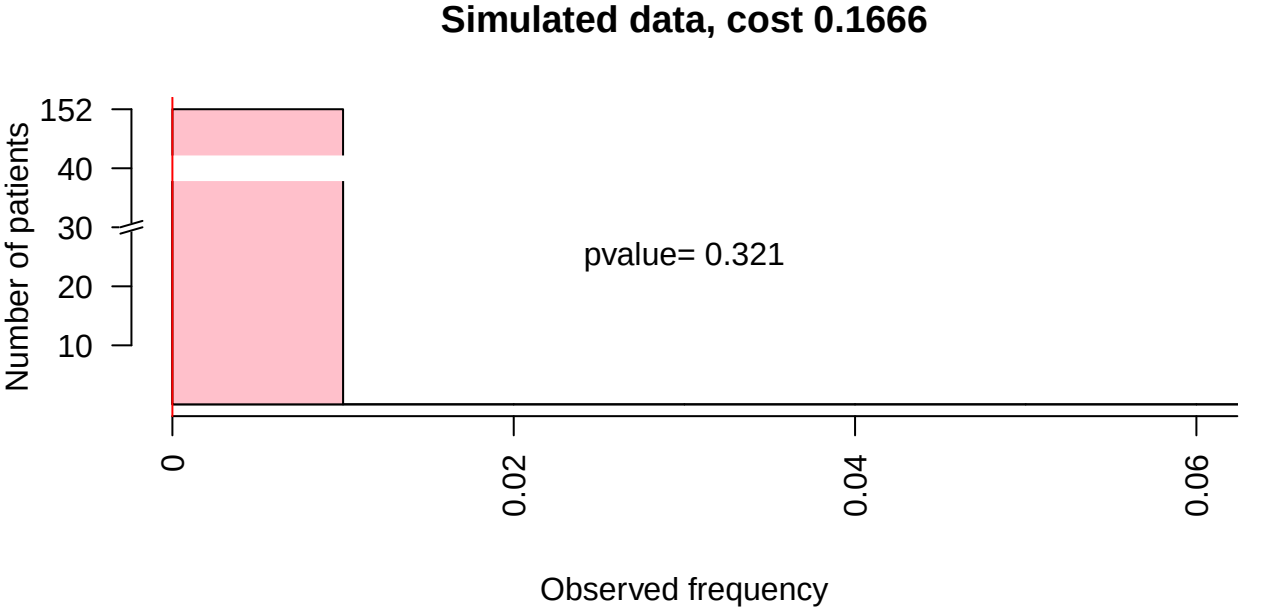

Single−SFS, site 572
Number of patients
153
40
30
20
10
0
0.02
0.04
Observed frequency

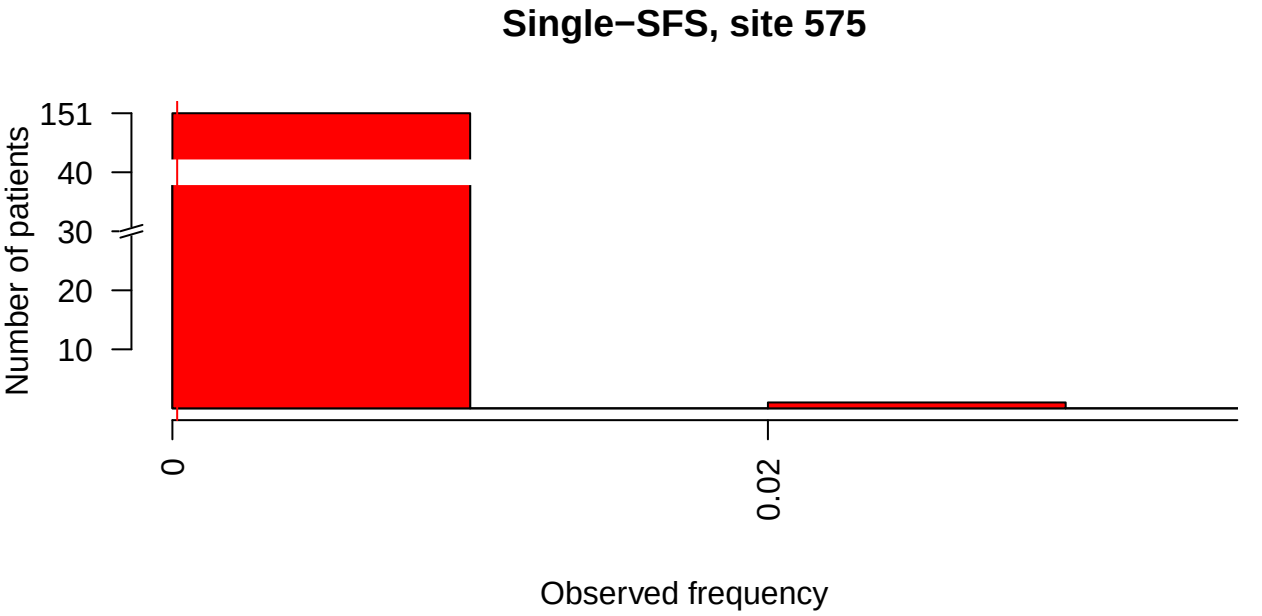

Simulated data, cost 0.0243
Number of patients
155
40
30
20
10
pvalue= 0.158
0
0.02
0.04
Observed frequency

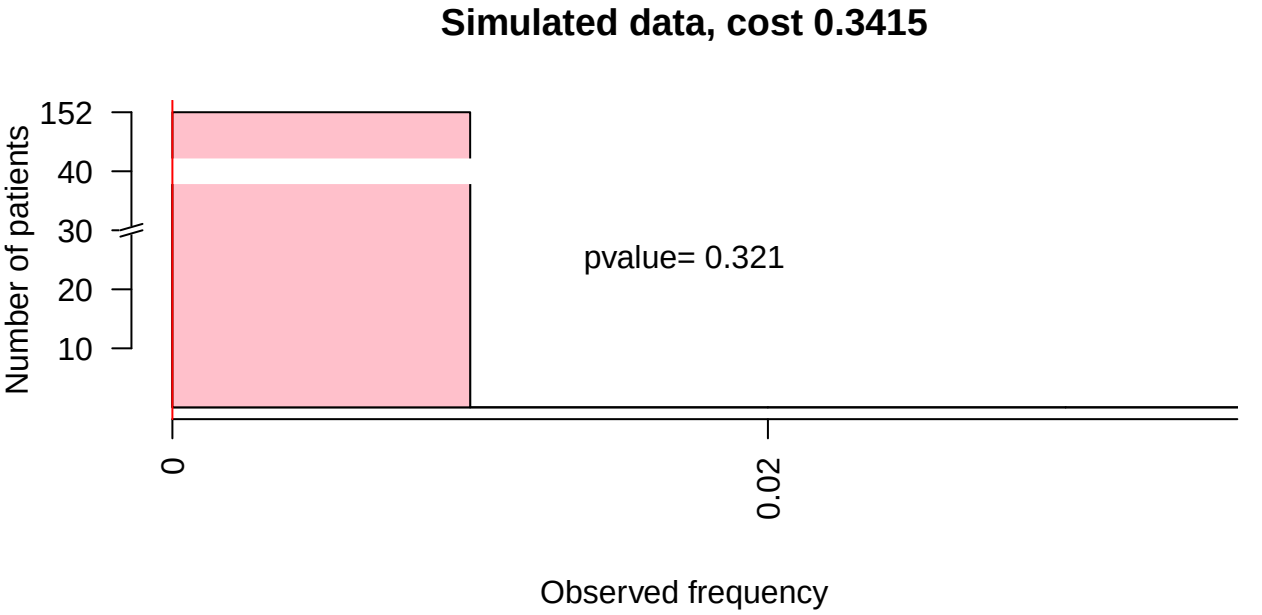

Single−SFS, site 573
Number of patients
140
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
0.24
0.26
0.28
0.3
0.32
0.34
0.36
0.38
0.4
0.42
0.44
0.46
0.48
0.5
0.52
0.54
0.56
0.58
0.6
0.62
0.64
0.66
Observed frequency

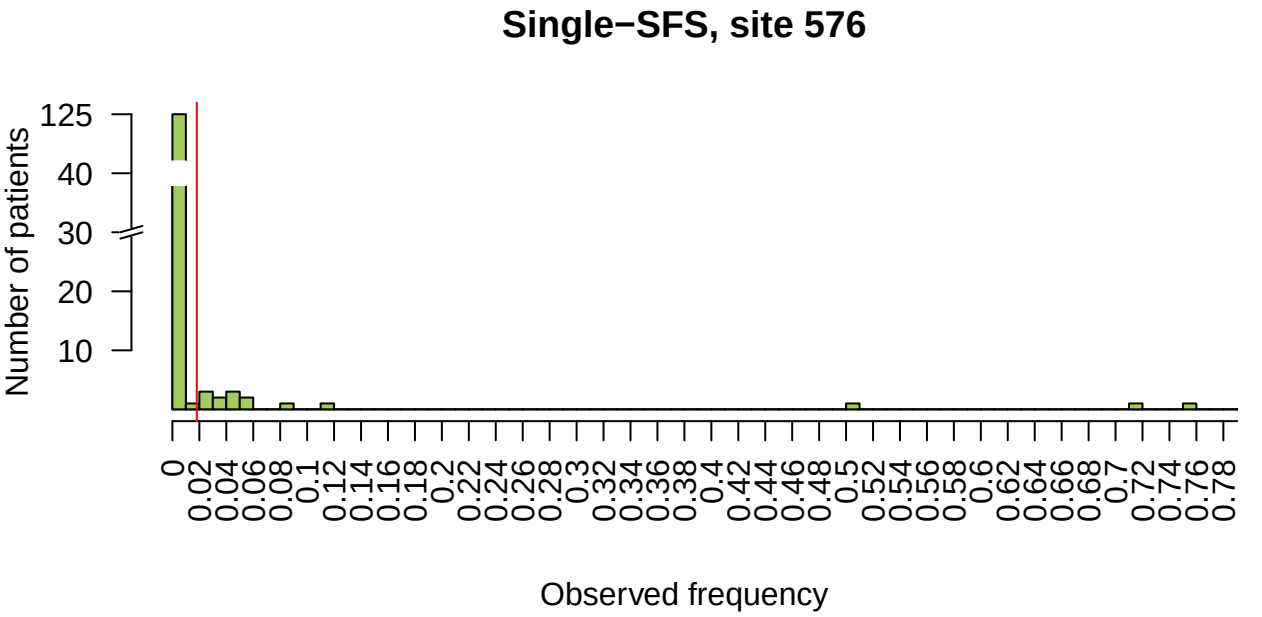

Simulated data, cost 0.0012
Number of patients
133
40
30
20
10
pvalue= 0.137
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
0.24
0.26
0.28
0.3
0.32
0.34
0.36
0.38
0.4
0.42
0.44
0.46
0.48
0.5
0.52
0.54
0.56
0.58
0.6
0.62
0.64
0.66
Observed frequency

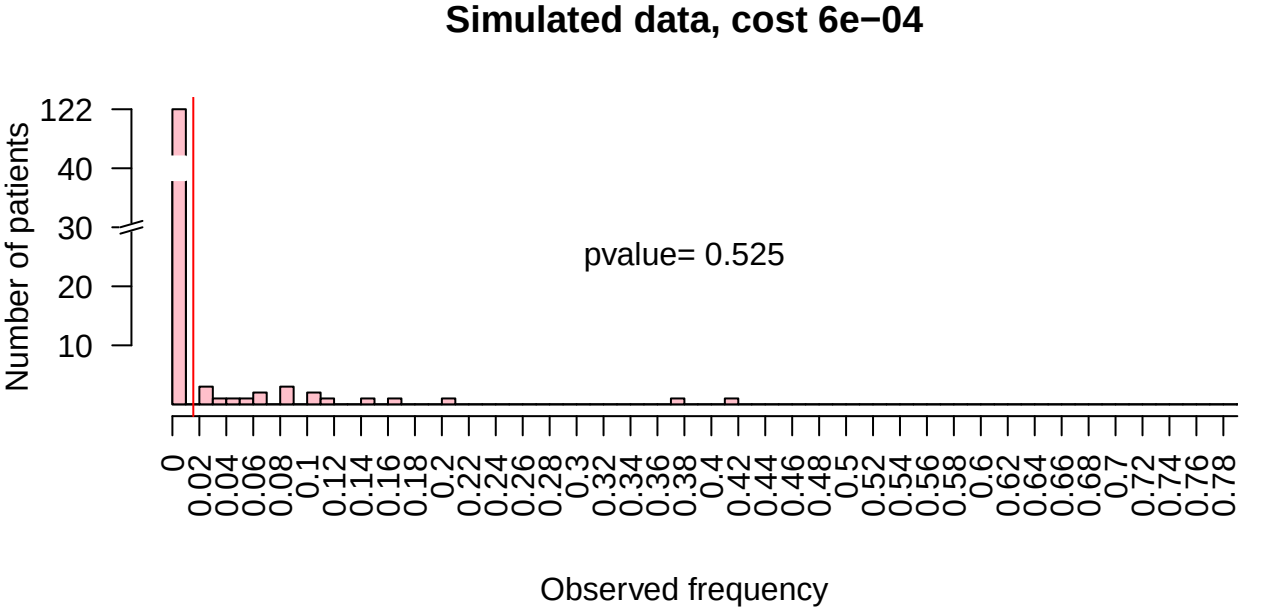

Single−SFS, site 574
Number of patients
151
40
30
20
10
0
0.02
0.04
0.06
Observed frequency

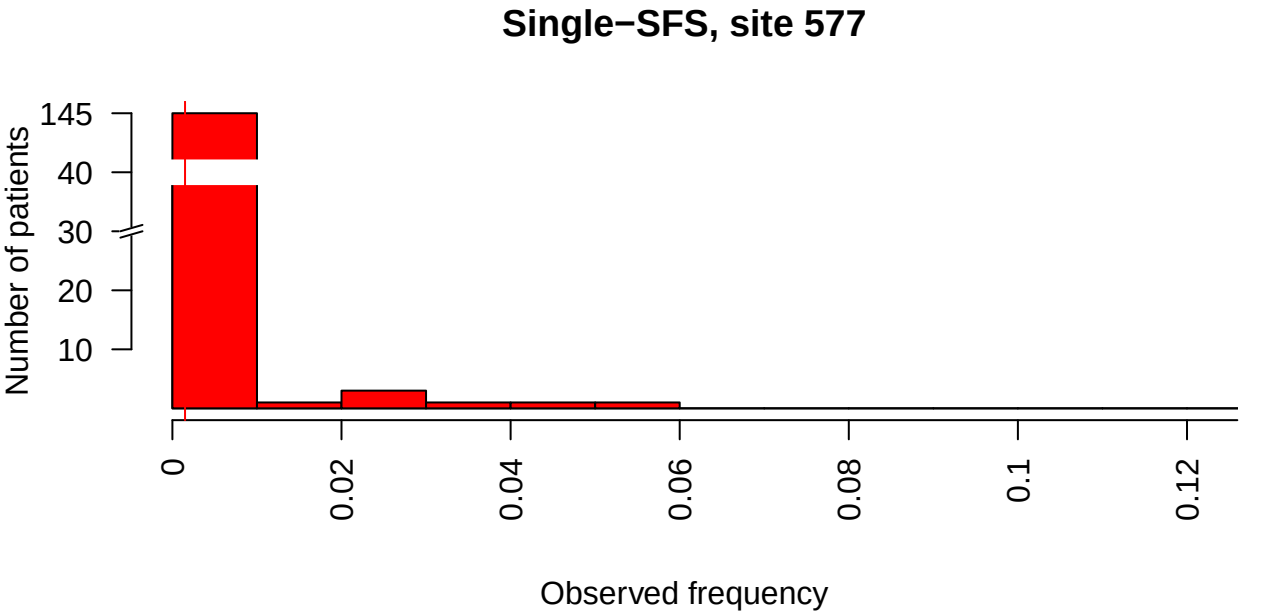

Simulated data, cost 0.1666
Number of patients
152
40
30
20
10
pvalue= 0.321
0
0.02
0.04
0.06
Observed frequency

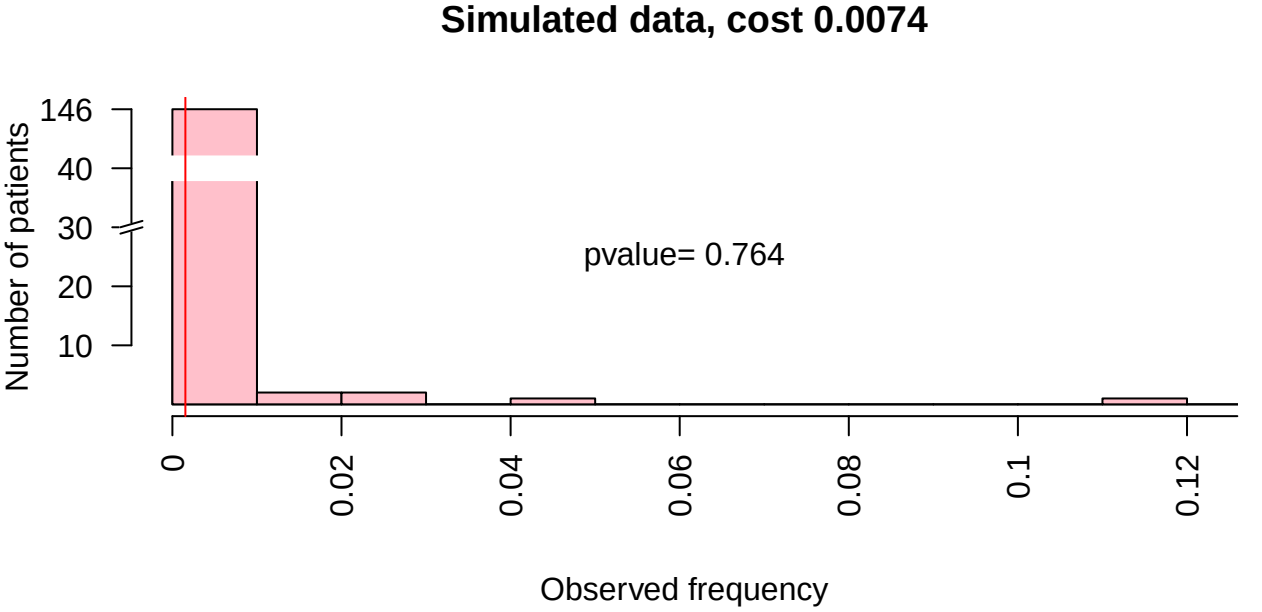

Single−SFS, site 575
Number of patients
151
40
30
20
10
0
0.02
Observed frequency

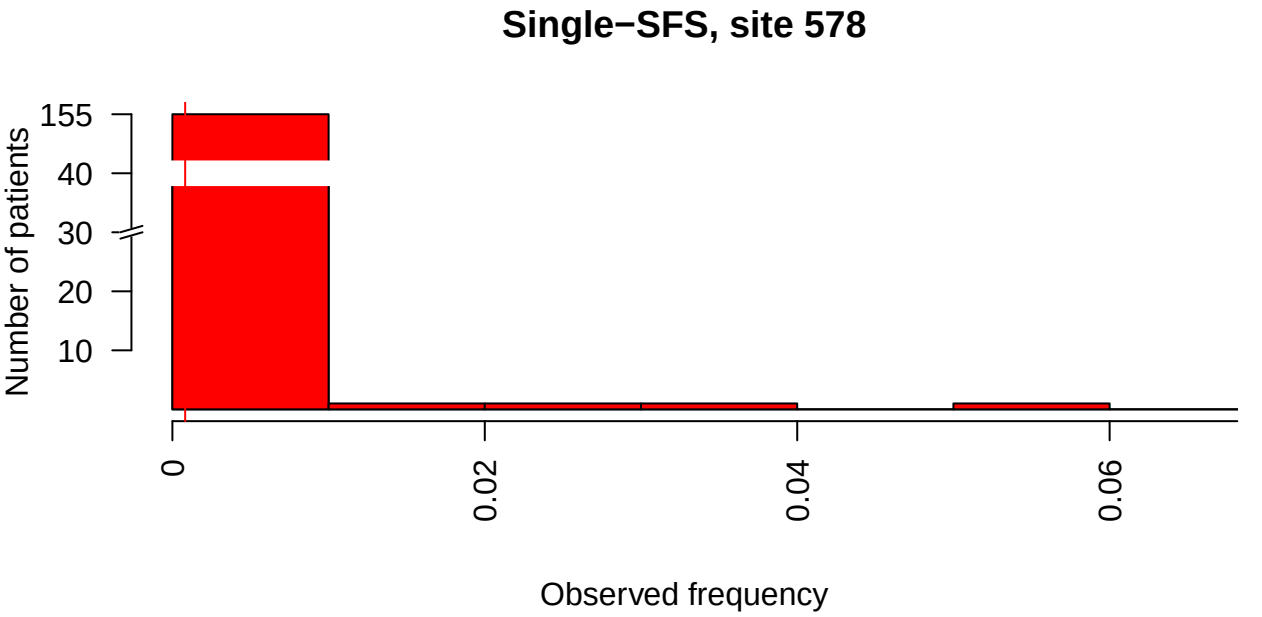

Simulated data, cost 0.3415
Number of patients
152
40
30
20
10
pvalue= 0.321
0
0.02
Observed frequency

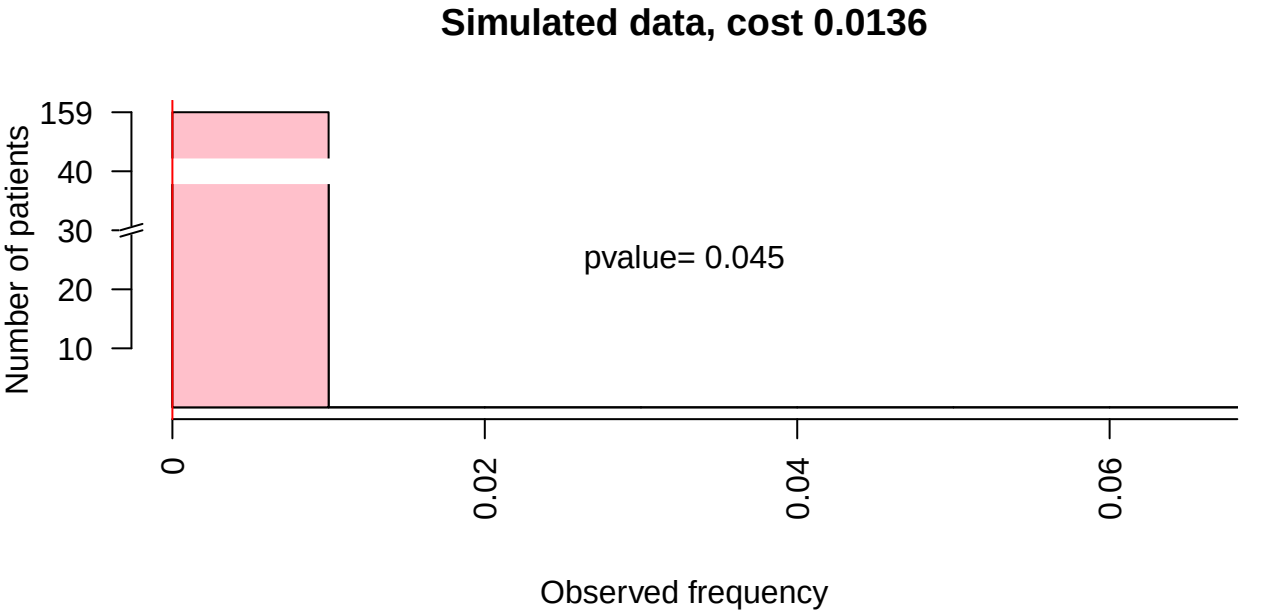

Single−SFS, site 576
Number of patients
125
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
0.24
0.26
0.28
0.3
0.32
0.34
0.36
0.38
0.4
0.42
0.44
0.46
0.48
0.5
0.52
0.54
0.56
0.58
0.6
0.62
0.64
0.66
0.68
0.7
0.72
0.74
0.76
0.78
Observed frequency

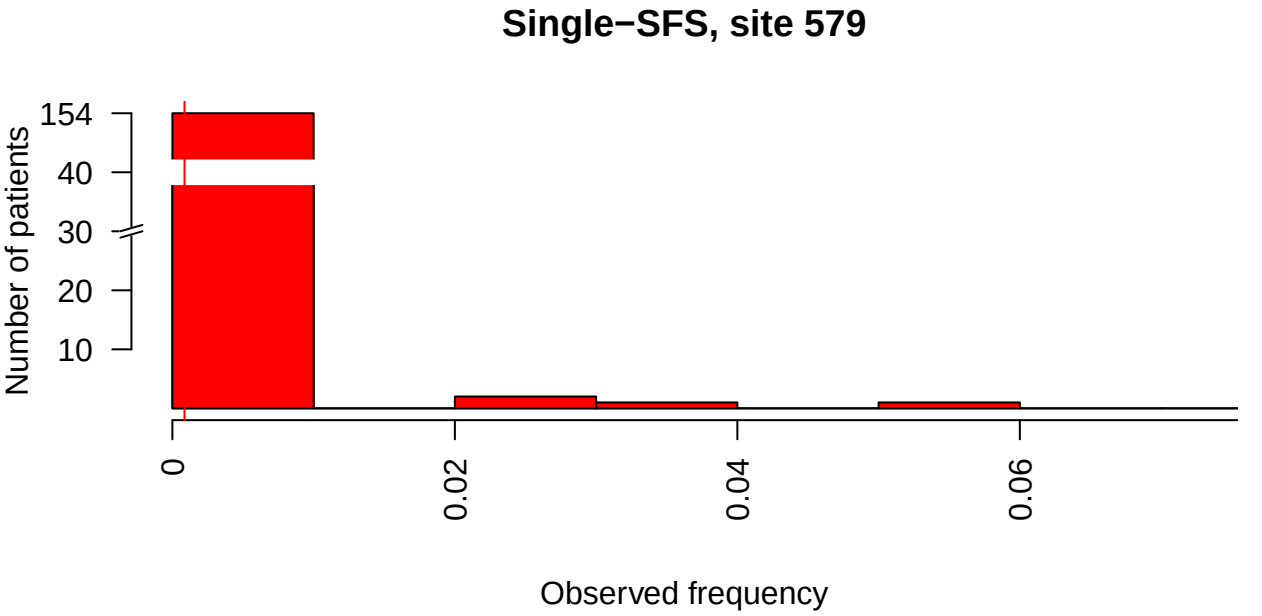

Simulated data, cost 6e−04
Number of patients
122
40
30
20
10
pvalue= 0.525
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
0.24
0.26
0.28
0.3
0.32
0.34
0.36
0.38
0.4
0.42
0.44
0.46
0.48
0.5
0.52
0.54
0.56
0.58
0.6
0.62
0.64
0.66
0.68
0.7
0.72
0.74
0.76
0.78
Observed frequency

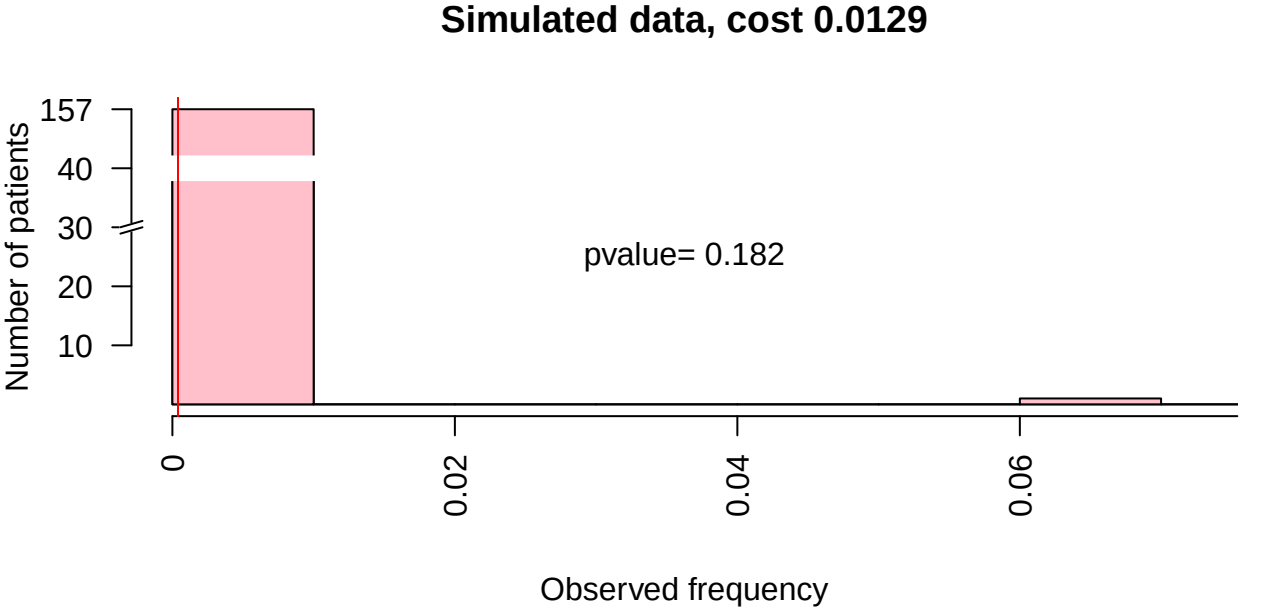

Single−SFS, site 577
Number of patients
145
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
Observed frequency

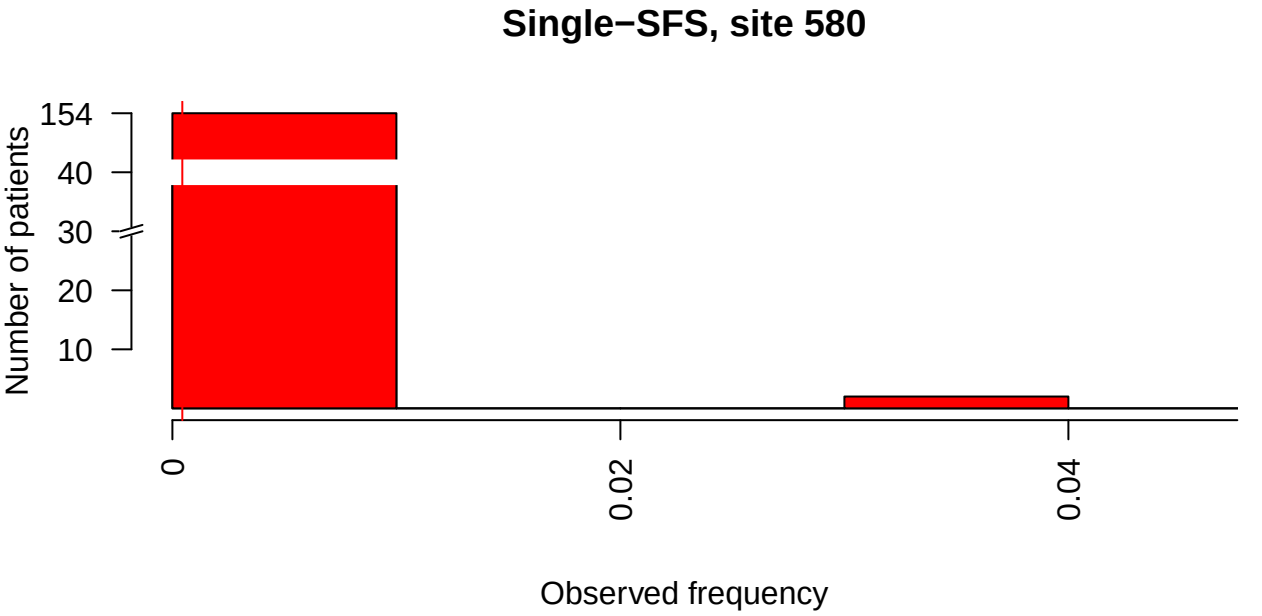

Simulated data, cost 0.0074
Number of patients
146
40
30
20
10
pvalue= 0.764
0
0.02
0.04
0.06
0.08
0.1
0.12
Observed frequency

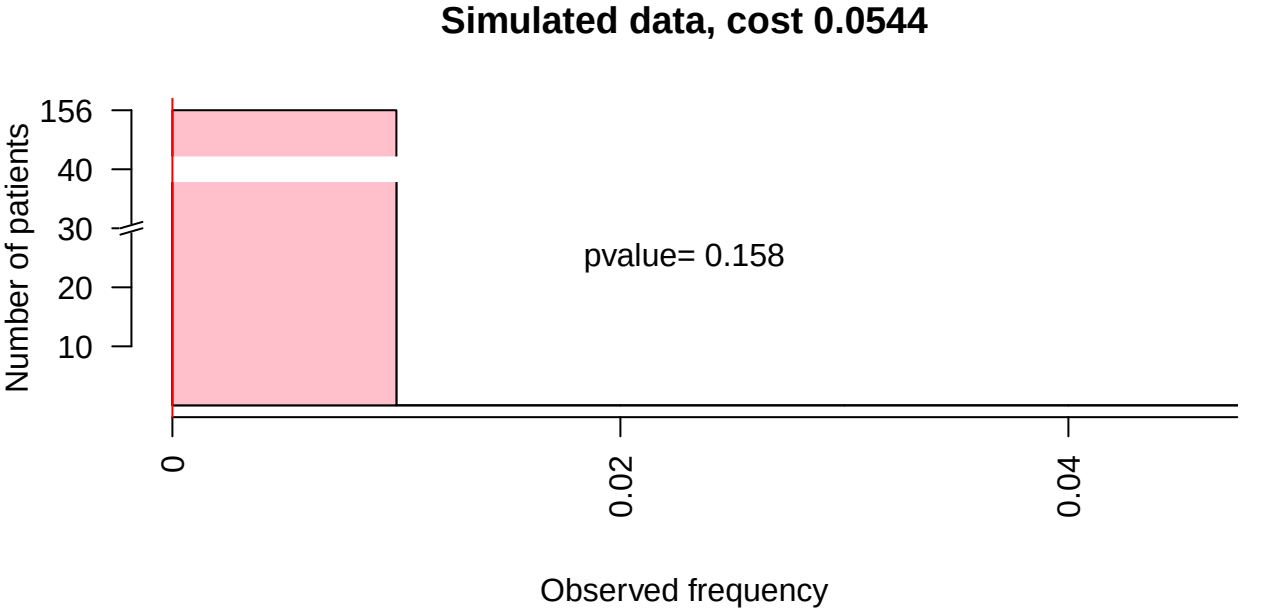

Single−SFS, site 578
Number of patients
155
40
30
20
10
0
0.02
0.04
0.06
Observed frequency

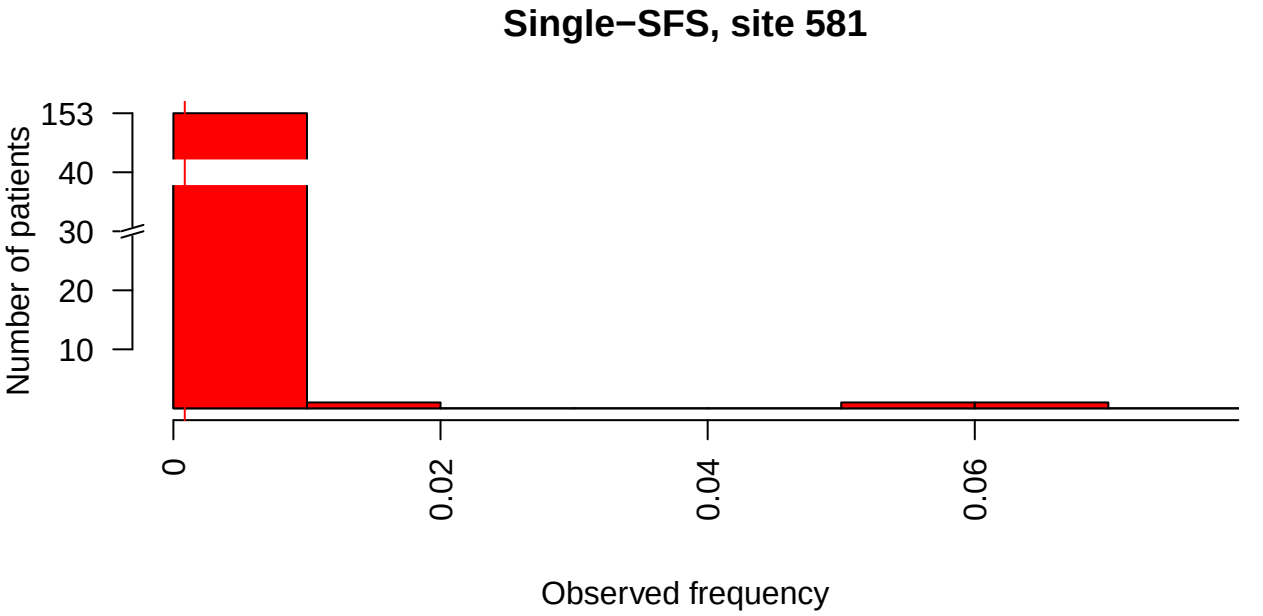

Simulated data, cost 0.0136
Number of patients
159
40
30
20
10
pvalue= 0.045
0
0.02
0.04
0.06
Observed frequency

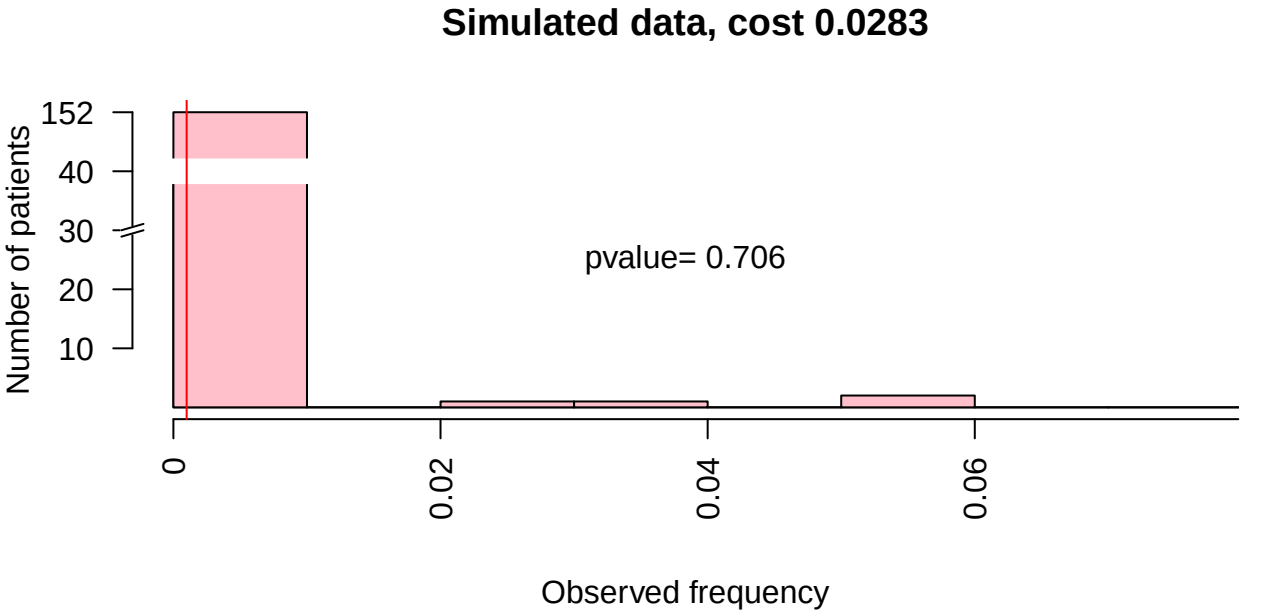

Single−SFS, site 579
Number of patients
154
40
30
20
10
0
0.02
0.04
0.06
Observed frequency

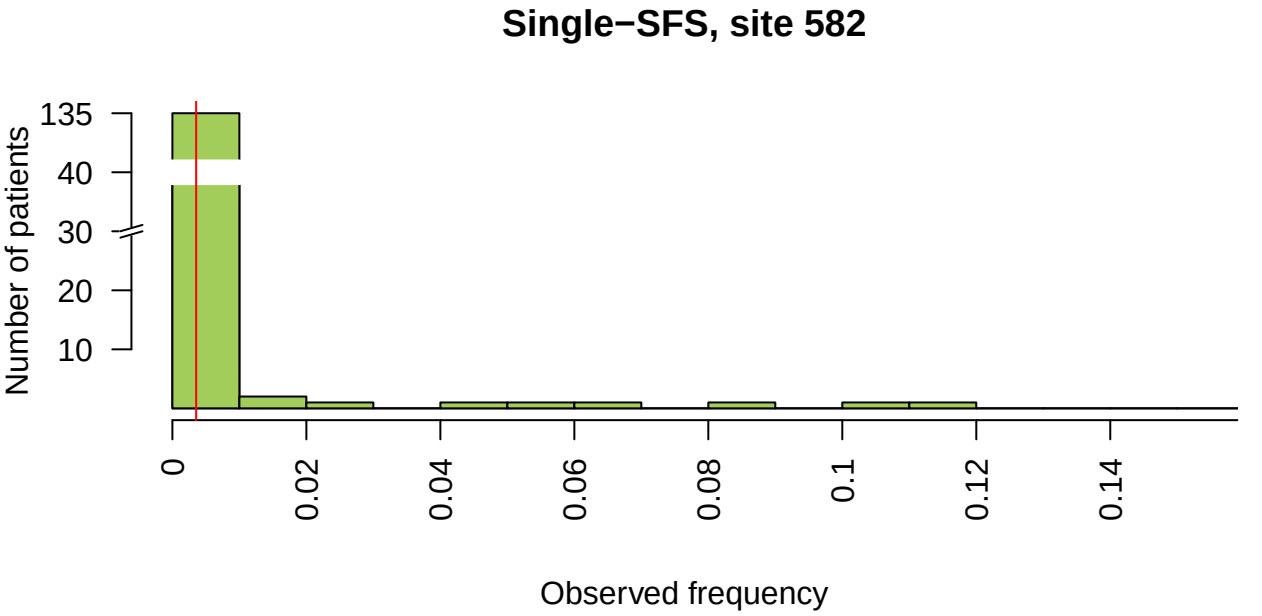

Simulated data, cost 0.0129
Number of patients
157
40
30
20
10
pvalue= 0.182
0
0.02
0.04
0.06
Observed frequency

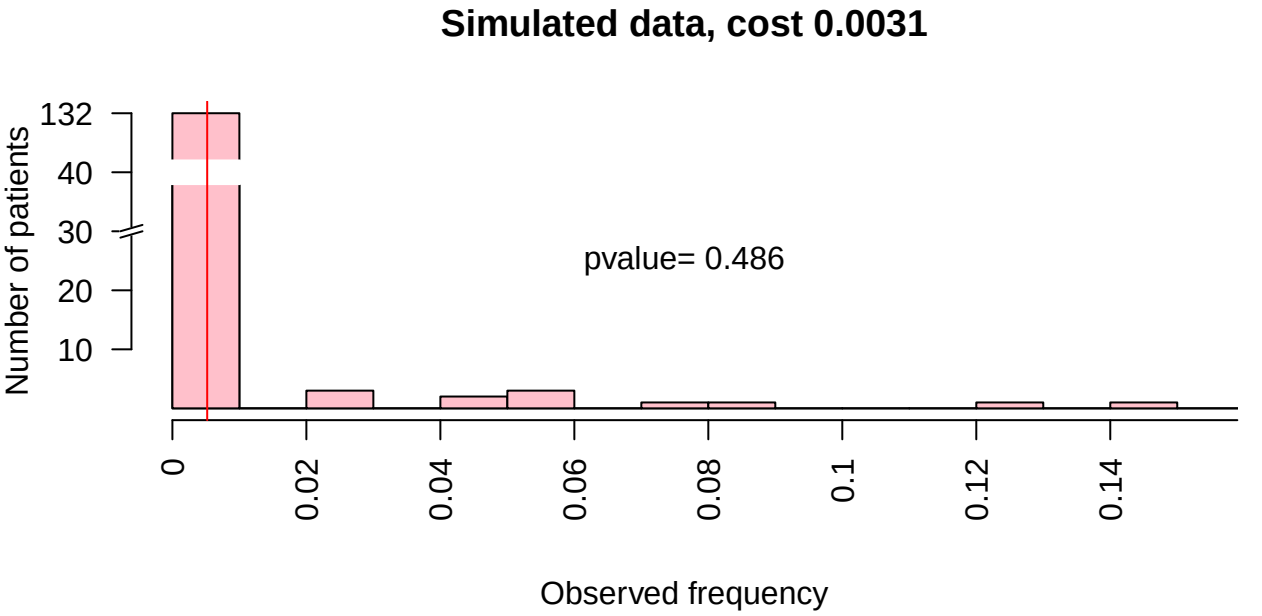

Single−SFS, site 580
Number of patients
154
40
30
20
10
0
0.02
0.04
Observed frequency

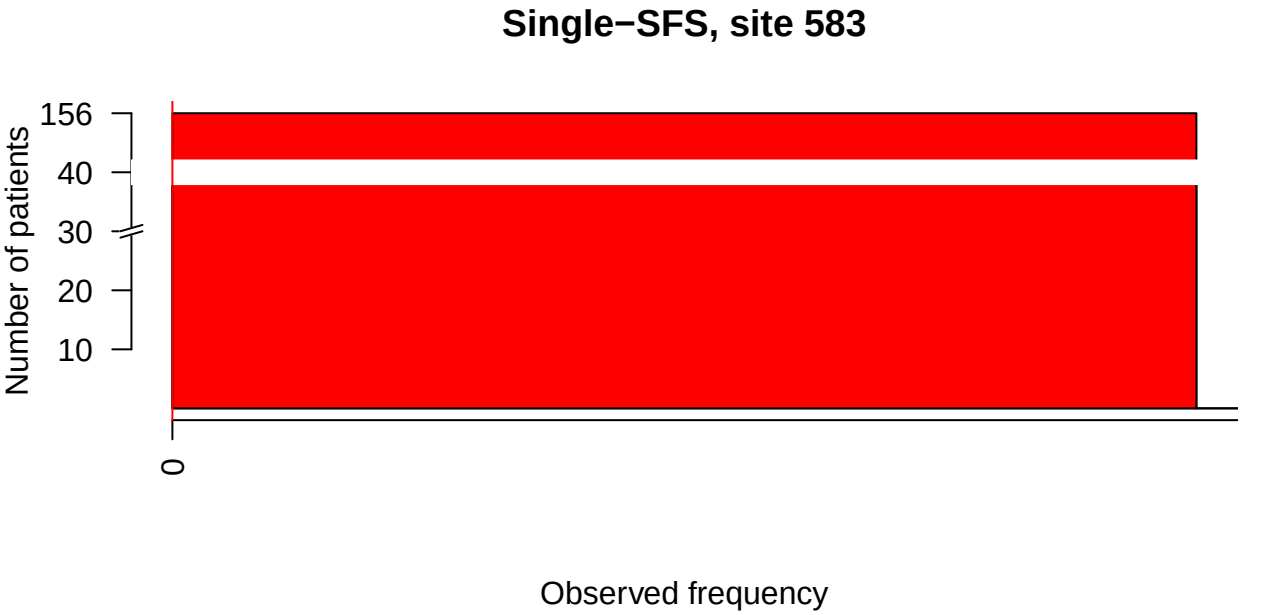

Simulated data, cost 0.0544
Number of patients
156
40
30
20
10
pvalue= 0.158
0
0.02
0.04
Observed frequency

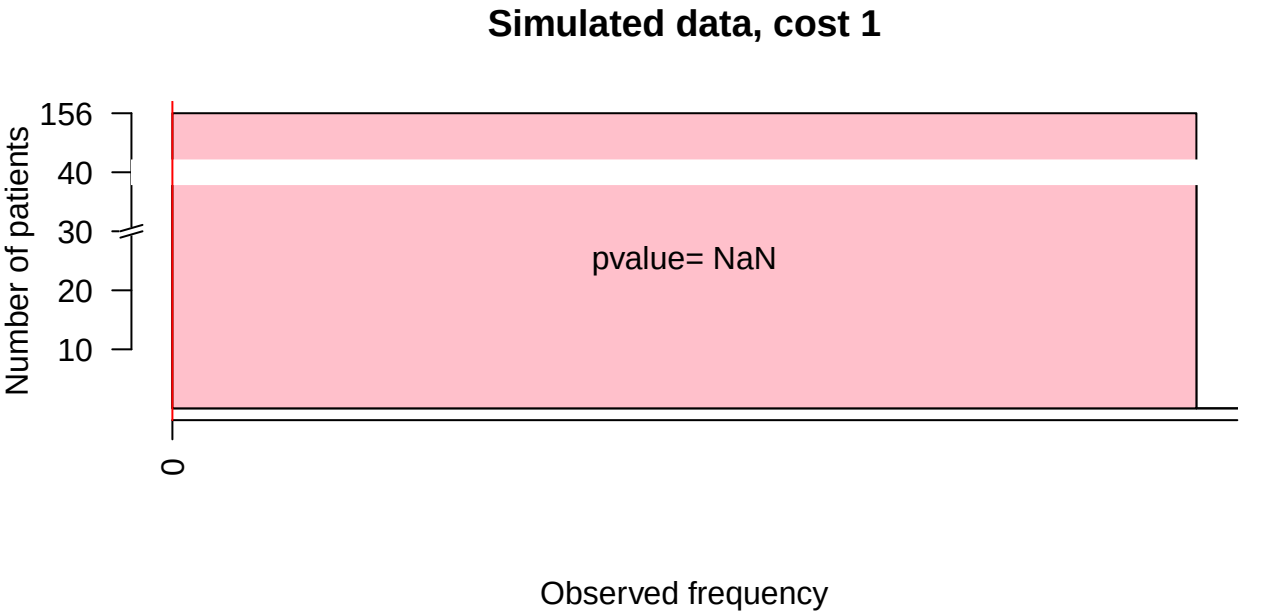

Single−SFS, site 581
Number of patients
153
40
30
20
10
0
0.02
0.04
0.06
Observed frequency

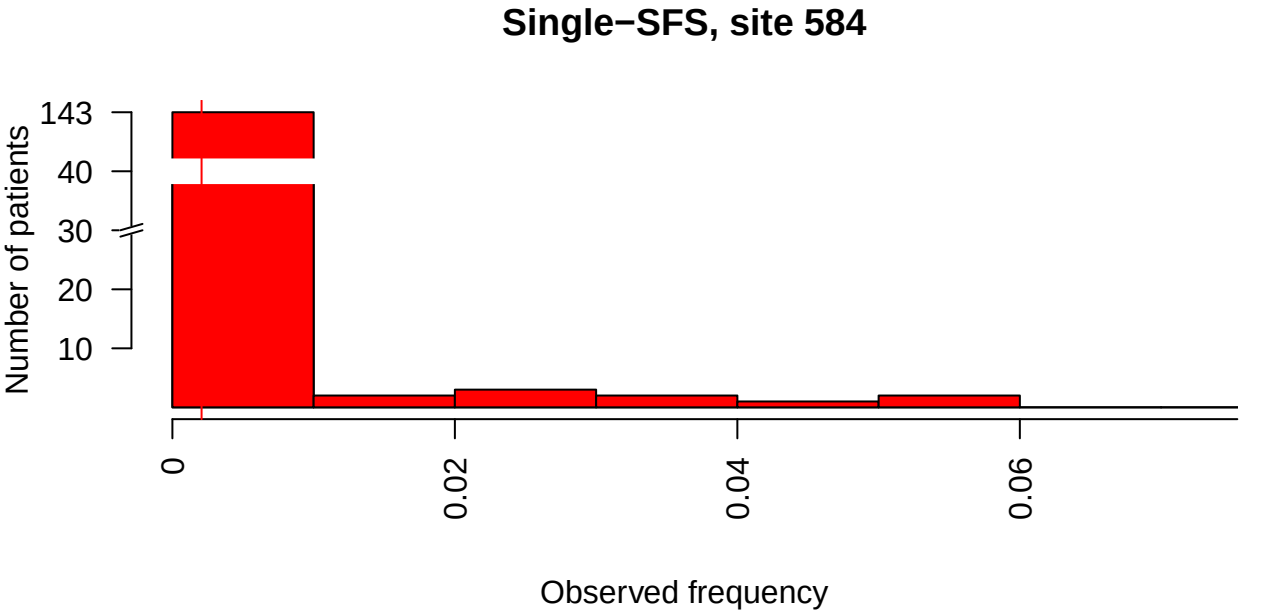

Simulated data, cost 0.0283
Number of patients
152
40
30
20
10
pvalue= 0.706
0
0.02
0.04
0.06
Observed frequency

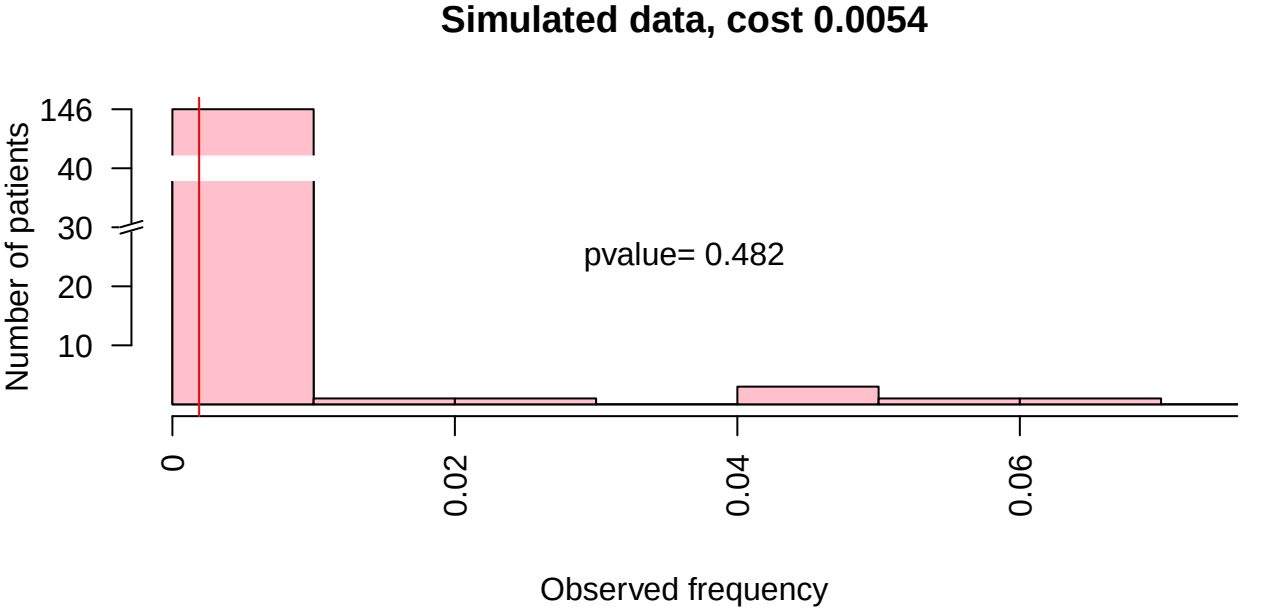

Single−SFS, site 582
Number of patients
135
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
Observed frequency

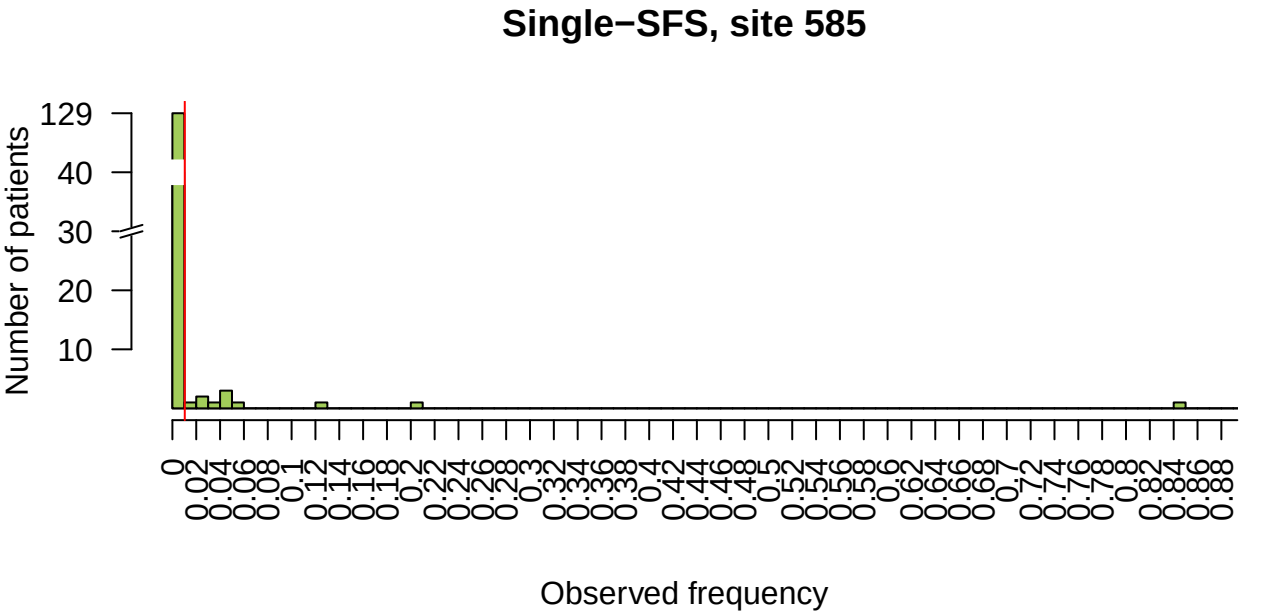

Simulated data, cost 0.0031
Number of patients
132
40
30
20
10
pvalue= 0.486
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
Observed frequency

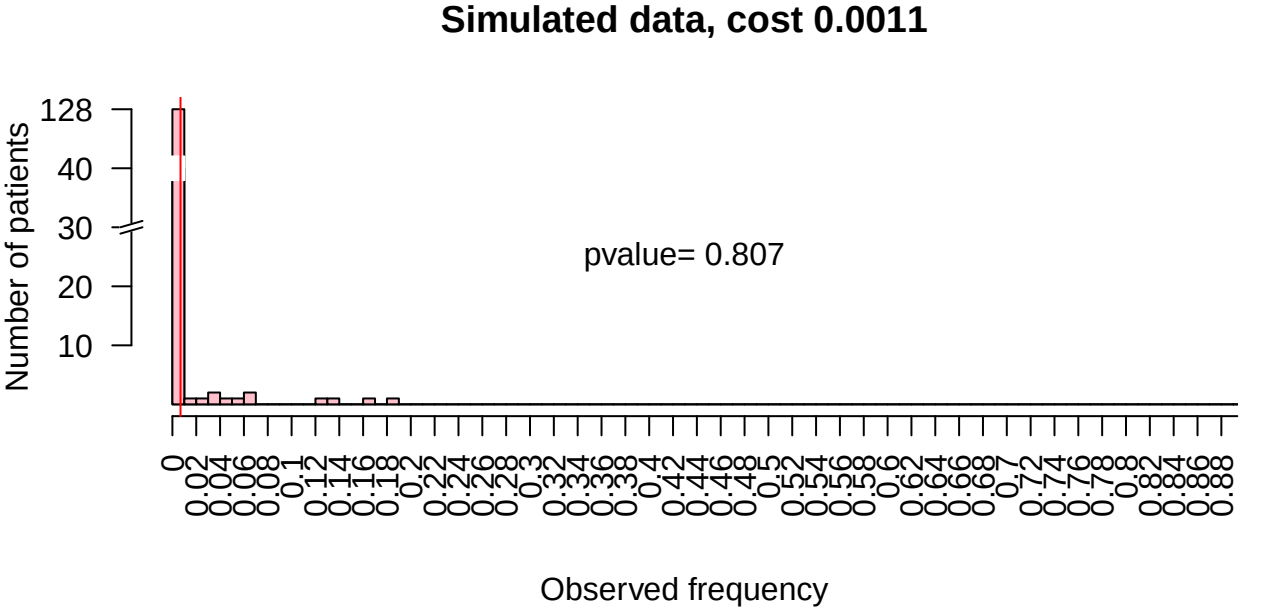

Single−SFS, site 583
Number of patients
156
40
30
20
10
0
Observed frequency

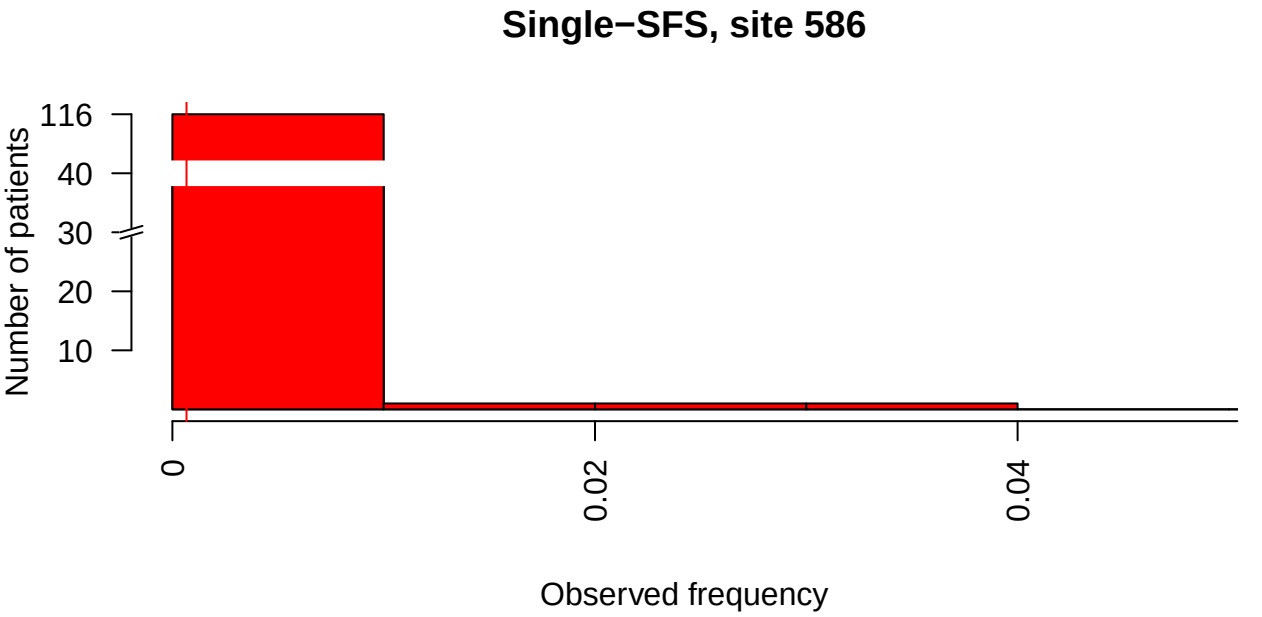

Simulated data, cost 1
Number of patients
156
40
30
20
10
0
pvalue= NaN
Observed frequency

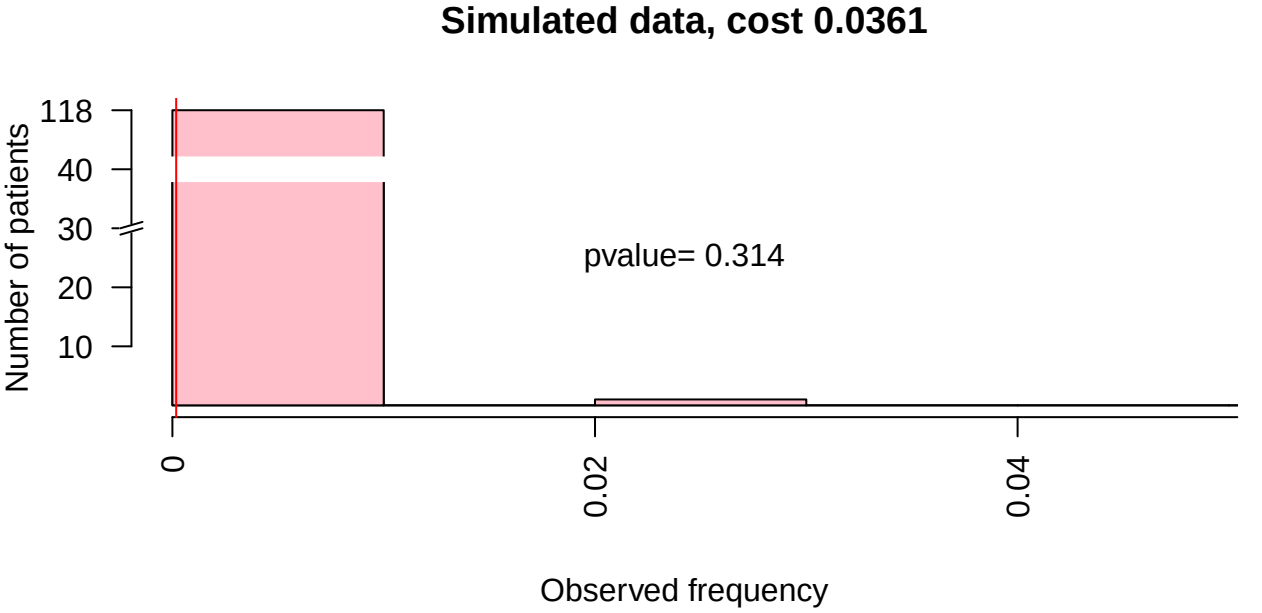

Single−SFS, site 584
Number of patients
143
40
30
20
10
0
0.02
0.04
0.06
Observed frequency

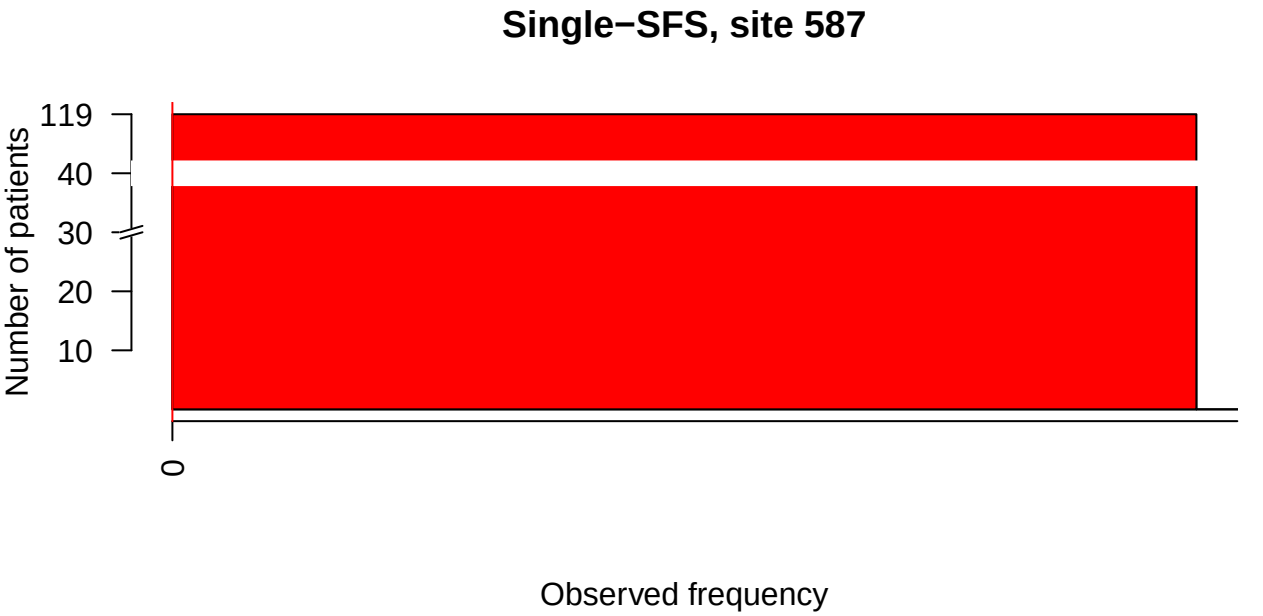

Simulated data, cost 0.0054
Number of patients
146
40
30
20
10
pvalue= 0.482
0
0.02
0.04
0.06
Observed frequency

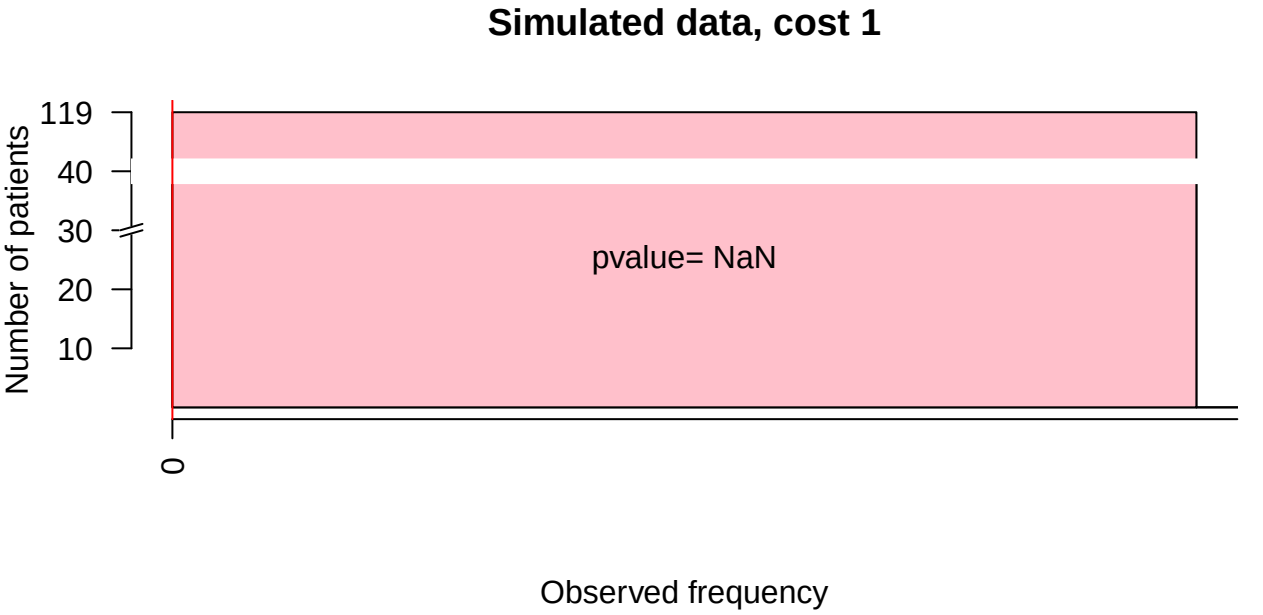

Single−SFS, site 585
Number of patients
129
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
0.24
0.26
0.28
0.3
0.32
0.34
0.36
0.38
0.4
0.42
0.44
0.46
0.48
0.5
0.52
0.54
0.56
0.58
0.6
0.62
0.64
0.66
0.68
0.7
0.72
0.74
0.76
0.78
0.8
0.82
0.84
0.86
0.88
Observed frequency

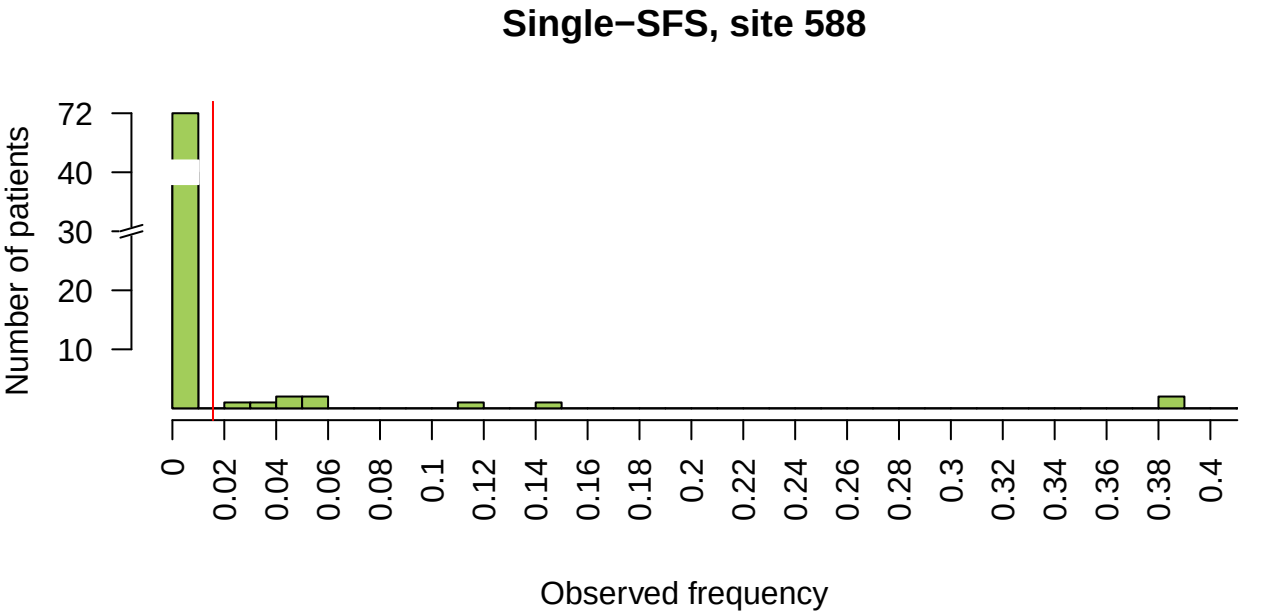

Simulated data, cost 0.0011
Number of patients
128
40
30
20
10
pvalue= 0.807
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
0.24
0.26
0.28
0.3
0.32
0.34
0.36
0.38
0.4
0.42
0.44
0.46
0.48
0.5
0.52
0.54
0.56
0.58
0.6
0.62
0.64
0.66
0.68
0.7
0.72
0.74
0.76
0.78
0.8
0.82
0.84
0.86
0.88
Observed frequency

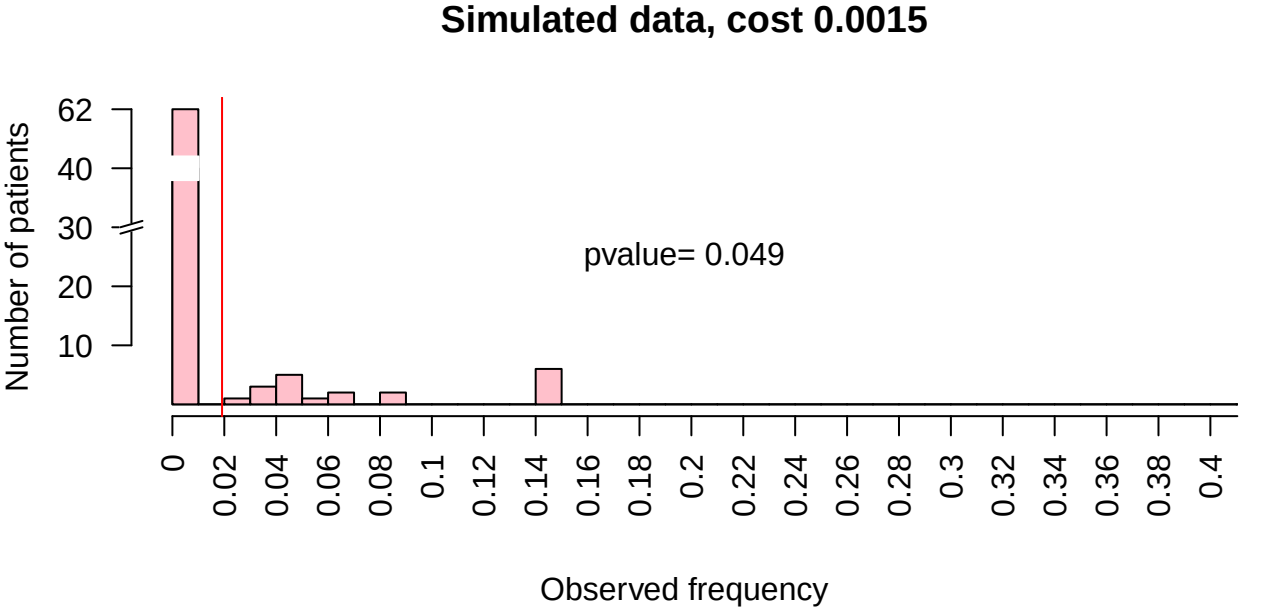

Single−SFS, site 586
Number of patients
116
40
30
20
10
0
0.02
0.04
Observed frequency

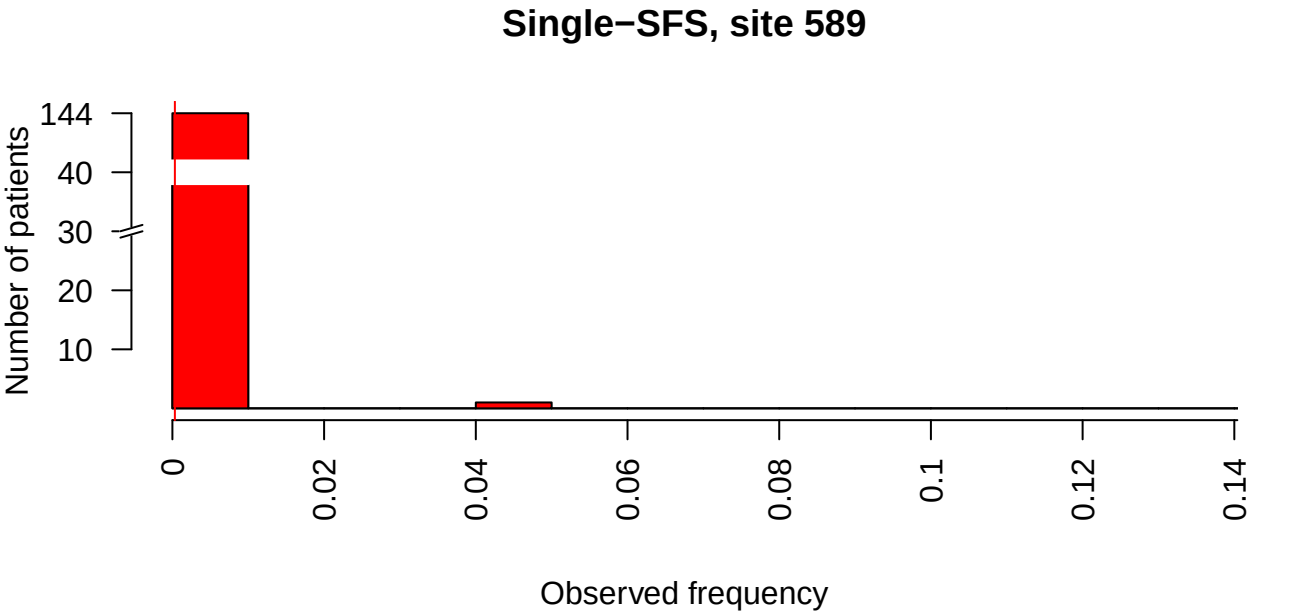

Simulated data, cost 0.0361
Number of patients
118
40
30
20
10
pvalue= 0.314
0
0.02
0.04
Observed frequency

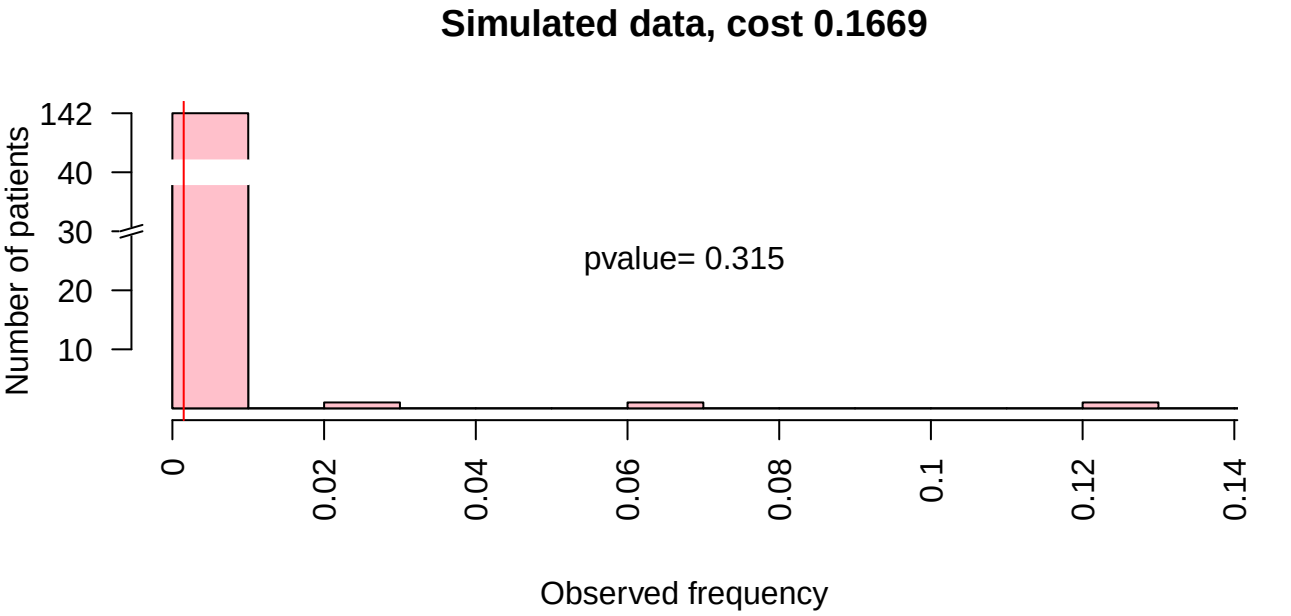

Single−SFS, site 587
Number of patients
119
40
30
20
10
0
Observed frequency

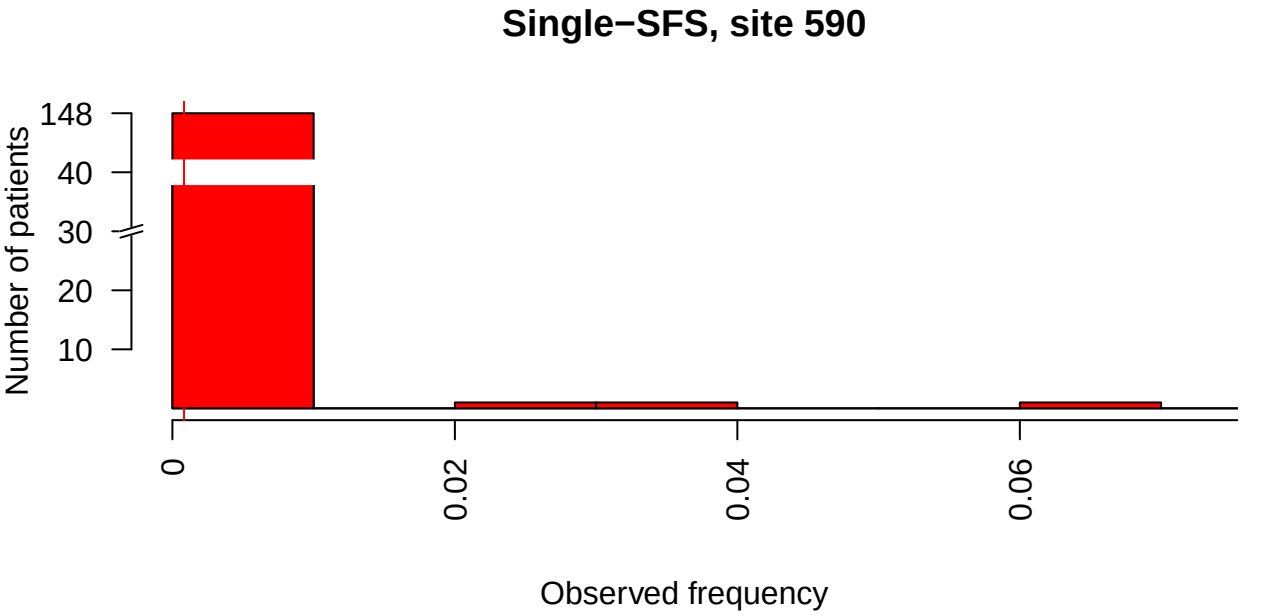

Simulated data, cost 1
Number of patients
119
40
30
20
10
0
pvalue= NaN
Observed frequency

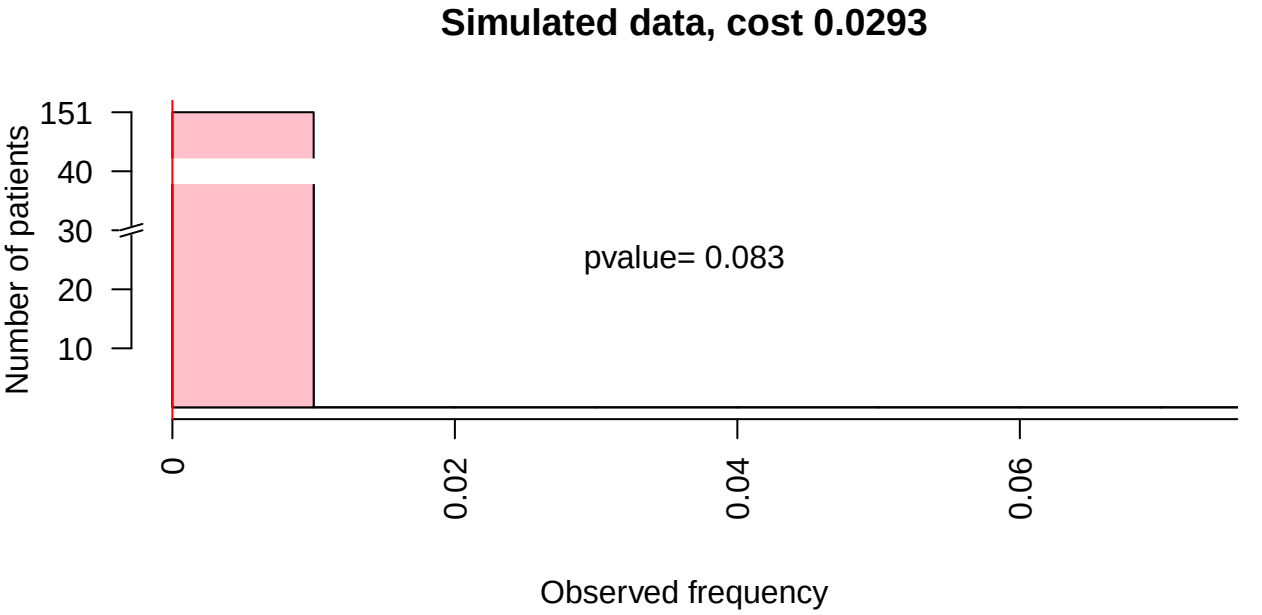

Single−SFS, site 588
Number of patients
72
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
0.24
0.26
0.28
0.3
0.32
0.34
0.36
0.38
0.4
Observed frequency

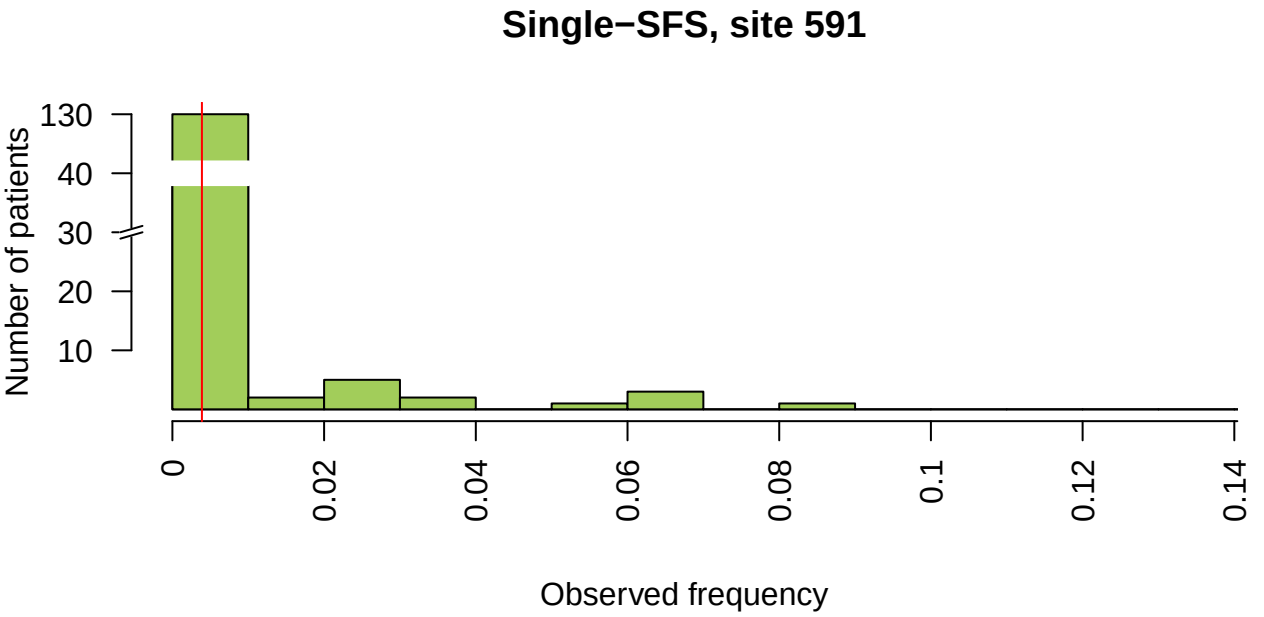

Simulated data, cost 0.0015
Number of patients
62
40
30
20
10
pvalue= 0.049
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
0.24
0.26
0.28
0.3
0.32
0.34
0.36
0.38
0.4
Observed frequency

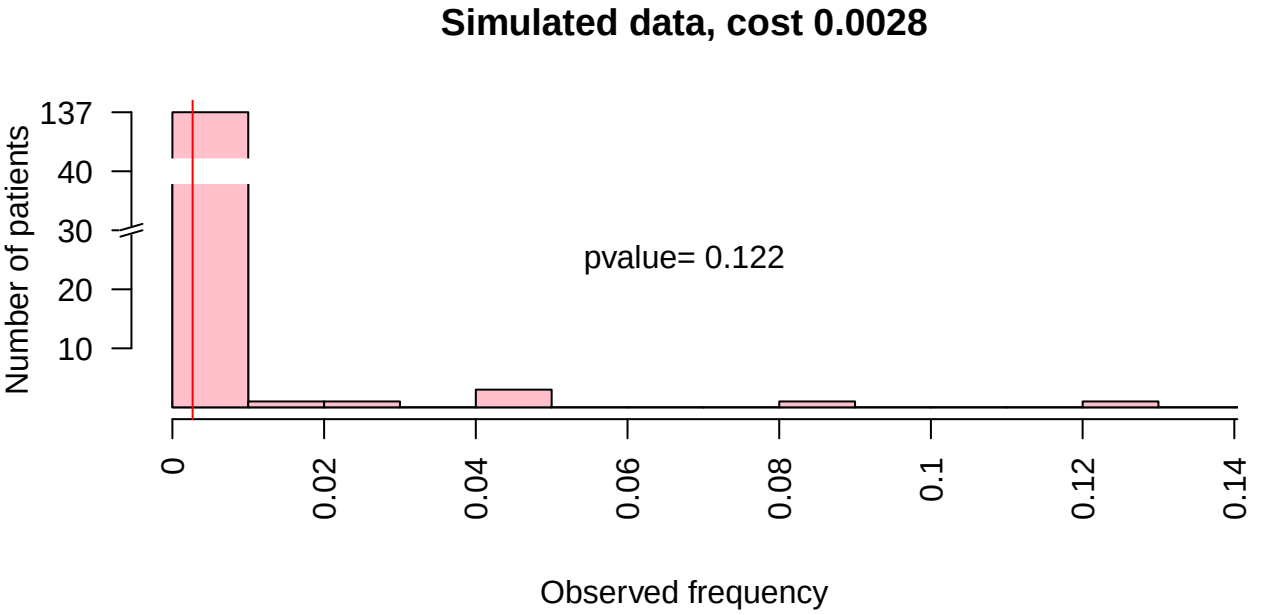

Single−SFS, site 589
Number of patients
144
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
Observed frequency

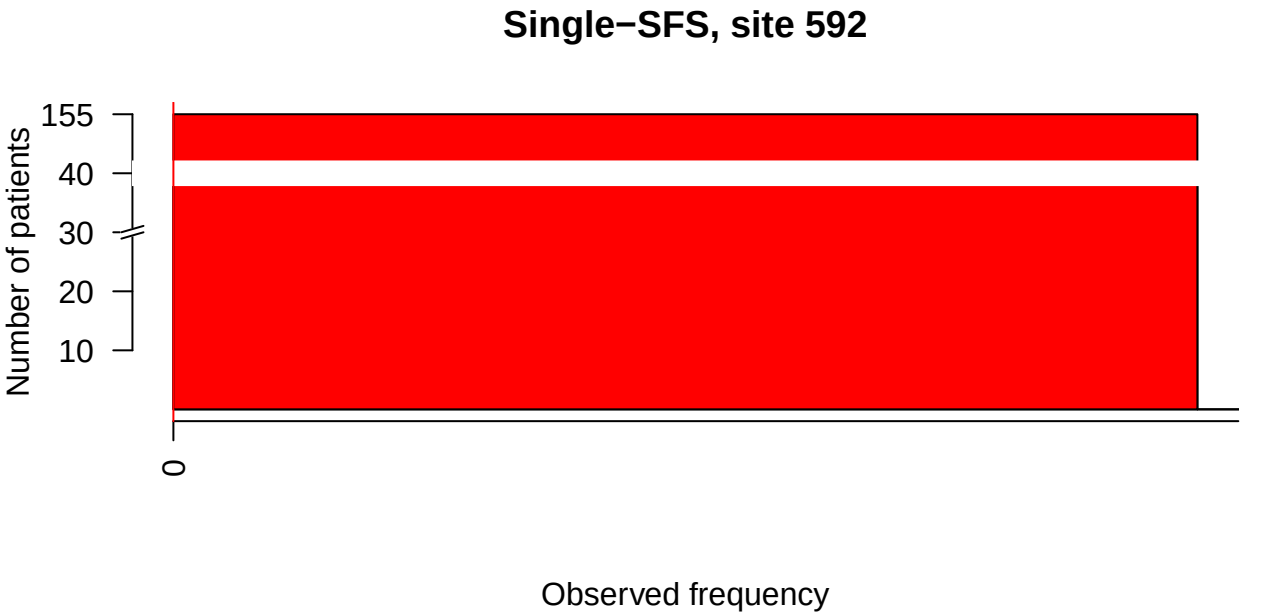

Simulated data, cost 0.1669
Number of patients
142
40
30
20
10
pvalue= 0.315
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
Observed frequency

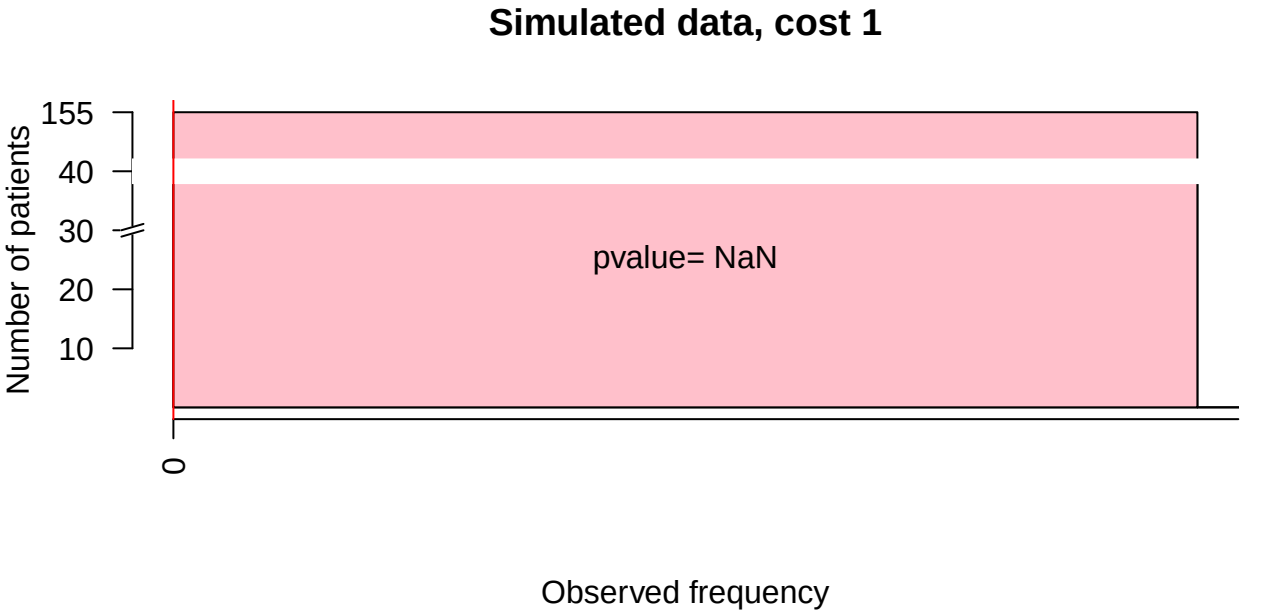

Single−SFS, site 590
Number of patients
148
40
30
20
10
0
0.02
0.04
0.06
Observed frequency

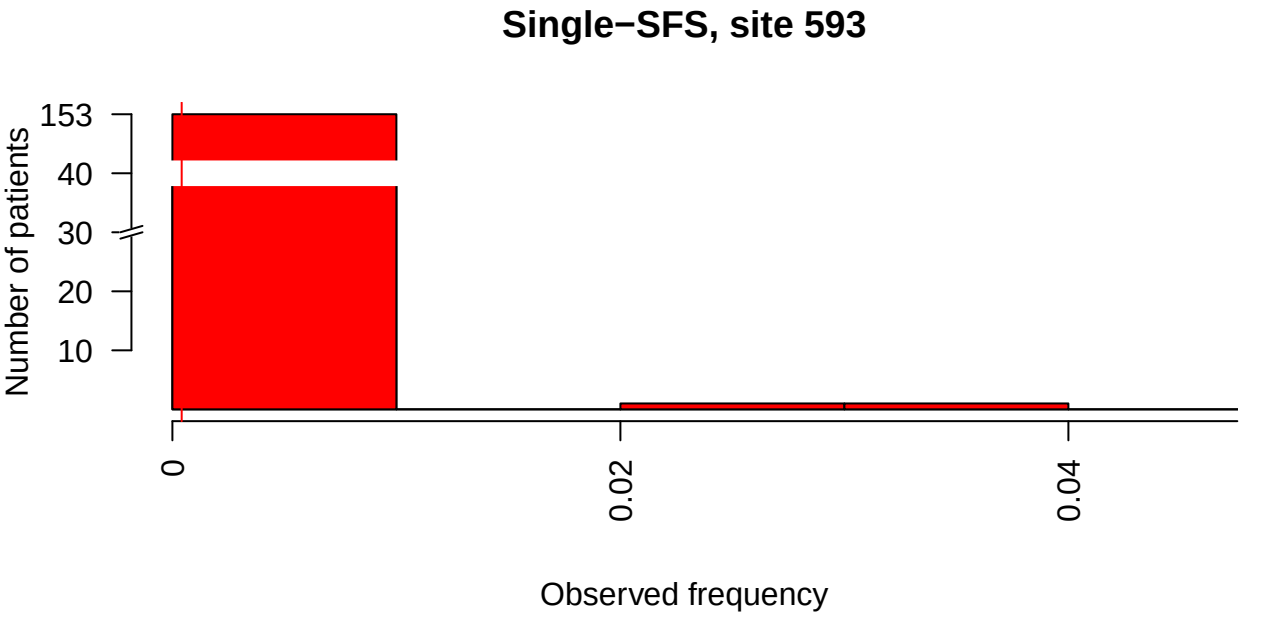

Simulated data, cost 0.0293
Number of patients
151
40
30
20
10
pvalue= 0.083
0
0.02
0.04
0.06
Observed frequency

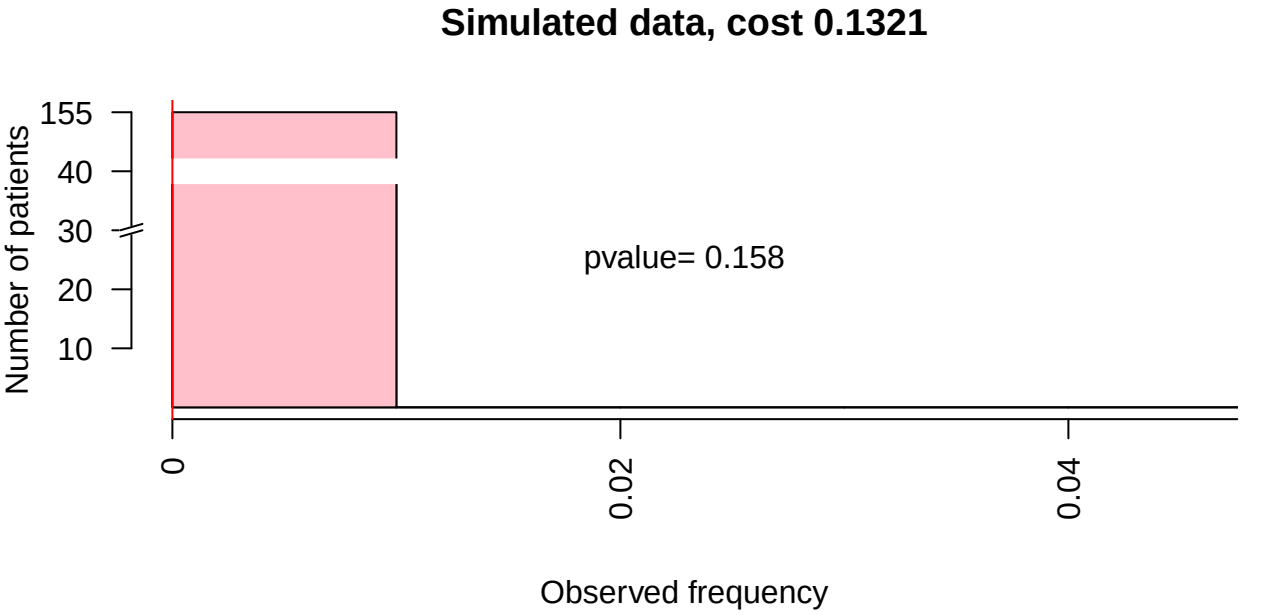

Single−SFS, site 591
Number of patients
130
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
Observed frequency

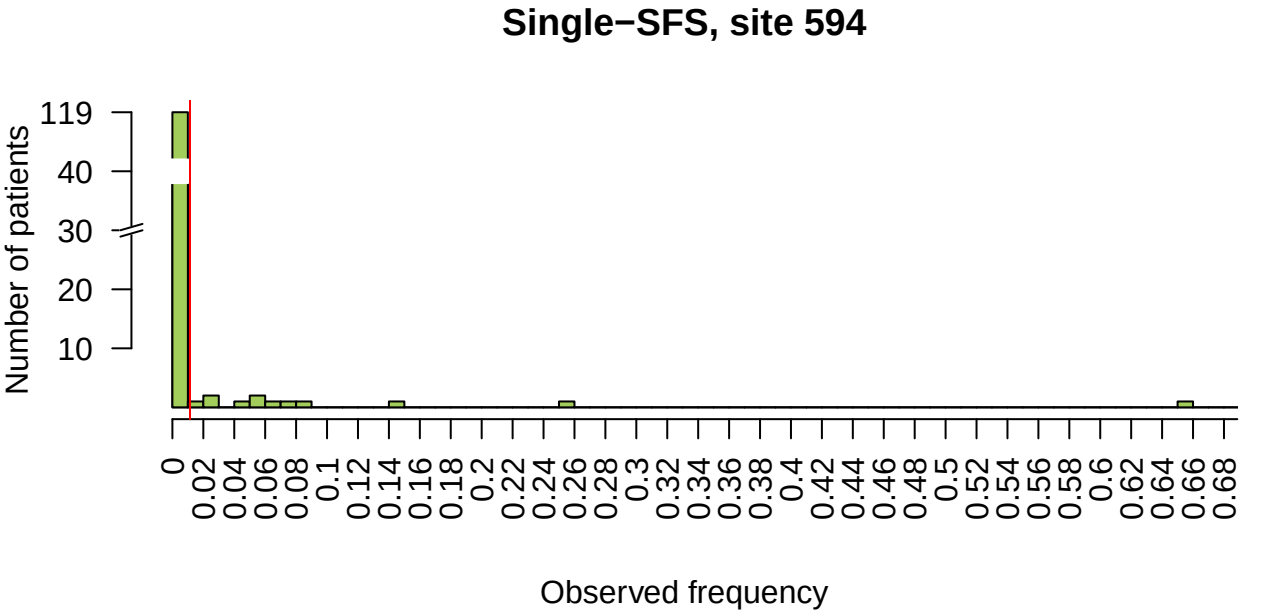

Simulated data, cost 0.0028
Number of patients
137
40
30
20
10
pvalue= 0.122
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
Observed frequency

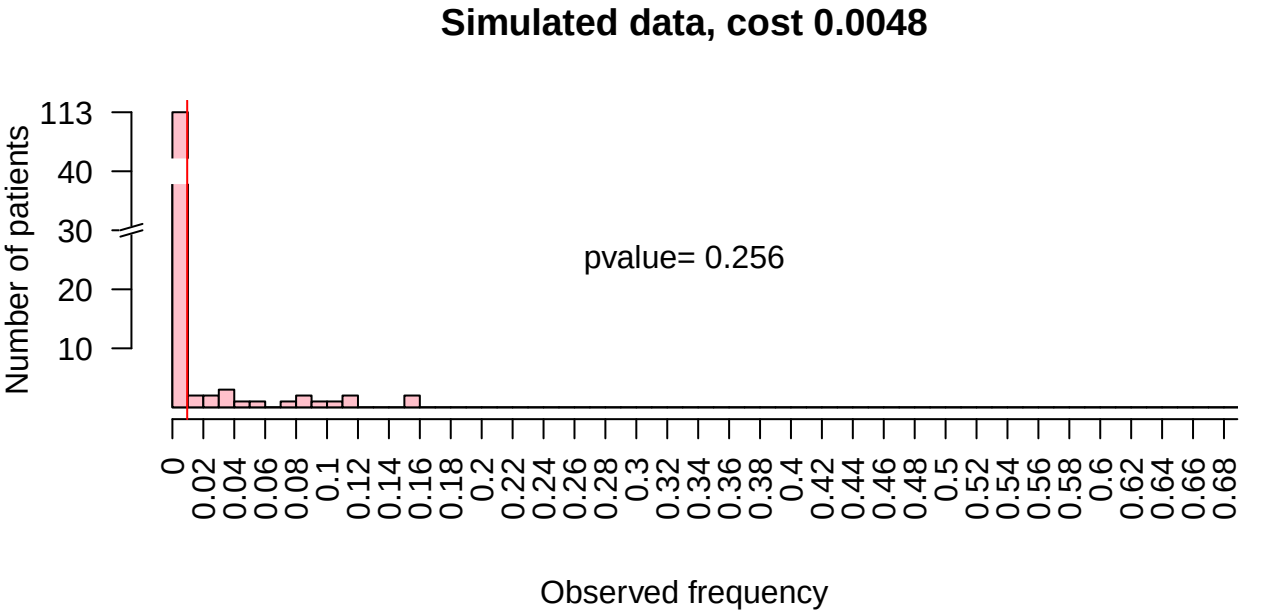

Single−SFS, site 592
Number of patients
155
40
30
20
10
0
Observed frequency

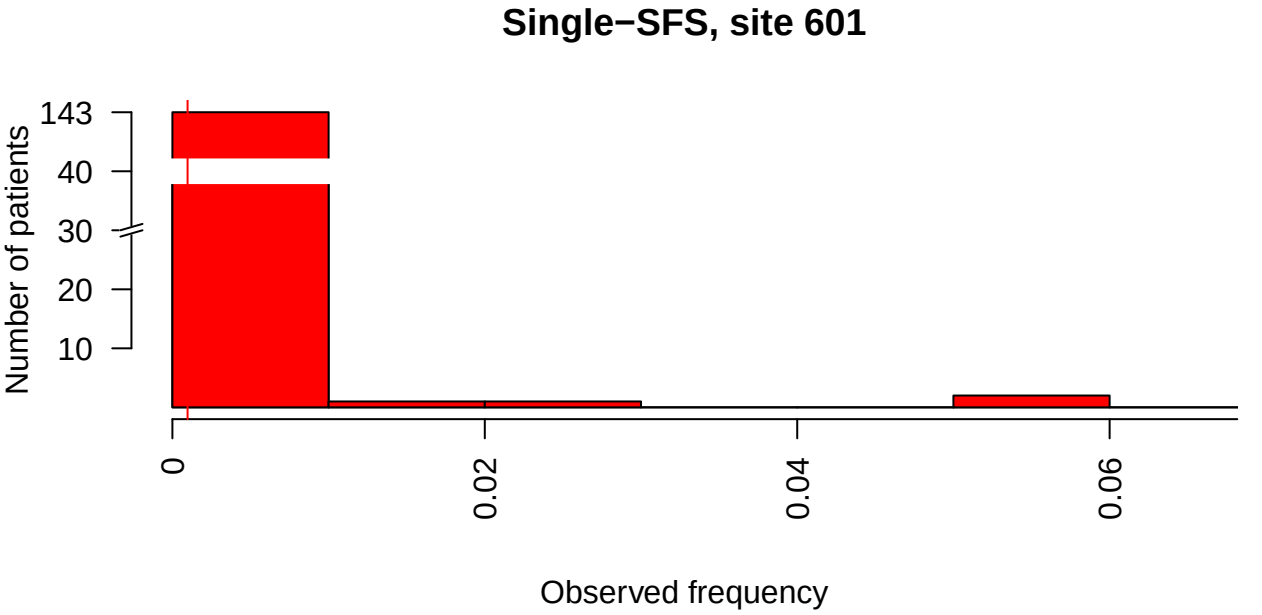

Simulated data, cost 1
Number of patients
155
40
30
20
10
0
pvalue= NaN
Observed frequency

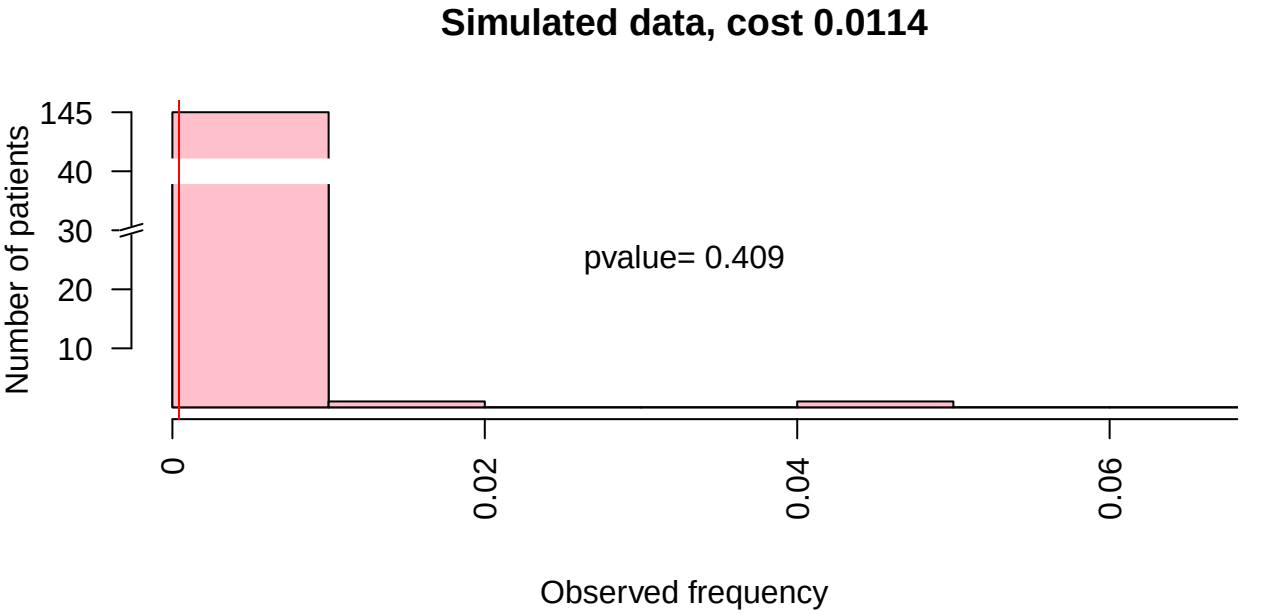

Single−SFS, site 593
Number of patients
153
40
30
20
10
0
0.02
0.04
Observed frequency

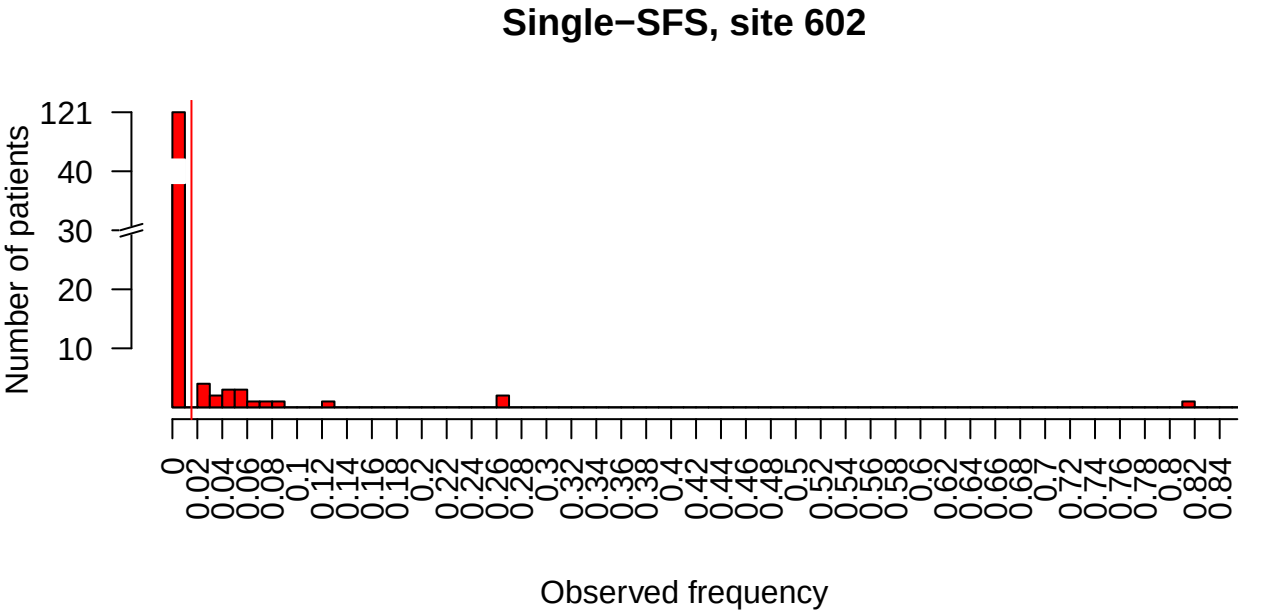

Simulated data, cost 0.1321
Number of patients
155
40
30
20
10
pvalue= 0.158
0
0.02
0.04
Observed frequency

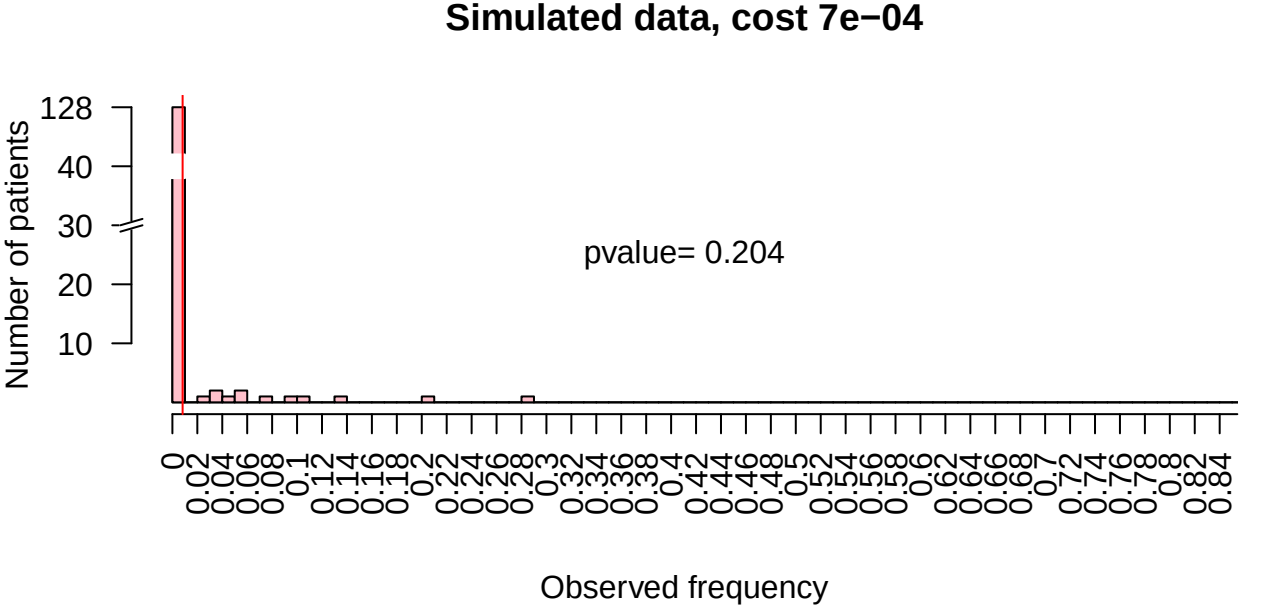

Single−SFS, site 594
Number of patients
119
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
0.24
0.26
0.28
0.3
0.32
0.34
0.36
0.38
0.4
0.42
0.44
0.46
0.48
0.5
0.52
0.54
0.56
0.58
0.6
0.62
0.64
0.66
0.68
Observed frequency

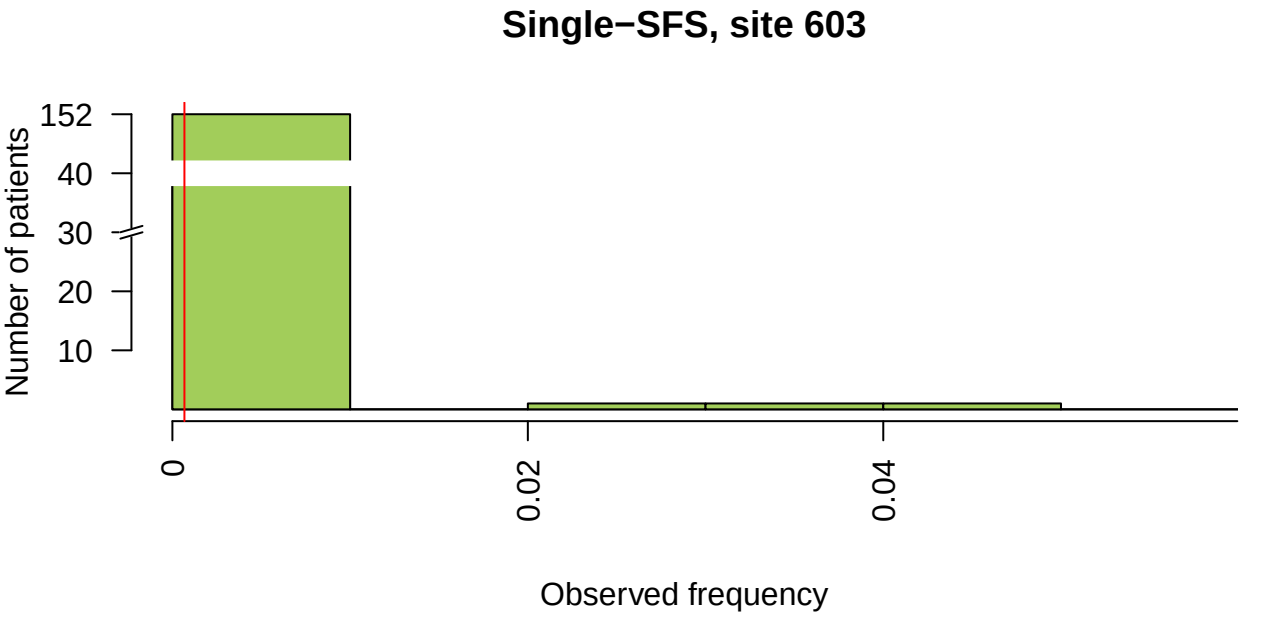

Simulated data, cost 0.0048
Number of patients
113
40
30
20
10
pvalue= 0.256
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
0.24
0.26
0.28
0.3
0.32
0.34
0.36
0.38
0.4
0.42
0.44
0.46
0.48
0.5
0.52
0.54
0.56
0.58
0.6
0.62
0.64
0.66
0.68
Observed frequency

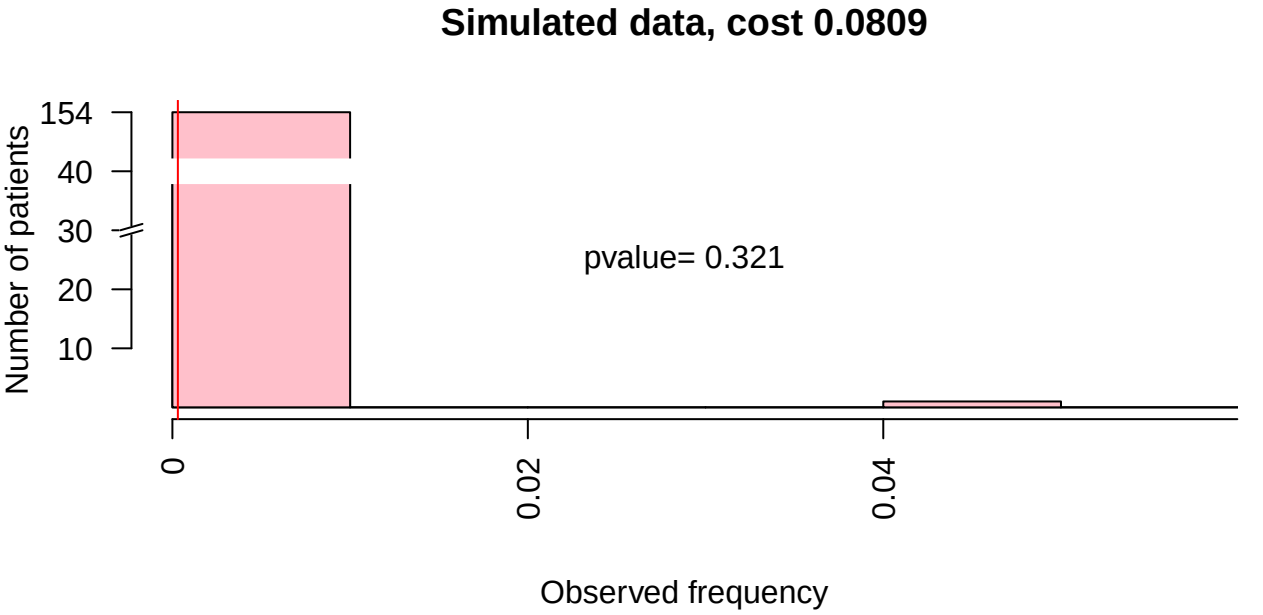

Single−SFS, site 601
Number of patients
143
40
30
20
10
0
0.02
0.04
0.06
Observed frequency

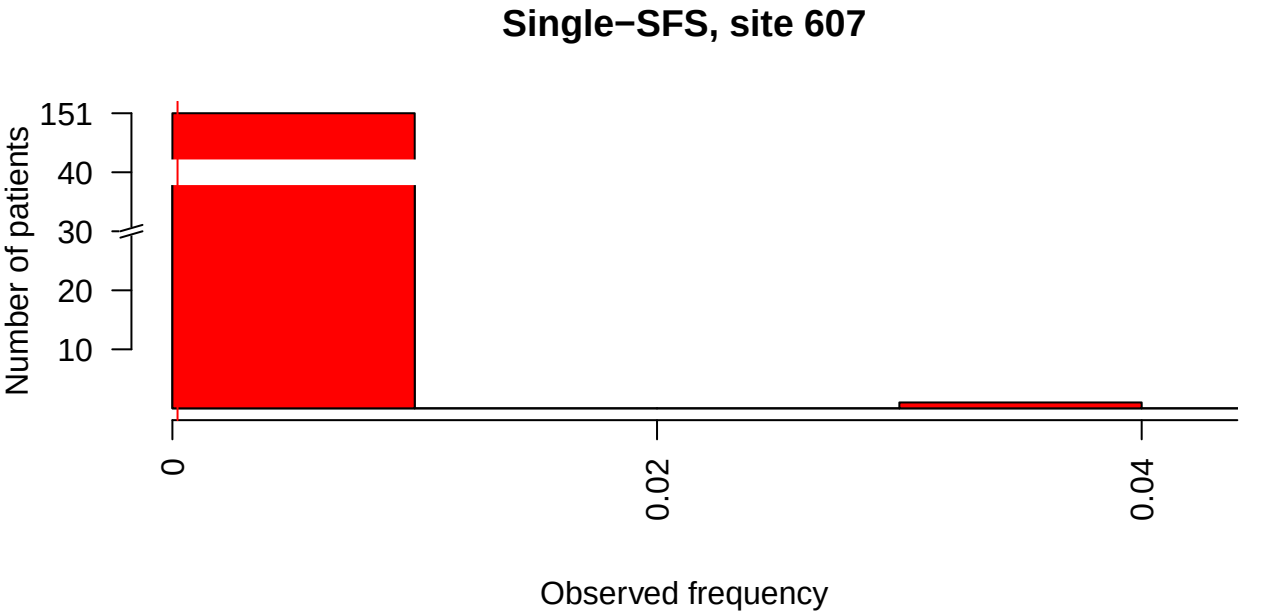

Simulated data, cost 0.0114
Number of patients
145
40
30
20
10
pvalue= 0.409
0
0.02
0.04
0.06
Observed frequency

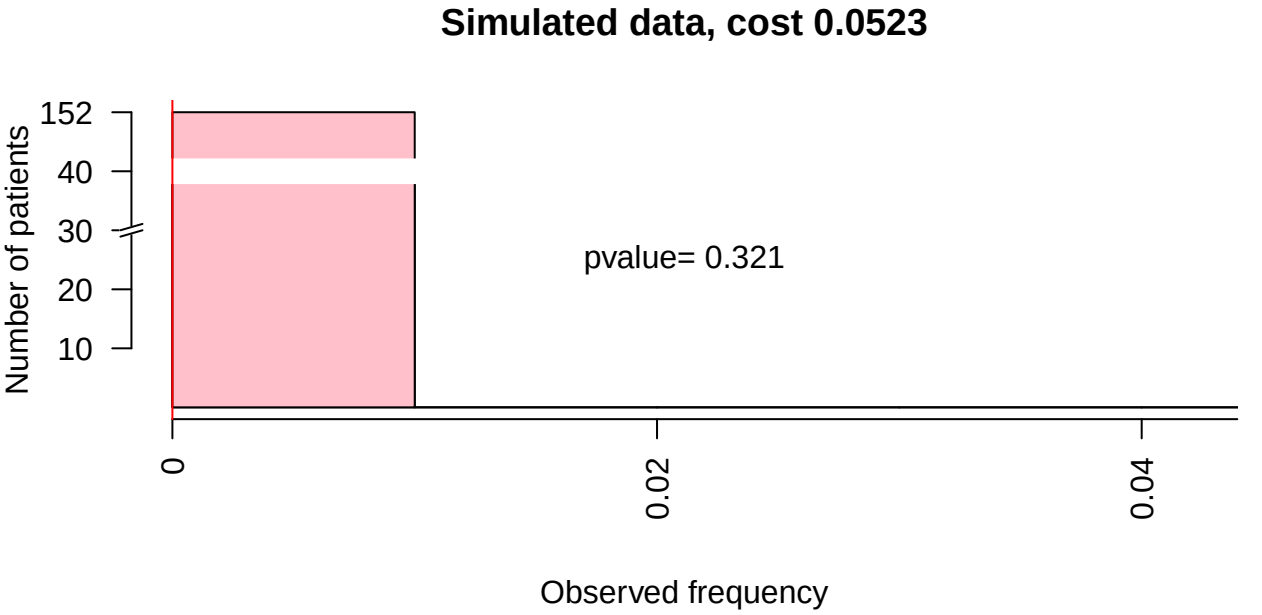

Single−SFS, site 602
Number of patients
121
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
0.24
0.26
0.28
0.3
0.32
0.34
0.36
0.38
0.4
0.42
0.44
0.46
0.48
0.5
0.52
0.54
0.56
0.58
0.6
0.62
0.64
0.66
0.68
0.7
0.72
0.74
0.76
0.78
0.8
0.82
0.84
Observed frequency

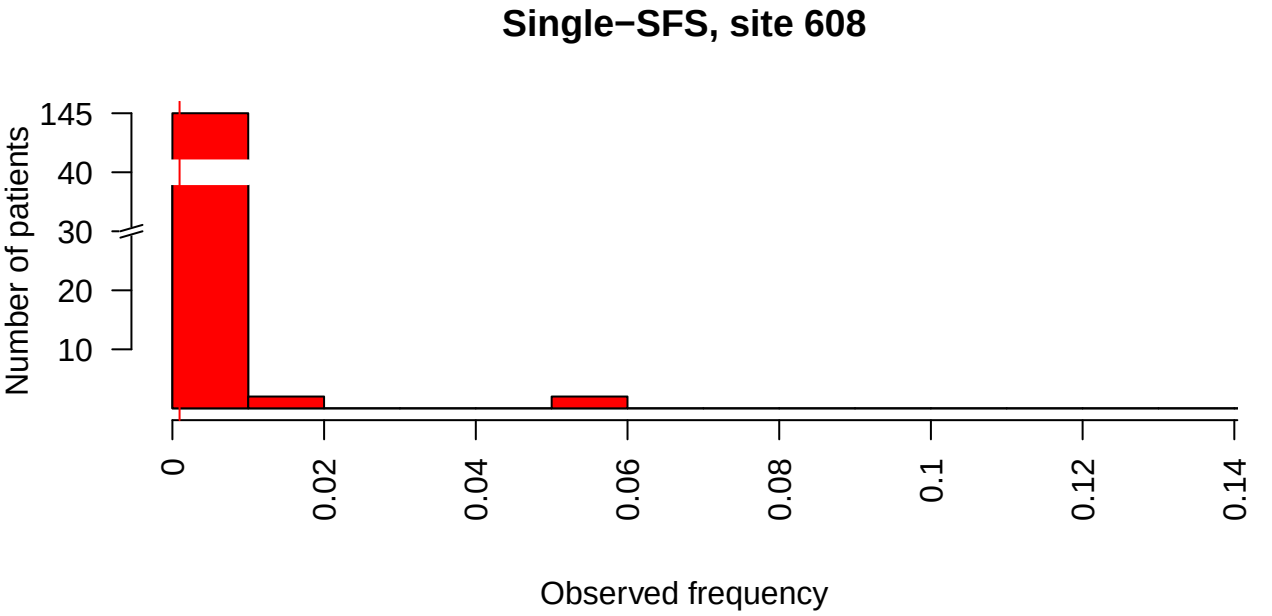

Simulated data, cost 7e−04
Number of patients
128
40
30
20
10
pvalue= 0.204
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
0.24
0.26
0.28
0.3
0.32
0.34
0.36
0.38
0.4
0.42
0.44
0.46
0.48
0.5
0.52
0.54
0.56
0.58
0.6
0.62
0.64
0.66
0.68
0.7
0.72
0.74
0.76
0.78
0.8
0.82
0.84
Observed frequency

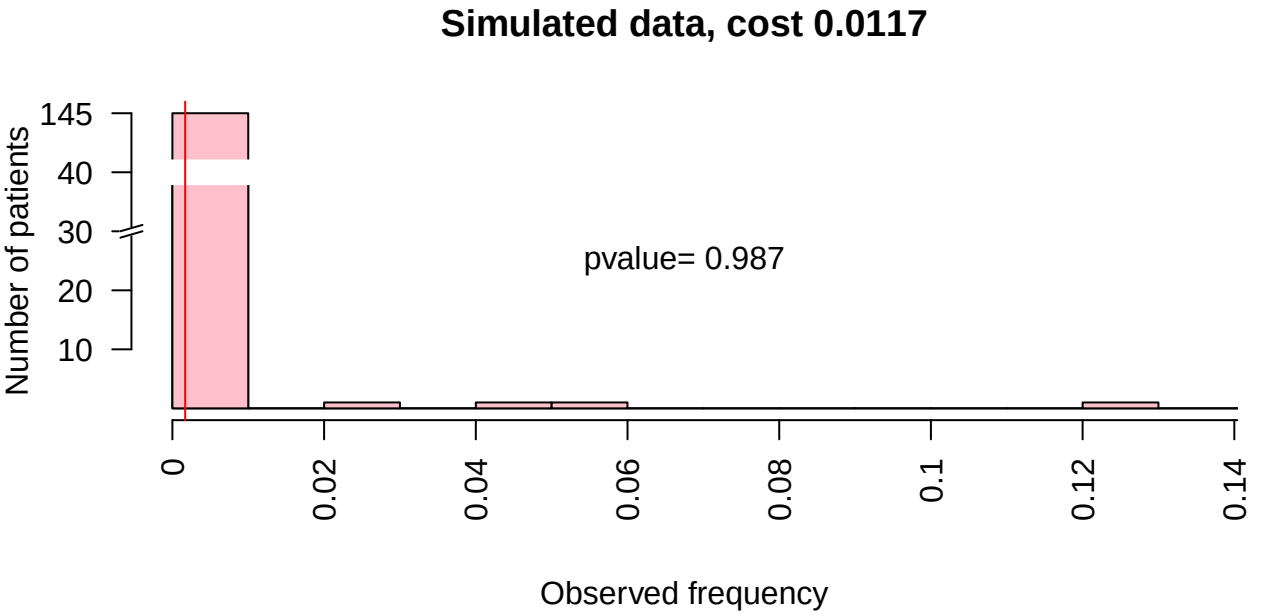

Single−SFS, site 603
Number of patients
152
40
30
20
10
0
0.02
0.04
Observed frequency

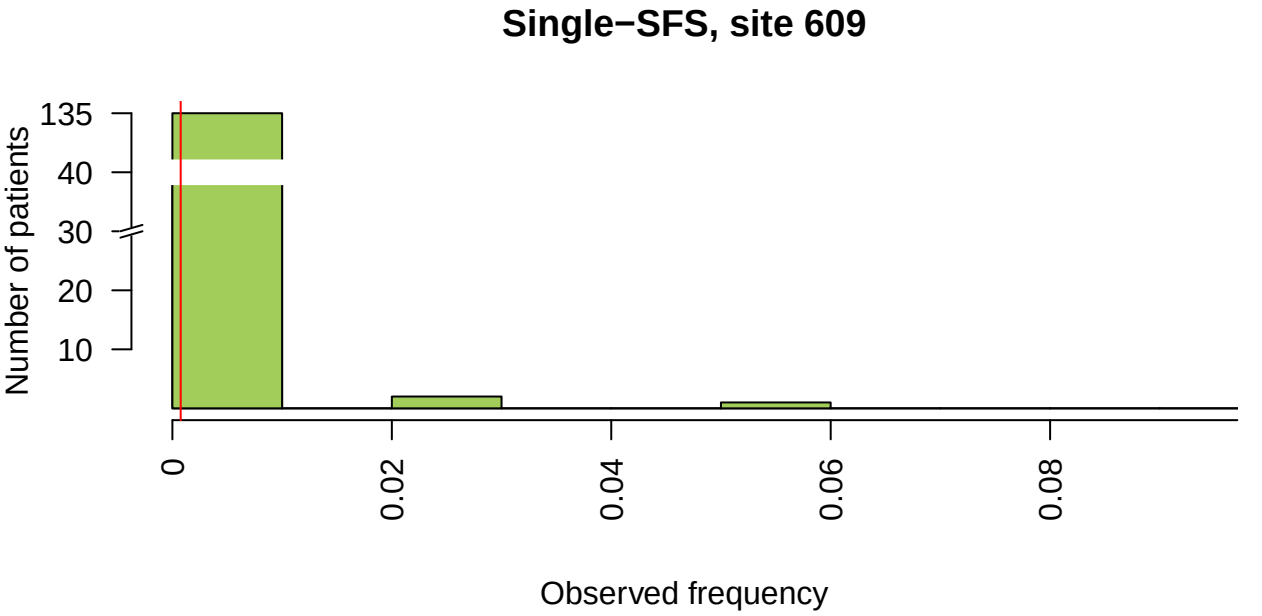

Simulated data, cost 0.0809
Number of patients
154
40
30
20
10
pvalue= 0.321
0
0.02
0.04
Observed frequency

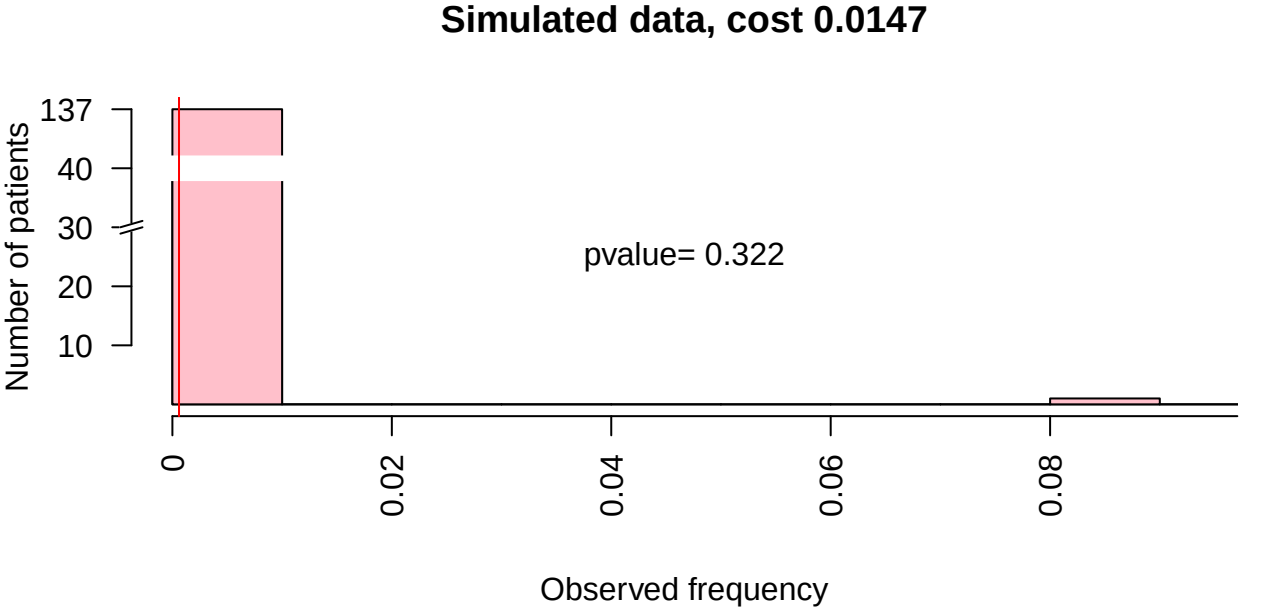

Single−SFS, site 607
Number of patients
151
40
30
20
10
0
0.02
0.04
Observed frequency

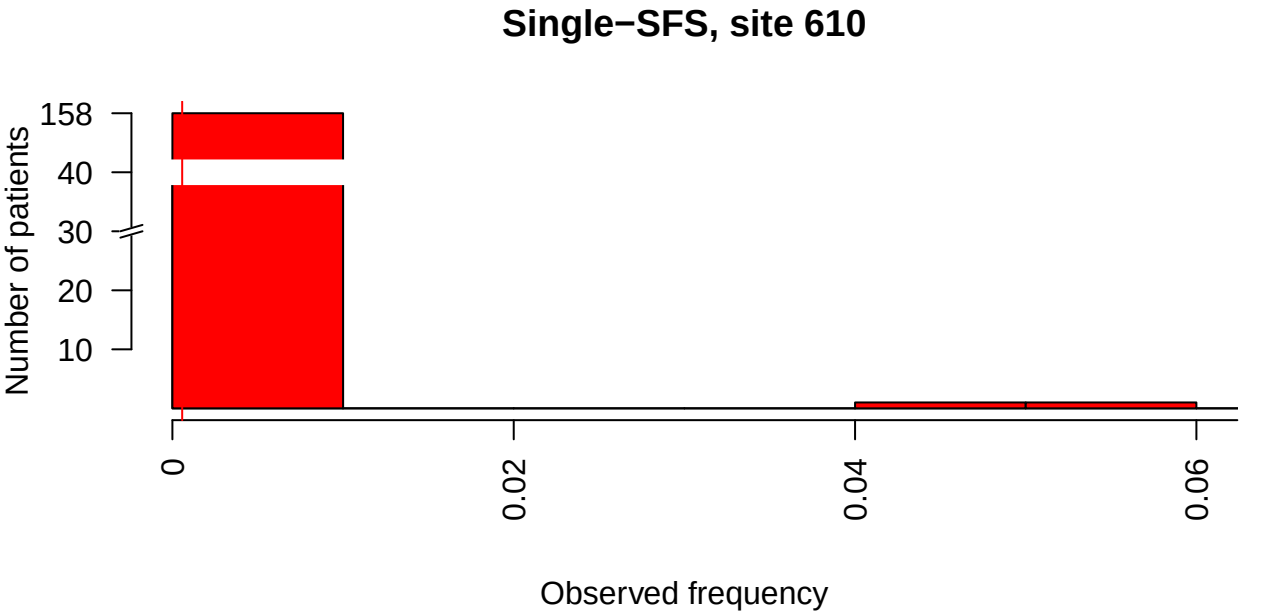

Simulated data, cost 0.0523
Number of patients
152
40
30
20
10
pvalue= 0.321
0
0.02
0.04
Observed frequency

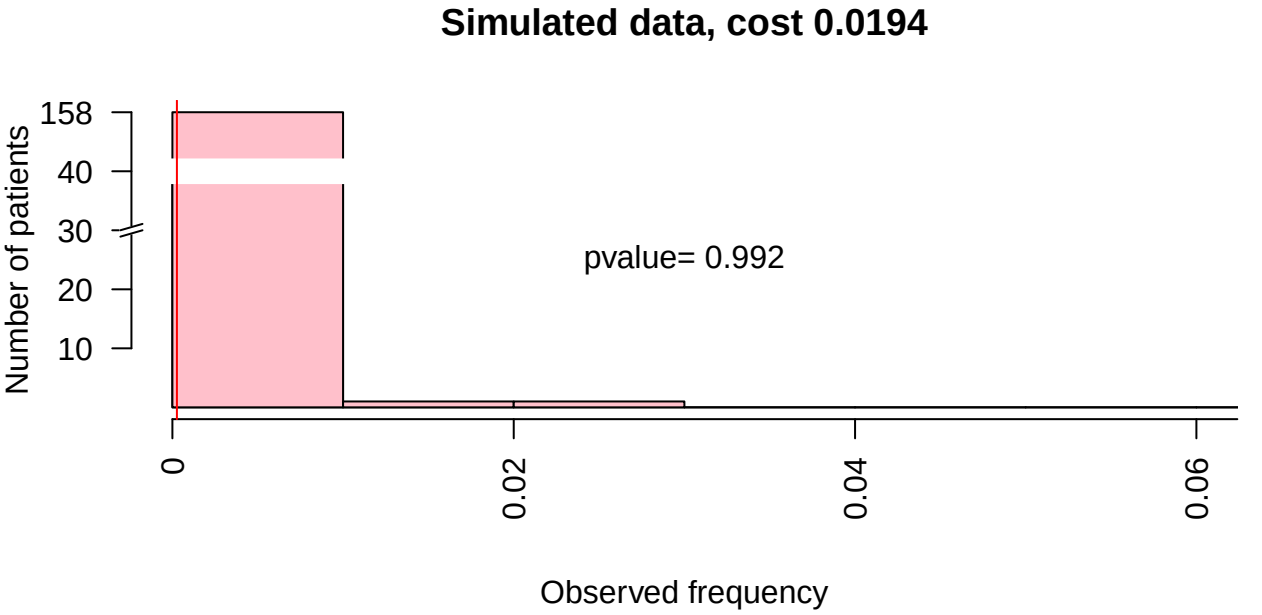

Single−SFS, site 608
Number of patients
145
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
Observed frequency

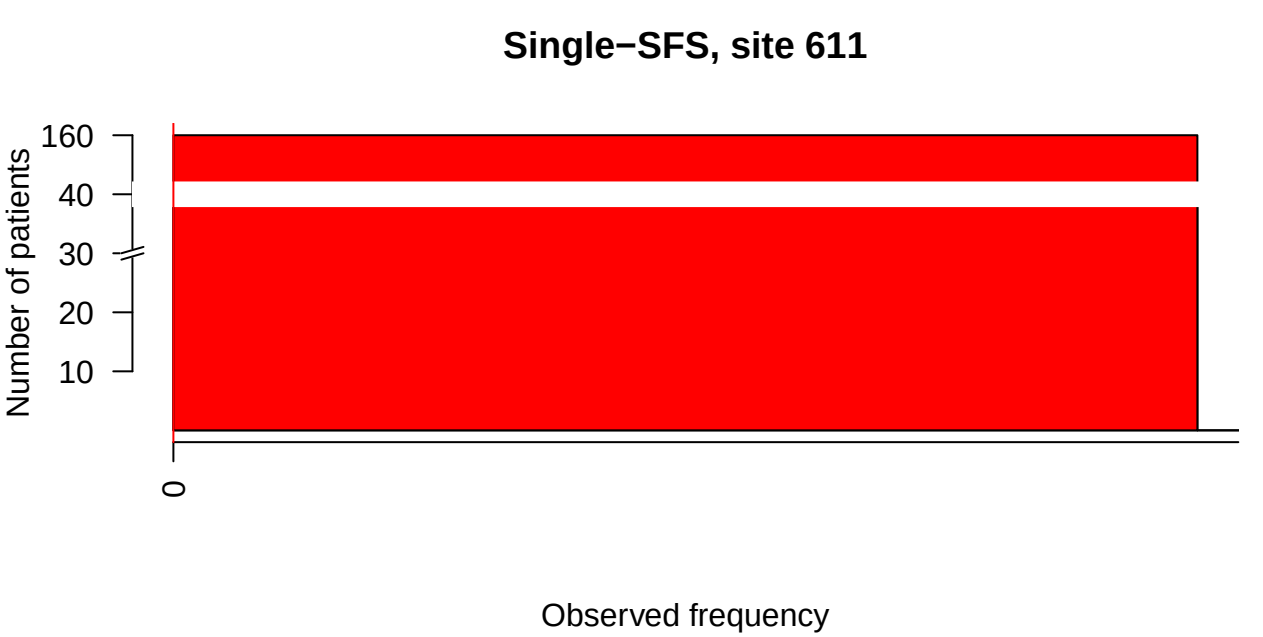

Simulated data, cost 0.0117
Number of patients
145
40
30
20
10
pvalue= 0.987
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
Observed frequency

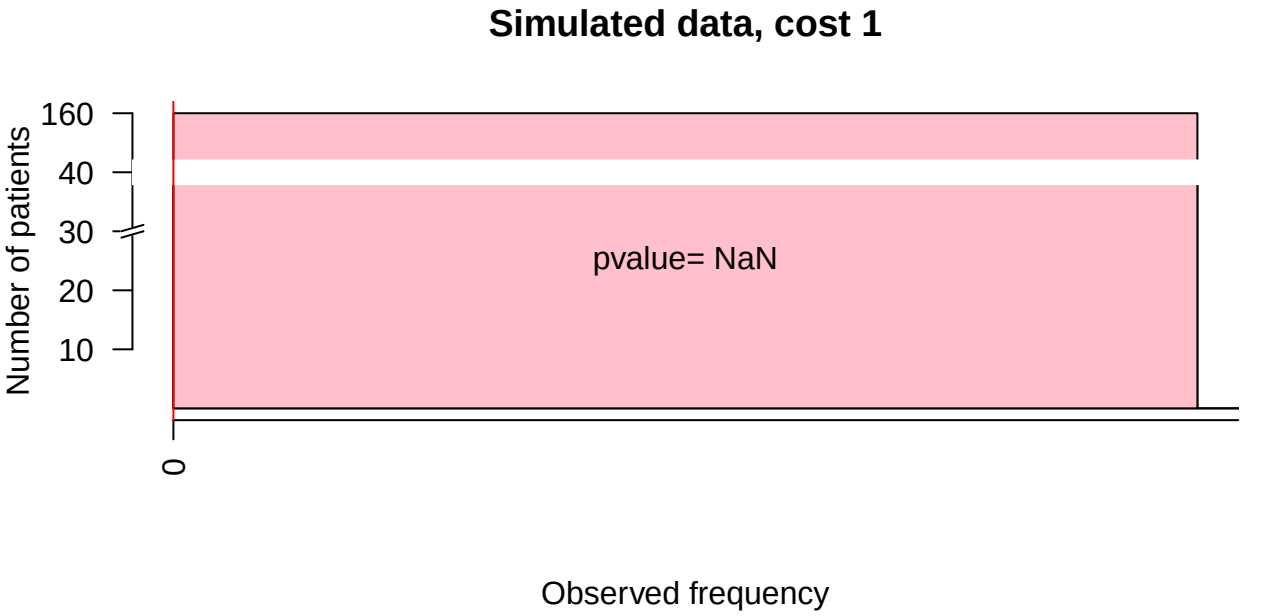

Single−SFS, site 609
Number of patients
135
40
30
20
10
0
0.02
0.04
0.06
0.08
Observed frequency

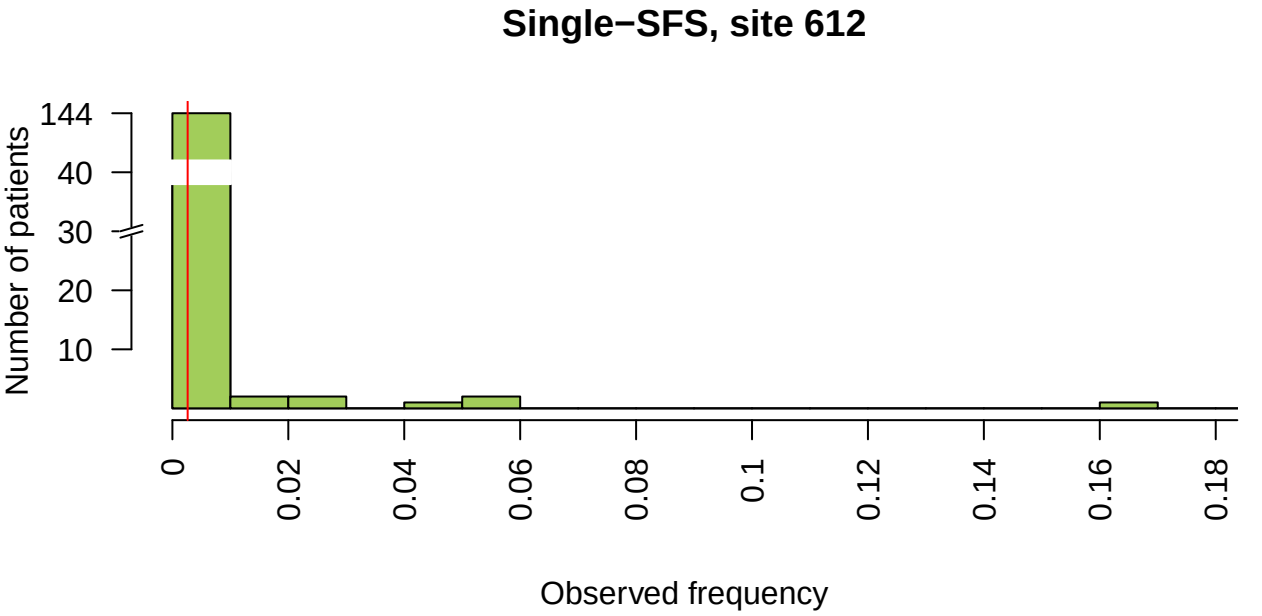

Simulated data, cost 0.0147
Number of patients
137
40
30
20
10
pvalue= 0.322
0
0.02
0.04
0.06
0.08
Observed frequency

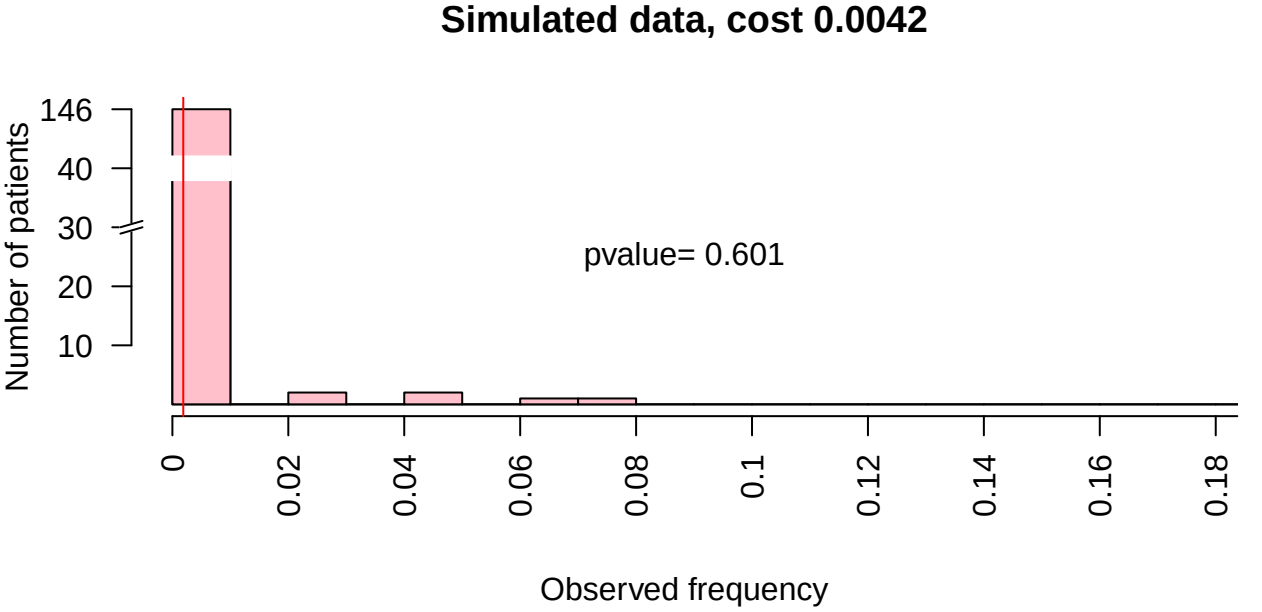

Single−SFS, site 610
Number of patients
158
40
30
20
10
0
0.02
0.04
0.06
Observed frequency

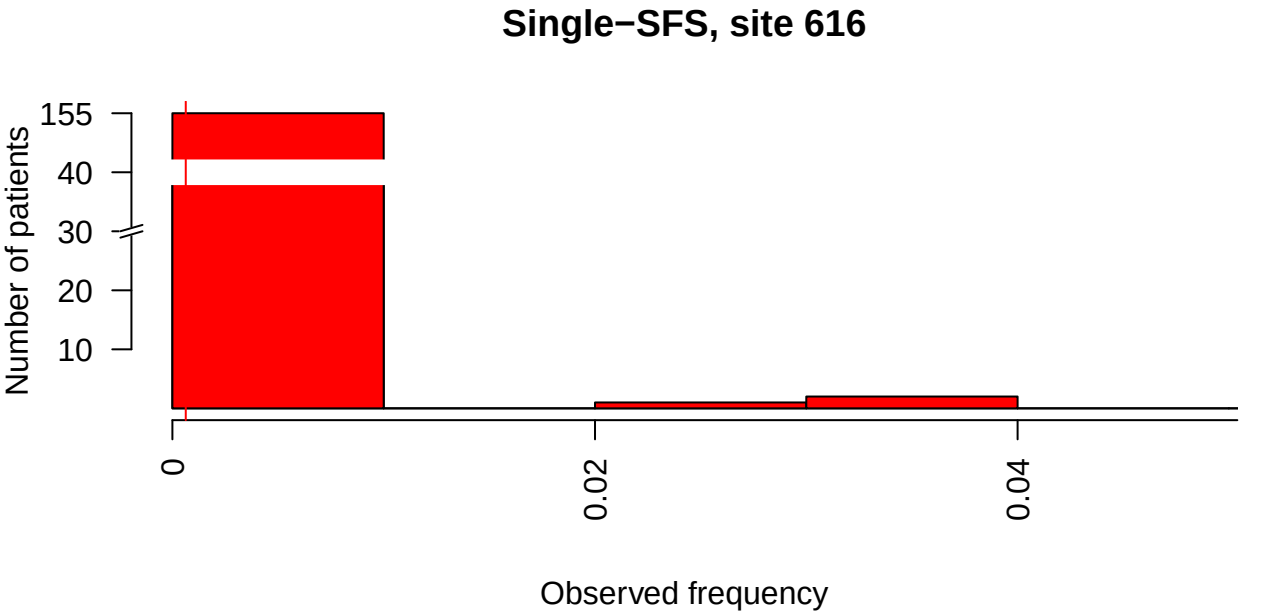

Simulated data, cost 0.0194
Number of patients
158
40
30
20
10
pvalue= 0.992
0
0.02
0.04
0.06
Observed frequency

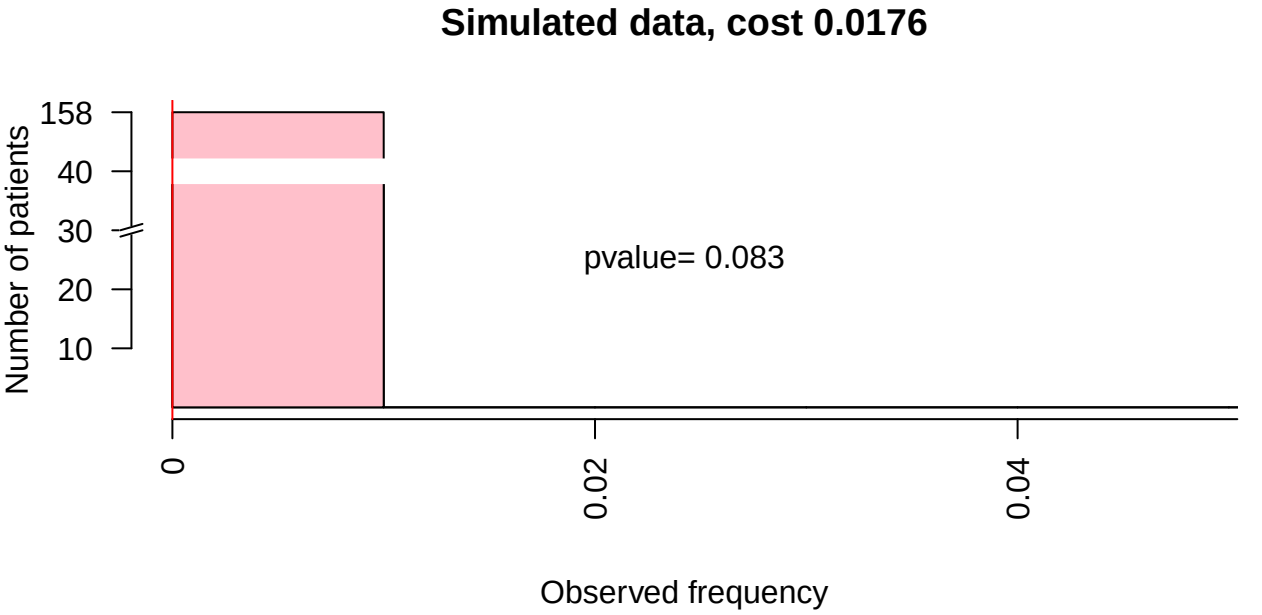

Single−SFS, site 611
Number of patients
160
40
30
20
10
0
Observed frequency

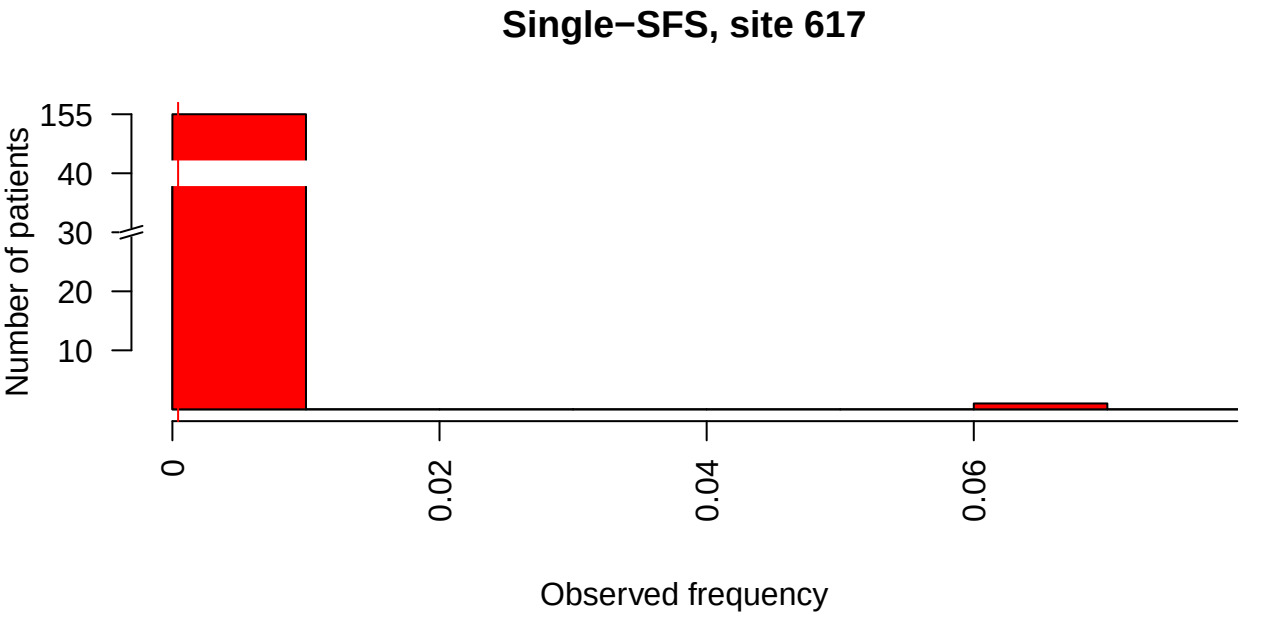

Simulated data, cost 1
Number of patients
160
40
30
20
10
0
pvalue= NaN
Observed frequency

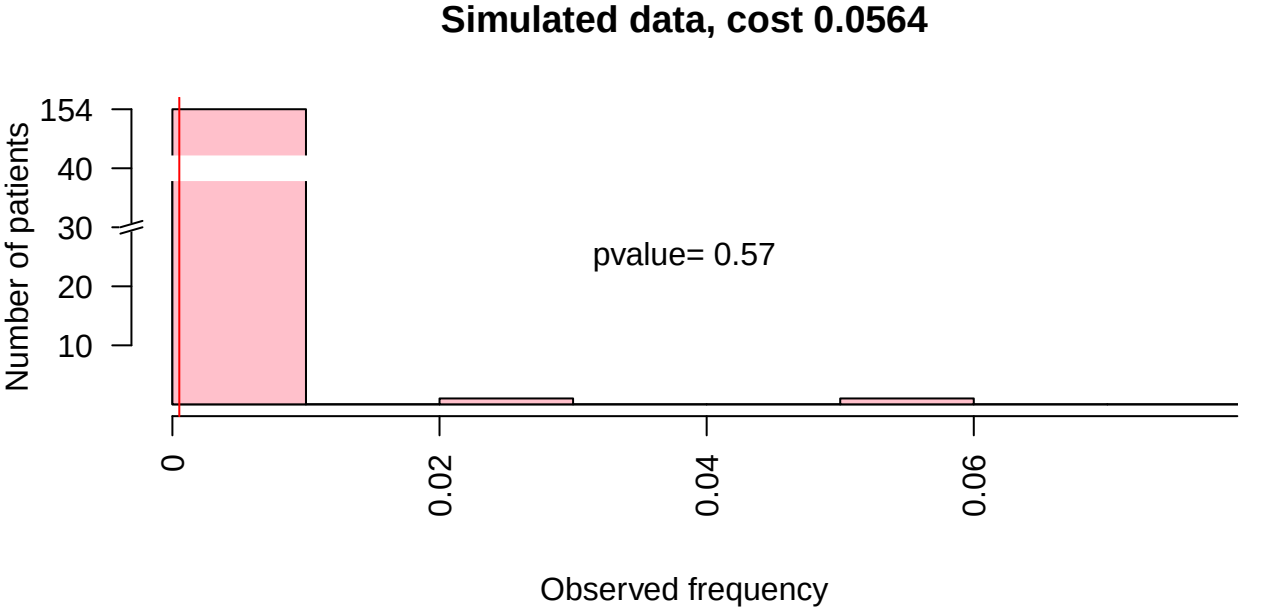

Single−SFS, site 612
Number of patients
144
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
Observed frequency

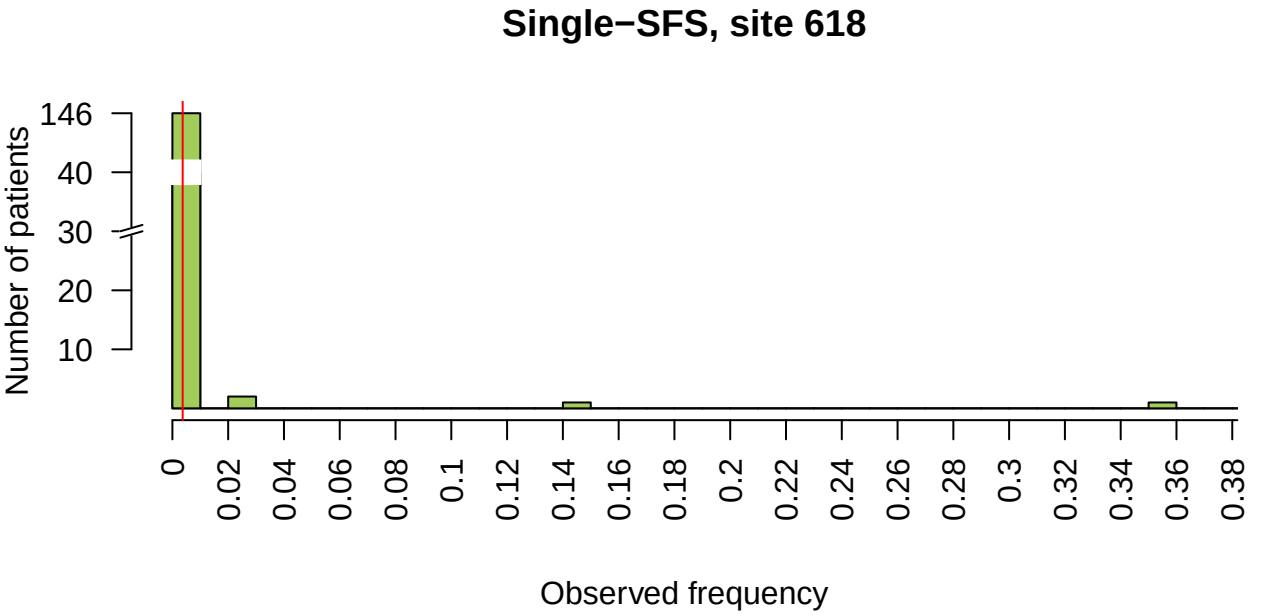

Simulated data, cost 0.0042
Number of patients
146
40
30
20
10
pvalue= 0.601
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
Observed frequency

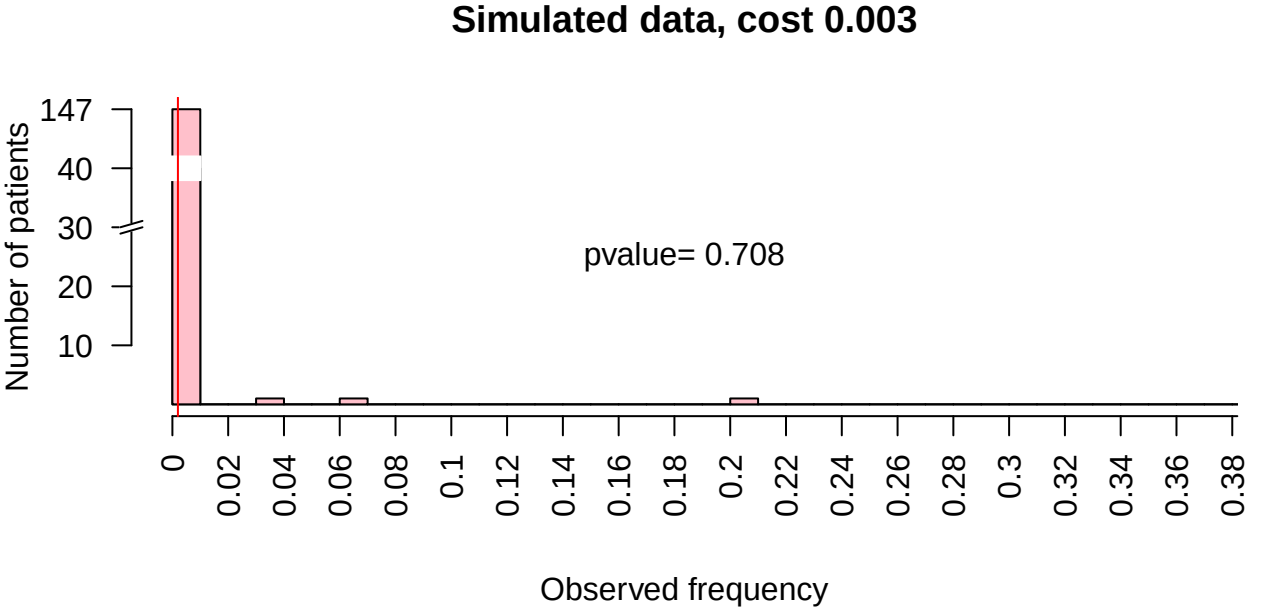

Single−SFS, site 616
Number of patients
155
40
30
20
10
0
0.02
0.04
Observed frequency

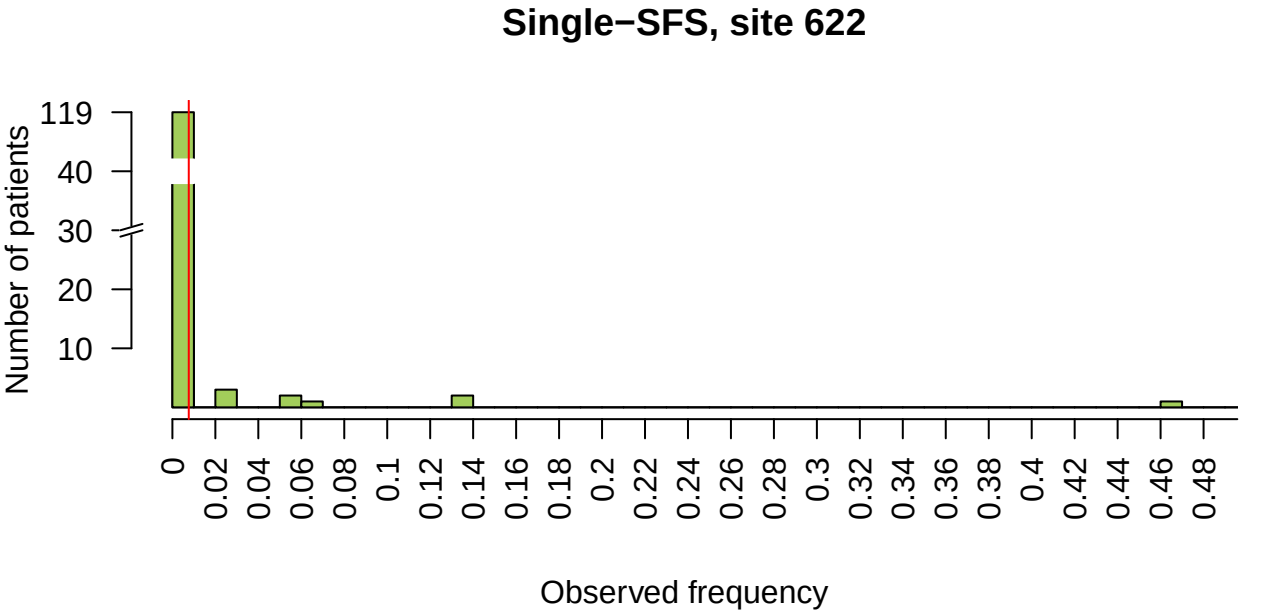

Simulated data, cost 0.0176
Number of patients
158
40
30
20
10
pvalue= 0.083
0
0.02
0.04
Observed frequency

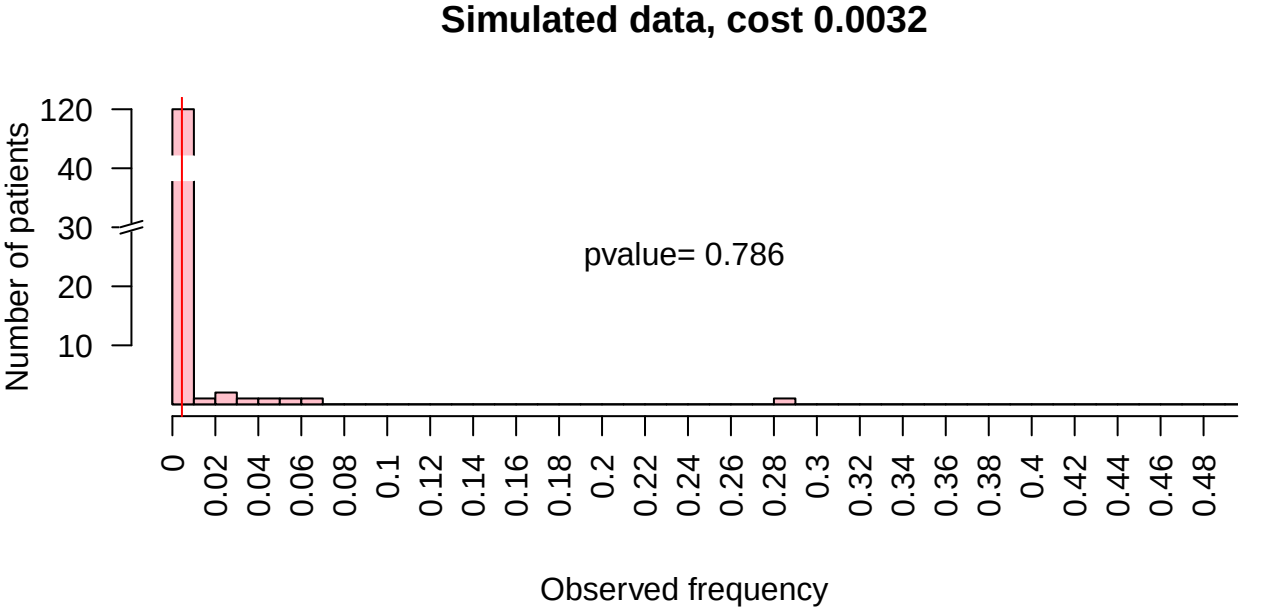

Single−SFS, site 617
Number of patients
155
40
30
20
10
0
0.02
0.04
0.06
Observed frequency

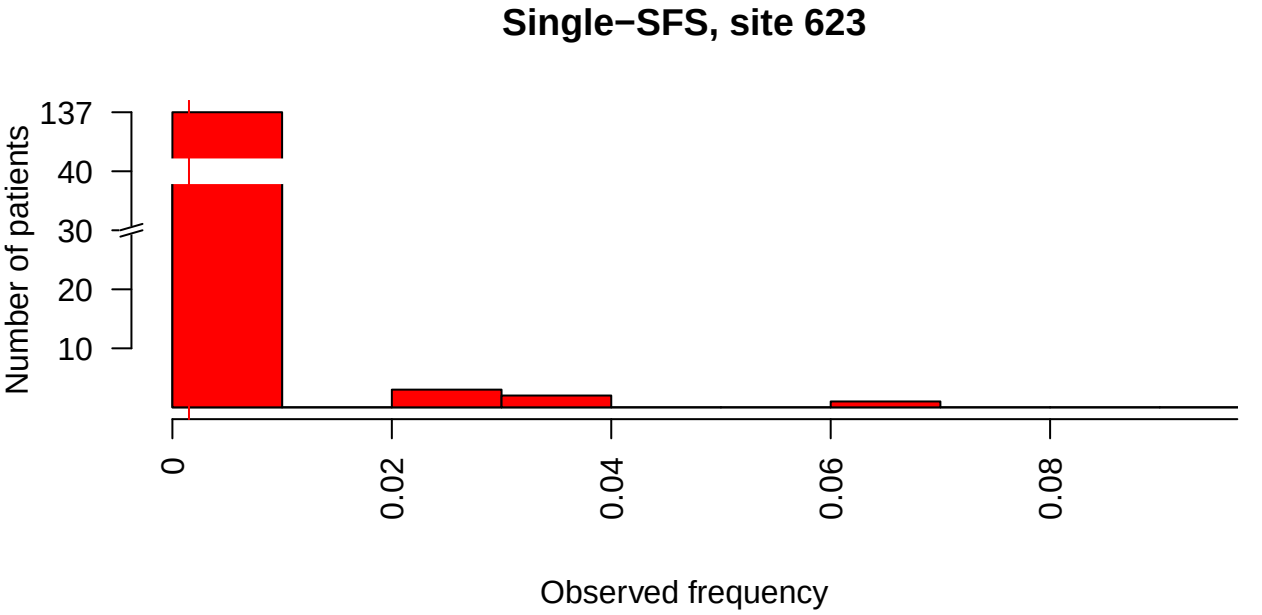

Simulated data, cost 0.0564
Number of patients
154
40
30
20
10
pvalue= 0.57
0
0.02
0.04
0.06
Observed frequency

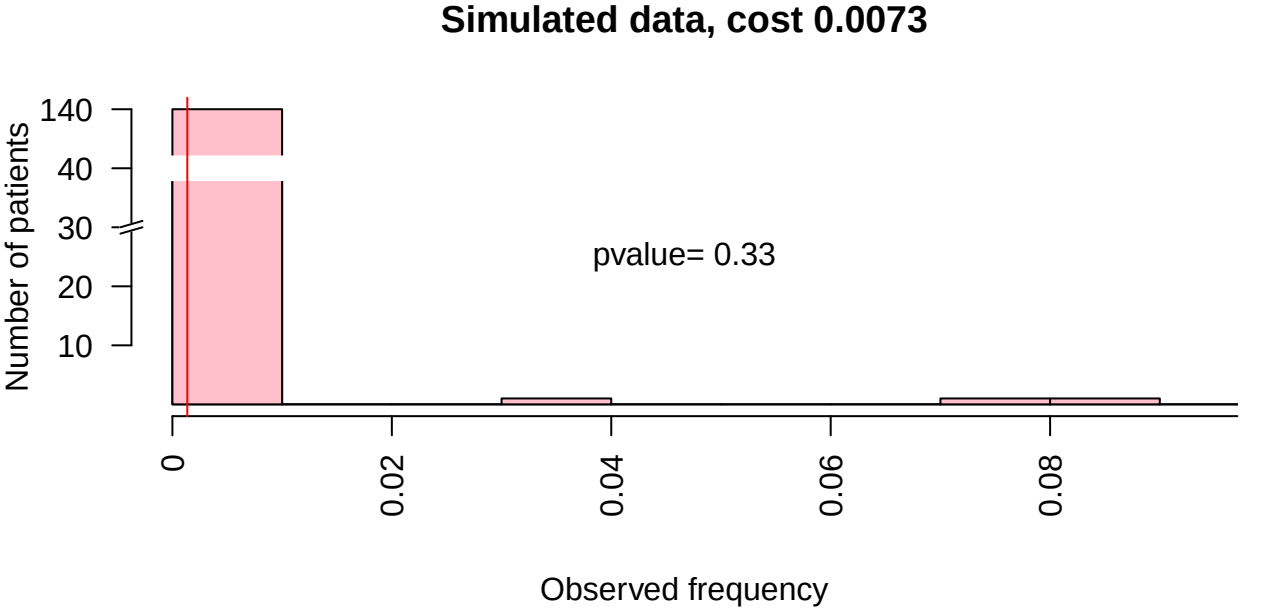

Single−SFS, site 618
Number of patients
146
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
0.24
0.26
0.28
0.3
0.32
0.34
0.36
0.38
Observed frequency

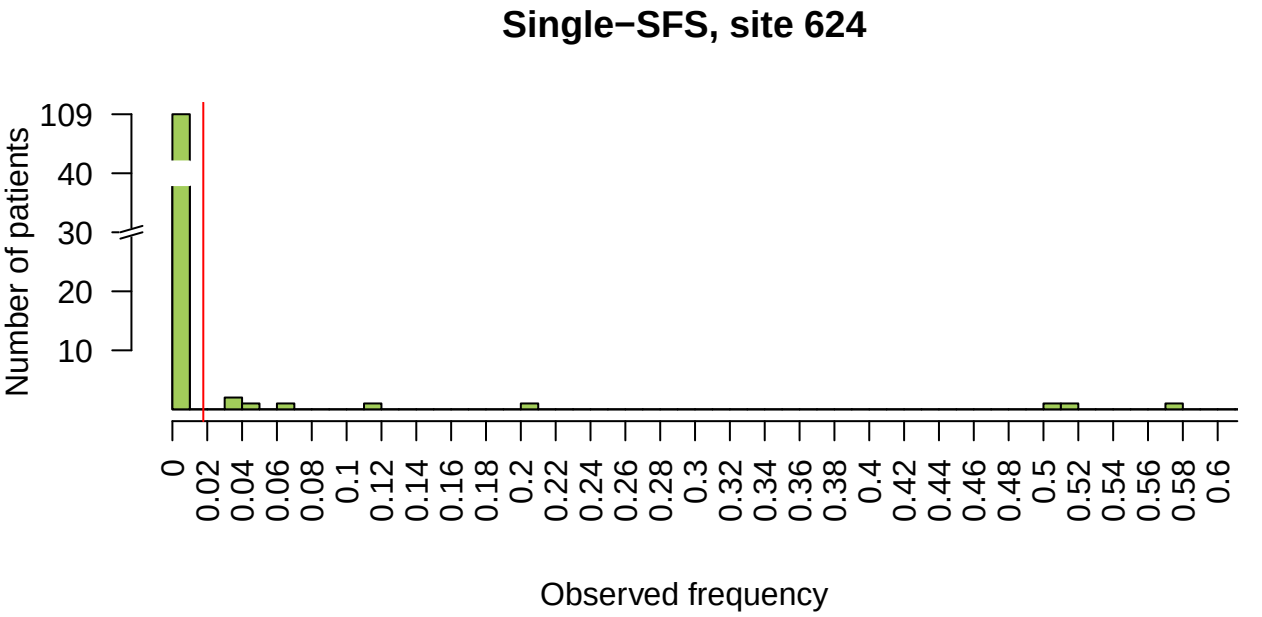

Simulated data, cost 0.003
Number of patients
147
40
30
20
10
pvalue= 0.708
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
0.24
0.26
0.28
0.3
0.32
0.34
0.36
0.38
Observed frequency

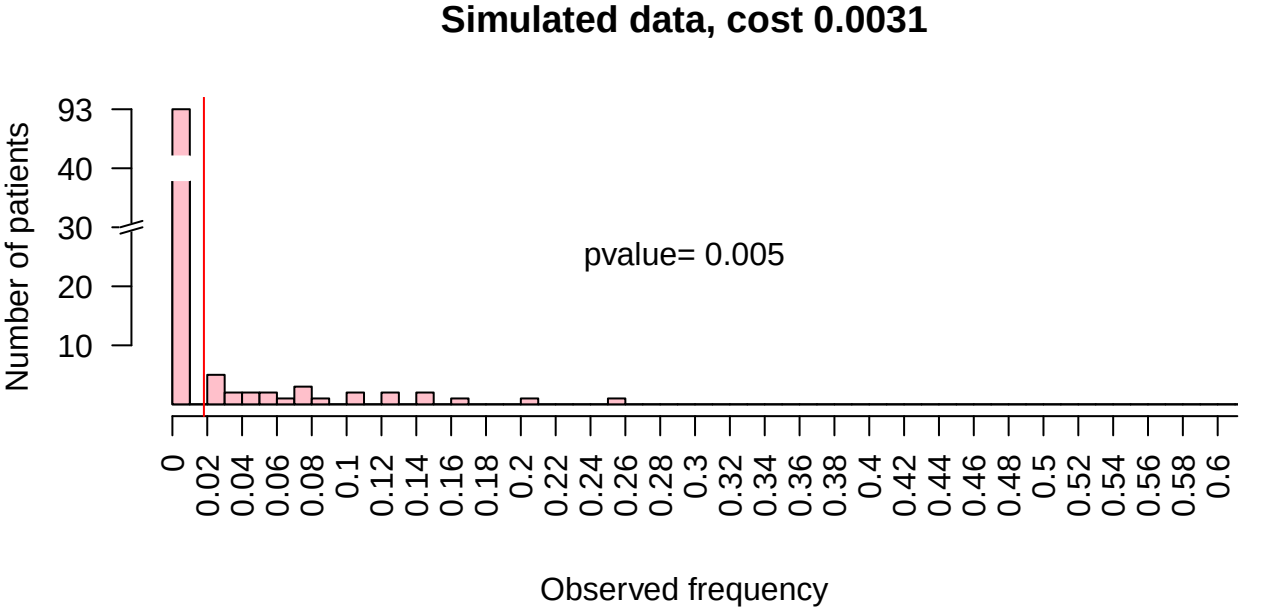

Single−SFS, site 622
Number of patients
119
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
0.24
0.26
0.28
0.3
0.32
0.34
0.36
0.38
0.4
0.42
0.44
0.46
0.48
Observed frequency

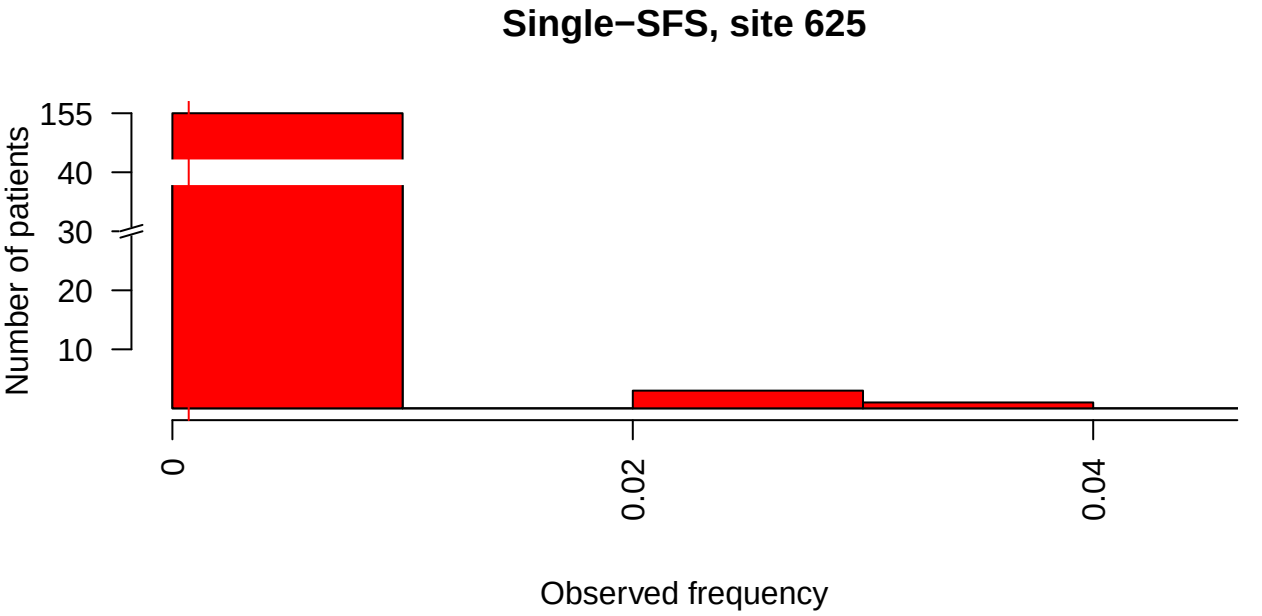

Simulated data, cost 0.0032
Number of patients
120
40
30
20
10
pvalue= 0.786
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
0.24
0.26
0.28
0.3
0.32
0.34
0.36
0.38
0.4
0.42
0.44
0.46
0.48
Observed frequency

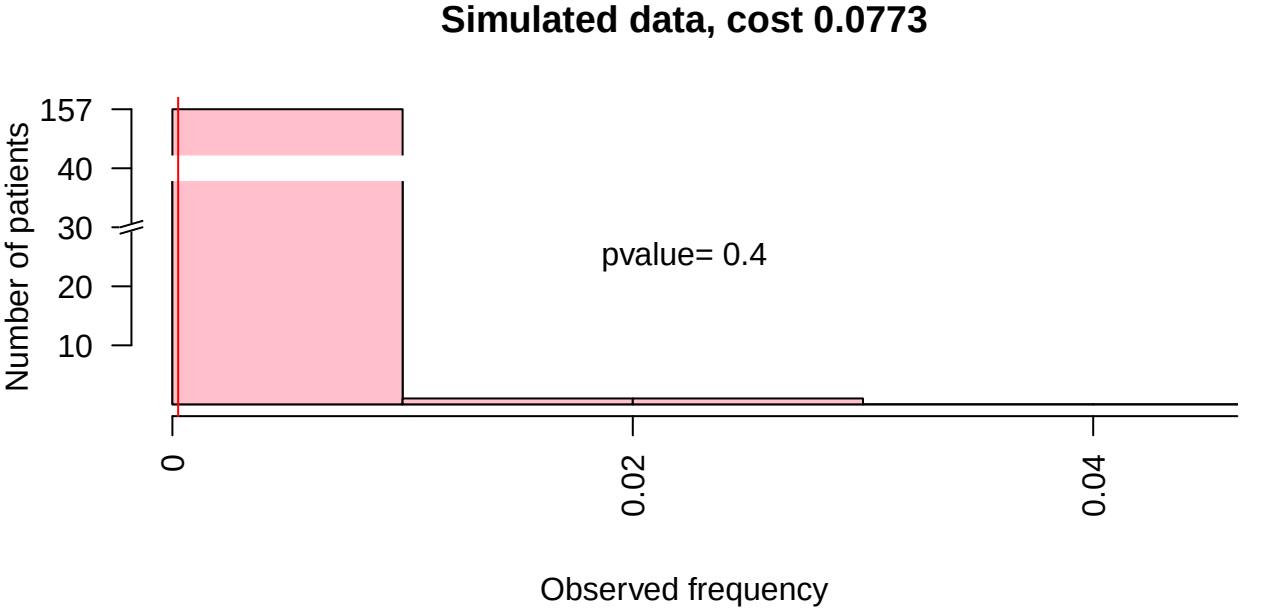

Single−SFS, site 623
Number of patients
137
40
30
20
10
0
0.02
0.04
0.06
0.08
Observed frequency

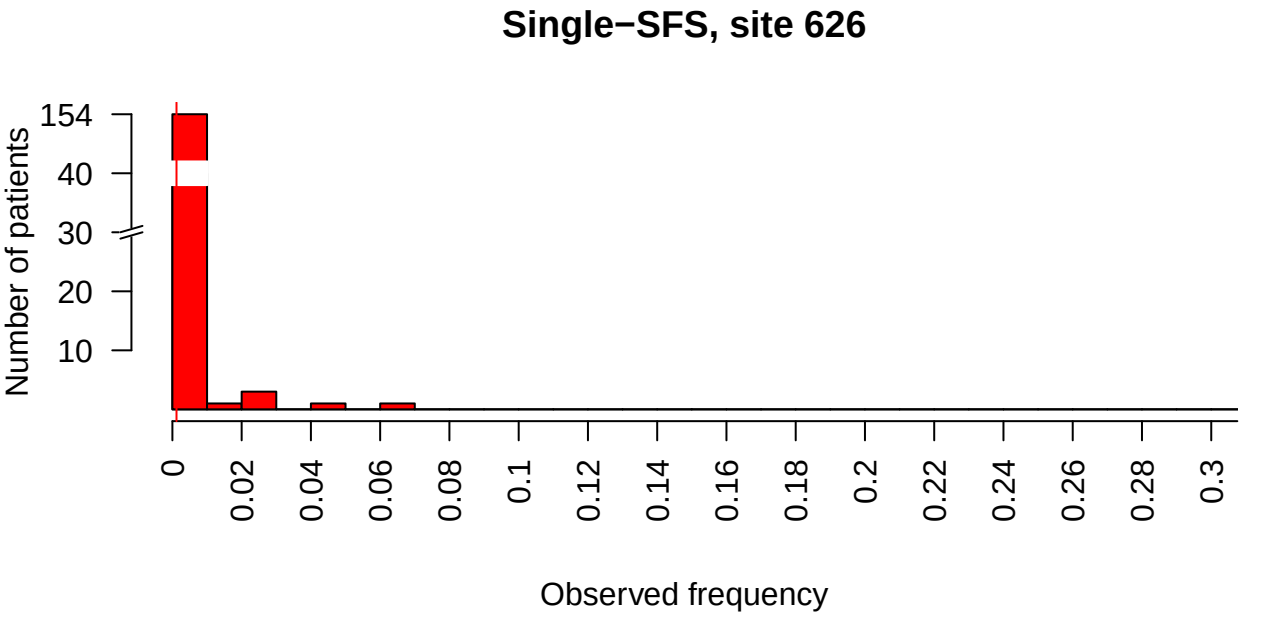

Simulated data, cost 0.0073
Number of patients
140
40
30
20
10
pvalue= 0.33
0
0.02
0.04
0.06
0.08
Observed frequency

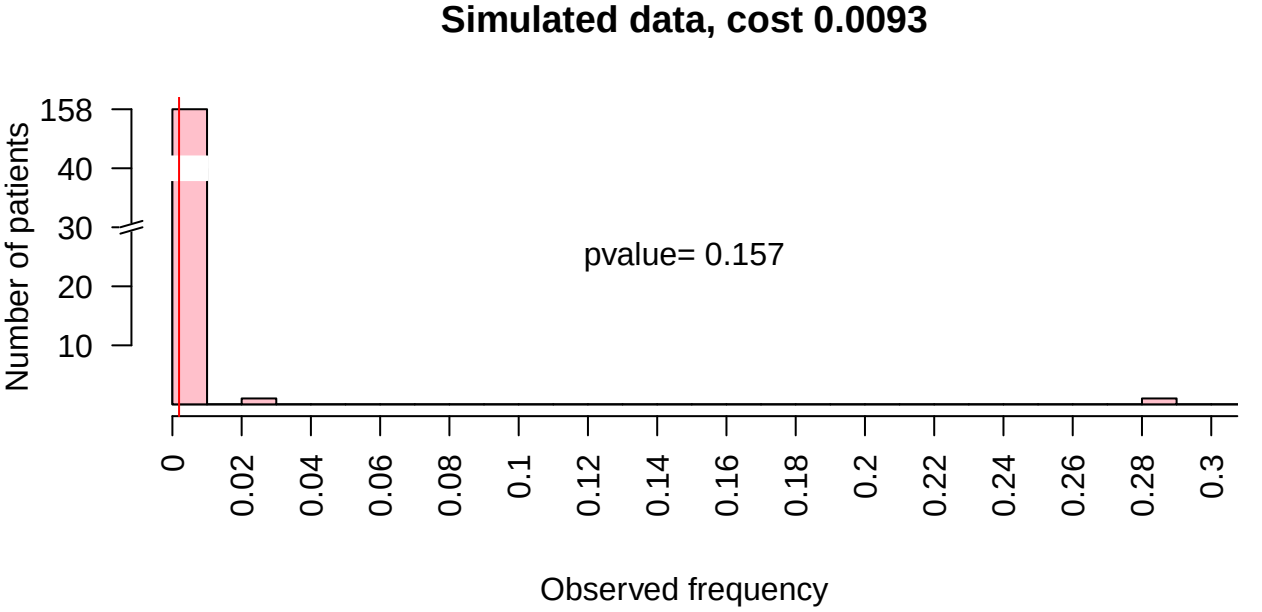

Single−SFS, site 624
Number of patients
109
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
0.24
0.26
0.28
0.3
0.32
0.34
0.36
0.38
0.4
0.42
0.44
0.46
0.48
0.5
0.52
0.54
0.56
0.58
0.6
Observed frequency

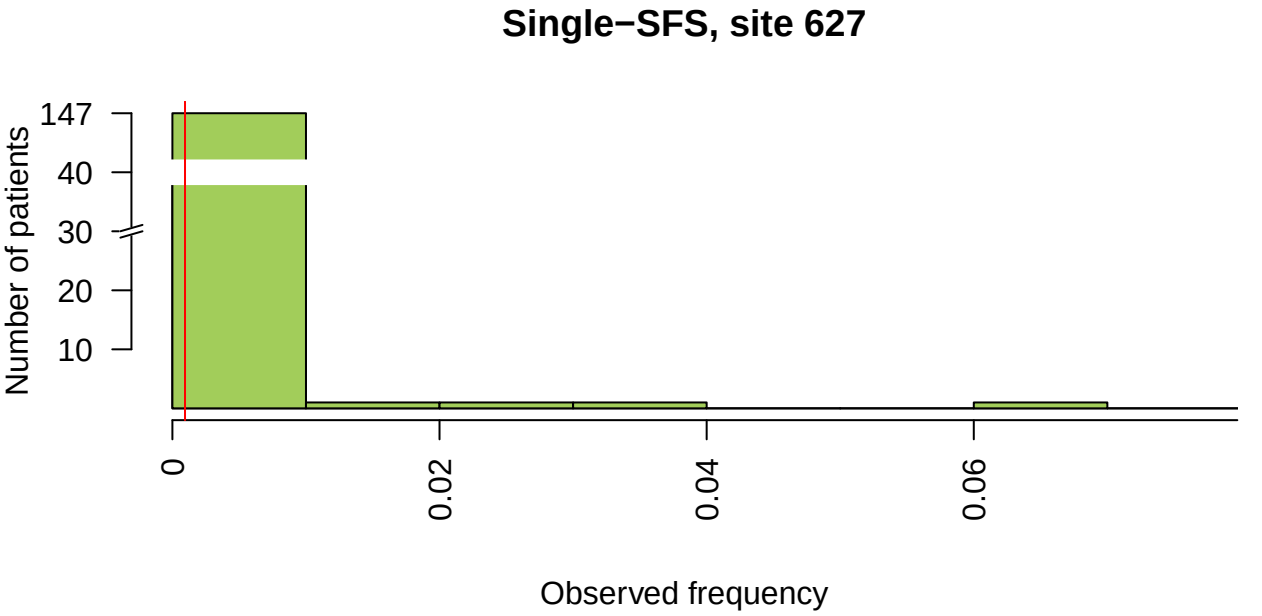

Simulated data, cost 0.0031
Number of patients
93
40
30
20
10
pvalue= 0.005
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
0.24
0.26
0.28
0.3
0.32
0.34
0.36
0.38
0.4
0.42
0.44
0.46
0.48
0.5
0.52
0.54
0.56
0.58
0.6
Observed frequency

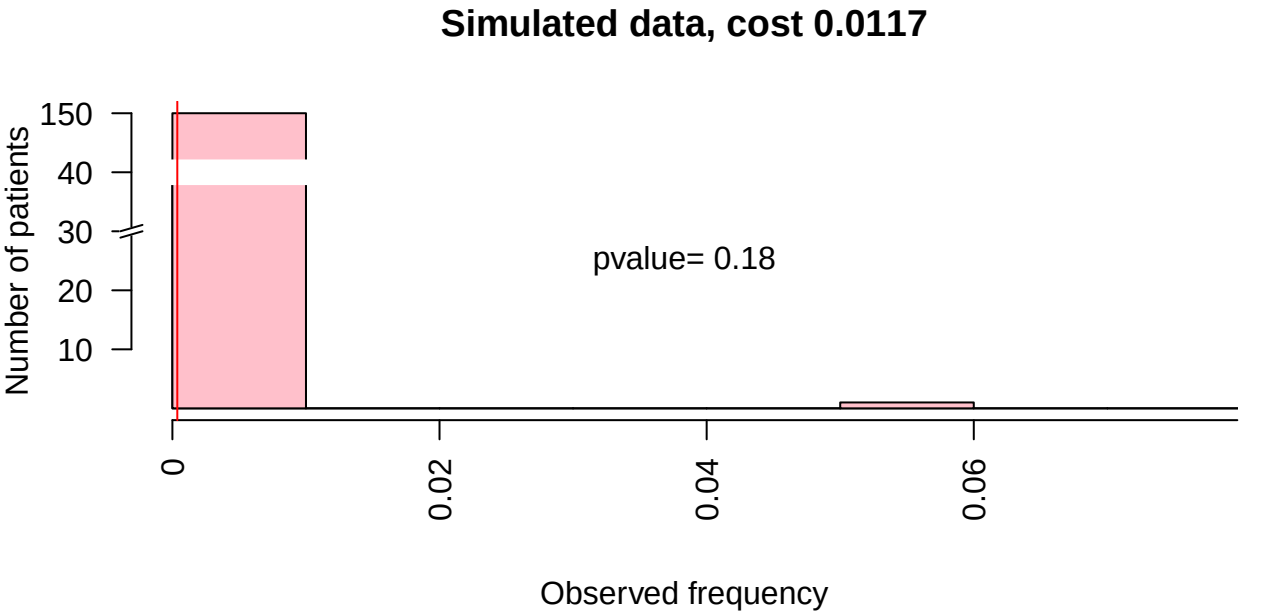

Single−SFS, site 625
Number of patients
155
40
30
20
10
0
0.02
0.04
Observed frequency

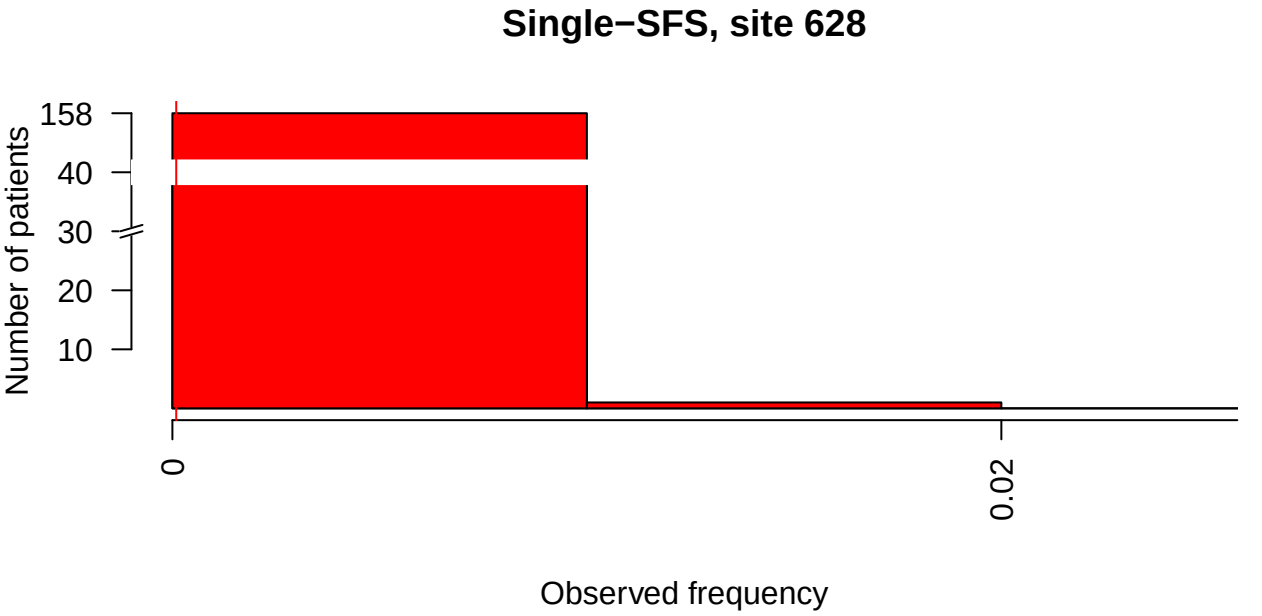

Simulated data, cost 0.0773
Number of patients
157
40
30
20
10
pvalue= 0.4
0
0.02
0.04
Observed frequency

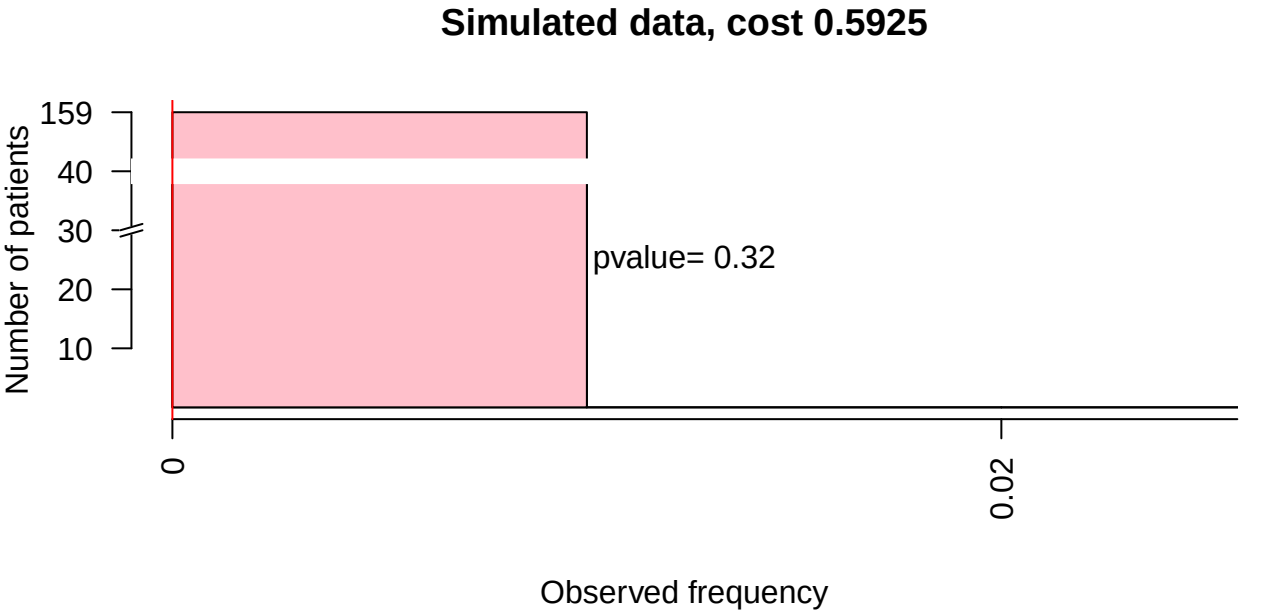

Single−SFS, site 626
Number of patients
154
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
0.24
0.26
0.28
0.3
Observed frequency

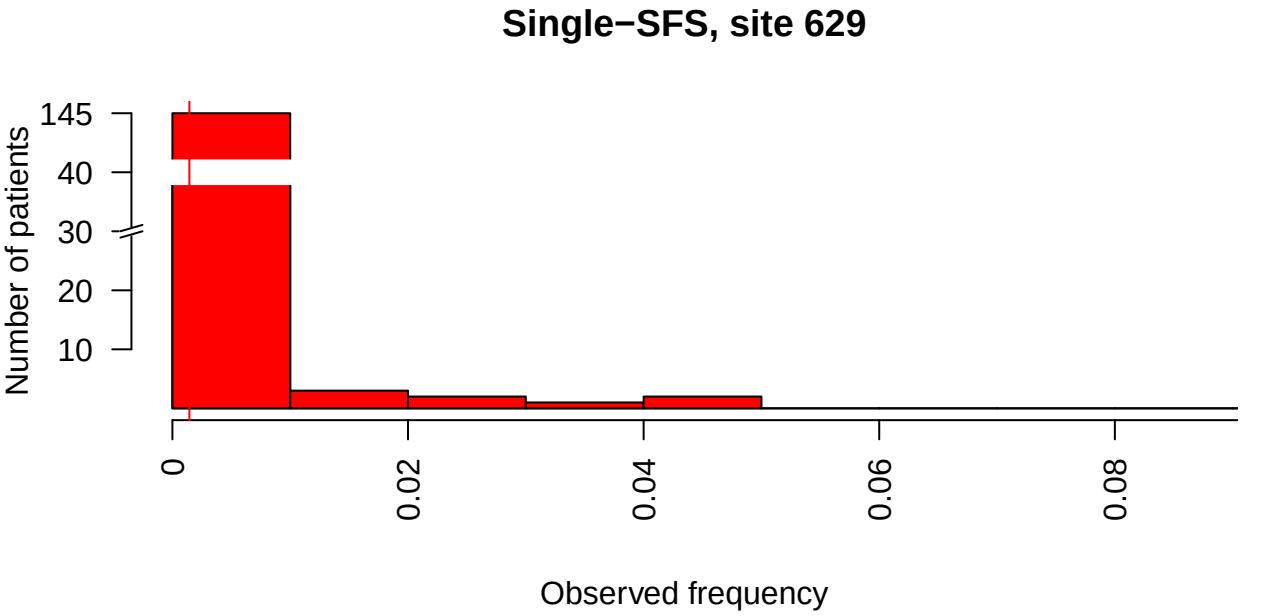

Simulated data, cost 0.0093
Number of patients
158
40
30
20
10
pvalue= 0.157
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
0.24
0.26
0.28
0.3
Observed frequency

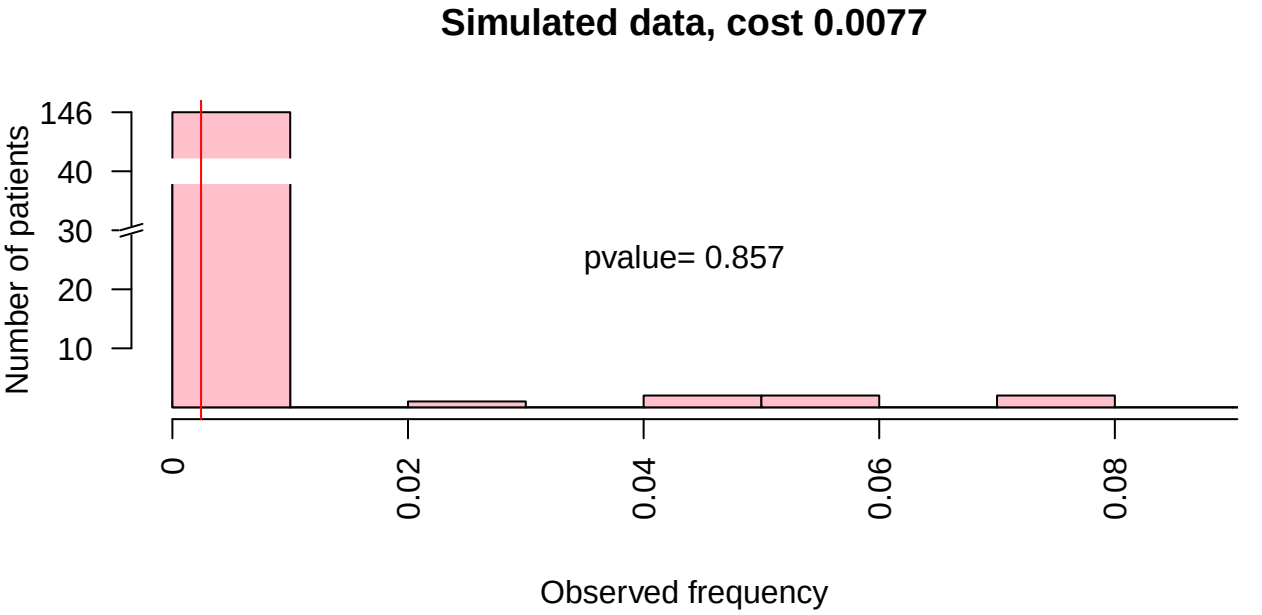

Single−SFS, site 627
Number of patients
147
40
30
20
10
0
0.02
0.04
0.06
Observed frequency

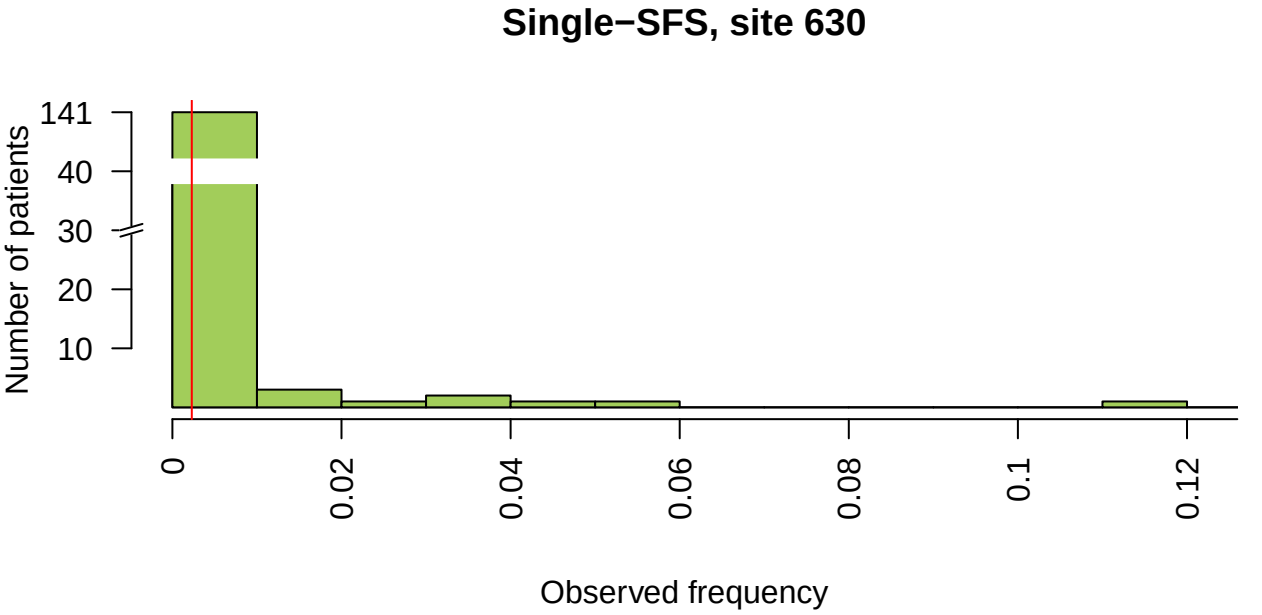

Simulated data, cost 0.0117
Number of patients
150
40
30
20
10
pvalue= 0.18
0
0.02
0.04
0.06
Observed frequency

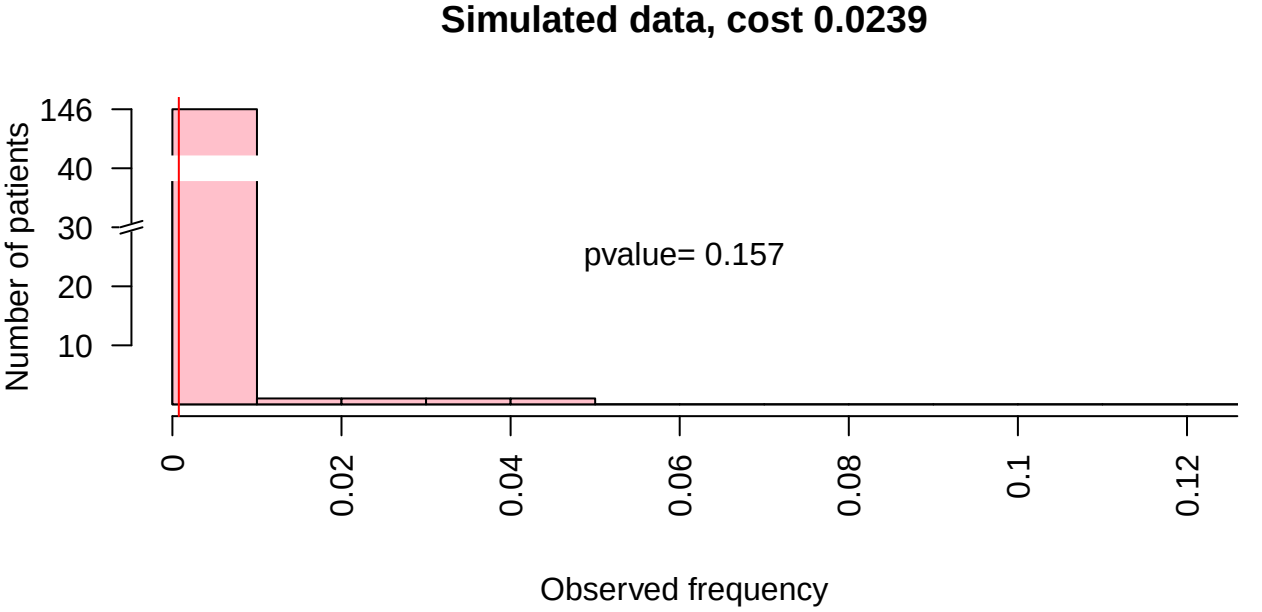

Single−SFS, site 628
Number of patients
158
40
30
20
10
0
0.02
Observed frequency

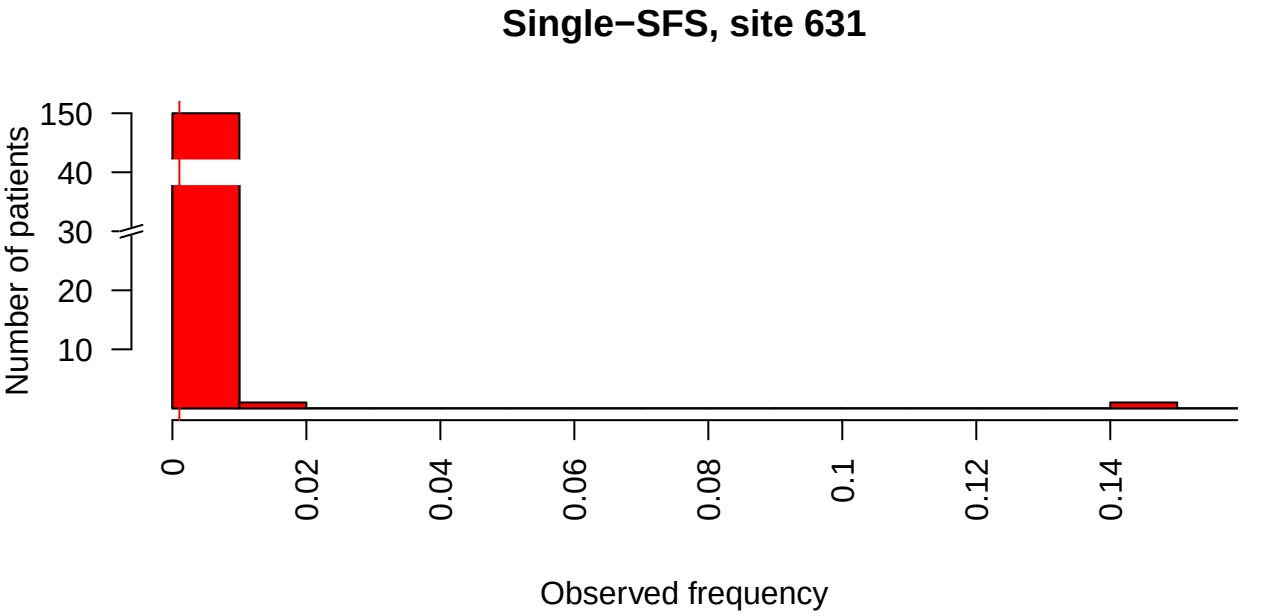

Simulated data, cost 0.5925
Number of patients
159
40
30
20
10
pvalue= 0.32
0
0.02
Observed frequency

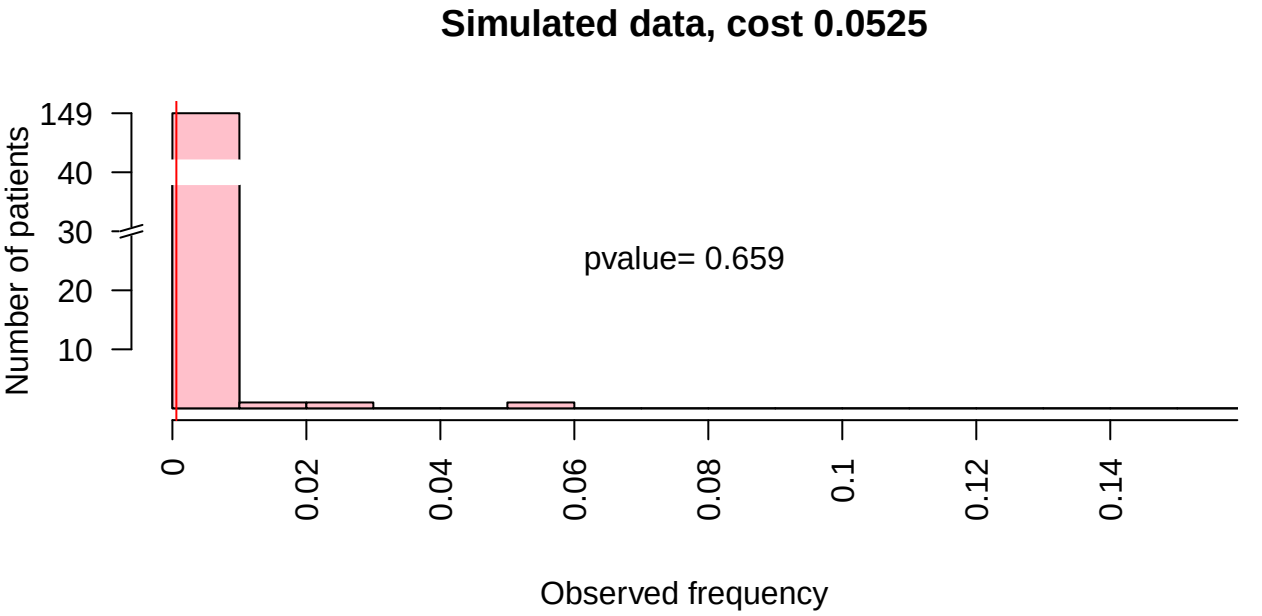

Single−SFS, site 629
Number of patients
145
40
30
20
10
0
0.02
0.04
0.06
0.08
Observed frequency

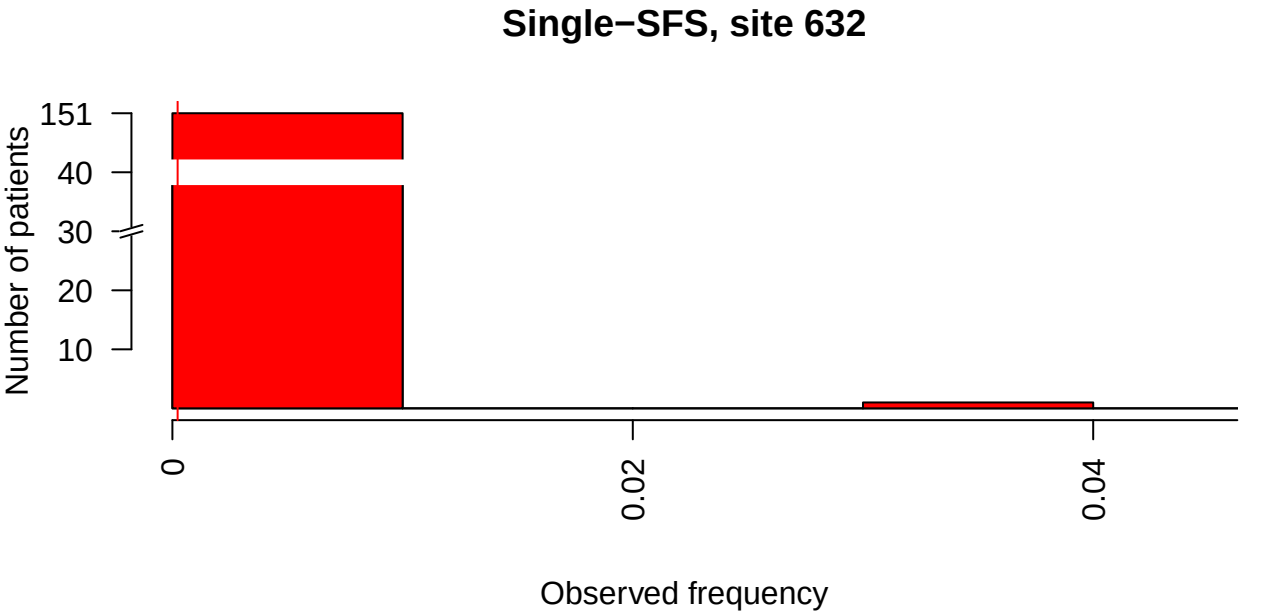

Simulated data, cost 0.0077
Number of patients
146
40
30
20
10
pvalue= 0.857
0
0.02
0.04
0.06
0.08
Observed frequency

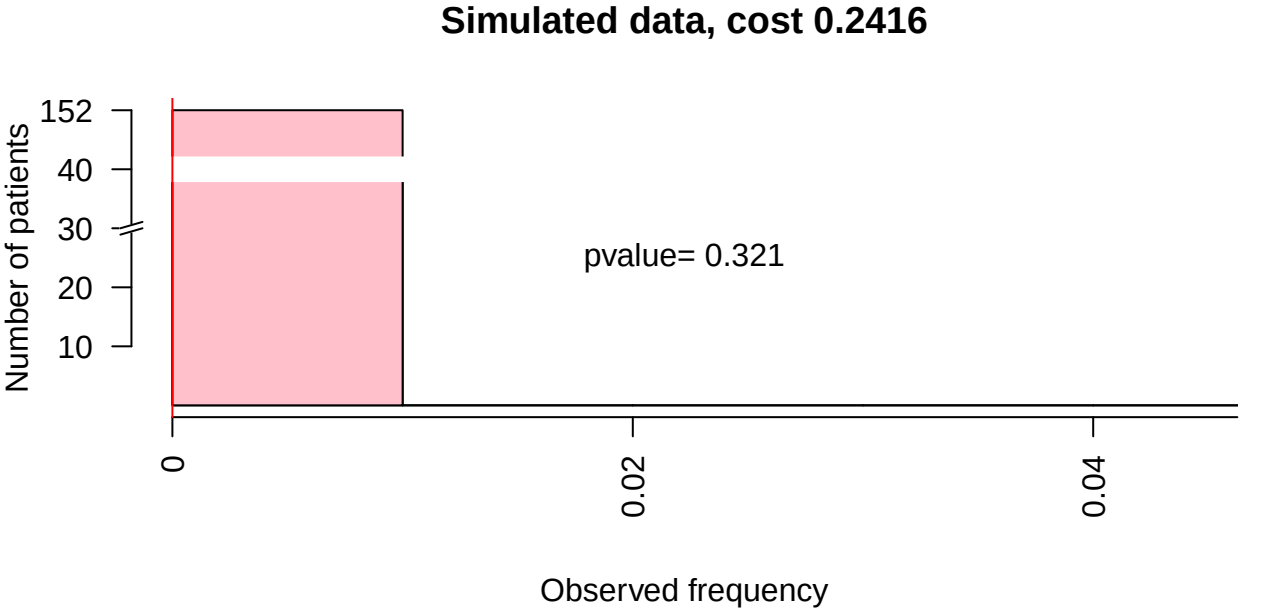

Single−SFS, site 630
Number of patients
141
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
Observed frequency

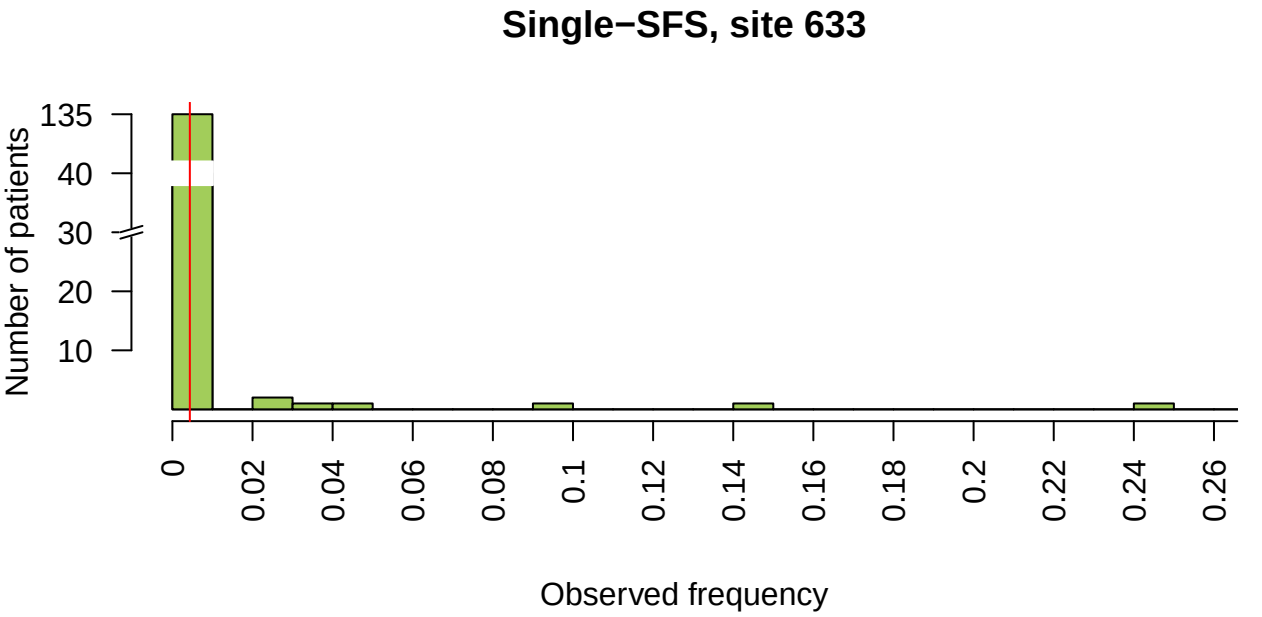

Simulated data, cost 0.0239
Number of patients
146
40
30
20
10
pvalue= 0.157
0
0.02
0.04
0.06
0.08
0.1
0.12
Observed frequency

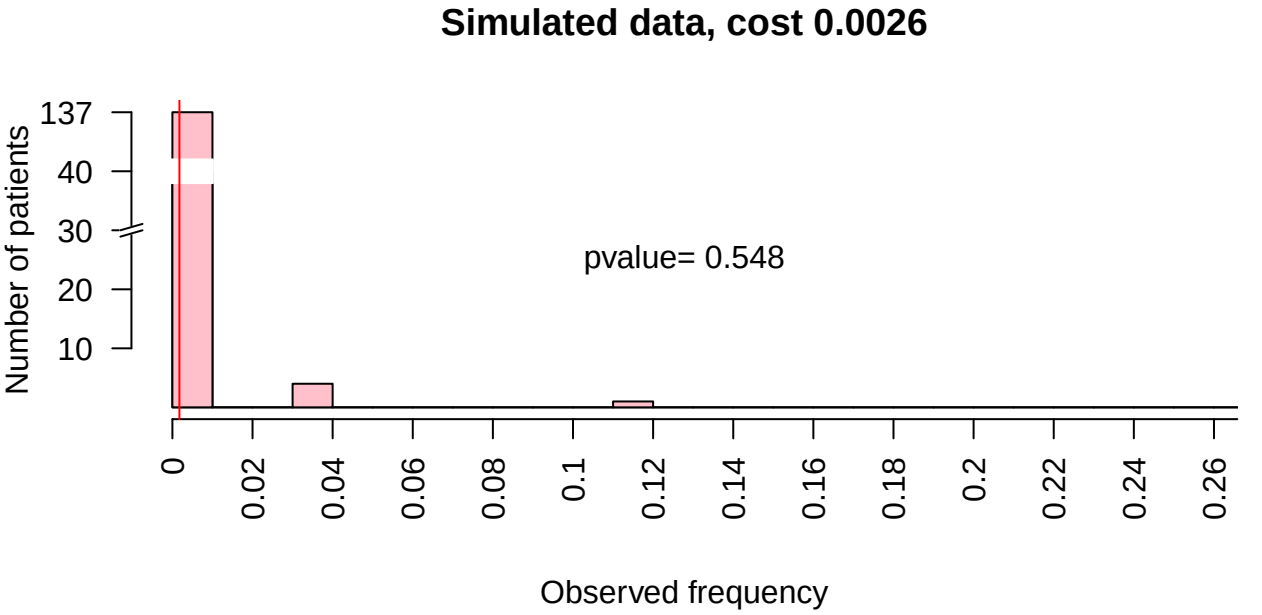

Single−SFS, site 631
Number of patients
150
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
Observed frequency

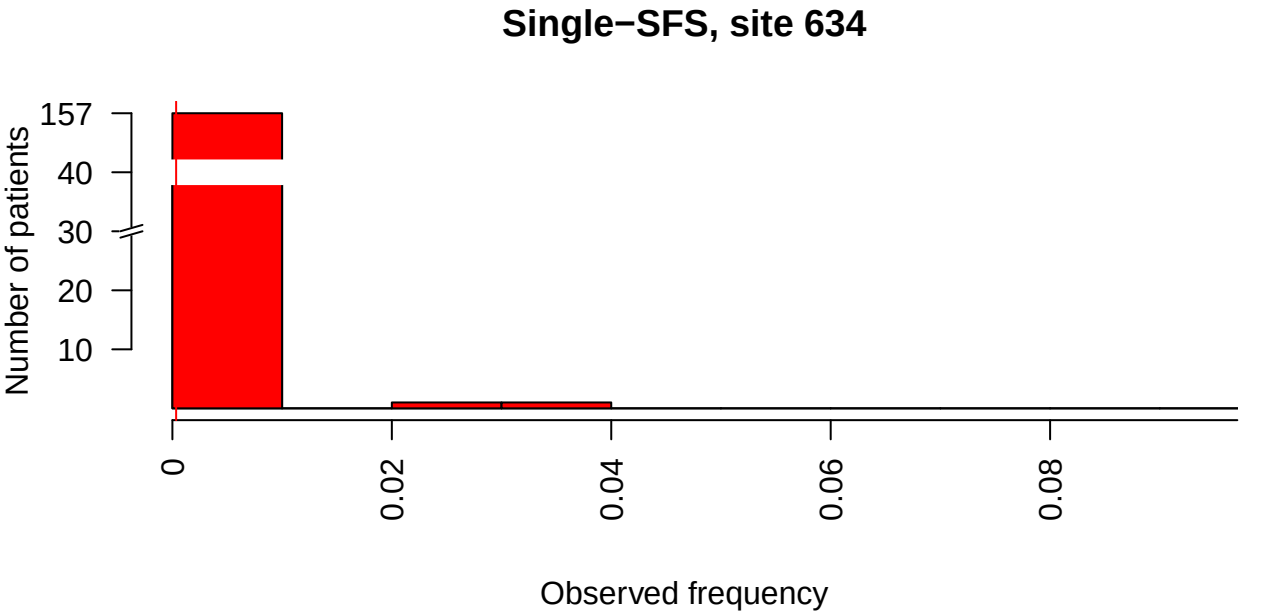

Simulated data, cost 0.0525
Number of patients
149
40
30
20
10
pvalue= 0.659
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
Observed frequency

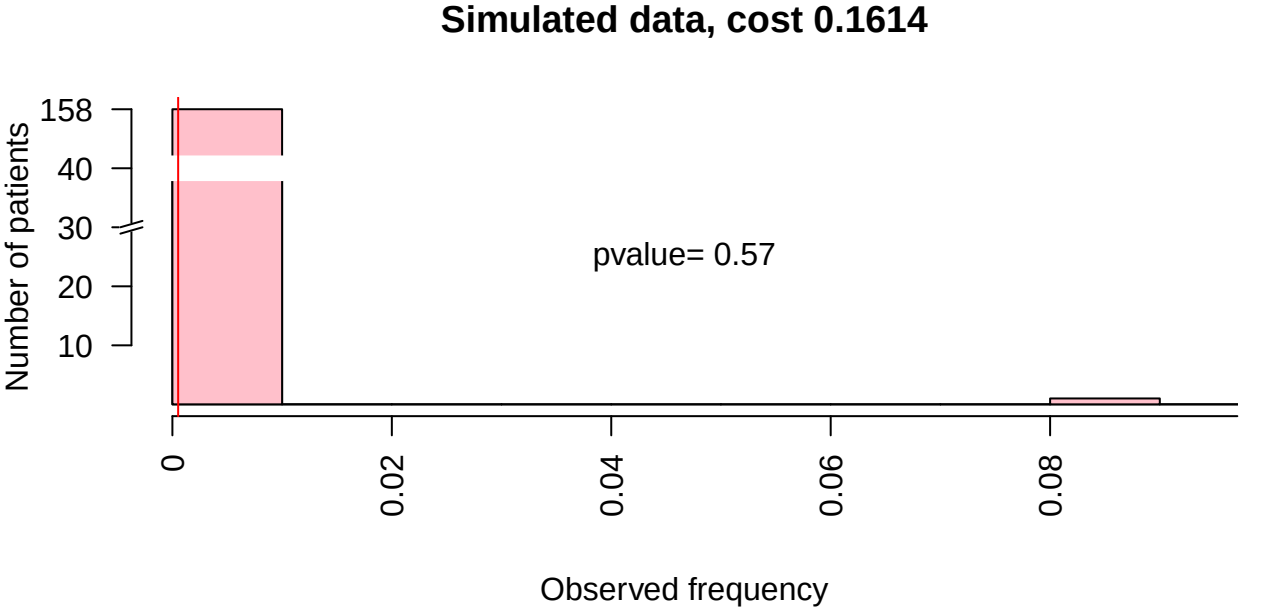

Single−SFS, site 632
Number of patients
151
40
30
20
10
0
0.02
0.04
Observed frequency

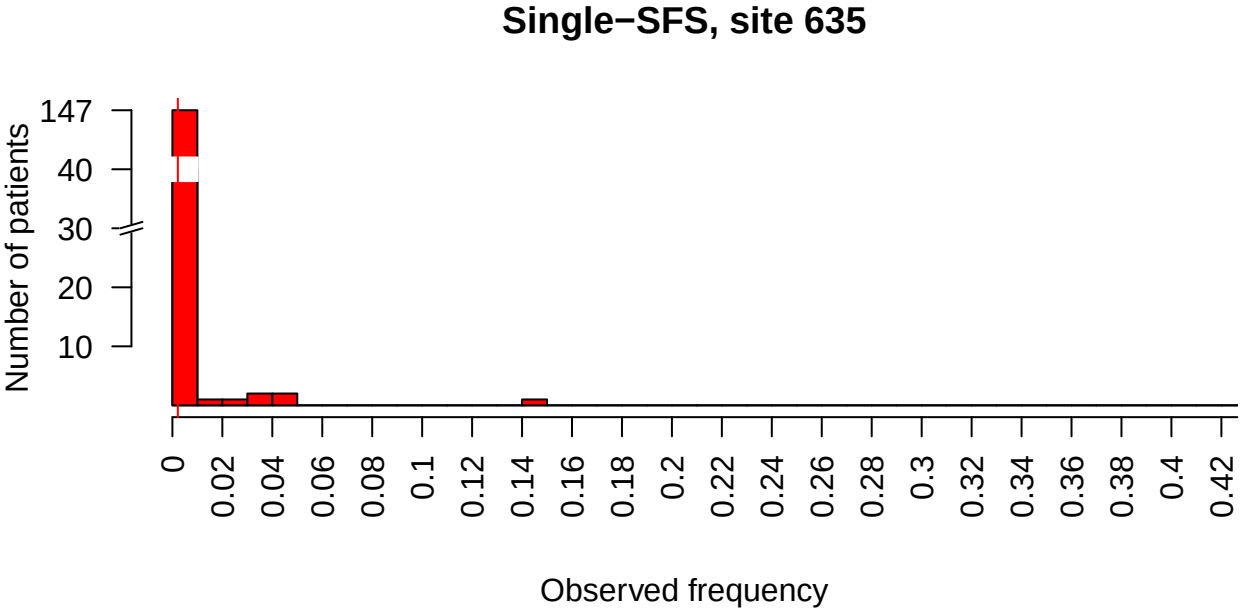

Simulated data, cost 0.2416
Number of patients
152
40
30
20
10
pvalue= 0.321
0
0.02
0.04
Observed frequency

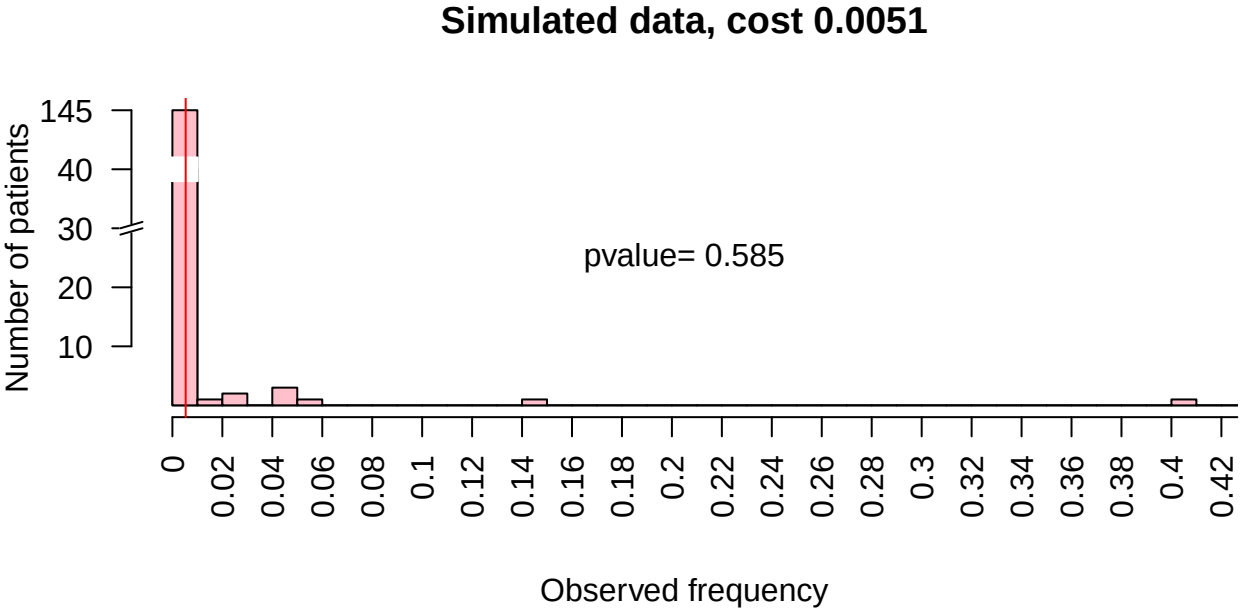

Single−SFS, site 633
Number of patients
135
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
0.24
0.26
Observed frequency

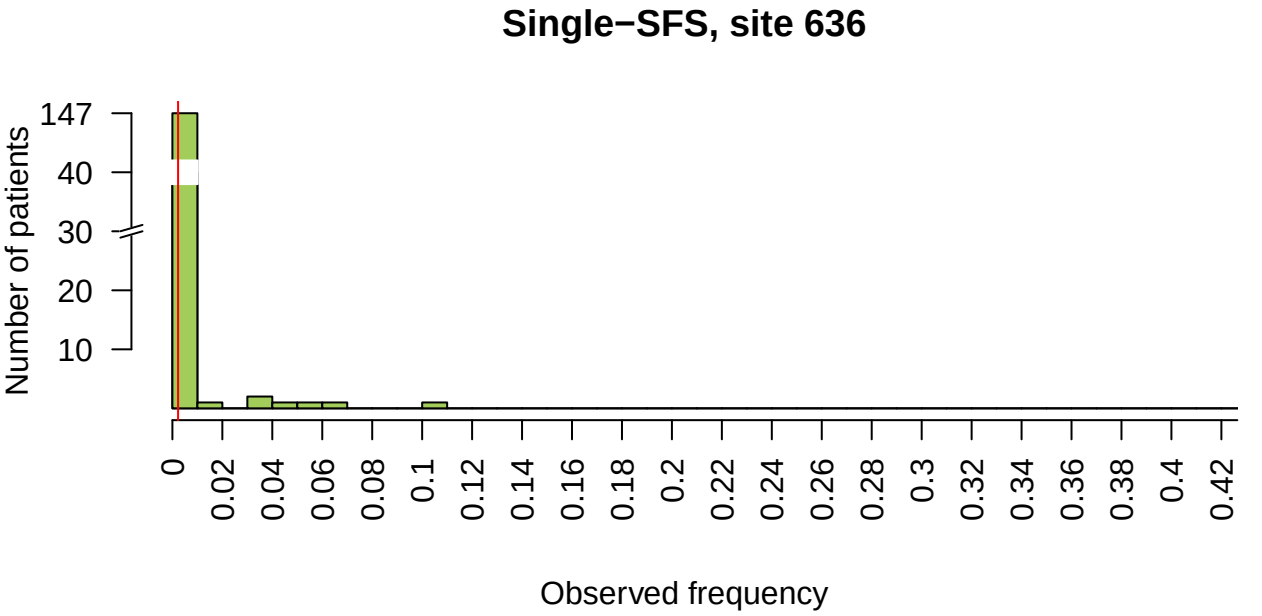

Simulated data, cost 0.0026
Number of patients
137
40
30
20
10
pvalue= 0.548
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
0.24
0.26
Observed frequency

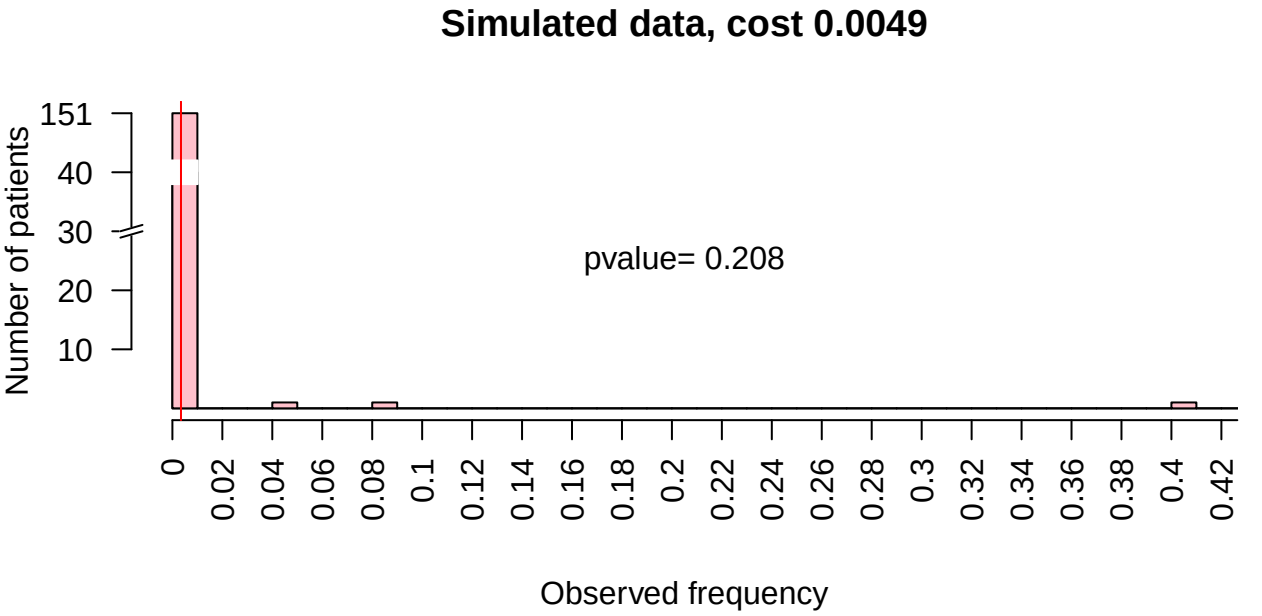

Single−SFS, site 634
Number of patients
157
40
30
20
10
0
0.02
0.04
0.06
0.08
Observed frequency

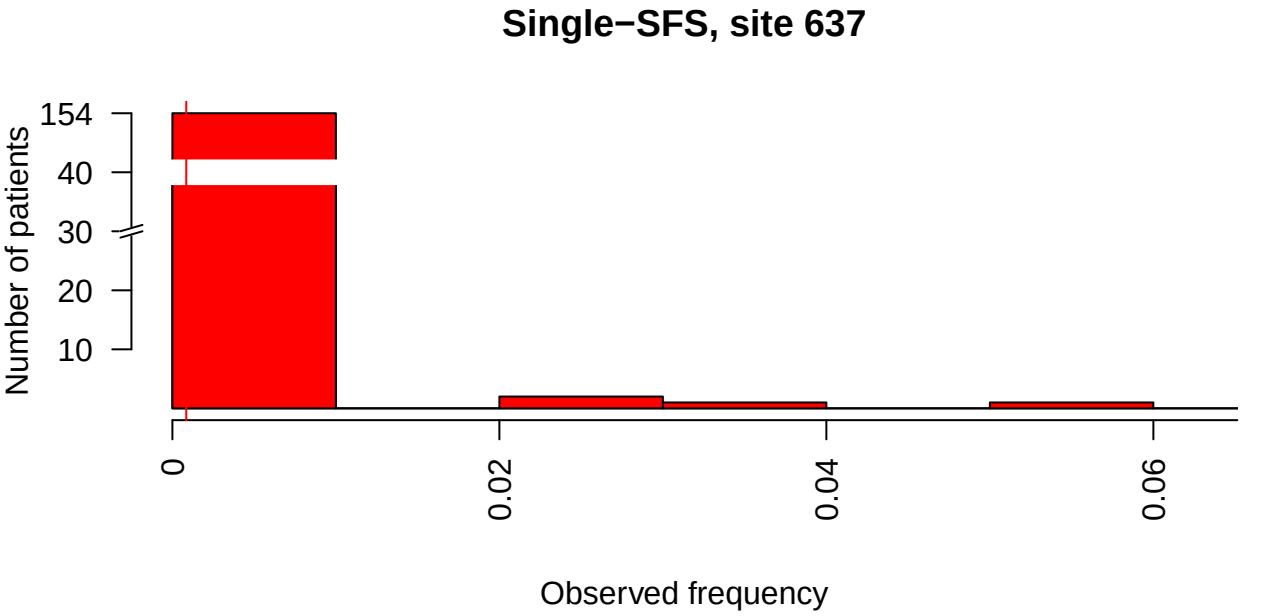

Simulated data, cost 0.1614
Number of patients
158
40
30
20
10
pvalue= 0.57
0
0.02
0.04
0.06
0.08
Observed frequency

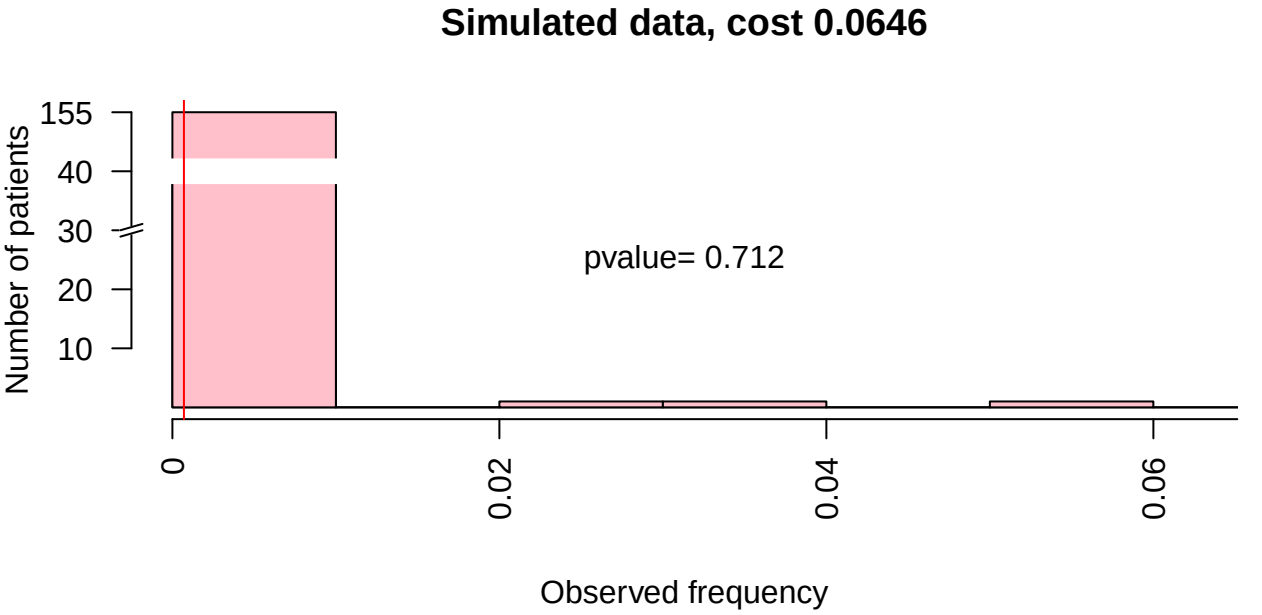

Single−SFS, site 635
Number of patients
147
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
0.24
0.26
0.28
0.3
0.32
0.34
0.36
0.38
0.4
0.42
Observed frequency

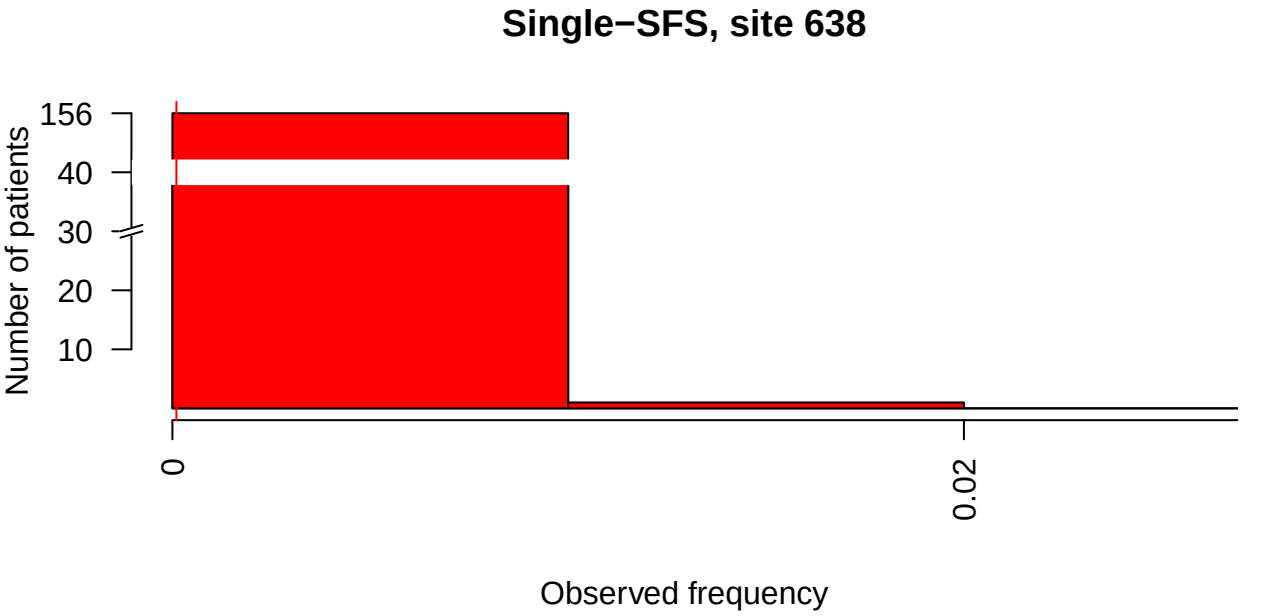

Simulated data, cost 0.0051
Number of patients
145
40
30
20
10
pvalue= 0.585
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
0.24
0.26
0.28
0.3
0.32
0.34
0.36
0.38
0.4
0.42
Observed frequency

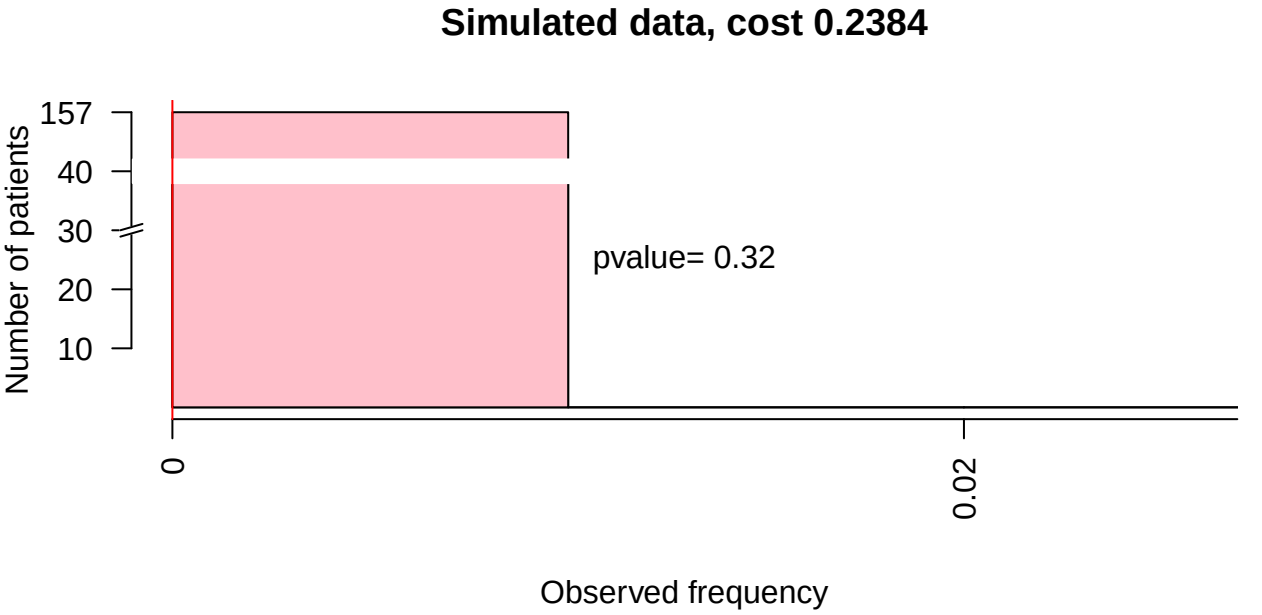

Single−SFS, site 636
Number of patients
147
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
0.24
0.26
0.28
0.3
0.32
0.34
0.36
0.38
0.4
0.42
Observed frequency

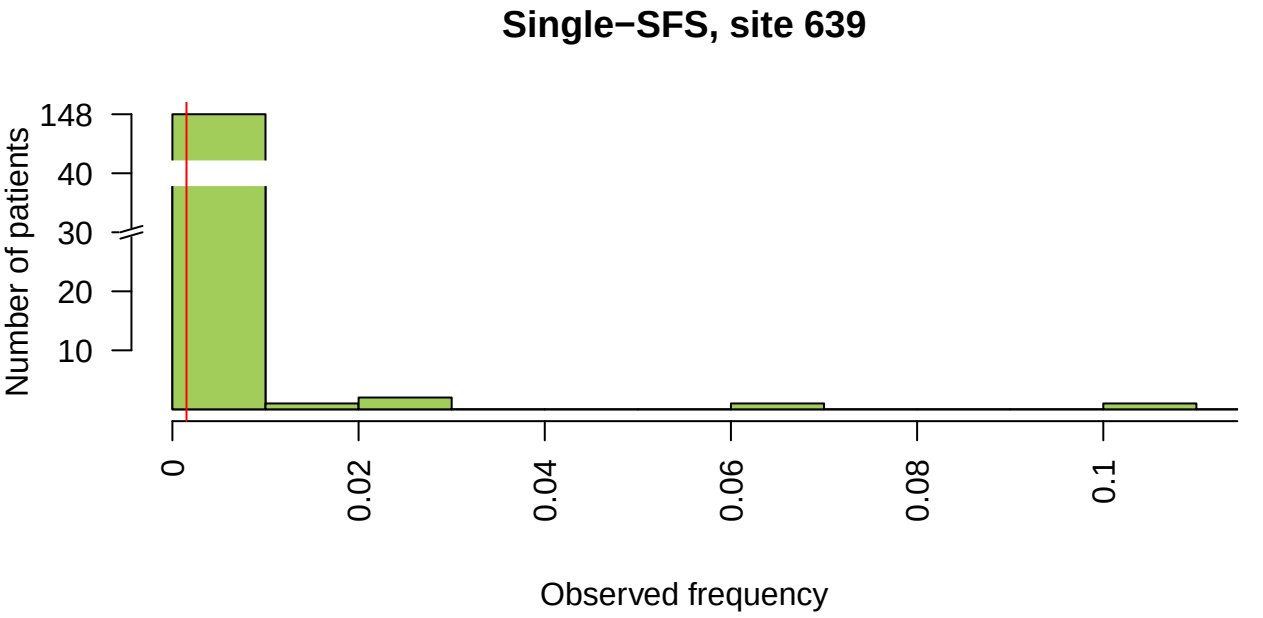

Simulated data, cost 0.0049
Number of patients
151
40
30
20
10
pvalue= 0.208
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
0.24
0.26
0.28
0.3
0.32
0.34
0.36
0.38
0.4
0.42
Observed frequency

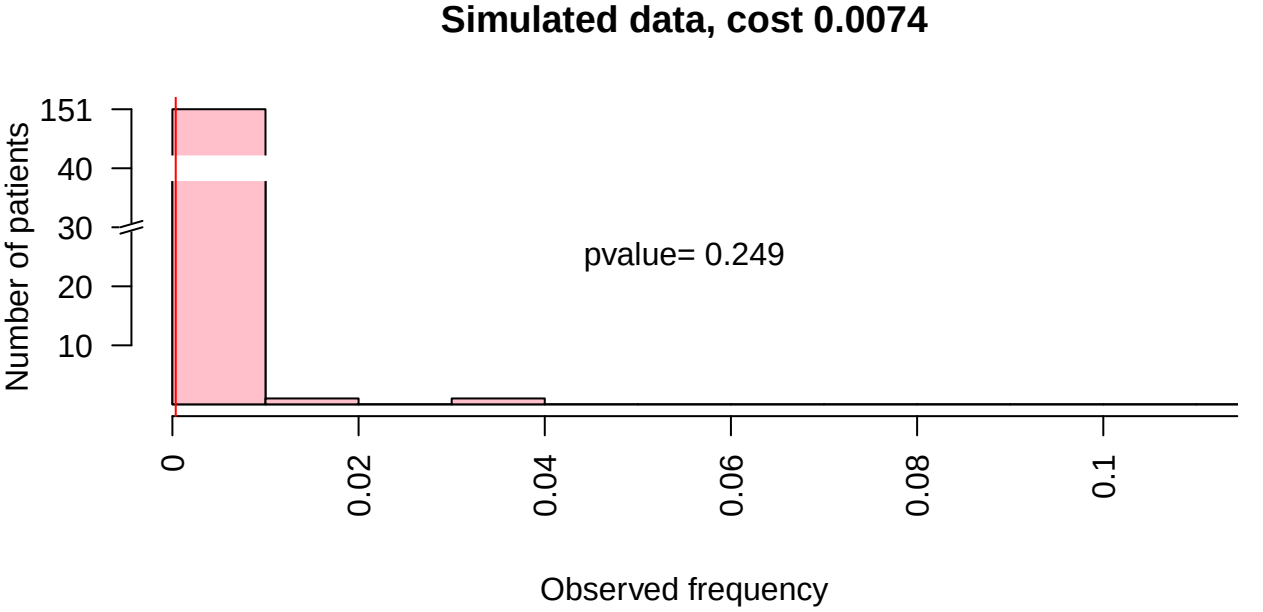

Single−SFS, site 637
Number of patients
154
40
30
20
10
0
0.02
0.04
0.06
Observed frequency

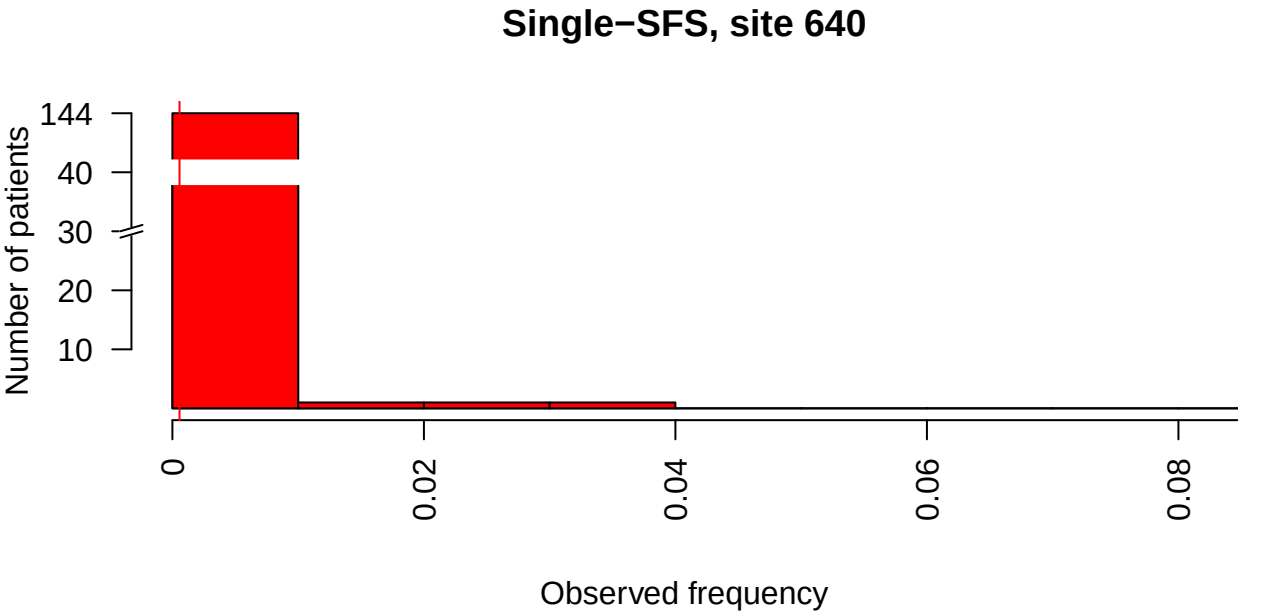

Simulated data, cost 0.0646
Number of patients
155
40
30
20
10
pvalue= 0.712
0
0.02
0.04
0.06
Observed frequency

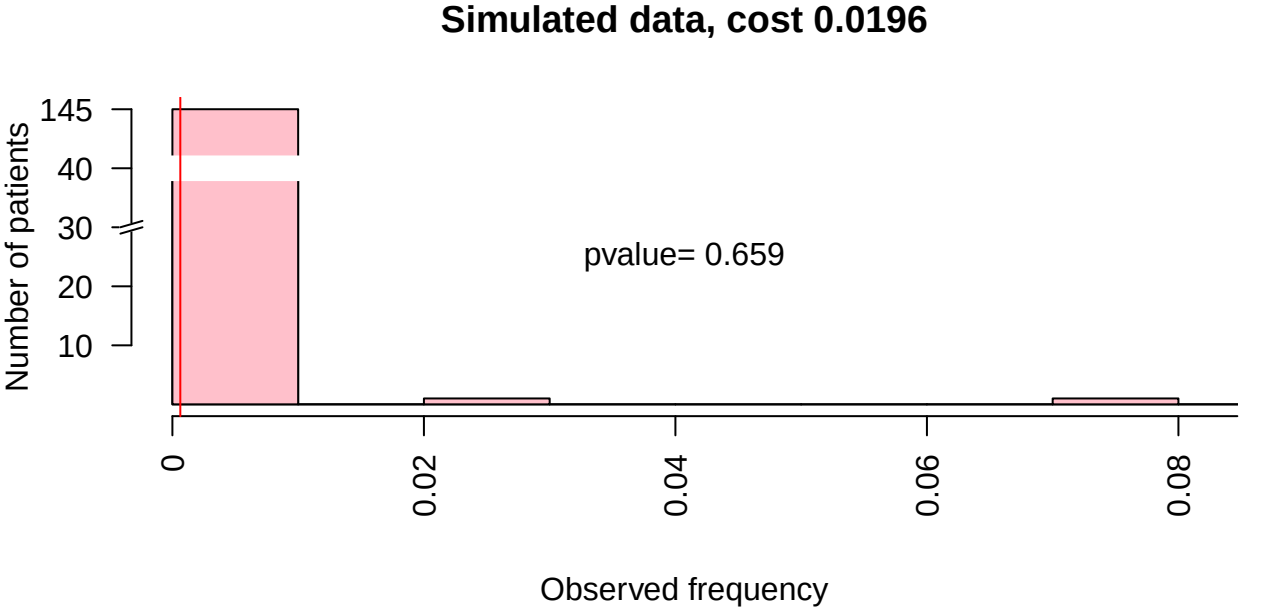

Single−SFS, site 638
Number of patients
156
40
30
20
10
0
0.02
Observed frequency

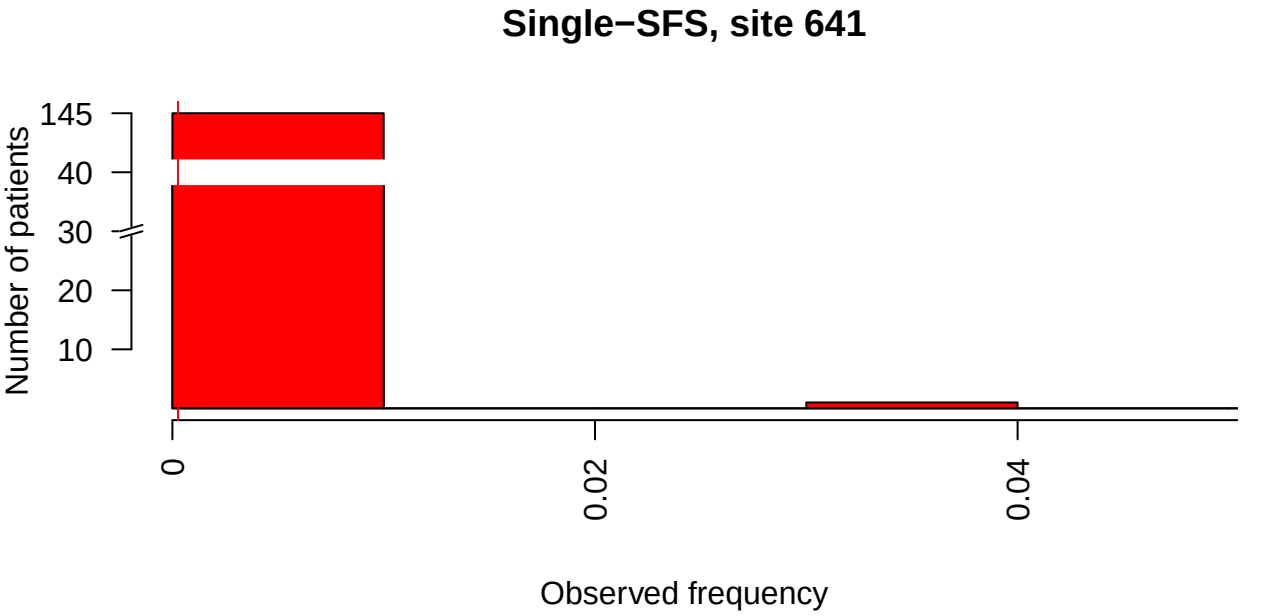

Simulated data, cost 0.2384
Number of patients
157
40
30
20
10
pvalue= 0.32
0
0.02
Observed frequency

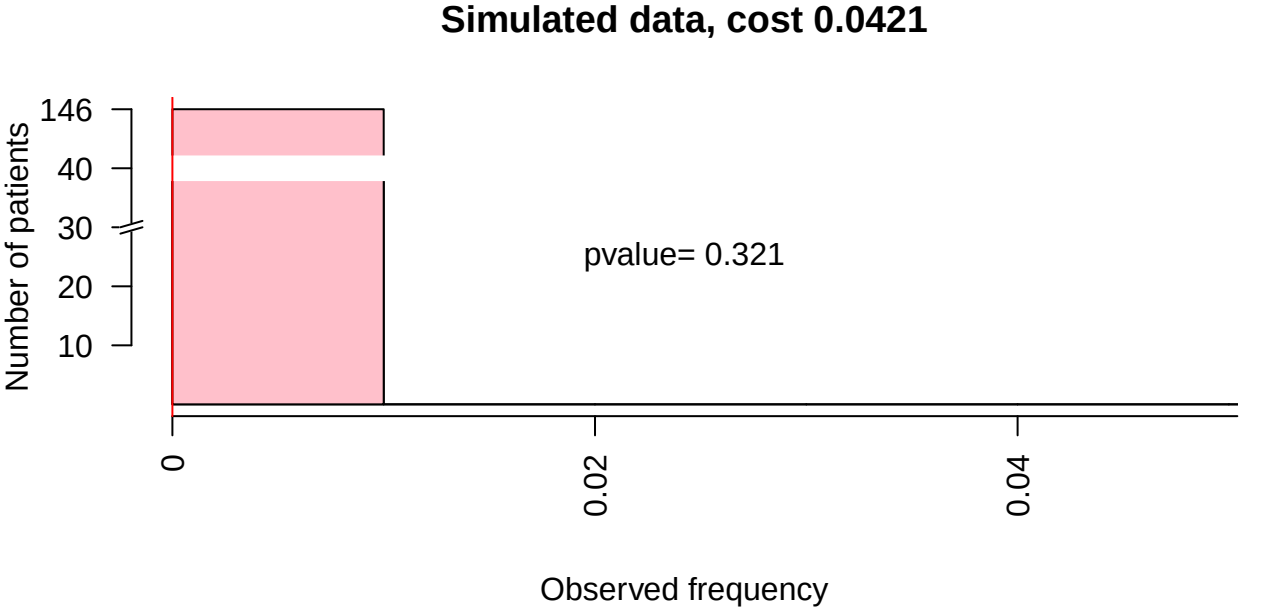

Single−SFS, site 639
Number of patients
148
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
Observed frequency

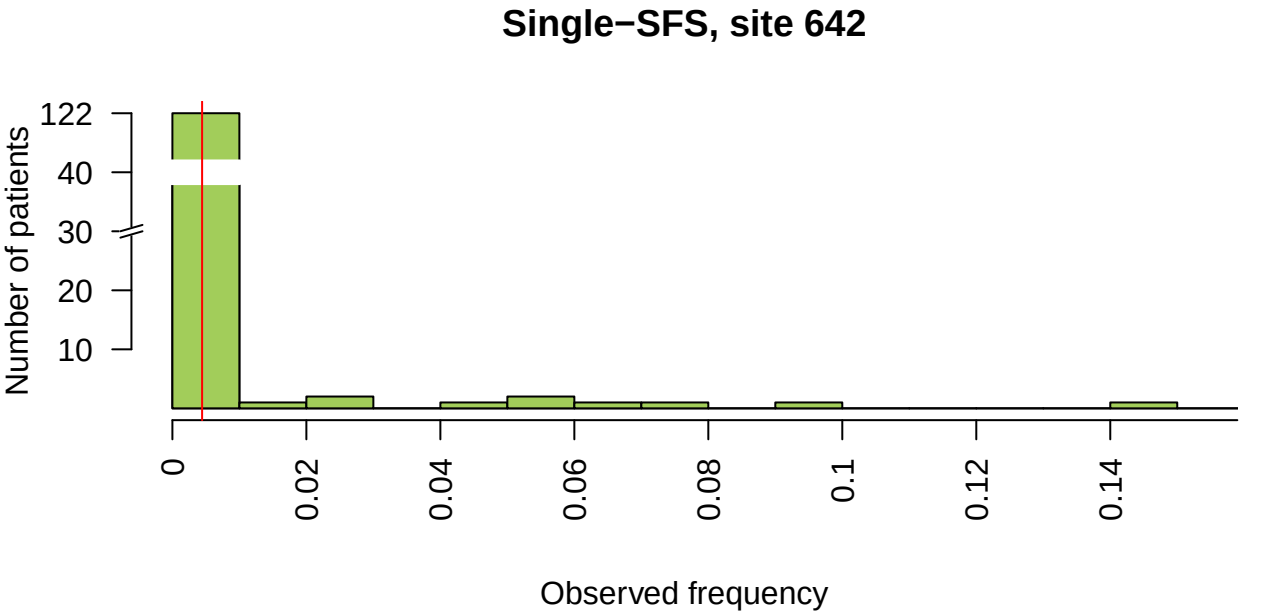

Simulated data, cost 0.0074
Number of patients
151
40
30
20
10
pvalue= 0.249
0
0.02
0.04
0.06
0.08
0.1
Observed frequency

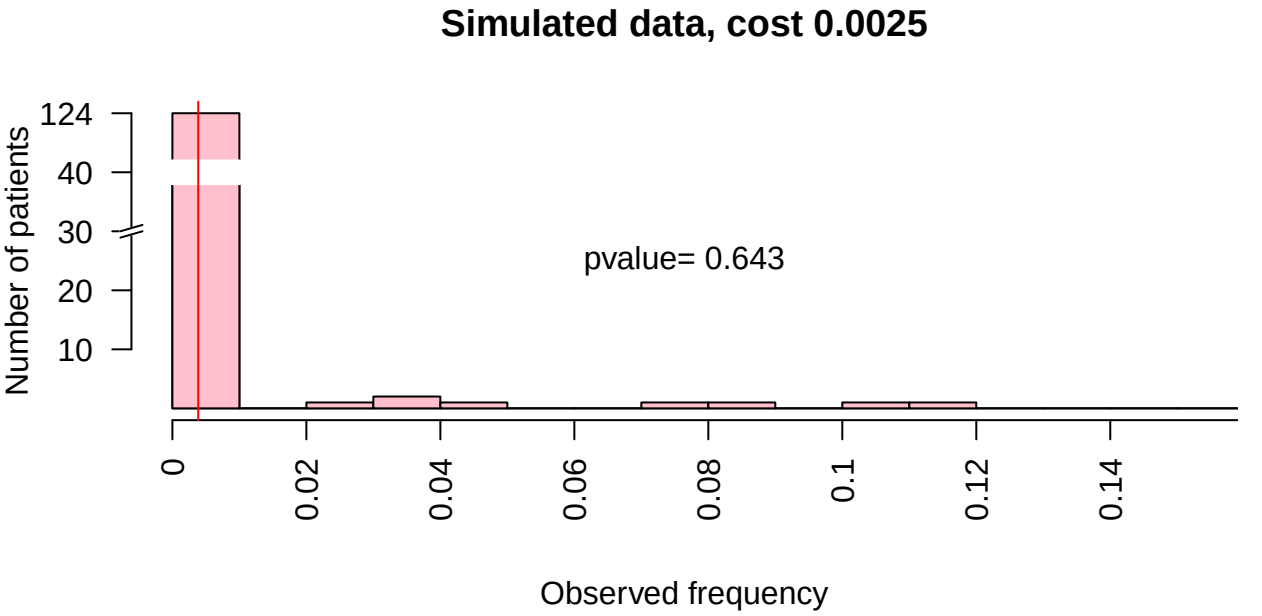

Single−SFS, site 640
Number of patients
144
40
30
20
10
0
0.02
0.04
0.06
0.08
Observed frequency

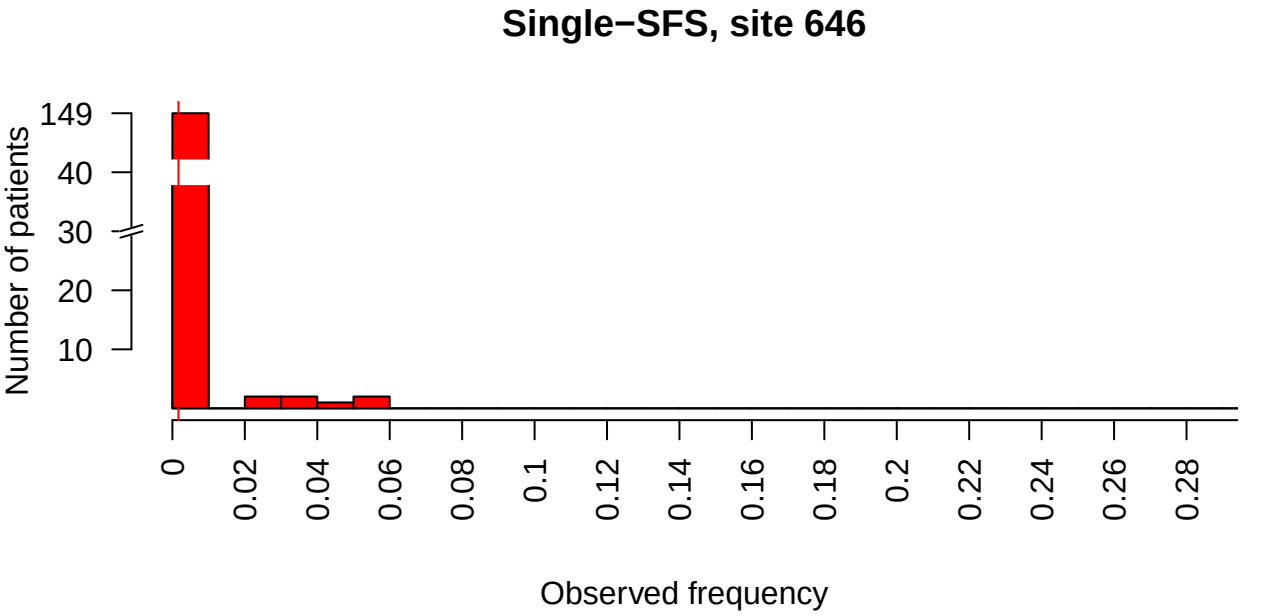

Simulated data, cost 0.0196
Number of patients
145
40
30
20
10
pvalue= 0.659
0
0.02
0.04
0.06
0.08
Observed frequency

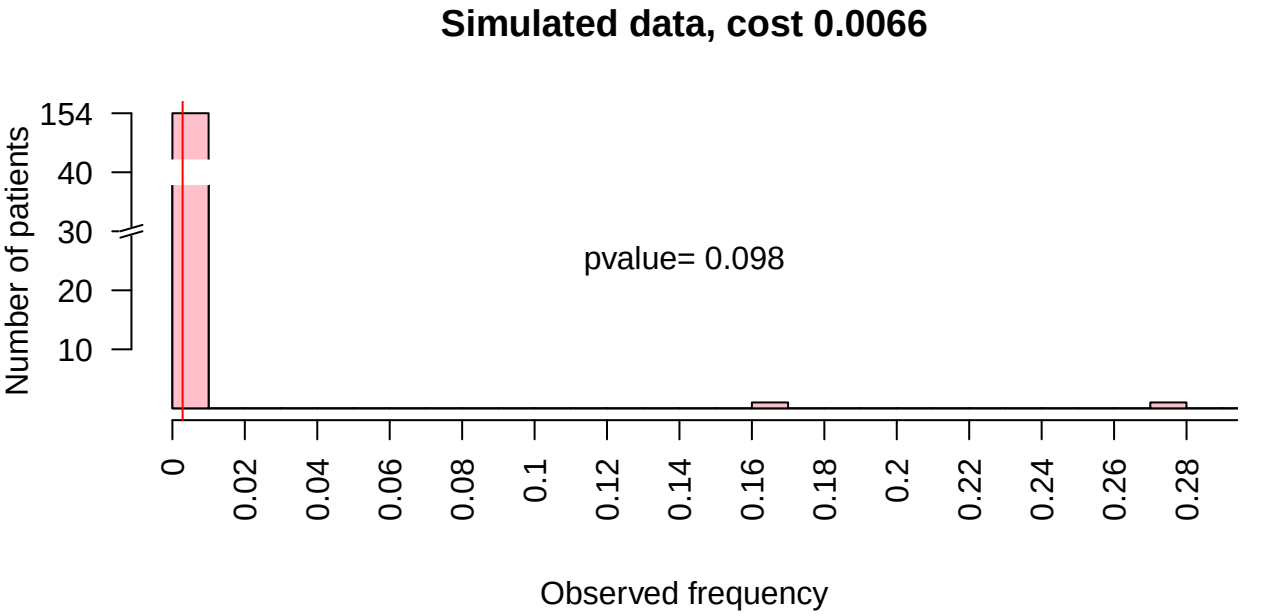

Single−SFS, site 641
Number of patients
145
40
30
20
10
0
0.02
0.04
Observed frequency

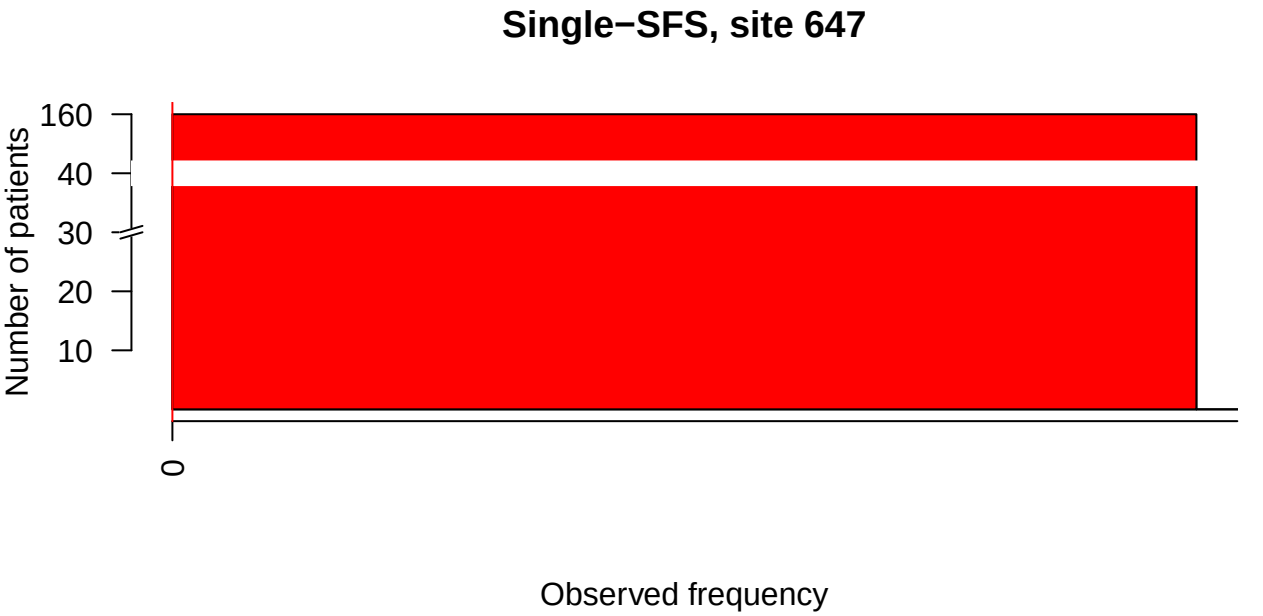

Simulated data, cost 0.0421
Number of patients
146
40
30
20
10
pvalue= 0.321
0
0.02
0.04
Observed frequency

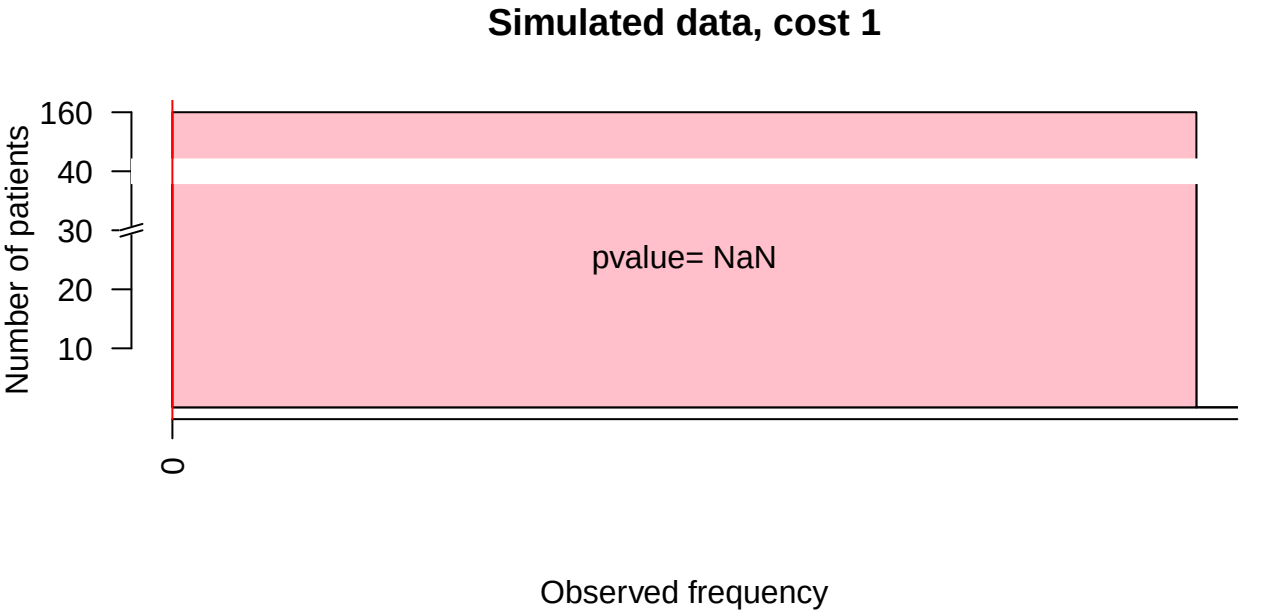

Single−SFS, site 642
Number of patients
122
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
Observed frequency

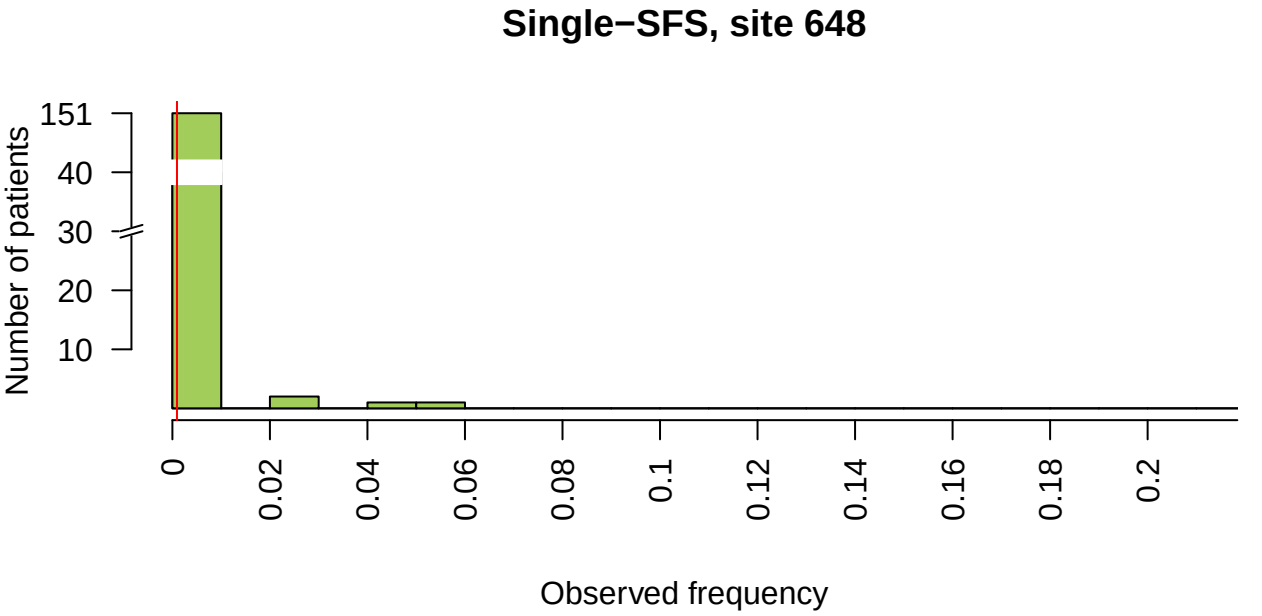

Simulated data, cost 0.0025
Number of patients
124
40
30
20
10
pvalue= 0.643
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
Observed frequency

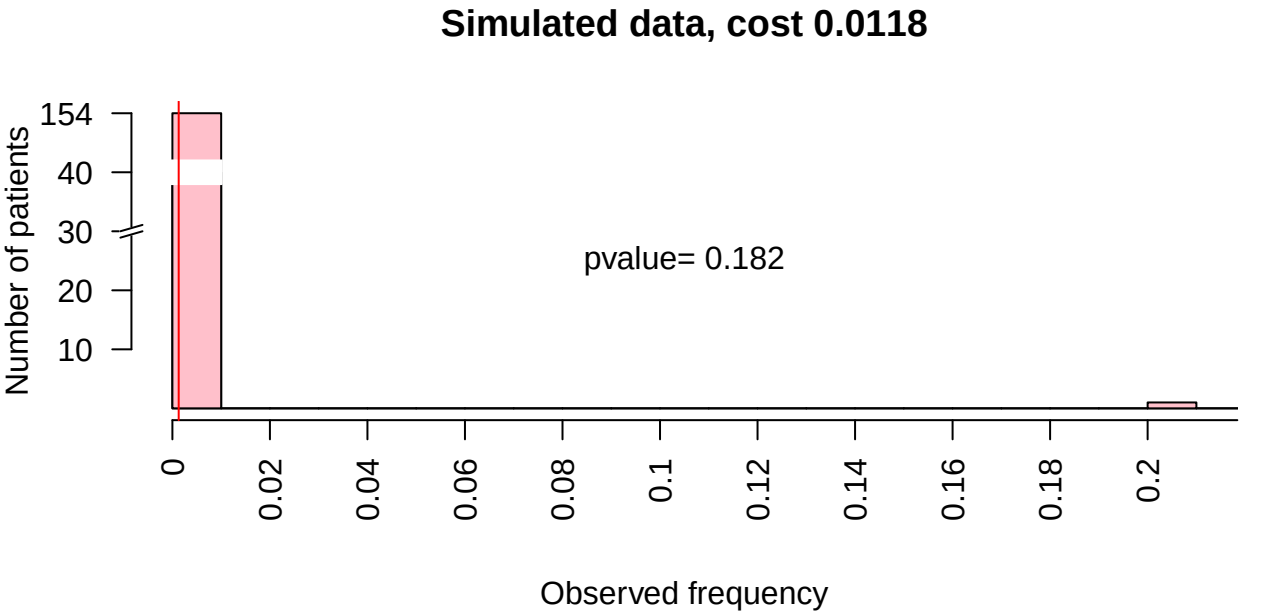

Single−SFS, site 646
Number of patients
149
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
0.24
0.26
0.28
Observed frequency

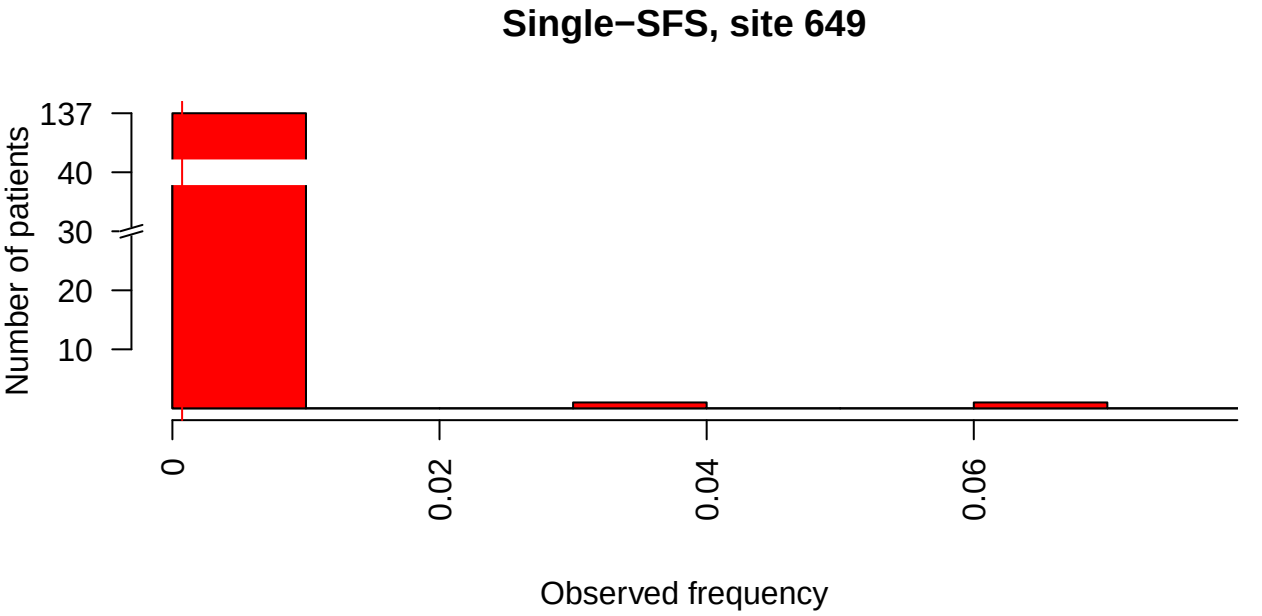

Simulated data, cost 0.0066
Number of patients
154
40
30
20
10
pvalue= 0.098
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
0.24
0.26
0.28
Observed frequency

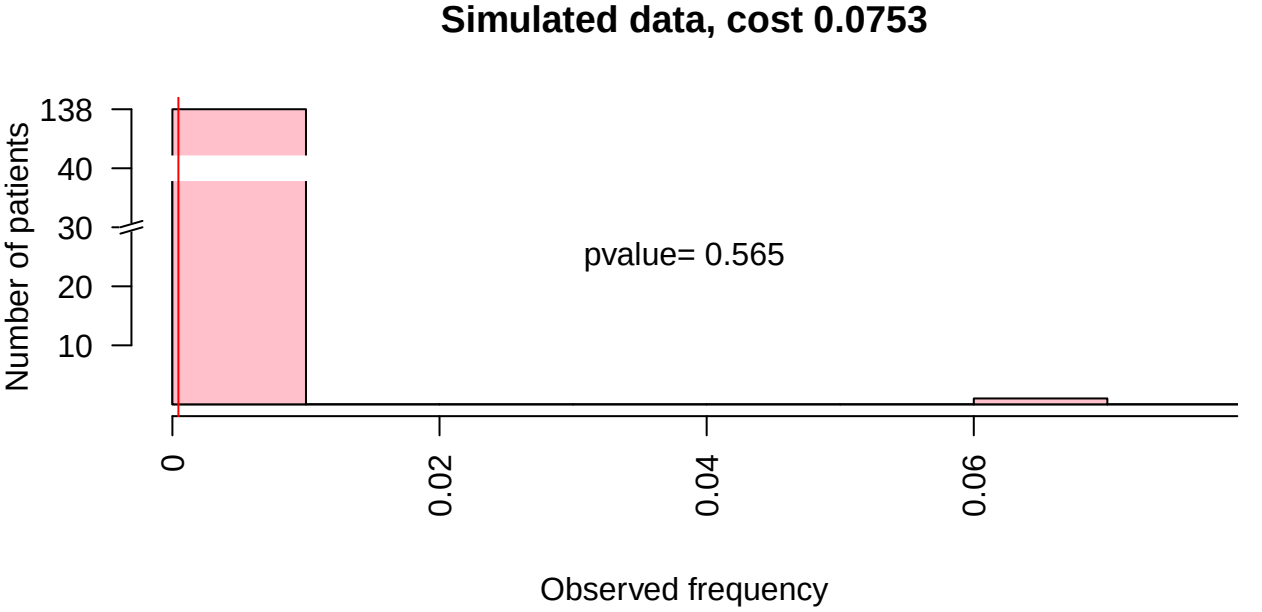

Single−SFS, site 647
Number of patients
160
40
30
20
10
0
Observed frequency

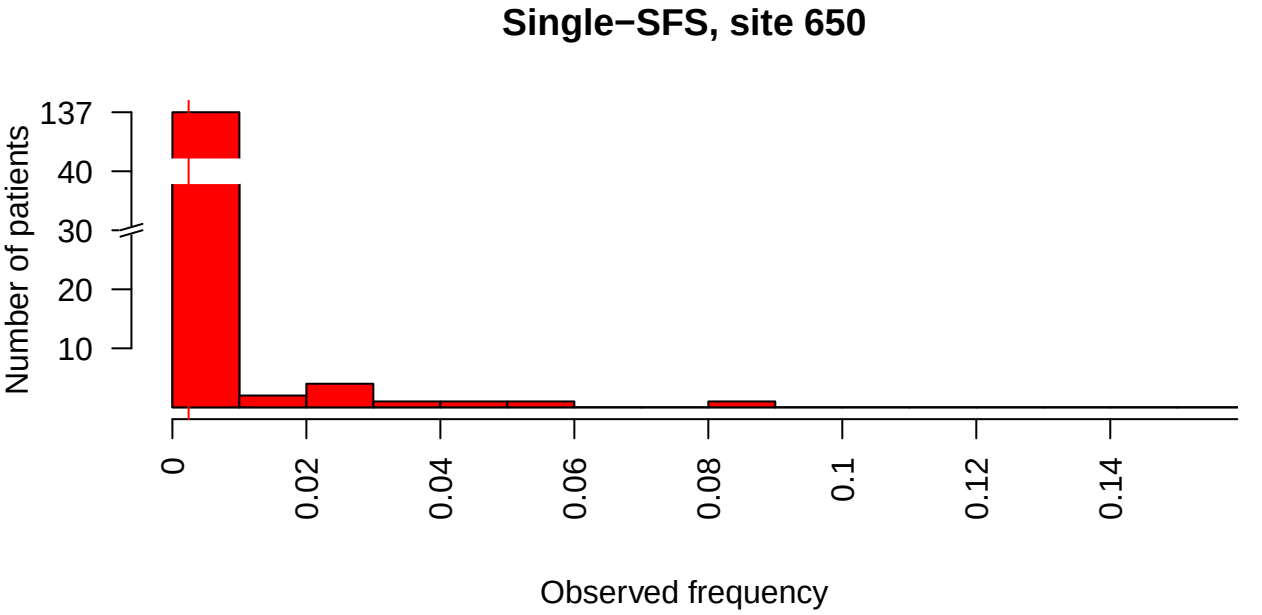

Simulated data, cost 1
Number of patients
160
40
30
20
10
0
pvalue= NaN
Observed frequency

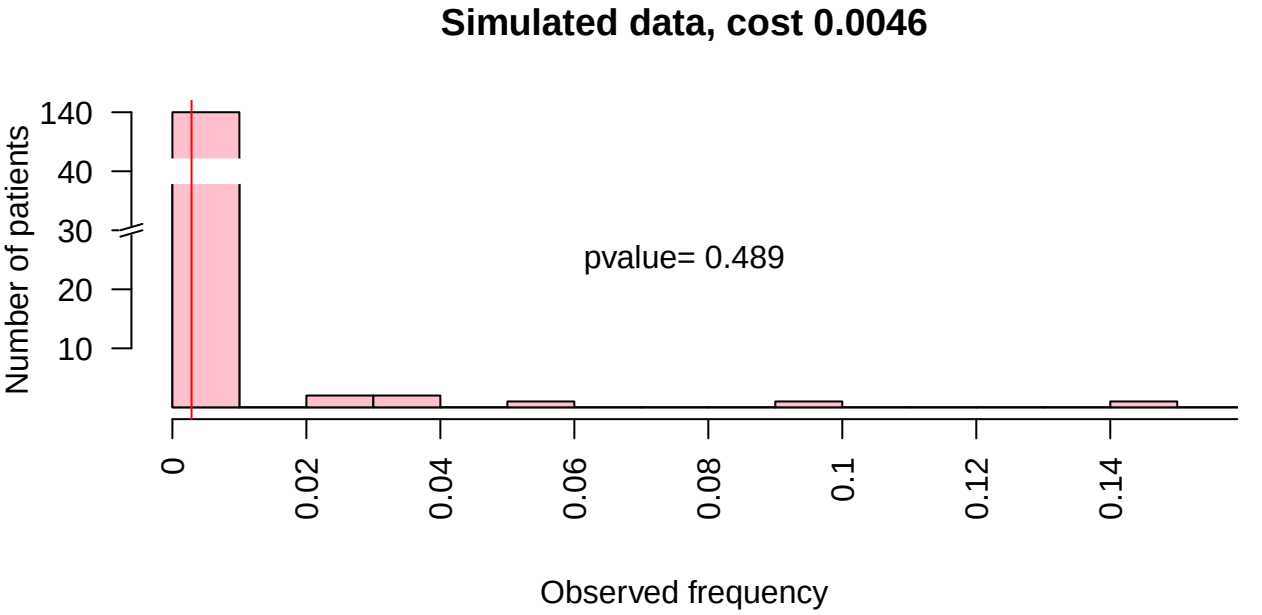

Single−SFS, site 648
Number of patients
151
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
Observed frequency

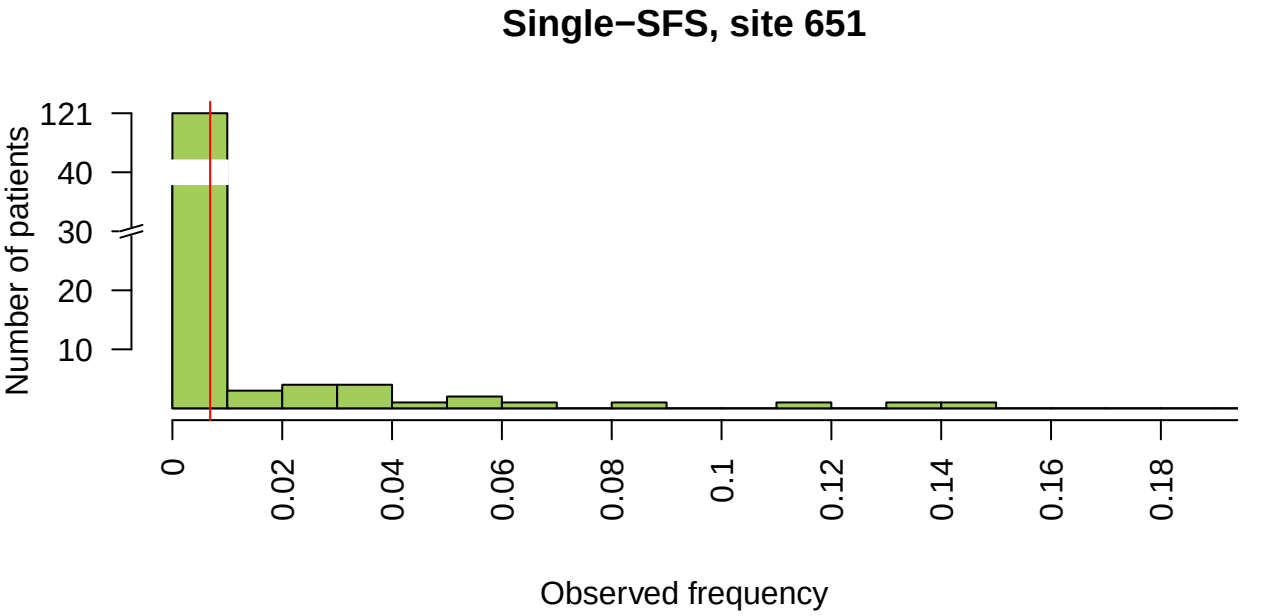

Simulated data, cost 0.0118
Number of patients
154
40
30
20
10
pvalue= 0.182
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
Observed frequency

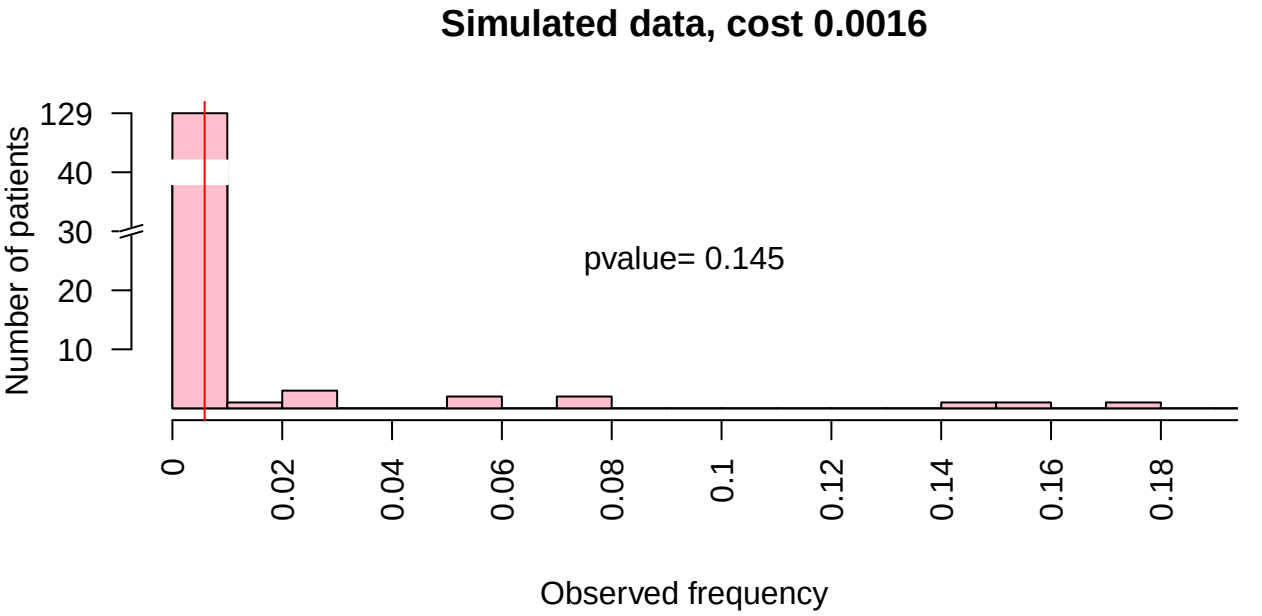

Single−SFS, site 649
Number of patients
137
40
30
20
10
0
0.02
0.04
0.06
Observed frequency

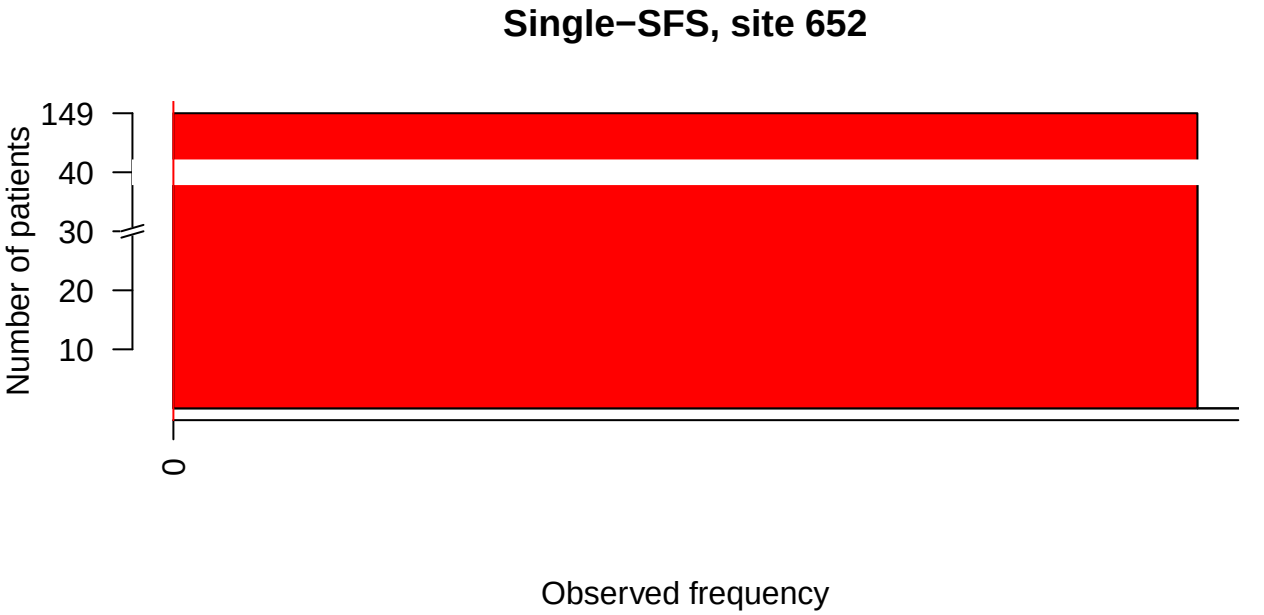

Simulated data, cost 0.0753
Number of patients
138
40
30
20
10
pvalue= 0.565
0
0.02
0.04
0.06
Observed frequency

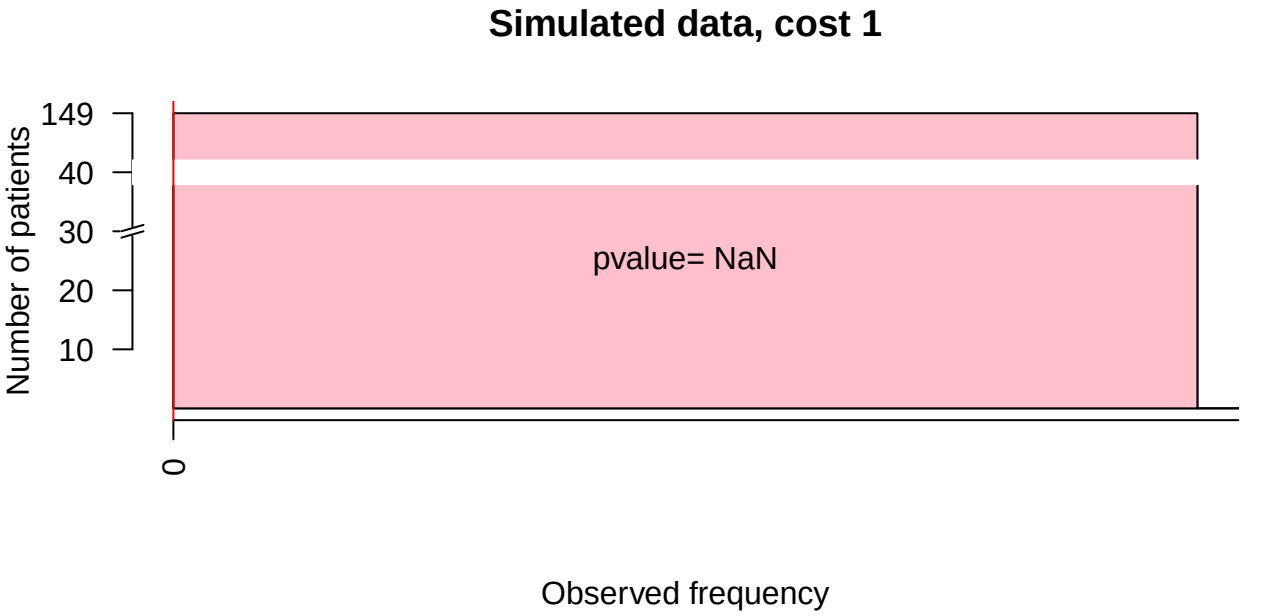

Single−SFS, site 650
Number of patients
137
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
Observed frequency

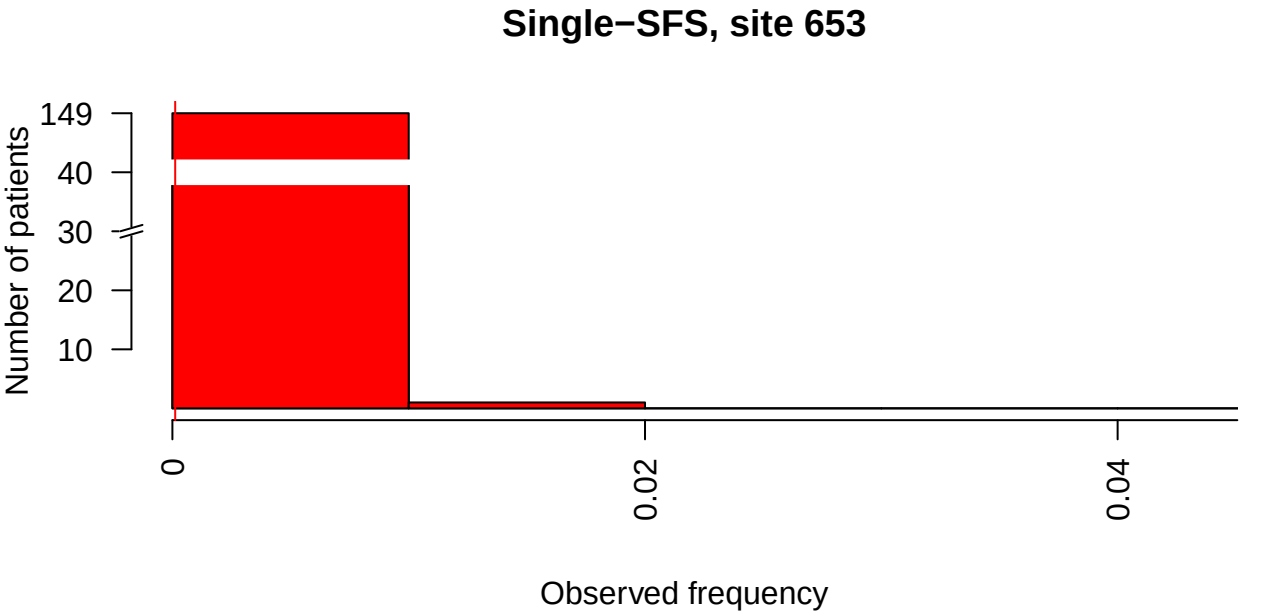

Simulated data, cost 0.0046
Number of patients
140
40
30
20
10
pvalue= 0.489
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
Observed frequency

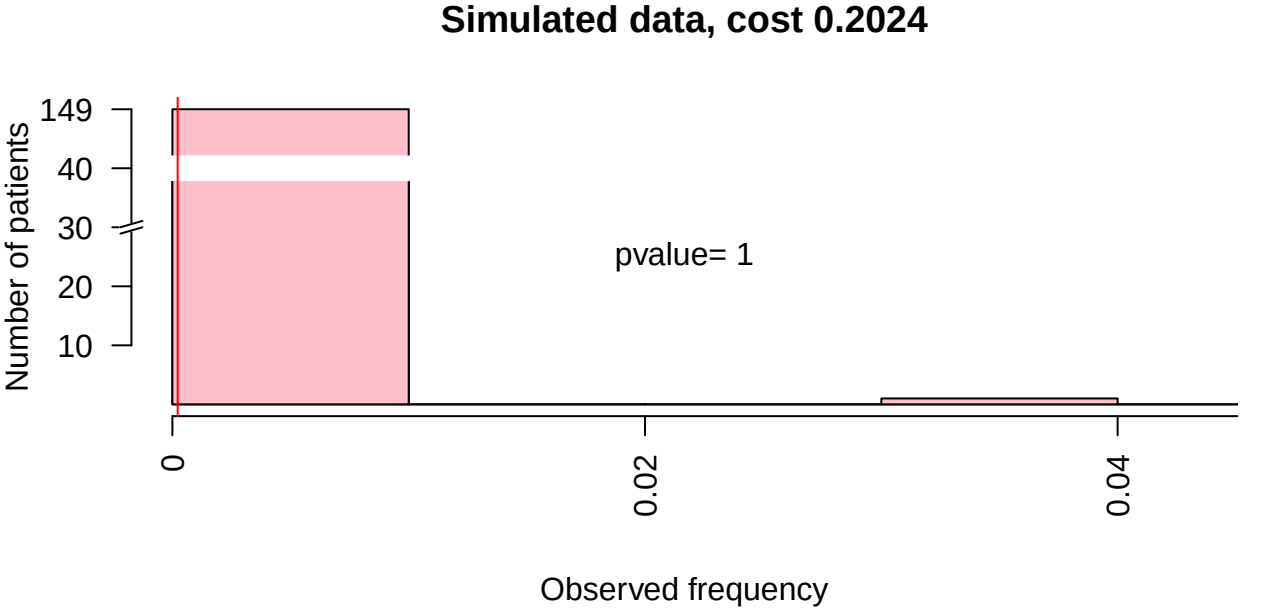

Single−SFS, site 651
Number of patients
121
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
Observed frequency

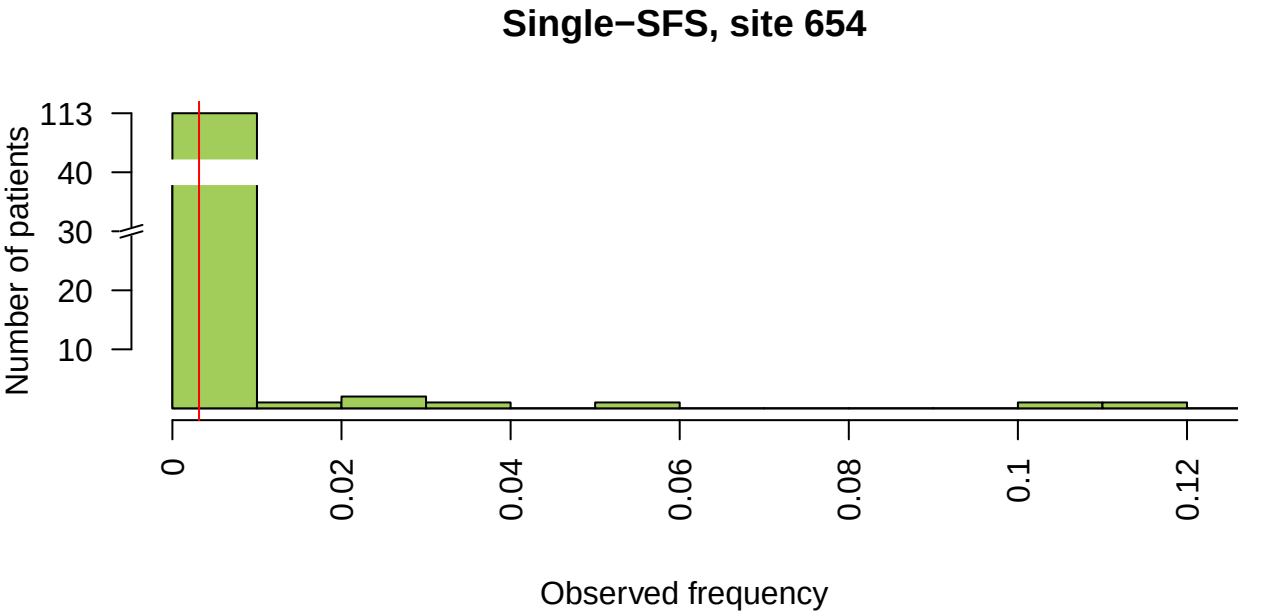

Simulated data, cost 0.0016
Number of patients
129
40
30
20
10
pvalue= 0.145
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
Observed frequency

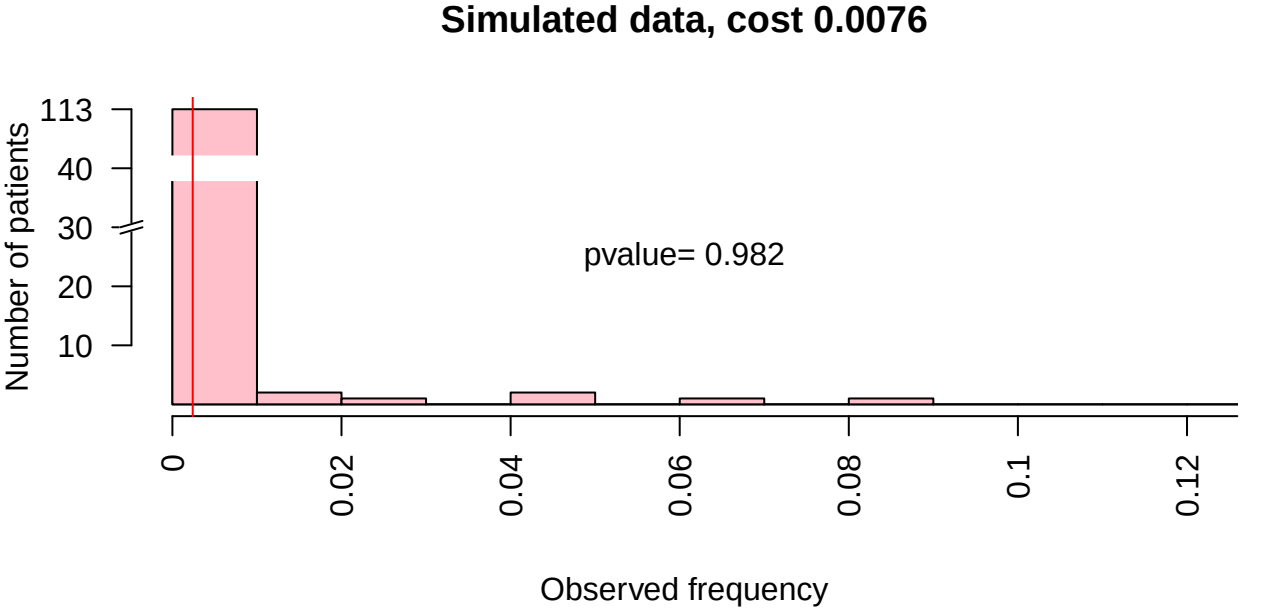

Single−SFS, site 652
Number of patients
149
40
30
20
10
0
Observed frequency

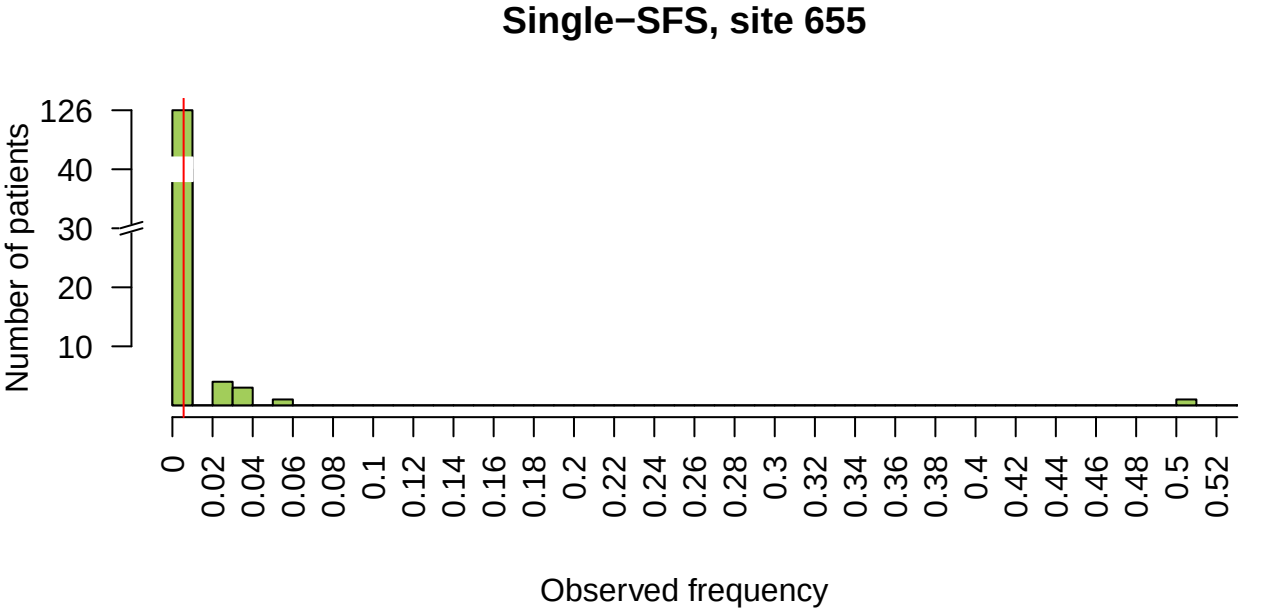

Simulated data, cost 1
Number of patients
149
40
30
20
10
0
pvalue= NaN
Observed frequency

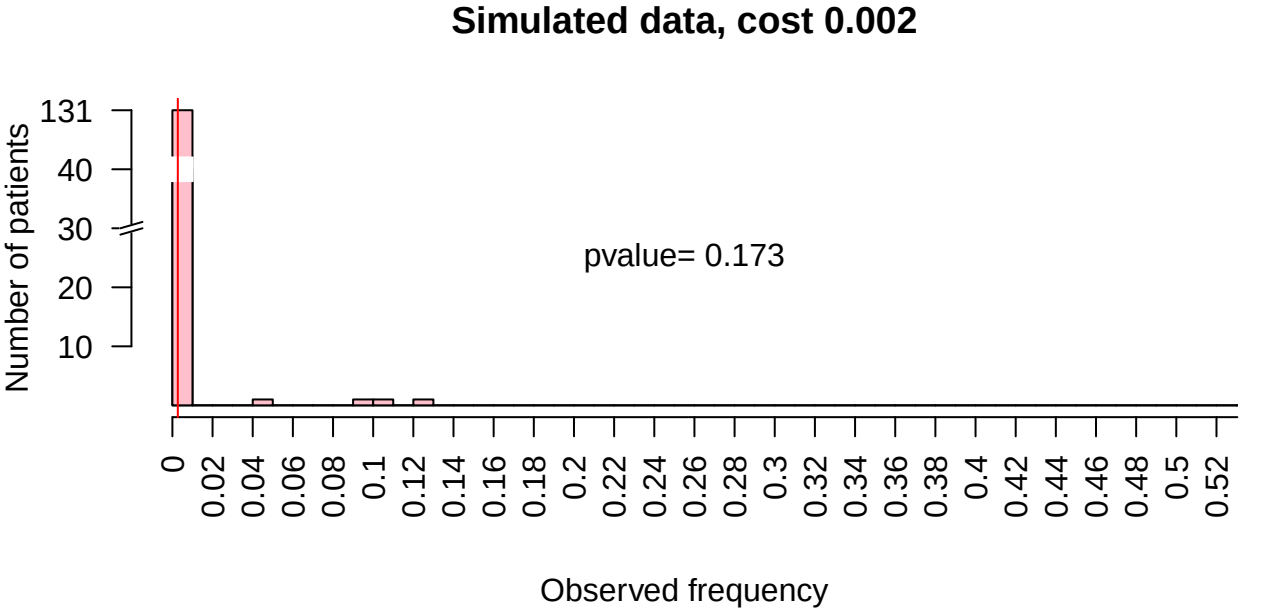

Single−SFS, site 653
Number of patients
149
40
30
20
10
0
0.02
0.04
Observed frequency

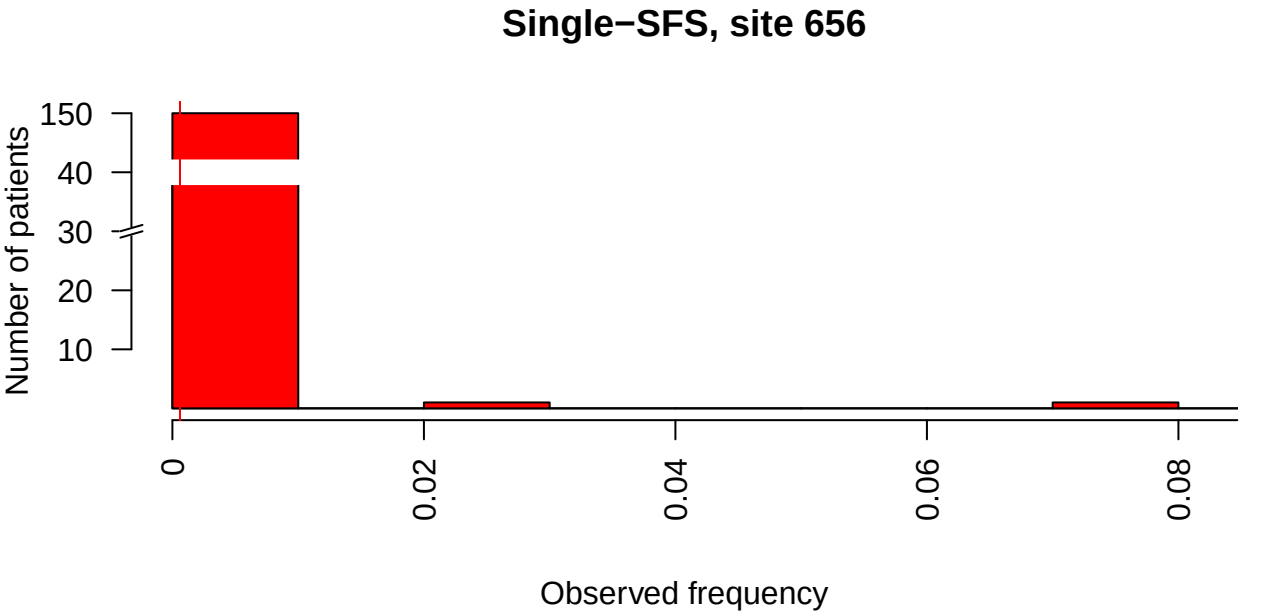

Simulated data, cost 0.2024
Number of patients
149
40
30
20
10
pvalue= 1
0
0.02
0.04
Observed frequency

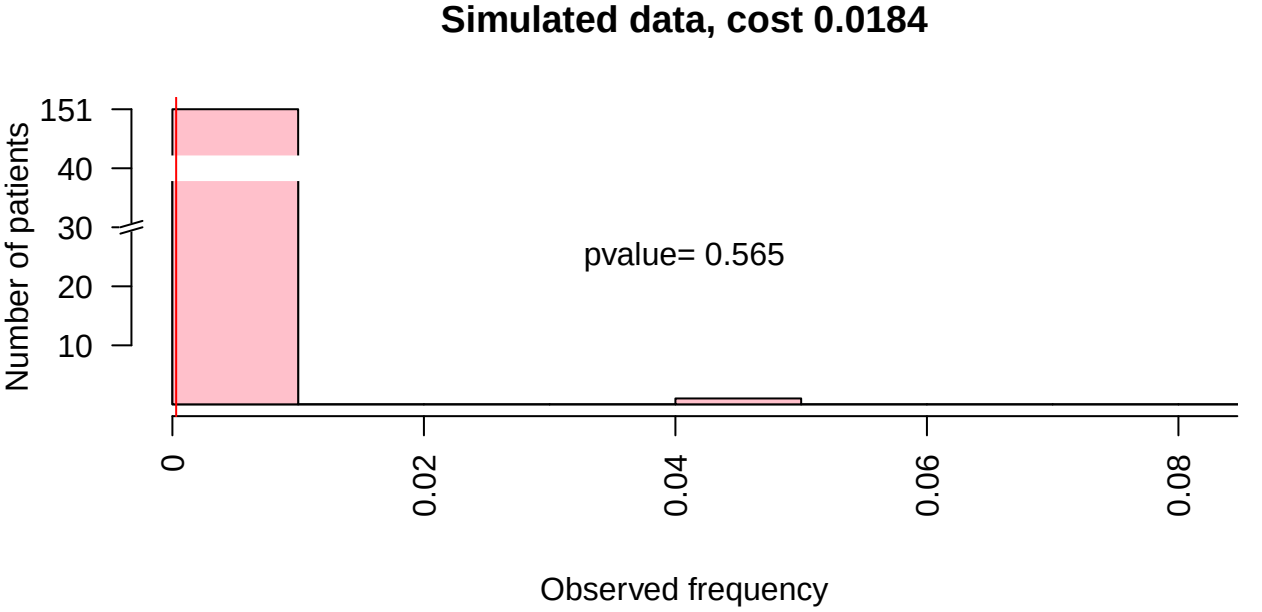

Single−SFS, site 654
Number of patients
113
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
Observed frequency

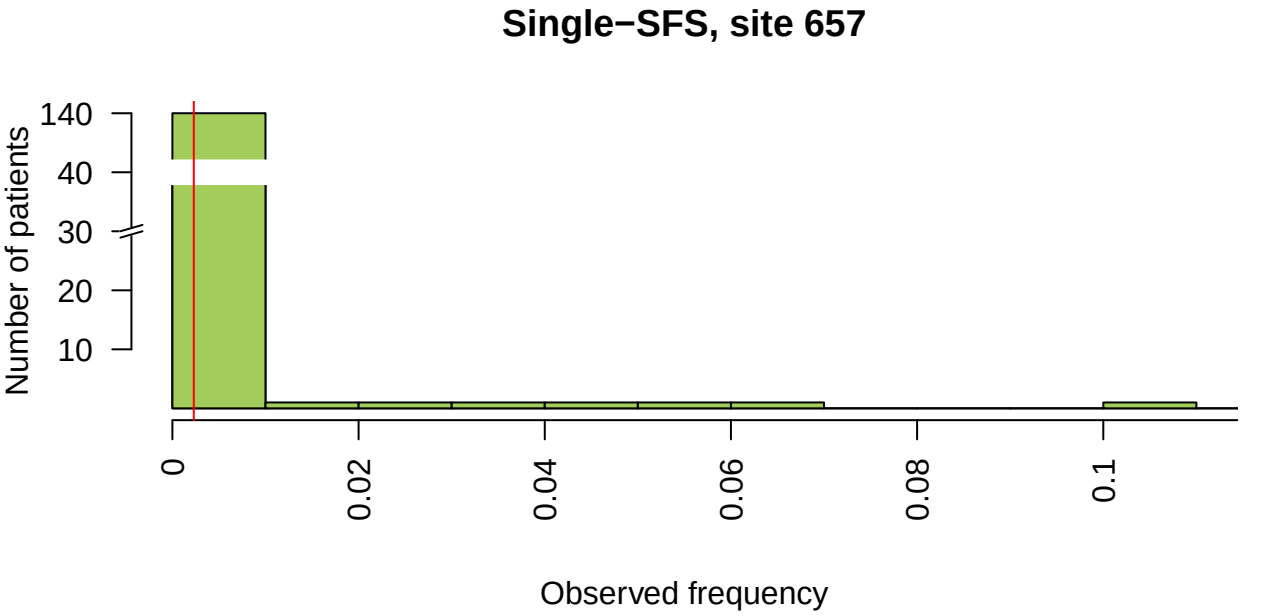

Simulated data, cost 0.0076
Number of patients
113
40
30
20
10
pvalue= 0.982
0
0.02
0.04
0.06
0.08
0.1
0.12
Observed frequency

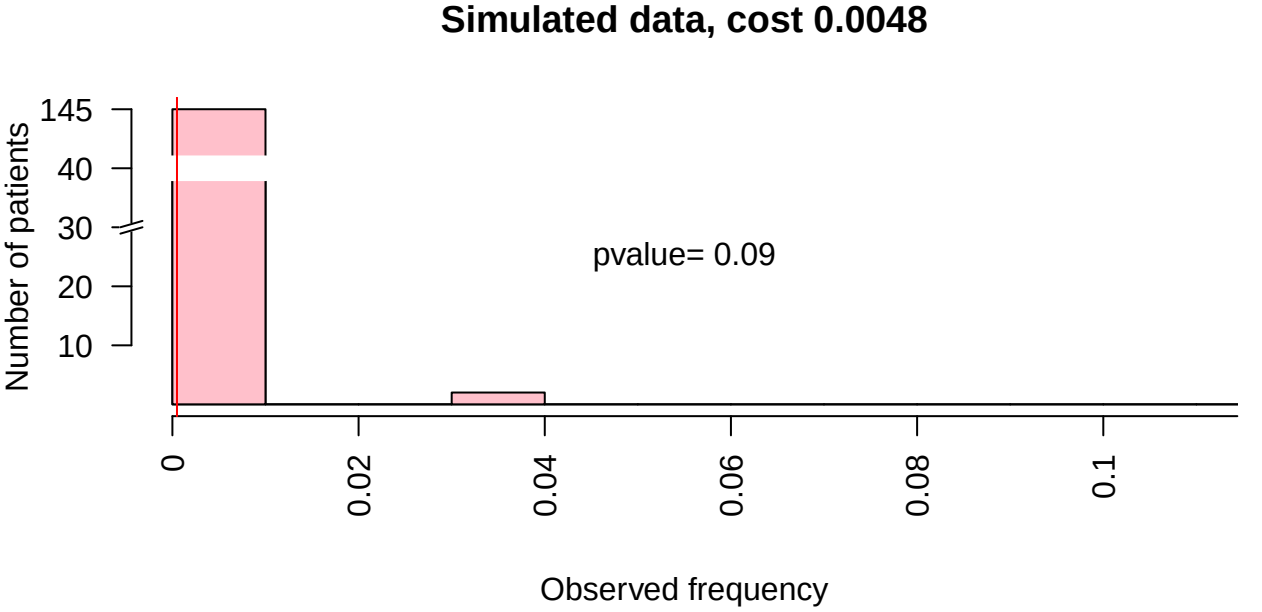

Single−SFS, site 655
Number of patients
126
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
0.24
0.26
0.28
0.3
0.32
0.34
0.36
0.38
0.4
0.42
0.44
0.46
0.48
0.5
0.52
Observed frequency

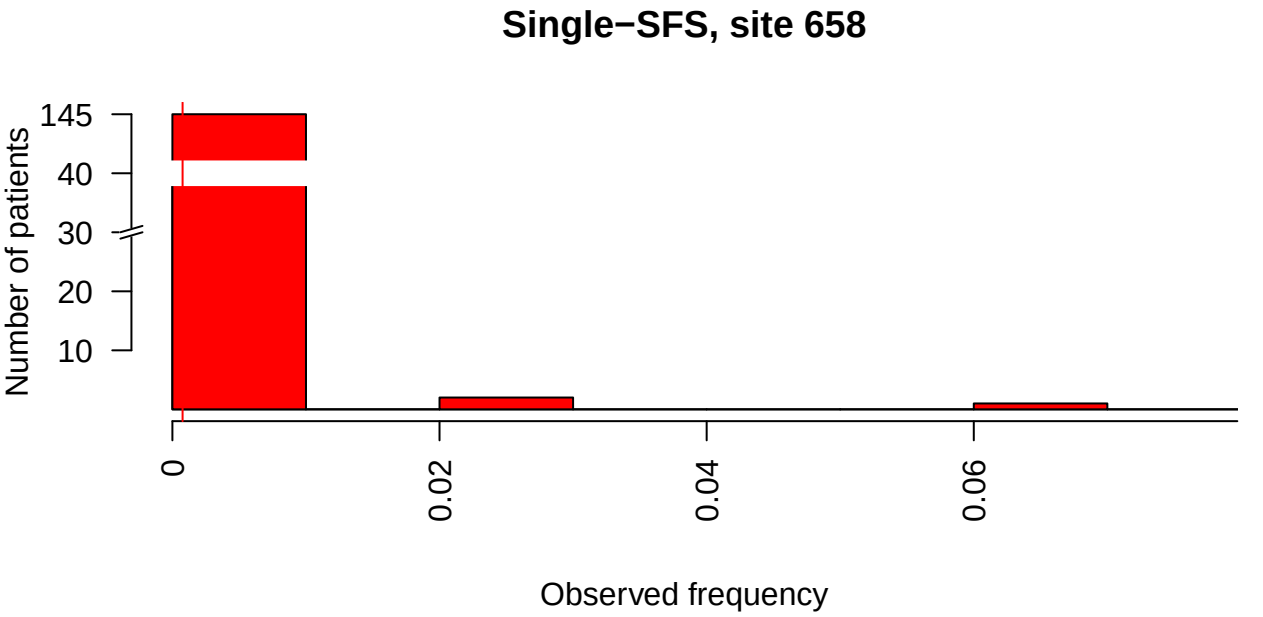

Simulated data, cost 0.002
Number of patients
131
40
30
20
10
pvalue= 0.173
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
0.24
0.26
0.28
0.3
0.32
0.34
0.36
0.38
0.4
0.42
0.44
0.46
0.48
0.5
0.52
Observed frequency

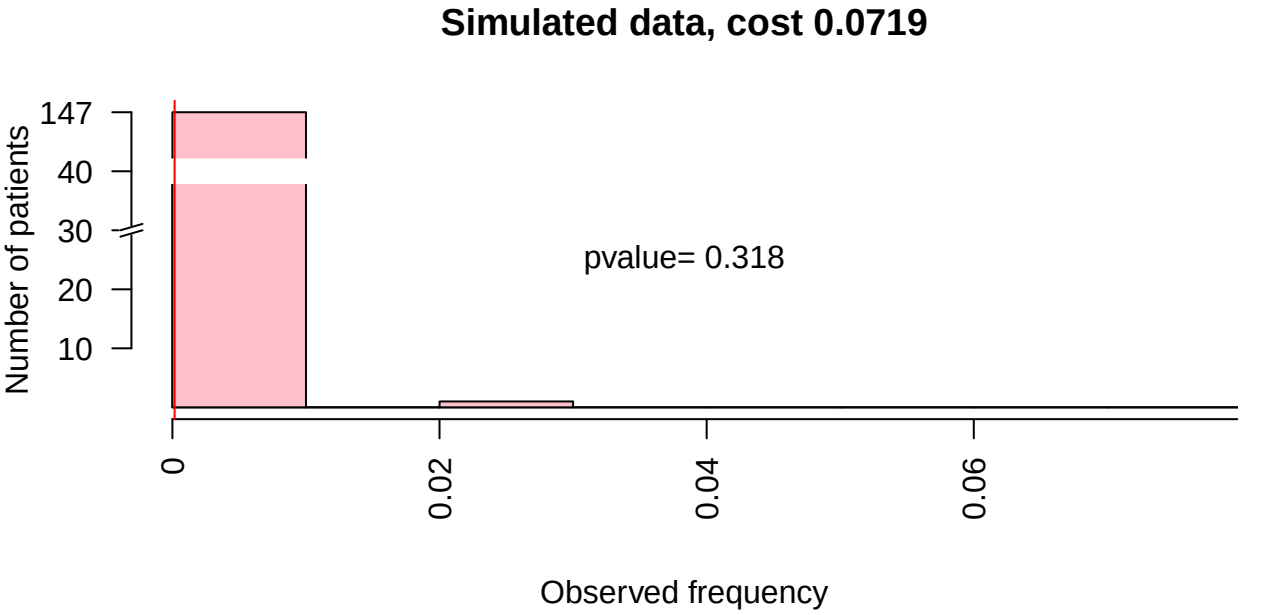

Single−SFS, site 656
Number of patients
150
40
30
20
10
0
0.02
0.04
0.06
0.08
Observed frequency

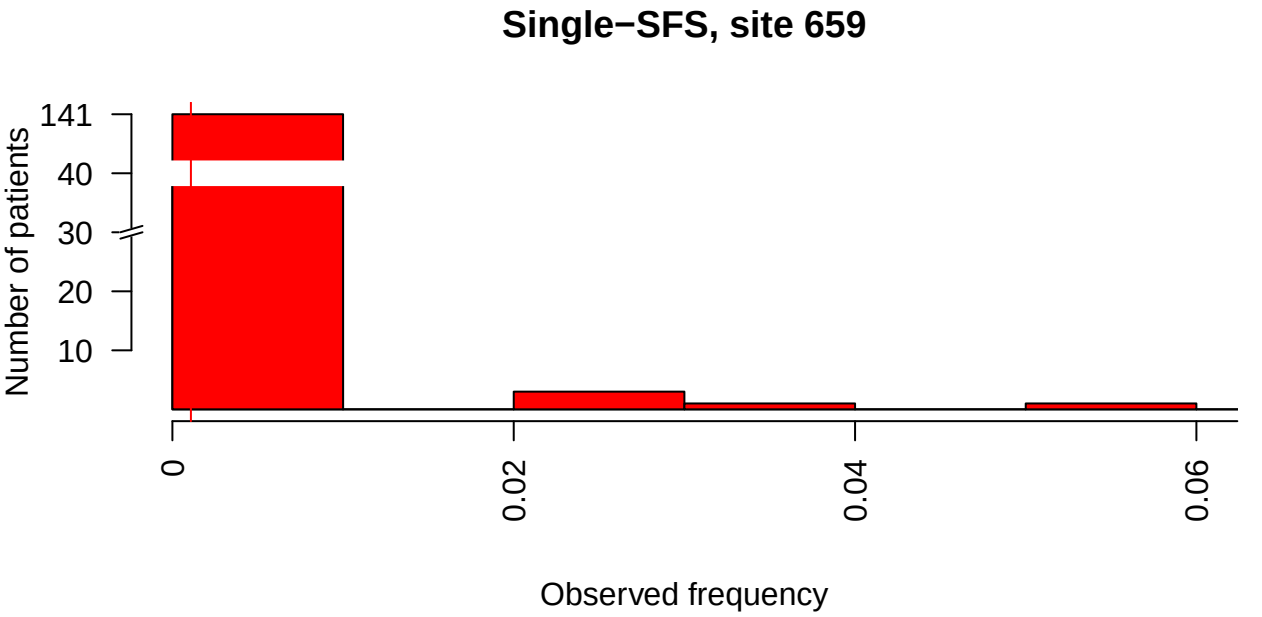

Simulated data, cost 0.0184
Number of patients
151
40
30
20
10
pvalue= 0.565
0
0.02
0.04
0.06
0.08
Observed frequency

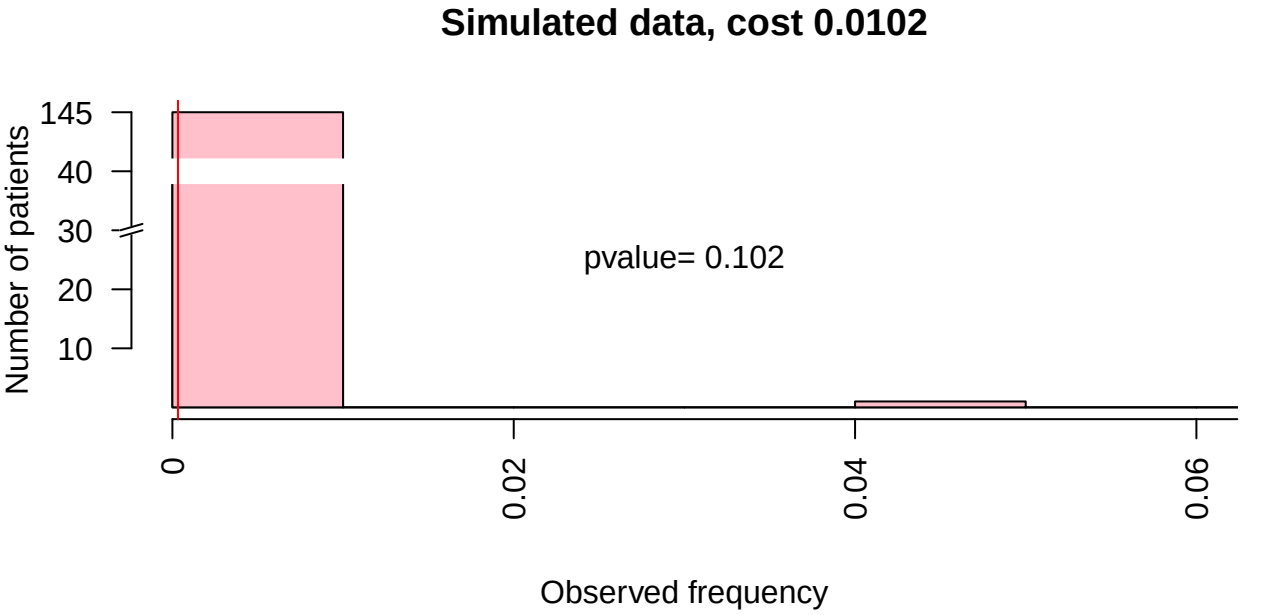

Single−SFS, site 657
Number of patients
140
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
Observed frequency

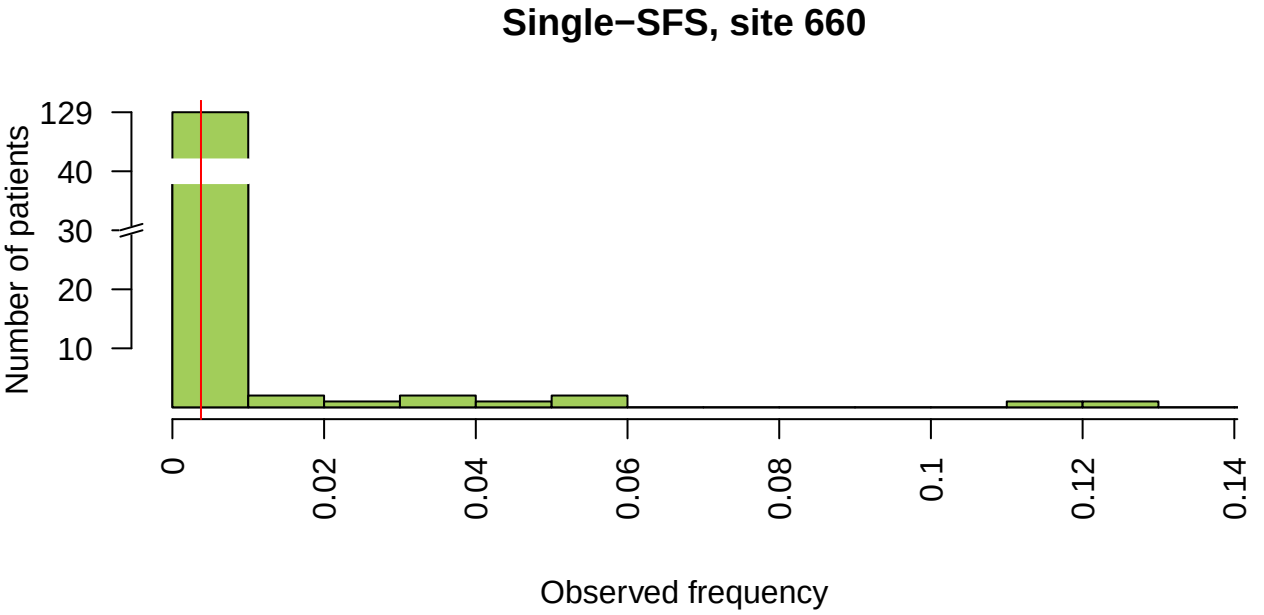

Simulated data, cost 0.0048
Number of patients
145
40
30
20
10
pvalue= 0.09
0
0.02
0.04
0.06
0.08
0.1
Observed frequency

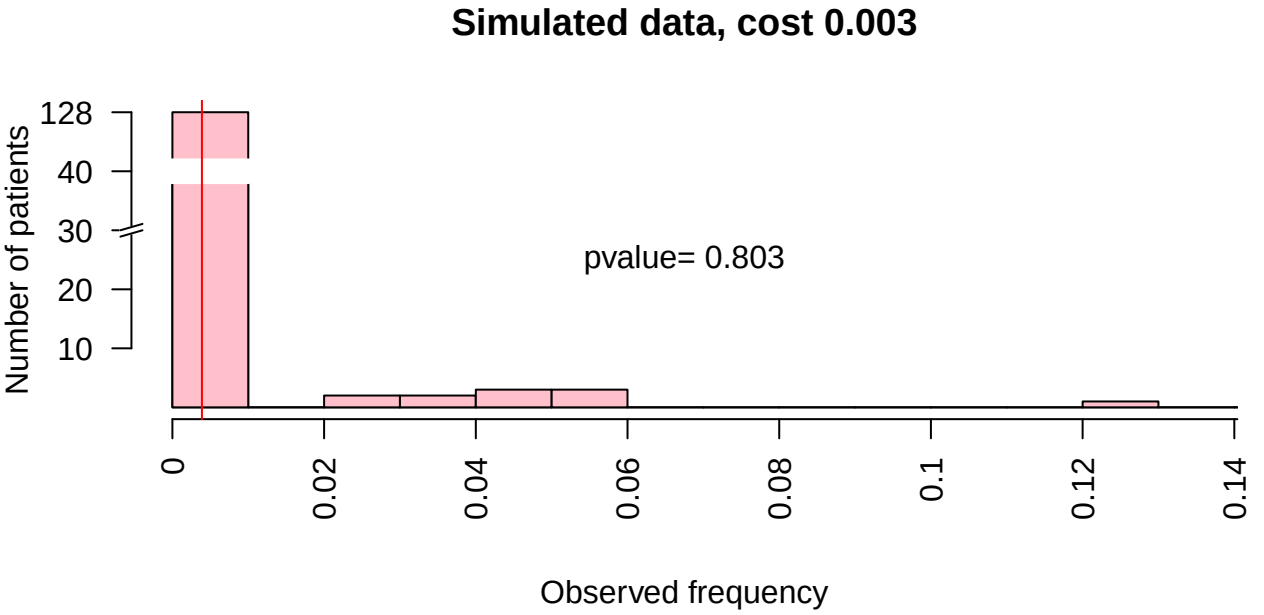

Single−SFS, site 658
Number of patients
145
40
30
20
10
0
0.02
0.04
0.06
Observed frequency

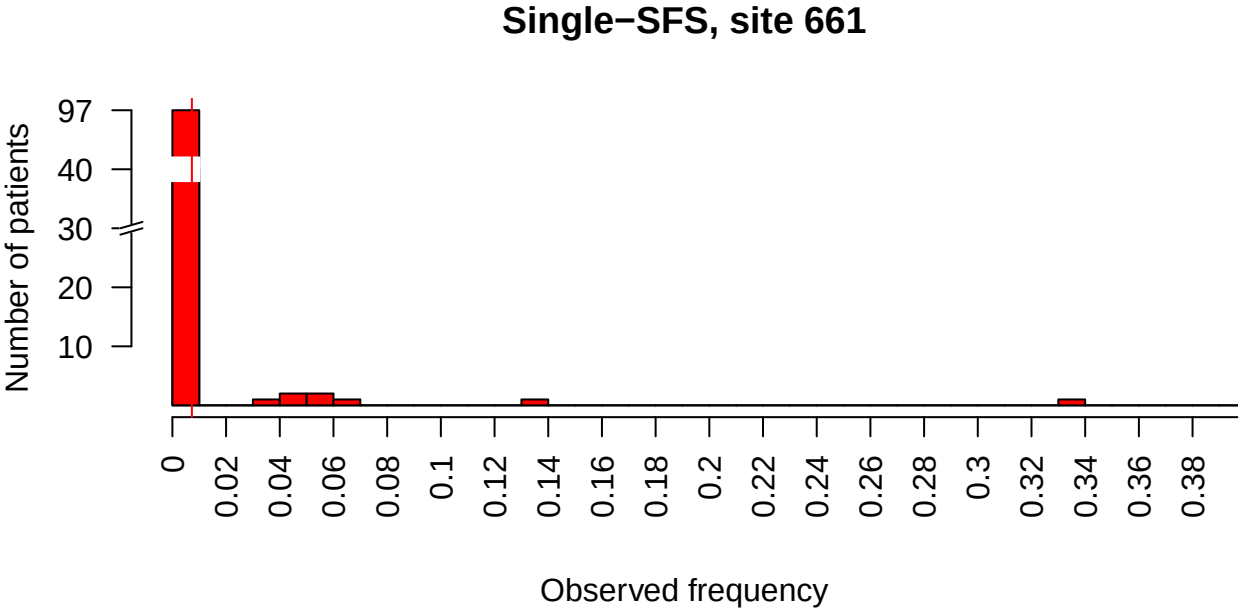

Simulated data, cost 0.0719
Number of patients
147
40
30
20
10
pvalue= 0.318
0
0.02
0.04
0.06
Observed frequency

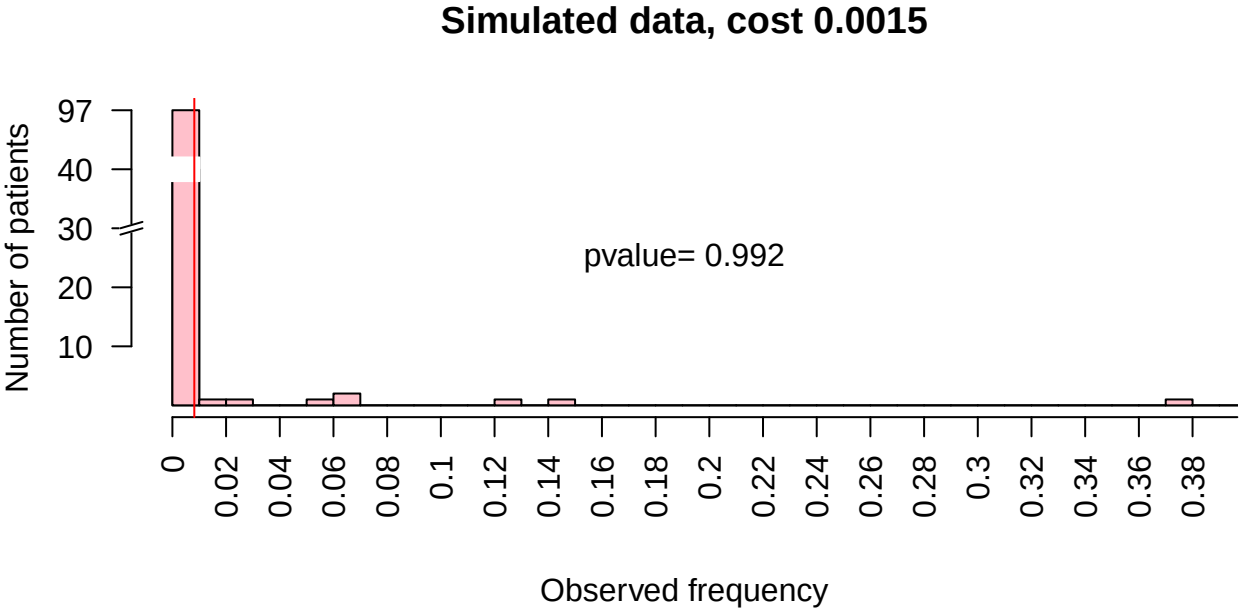

Single−SFS, site 659
Number of patients
141
40
30
20
10
0
0.02
0.04
0.06
Observed frequency

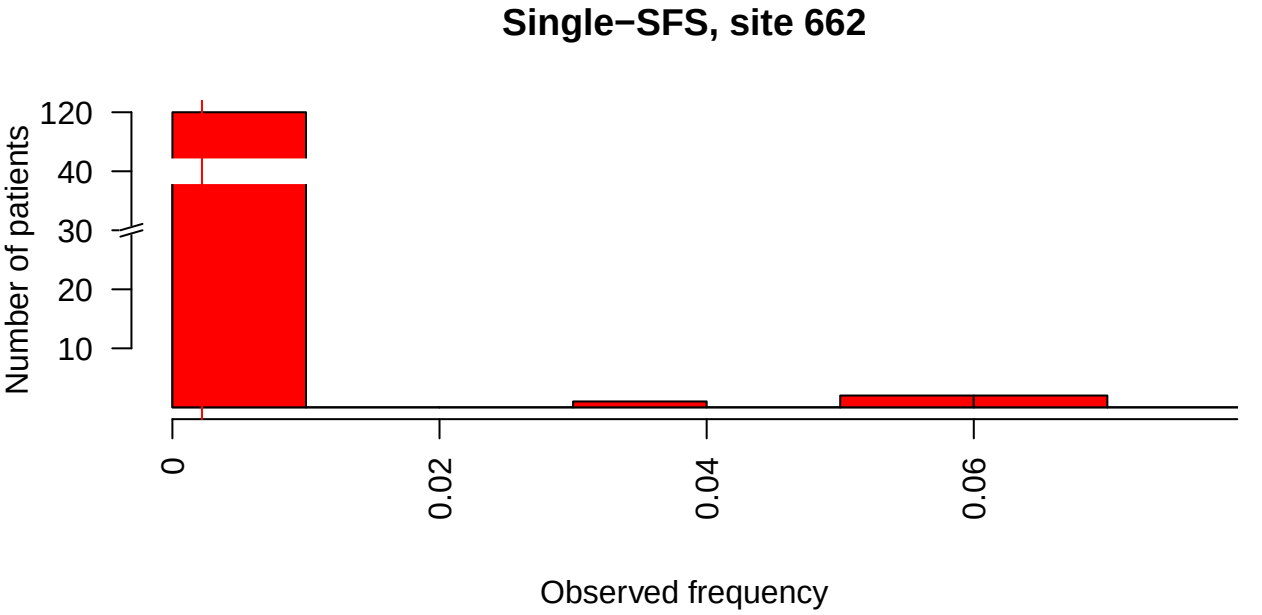

Simulated data, cost 0.0102
Number of patients
145
40
30
20
10
pvalue= 0.102
0
0.02
0.04
0.06
Observed frequency

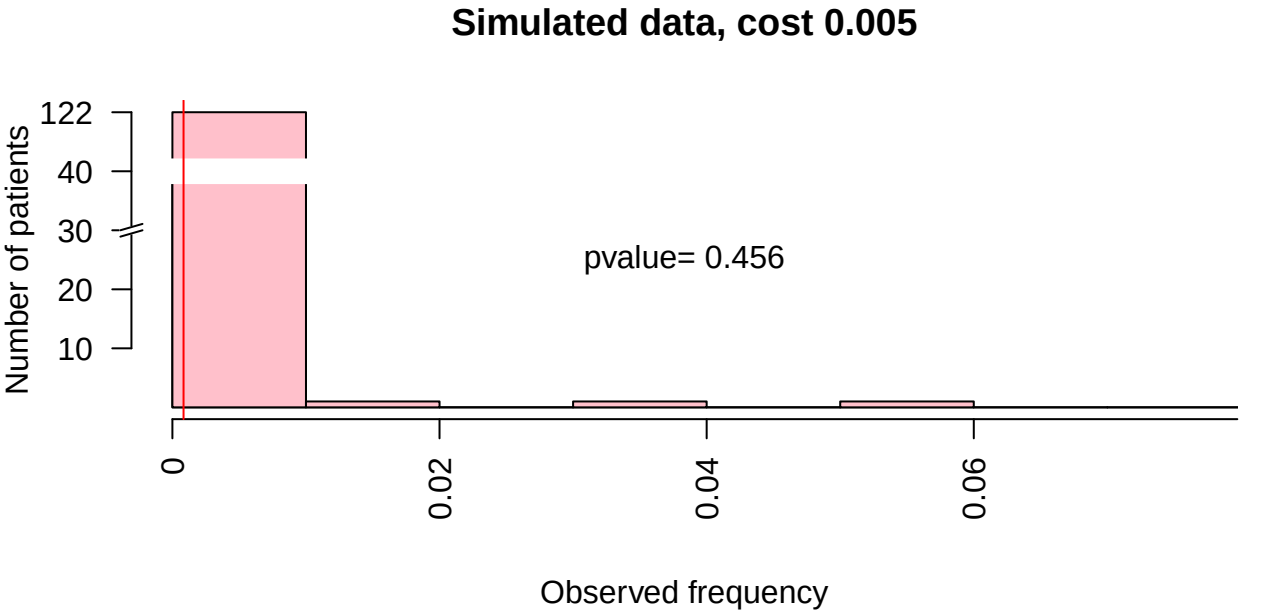

Single−SFS, site 660
Number of patients
129
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
Observed frequency

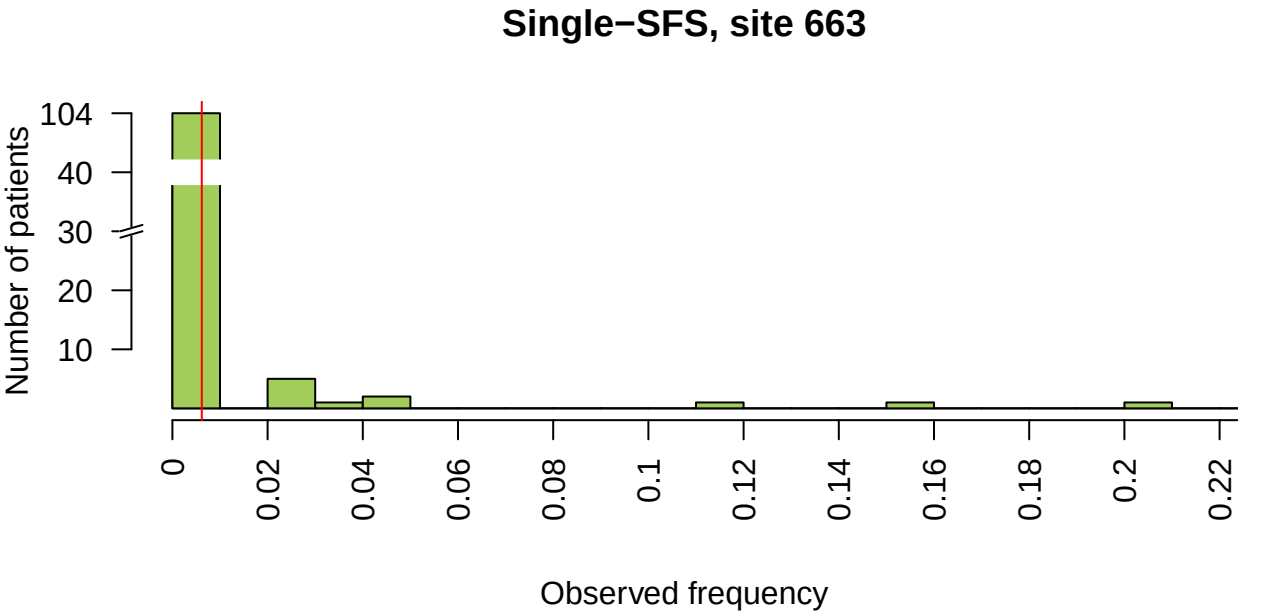

Simulated data, cost 0.003
Number of patients
128
40
30
20
10
pvalue= 0.803
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
Observed frequency

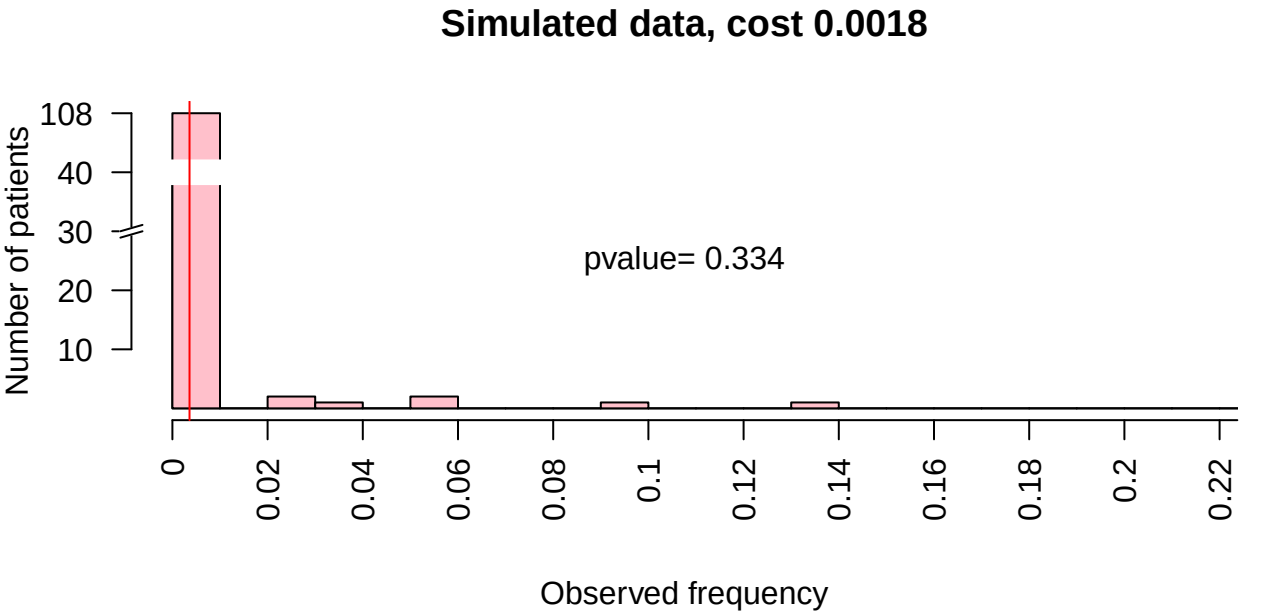

Single−SFS, site 661
Number of patients
97
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
0.24
0.26
0.28
0.3
0.32
0.34
0.36
0.38
Observed frequency

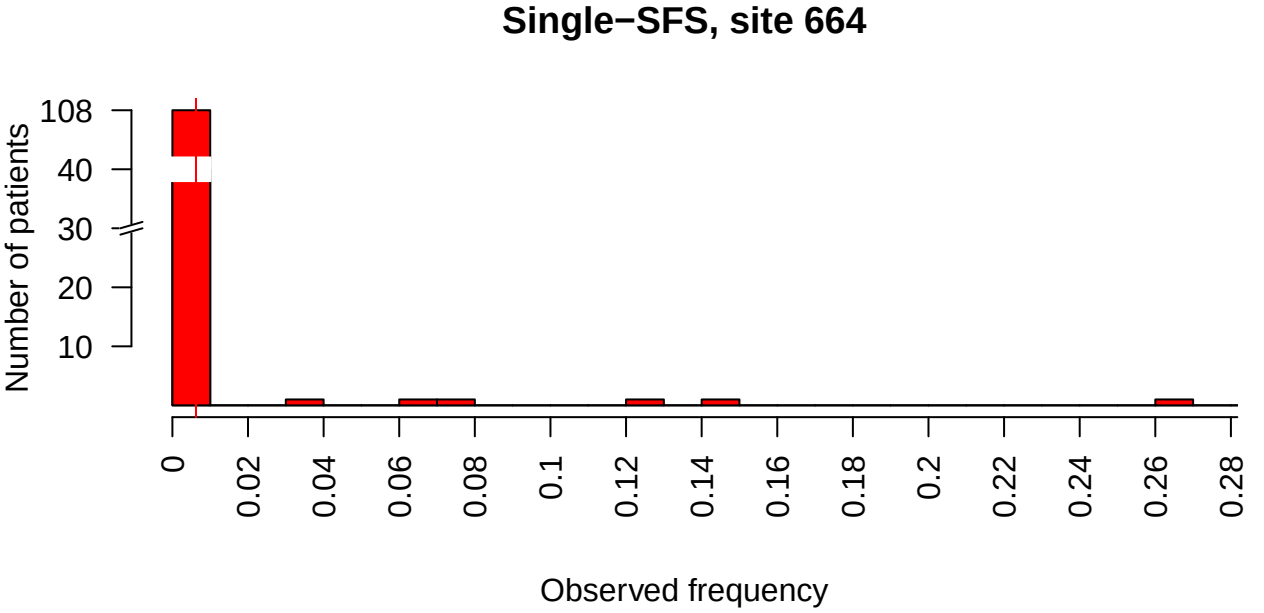

Simulated data, cost 0.0015
Number of patients
97
40
30
20
10
pvalue= 0.992
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
0.24
0.26
0.28
0.3
0.32
0.34
0.36
0.38
Observed frequency

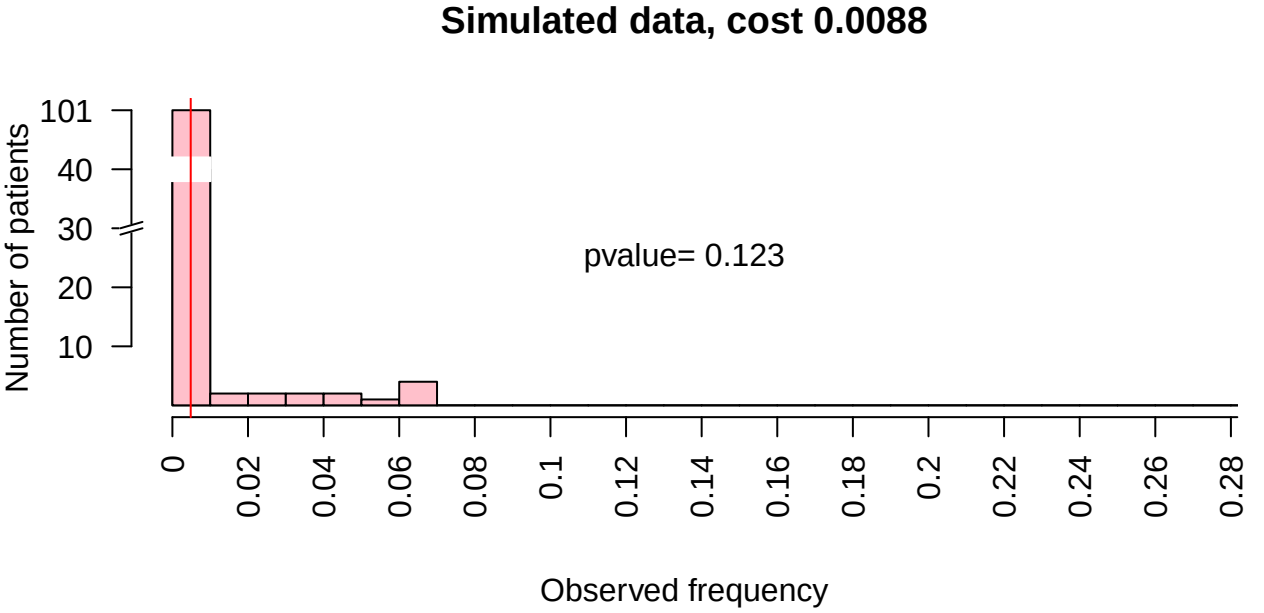

Single−SFS, site 662
Number of patients
120
40
30
20
10
0
0.02
0.04
0.06
Observed frequency

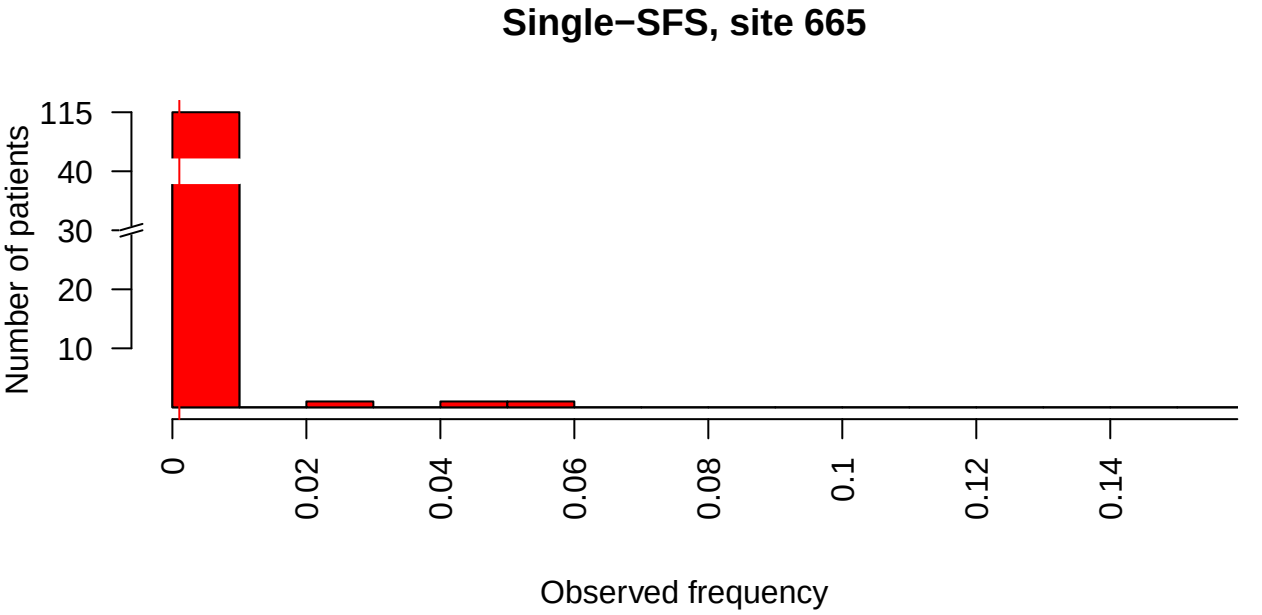

Simulated data, cost 0.005
Number of patients
122
40
30
20
10
pvalue= 0.456
0
0.02
0.04
0.06
Observed frequency

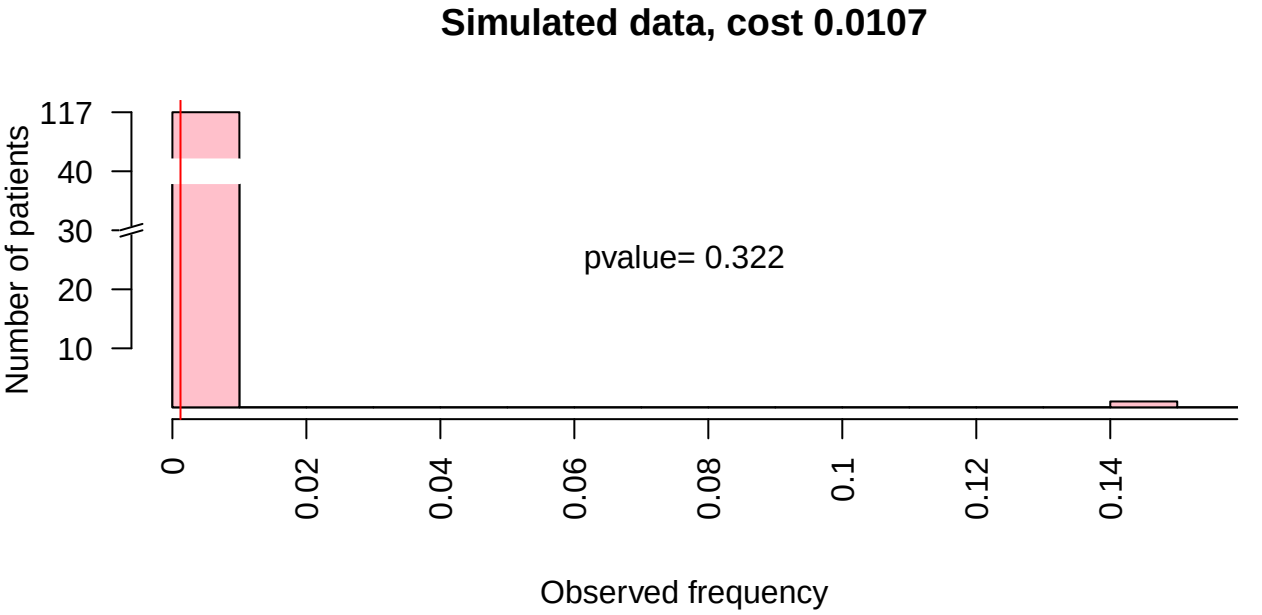

Single−SFS, site 663
Number of patients
104
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
Observed frequency

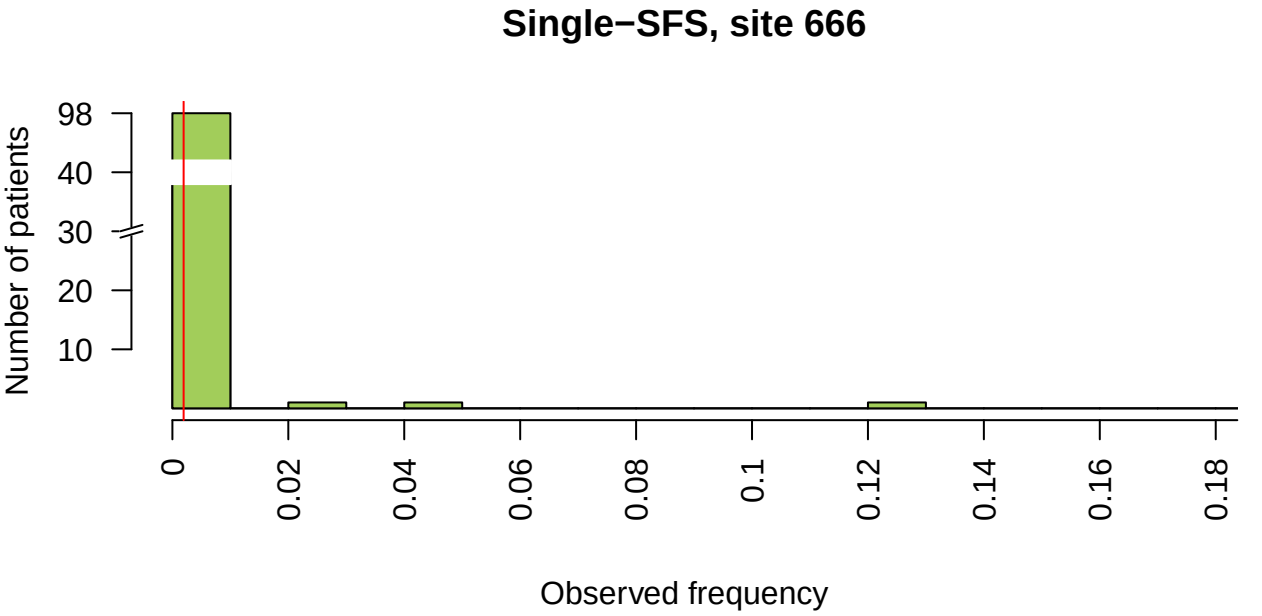

Simulated data, cost 0.0018
Number of patients
108
40
30
20
10
pvalue= 0.334
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
Observed frequency

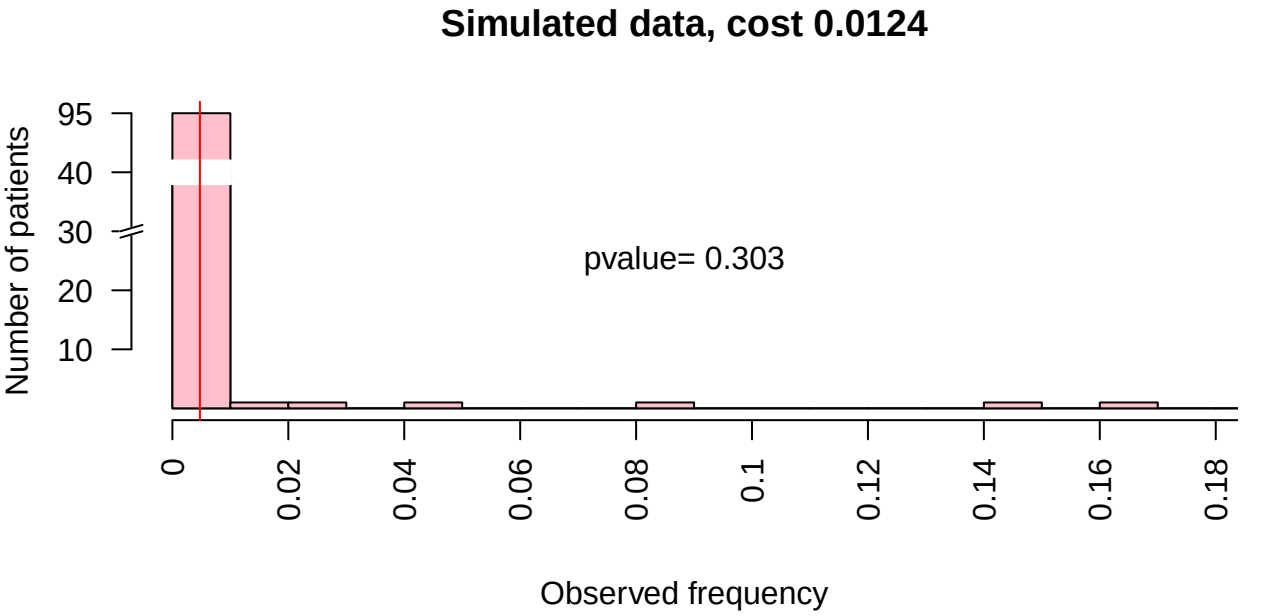

Single−SFS, site 664
Number of patients
108
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
0.24
0.26
0.28
Observed frequency

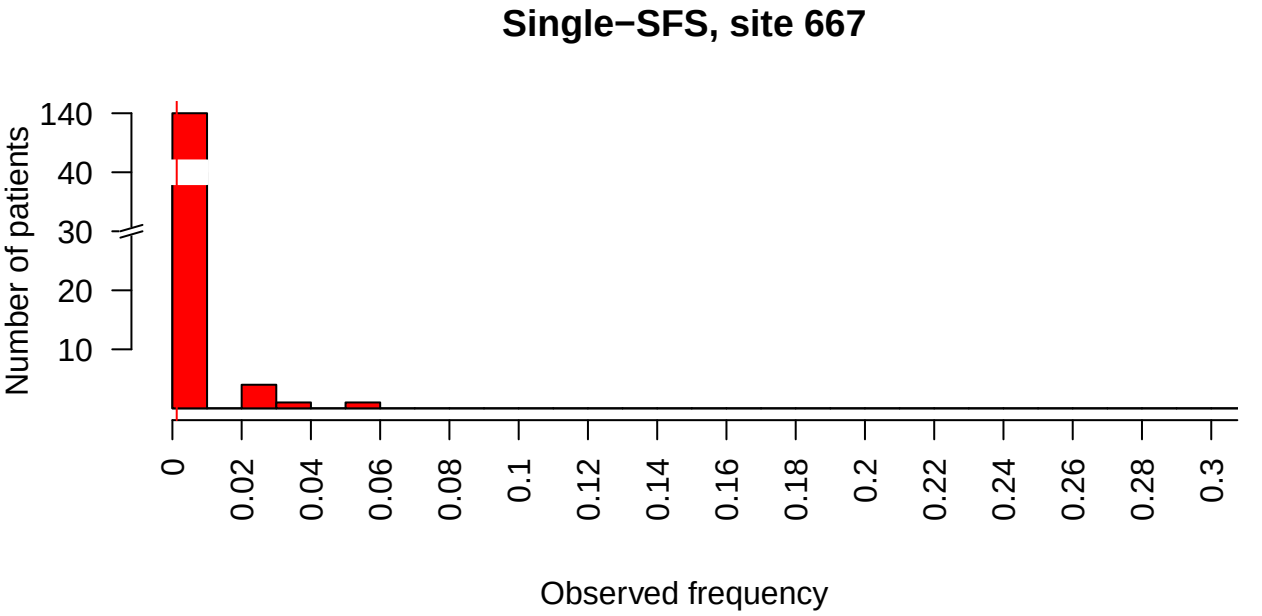

Simulated data, cost 0.0088
Number of patients
101
40
30
20
10
pvalue= 0.123
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
0.24
0.26
0.28
Observed frequency

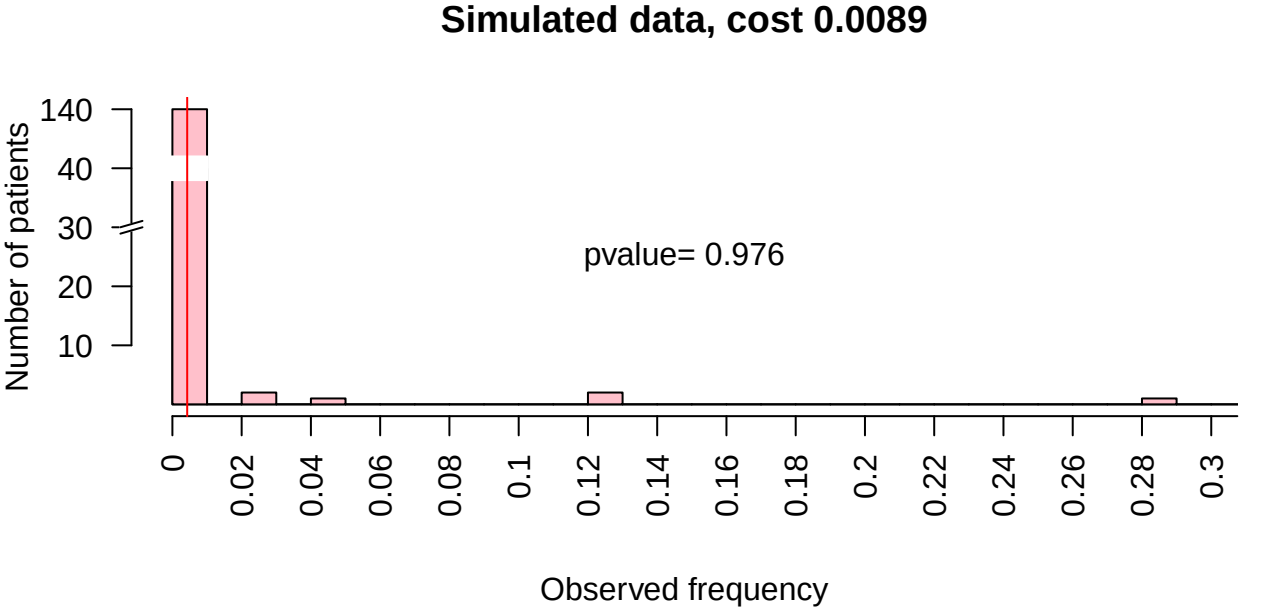

Single−SFS, site 665
Number of patients
115
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
Observed frequency

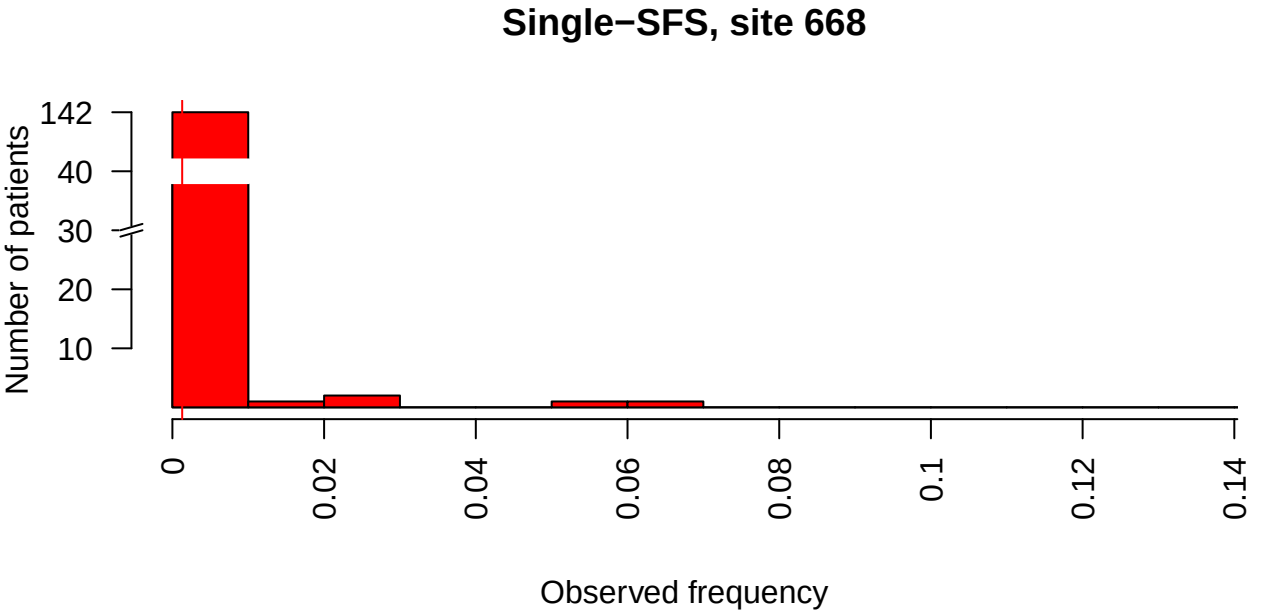

Simulated data, cost 0.0107
Number of patients
117
40
30
20
10
pvalue= 0.322
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
Observed frequency

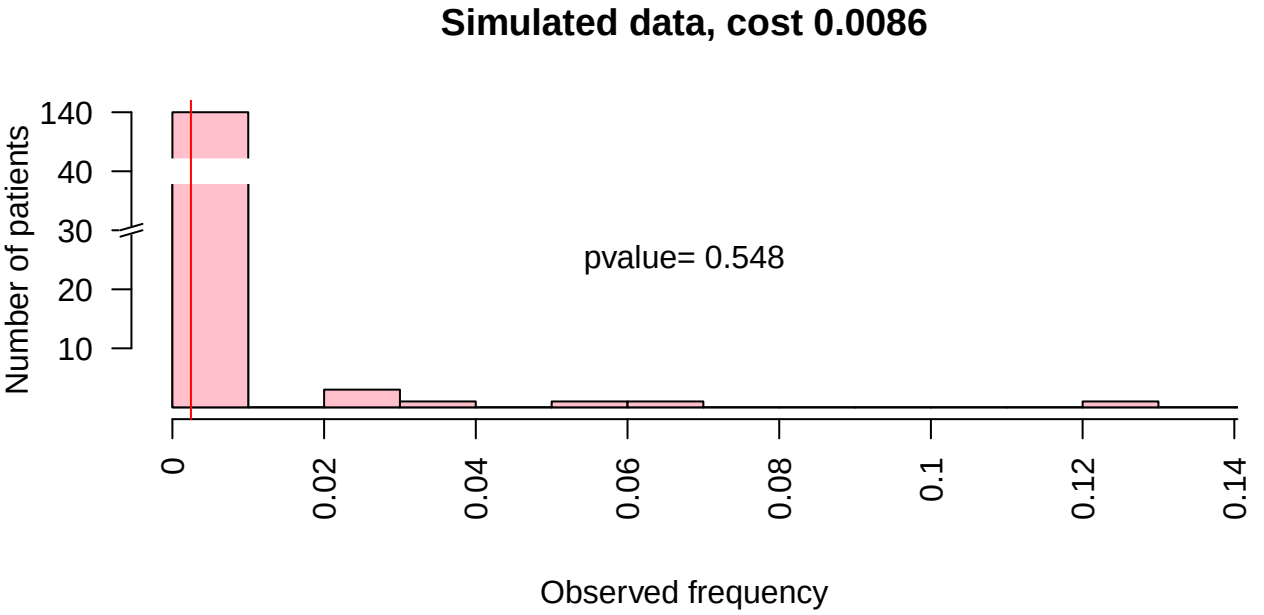

Single−SFS, site 666
Number of patients
98
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
Observed frequency

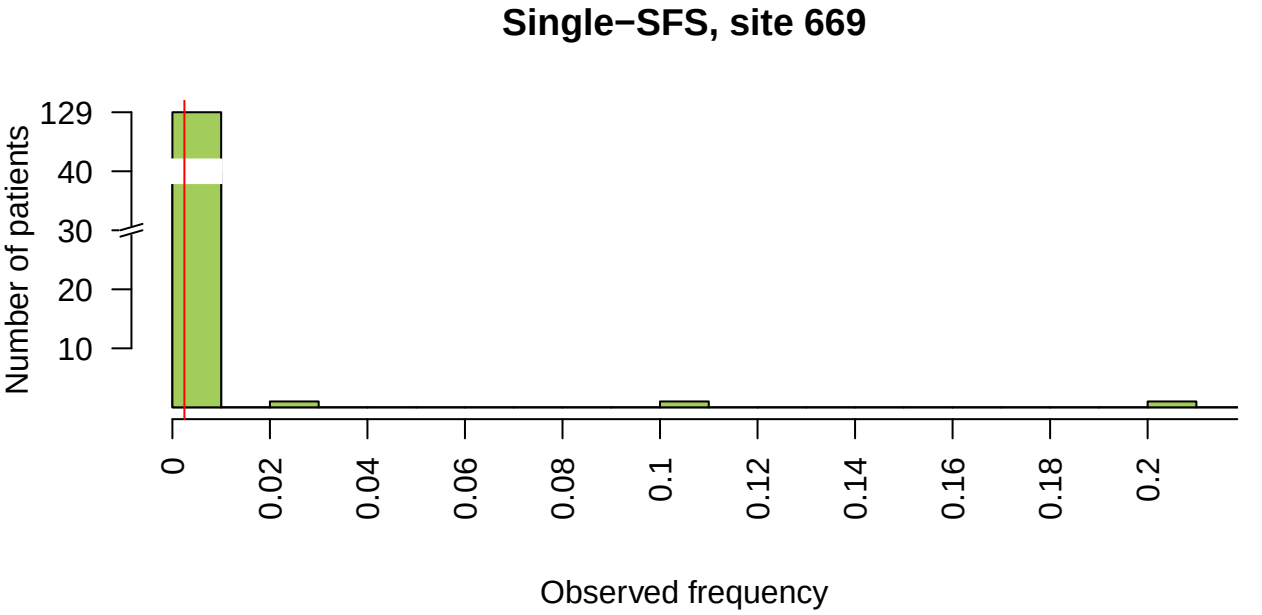

Simulated data, cost 0.0124
Number of patients
95
40
30
20
10
pvalue= 0.303
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
Observed frequency

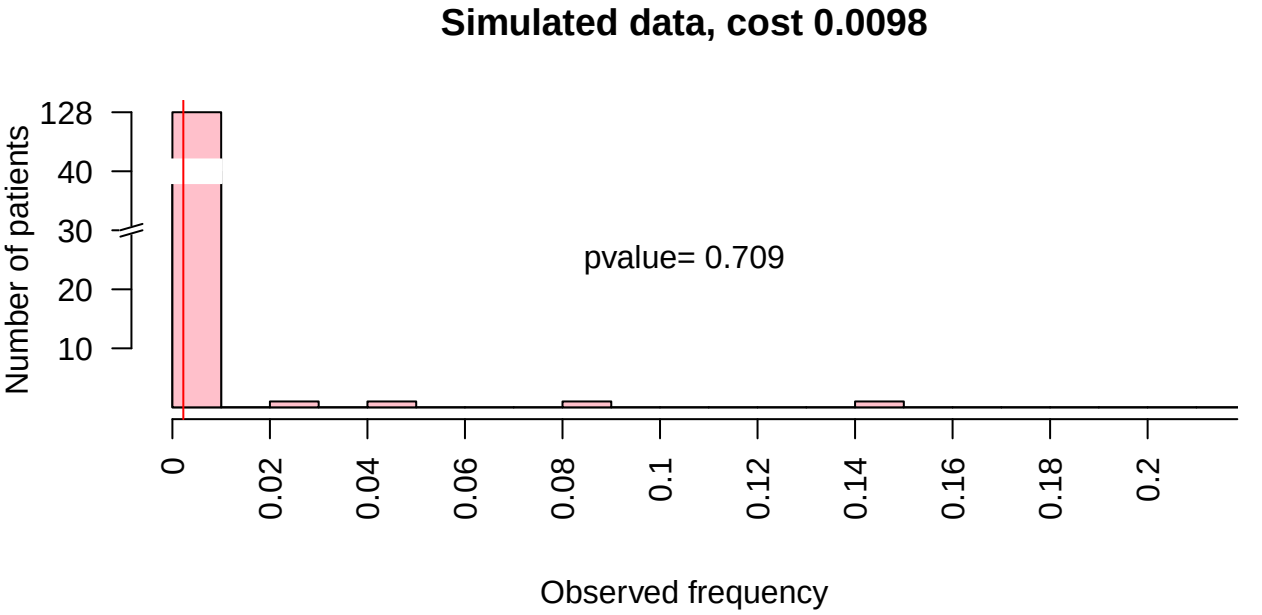

Single−SFS, site 667
Number of patients
140
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
0.24
0.26
0.28
0.3
Observed frequency

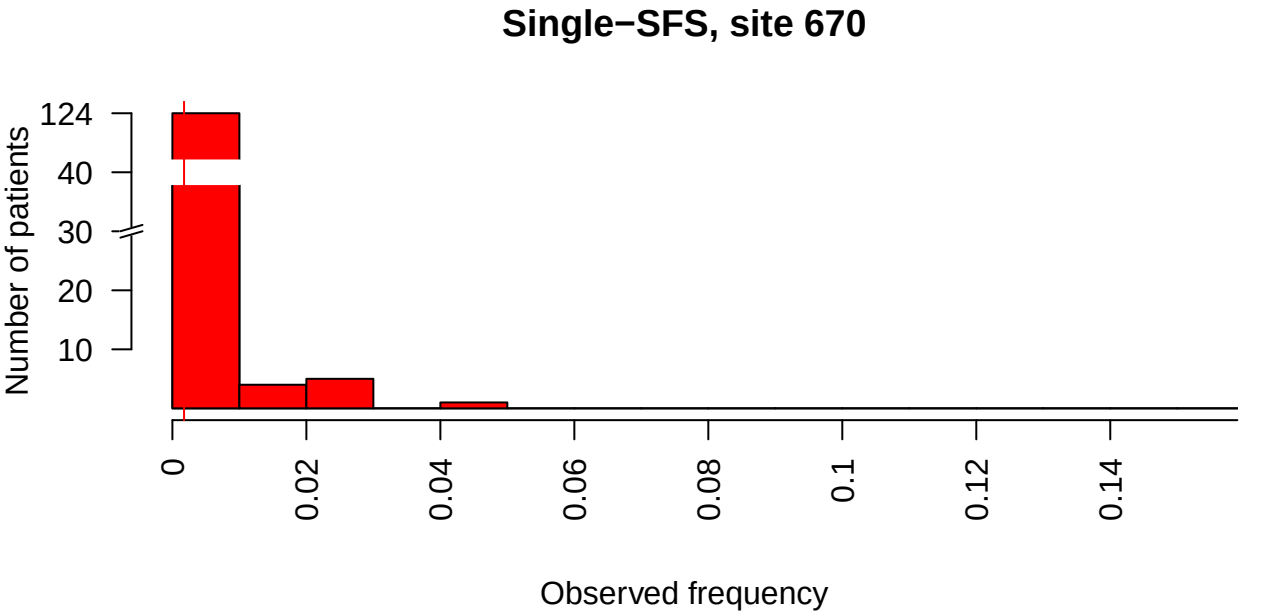

Simulated data, cost 0.0089
Number of patients
140
40
30
20
10
pvalue= 0.976
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
0.24
0.26
0.28
0.3
Observed frequency

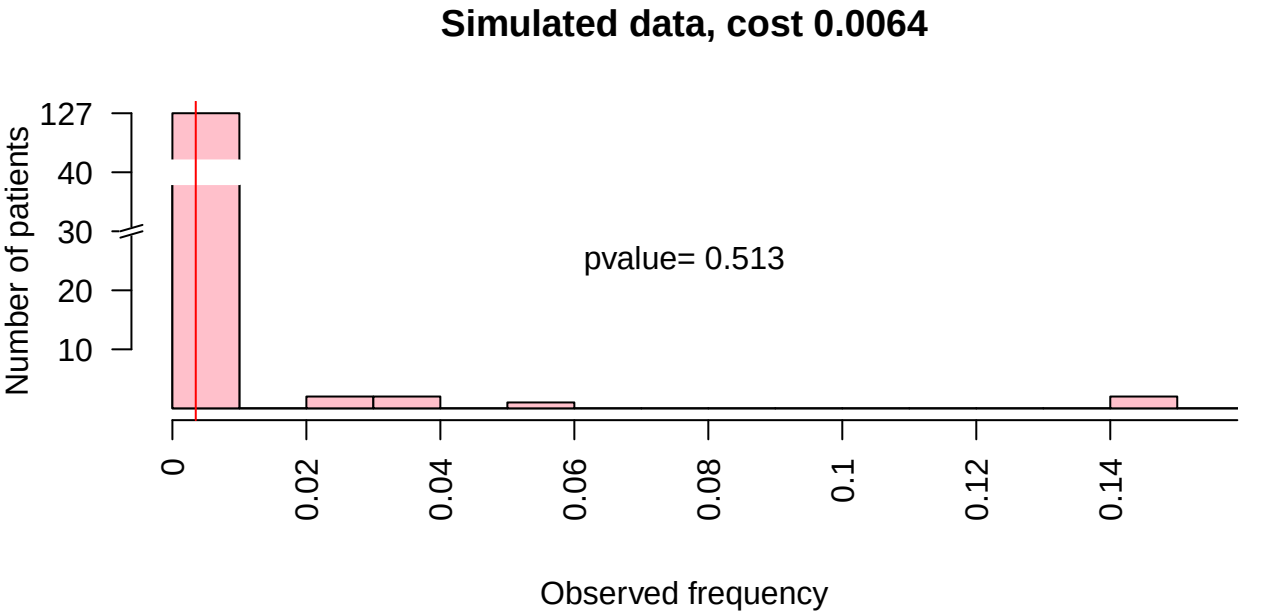

Single−SFS, site 668
Number of patients
142
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
Observed frequency

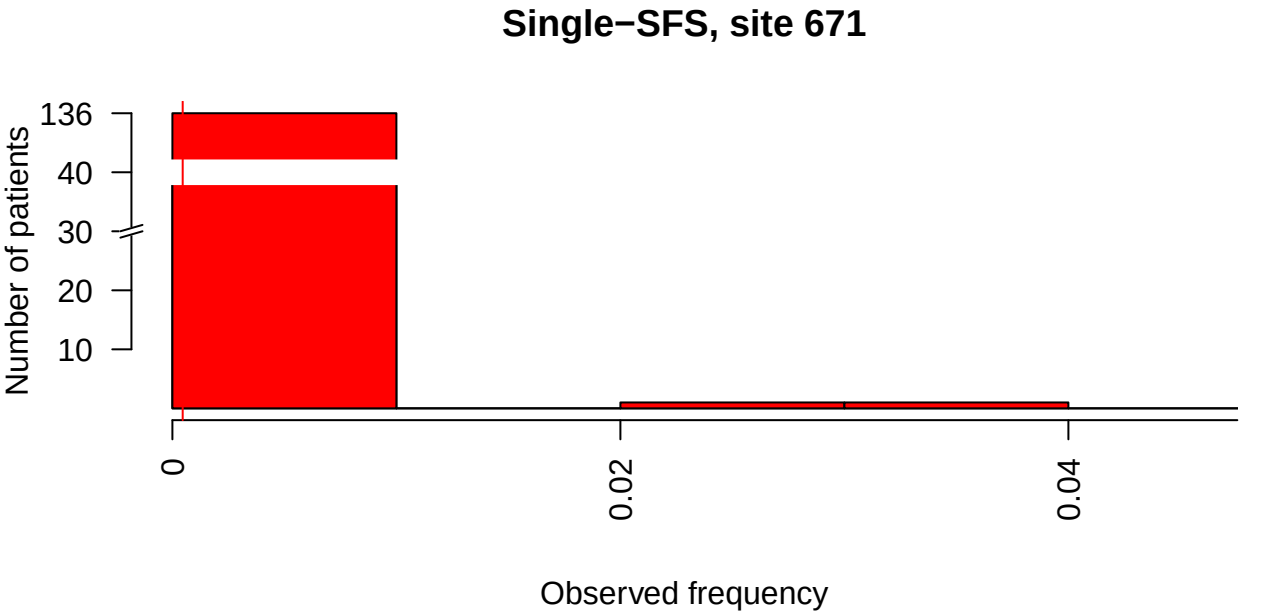

Simulated data, cost 0.0086
Number of patients
140
40
30
20
10
pvalue= 0.548
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
Observed frequency

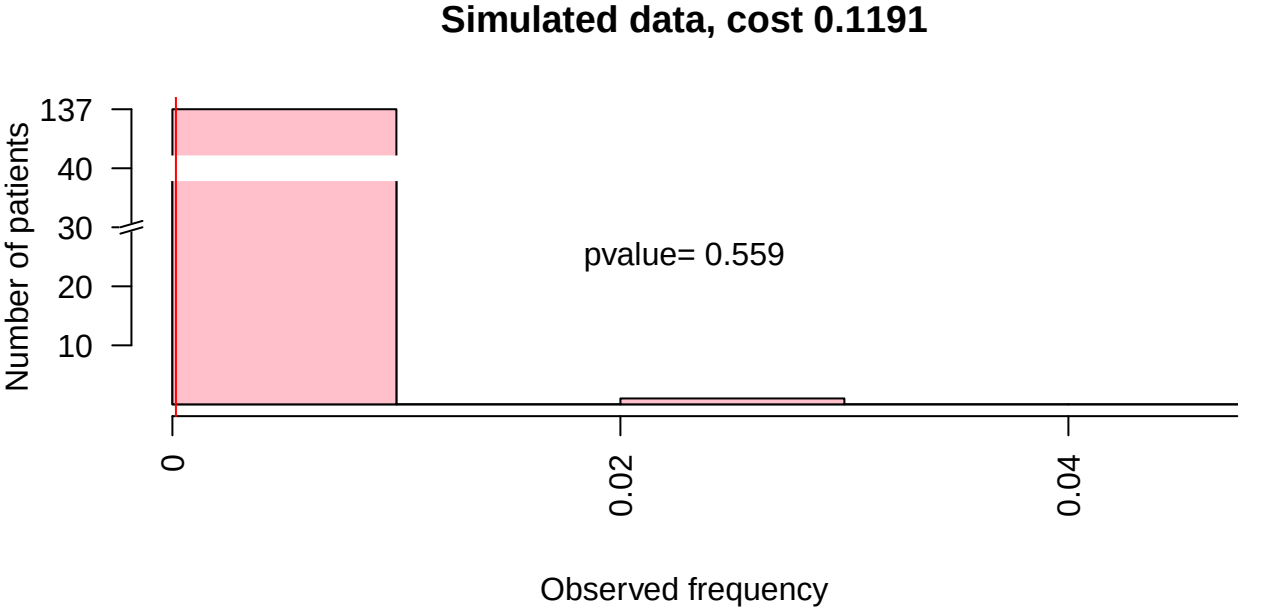

Single−SFS, site 669
Number of patients
129
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
Observed frequency

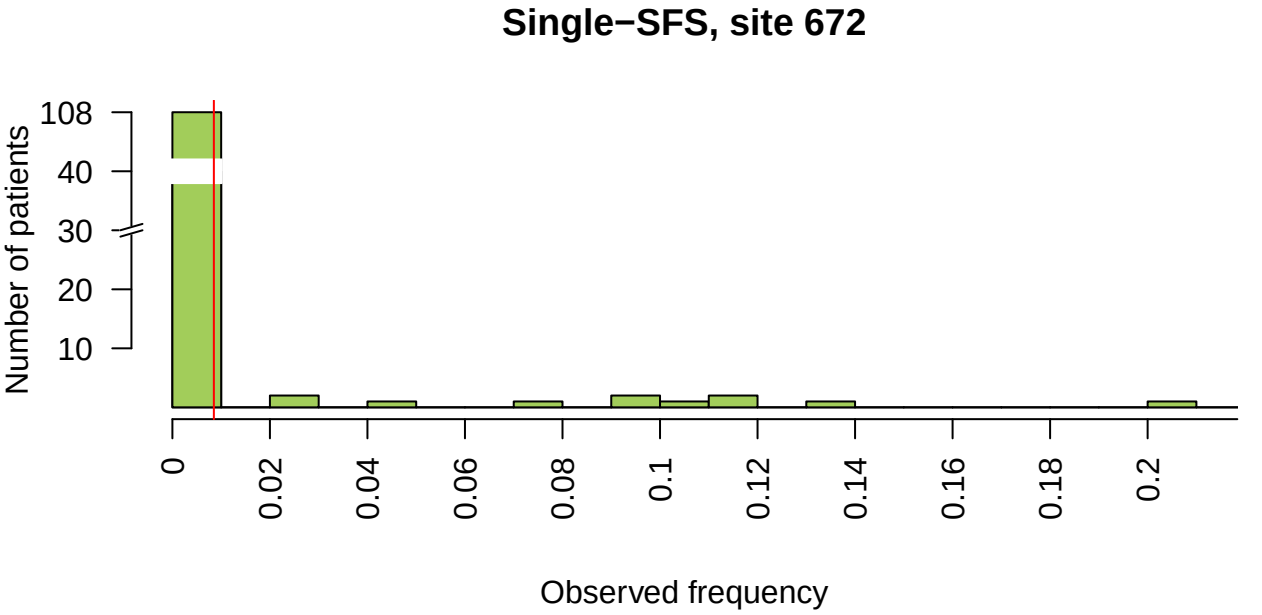

Simulated data, cost 0.0098
Number of patients
128
40
30
20
10
pvalue= 0.709
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
Observed frequency

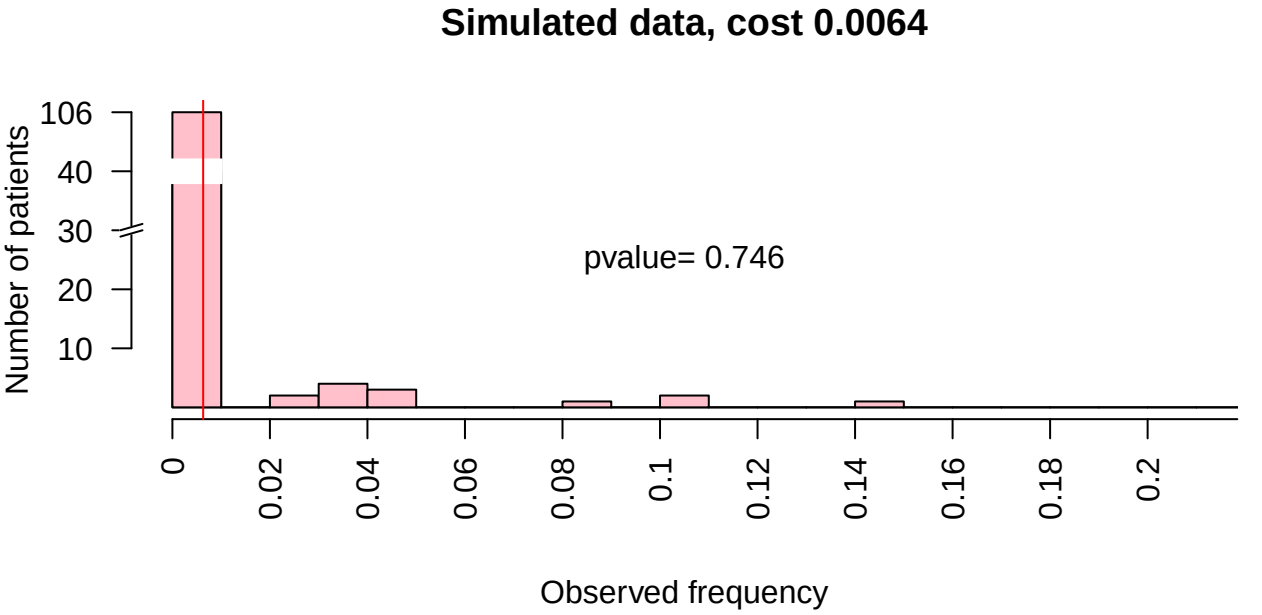

Single−SFS, site 670
Number of patients
124
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
Observed frequency

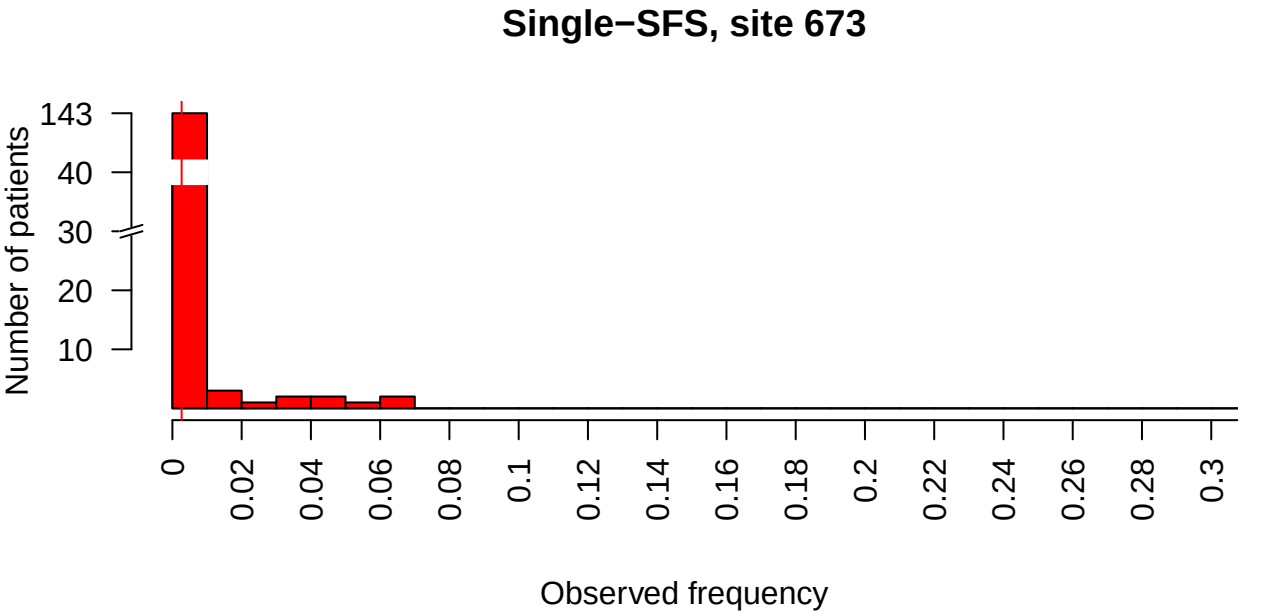

Simulated data, cost 0.0064
Number of patients
127
40
30
20
10
pvalue= 0.513
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
Observed frequency

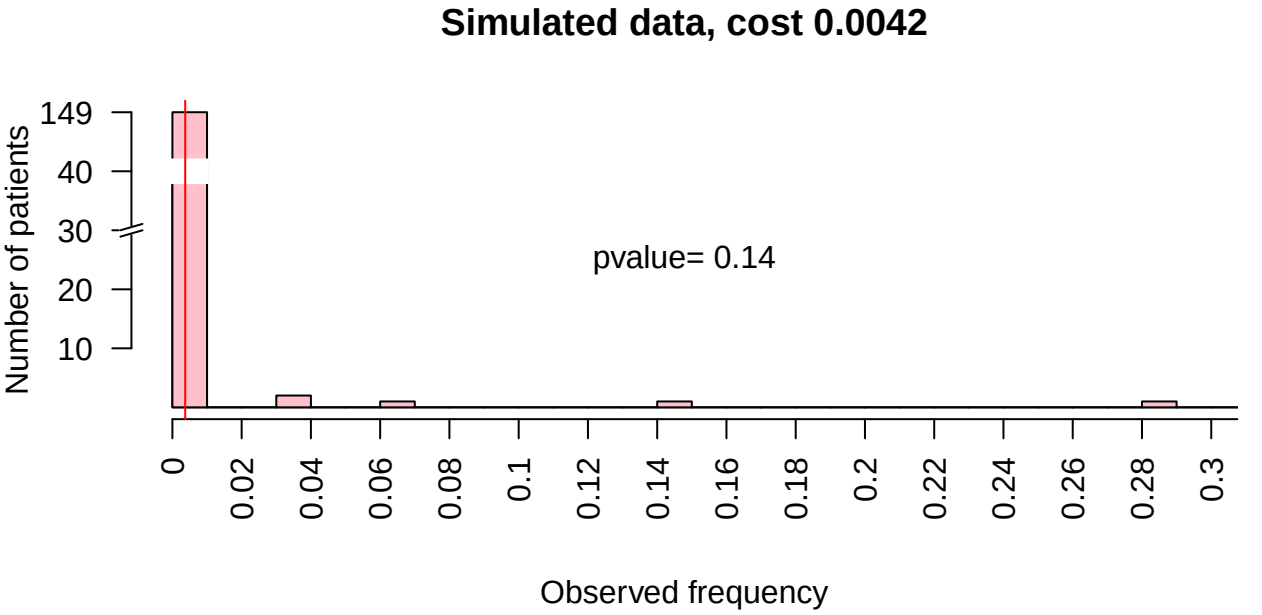

Single−SFS, site 671
Number of patients
136
40
30
20
10
0
0.02
0.04
Observed frequency

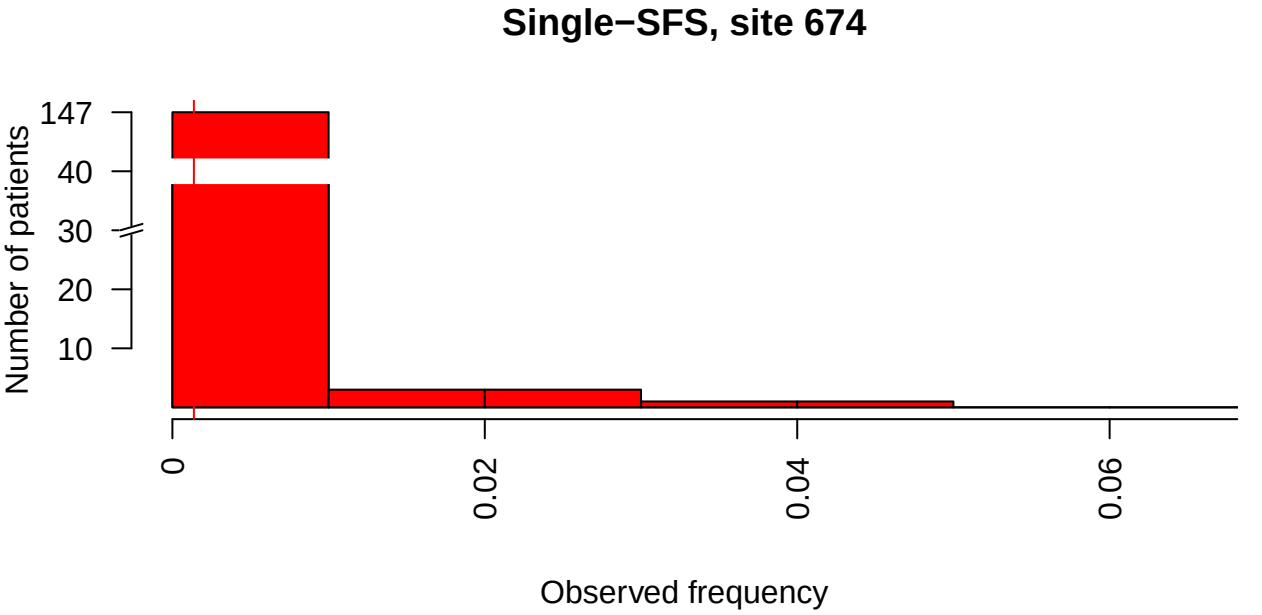

Simulated data, cost 0.1191
Number of patients
137
40
30
20
10
pvalue= 0.559
0
0.02
0.04
Observed frequency

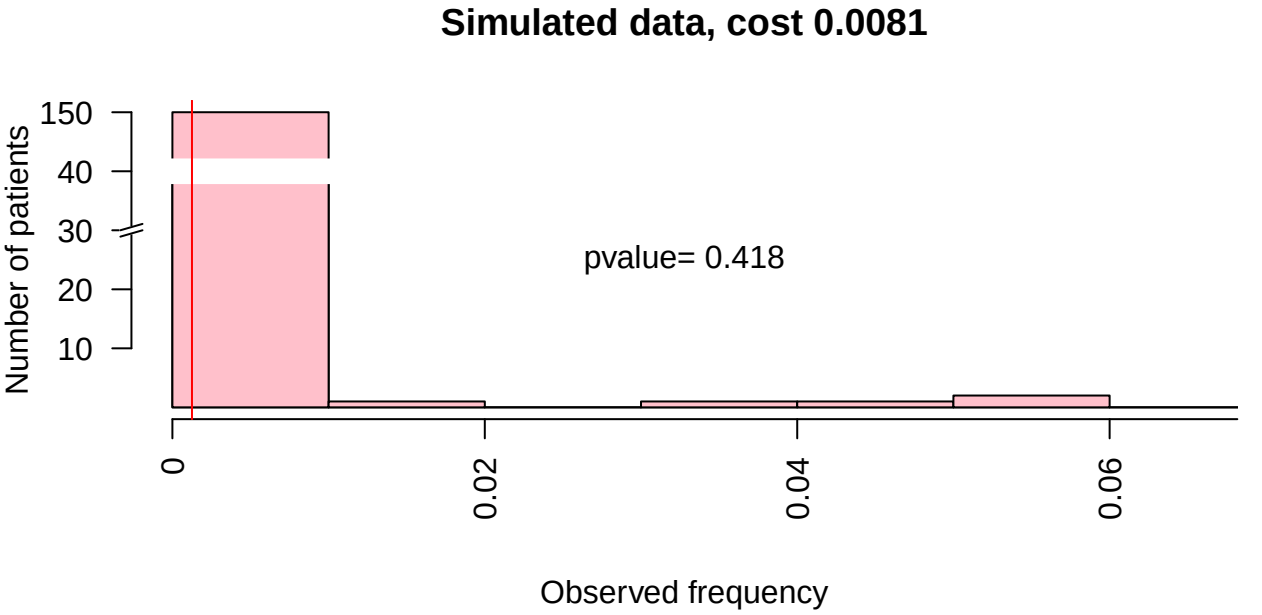

Single−SFS, site 672
Number of patients
108
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
Observed frequency

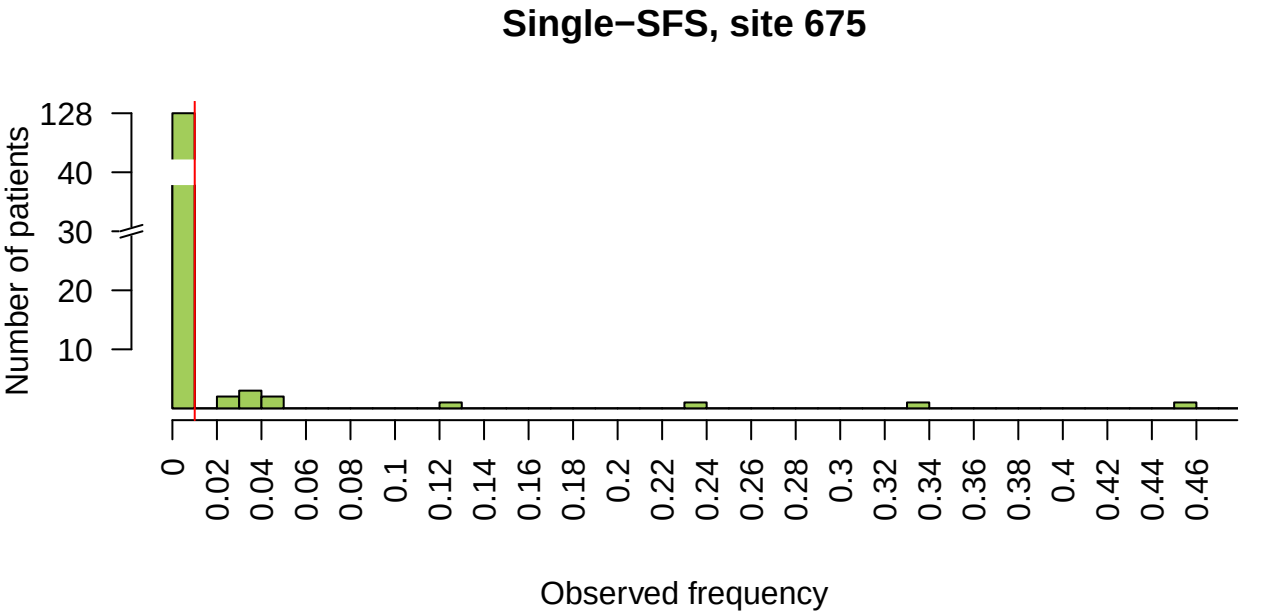

Simulated data, cost 0.0064
Number of patients
106
40
30
20
10
pvalue= 0.746
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
Observed frequency

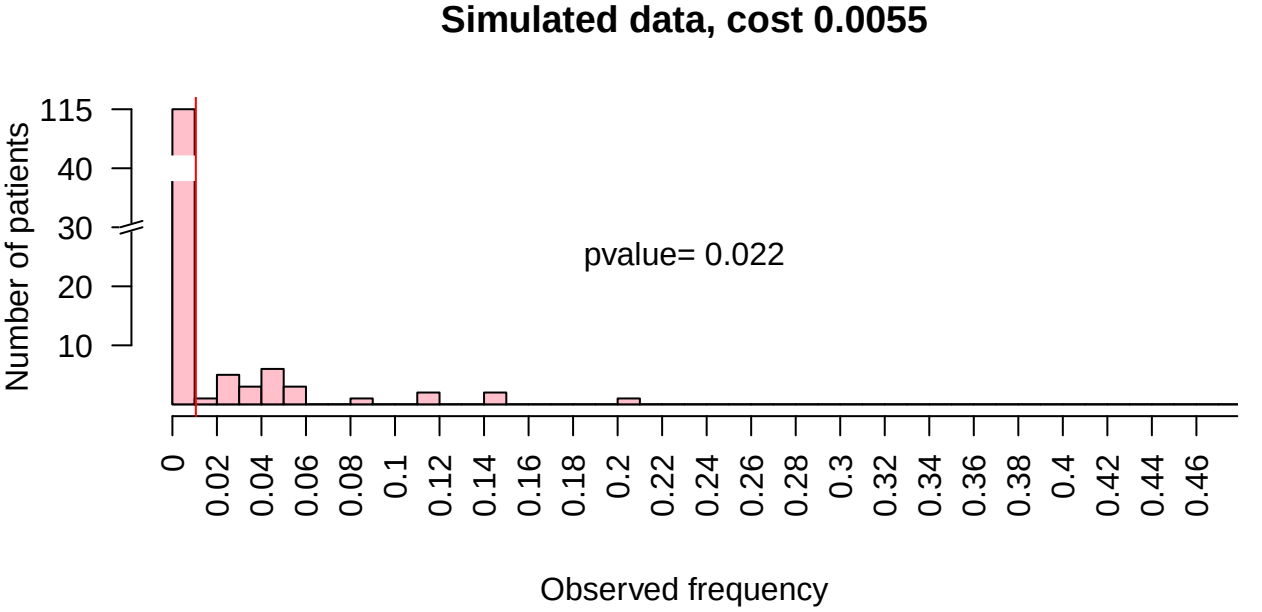

Single−SFS, site 673
Number of patients
143
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
0.24
0.26
0.28
0.3
Observed frequency

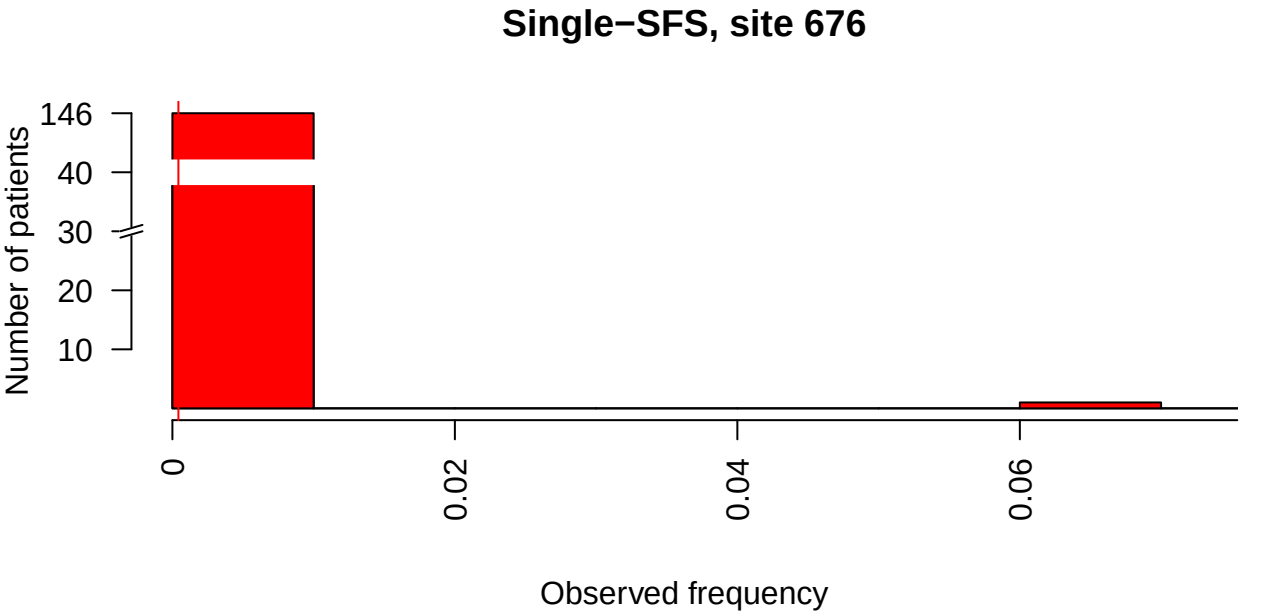

Simulated data, cost 0.0042
Number of patients
149
40
30
20
10
pvalue= 0.14
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
0.24
0.26
0.28
0.3
Observed frequency

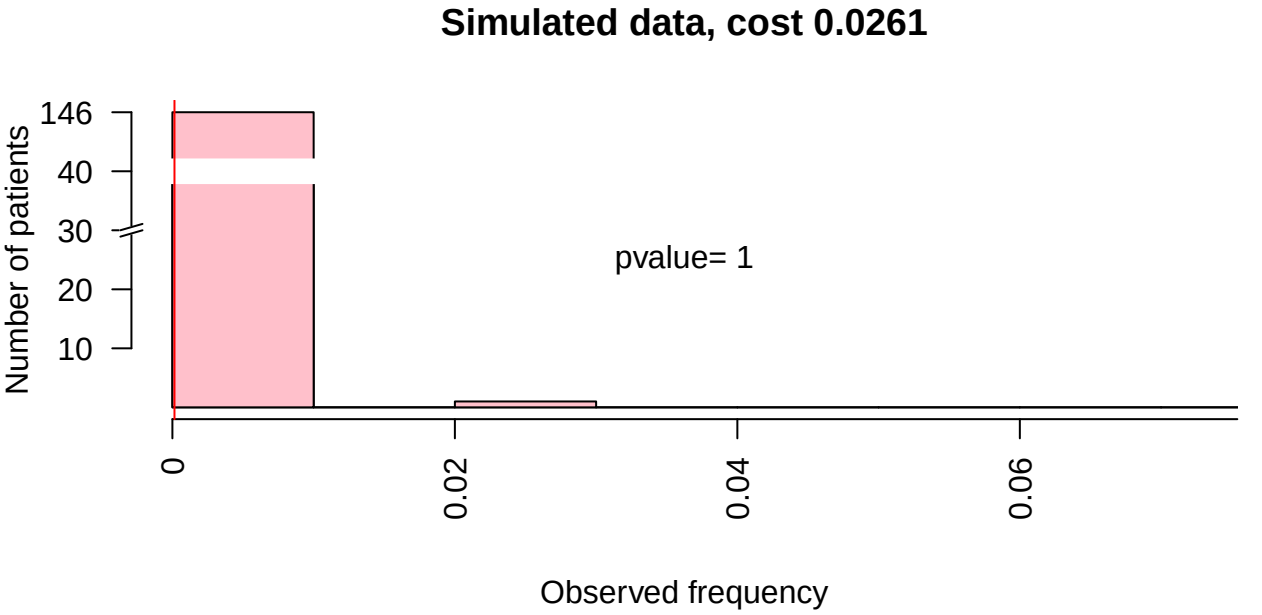

Single−SFS, site 674
Number of patients
147
40
30
20
10
0
0.02
0.04
0.06
Observed frequency

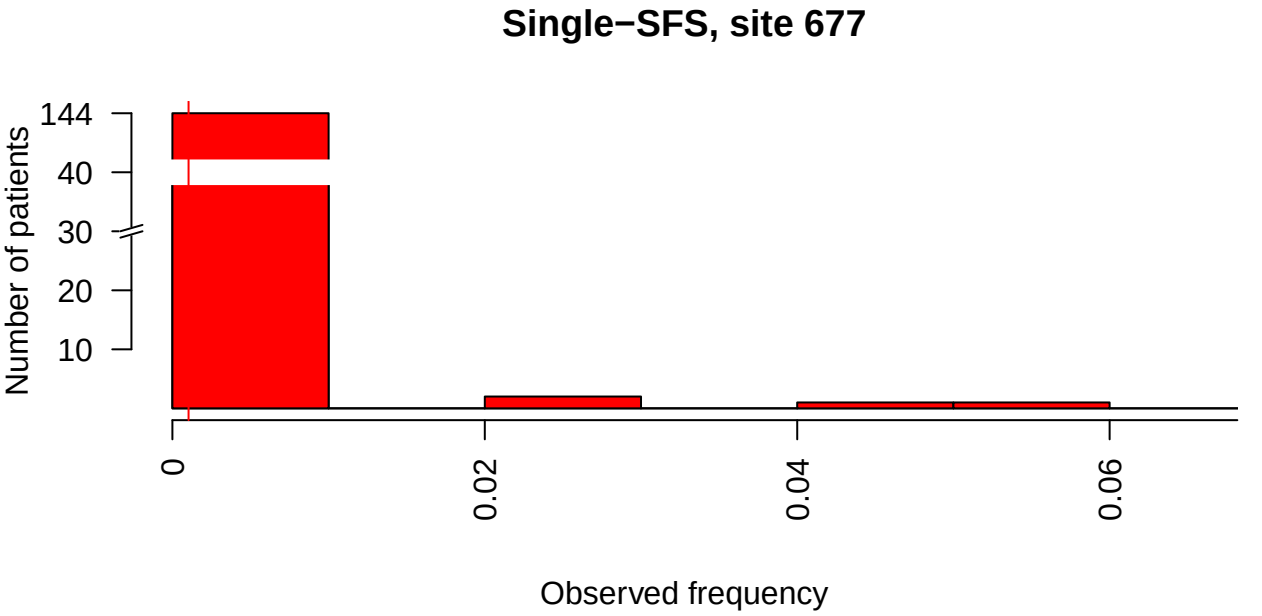

Simulated data, cost 0.0081
Number of patients
150
40
30
20
10
pvalue= 0.418
0
0.02
0.04
0.06
Observed frequency

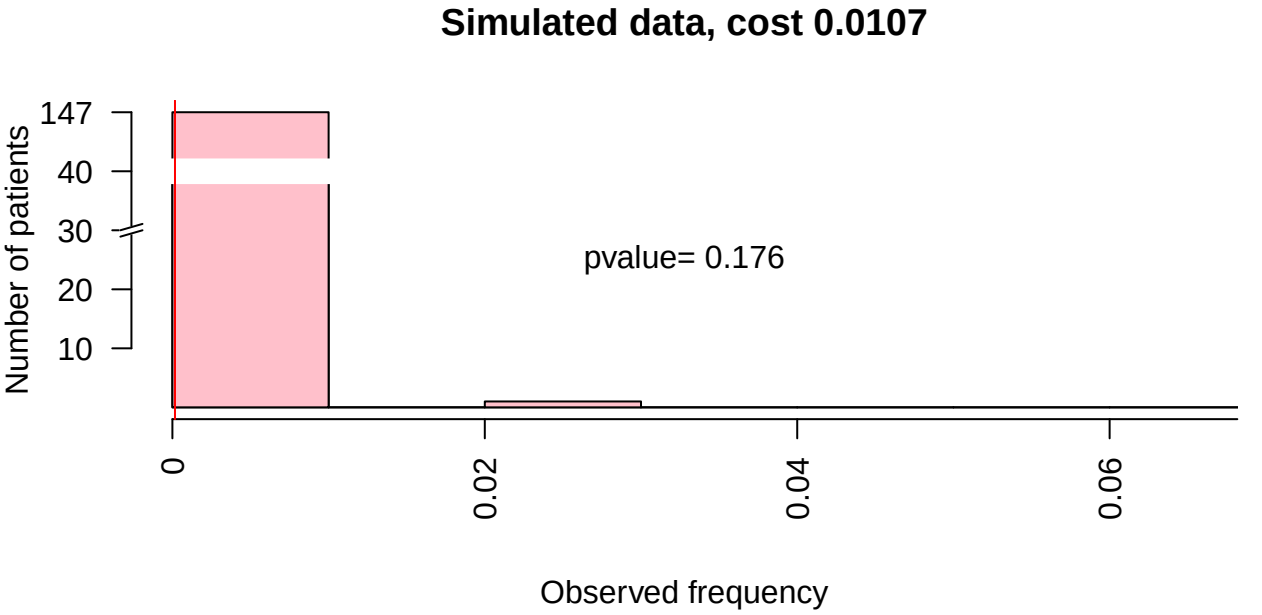

Single−SFS, site 675
Number of patients
128
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
0.24
0.26
0.28
0.3
0.32
0.34
0.36
0.38
0.4
0.42
0.44
0.46
Observed frequency

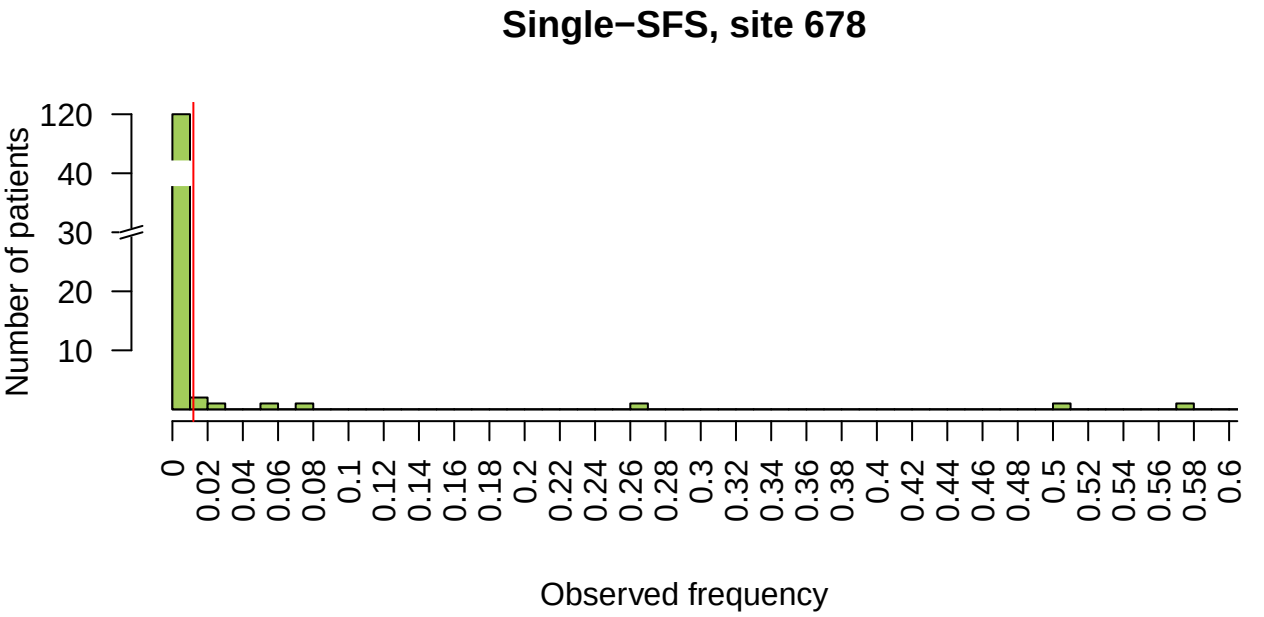

Simulated data, cost 0.0055
Number of patients
115
40
30
20
10
pvalue= 0.022
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
0.24
0.26
0.28
0.3
0.32
0.34
0.36
0.38
0.4
0.42
0.44
0.46
Observed frequency

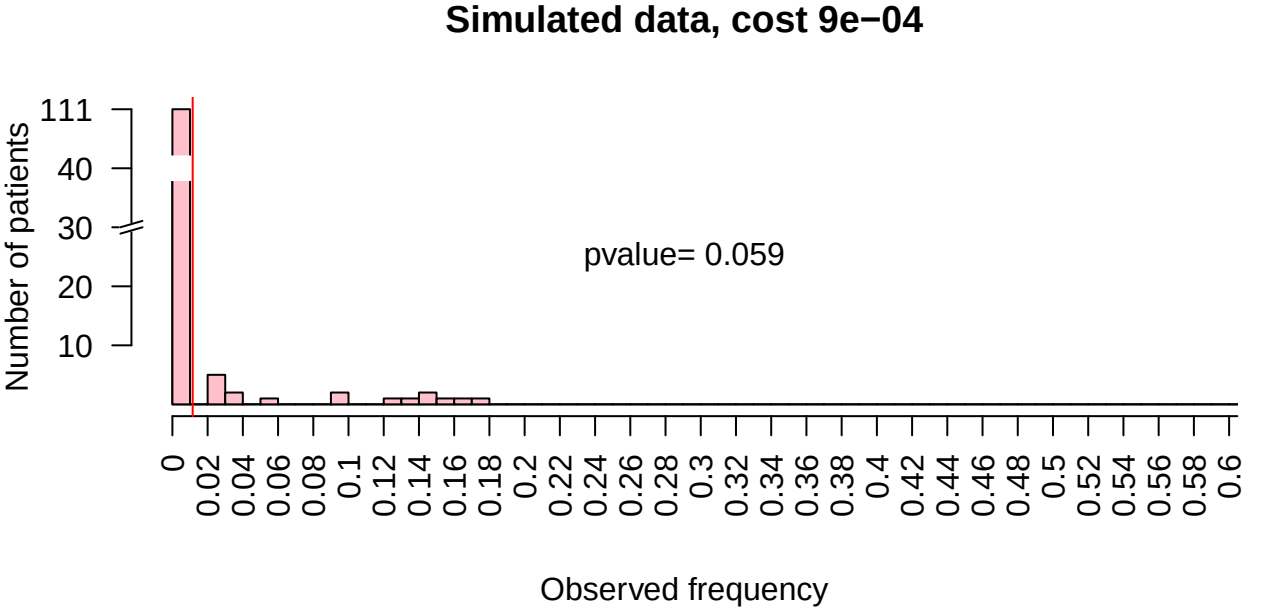

Single−SFS, site 676
Number of patients
146
40
30
20
10
0
0.02
0.04
0.06
Observed frequency

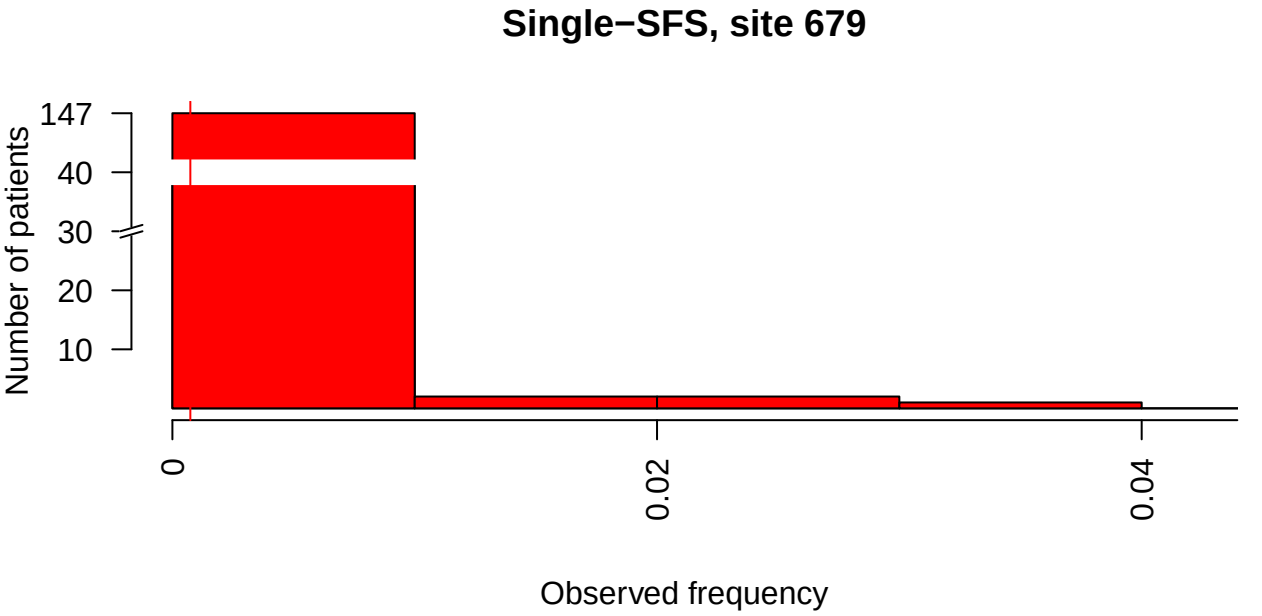

Simulated data, cost 0.0261
Number of patients
146
40
30
20
10
pvalue= 1
0
0.02
0.04
0.06
Observed frequency

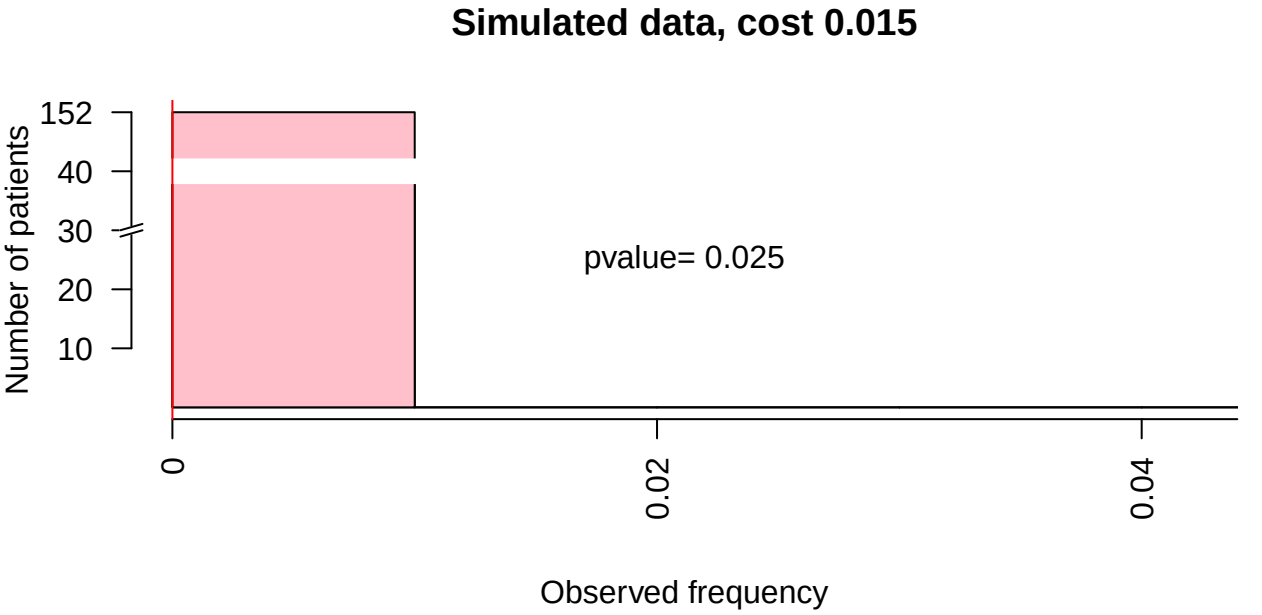

Single−SFS, site 677
Number of patients
144
40
30
20
10
0
0.02
0.04
0.06
Observed frequency

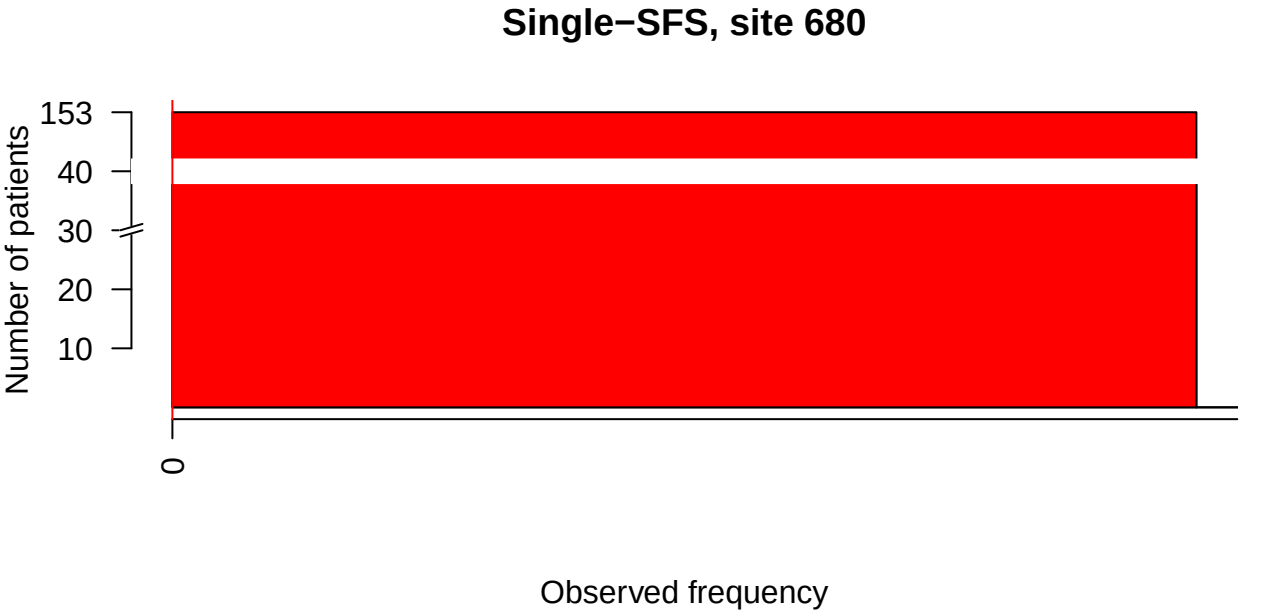

Simulated data, cost 0.0107
Number of patients
147
40
30
20
10
pvalue= 0.176
0
0.02
0.04
0.06
Observed frequency

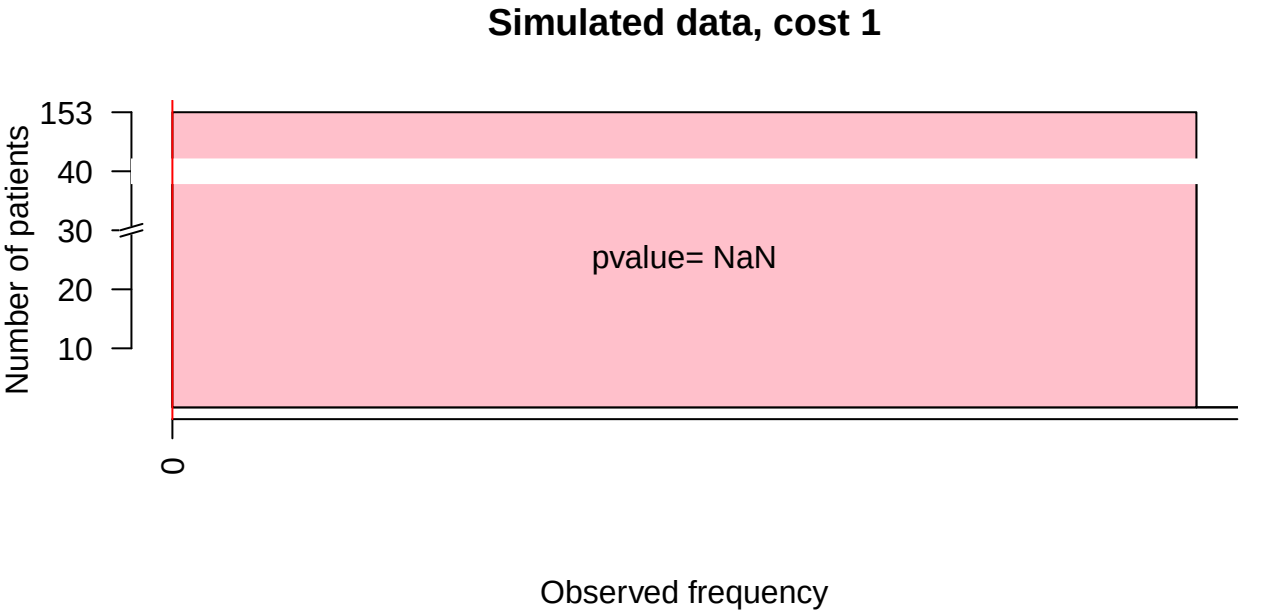

Single−SFS, site 678
Number of patients
120
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
0.24
0.26
0.28
0.3
0.32
0.34
0.36
0.38
0.4
0.42
0.44
0.46
0.48
0.5
0.52
0.54
0.56
0.58
0.6
Observed frequency

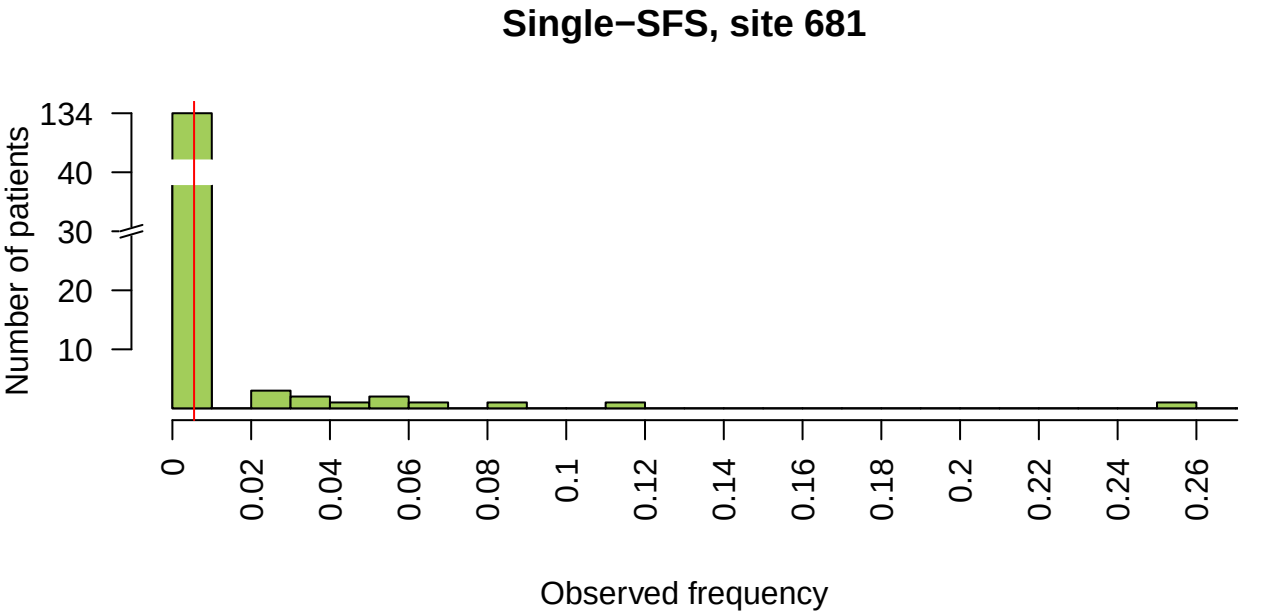

Simulated data, cost 9e−04
Number of patients
111
40
30
20
10
pvalue= 0.059
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
0.24
0.26
0.28
0.3
0.32
0.34
0.36
0.38
0.4
0.42
0.44
0.46
0.48
0.5
0.52
0.54
0.56
0.58
0.6
Observed frequency

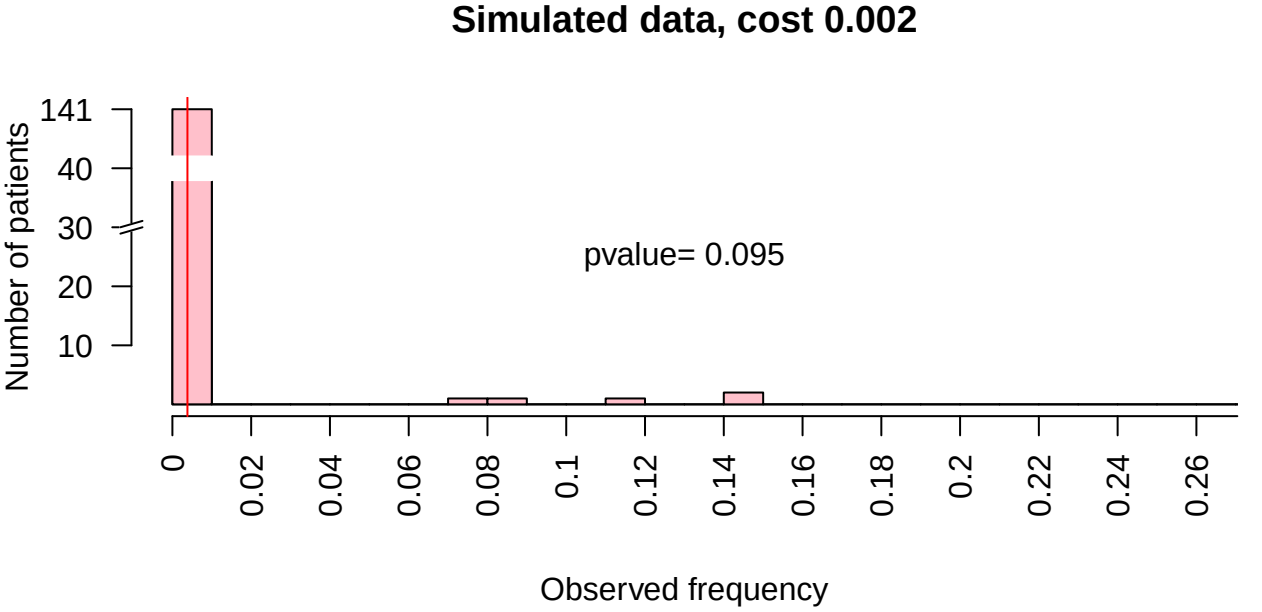

Single−SFS, site 679
Number of patients
147
40
30
20
10
0
0.02
0.04
Observed frequency

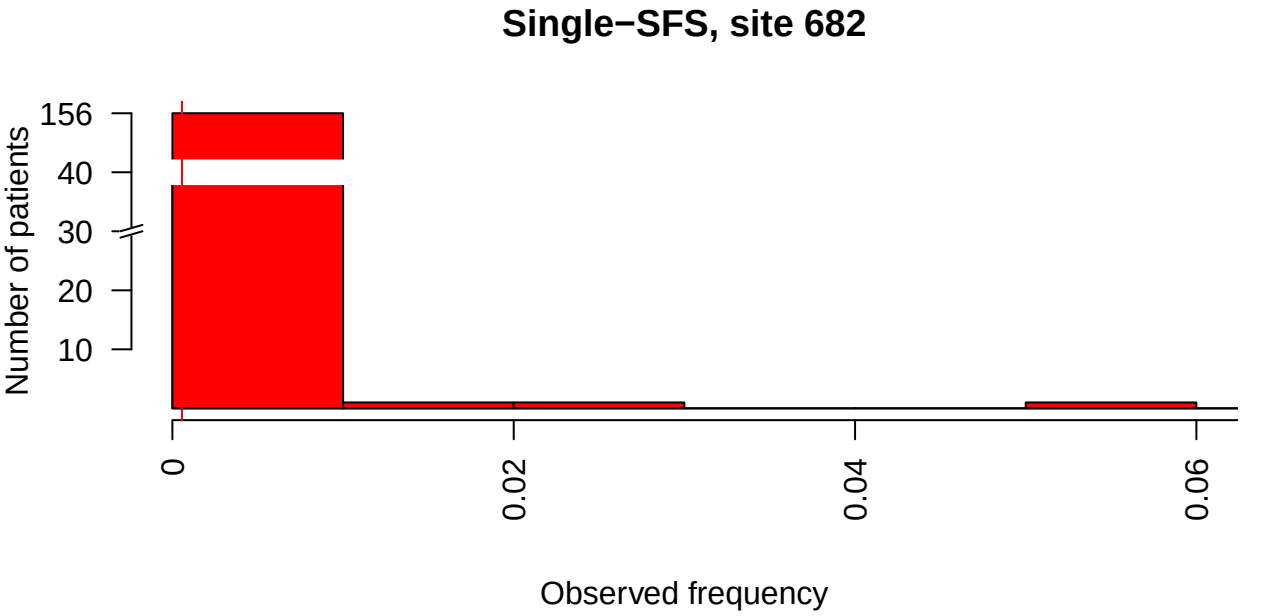

Simulated data, cost 0.015
Number of patients
152
40
30
20
10
pvalue= 0.025
0
0.02
0.04
Observed frequency

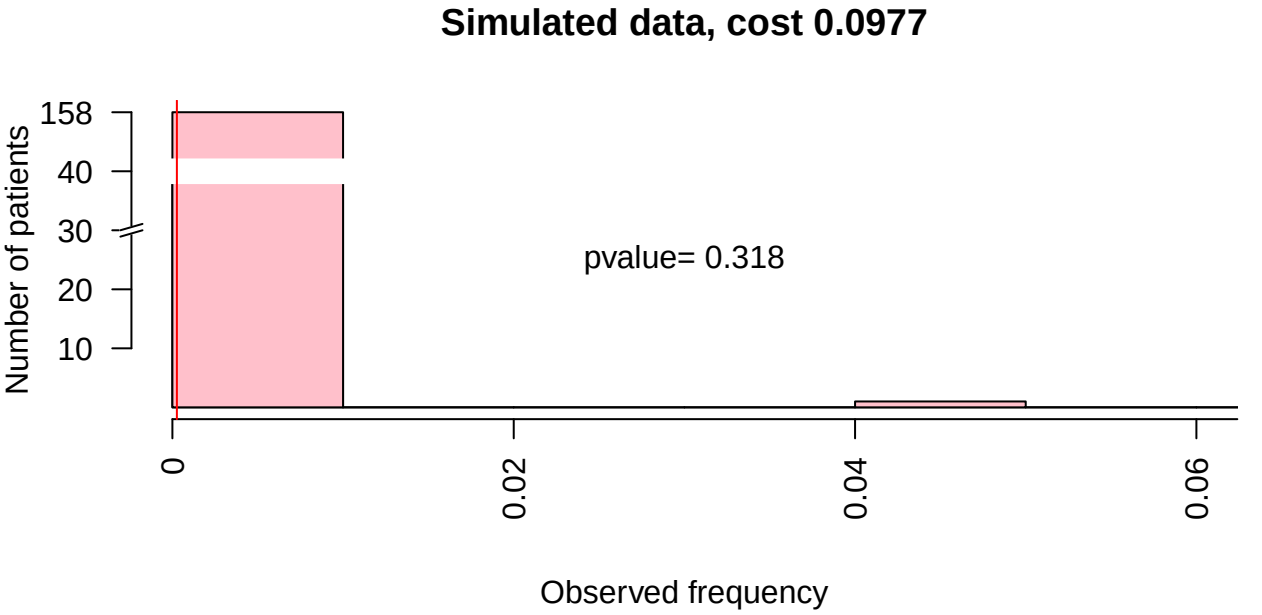

Single−SFS, site 680
Number of patients
153
40
30
20
10
0
Observed frequency

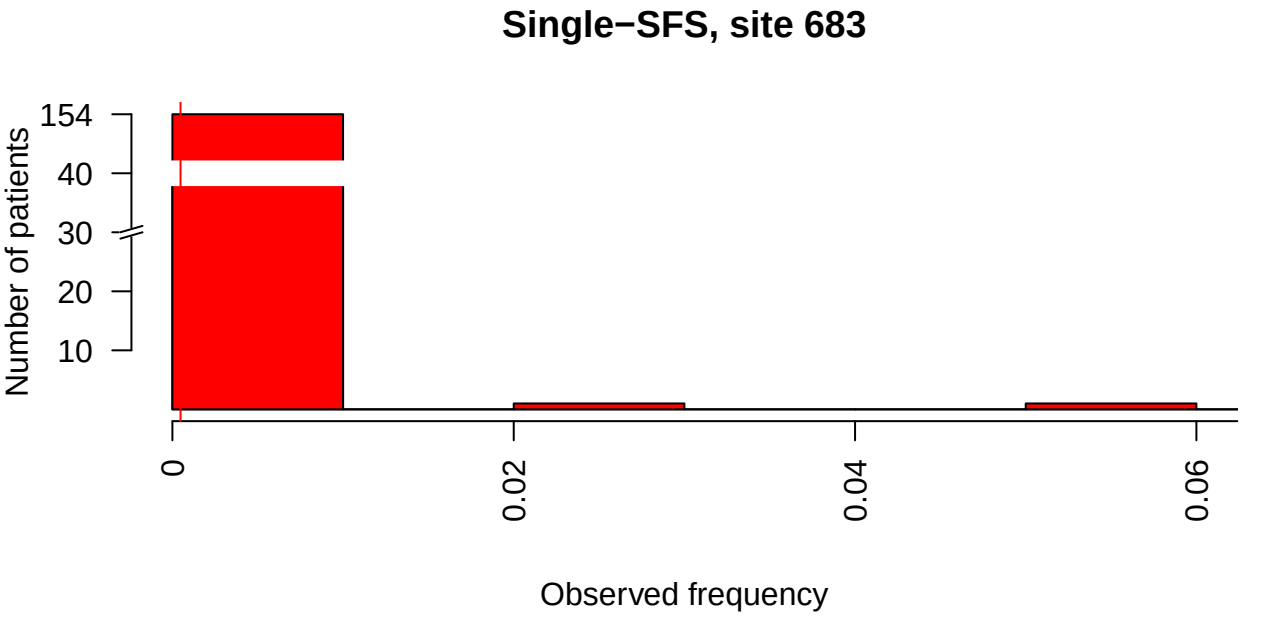

Simulated data, cost 1
Number of patients
153
40
30
20
10
0
pvalue= NaN
Observed frequency

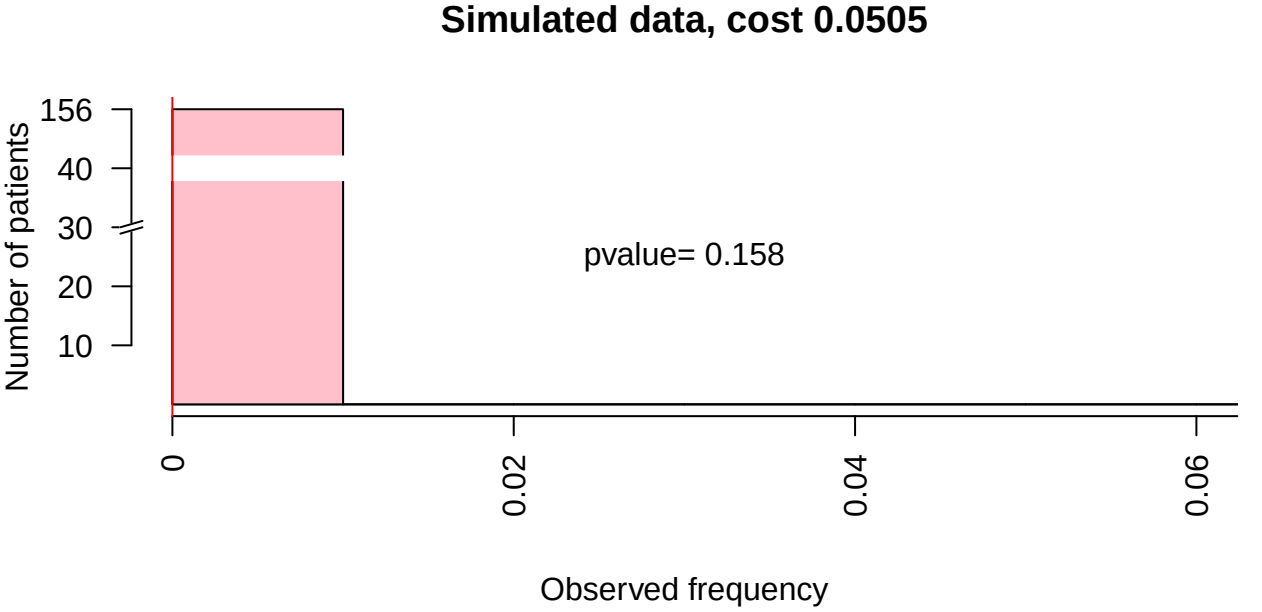

Single−SFS, site 681
Number of patients
134
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
0.24
0.26
Observed frequency

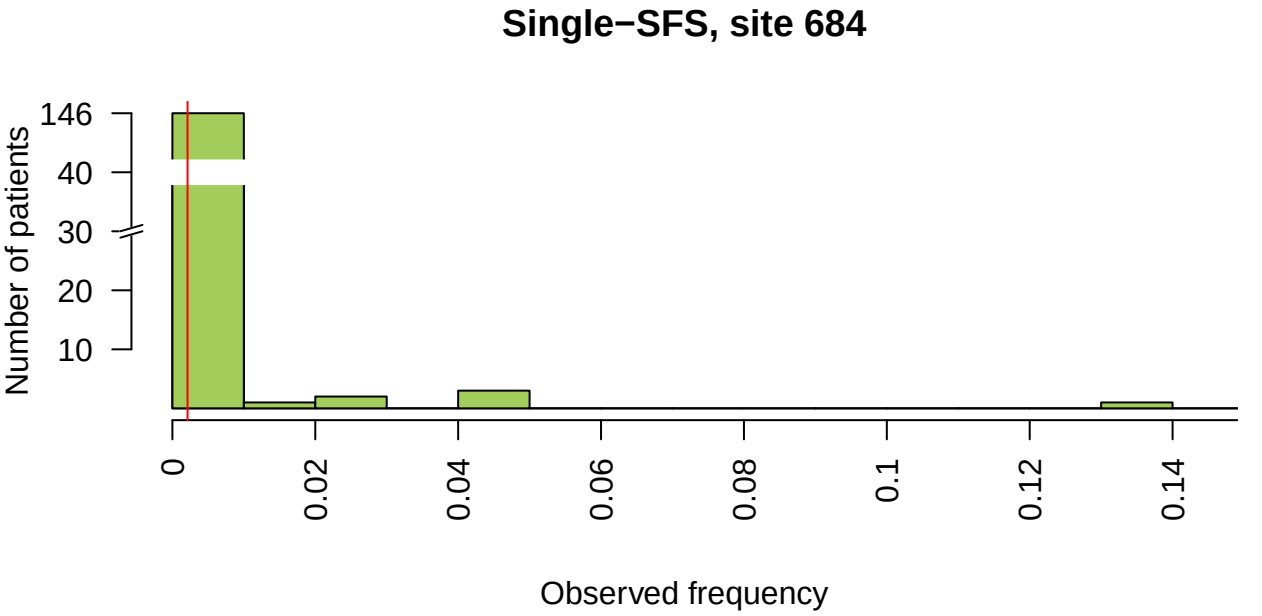

Simulated data, cost 0.002
Number of patients
141
40
30
20
10
pvalue= 0.095
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
0.24
0.26
Observed frequency

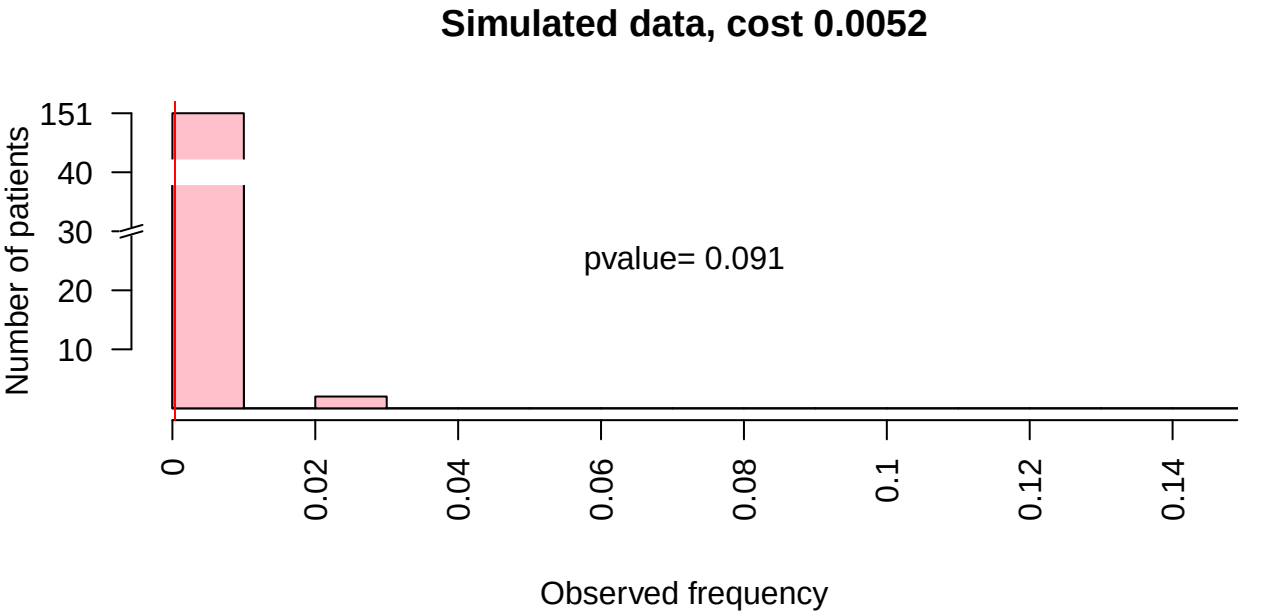

Single−SFS, site 682
Number of patients
156
40
30
20
10
0
0.02
0.04
0.06
Observed frequency

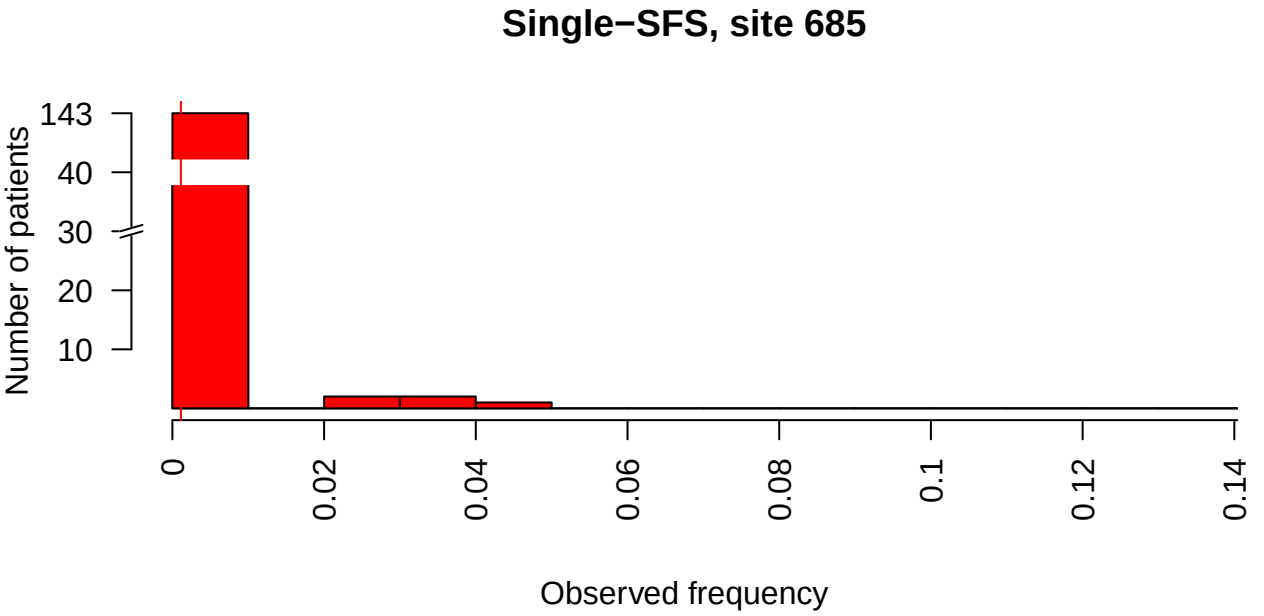

Simulated data, cost 0.0977
Number of patients
158
40
30
20
10
pvalue= 0.318
0
0.02
0.04
0.06
Observed frequency

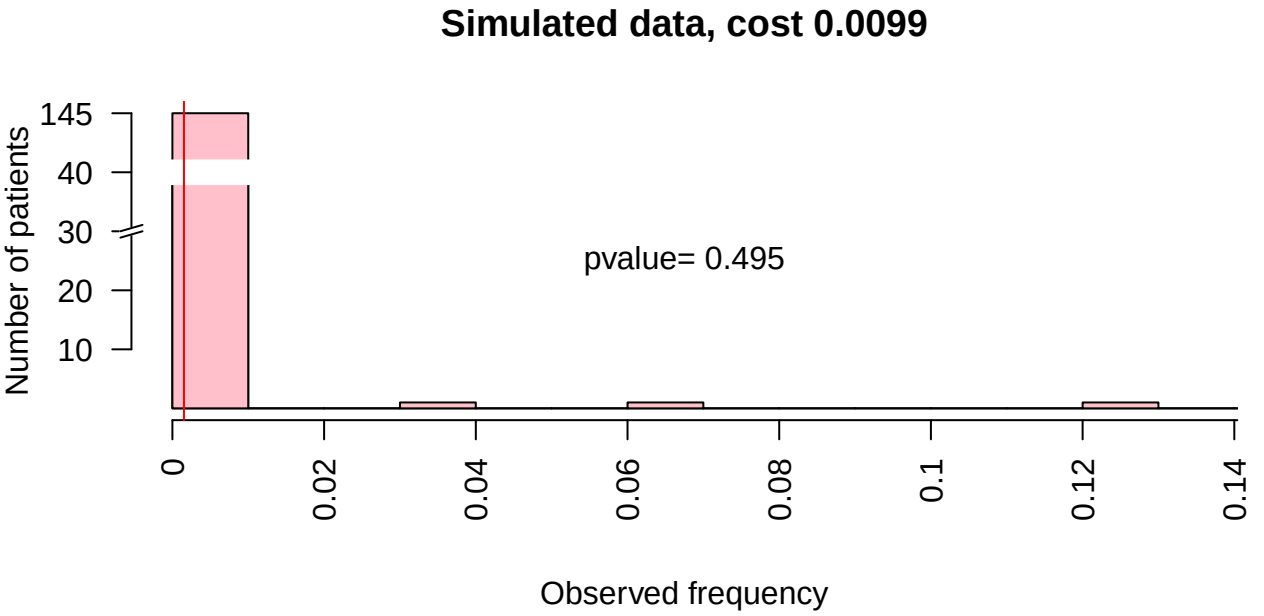

Single−SFS, site 683
Number of patients
154
40
30
20
10
0
0.02
0.04
0.06
Observed frequency

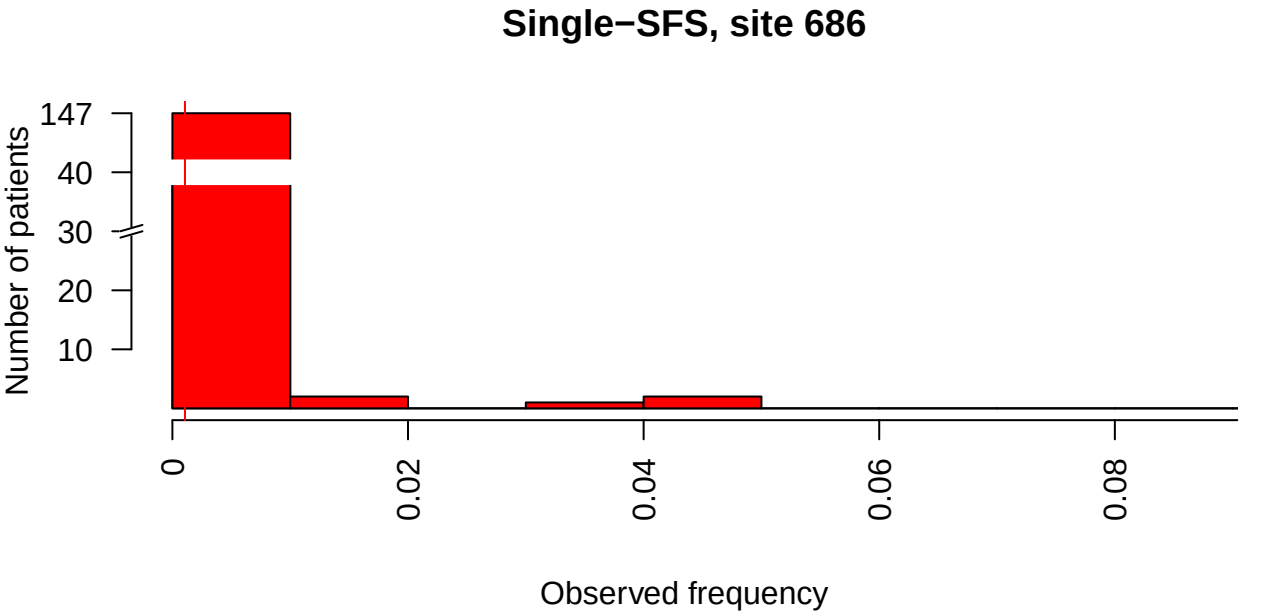

Simulated data, cost 0.0505
Number of patients
156
40
30
20
10
pvalue= 0.158
0
0.02
0.04
0.06
Observed frequency

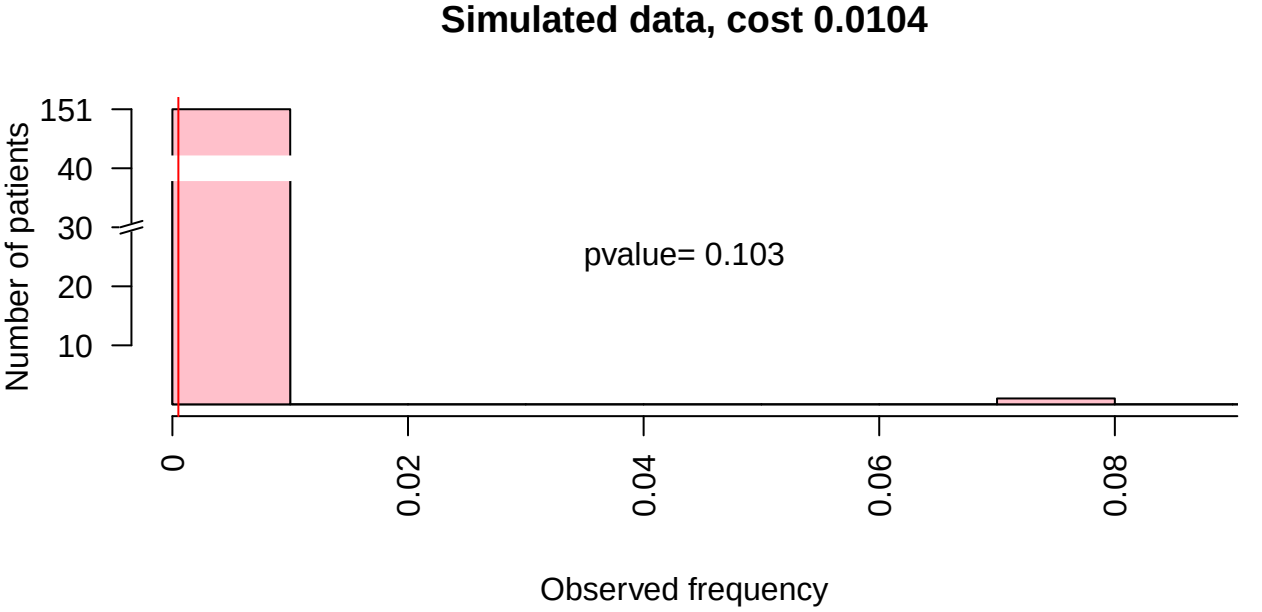

Single−SFS, site 684
Number of patients
146
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
Observed frequency

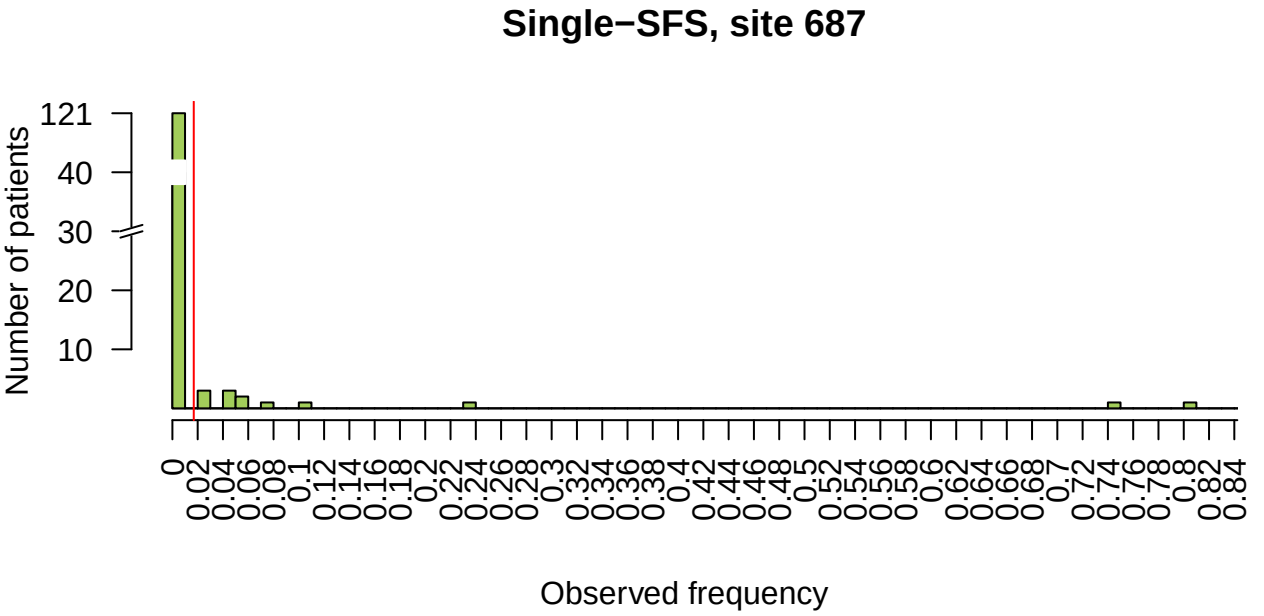

Simulated data, cost 0.0052
Number of patients
151
40
30
20
10
pvalue= 0.091
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
Observed frequency

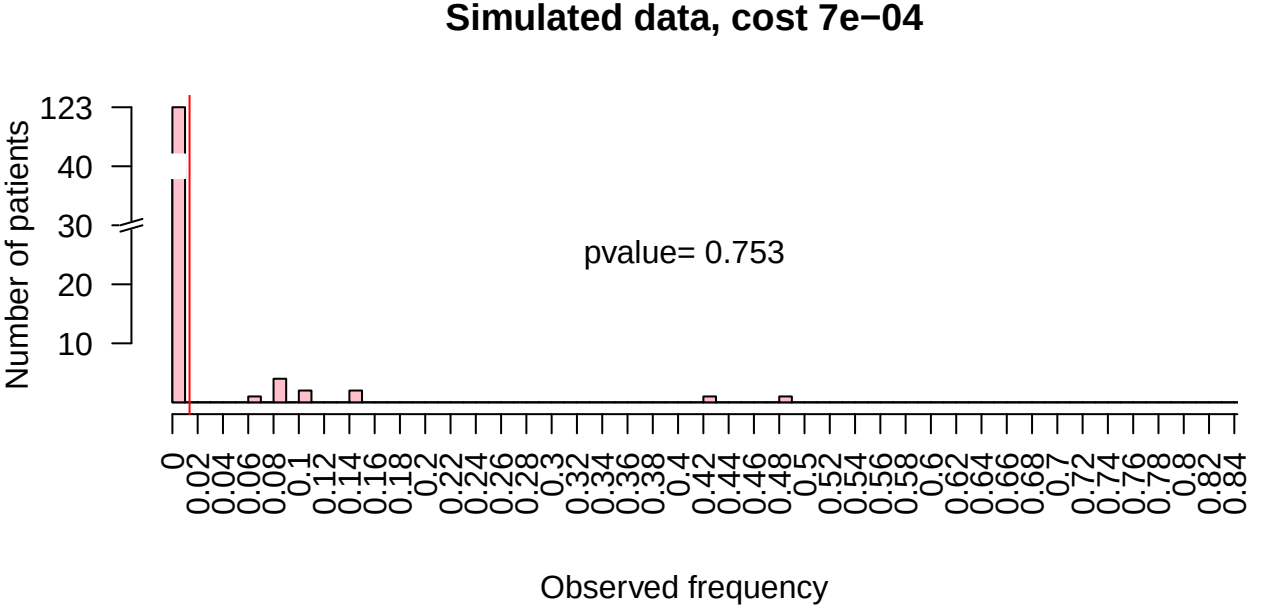

Single−SFS, site 685
Number of patients
143
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
Observed frequency

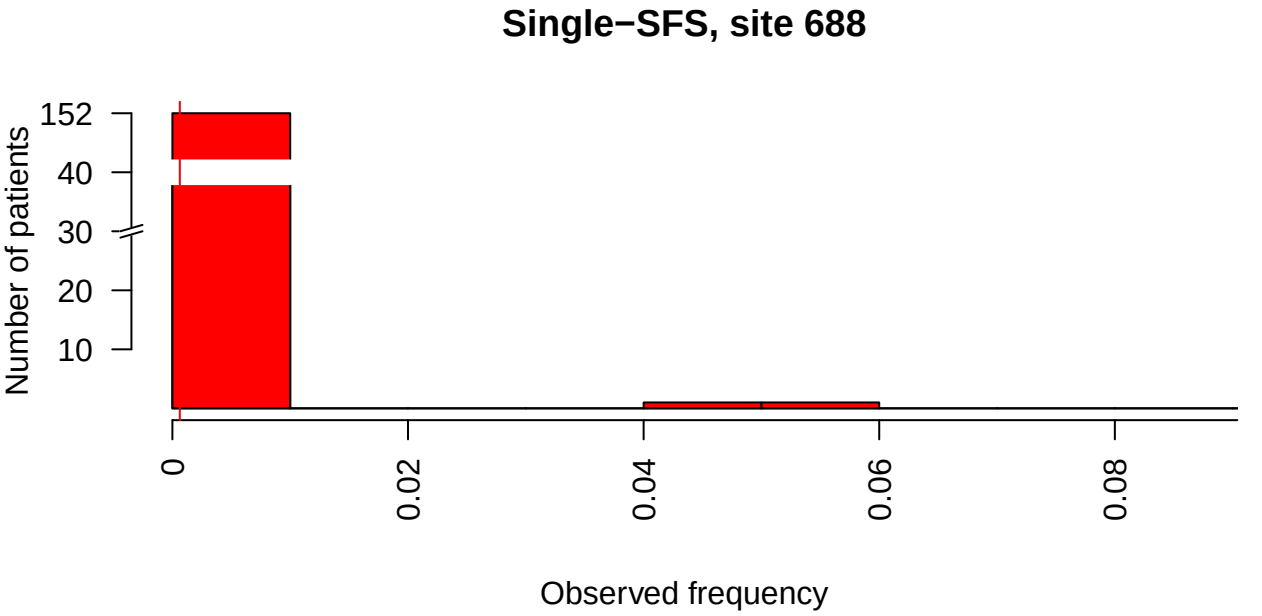

Simulated data, cost 0.0099
Number of patients
145
40
30
20
10
pvalue= 0.495
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
Observed frequency

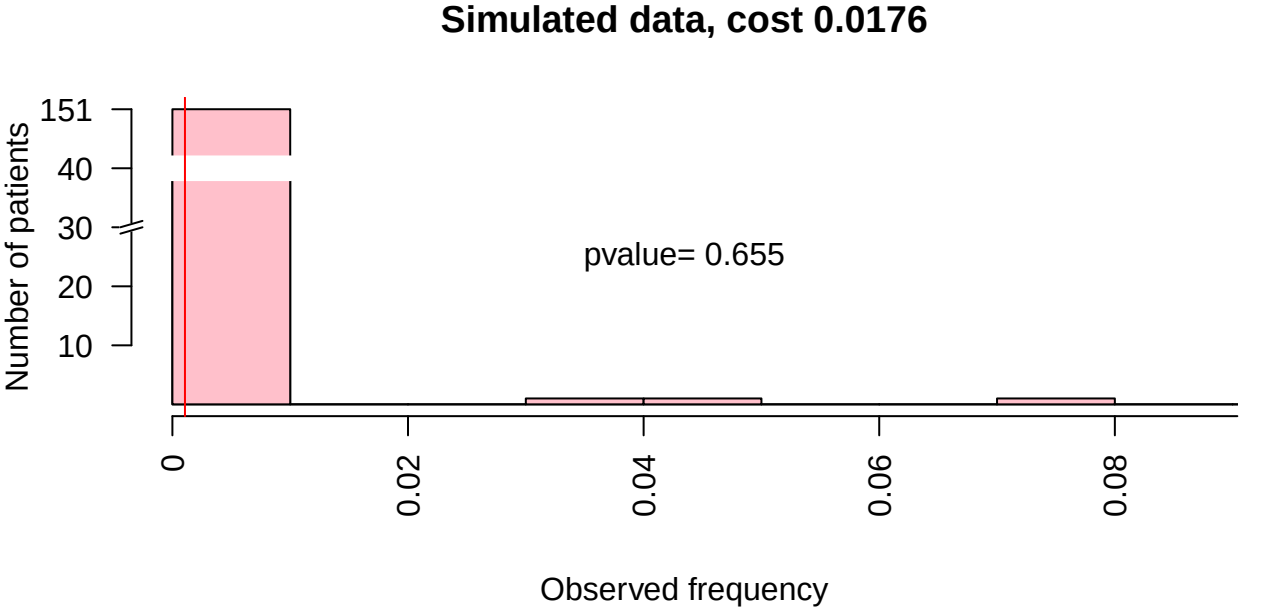

Single−SFS, site 686
Number of patients
147
40
30
20
10
0
0.02
0.04
0.06
0.08
Observed frequency

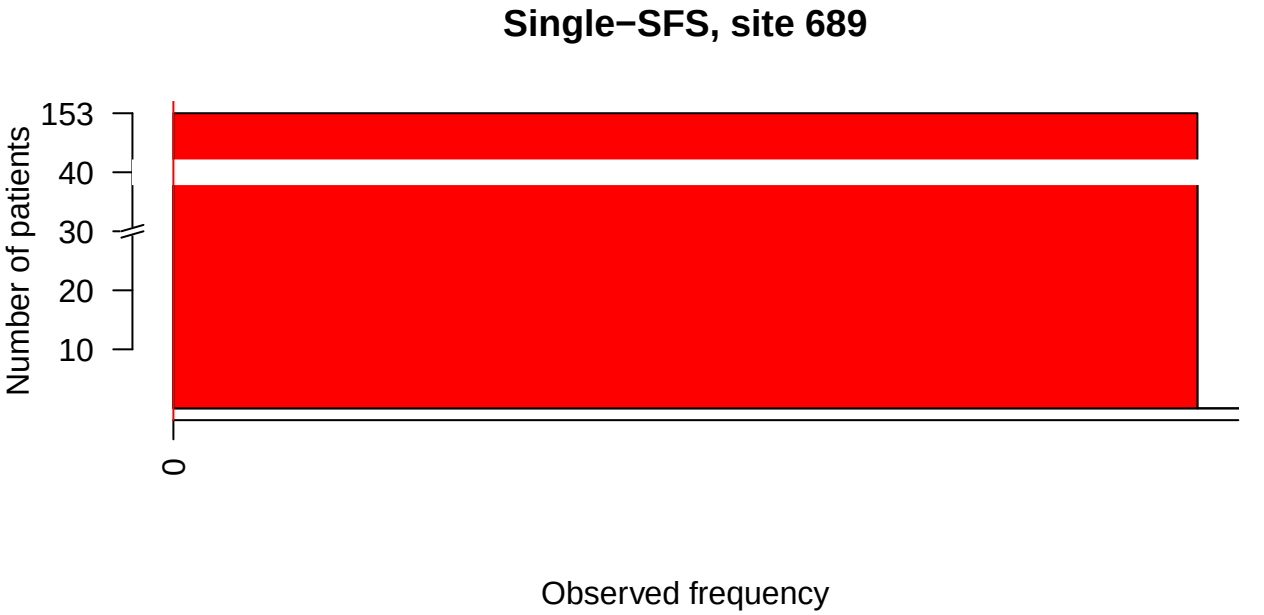

Simulated data, cost 0.0104
Number of patients
151
40
30
20
10
pvalue= 0.103
0
0.02
0.04
0.06
0.08
Observed frequency

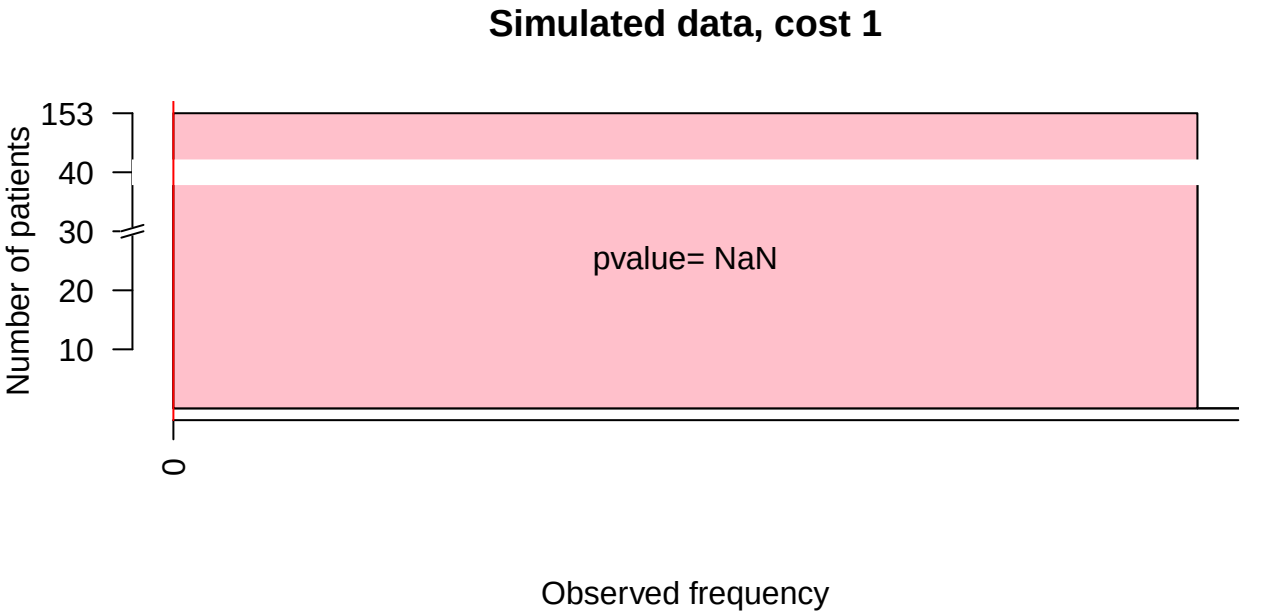

Single−SFS, site 687
Number of patients
121
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
0.24
0.26
0.28
0.3
0.32
0.34
0.36
0.38
0.4
0.42
0.44
0.46
0.48
0.5
0.52
0.54
0.56
0.58
0.6
0.62
0.64
0.66
0.68
0.7
0.72
0.74
0.76
0.78
0.8
0.82
0.84
Observed frequency

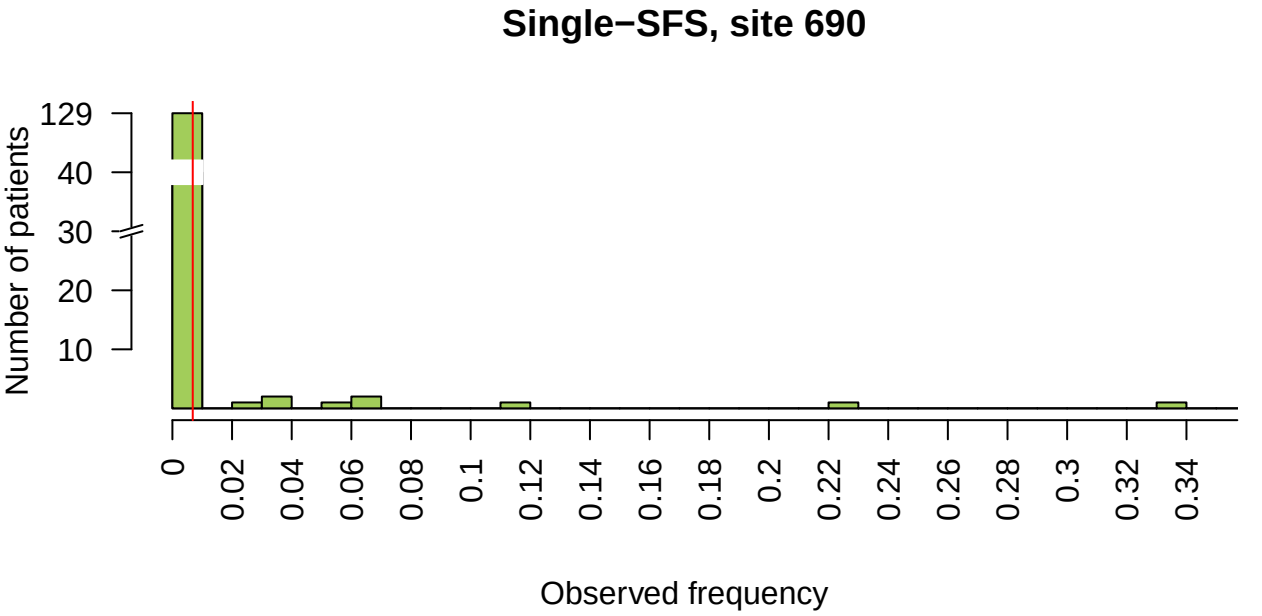

Simulated data, cost 7e−04
Number of patients
123
40
30
20
10
pvalue= 0.753
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
0.24
0.26
0.28
0.3
0.32
0.34
0.36
0.38
0.4
0.42
0.44
0.46
0.48
0.5
0.52
0.54
0.56
0.58
0.6
0.62
0.64
0.66
0.68
0.7
0.72
0.74
0.76
0.78
0.8
0.82
0.84
Observed frequency

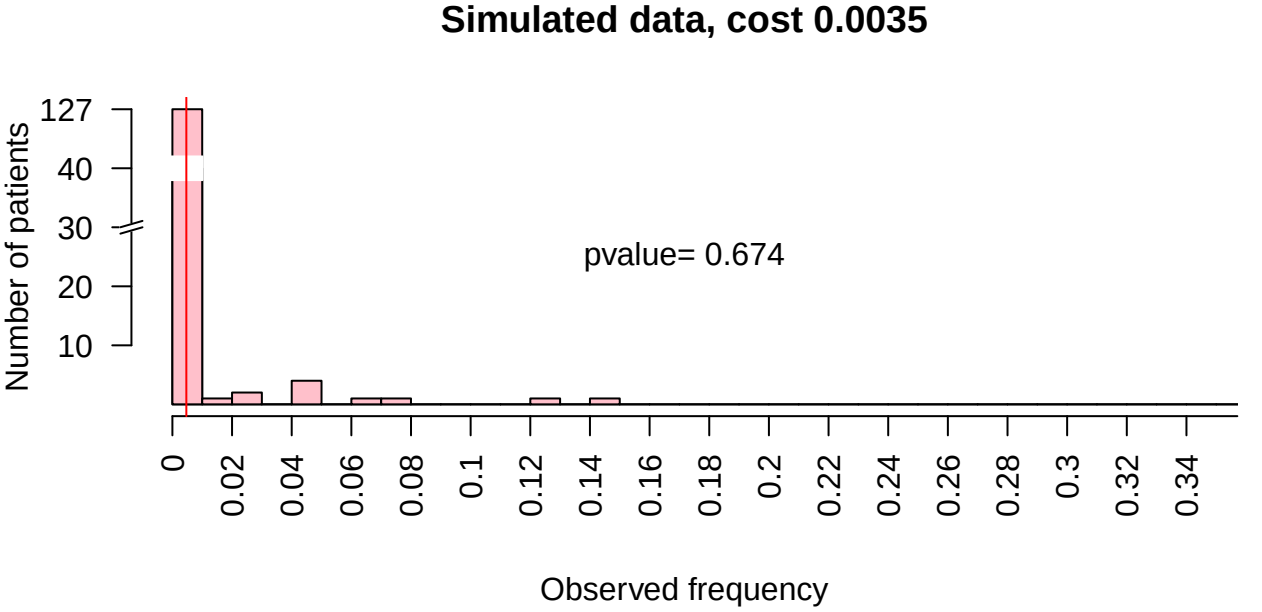

Single−SFS, site 688
Number of patients
152
40
30
20
10
0
0.02
0.04
0.06
0.08
Observed frequency

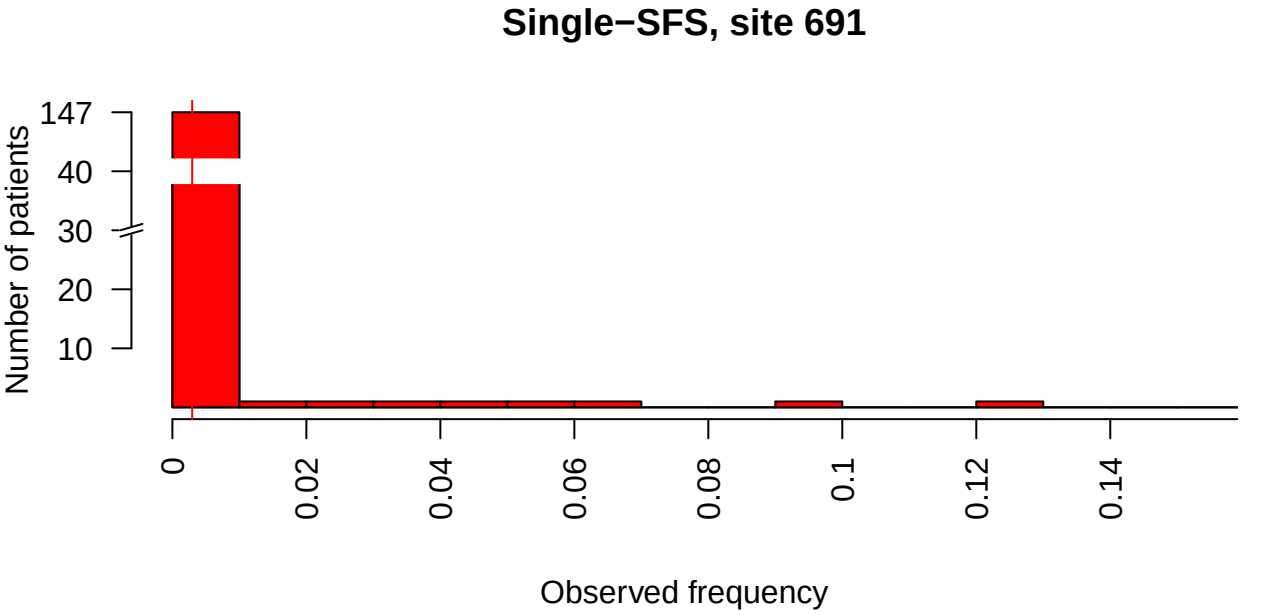

Simulated data, cost 0.0176
Number of patients
151
40
30
20
10
pvalue= 0.655
0
0.02
0.04
0.06
0.08
Observed frequency

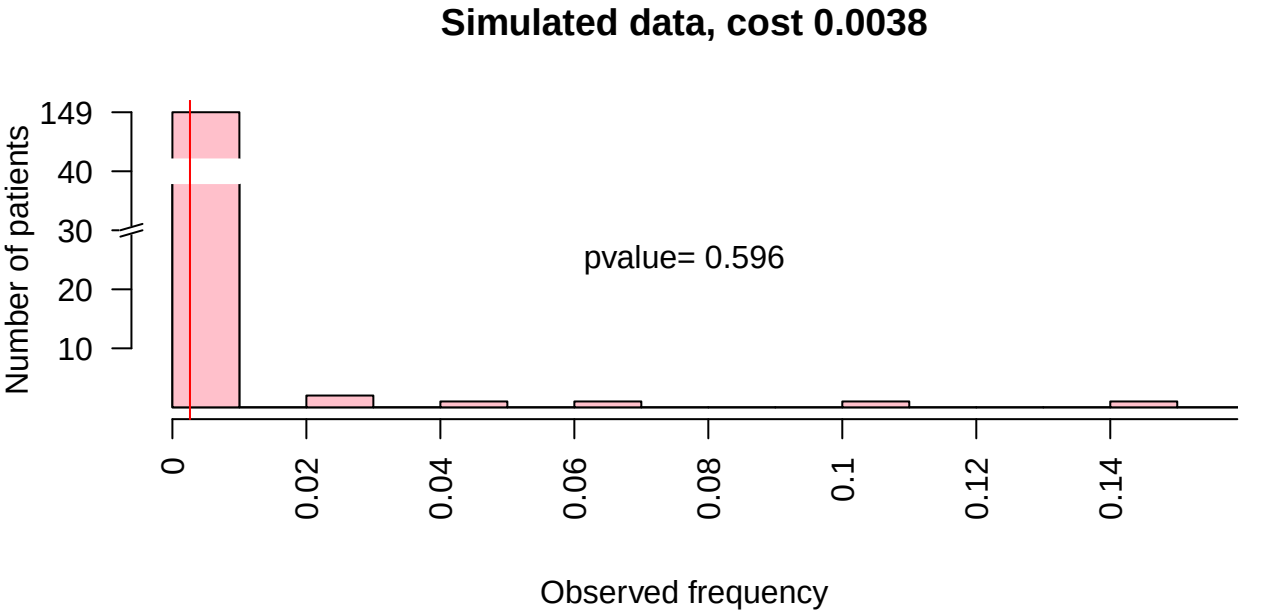

Single−SFS, site 689
Number of patients
153
40
30
20
10
0
Observed frequency

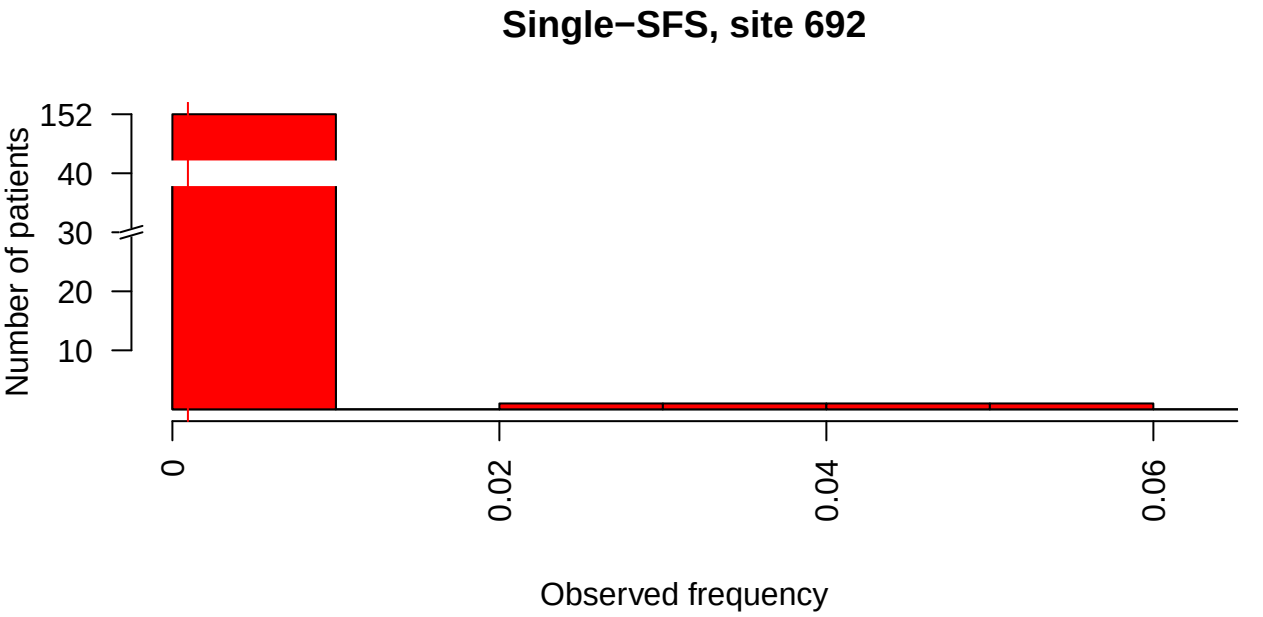

Simulated data, cost 1
Number of patients
153
40
30
20
10
0
pvalue= NaN
Observed frequency

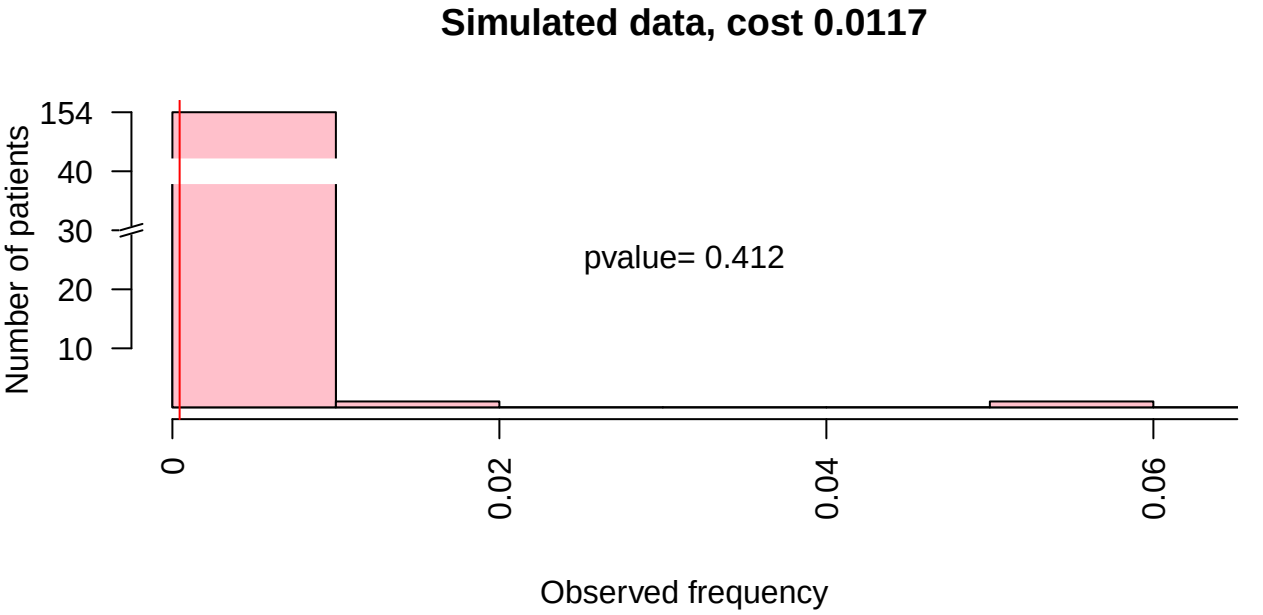

Single−SFS, site 690
Number of patients
129
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
0.24
0.26
0.28
0.3
0.32
0.34
Observed frequency

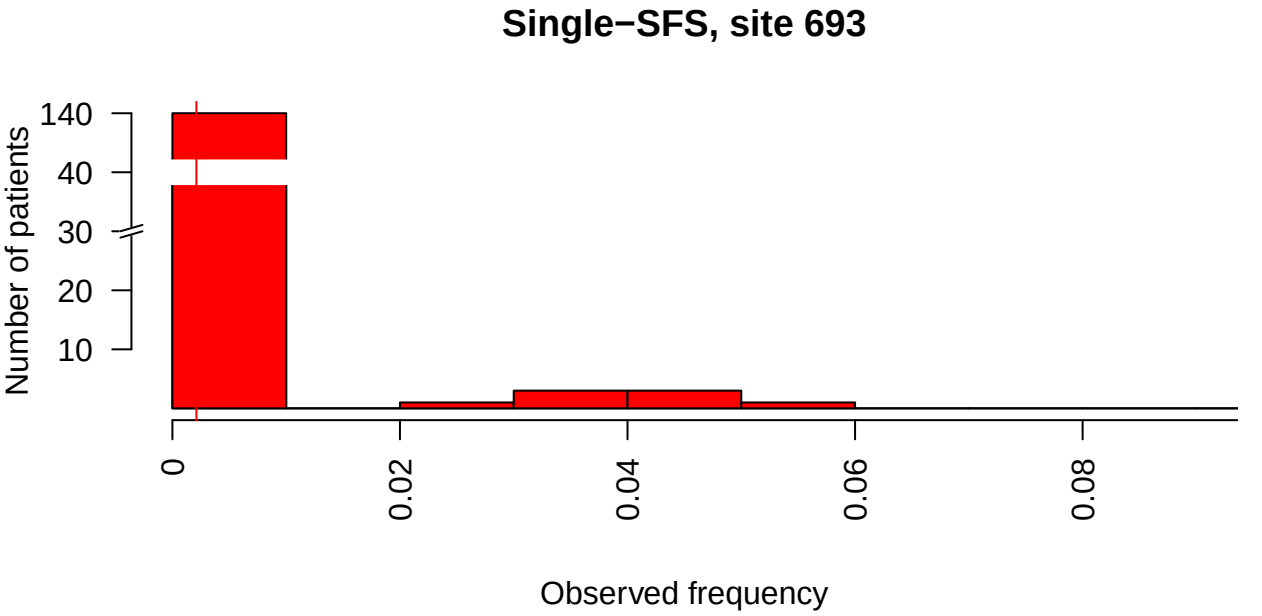

Simulated data, cost 0.0035
Number of patients
127
40
30
20
10
pvalue= 0.674
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
0.24
0.26
0.28
0.3
0.32
0.34
Observed frequency

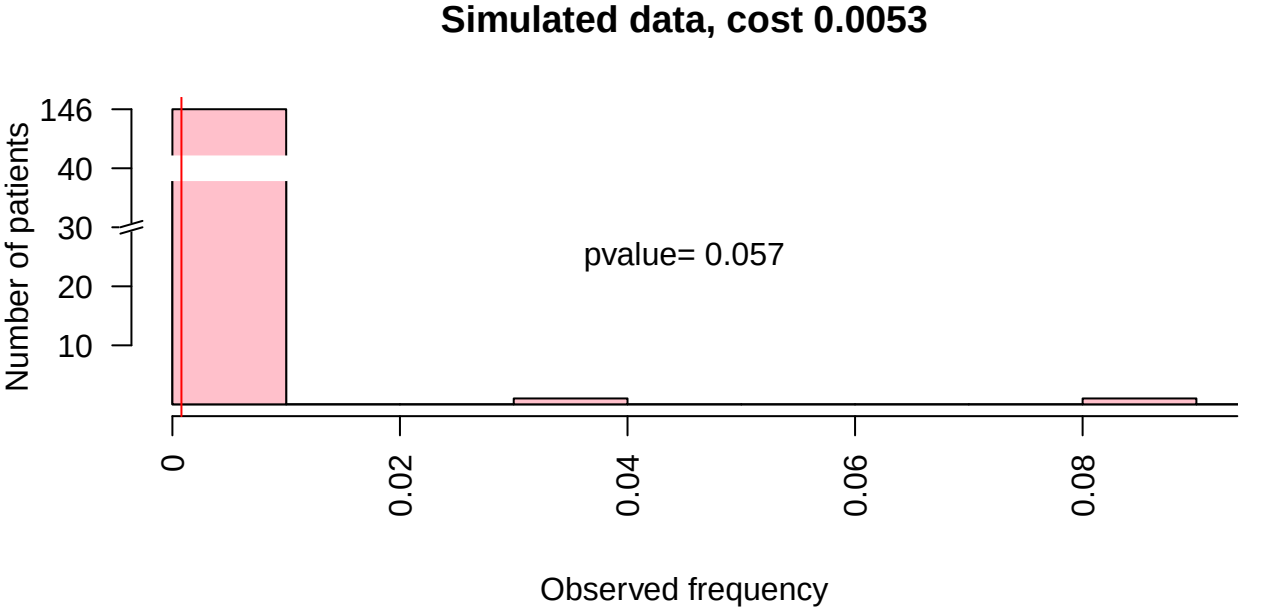

Single−SFS, site 691
Number of patients
147
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
Observed frequency

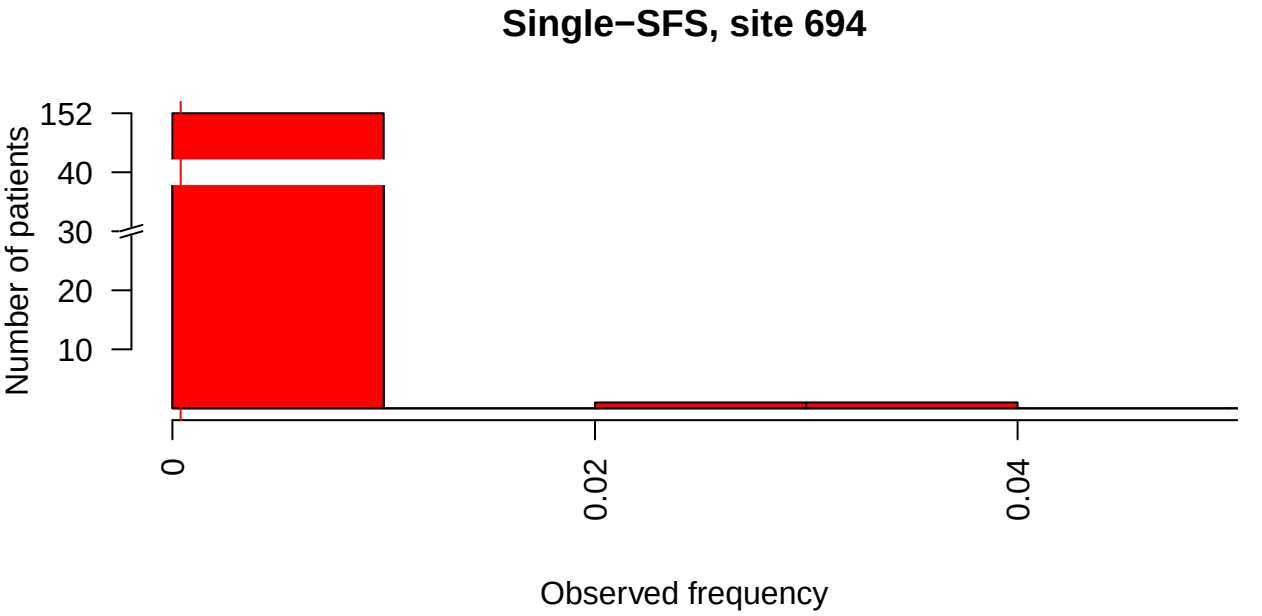

Simulated data, cost 0.0038
Number of patients
149
40
30
20
10
pvalue= 0.596
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
Observed frequency

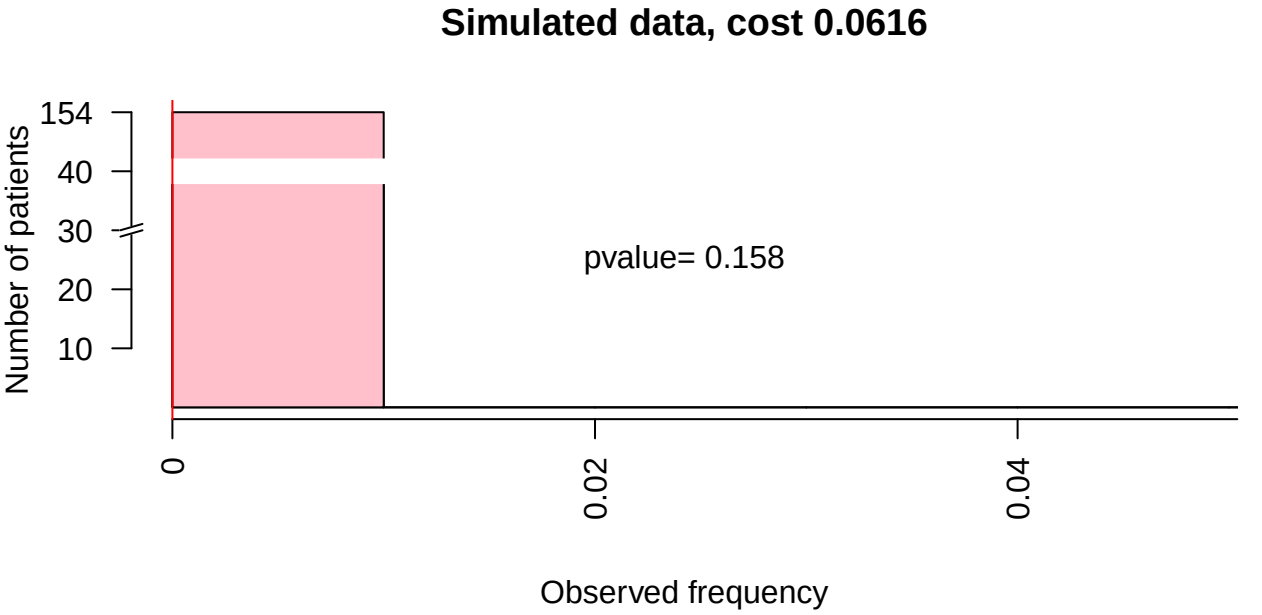

Single−SFS, site 692
Number of patients
152
40
30
20
10
0
0.02
0.04
0.06
Observed frequency

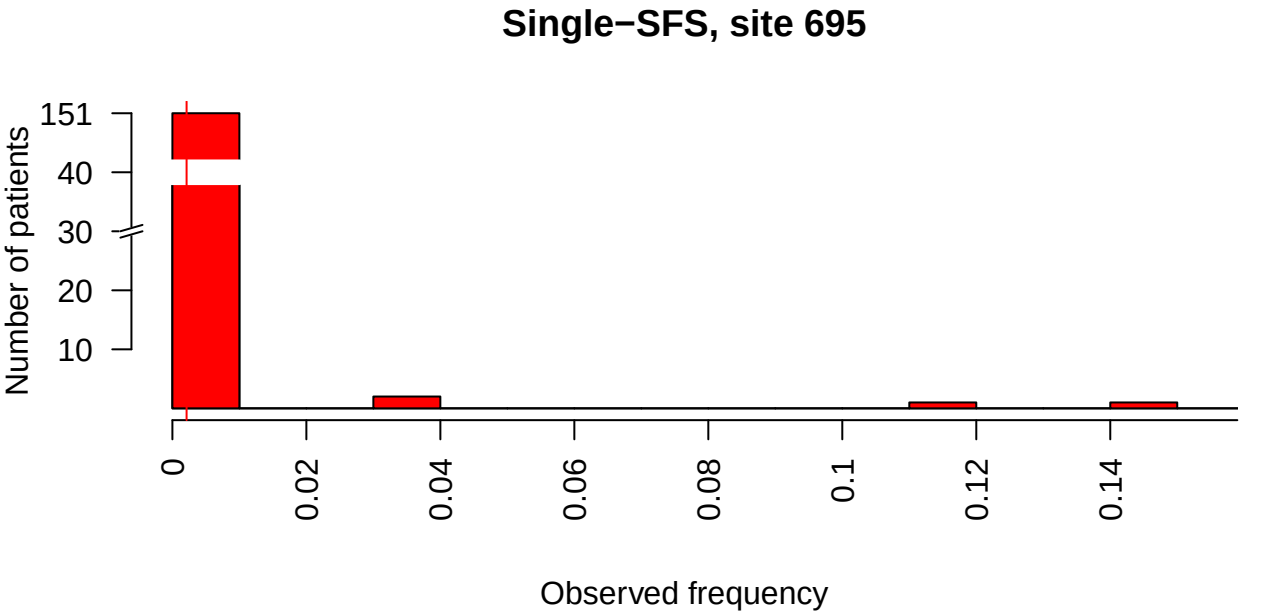

Simulated data, cost 0.0117
Number of patients
154
40
30
20
10
pvalue= 0.412
0
0.02
0.04
0.06
Observed frequency

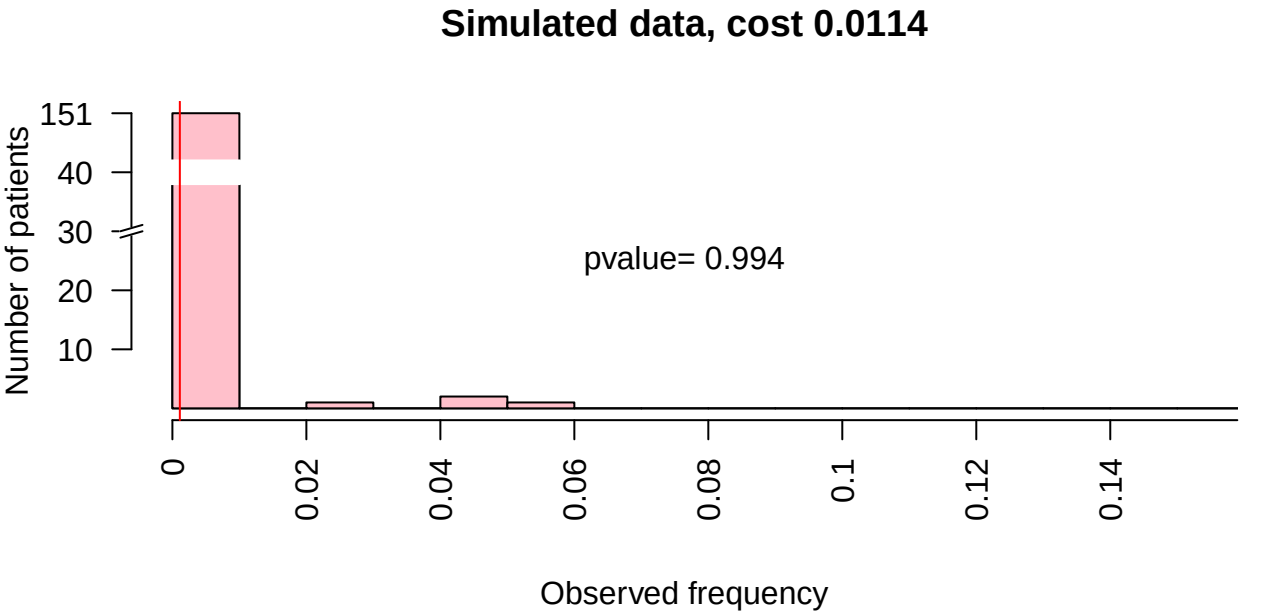

Single−SFS, site 693
Number of patients
140
40
30
20
10
0
0.02
0.04
0.06
0.08
Observed frequency

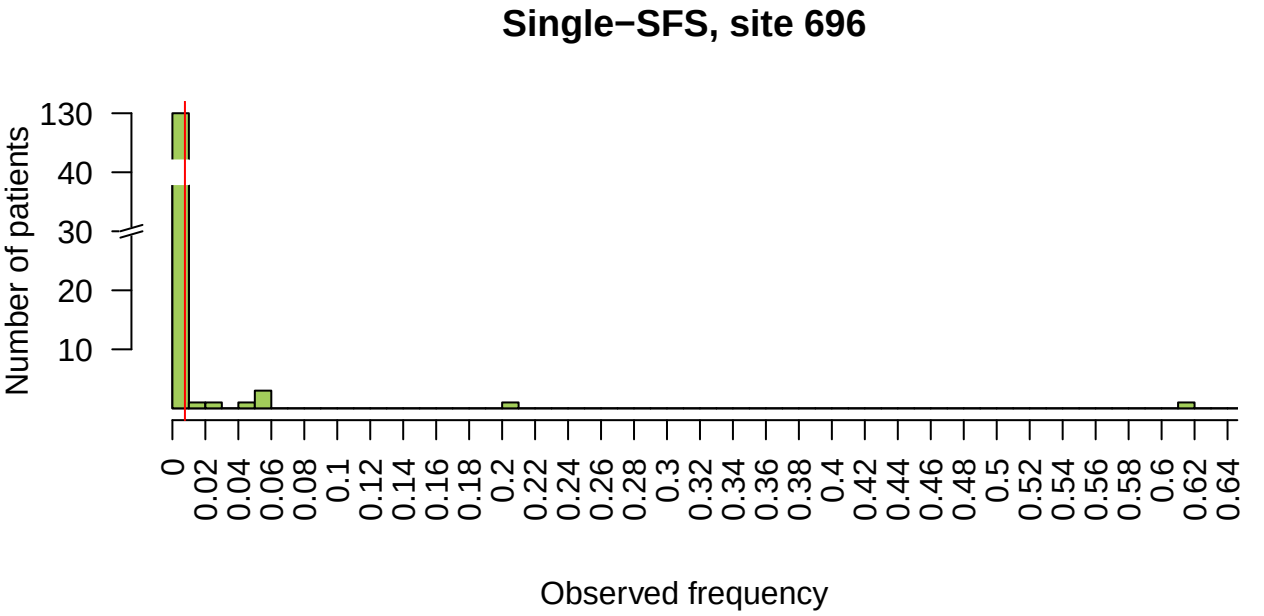

Simulated data, cost 0.0053
Number of patients
146
40
30
20
10
pvalue= 0.057
0
0.02
0.04
0.06
0.08
Observed frequency

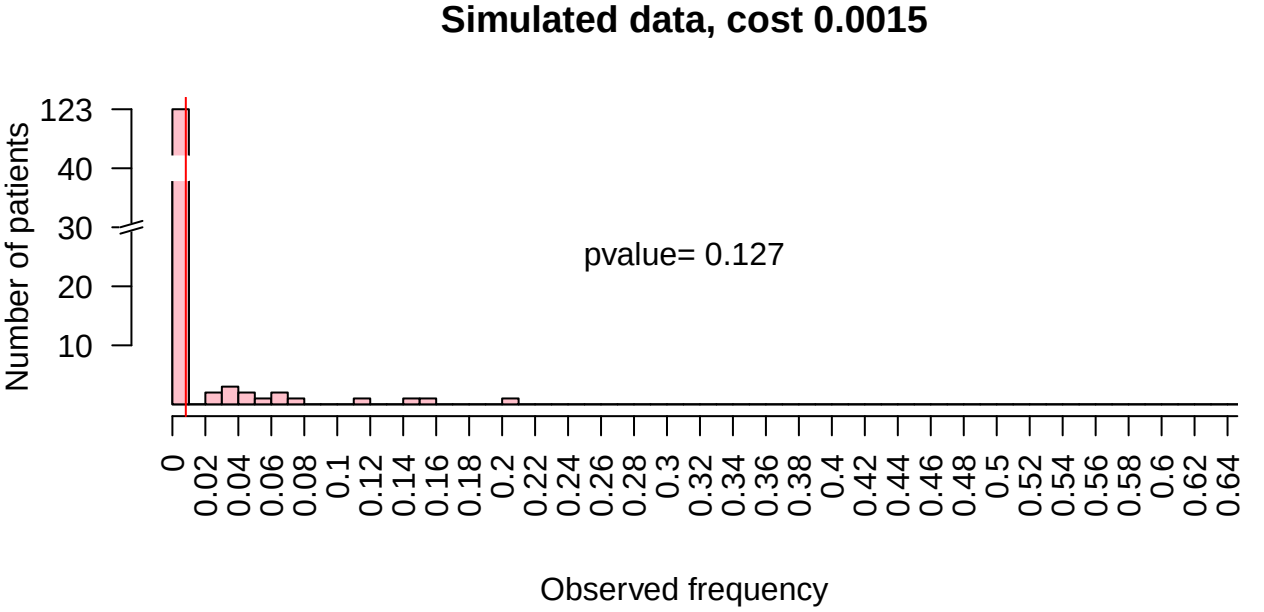

Single−SFS, site 694
Number of patients
152
40
30
20
10
0
0.02
0.04
Observed frequency

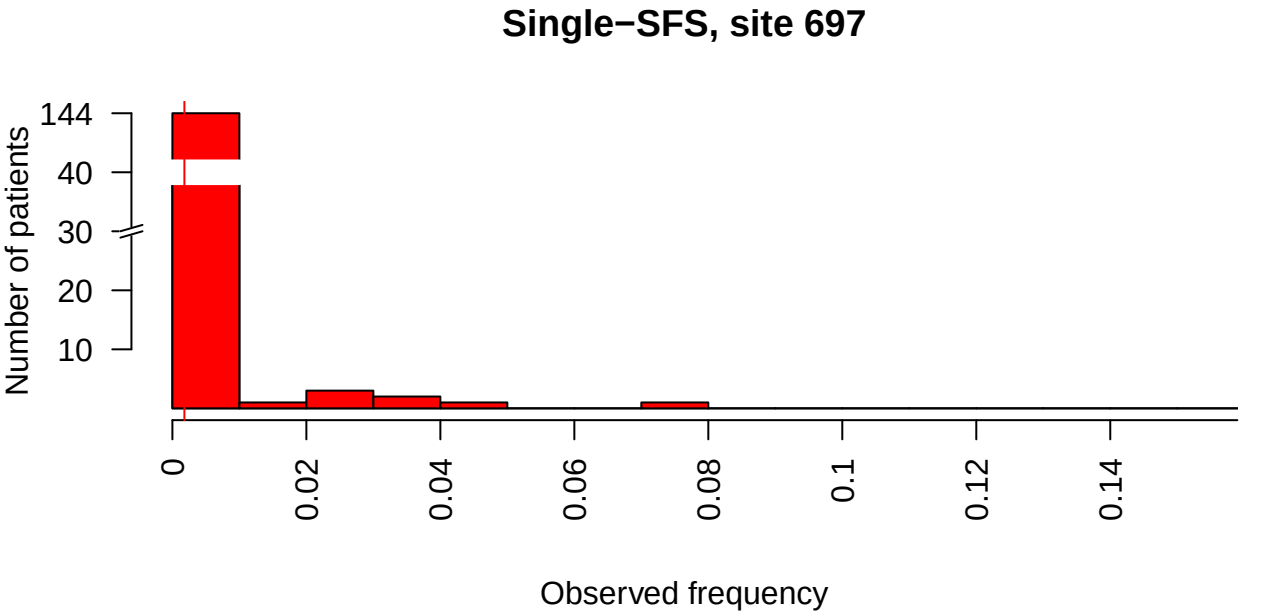

Simulated data, cost 0.0616
Number of patients
154
40
30
20
10
pvalue= 0.158
0
0.02
0.04
Observed frequency

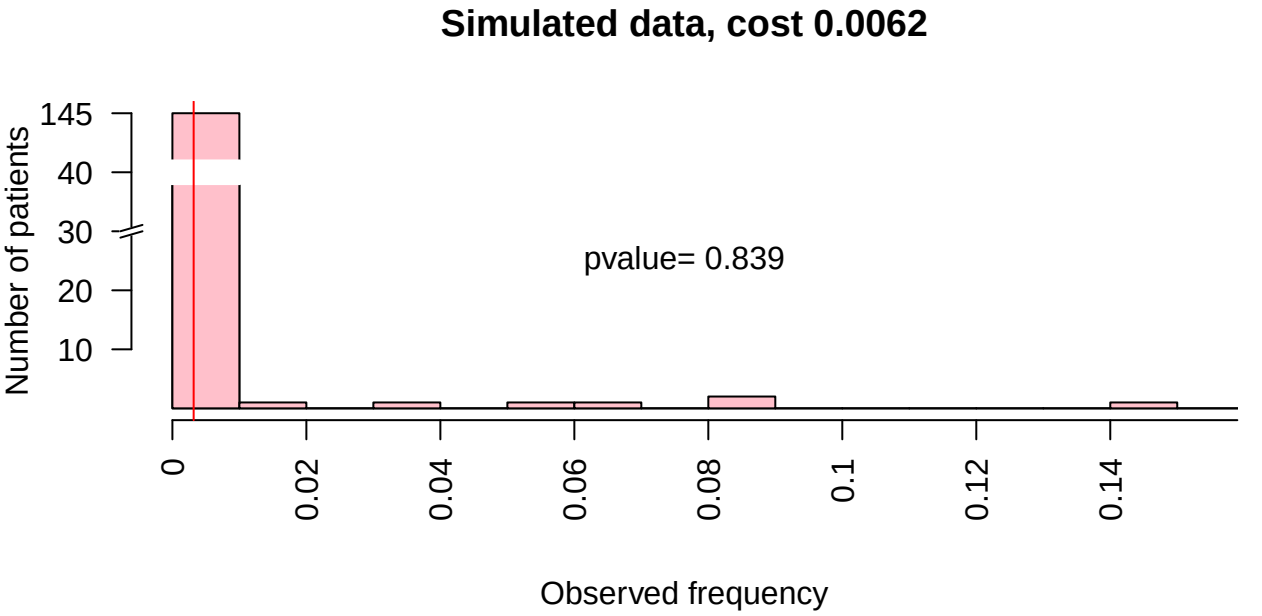

Single−SFS, site 695
Number of patients
151
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
Observed frequency

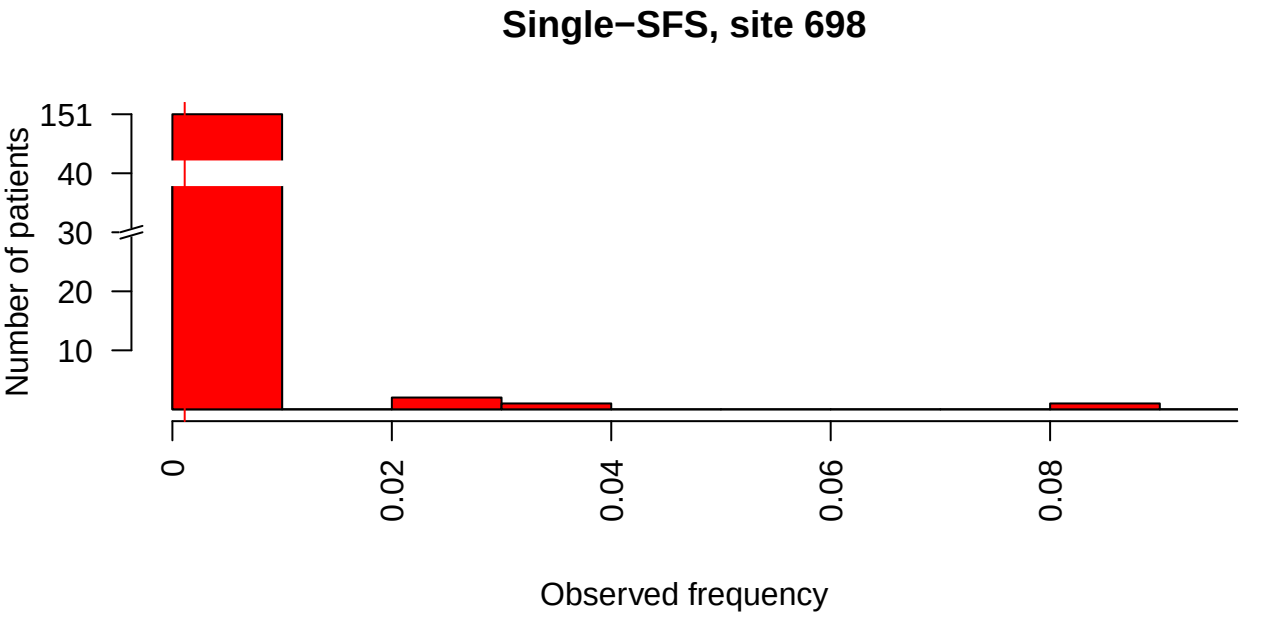

Simulated data, cost 0.0114
Number of patients
151
40
30
20
10
pvalue= 0.994
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
Observed frequency

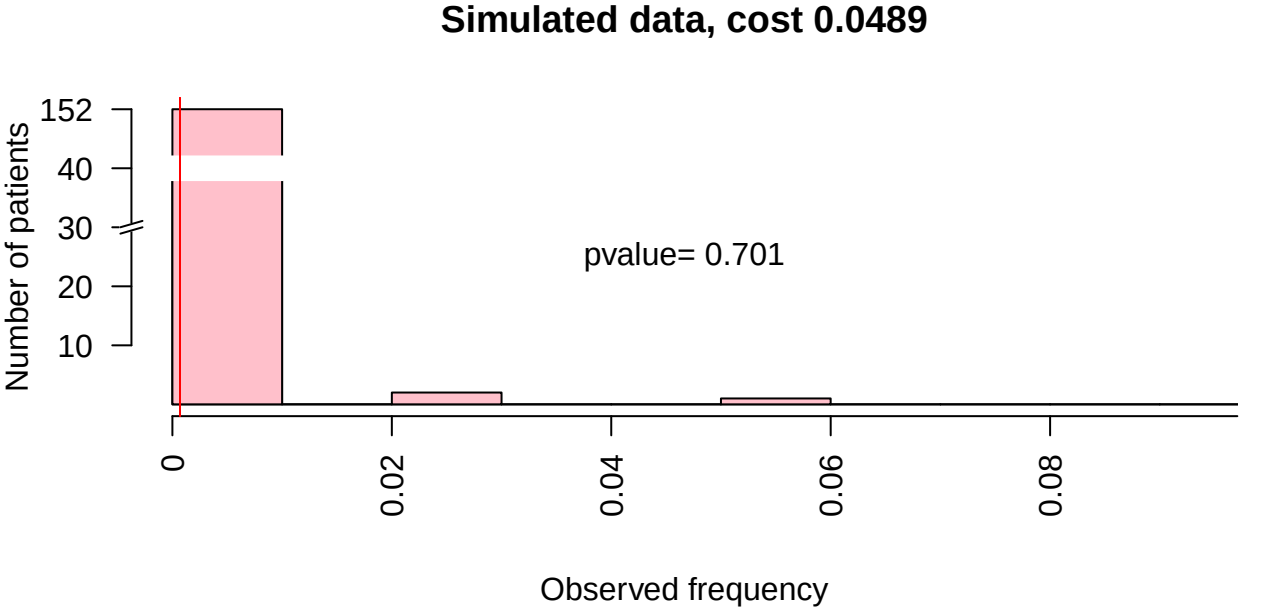

Single−SFS, site 696
Number of patients
130
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
0.24
0.26
0.28
0.3
0.32
0.34
0.36
0.38
0.4
0.42
0.44
0.46
0.48
0.5
0.52
0.54
0.56
0.58
0.6
0.62
0.64
Observed frequency

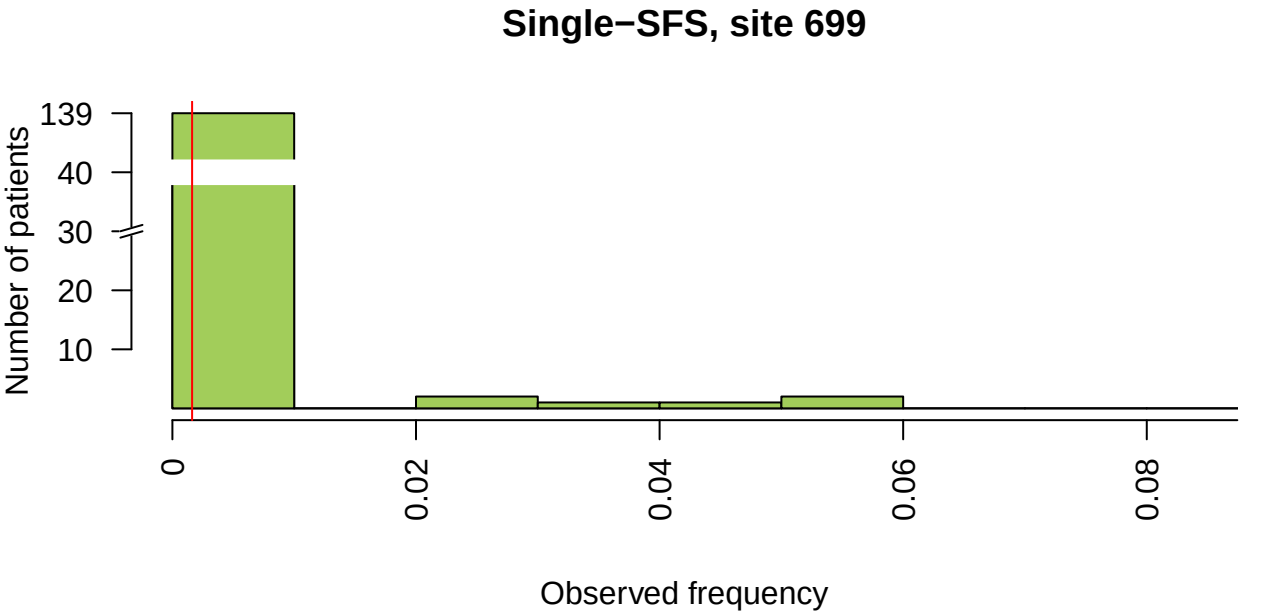

Simulated data, cost 0.0015
Number of patients
123
40
30
20
10
pvalue= 0.127
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
0.24
0.26
0.28
0.3
0.32
0.34
0.36
0.38
0.4
0.42
0.44
0.46
0.48
0.5
0.52
0.54
0.56
0.58
0.6
0.62
0.64
Observed frequency

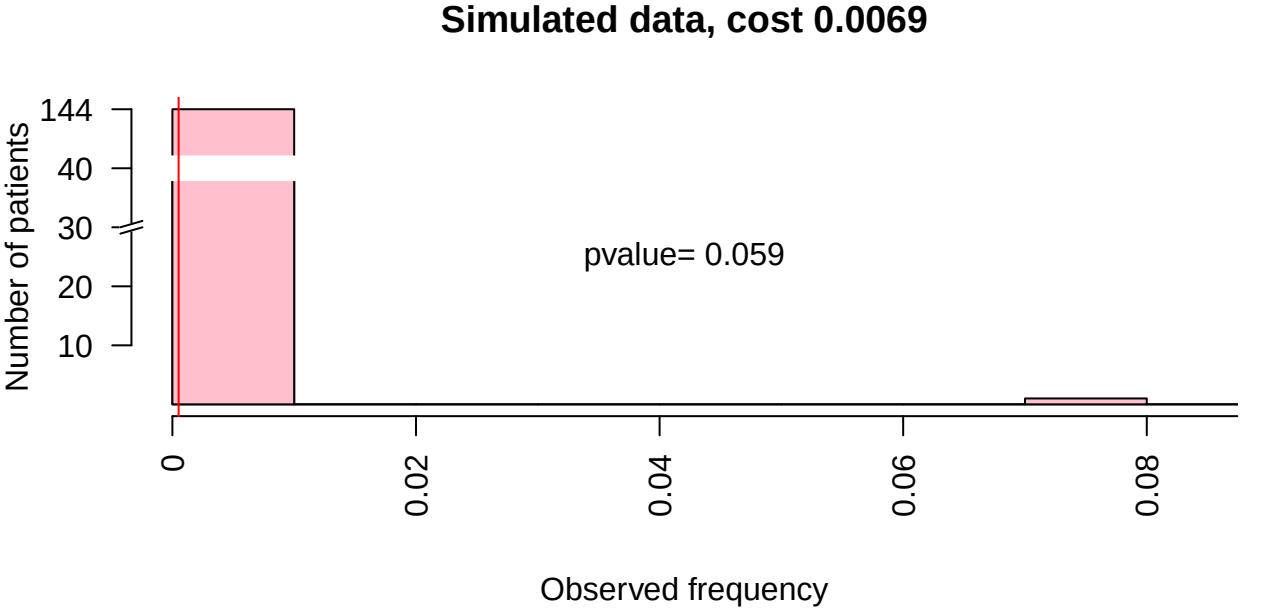

Single−SFS, site 697
Number of patients
144
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
Observed frequency

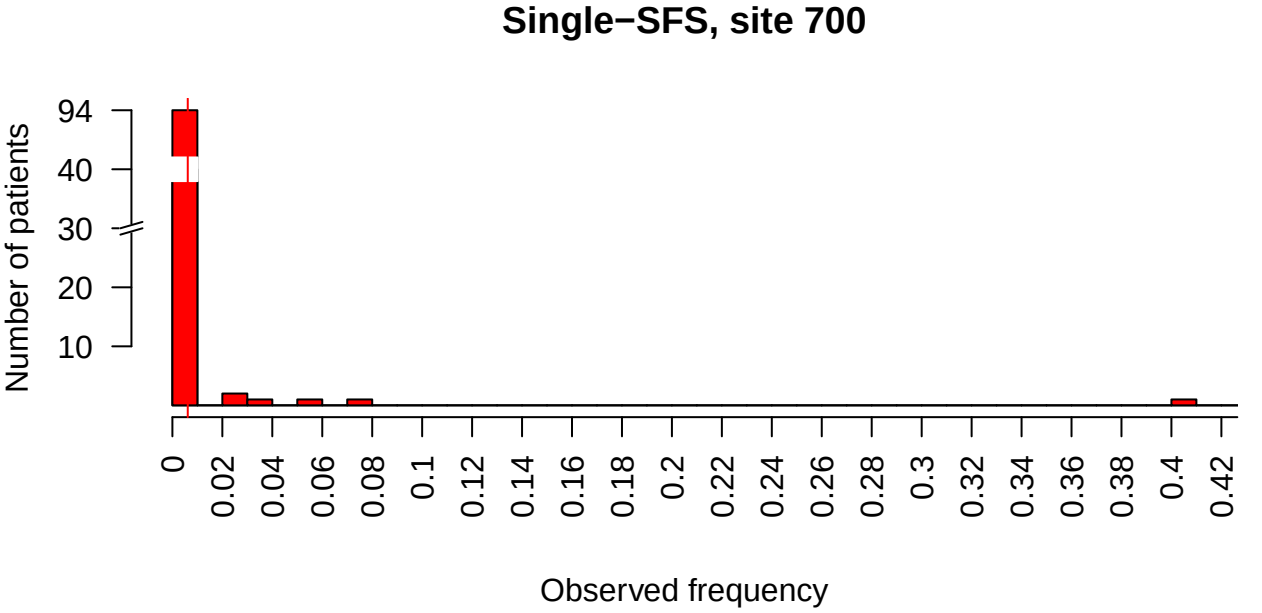

Simulated data, cost 0.0062
Number of patients
145
40
30
20
10
pvalue= 0.839
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
Observed frequency

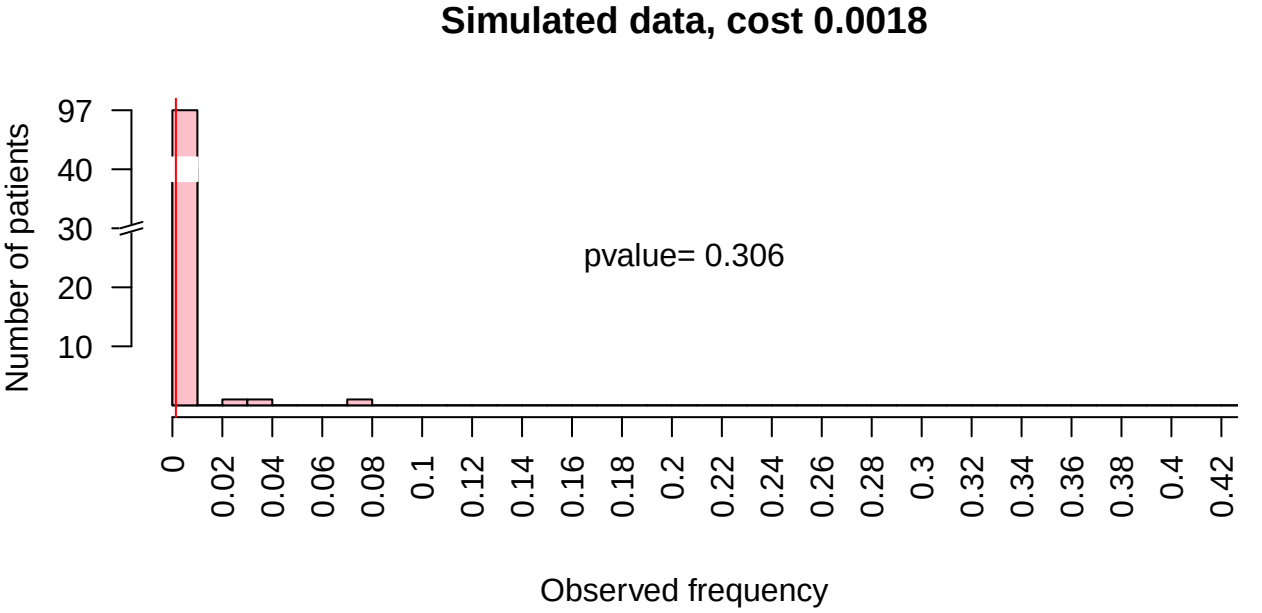

Single−SFS, site 698
Number of patients
151
40
30
20
10
0
0.02
0.04
0.06
0.08
Observed frequency

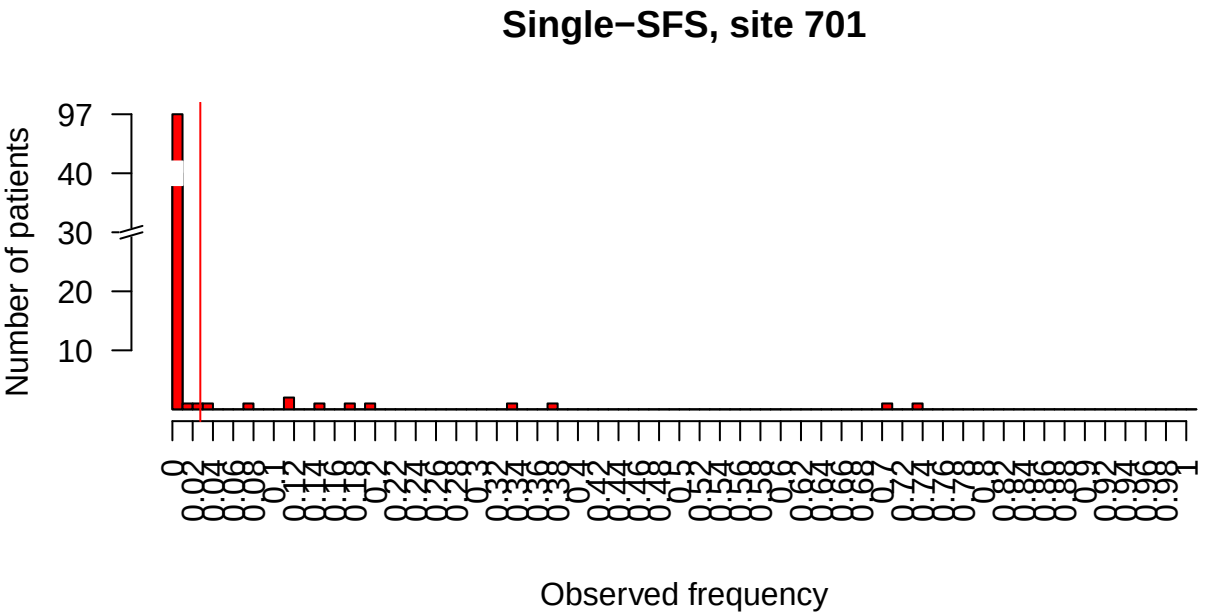

Simulated data, cost 0.0489
Number of patients
152
40
30
20
10
pvalue= 0.701
0
0.02
0.04
0.06
0.08
Observed frequency

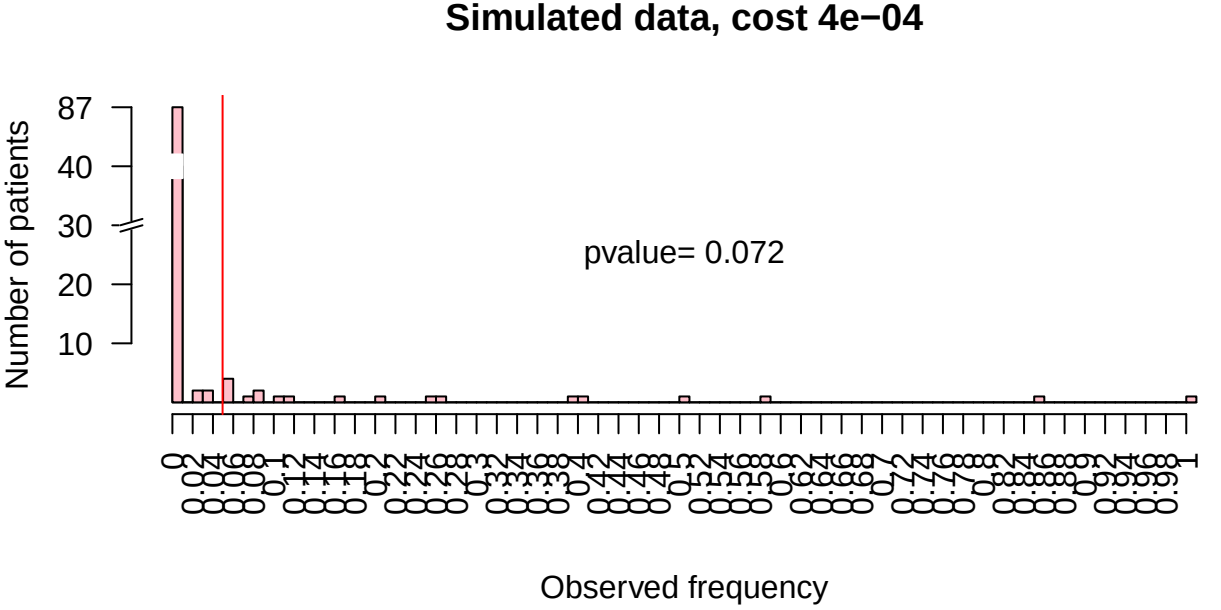

Single−SFS, site 699
Number of patients
139
40
30
20
10
0
0.02
0.04
0.06
0.08
Observed frequency

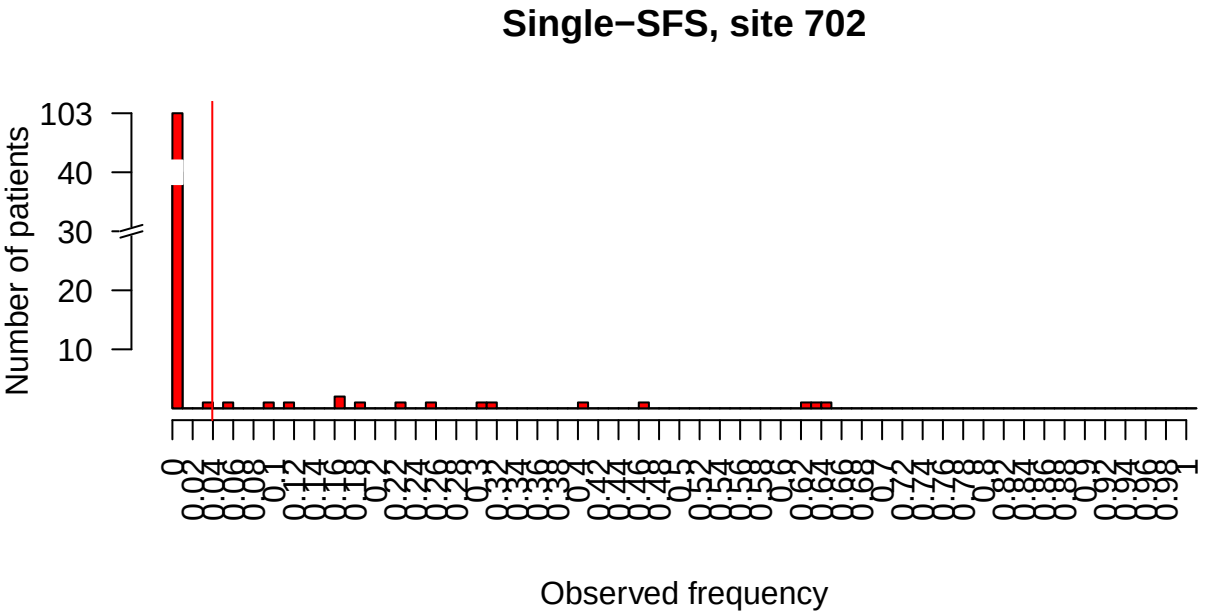

Simulated data, cost 0.0069
Number of patients
144
40
30
20
10
pvalue= 0.059
0
0.02
0.04
0.06
0.08
Observed frequency

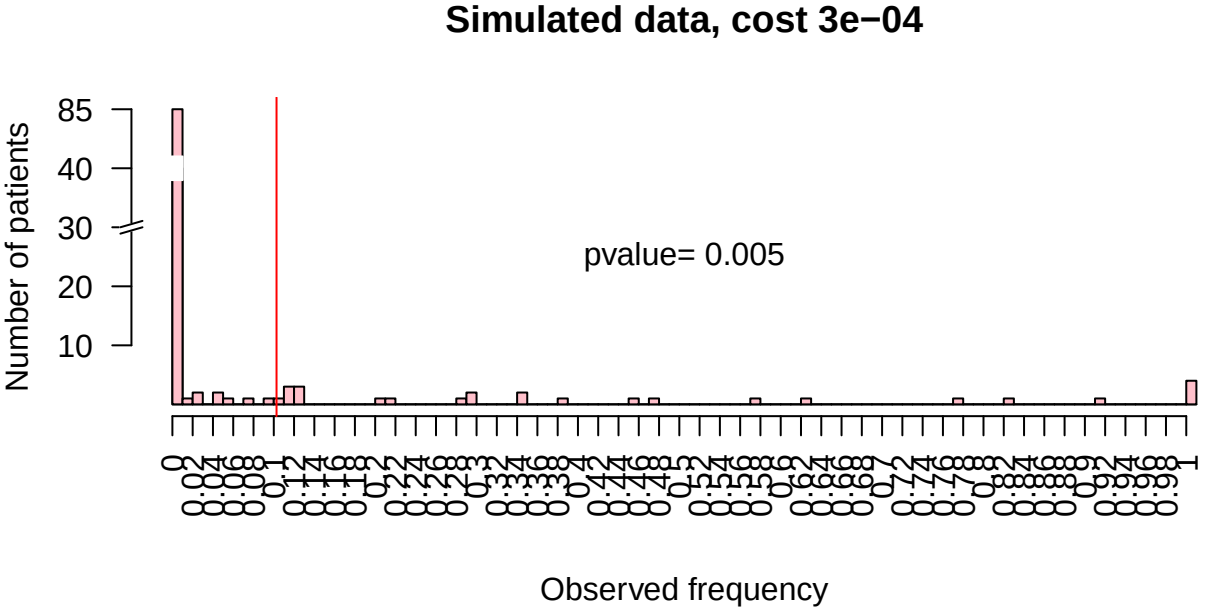

Single−SFS, site 700
Number of patients
94
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
0.24
0.26
0.28
0.3
0.32
0.34
0.36
0.38
0.4
0.42
Observed frequency

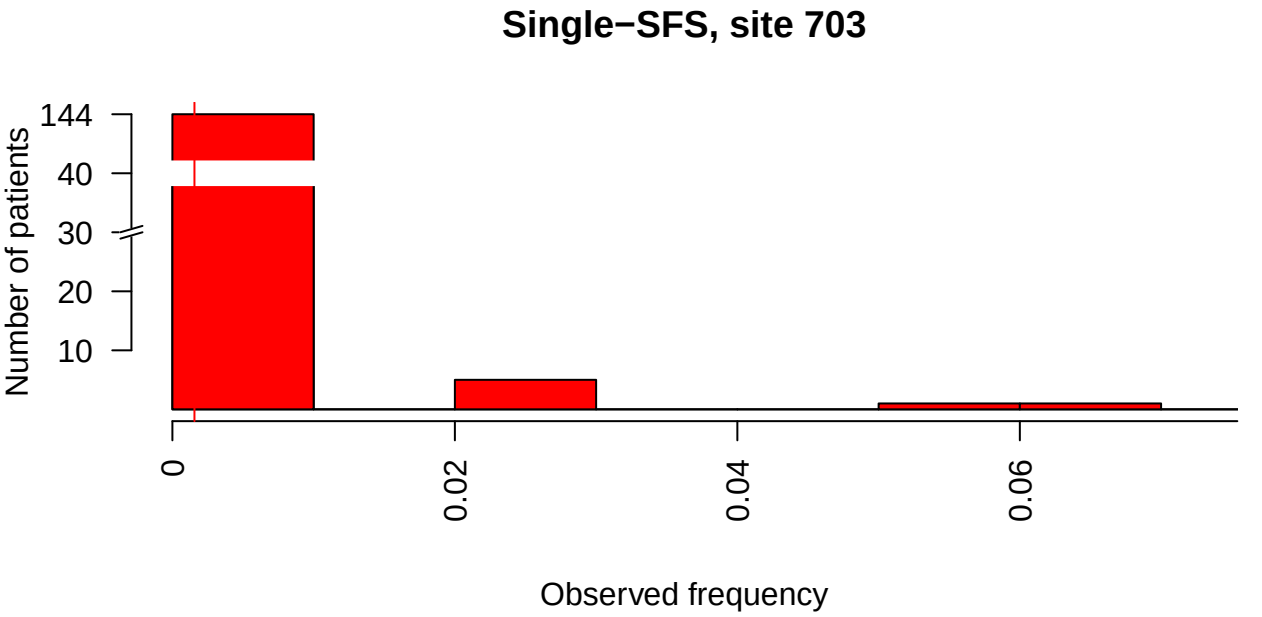

Simulated data, cost 0.0018
Number of patients
97
40
30
20
10
pvalue= 0.306
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
0.24
0.26
0.28
0.3
0.32
0.34
0.36
0.38
0.4
0.42
Observed frequency

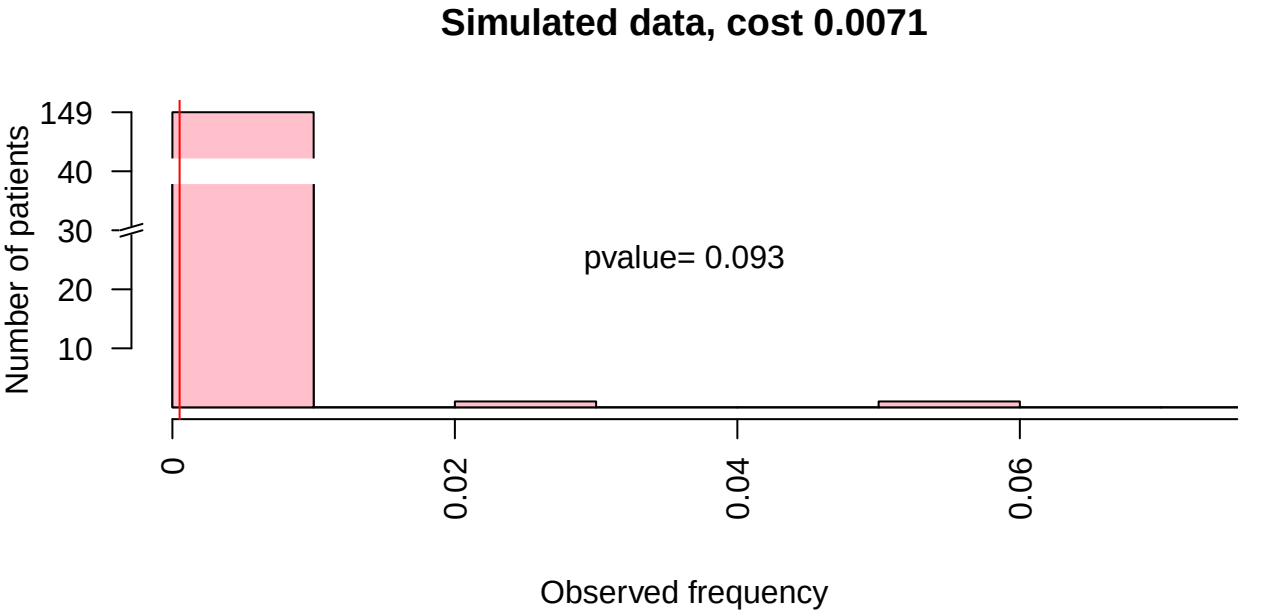

Single−SFS, site 701
Number of patients
97
40
30
20
10
Observed frequency

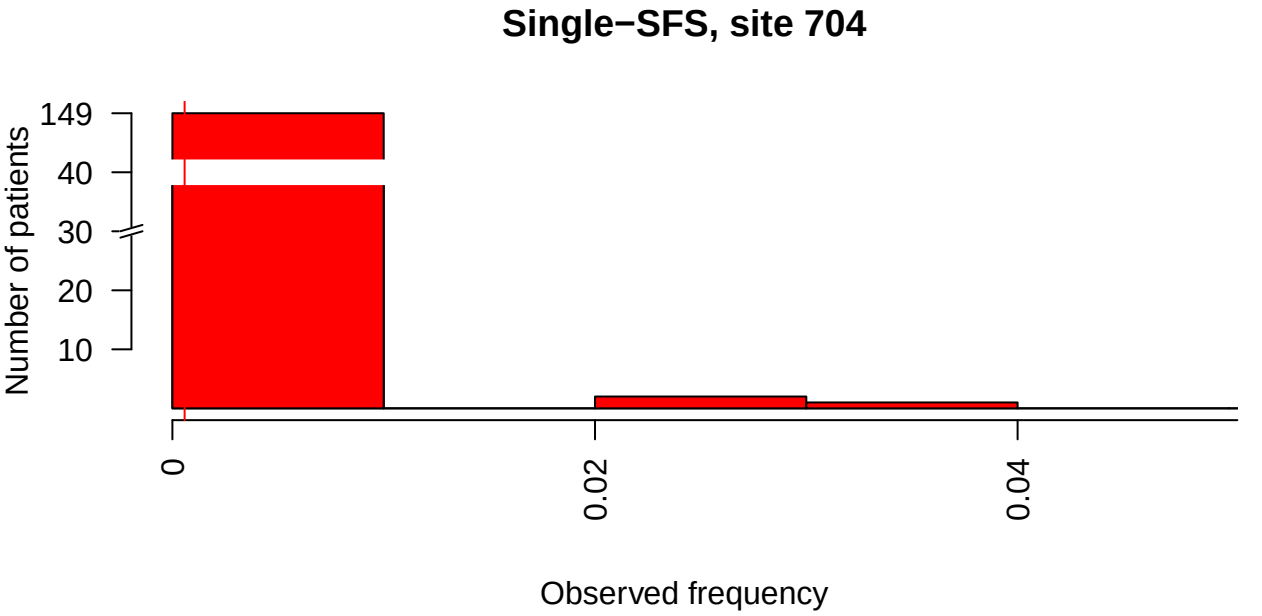

Simulated data, cost 4e−04
Number of patients
87
40
30
20
10
pvalue= 0.072
Observed frequency

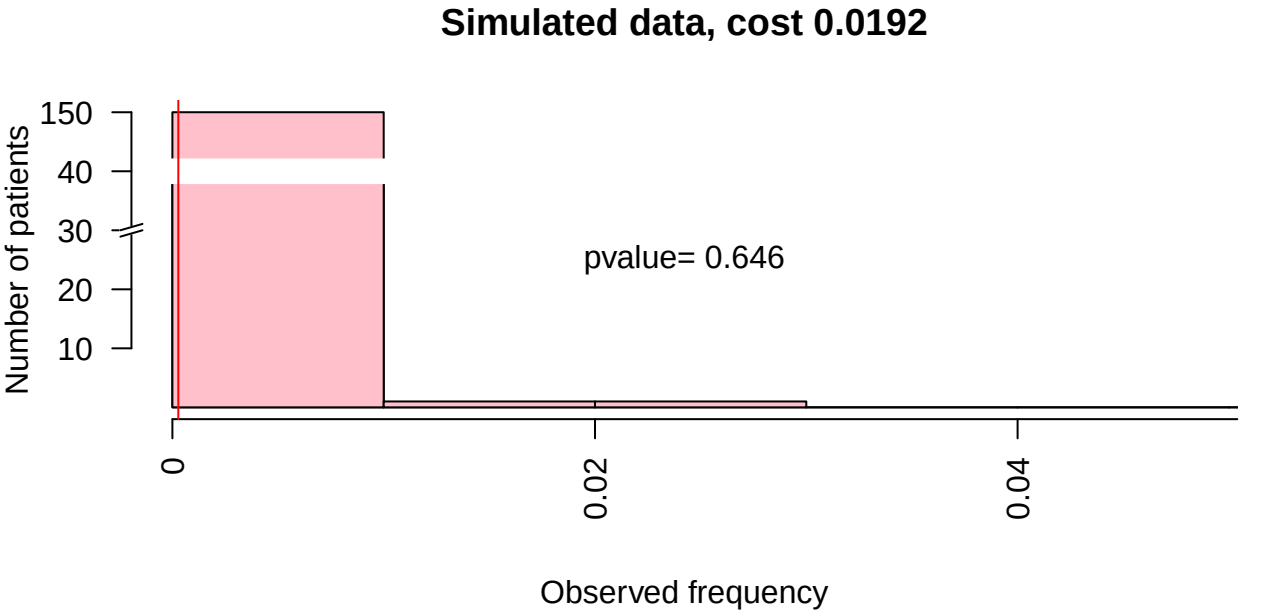

Single−SFS, site 702
Number of patients
103
40
30
20
10
Observed frequency

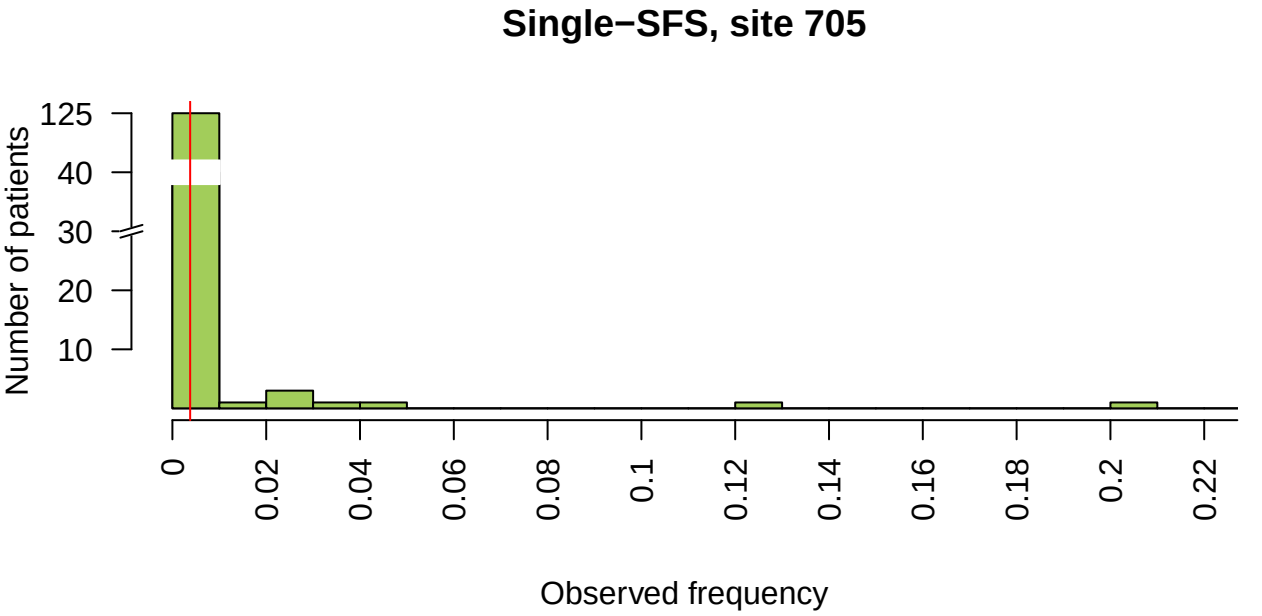

Simulated data, cost 3e−04
Number of patients
85
40
30
20
10
pvalue= 0.005
Observed frequency

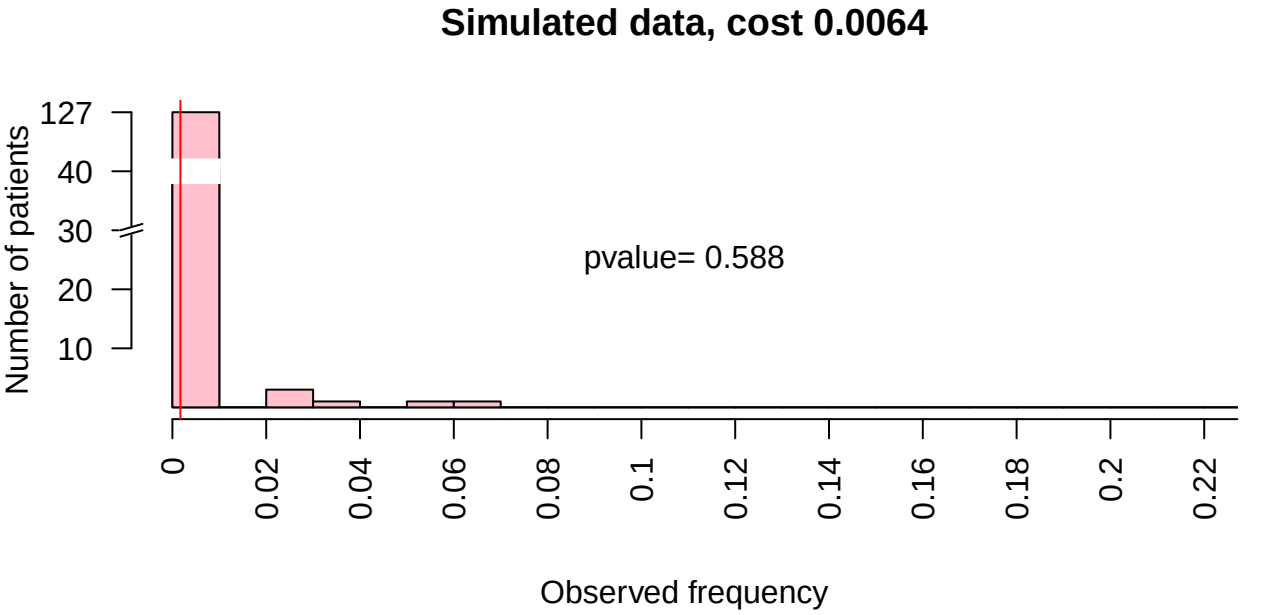

Single−SFS, site 703
Number of patients
144
40
30
20
10
0
0.02
0.04
0.06
Observed frequency

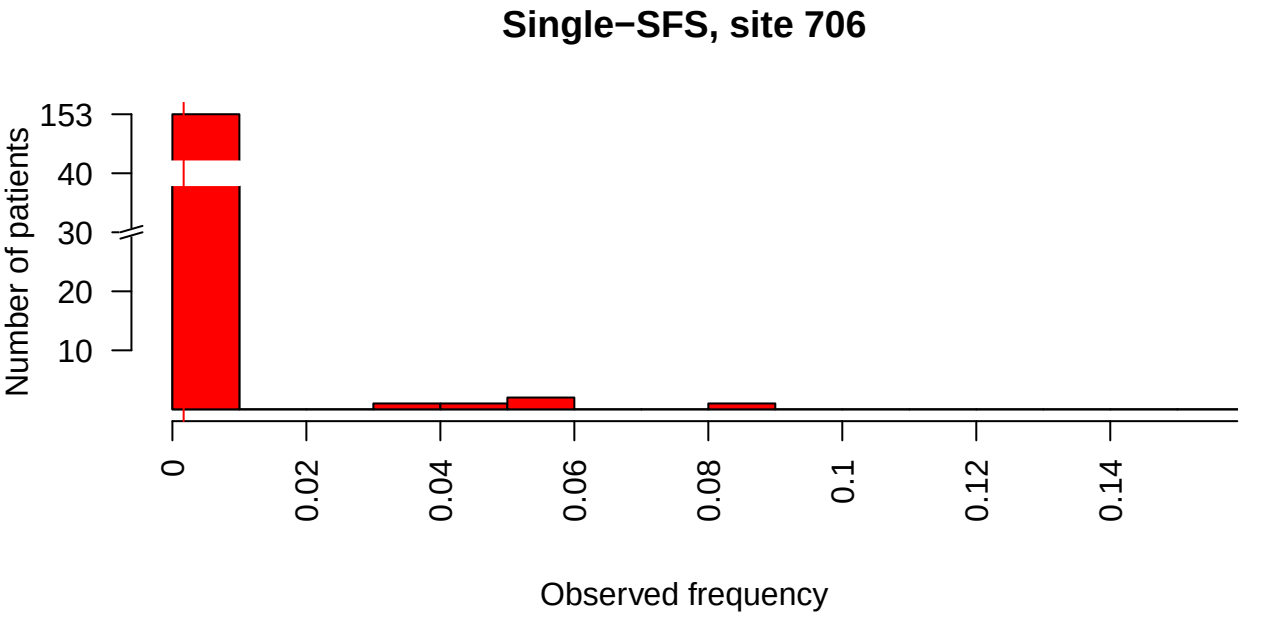

Simulated data, cost 0.0071
Number of patients
149
40
30
20
10
pvalue= 0.093
0
0.02
0.04
0.06
Observed frequency

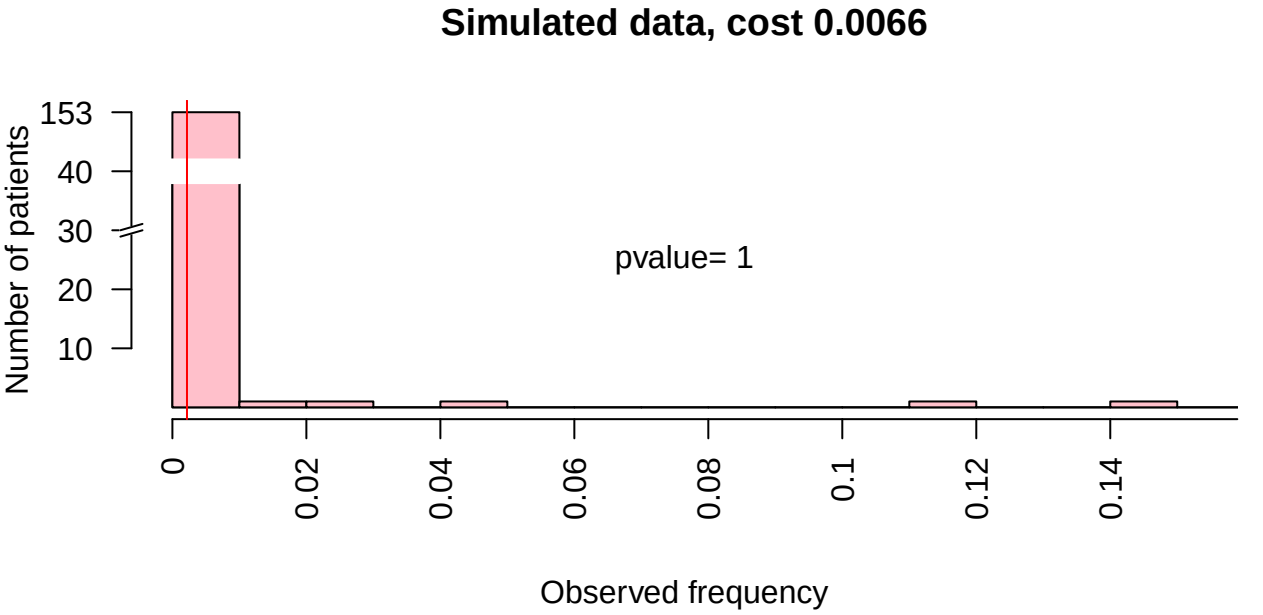

Single−SFS, site 704
Number of patients
149
40
30
20
10
0
0.02
0.04
Observed frequency

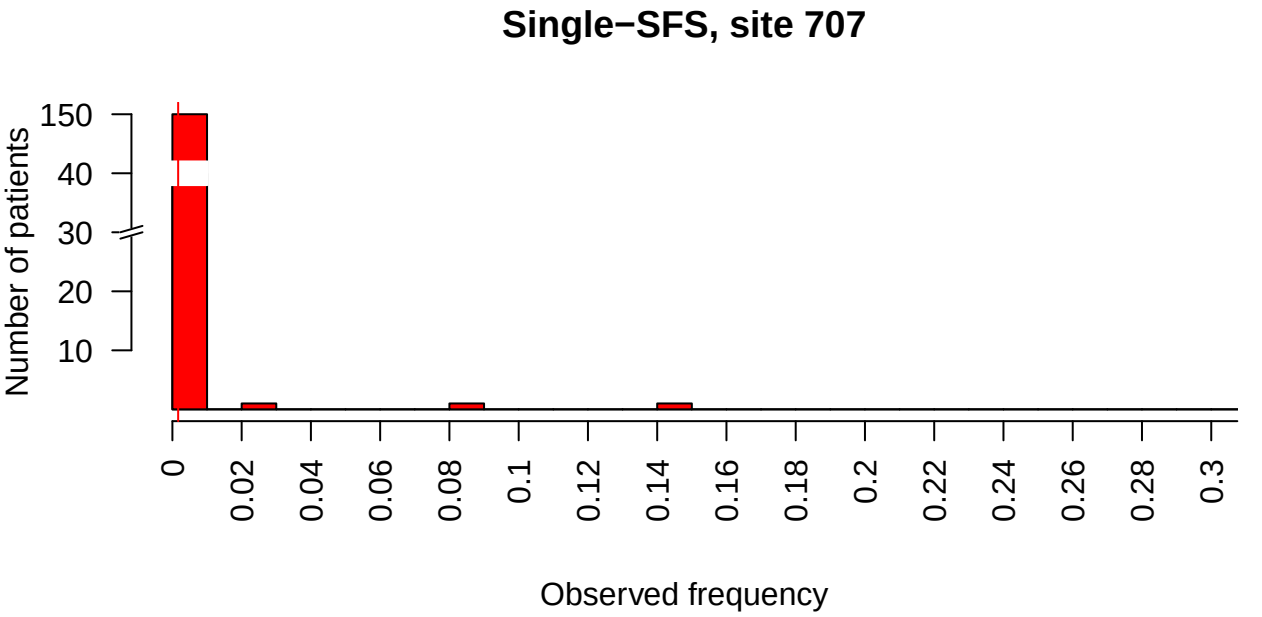

Simulated data, cost 0.0192
Number of patients
150
40
30
20
10
pvalue= 0.646
0
0.02
0.04
Observed frequency

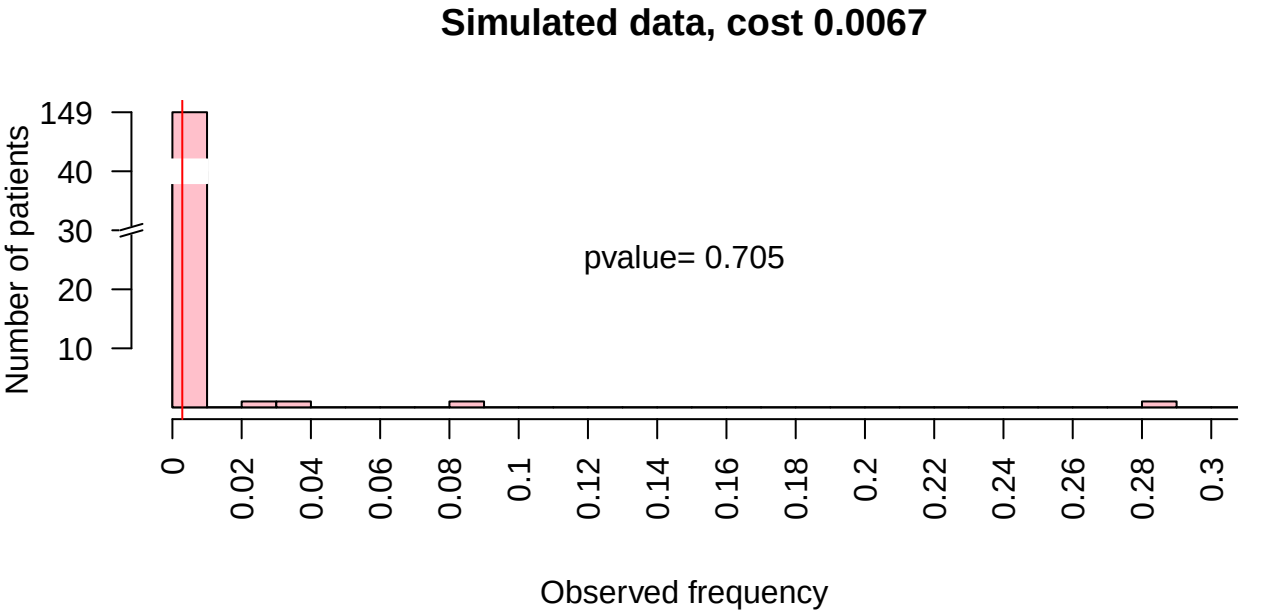

Single−SFS, site 705
Number of patients
125
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
Observed frequency

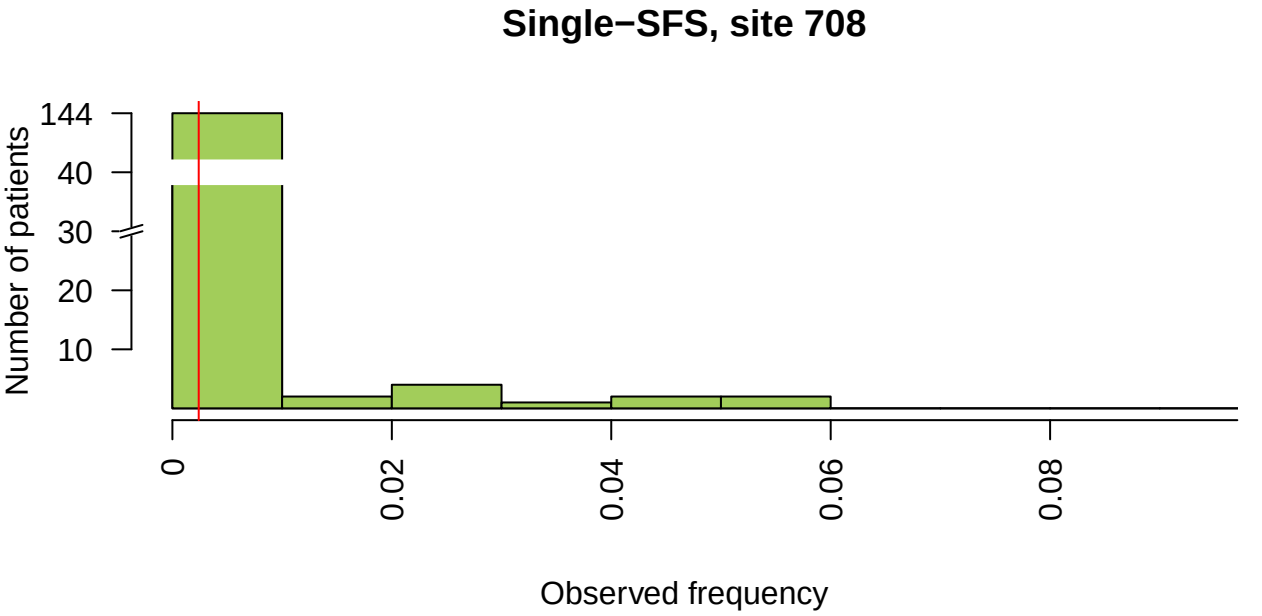

Simulated data, cost 0.0064
Number of patients
127
40
30
20
10
pvalue= 0.588
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
Observed frequency

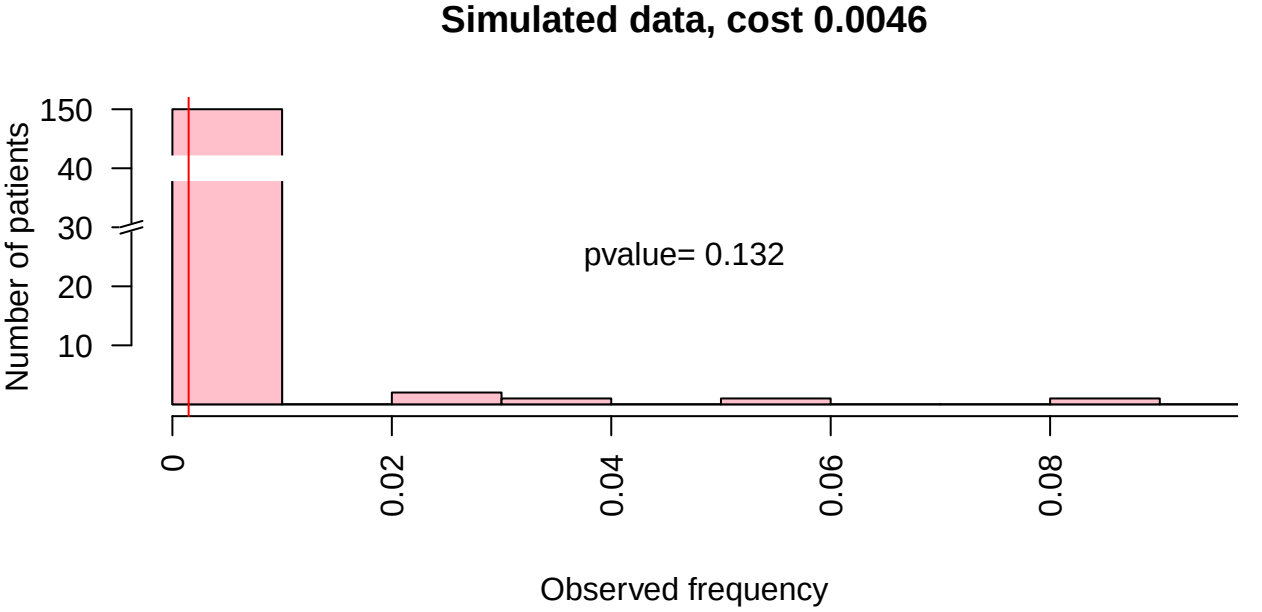

Single−SFS, site 706
Number of patients
153
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
Observed frequency

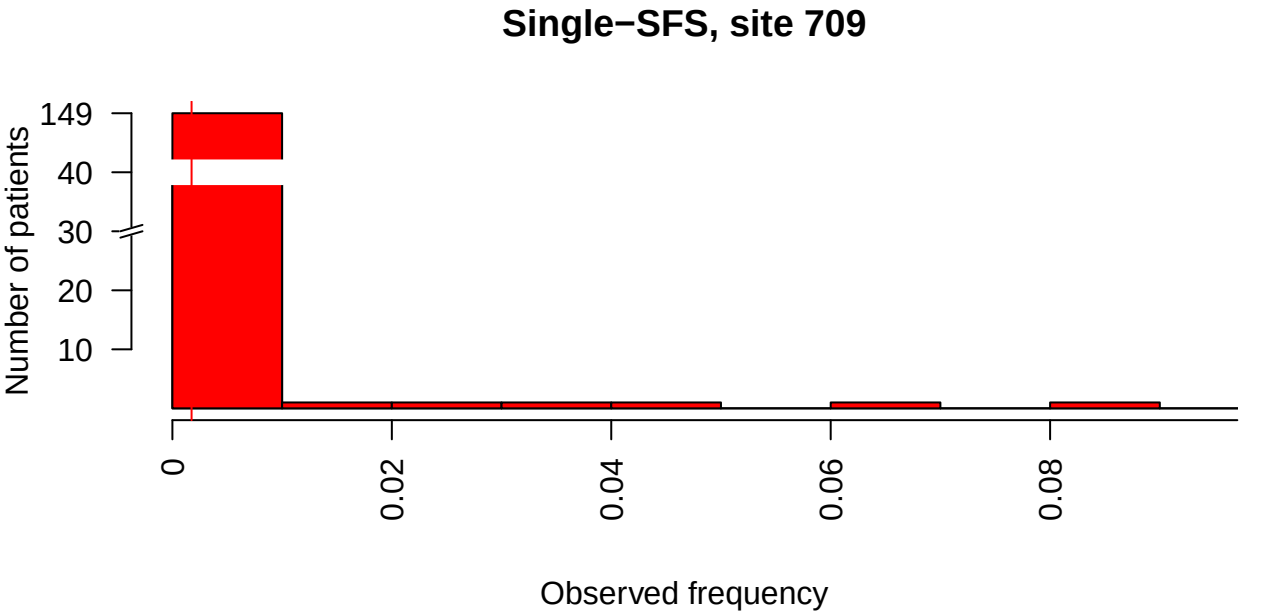

Simulated data, cost 0.0066
Number of patients
153
40
30
20
10
pvalue= 1
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
Observed frequency

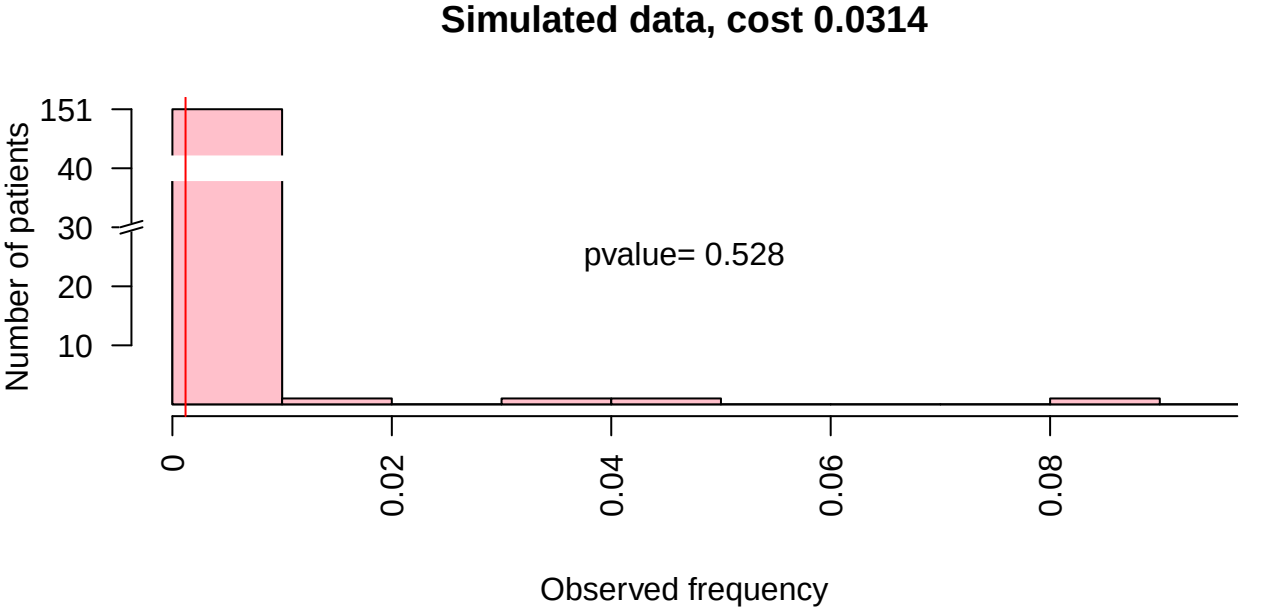

Single−SFS, site 707
Number of patients
150
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
0.24
0.26
0.28
0.3
Observed frequency

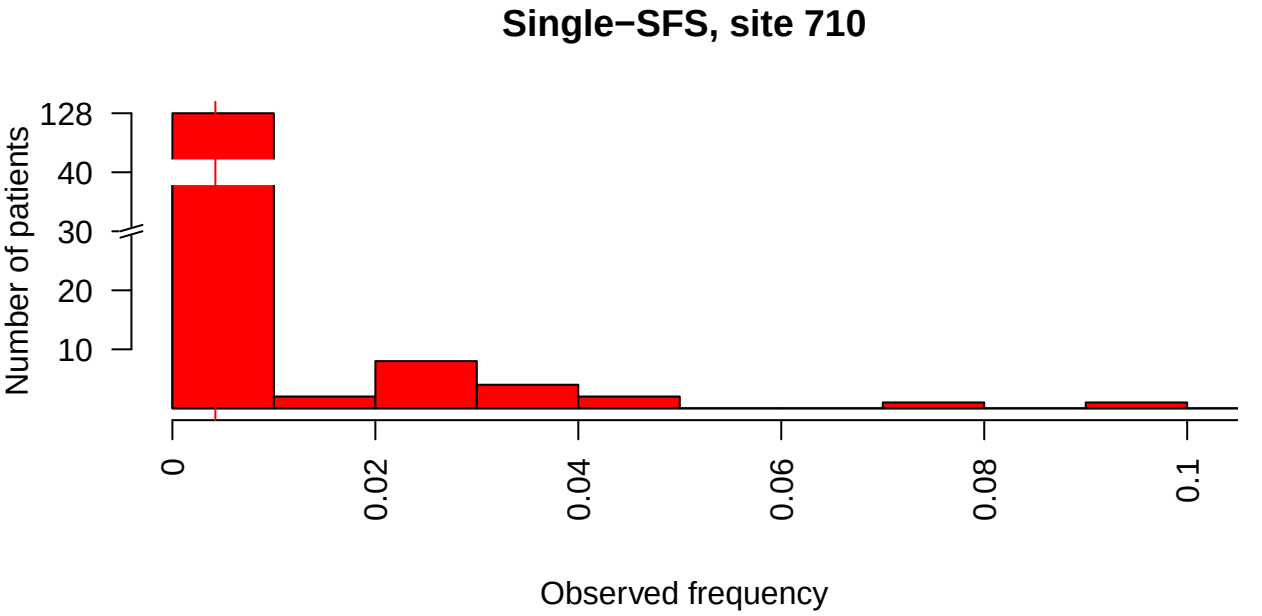

Simulated data, cost 0.0067
Number of patients
149
40
30
20
10
pvalue= 0.705
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
0.24
0.26
0.28
0.3
Observed frequency

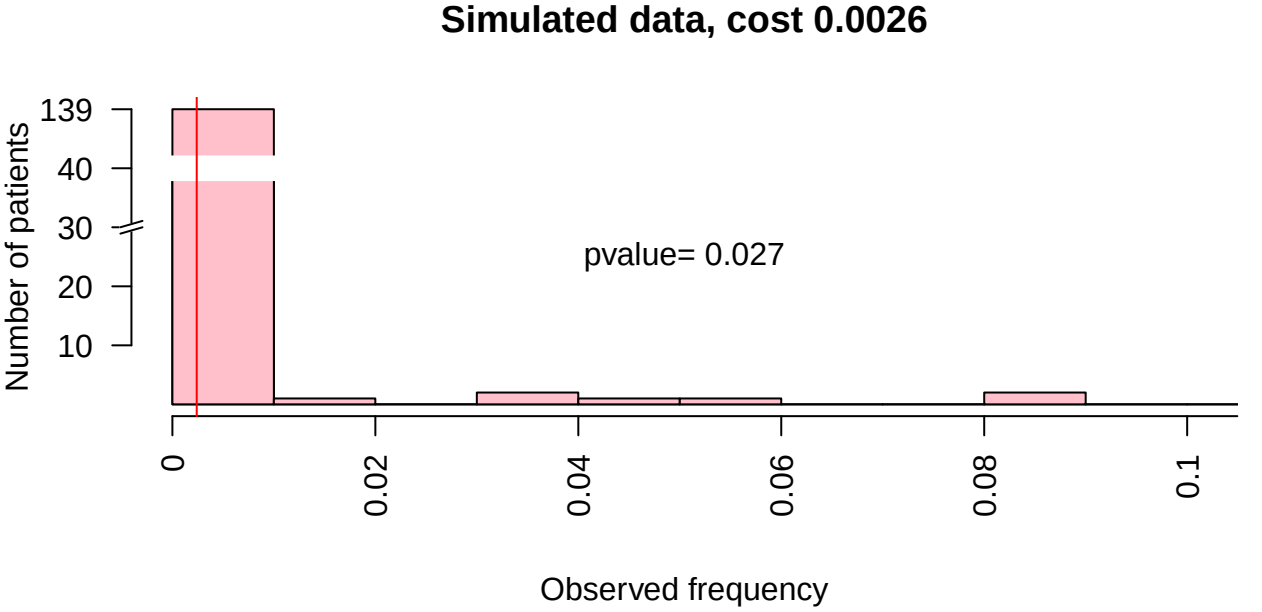

Single−SFS, site 708
Number of patients
144
40
30
20
10
0
0.02
0.04
0.06
0.08
Observed frequency

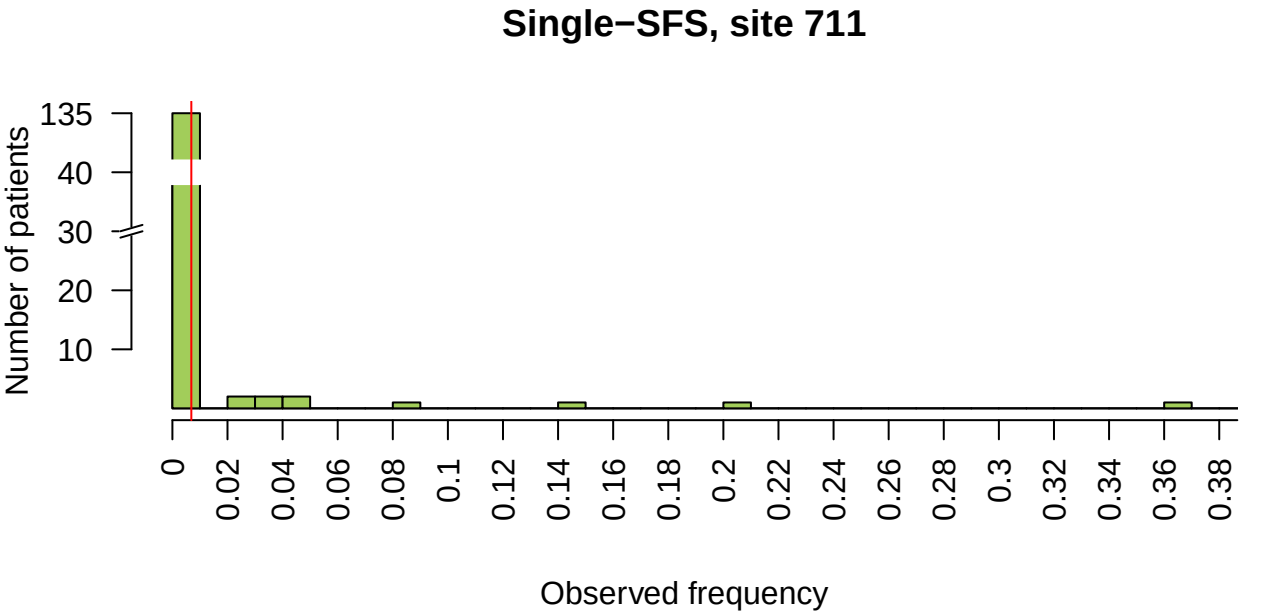

Simulated data, cost 0.0046
Number of patients
150
40
30
20
10
pvalue= 0.132
0
0.02
0.04
0.06
0.08
Observed frequency

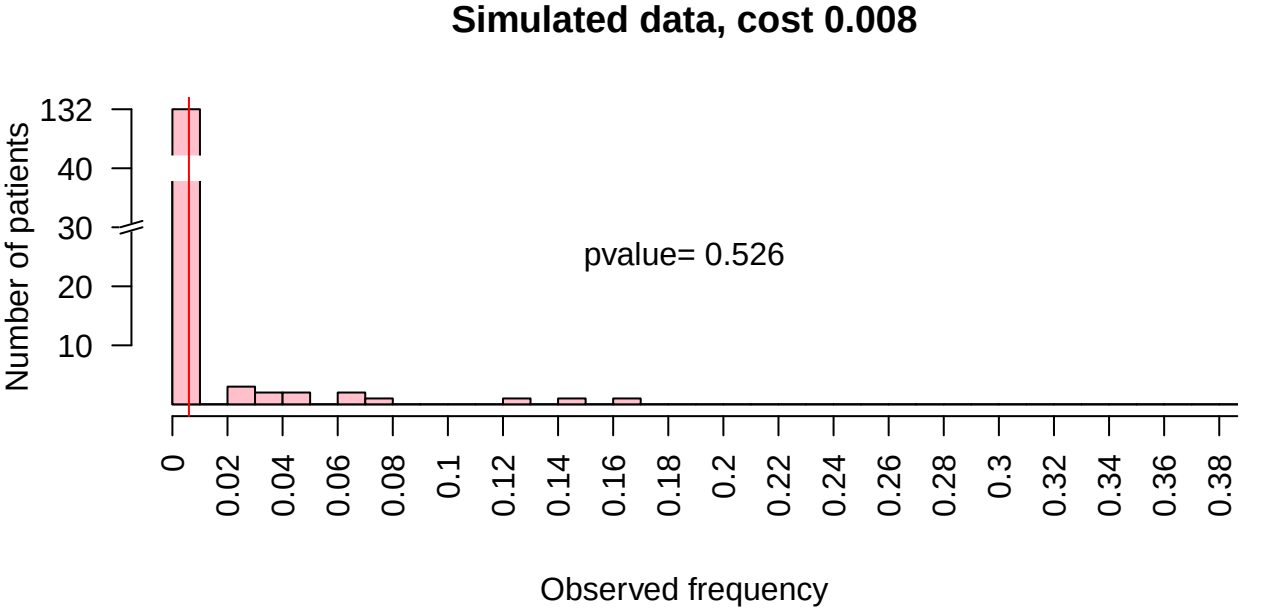

Single−SFS, site 709
Number of patients
149
40
30
20
10
0
0.02
0.04
0.06
0.08
Observed frequency

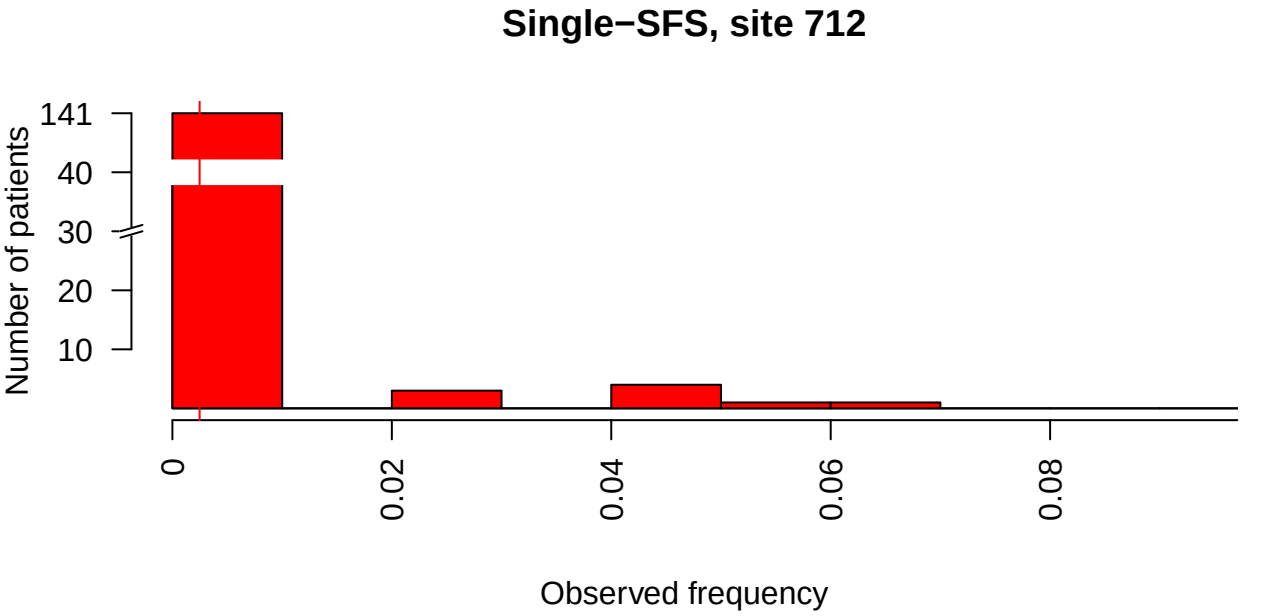

Simulated data, cost 0.0314
Number of patients
151
40
30
20
10
pvalue= 0.528
0
0.02
0.04
0.06
0.08
Observed frequency

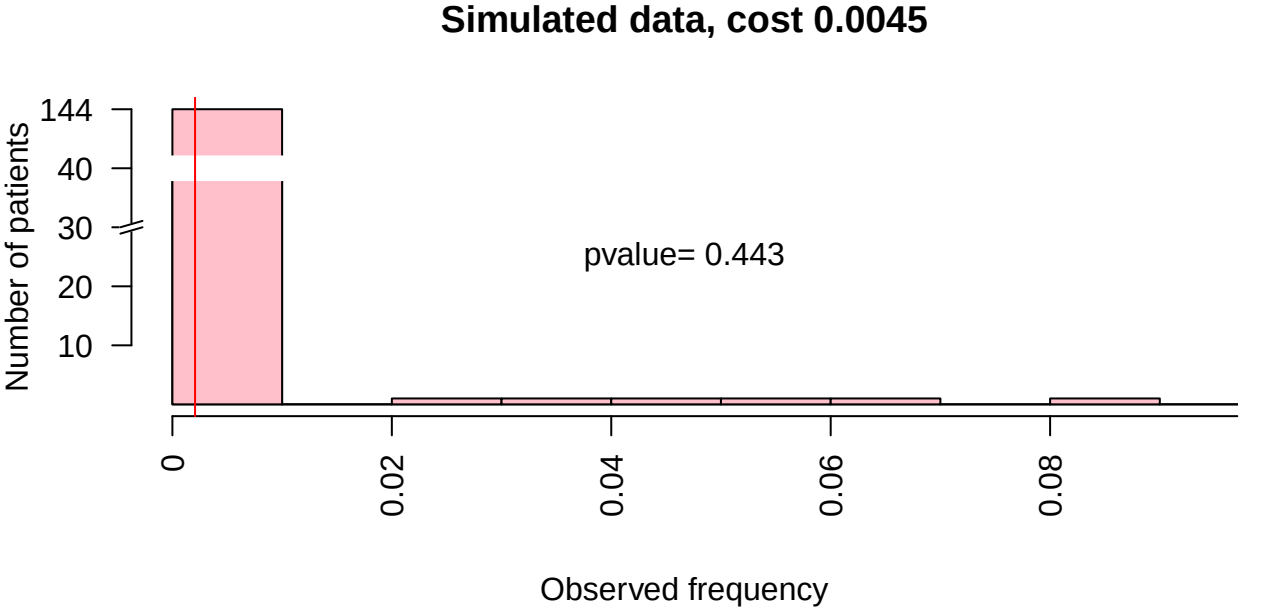

Single−SFS, site 710
Number of patients
128
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
Observed frequency

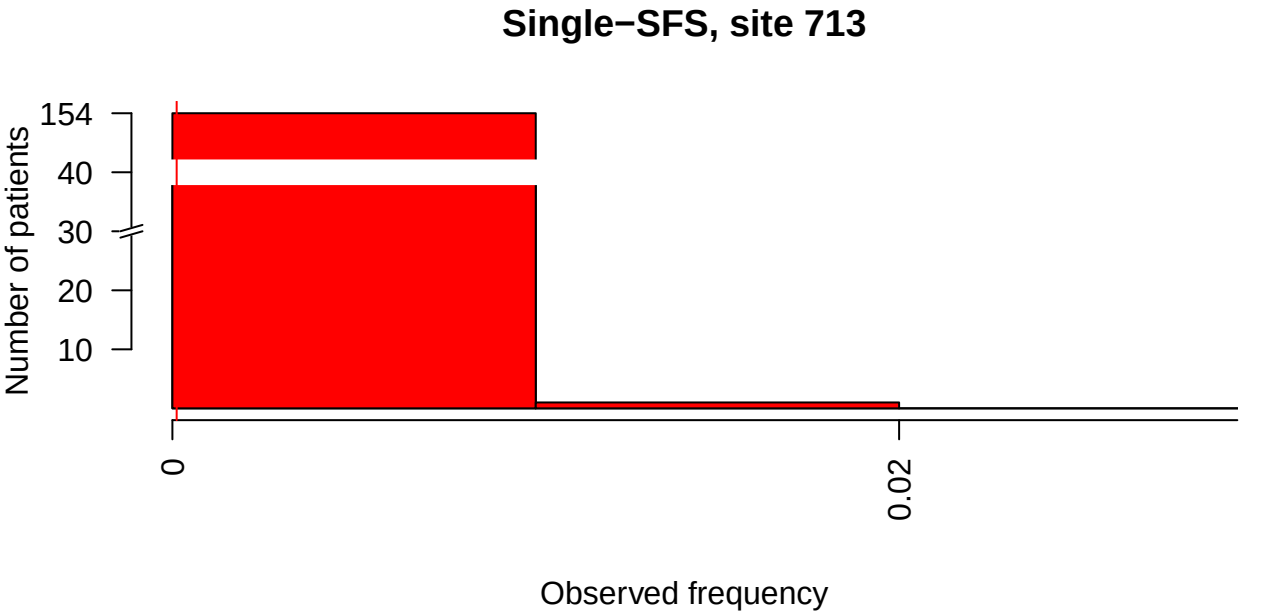

Simulated data, cost 0.0026
Number of patients
139
40
30
20
10
pvalue= 0.027
0
0.02
0.04
0.06
0.08
0.1
Observed frequency

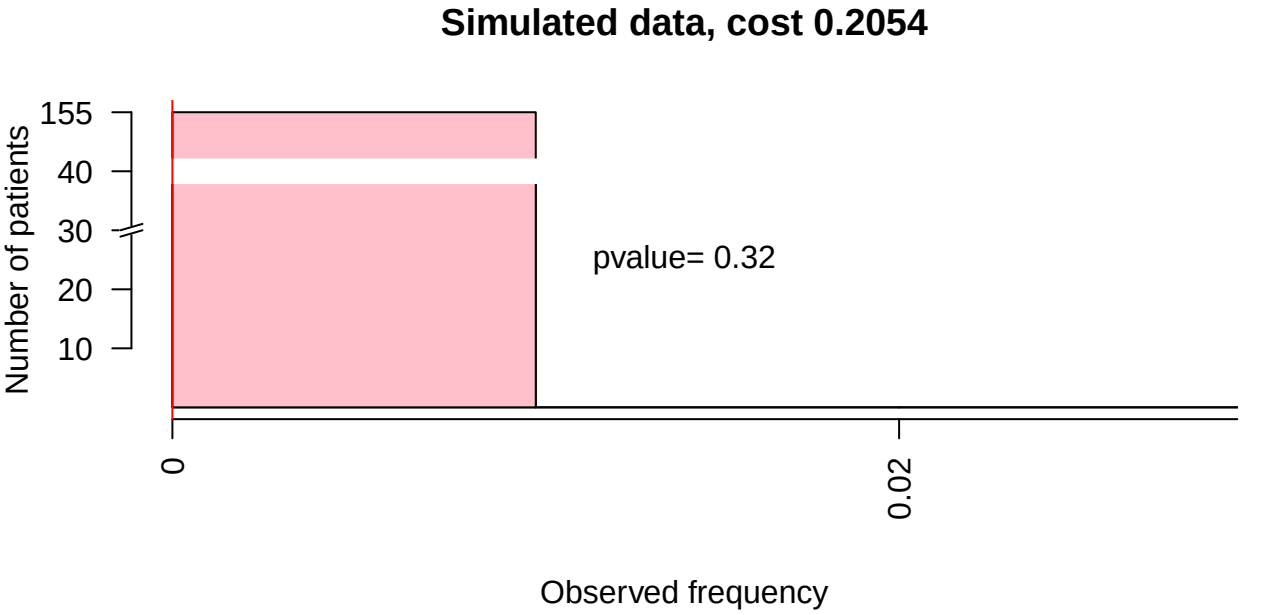

Single−SFS, site 711
Number of patients
135
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
0.24
0.26
0.28
0.3
0.32
0.34
0.36
0.38
Observed frequency

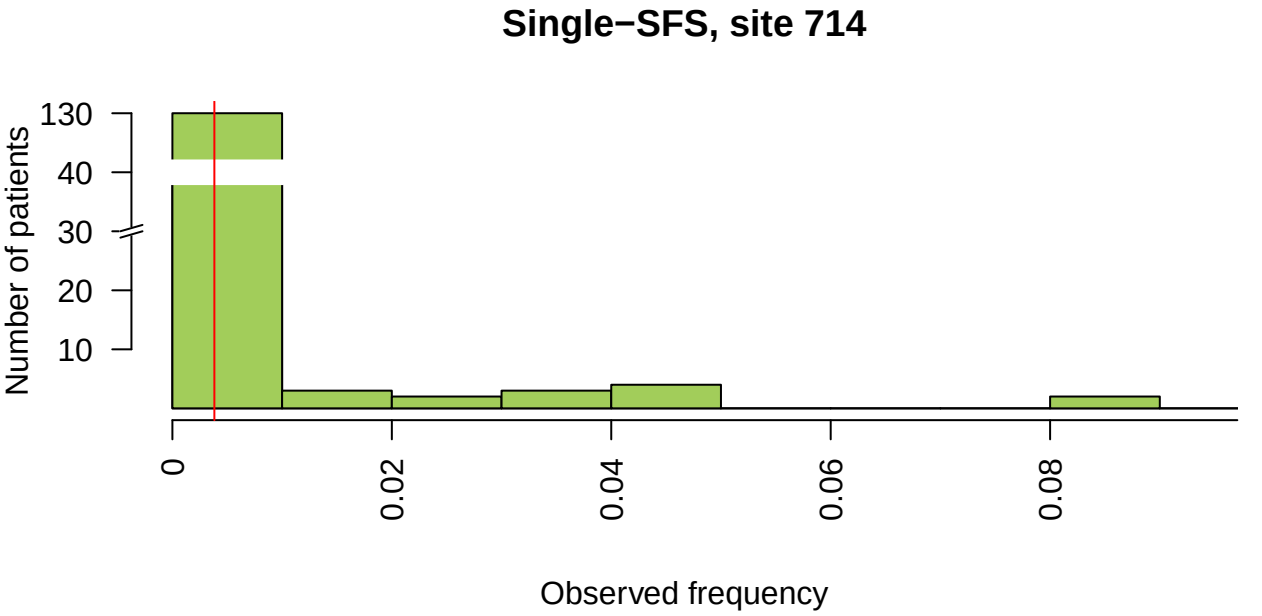

Simulated data, cost 0.008
Number of patients
132
40
30
20
10
pvalue= 0.526
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
0.24
0.26
0.28
0.3
0.32
0.34
0.36
0.38
Observed frequency

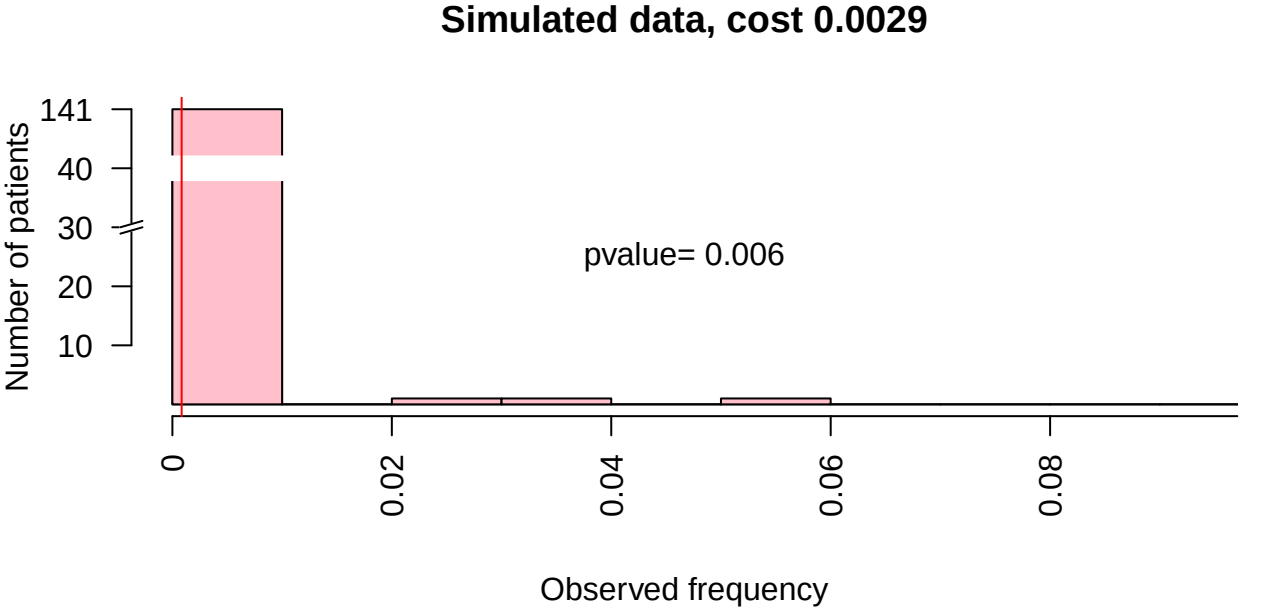

Single−SFS, site 712
Number of patients
141
40
30
20
10
0
0.02
0.04
0.06
0.08
Observed frequency

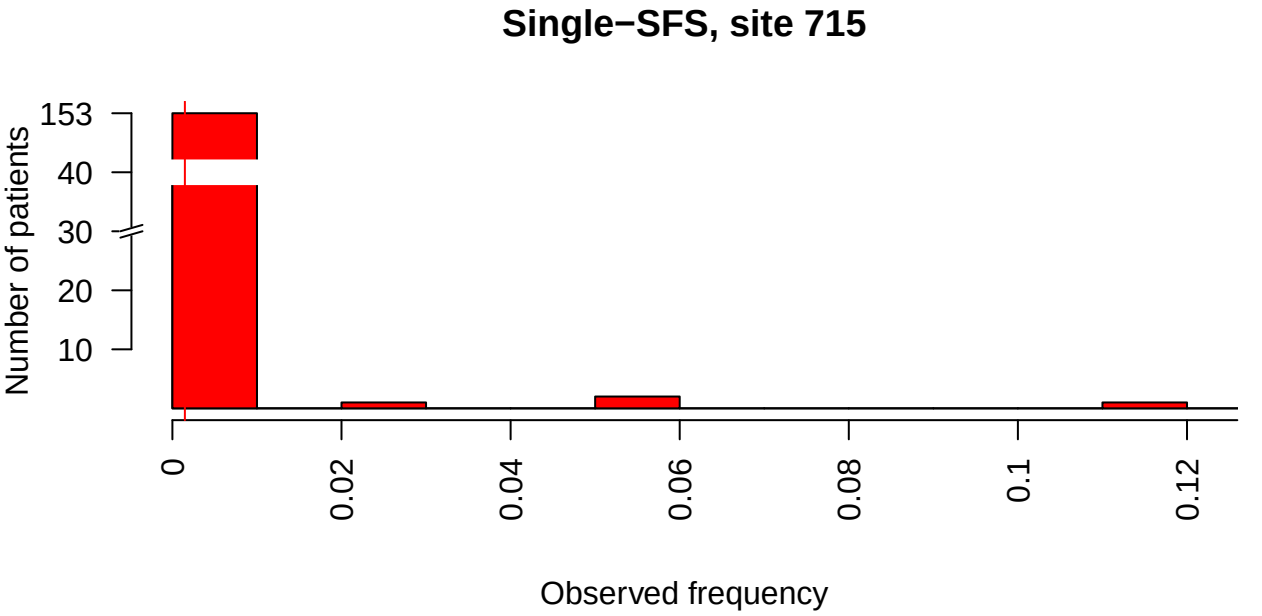

Simulated data, cost 0.0045
Number of patients
144
40
30
20
10
pvalue= 0.443
0
0.02
0.04
0.06
0.08
Observed frequency

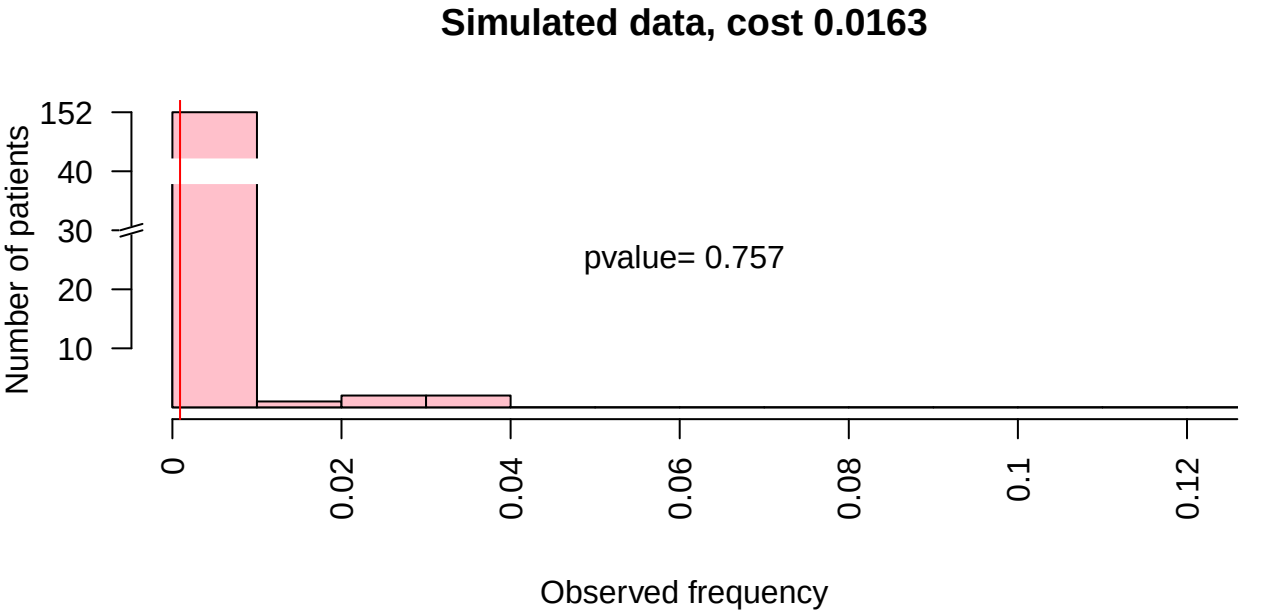

Single−SFS, site 713
Number of patients
154
40
30
20
10
0
0.02
Observed frequency

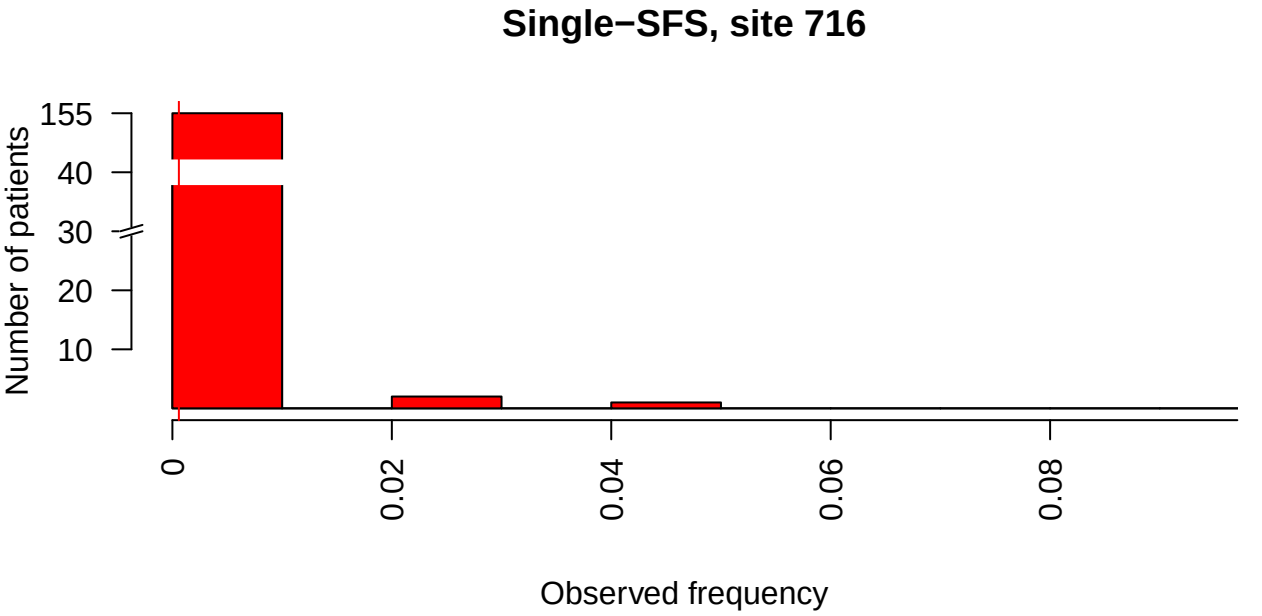

Simulated data, cost 0.2054
Number of patients
155
40
30
20
10
pvalue= 0.32
0
0.02
Observed frequency

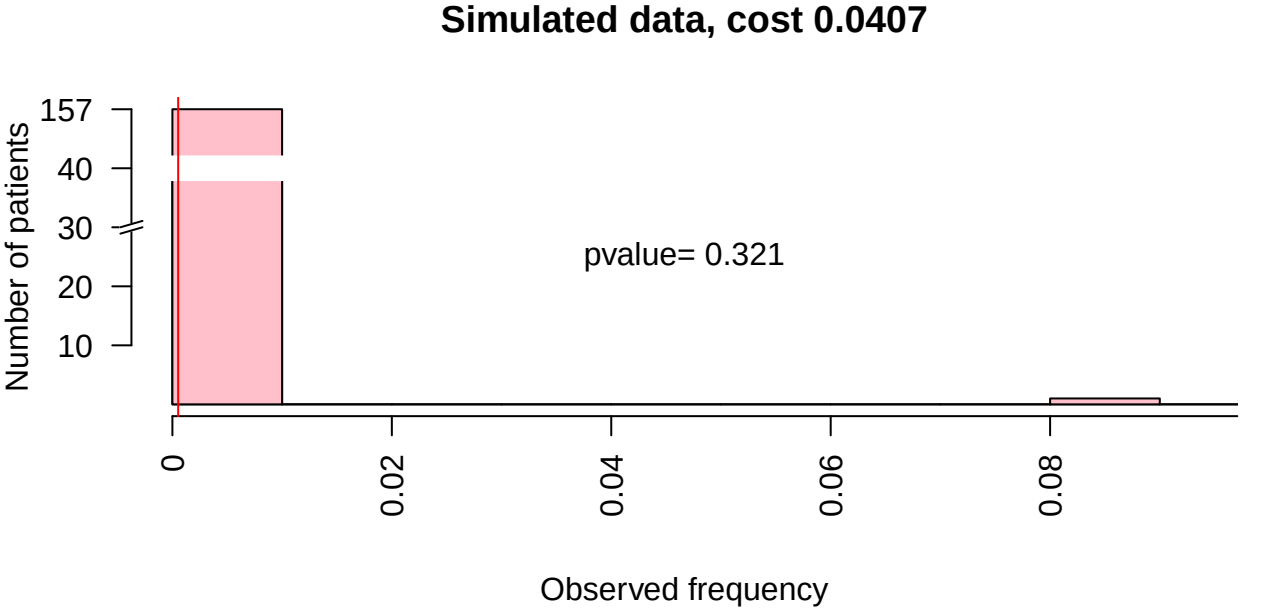

Single−SFS, site 714
Number of patients
130
40
30
20
10
0
0.02
0.04
0.06
0.08
Observed frequency

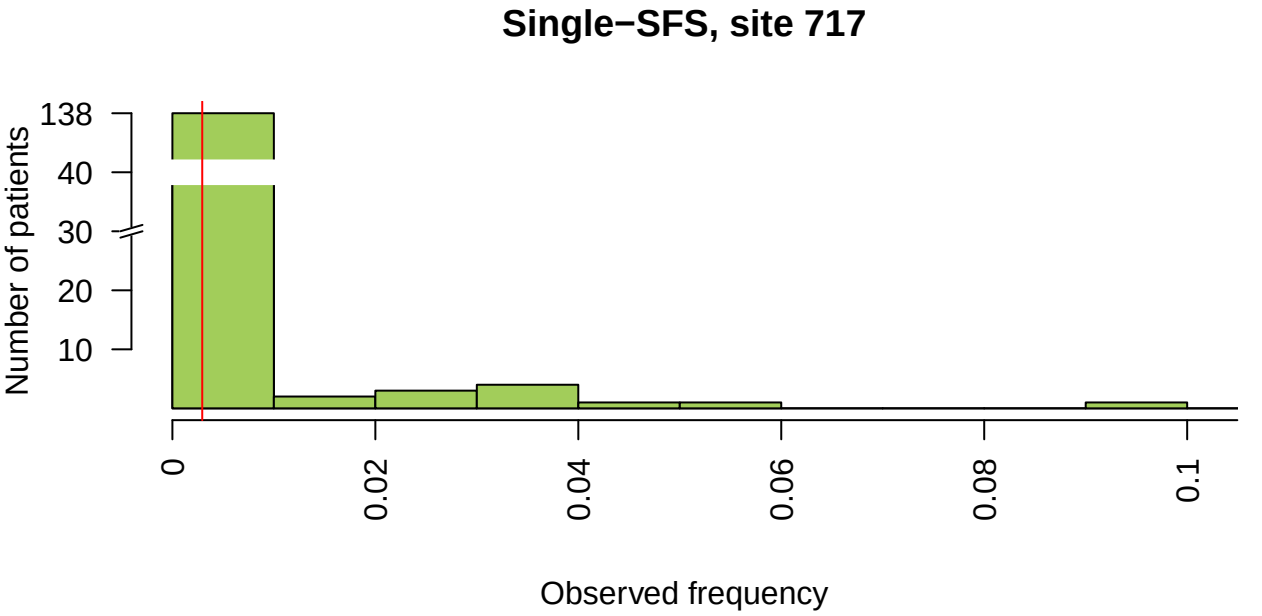

Simulated data, cost 0.0029
Number of patients
141
40
30
20
10
pvalue= 0.006
0
0.02
0.04
0.06
0.08
Observed frequency

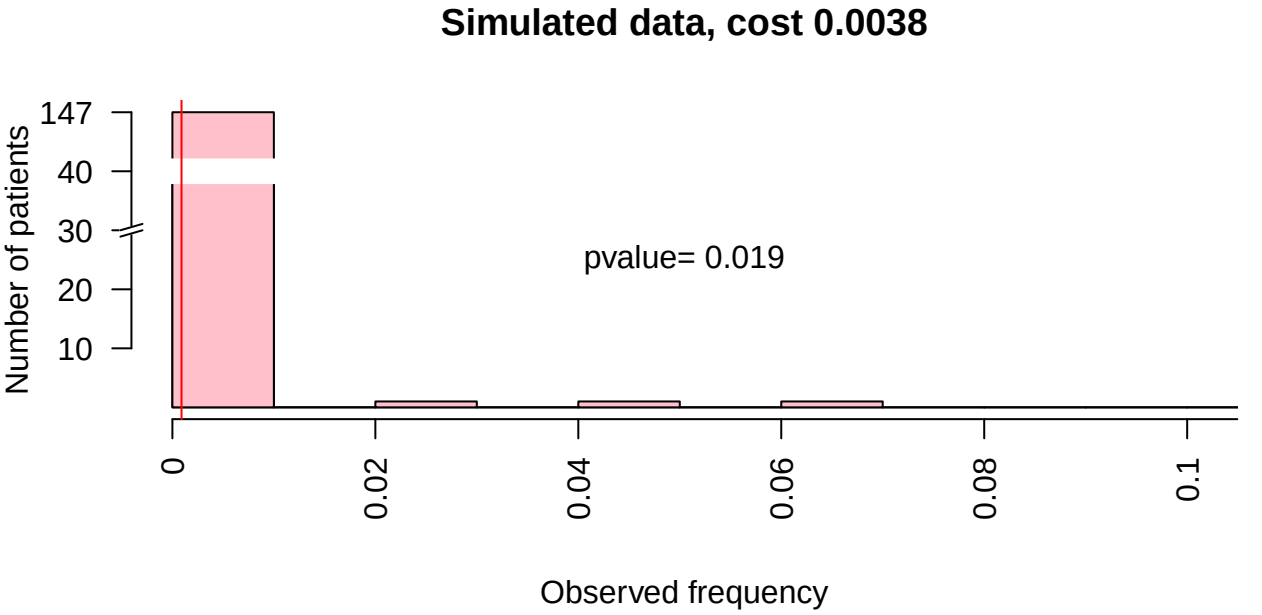

Single−SFS, site 715
Number of patients
153
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
Observed frequency

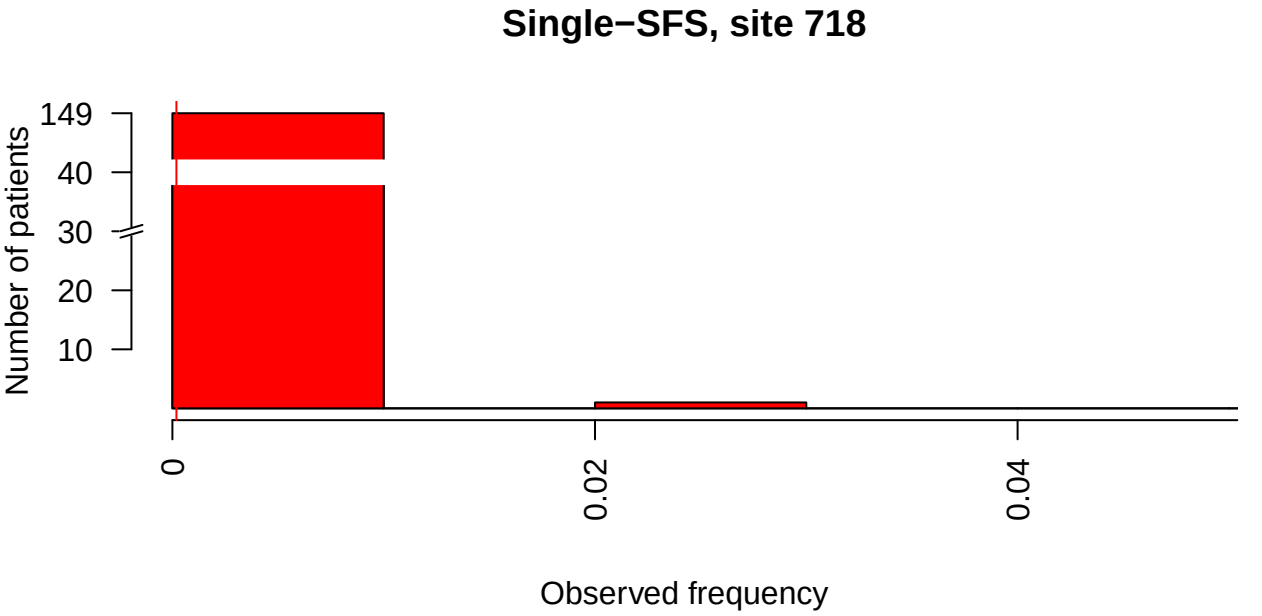

Simulated data, cost 0.0163
Number of patients
152
40
30
20
10
pvalue= 0.757
0
0.02
0.04
0.06
0.08
0.1
0.12
Observed frequency

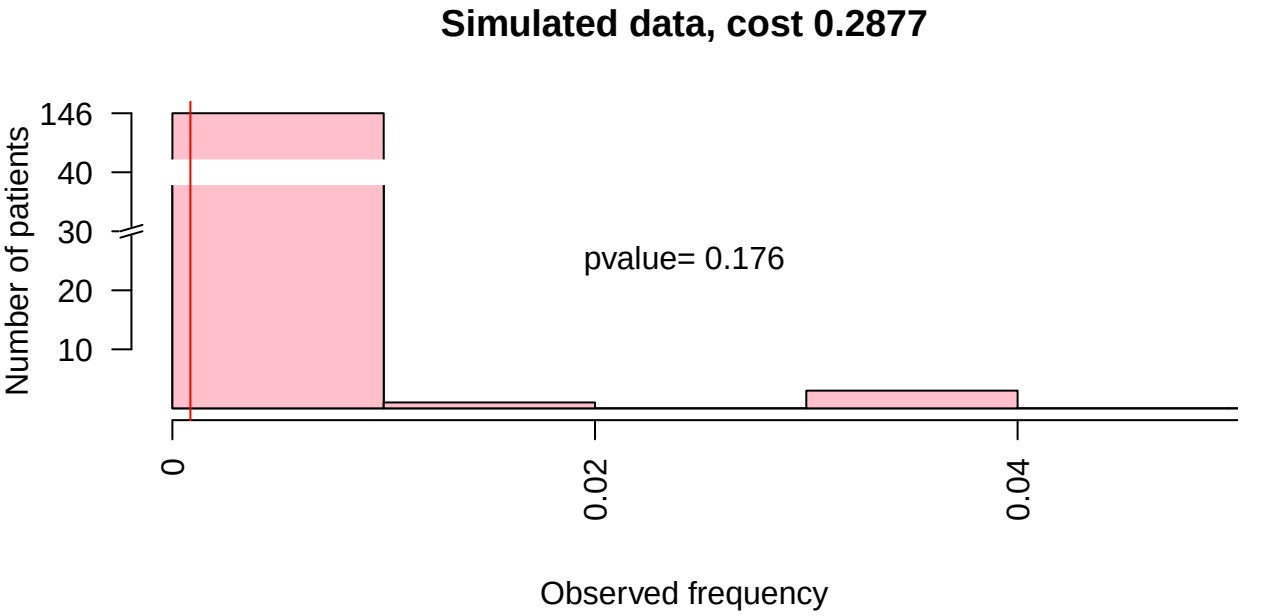

Single−SFS, site 716
Number of patients
155
40
30
20
10
0
0.02
0.04
0.06
0.08
Observed frequency

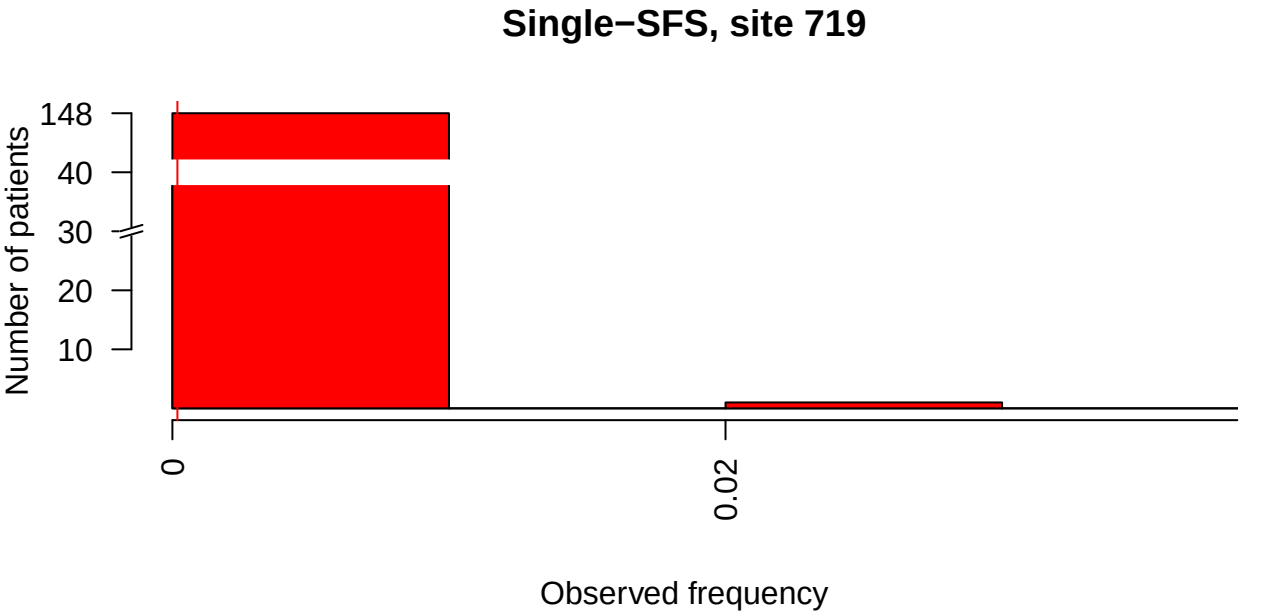

Simulated data, cost 0.0407
Number of patients
157
40
30
20
10
pvalue= 0.321
0
0.02
0.04
0.06
0.08
Observed frequency

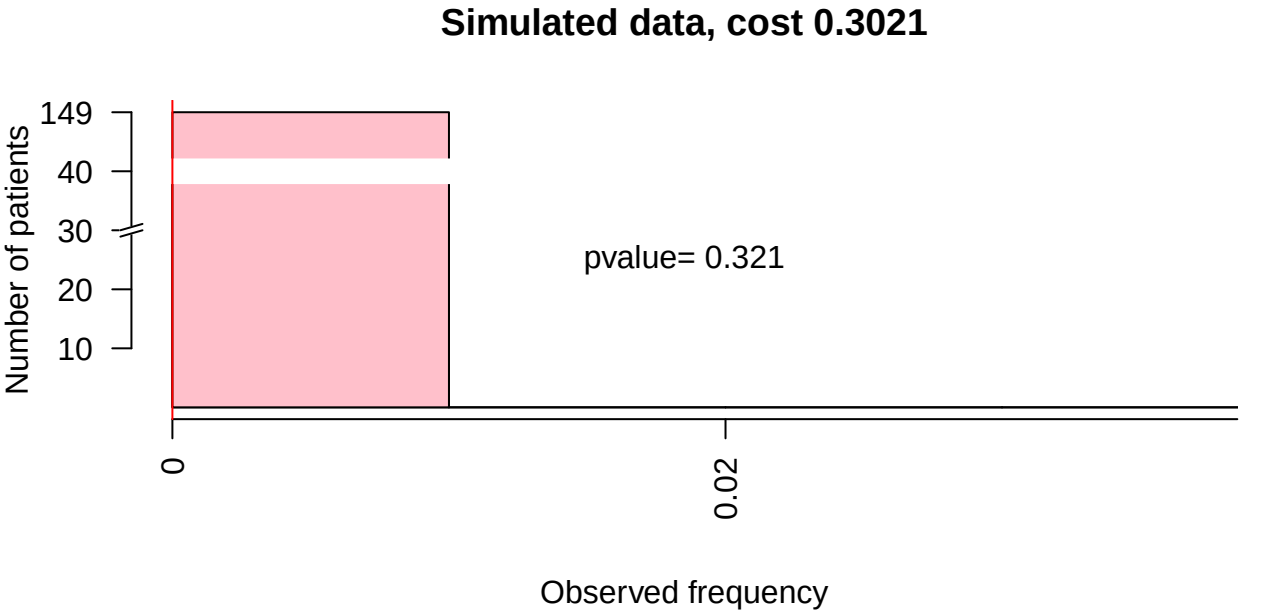

Single−SFS, site 717
Number of patients
138
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
Observed frequency

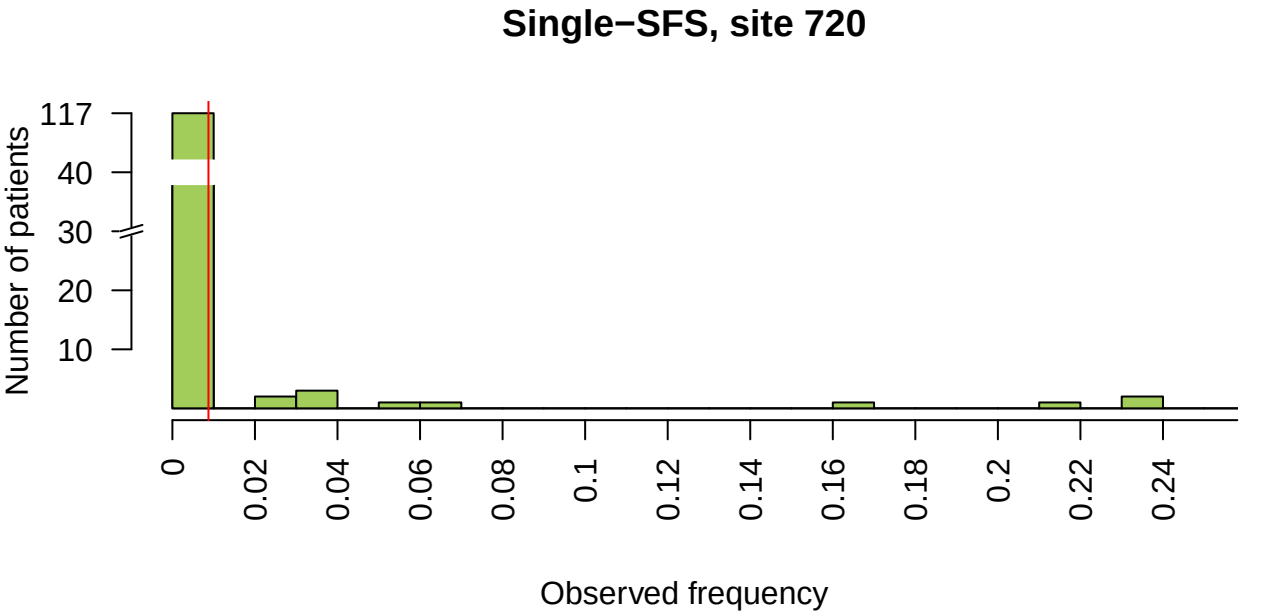

Simulated data, cost 0.0038
Number of patients
147
40
30
20
10
pvalue= 0.019
0
0.02
0.04
0.06
0.08
0.1
Observed frequency

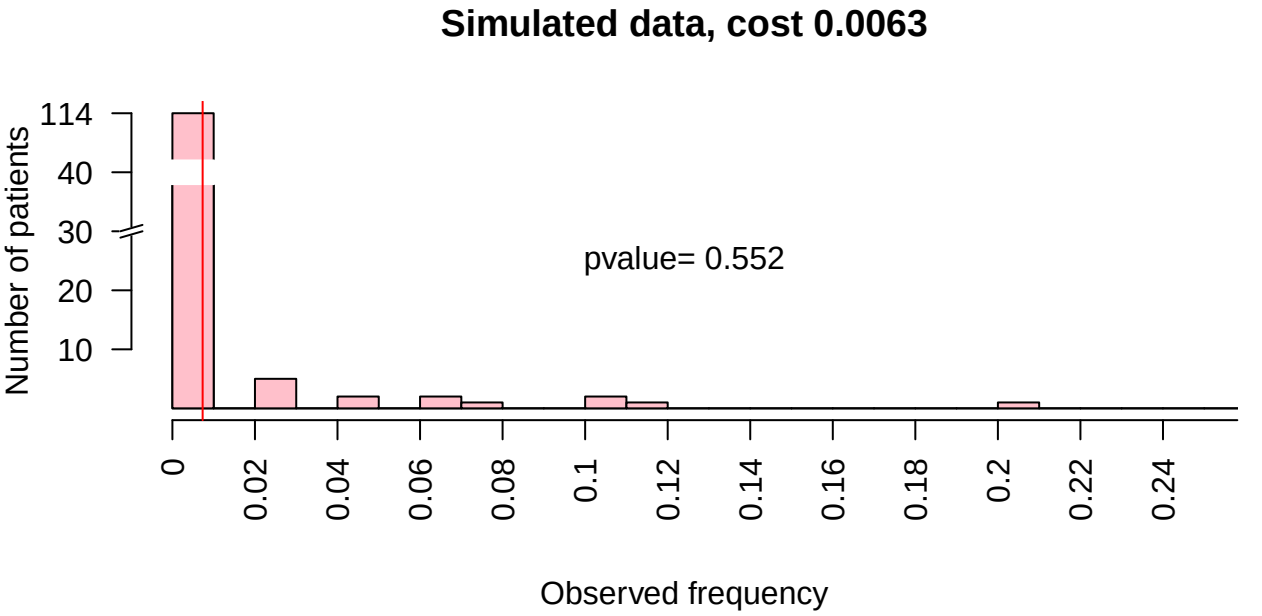

Single−SFS, site 718
Number of patients
149
40
30
20
10
0
0.02
0.04
Observed frequency

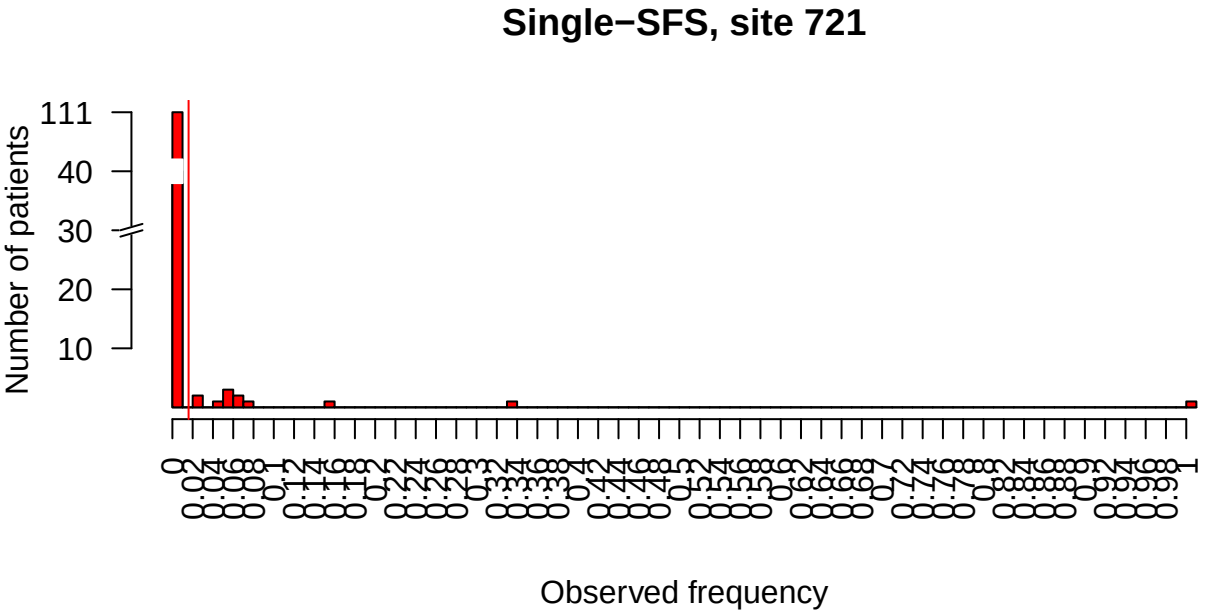

Simulated data, cost 0.2877
Number of patients
146
40
30
20
10
pvalue= 0.176
0
0.02
0.04
Observed frequency

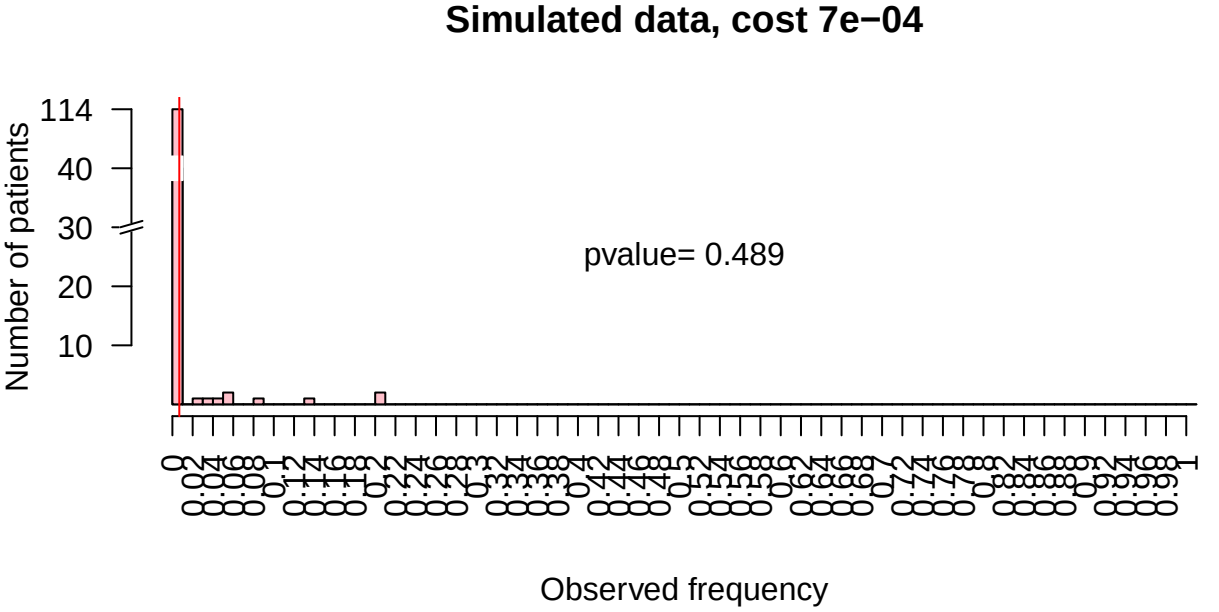

Single−SFS, site 719
Number of patients
148
40
30
20
10
0
0.02
Observed frequency

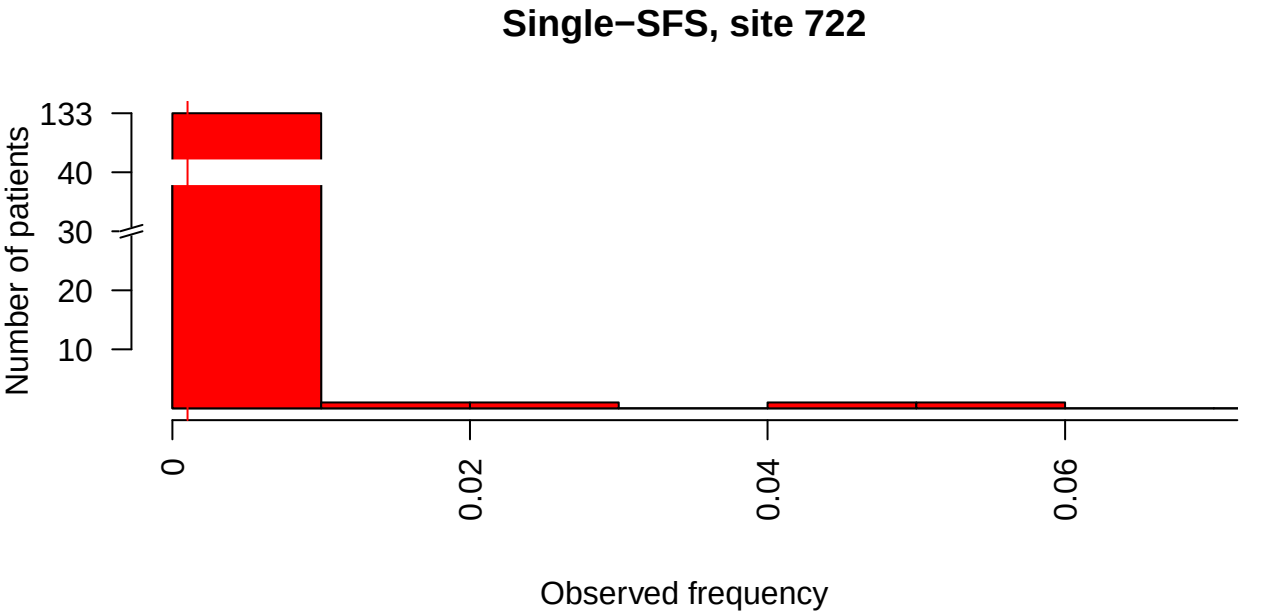

Simulated data, cost 0.3021
Number of patients
149
40
30
20
10
pvalue= 0.321
0
0.02
Observed frequency

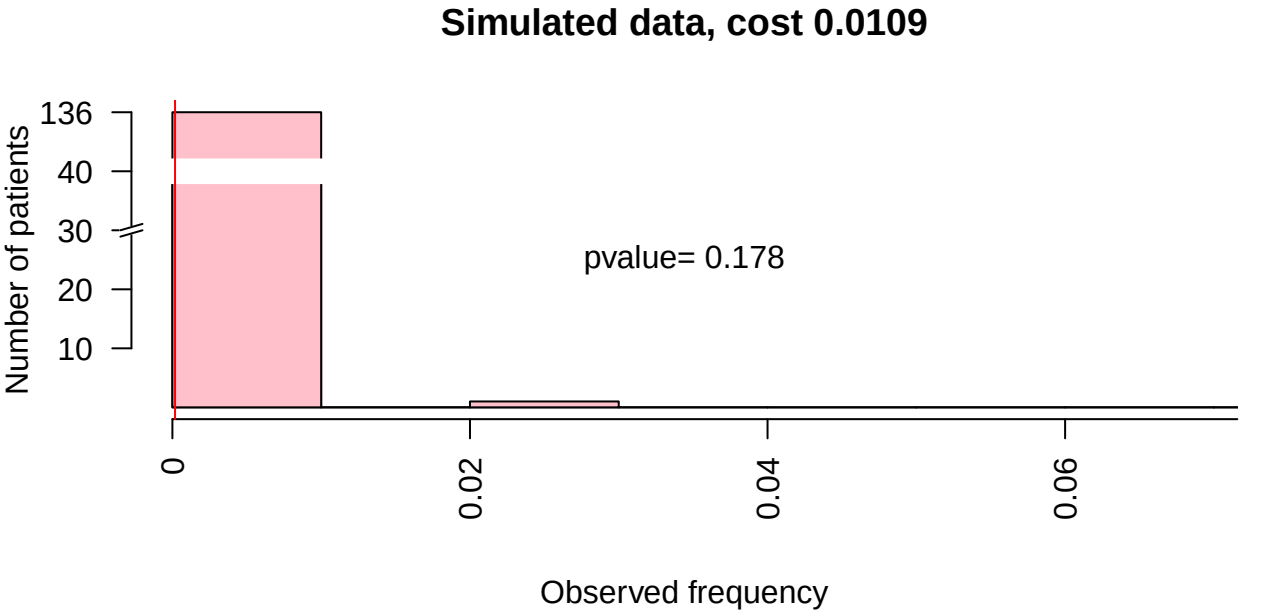

Single−SFS, site 720
Number of patients
117
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
0.24
Observed frequency

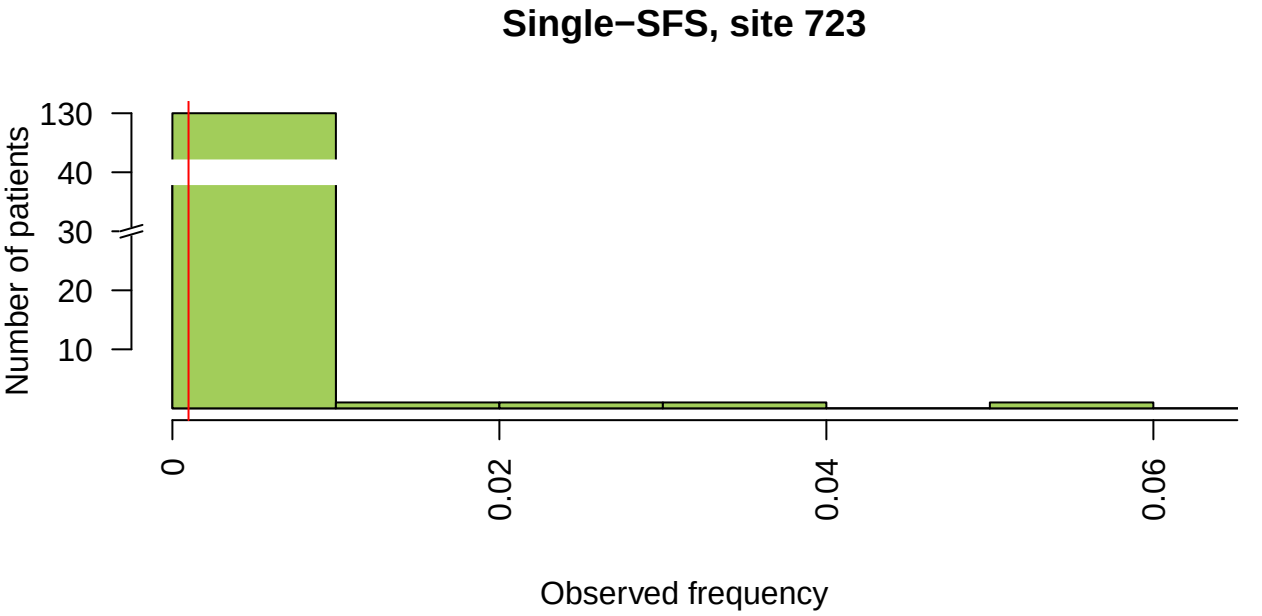

Simulated data, cost 0.0063
Number of patients
114
40
30
20
10
pvalue= 0.552
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
0.24
Observed frequency

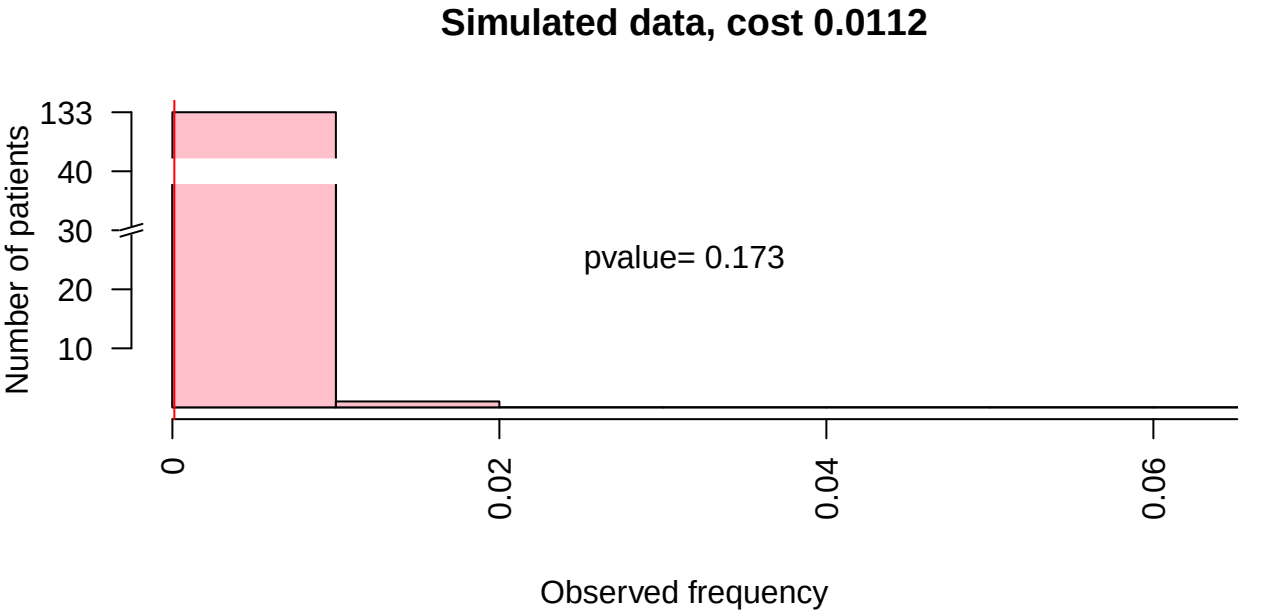

Single−SFS, site 721
Number of patients
111
40
30
20
10
Observed frequency

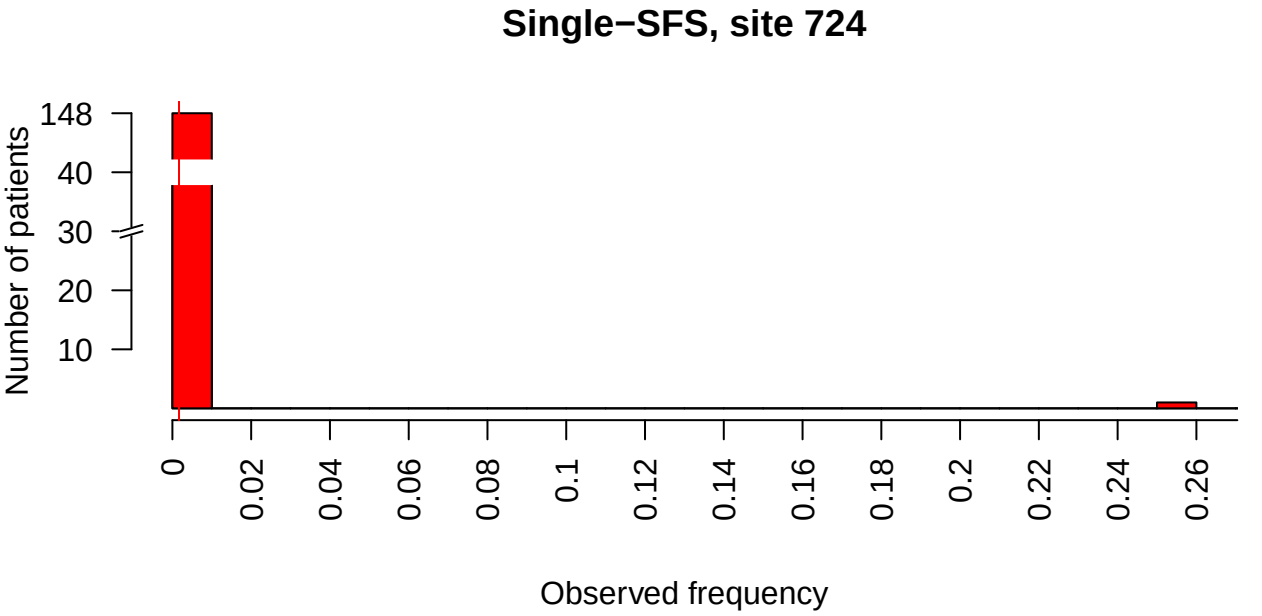

Simulated data, cost 7e−04
Number of patients
114
40
30
20
10
pvalue= 0.489
Observed frequency

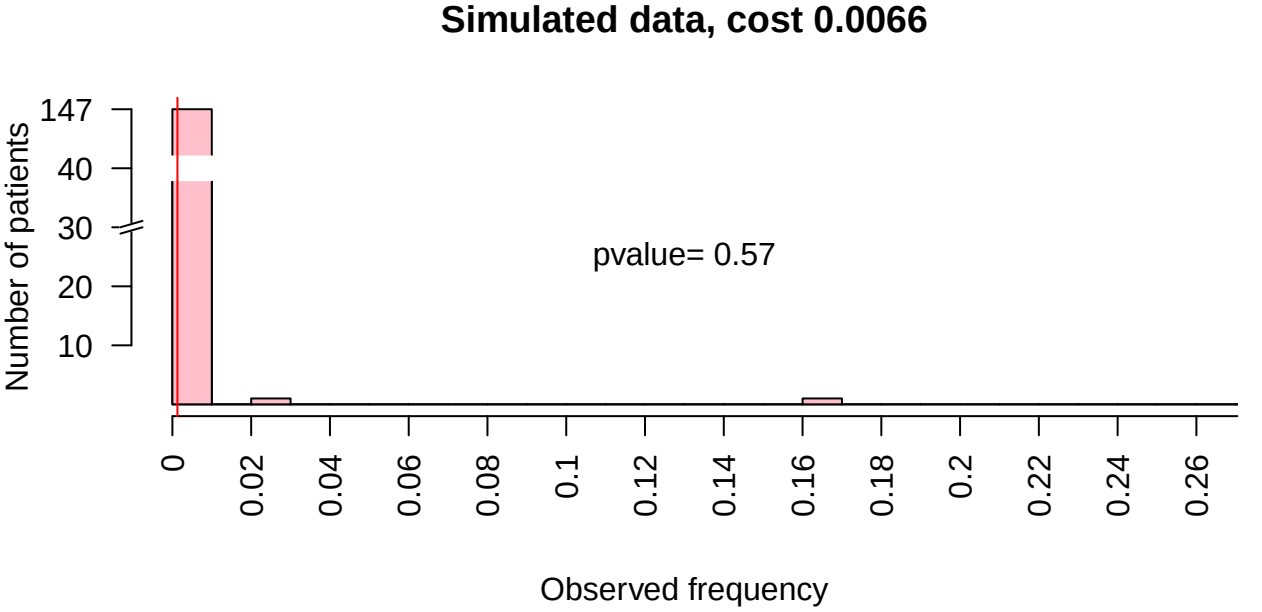

Single−SFS, site 722
Number of patients
133
40
30
20
10
0
0.02
0.04
0.06
Observed frequency

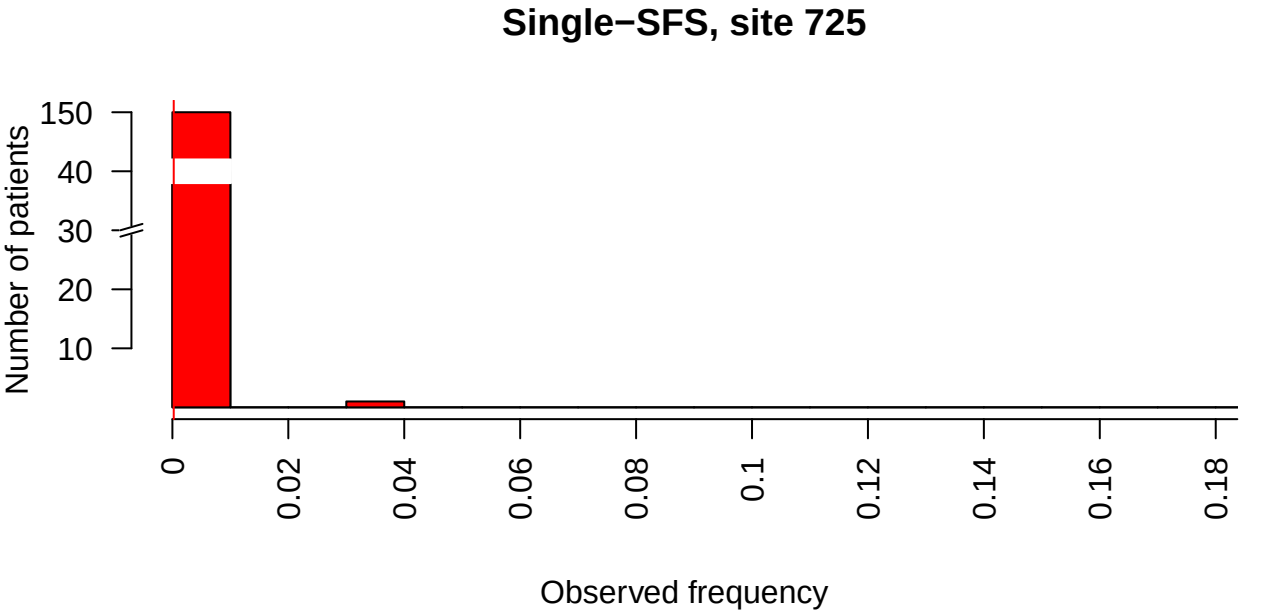

Simulated data, cost 0.0109
Number of patients
136
40
30
20
10
pvalue= 0.178
0
0.02
0.04
0.06
Observed frequency

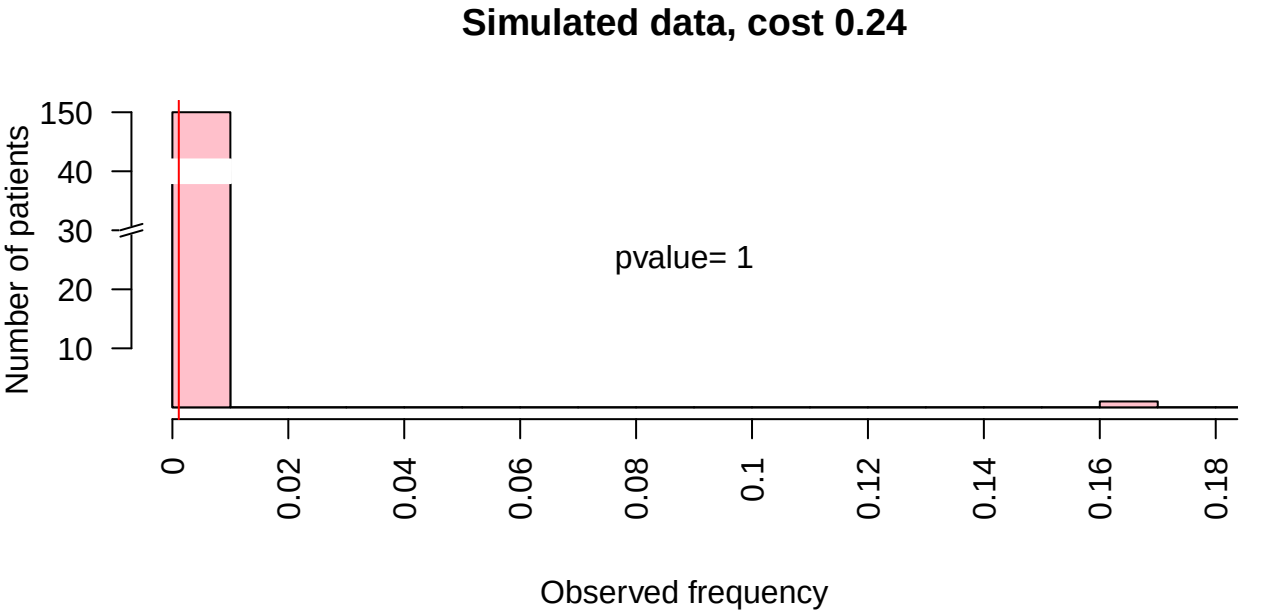

Single−SFS, site 723
Number of patients
130
40
30
20
10
0
0.02
0.04
0.06
Observed frequency

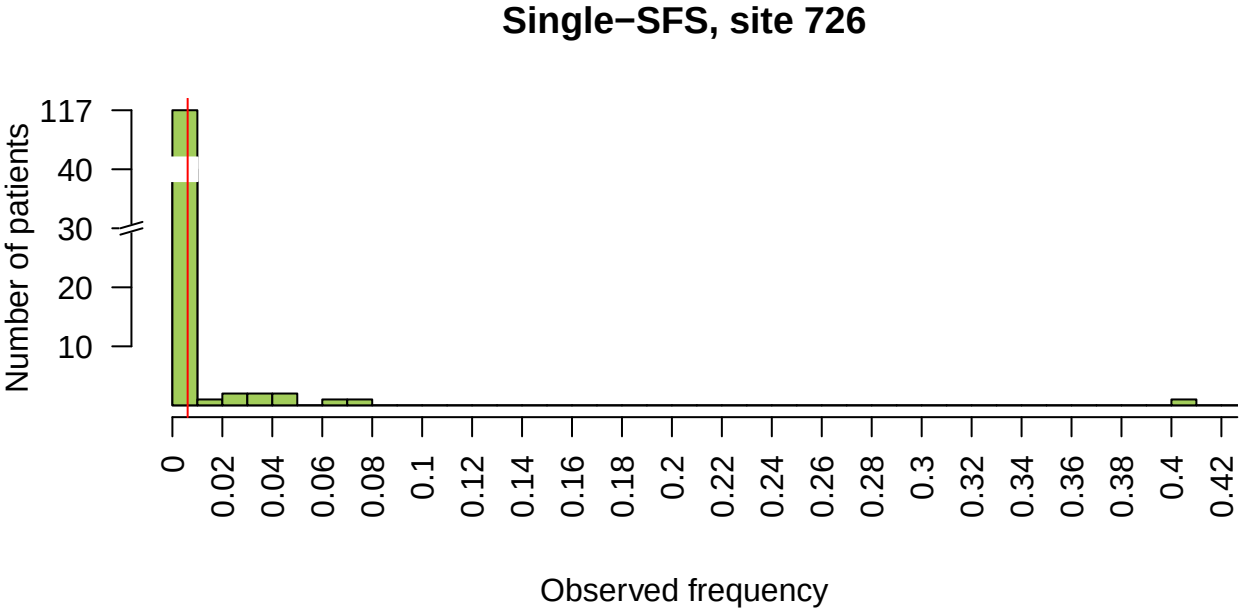

Simulated data, cost 0.0112
Number of patients
133
40
30
20
10
pvalue= 0.173
0
0.02
0.04
0.06
Observed frequency

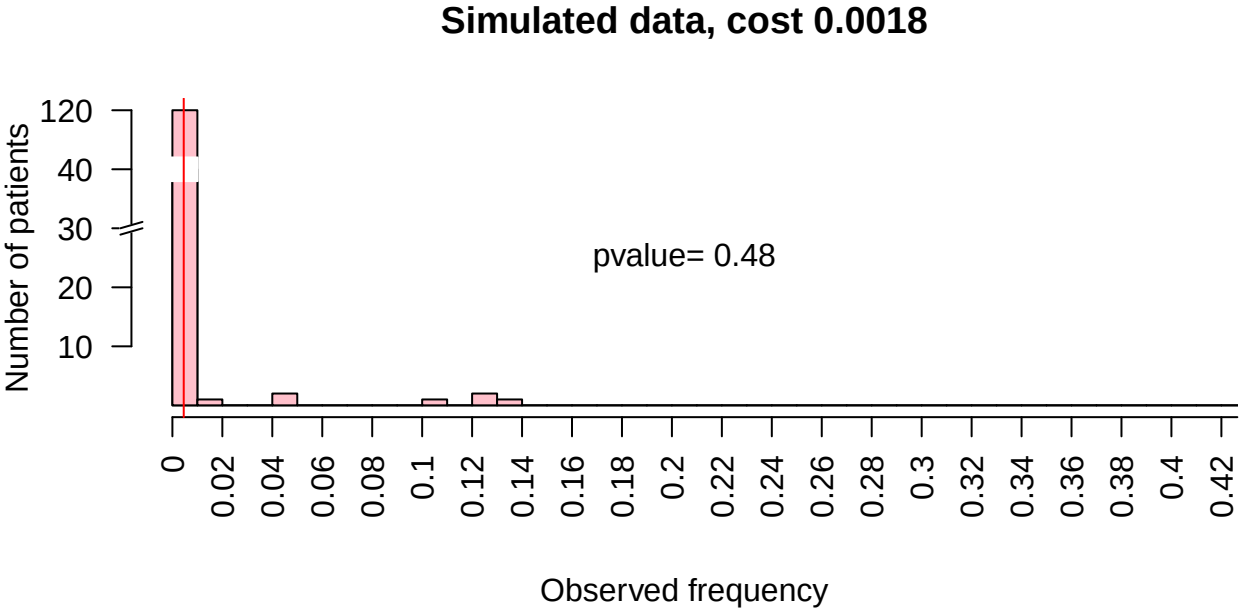

Single−SFS, site 724
Number of patients
148
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
0.24
0.26
Observed frequency

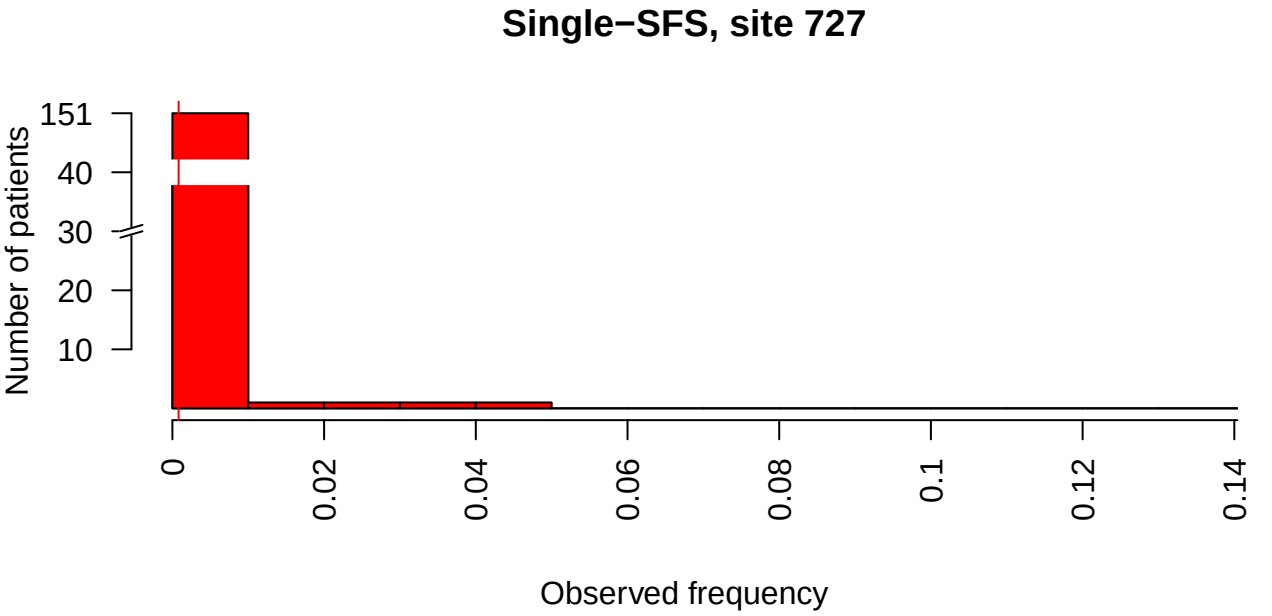

Simulated data, cost 0.0066
Number of patients
147
40
30
20
10
pvalue= 0.57
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
0.24
0.26
Observed frequency

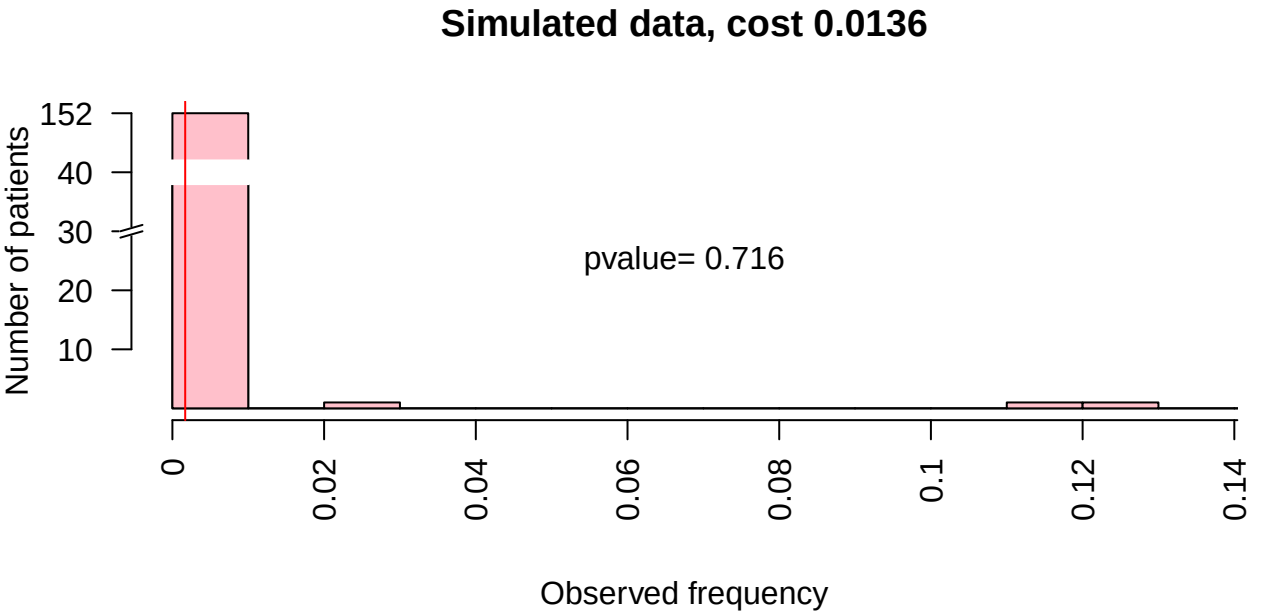

Single−SFS, site 725
Number of patients
150
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
Observed frequency

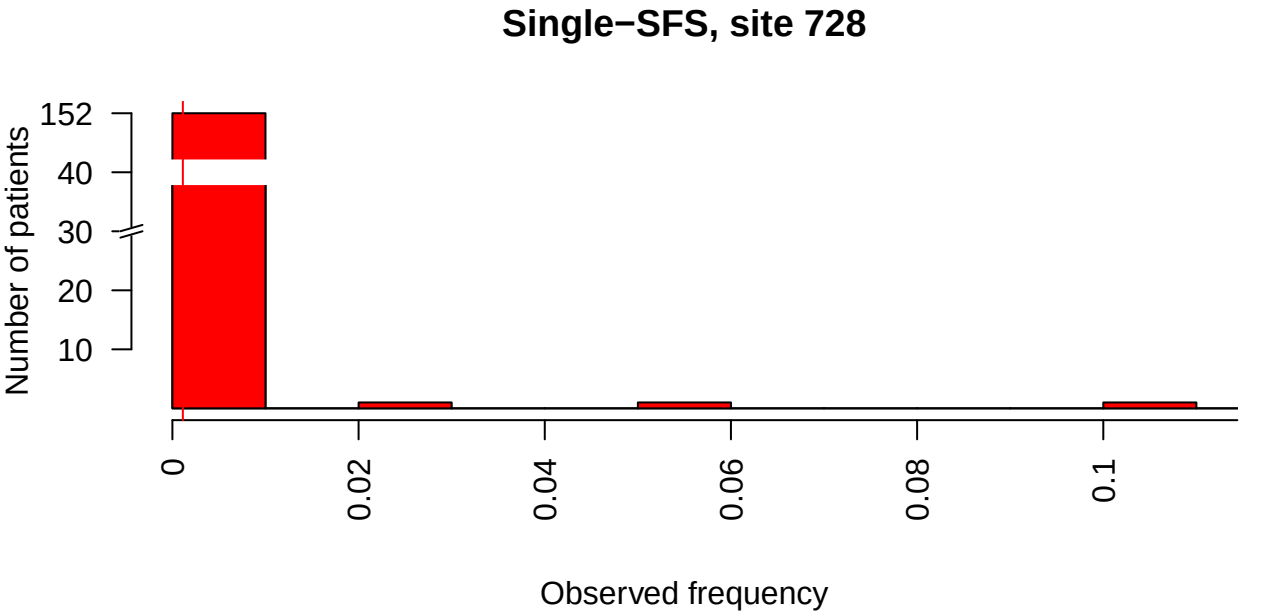

Simulated data, cost 0.24
Number of patients
150
40
30
20
10
pvalue= 1
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
Observed frequency

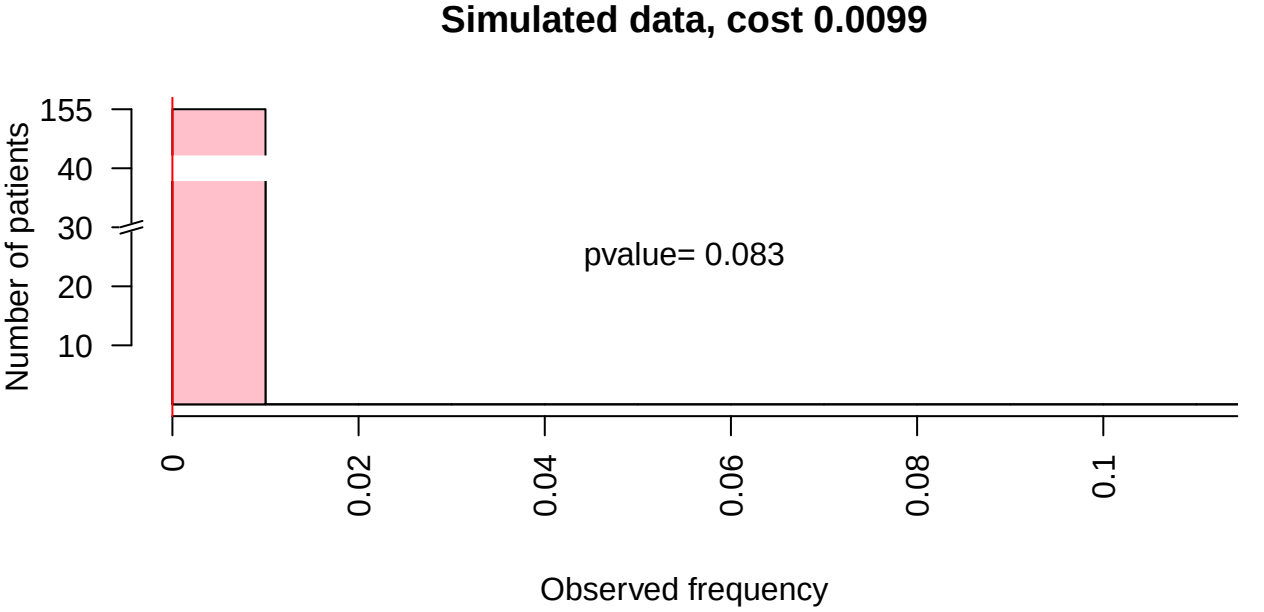

Single−SFS, site 726
Number of patients
117
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
0.24
0.26
0.28
0.3
0.32
0.34
0.36
0.38
0.4
0.42
Observed frequency

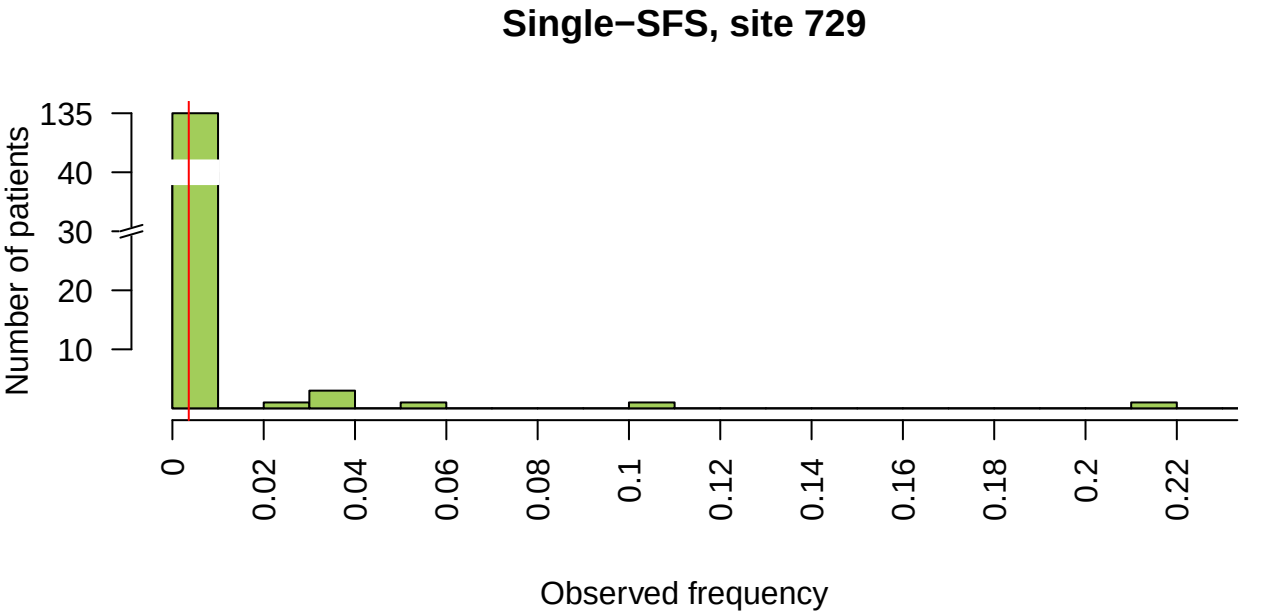

Simulated data, cost 0.0018
Number of patients
120
40
30
20
10
pvalue= 0.48
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
0.24
0.26
0.28
0.3
0.32
0.34
0.36
0.38
0.4
0.42
Observed frequency

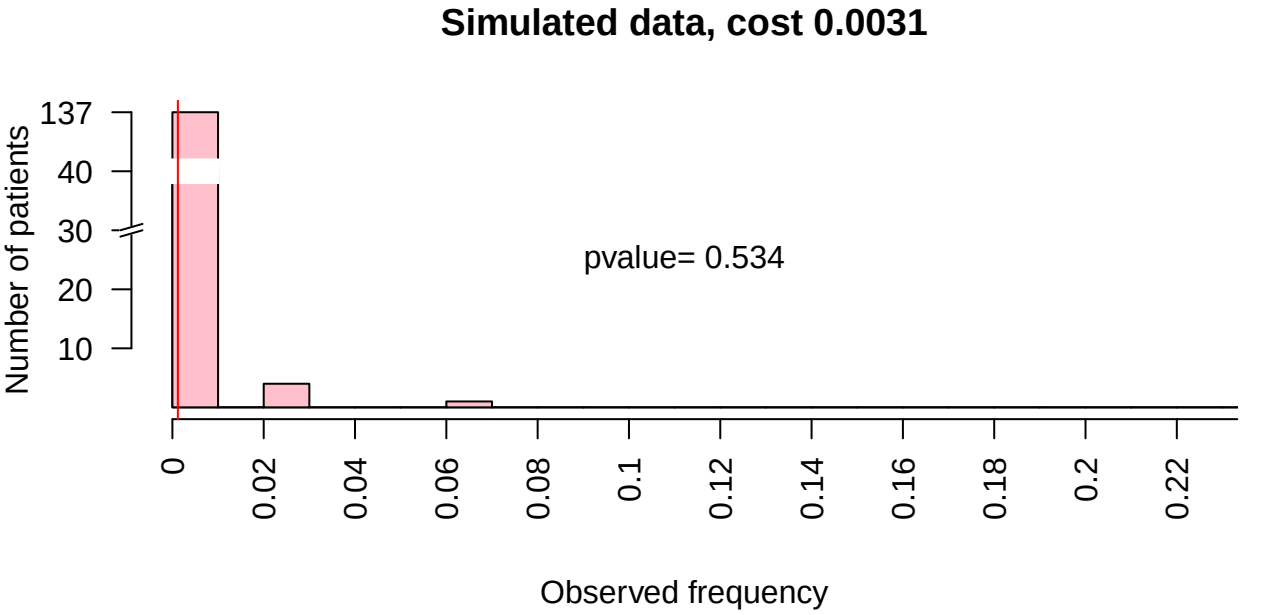

Single−SFS, site 727
Number of patients
151
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
Observed frequency

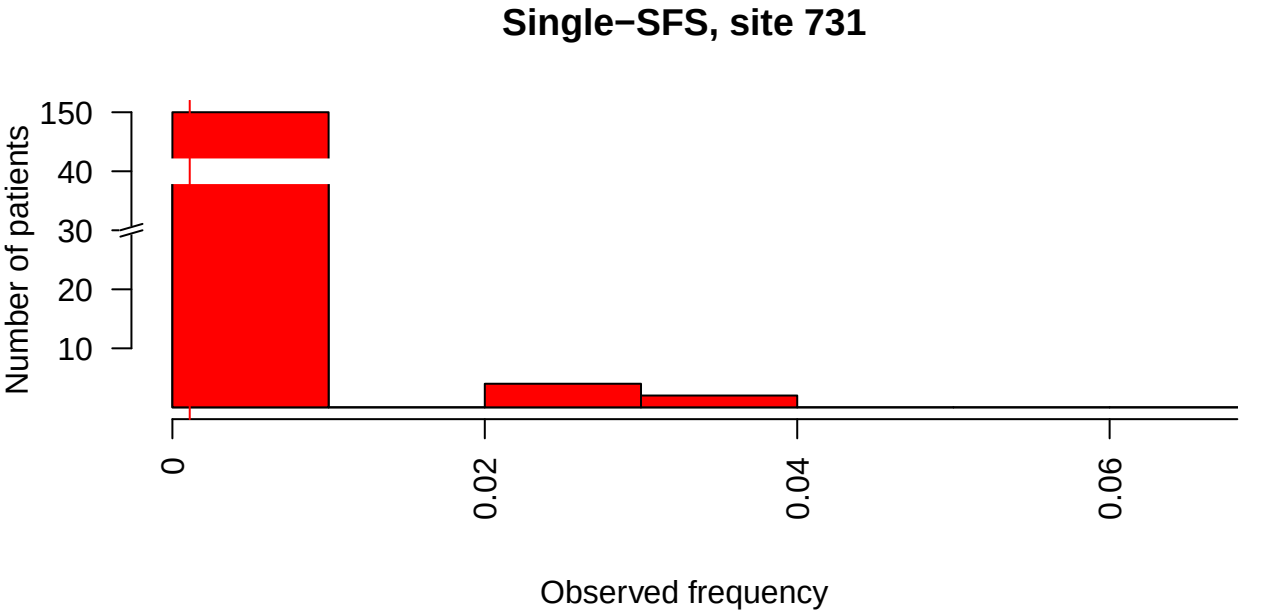

Simulated data, cost 0.0136
Number of patients
152
40
30
20
10
pvalue= 0.716
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
Observed frequency

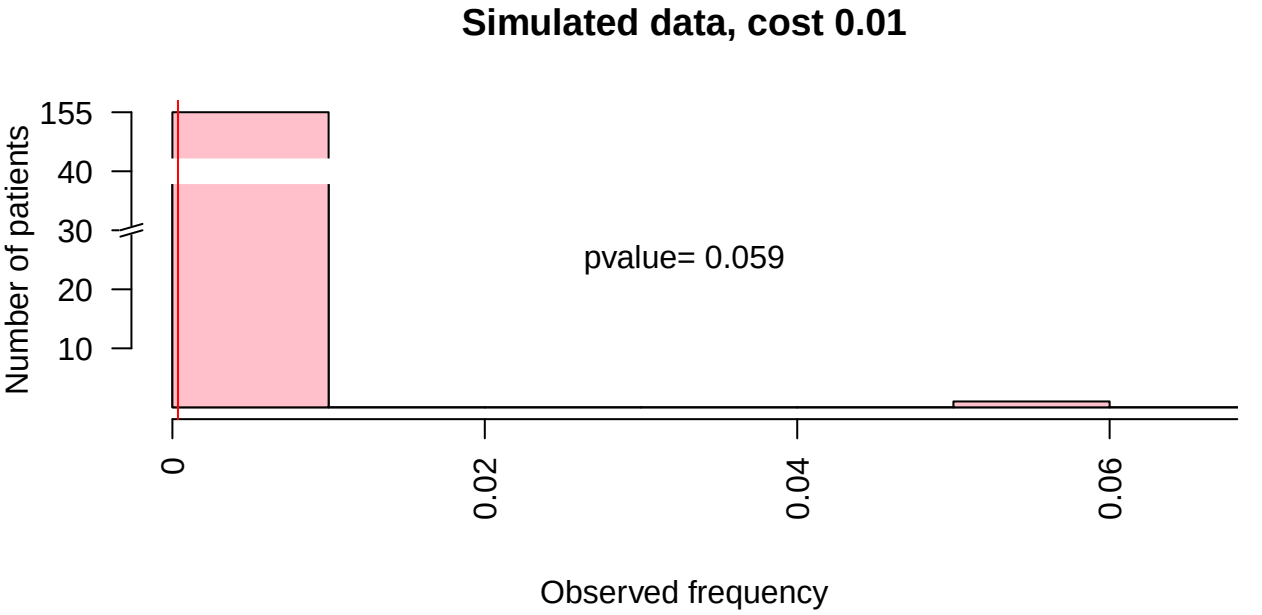

Single−SFS, site 728
Number of patients
152
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
Observed frequency

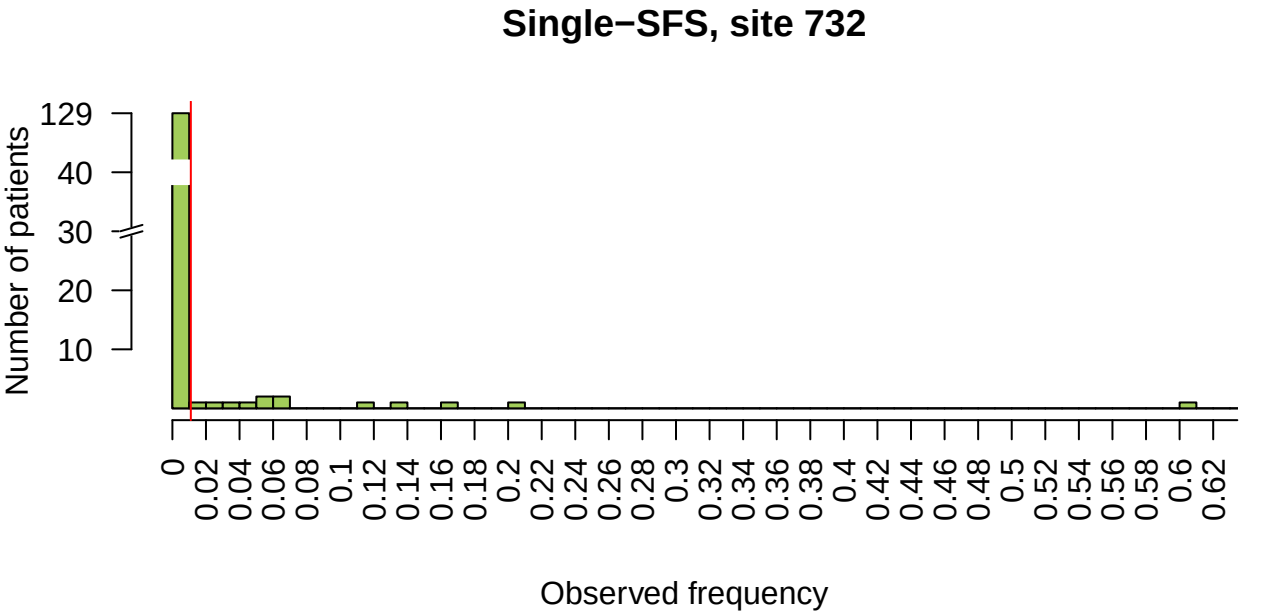

Simulated data, cost 0.0099
Number of patients
155
40
30
20
10
pvalue= 0.083
0
0.02
0.04
0.06
0.08
0.1
Observed frequency

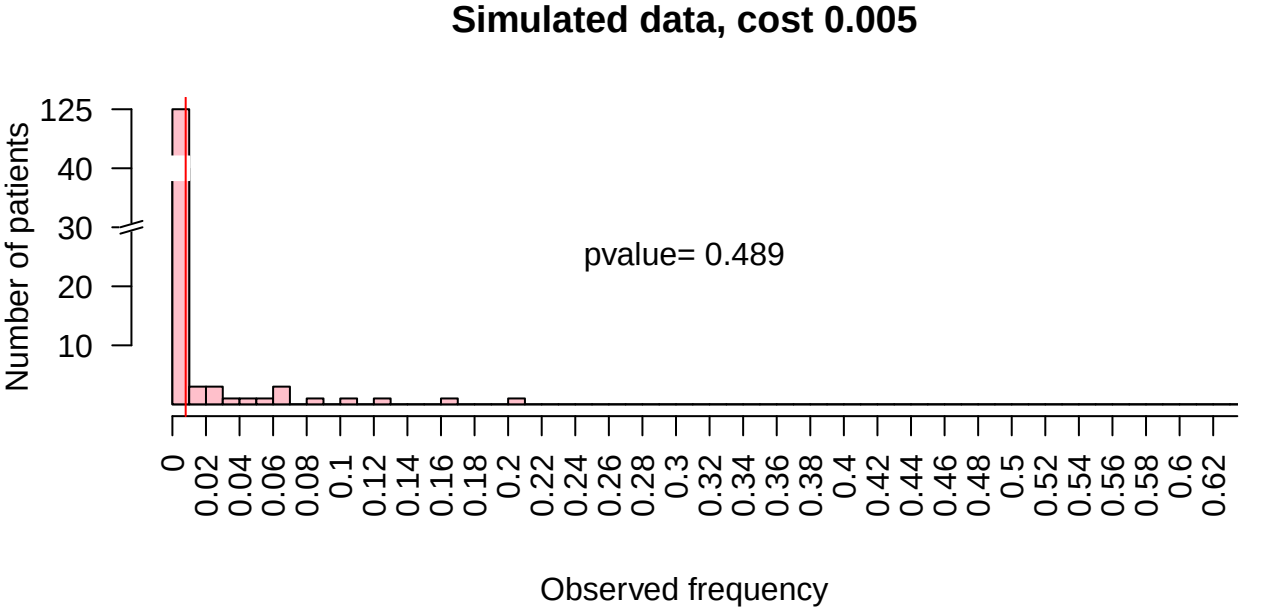

Single−SFS, site 729
Number of patients
135
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
Observed frequency

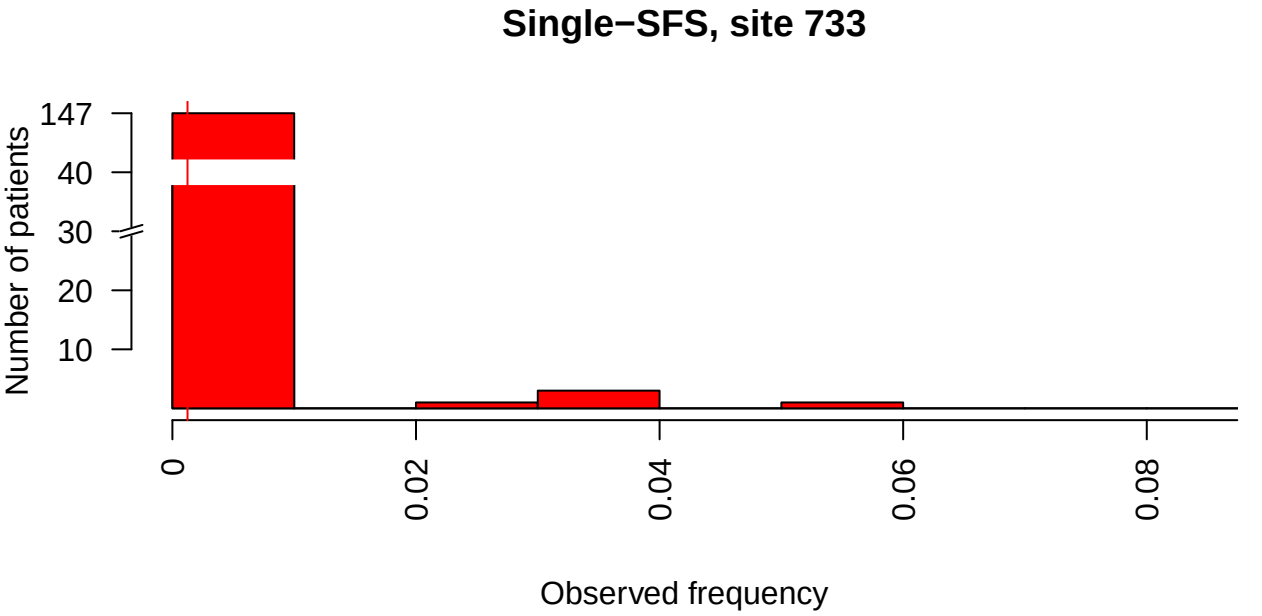

Simulated data, cost 0.0031
Number of patients
137
40
30
20
10
pvalue= 0.534
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
Observed frequency

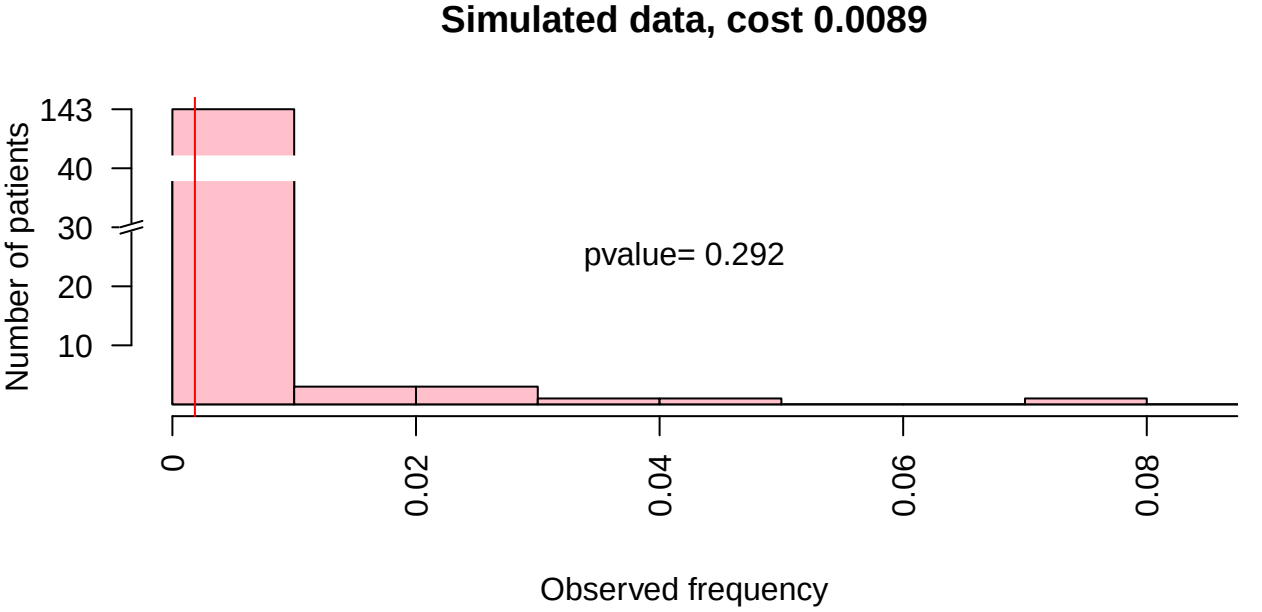

Single−SFS, site 731
Number of patients
150
40
30
20
10
0
0.02
0.04
0.06
Observed frequency

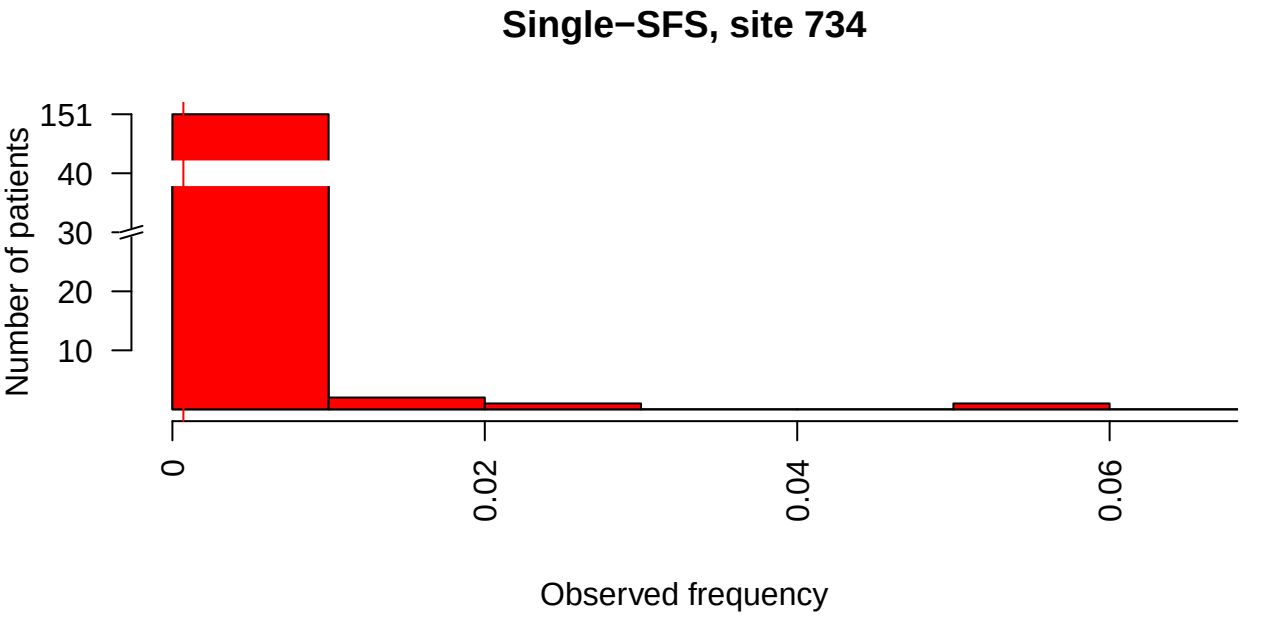

Simulated data, cost 0.01
Number of patients
155
40
30
20
10
pvalue= 0.059
0
0.02
0.04
0.06
Observed frequency

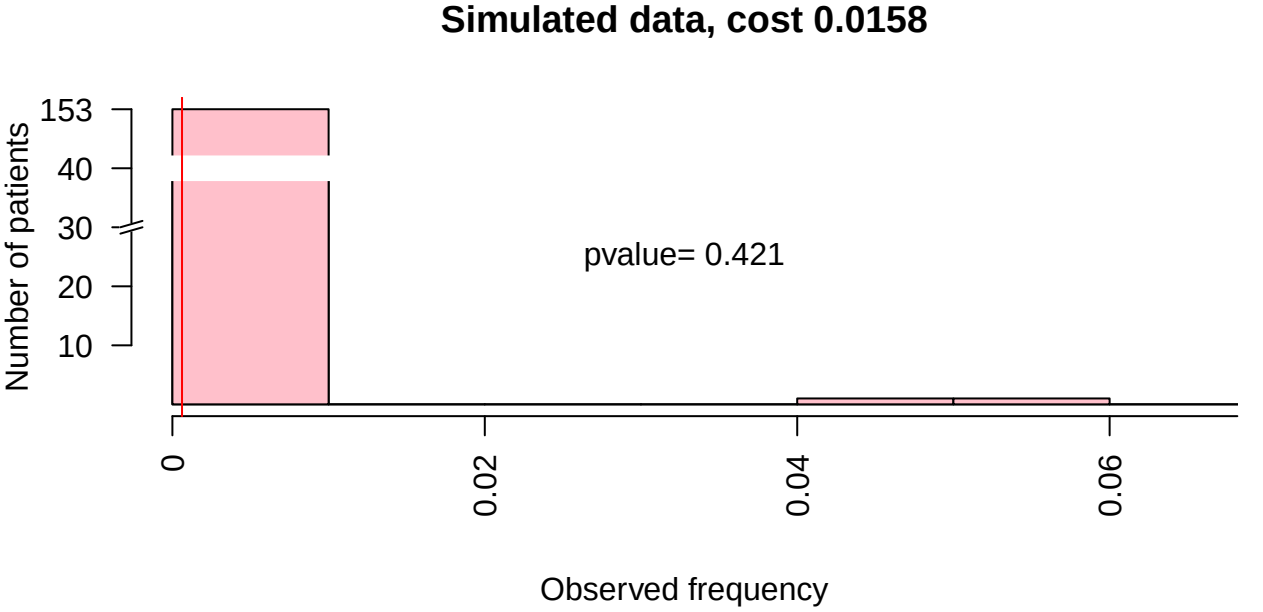

Single−SFS, site 732
Number of patients
129
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
0.24
0.26
0.28
0.3
0.32
0.34
0.36
0.38
0.4
0.42
0.44
0.46
0.48
0.5
0.52
0.54
0.56
0.58
0.6
0.62
Observed frequency

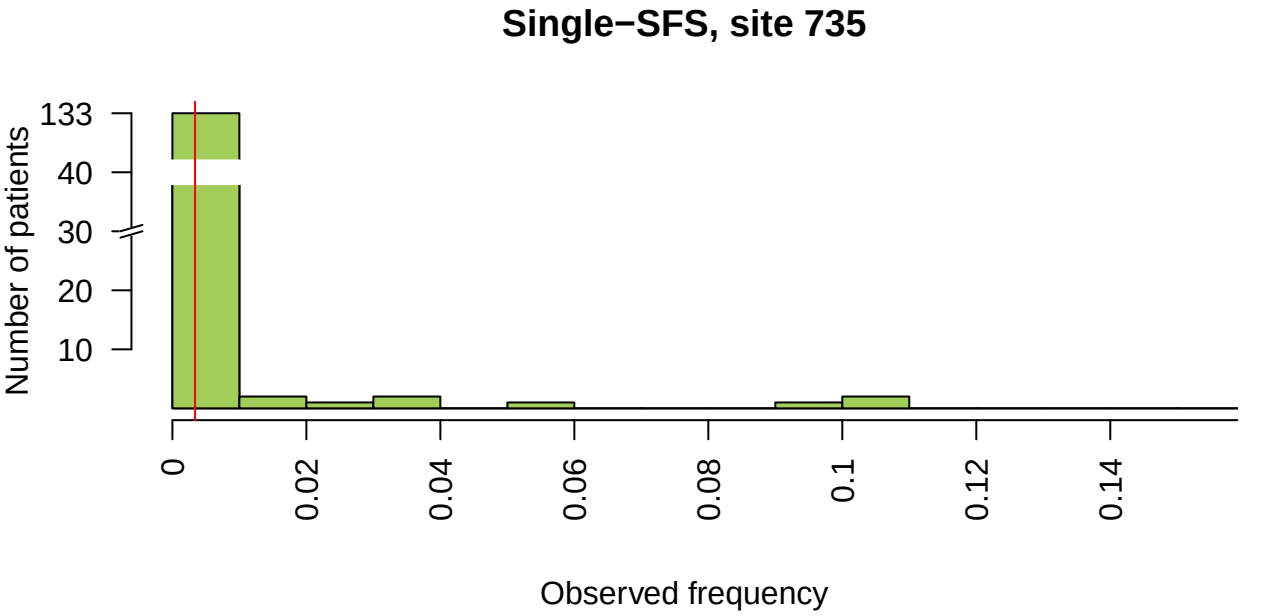

Simulated data, cost 0.005
Number of patients
125
40
30
20
10
pvalue= 0.489
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
0.24
0.26
0.28
0.3
0.32
0.34
0.36
0.38
0.4
0.42
0.44
0.46
0.48
0.5
0.52
0.54
0.56
0.58
0.6
0.62
Observed frequency

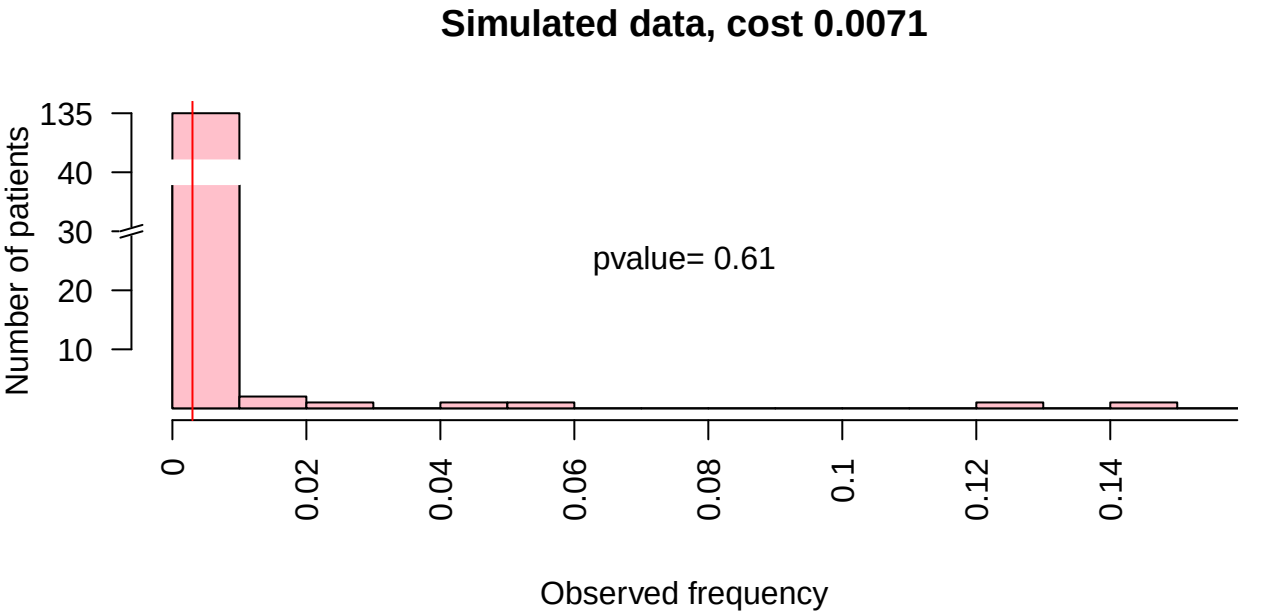

Single−SFS, site 733
147
40
30
20
10
Number of patients
0
0.02
0.04
0.06
0.08
Observed frequency

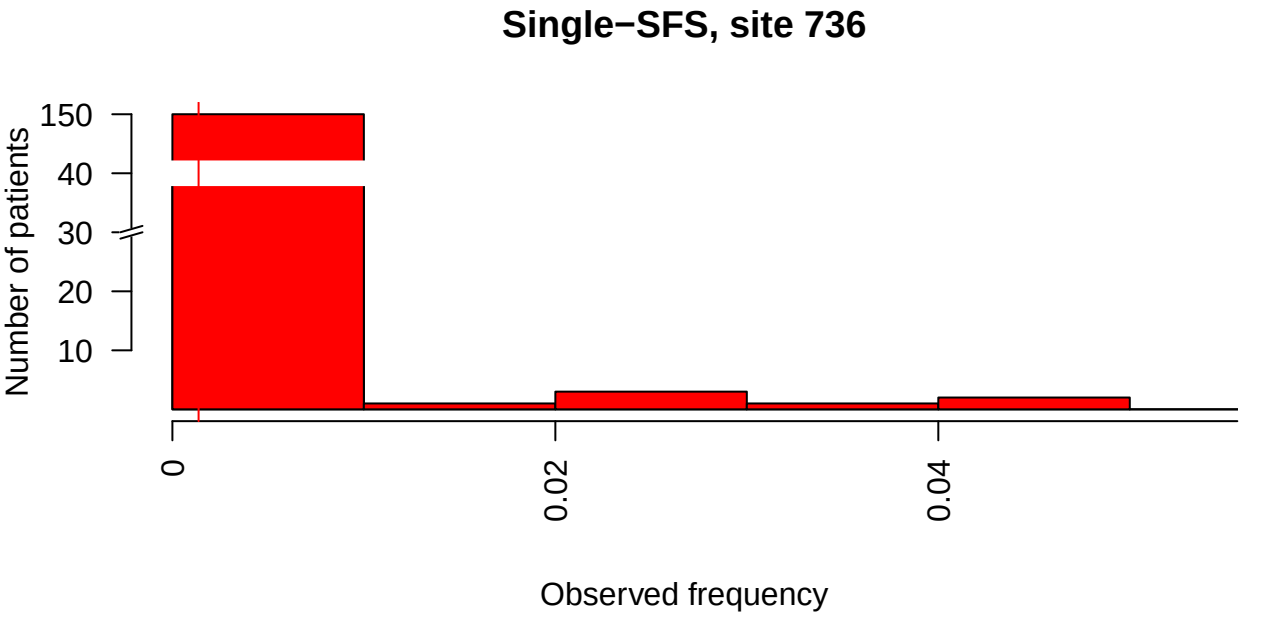

Simulated data, cost 0.0089
143
40
30
20
10
Number of patients
pvalue= 0.292
0
0.02
0.04
0.06
0.08
Observed frequency

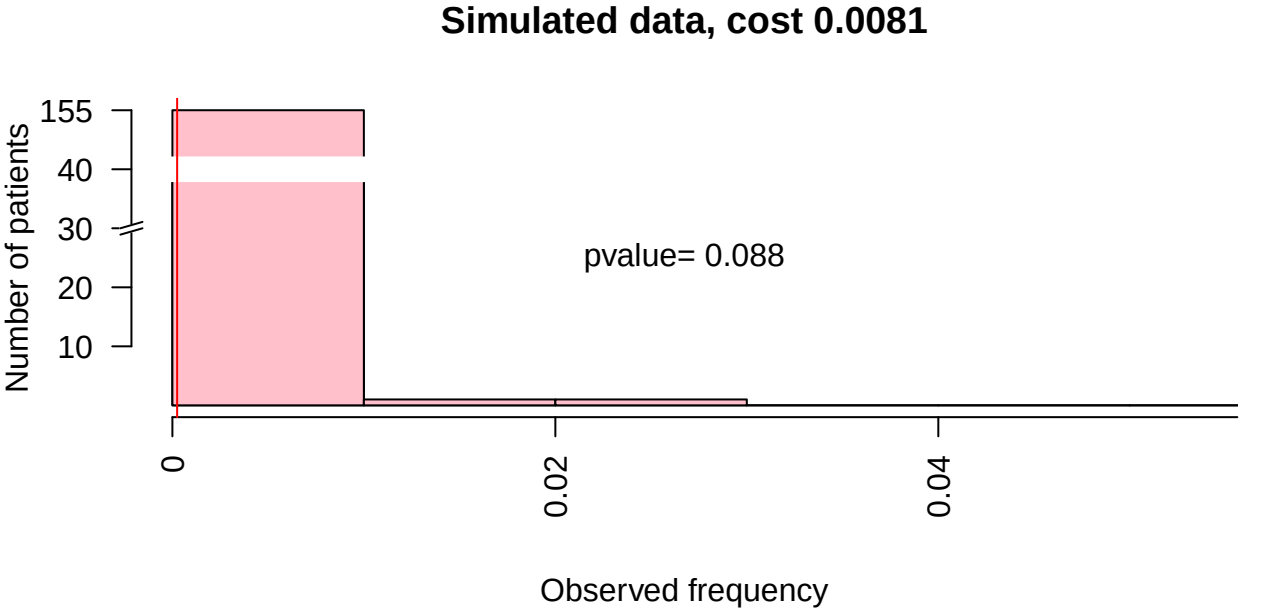

Single−SFS, site 734
Number of patients
151
40
30
20
10
0
0.02
0.04
0.06
Observed frequency

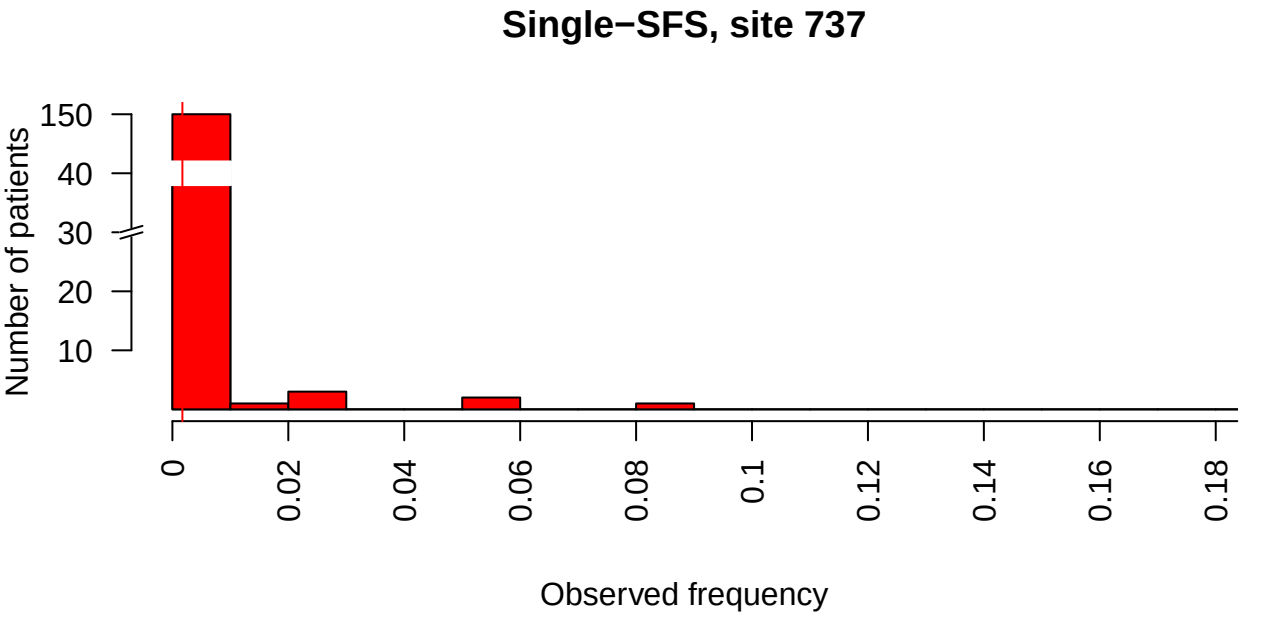

Simulated data, cost 0.0158
Number of patients
153
40
30
20
10
pvalue= 0.421
0
0.02
0.04
0.06
Observed frequency

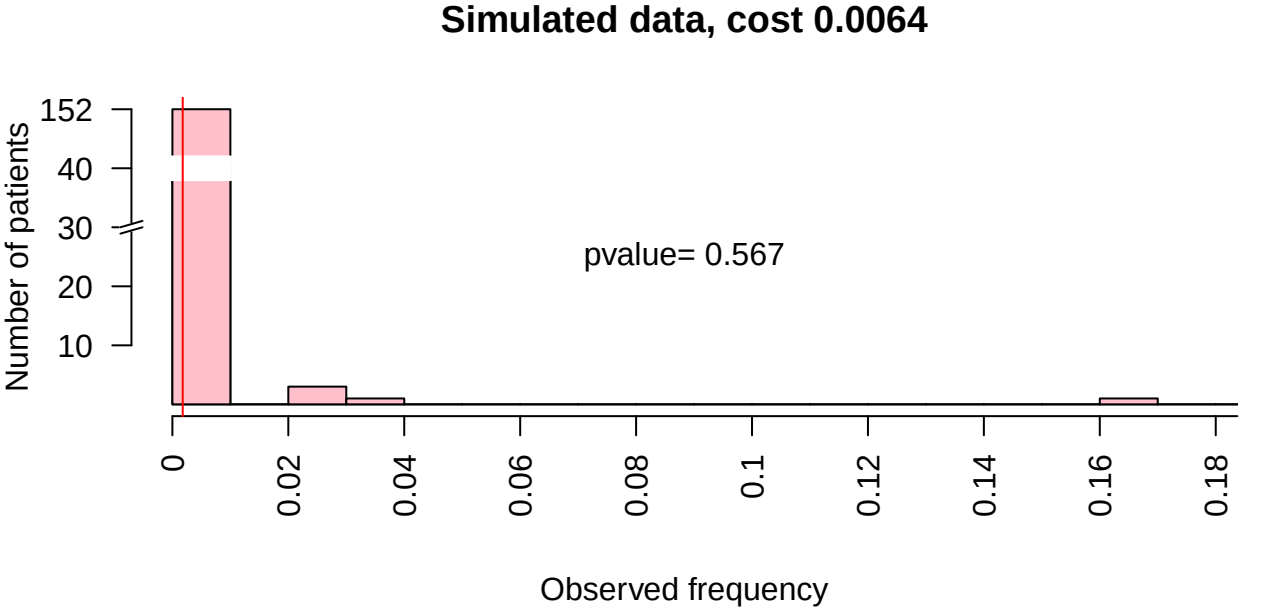

Single−SFS, site 735
Number of patients
133
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
Observed frequency

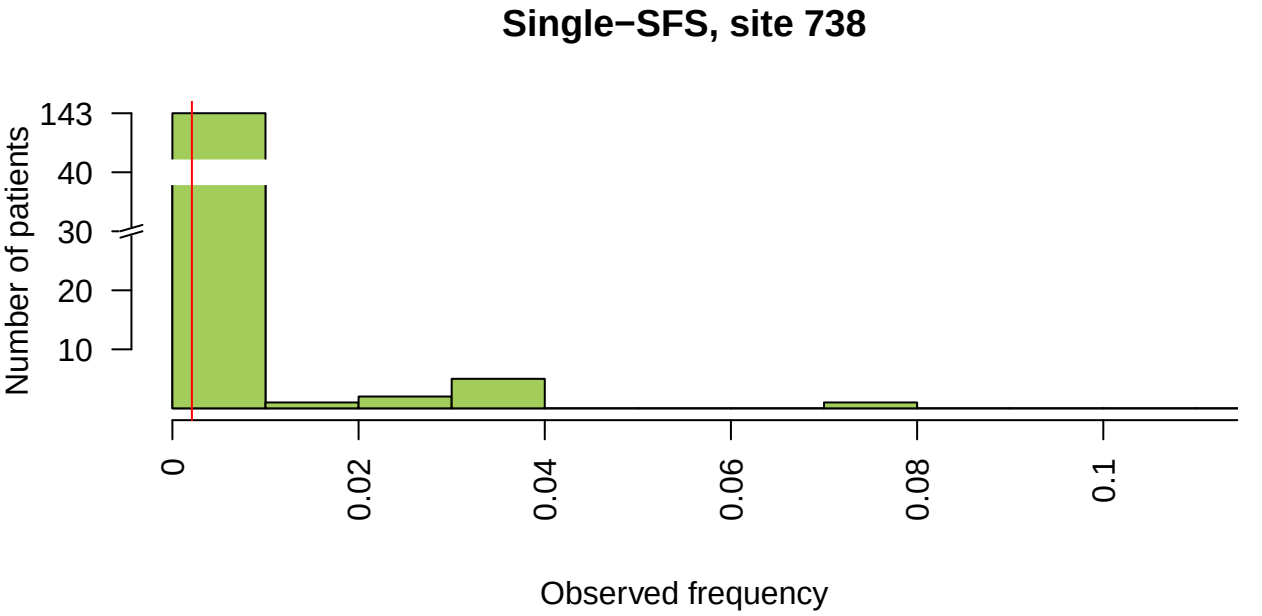

Simulated data, cost 0.0071
Number of patients
135
40
30
20
10
pvalue= 0.61
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
Observed frequency

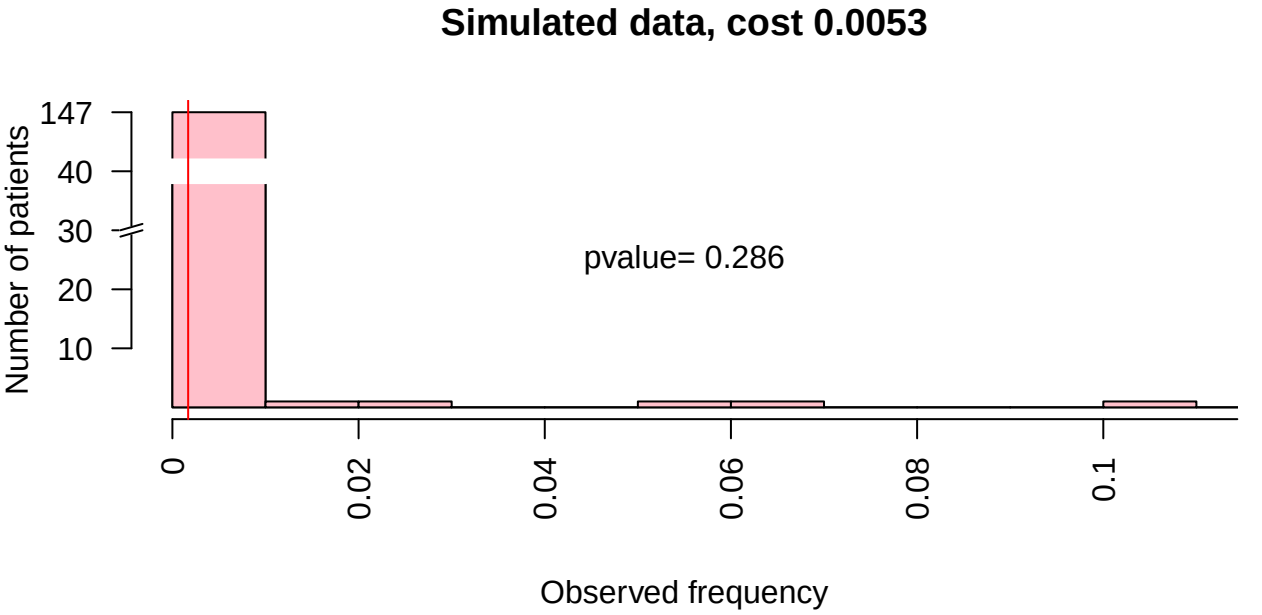

Single−SFS, site 736
Number of patients
150
40
30
20
10
0
0.02
0.04
Observed frequency

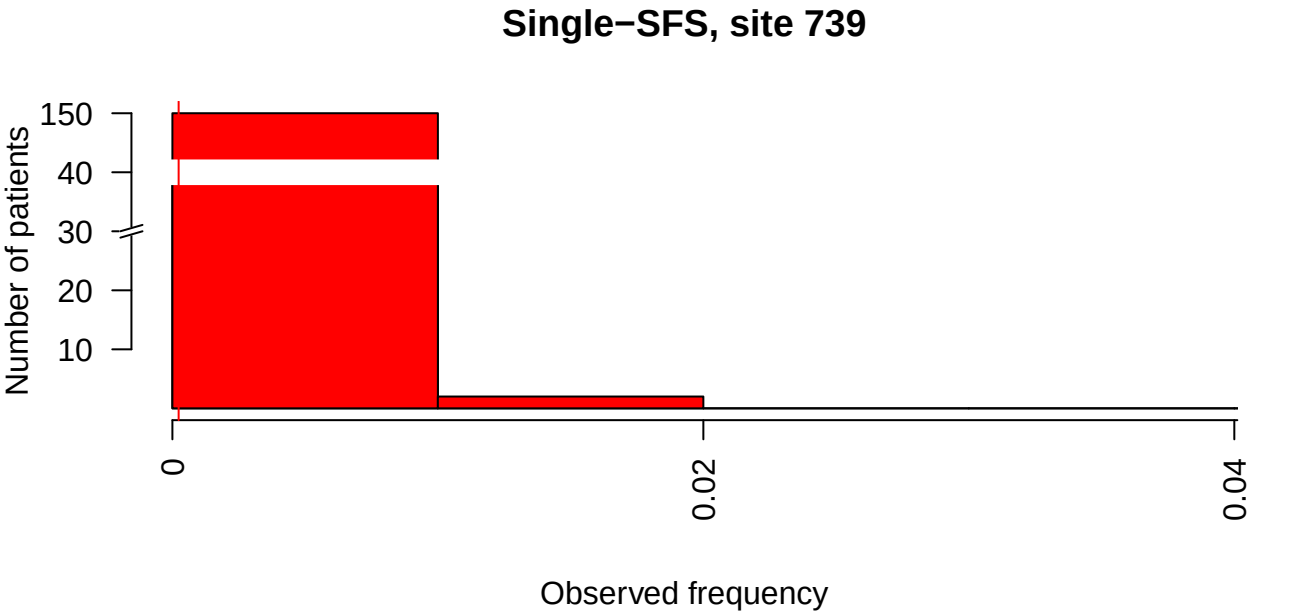

Simulated data, cost 0.0081
Number of patients
155
40
30
20
10
pvalue= 0.088
0
0.02
0.04
Observed frequency

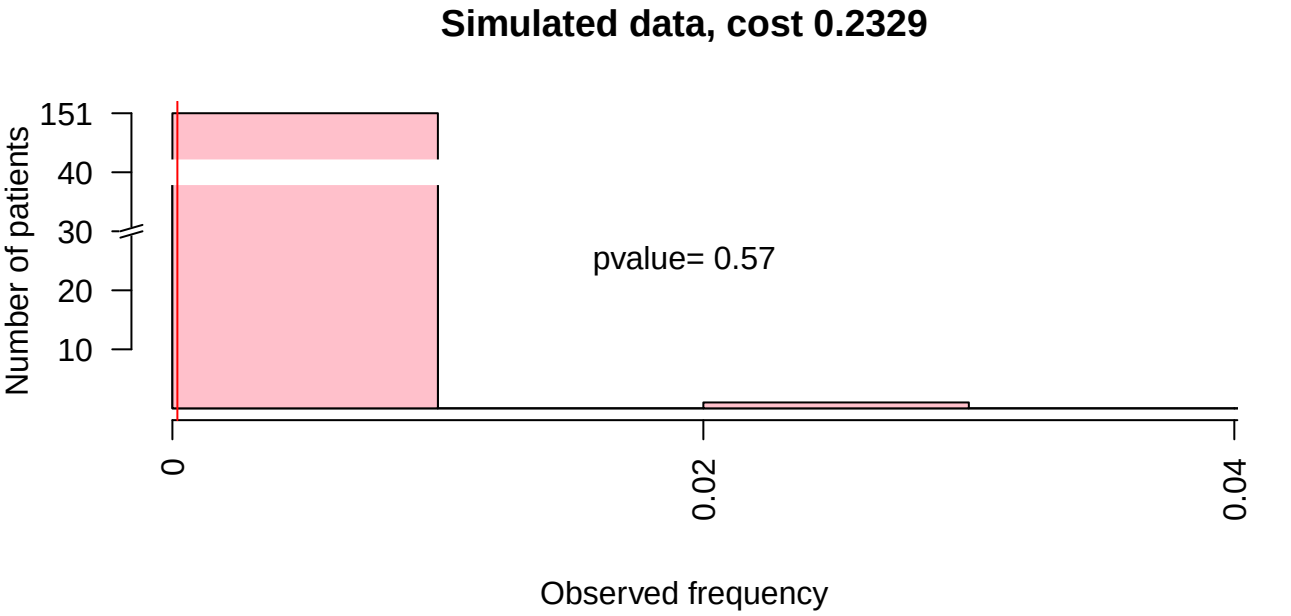

Single−SFS, site 737
Number of patients
150
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
Observed frequency

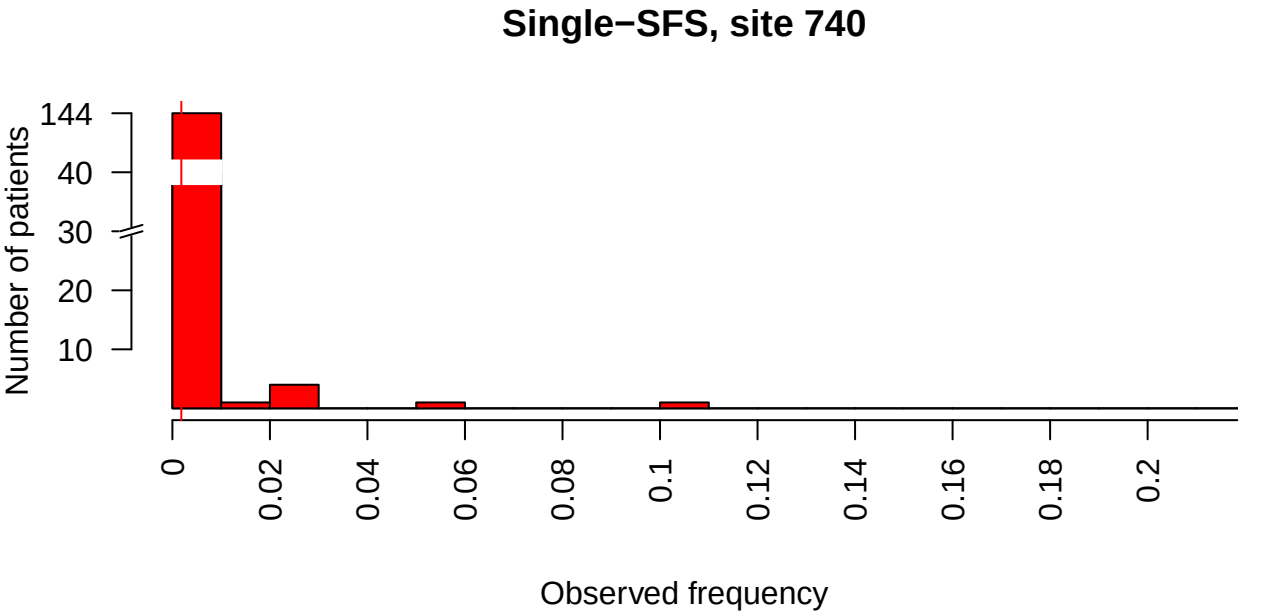

Simulated data, cost 0.0064
Number of patients
152
40
30
20
10
pvalue= 0.567
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
Observed frequency

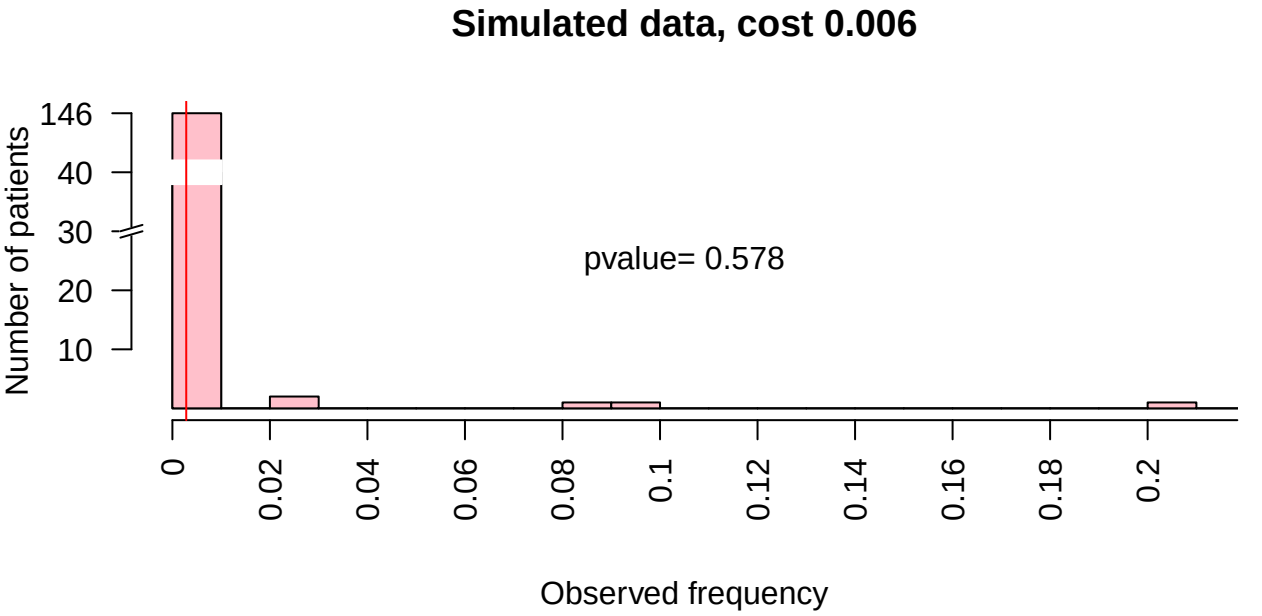

Single−SFS, site 738
Number of patients
143
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
Observed frequency

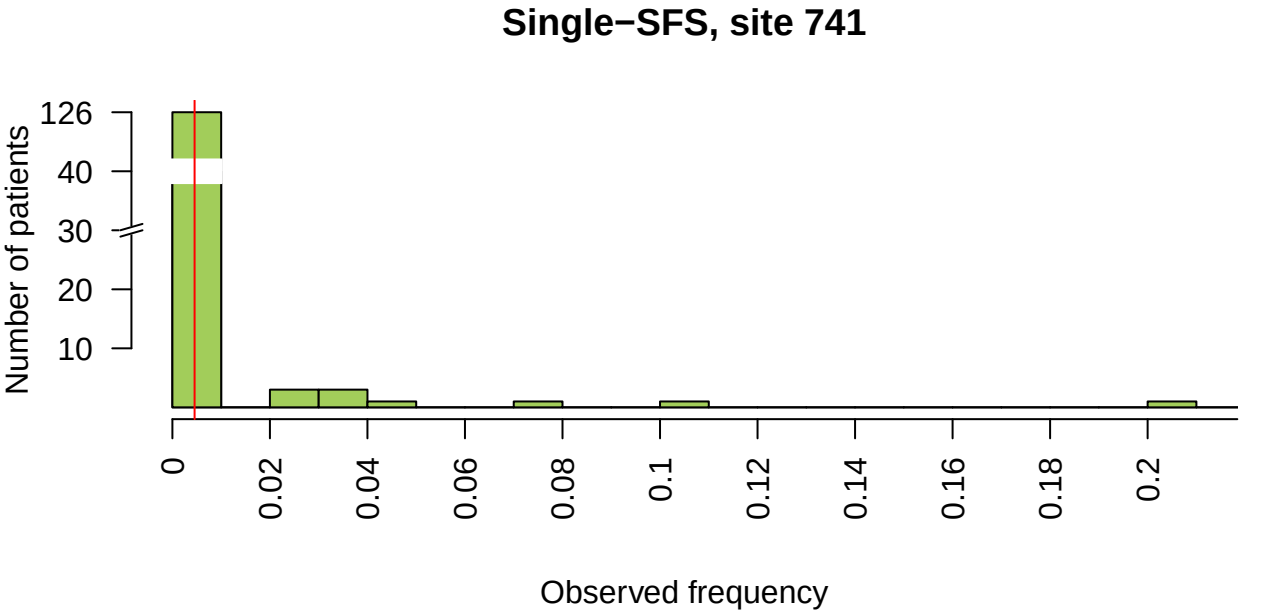

Simulated data, cost 0.0053
Number of patients
147
40
30
20
10
pvalue= 0.286
0
0.02
0.04
0.06
0.08
0.1
Observed frequency

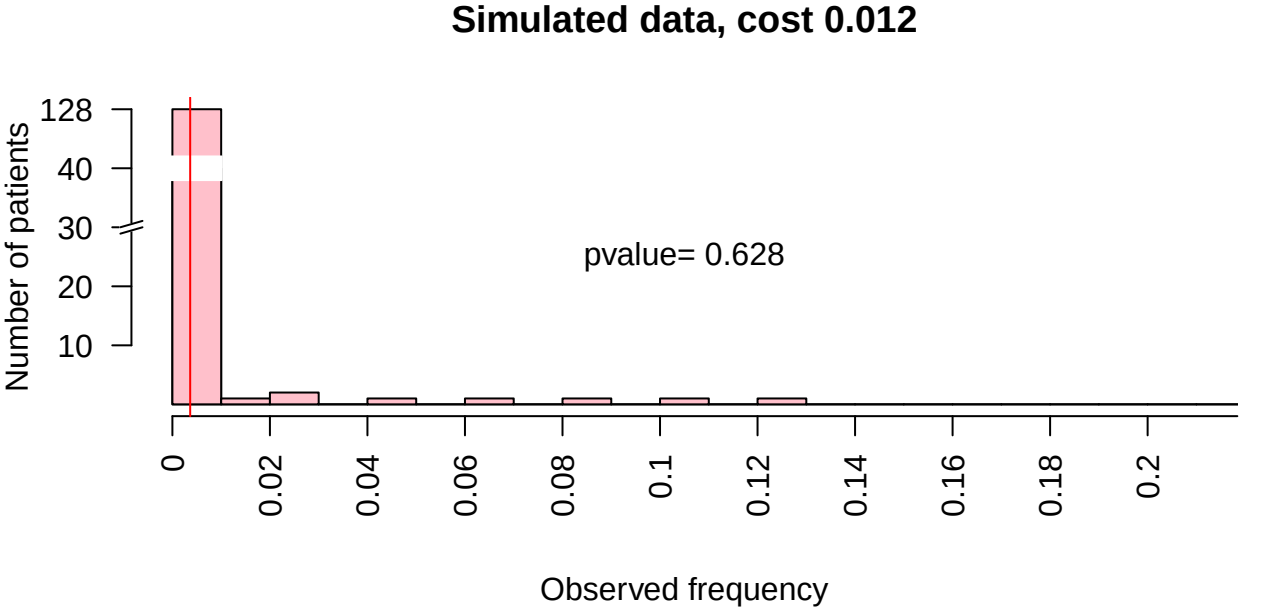

Single−SFS, site 739
Number of patients
150
40
30
20
10
0
0.02
0.04
Observed frequency

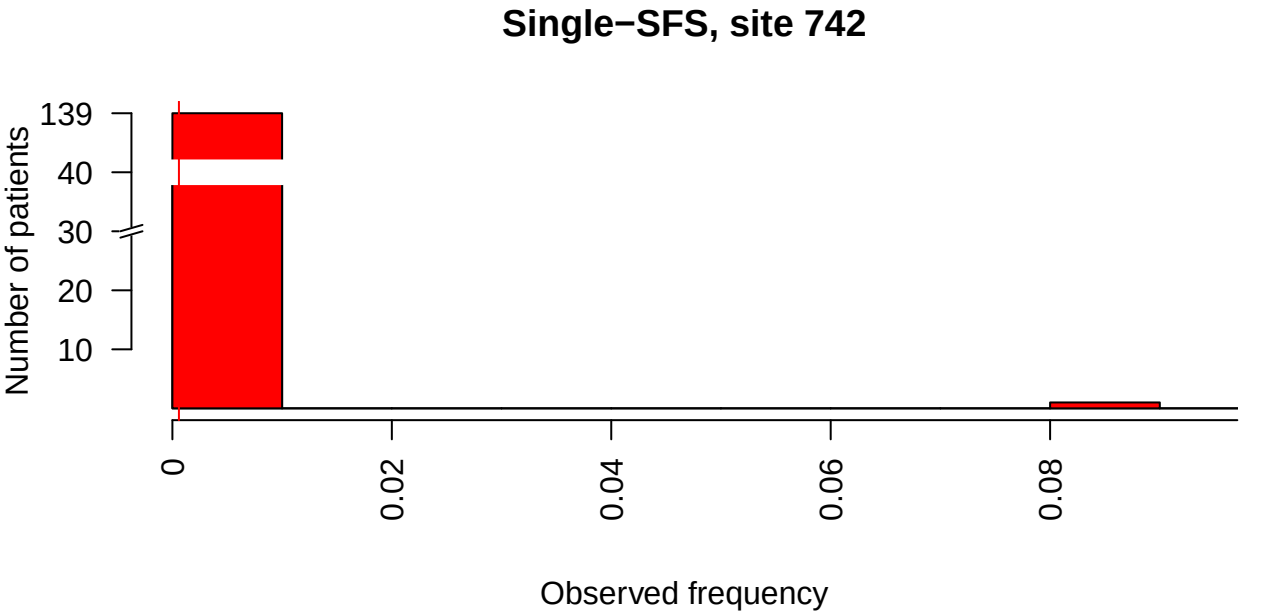

Simulated data, cost 0.2329
Number of patients
151
40
30
20
10
pvalue= 0.57
0
0.02
0.04
Observed frequency

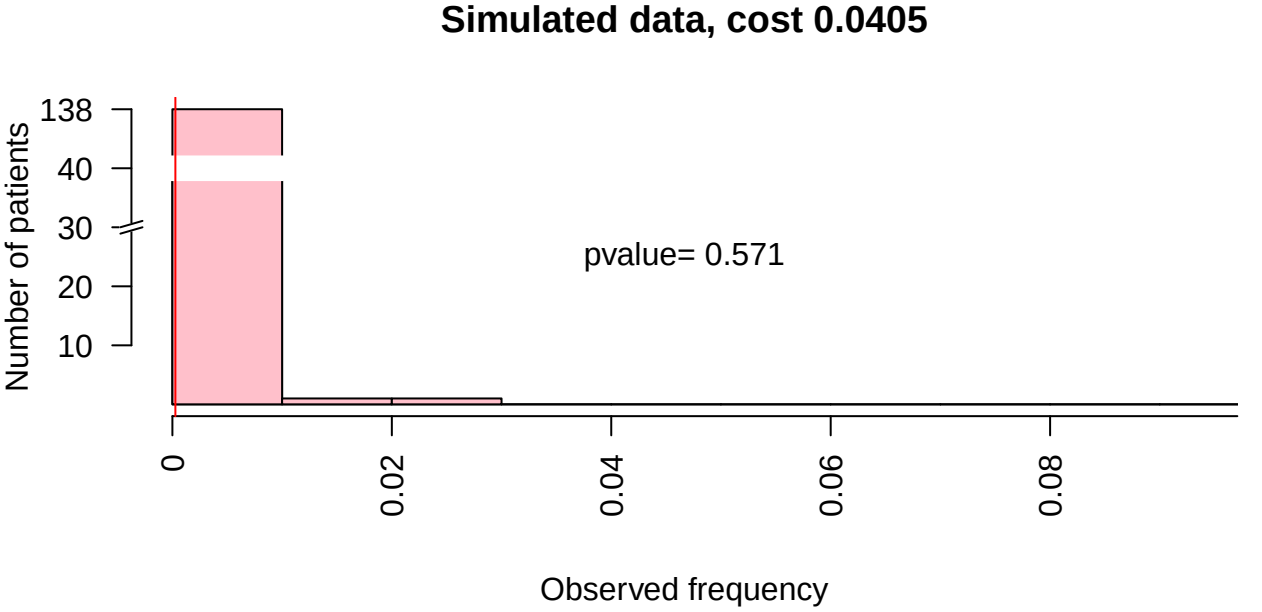

Single−SFS, site 740
Number of patients
144
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
Observed frequency

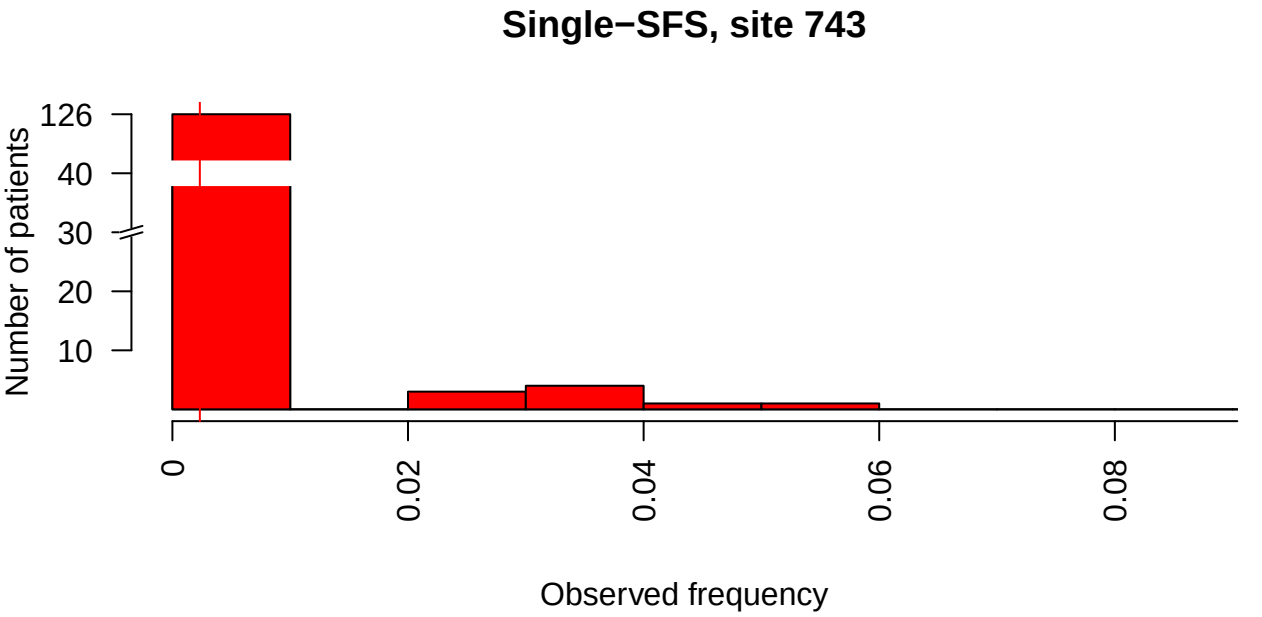

Simulated data, cost 0.006
Number of patients
146
40
30
20
10
pvalue= 0.578
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
Observed frequency

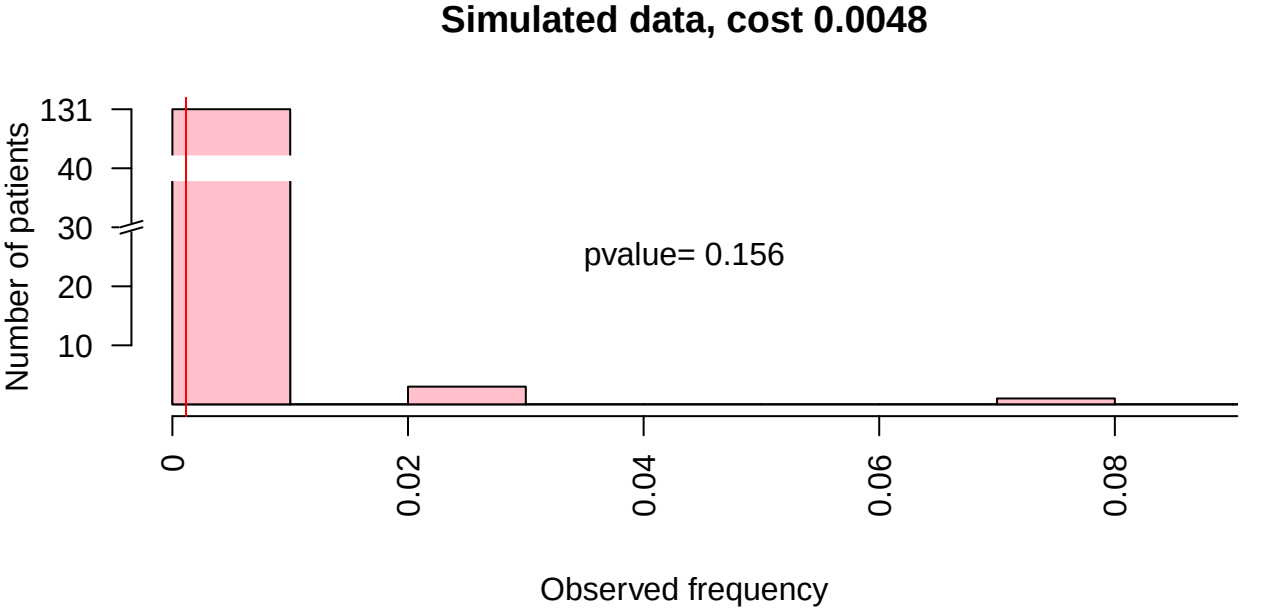

Single−SFS, site 741
Number of patients
126
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
Observed frequency

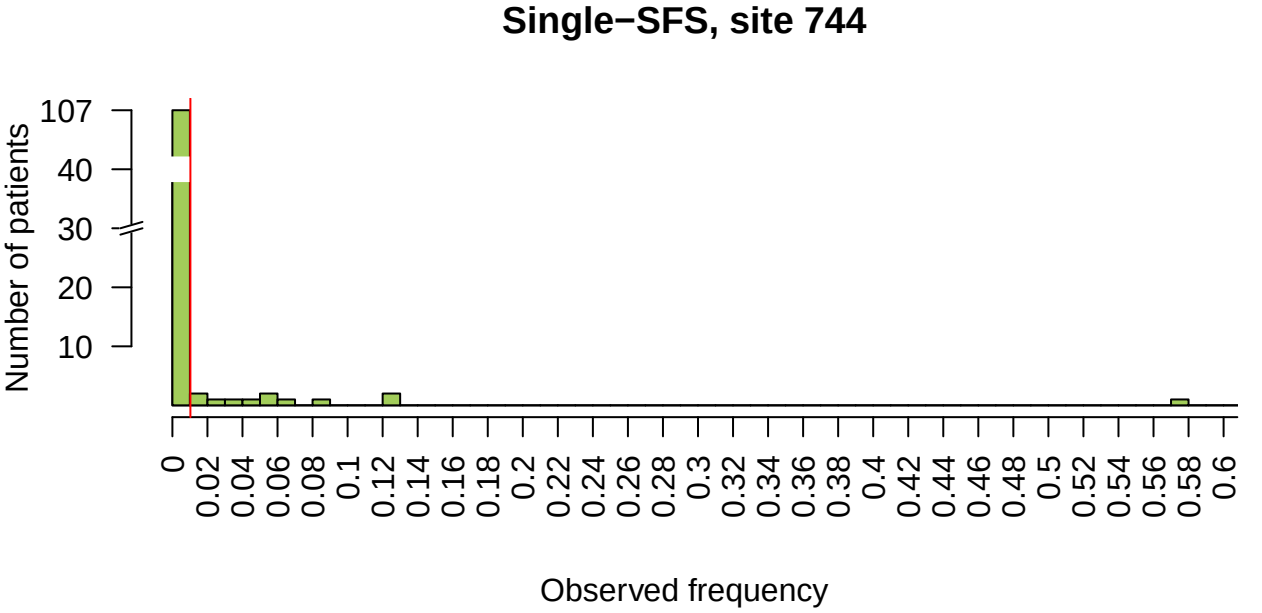

Simulated data, cost 0.012
Number of patients
128
40
30
20
10
pvalue= 0.628
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
Observed frequency

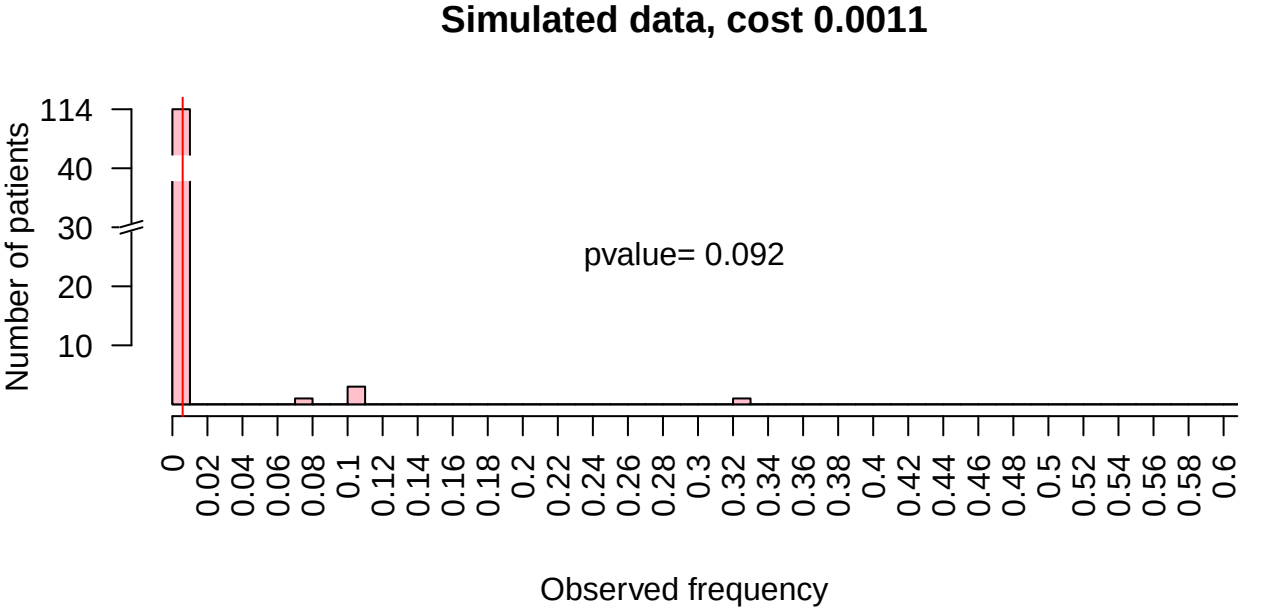

Single−SFS, site 742
Number of patients
139
40
30
20
10
0
0.02
0.04
0.06
0.08
Observed frequency

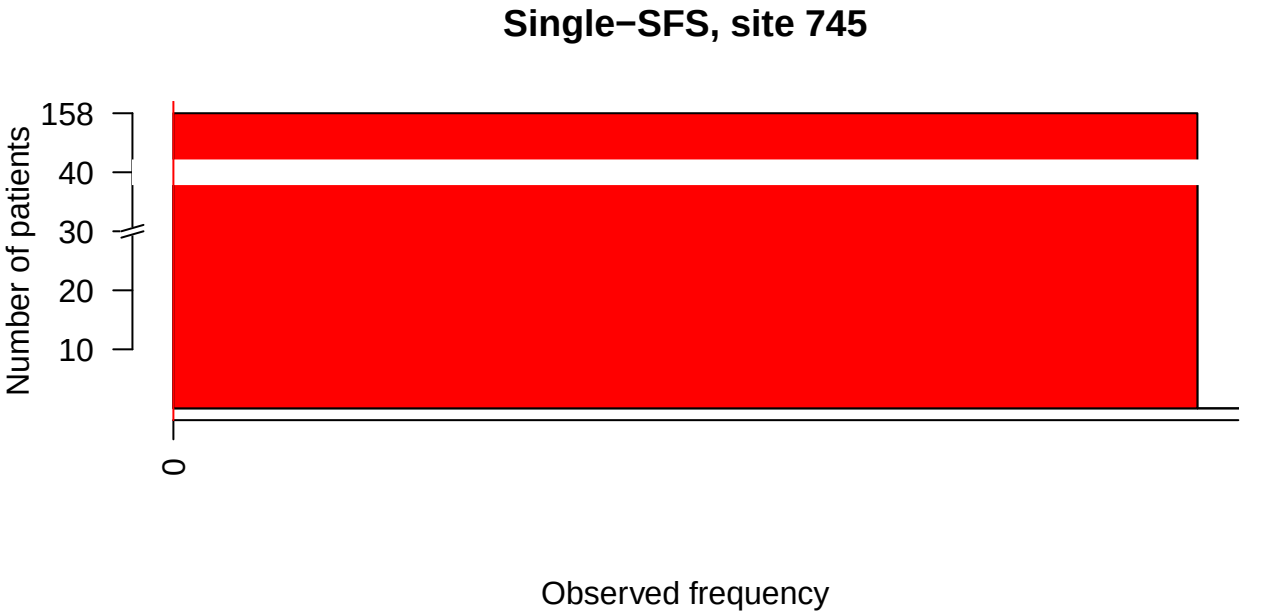

Simulated data, cost 0.0405
Number of patients
138
40
30
20
10
pvalue= 0.571
0
0.02
0.04
0.06
0.08
Observed frequency

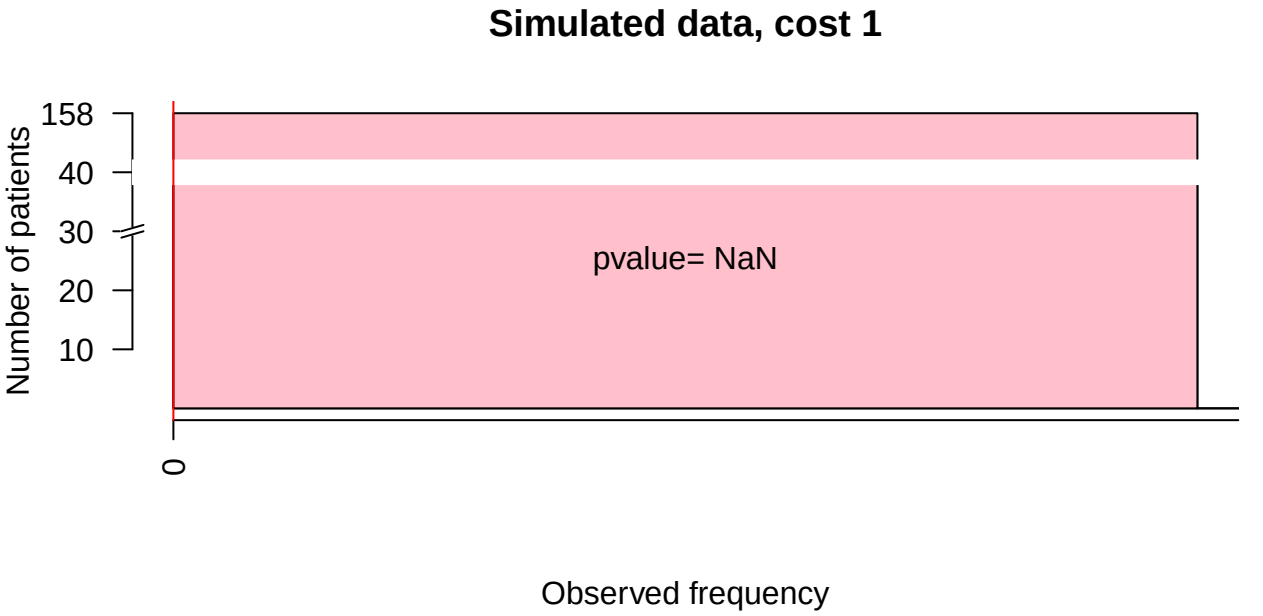

Single−SFS, site 743
Number of patients
126
40
30
20
10
0
0.02
0.04
0.06
0.08
Observed frequency

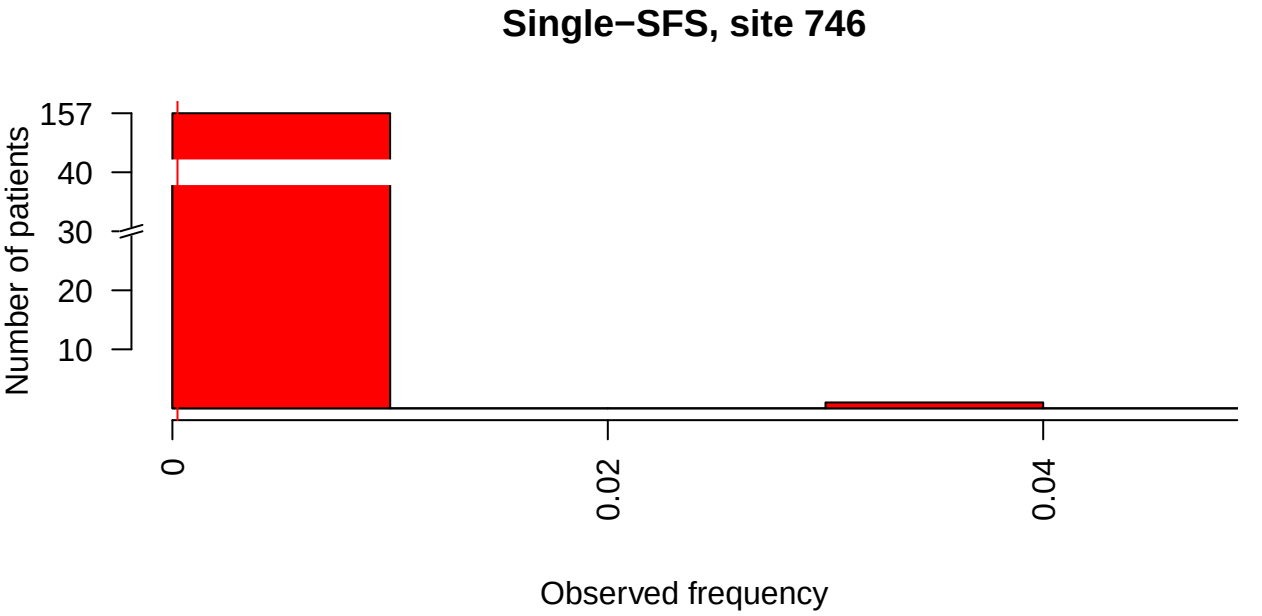

Simulated data, cost 0.0048
Number of patients
131
40
30
20
10
pvalue= 0.156
0
0.02
0.04
0.06
0.08
Observed frequency

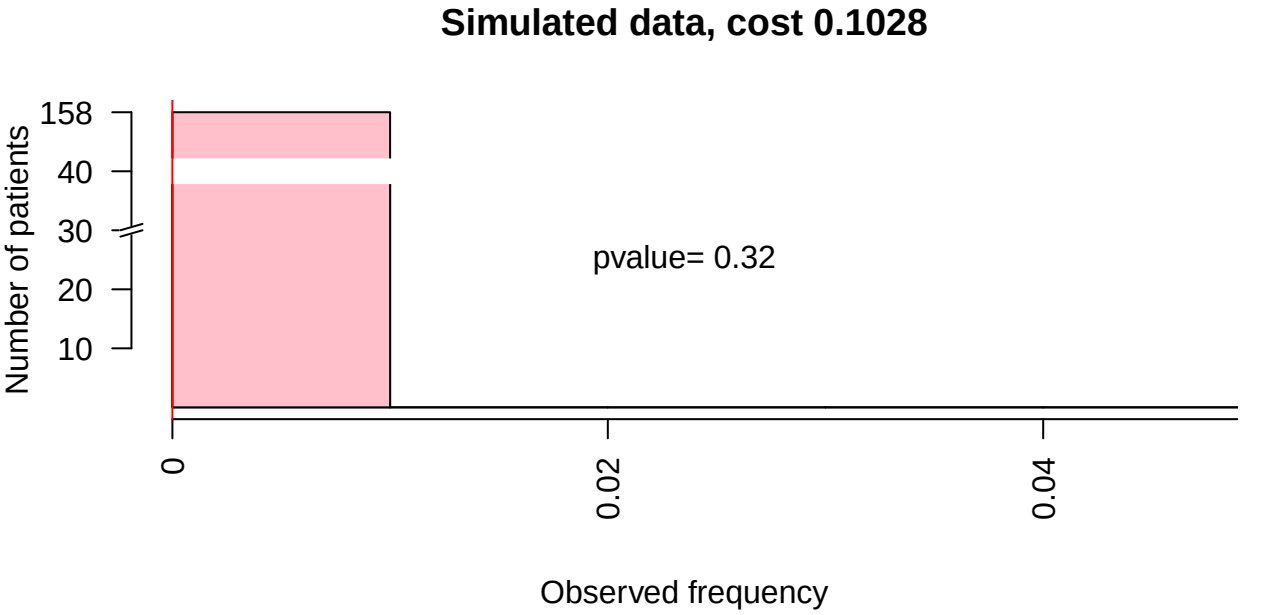

Single−SFS, site 744
Number of patients
107
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
0.24
0.26
0.28
0.3
0.32
0.34
0.36
0.38
0.4
0.42
0.44
0.46
0.48
0.5
0.52
0.54
0.56
0.58
0.6
Observed frequency

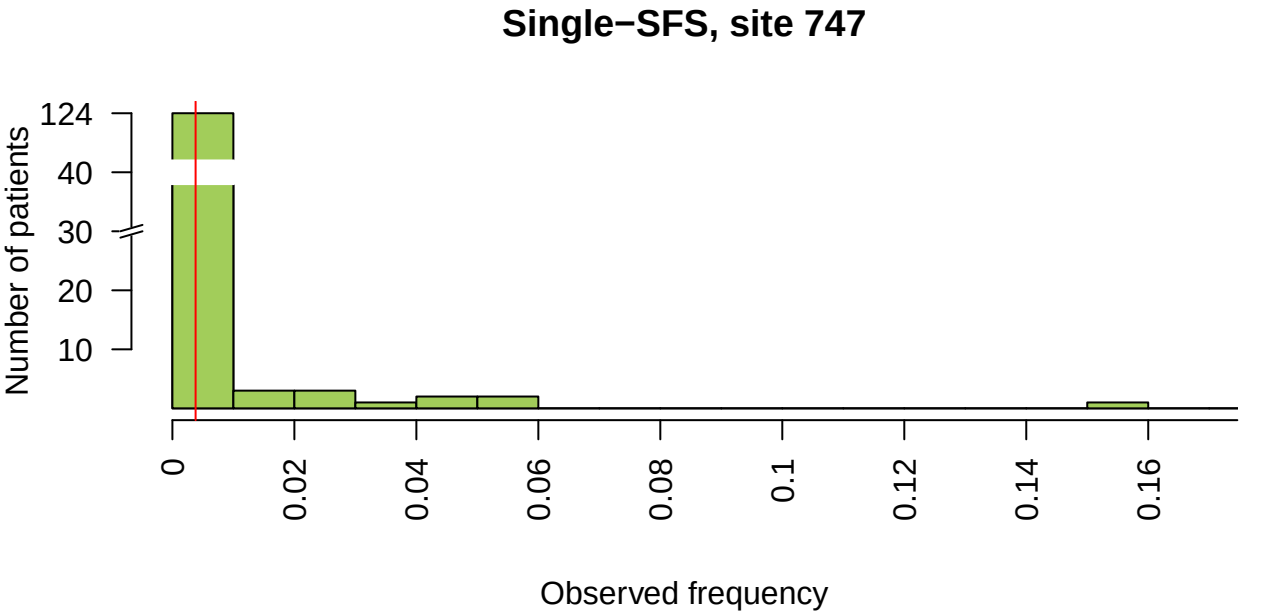

Simulated data, cost 0.0011
Number of patients
114
40
30
20
10
pvalue= 0.092
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
0.24
0.26
0.28
0.3
0.32
0.34
0.36
0.38
0.4
0.42
0.44
0.46
0.48
0.5
0.52
0.54
0.56
0.58
0.6
Observed frequency

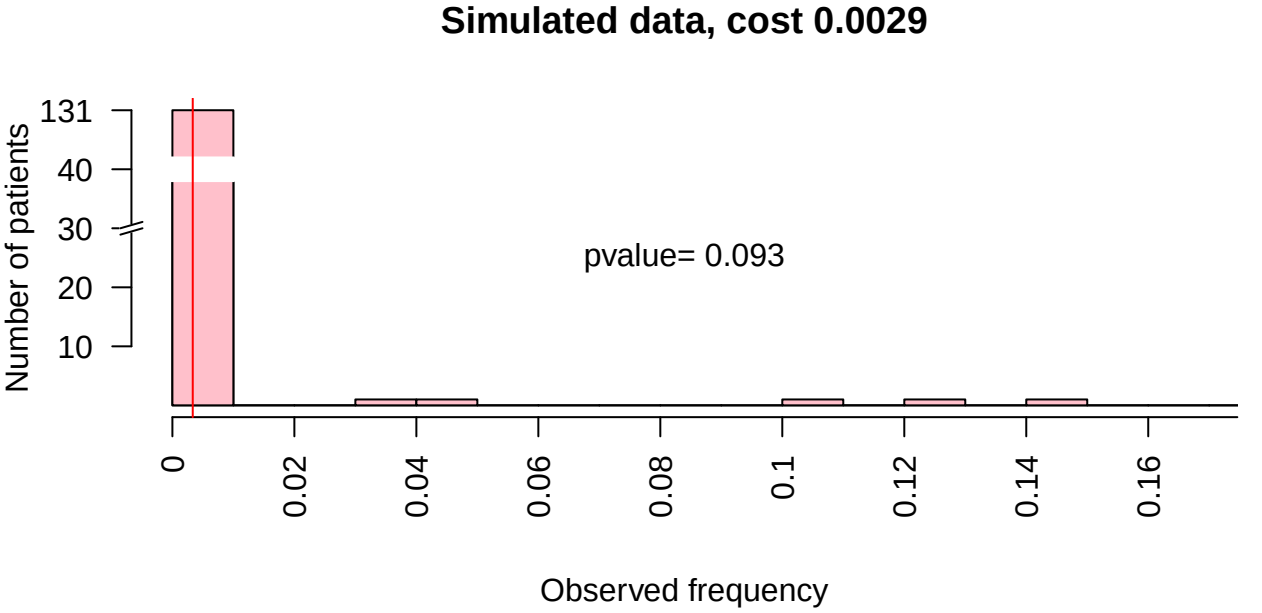

Single−SFS, site 745
Number of patients
158
40
30
20
10
0
Observed frequency

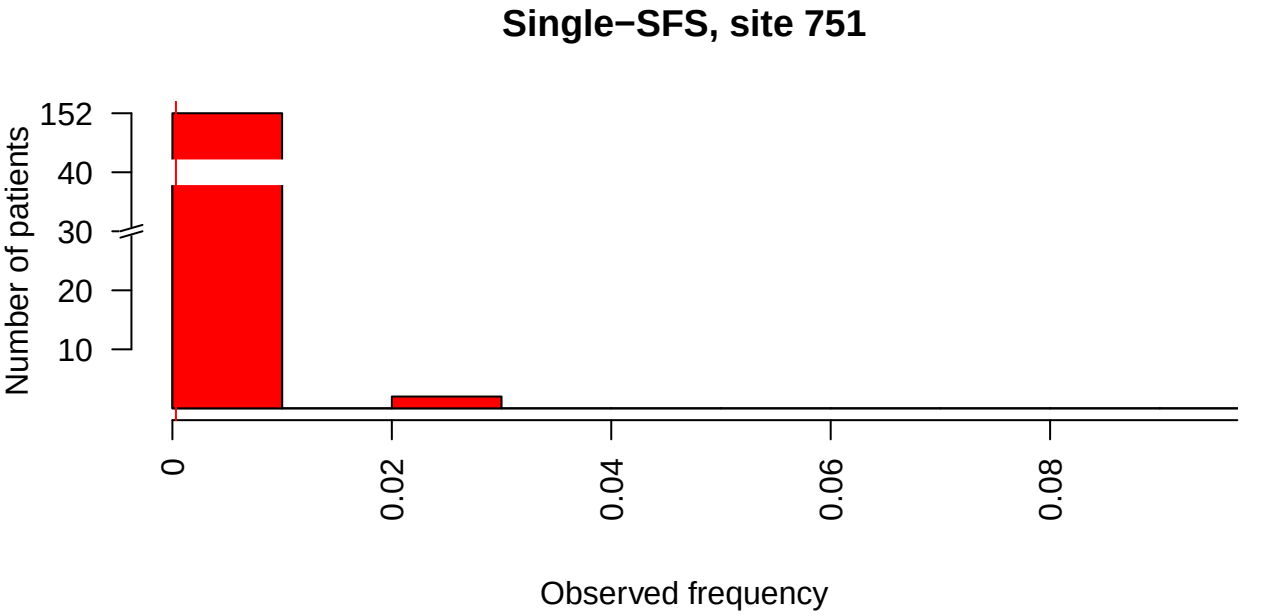

Simulated data, cost 1
Number of patients
158
40
30
20
10
0
pvalue= NaN
Observed frequency

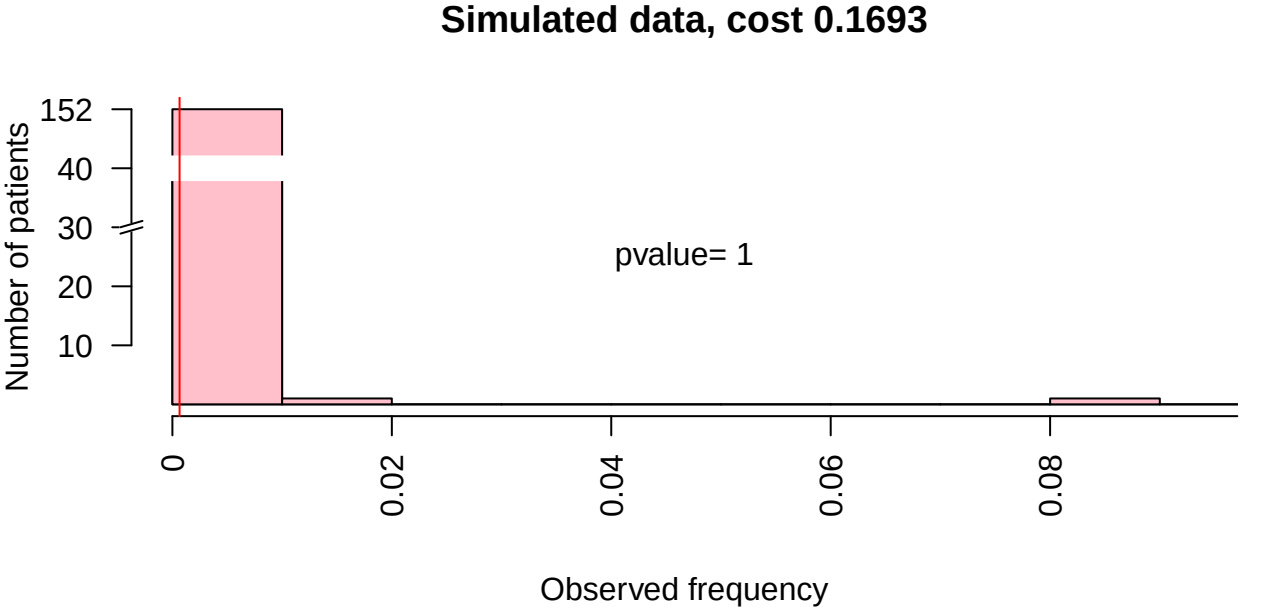

Single−SFS, site 746
Number of patients
157
40
30
20
10
0
0.02
0.04
Observed frequency

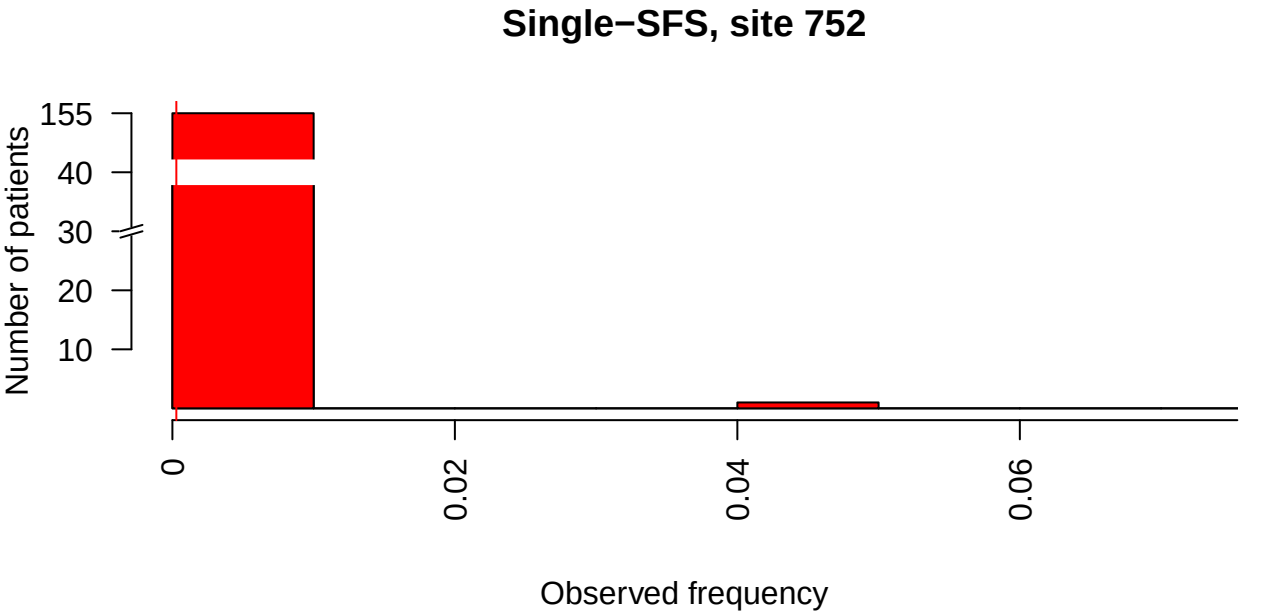

Simulated data, cost 0.1028
Number of patients
158
40
30
20
10
pvalue= 0.32
0
0.02
0.04
Observed frequency

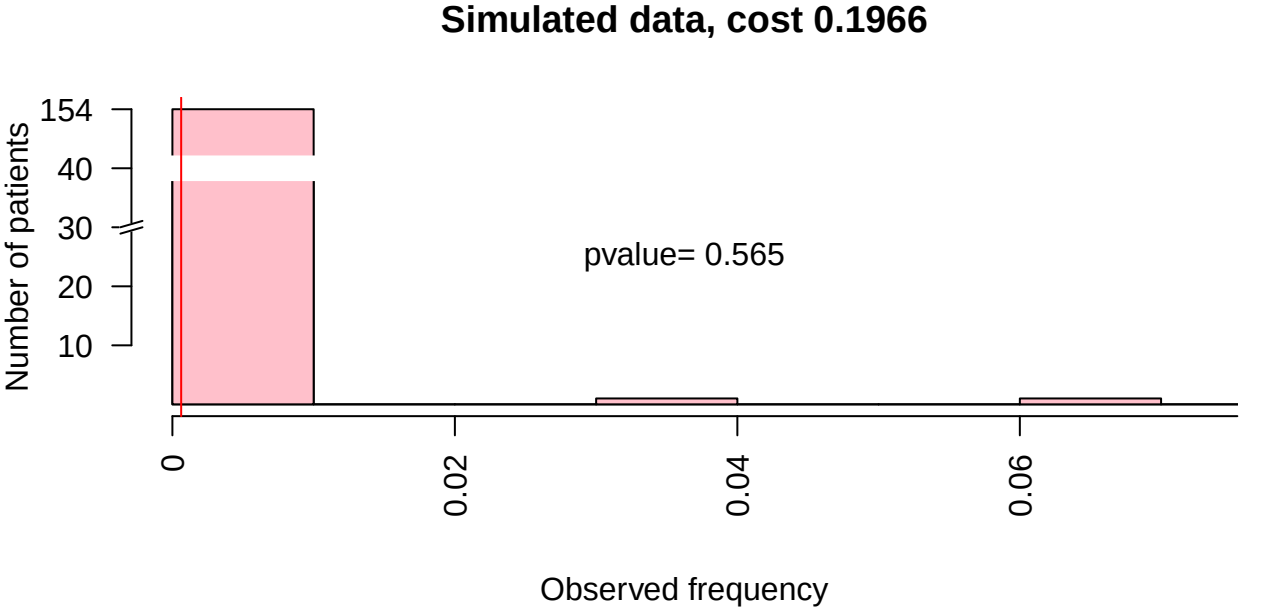

Single−SFS, site 747
Number of patients
124
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
Observed frequency

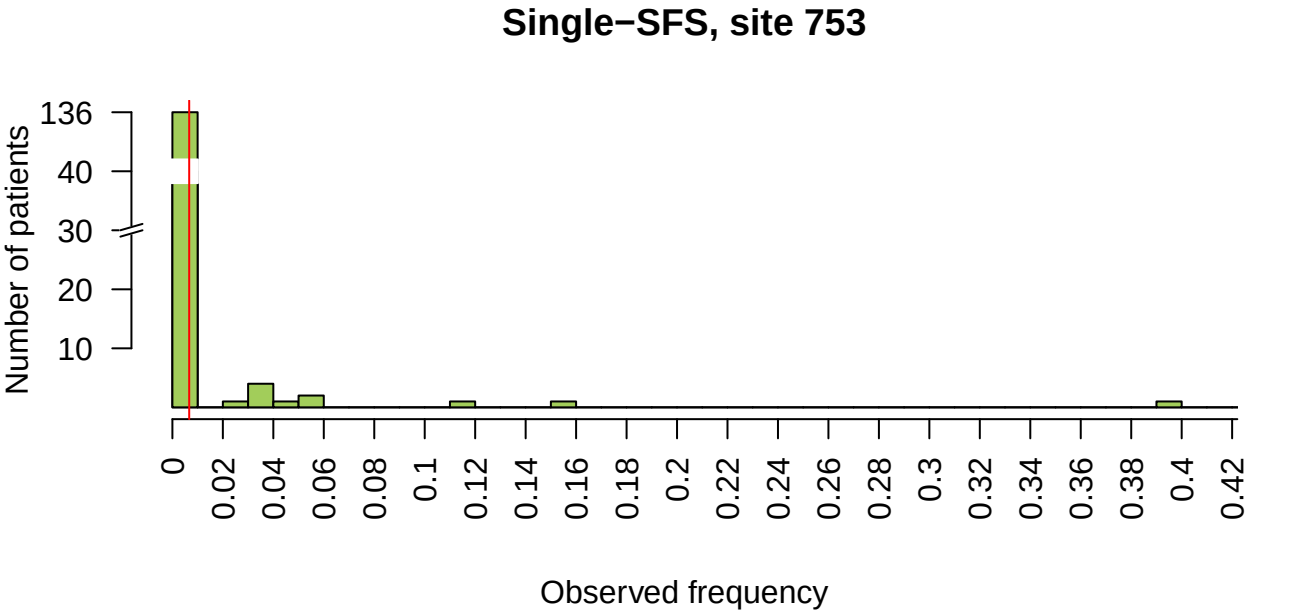

Simulated data, cost 0.0029
Number of patients
131
40
30
20
10
pvalue= 0.093
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
Observed frequency

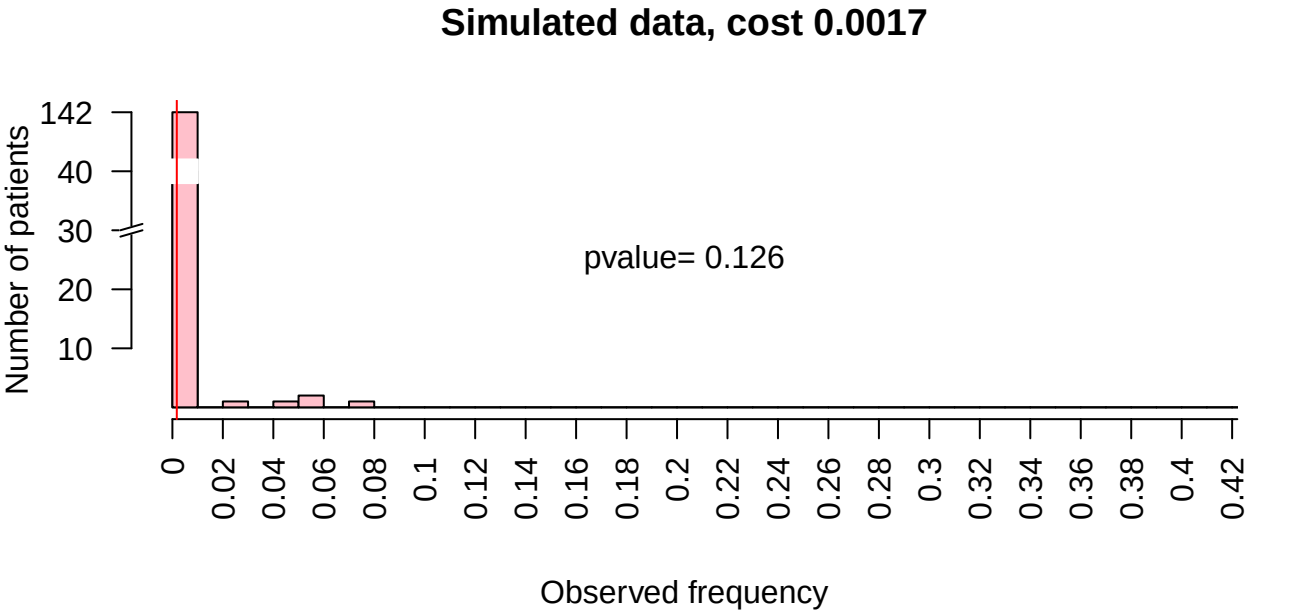

Single−SFS, site 751
Number of patients
152
40
30
20
10
0
0.02
0.04
0.06
0.08
Observed frequency

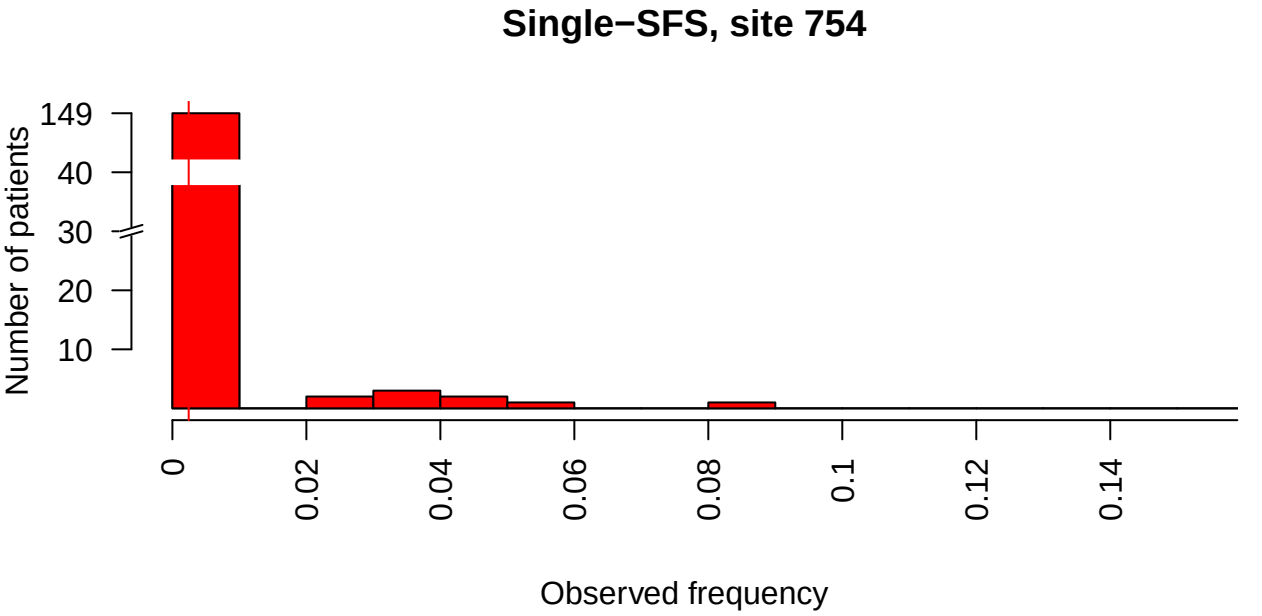

Simulated data, cost 0.1693
Number of patients
152
40
30
20
10
pvalue= 1
0
0.02
0.04
0.06
0.08
Observed frequency

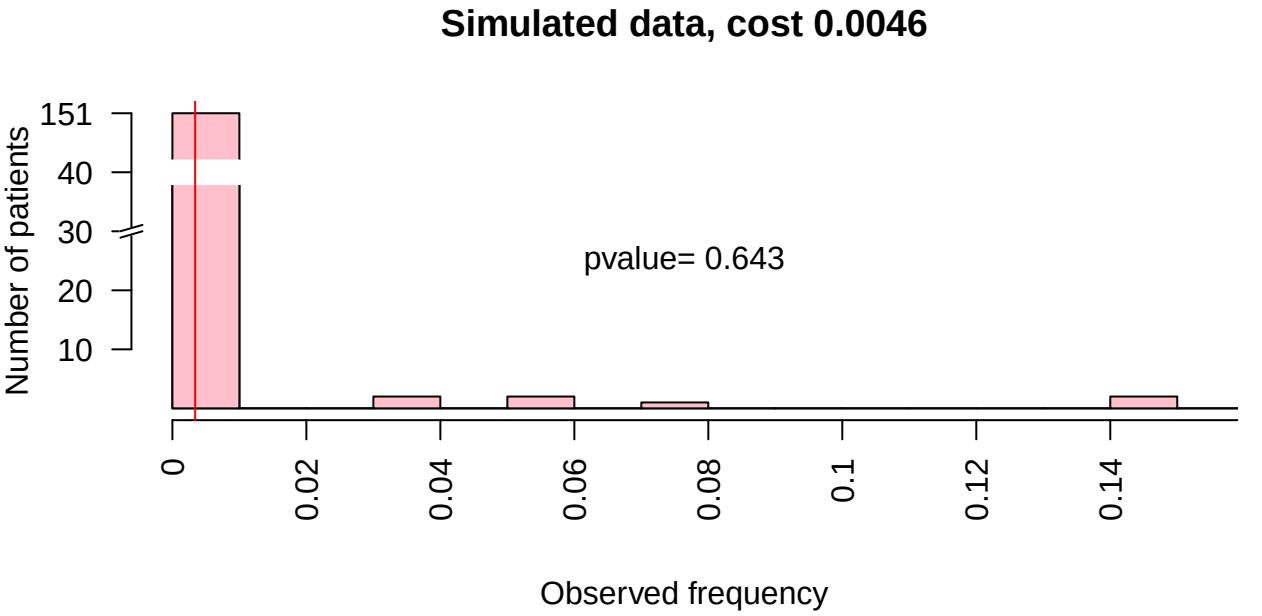

Single−SFS, site 752
Number of patients
155
40
30
20
10
0
0.02
0.04
0.06
Observed frequency

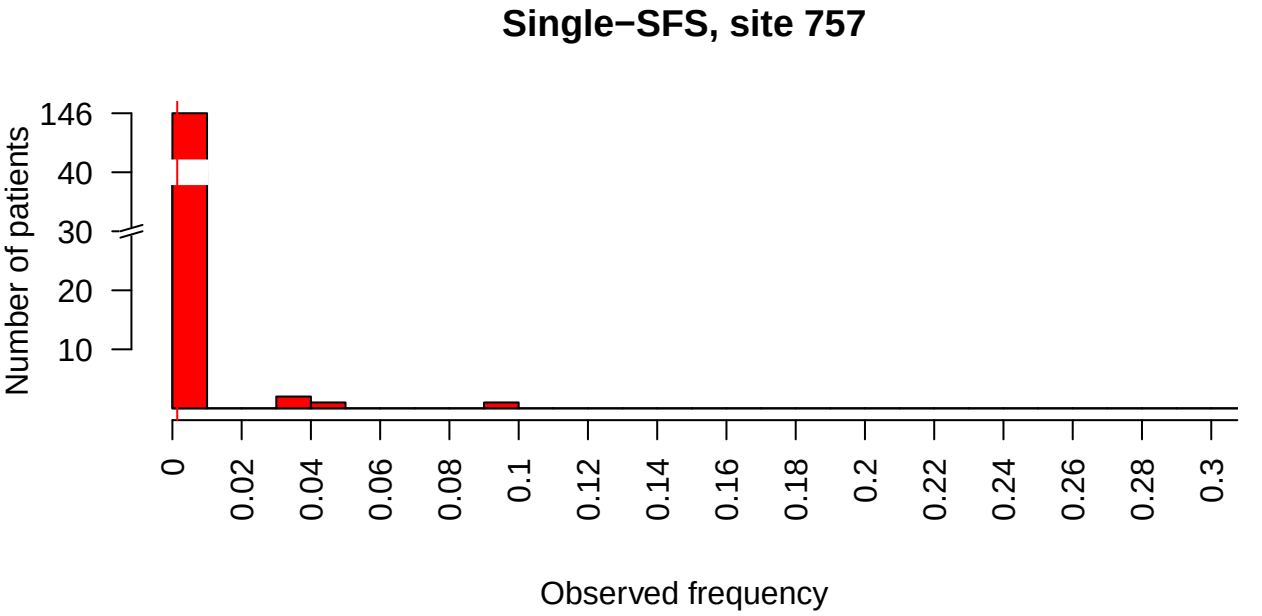

Simulated data, cost 0.1966
Number of patients
154
40
30
20
10
pvalue= 0.565
0
0.02
0.04
0.06
Observed frequency

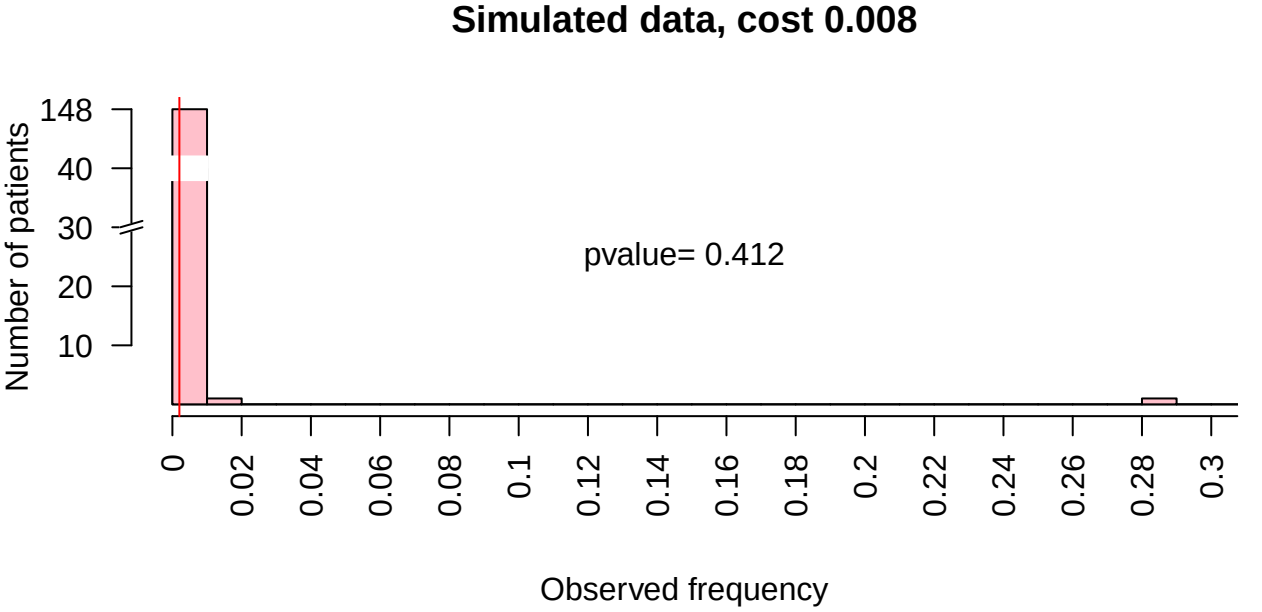

Single−SFS, site 753
Number of patients
136
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
0.24
0.26
0.28
0.3
0.32
0.34
0.36
0.38
0.4
0.42
Observed frequency

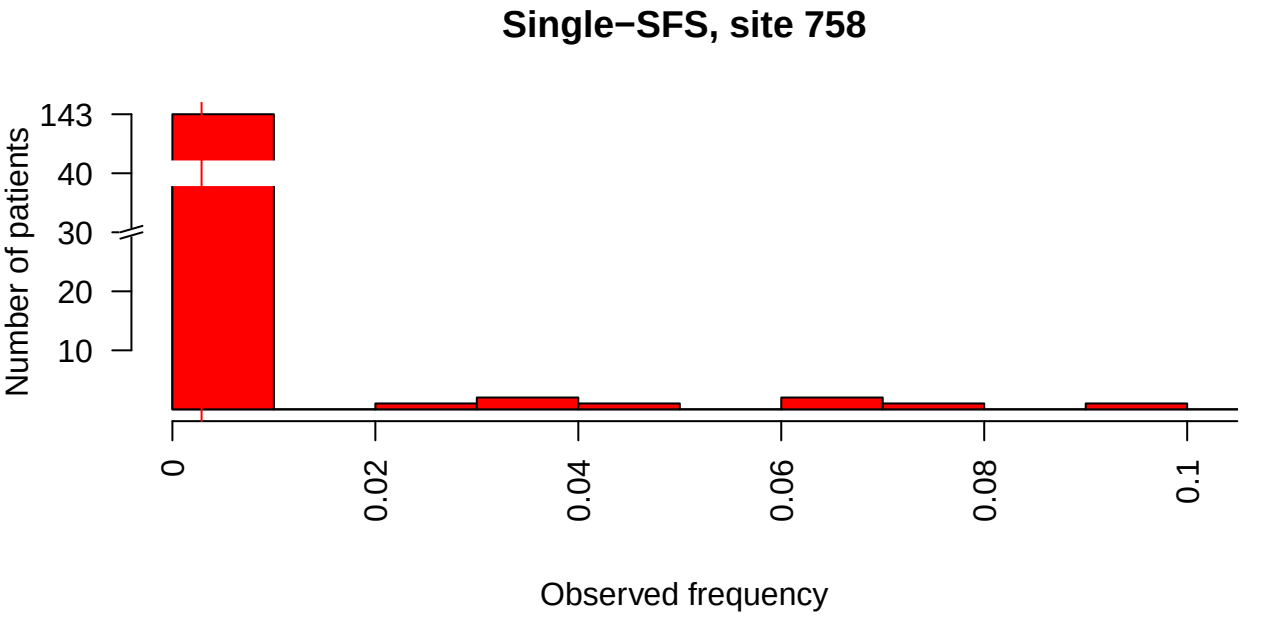

Simulated data, cost 0.0017
Number of patients
142
40
30
20
10
pvalue= 0.126
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
0.24
0.26
0.28
0.3
0.32
0.34
0.36
0.38
0.4
0.42
Observed frequency

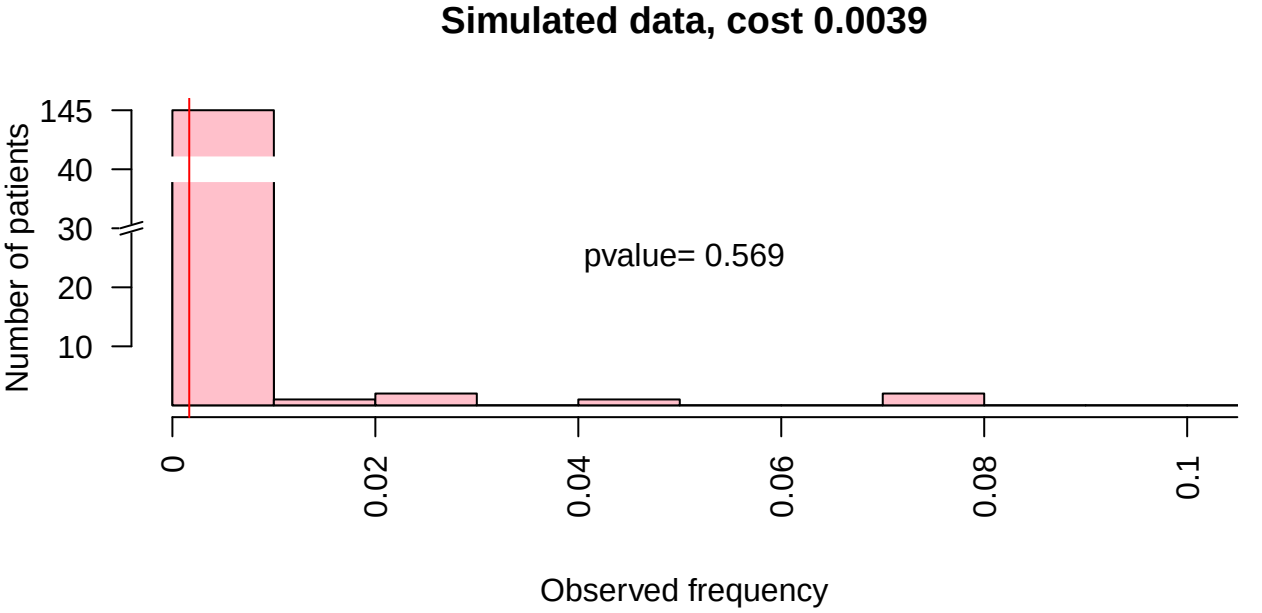

Single−SFS, site 754
Number of patients
149
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
Observed frequency

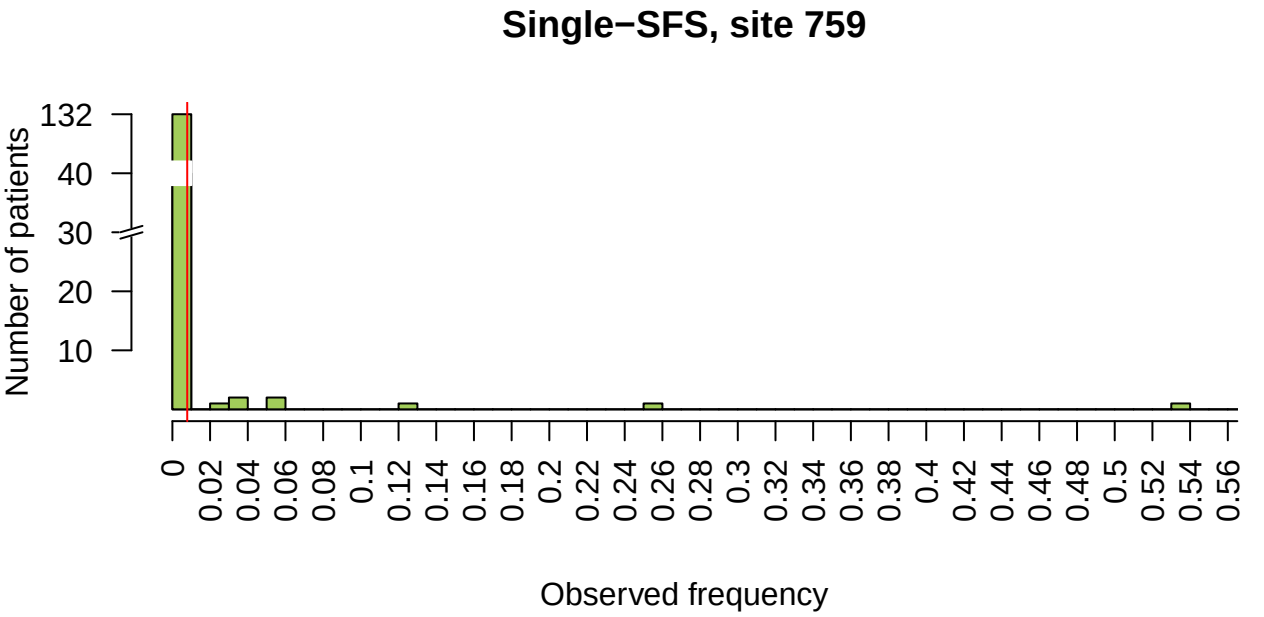

Simulated data, cost 0.0046
Number of patients
151
40
30
20
10
pvalue= 0.643
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
Observed frequency

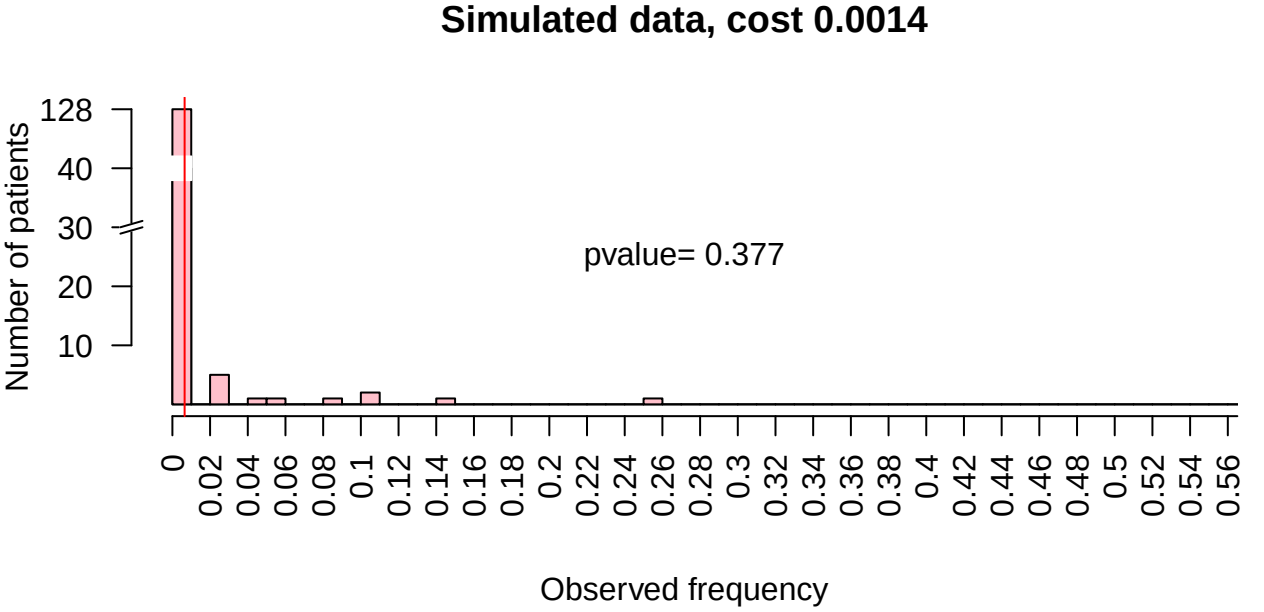

Single−SFS, site 757
Number of patients
146
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
0.24
0.26
0.28
0.3
Observed frequency

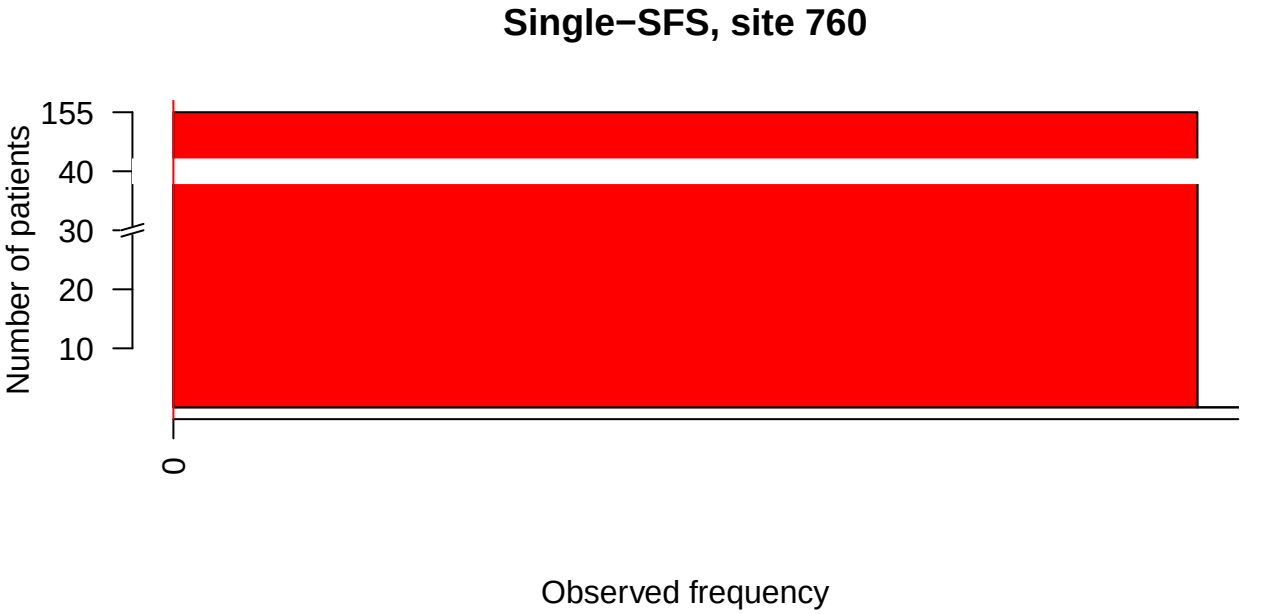

Simulated data, cost 0.008
Number of patients
148
40
30
20
10
pvalue= 0.412
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
0.24
0.26
0.28
0.3
Observed frequency

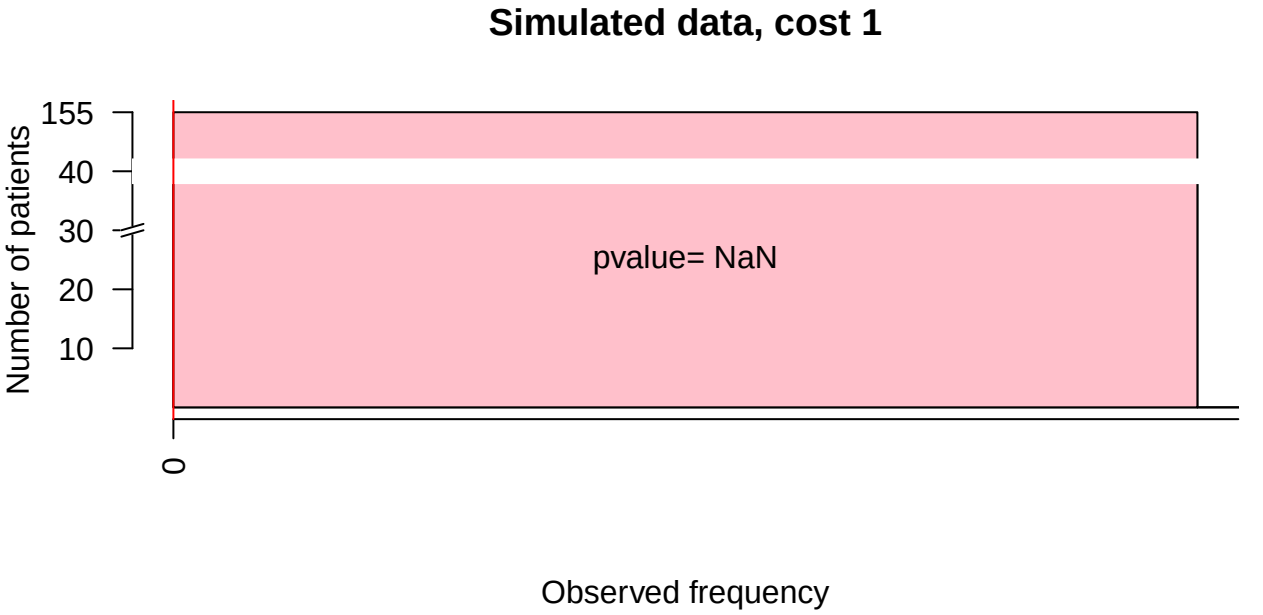

Single−SFS, site 758
Number of patients
143
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
Observed frequency

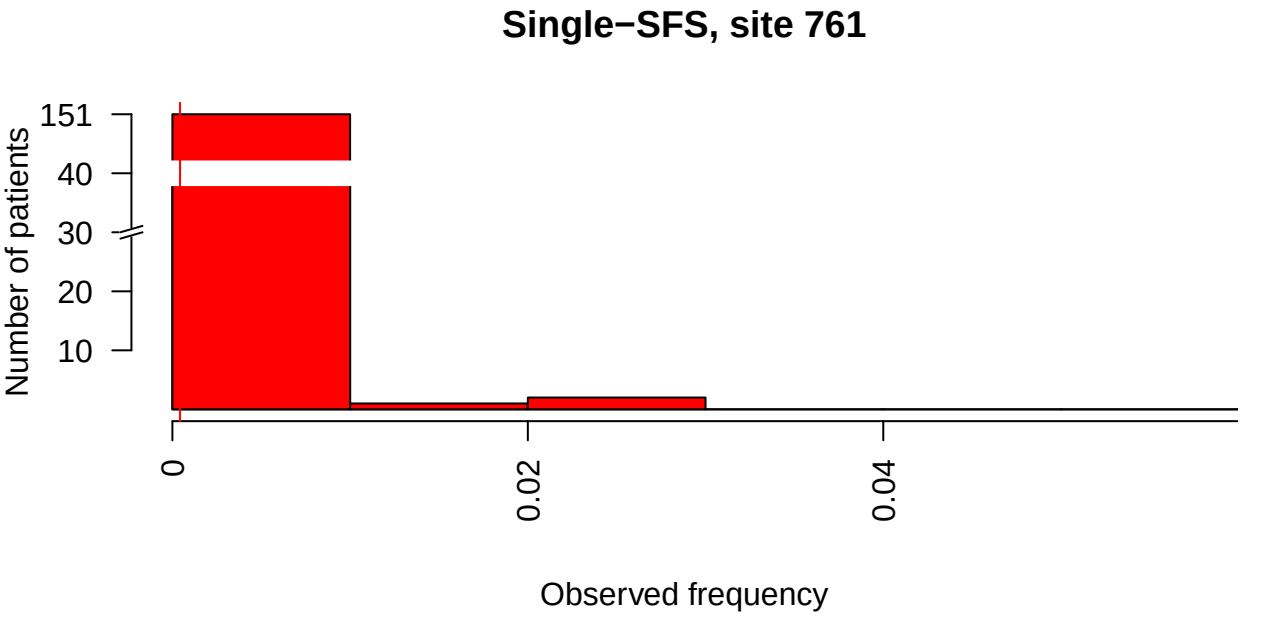

Simulated data, cost 0.0039
Number of patients
145
40
30
20
10
pvalue= 0.569
0
0.02
0.04
0.06
0.08
0.1
Observed frequency

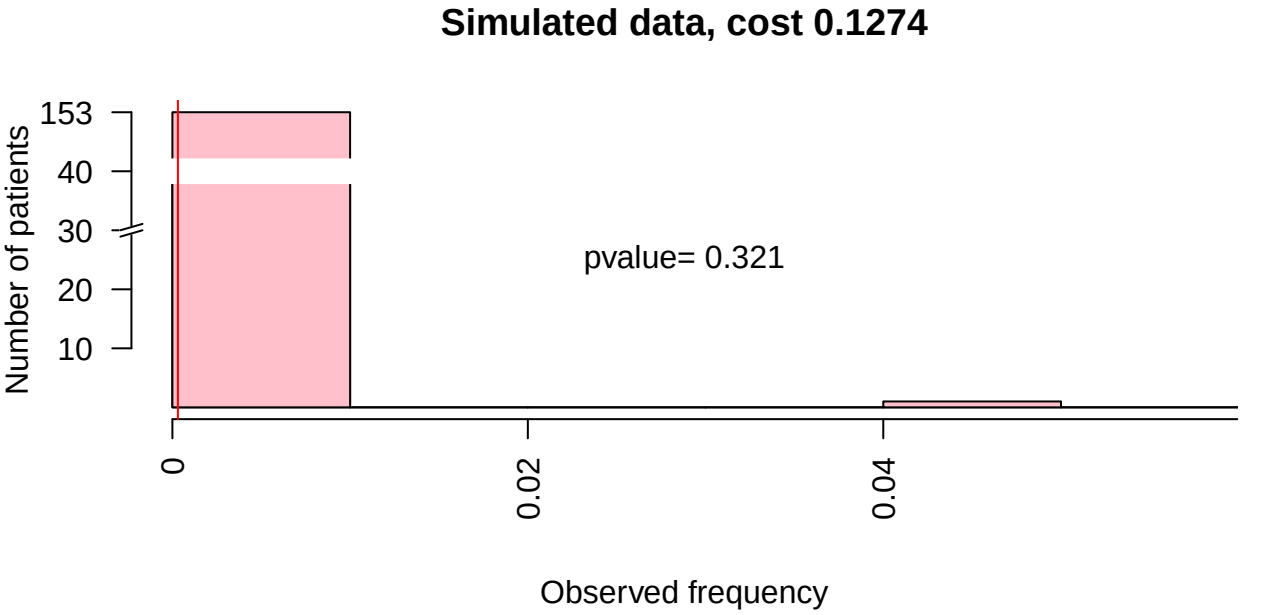

Single−SFS, site 759
Number of patients
132
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
0.24
0.26
0.28
0.3
0.32
0.34
0.36
0.38
0.4
0.42
0.44
0.46
0.48
0.5
0.52
0.54
0.56
Observed frequency

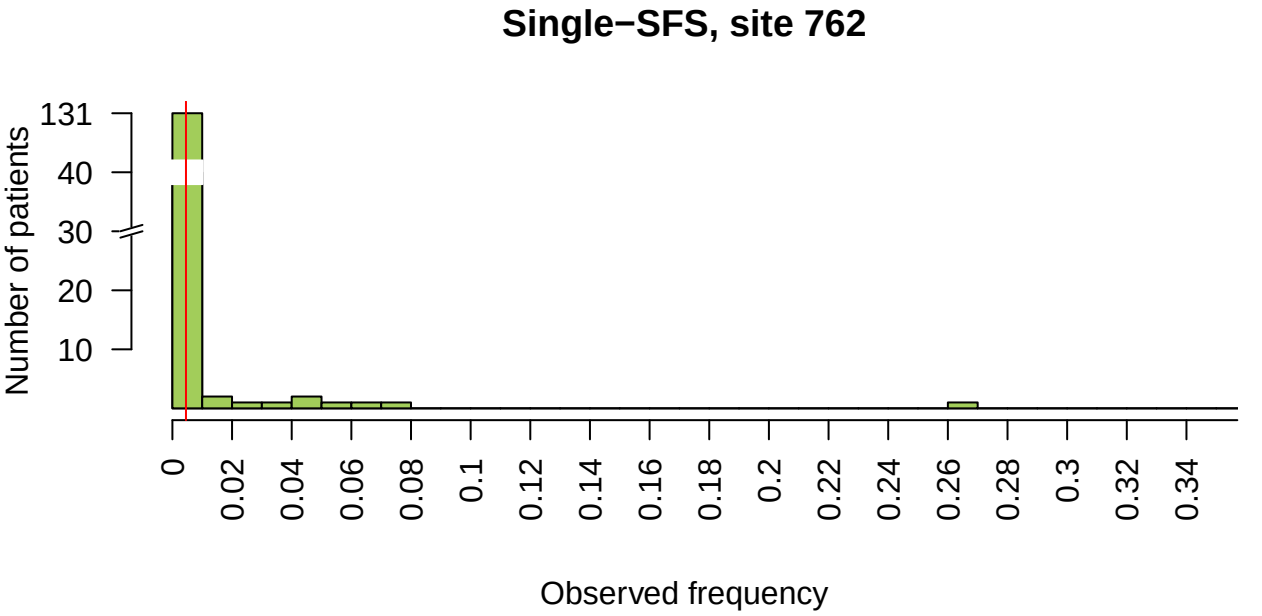

Simulated data, cost 0.0014
Number of patients
128
40
30
20
10
pvalue= 0.377
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
0.24
0.26
0.28
0.3
0.32
0.34
0.36
0.38
0.4
0.42
0.44
0.46
0.48
0.5
0.52
0.54
0.56
Observed frequency

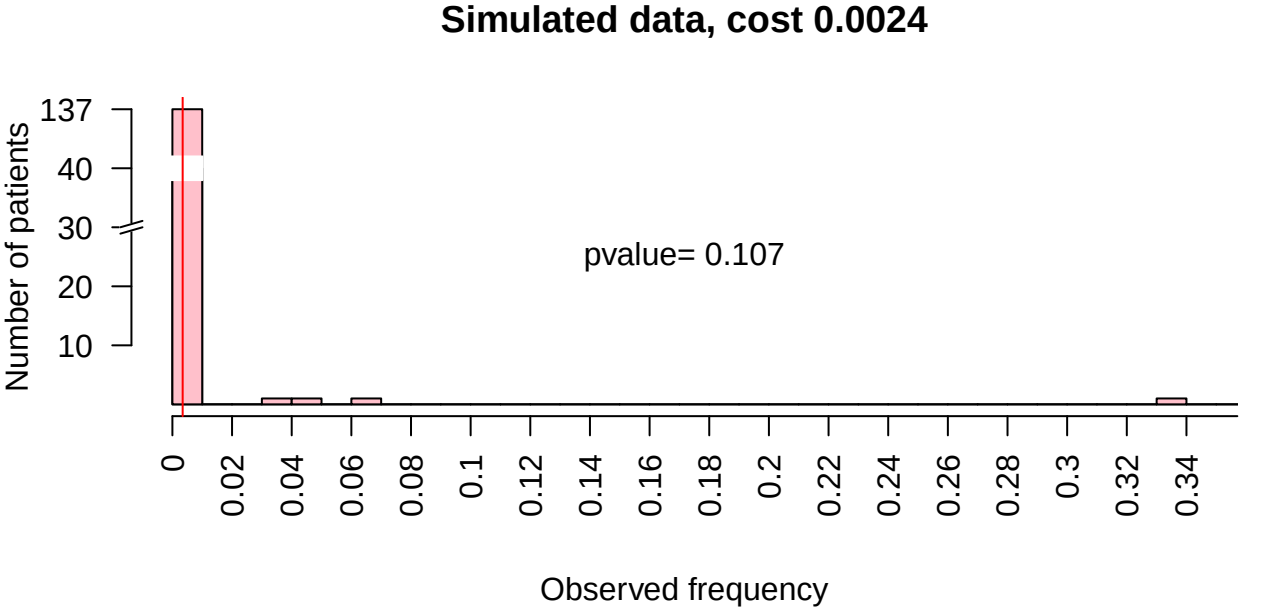

Single−SFS, site 760
Number of patients
155
40
30
20
10
0
Observed frequency

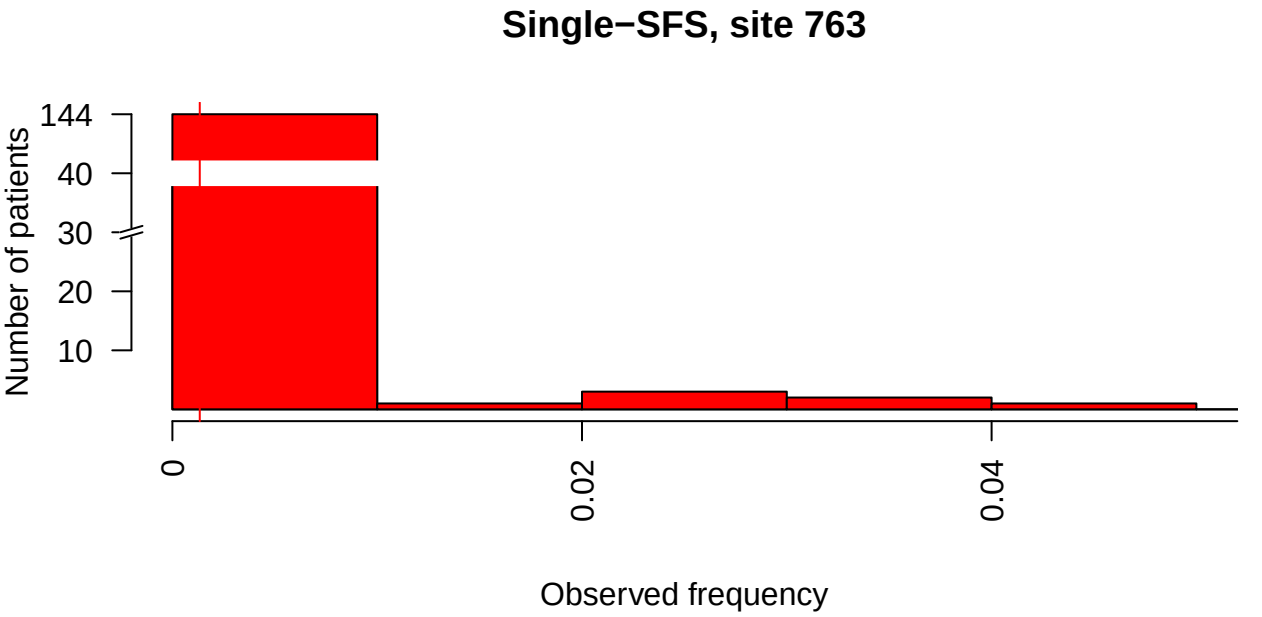

Simulated data, cost 1
Number of patients
155
40
30
20
10
0
pvalue= NaN
Observed frequency

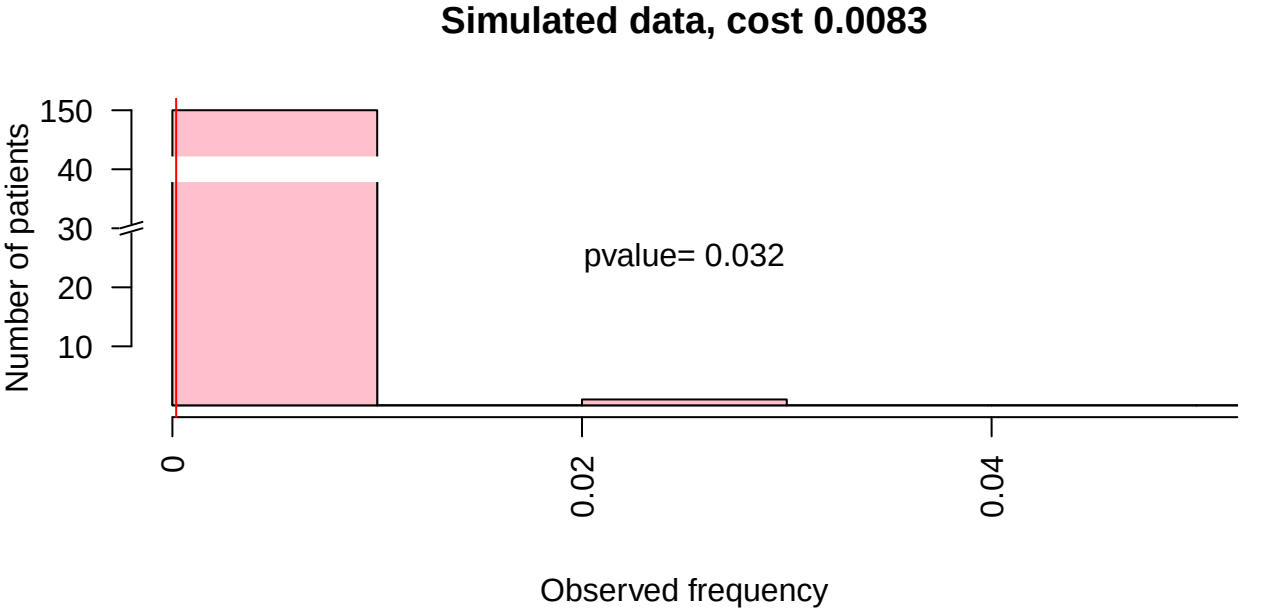

Single−SFS, site 761
Number of patients
151
40
30
20
10
0
0.02
0.04
Observed frequency

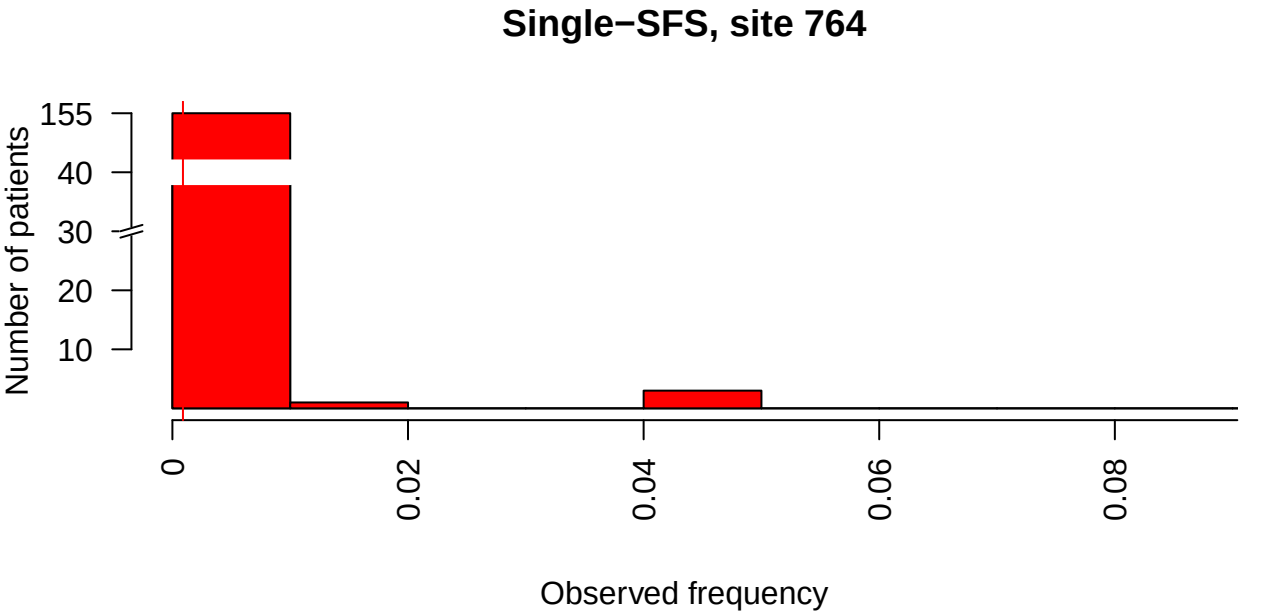

Simulated data, cost 0.1274
Number of patients
153
40
30
20
10
pvalue= 0.321
0
0.02
0.04
Observed frequency

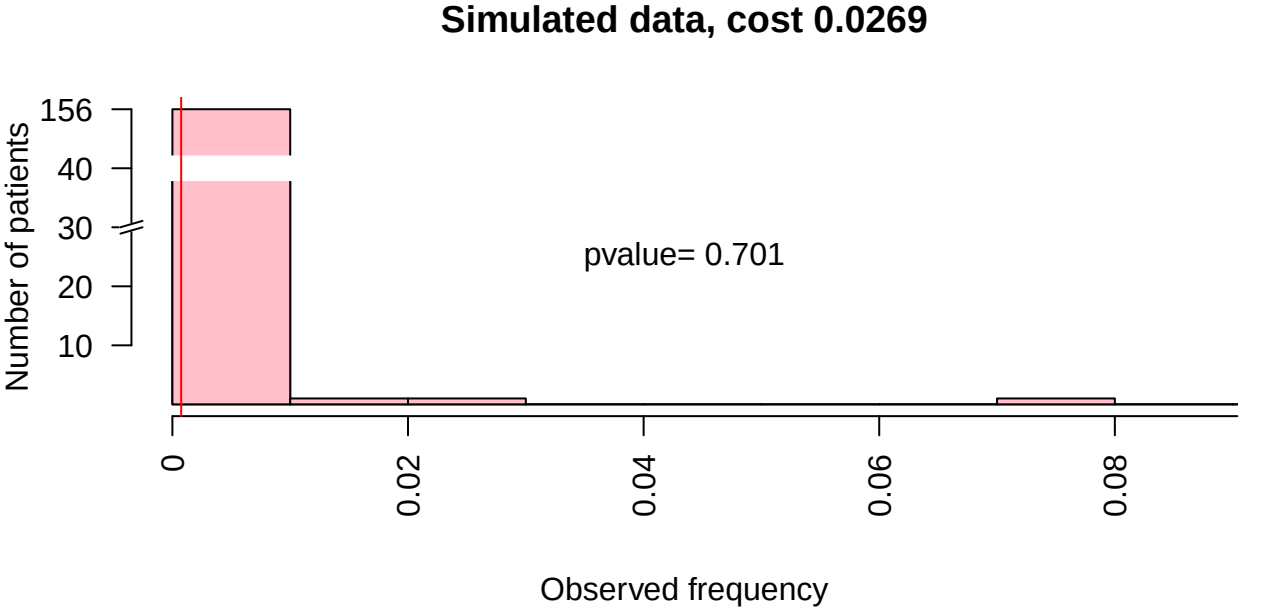

Single−SFS, site 762
Number of patients
131
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
0.24
0.26
0.28
0.3
0.32
0.34
Observed frequency

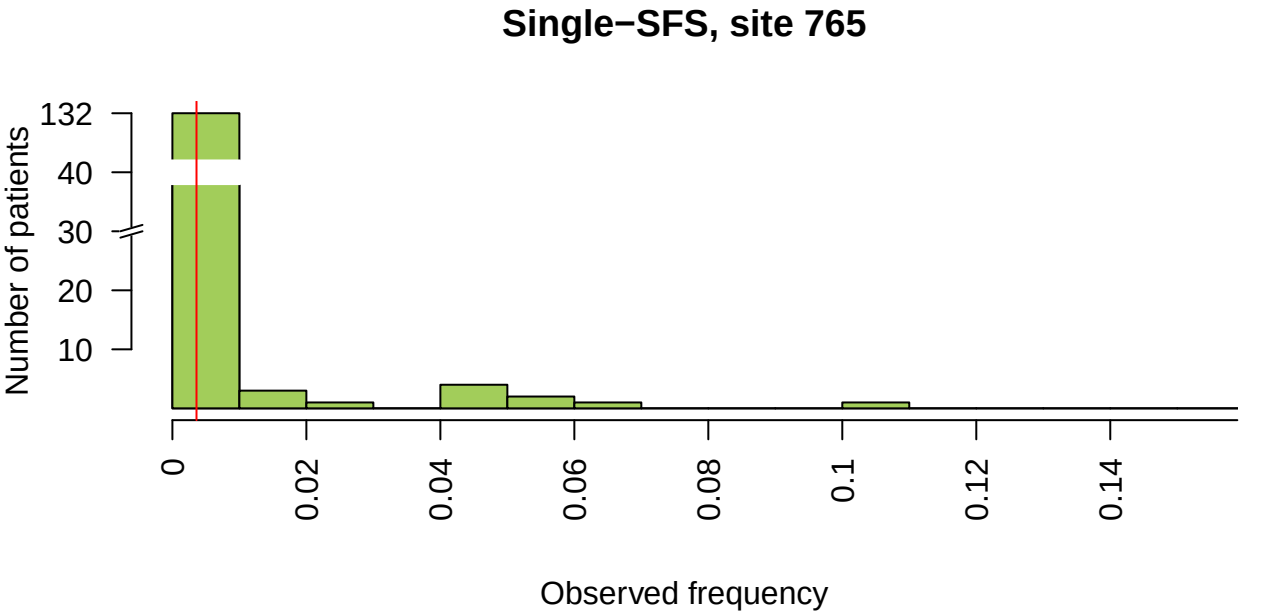

Simulated data, cost 0.0024
Number of patients
137
40
30
20
10
pvalue= 0.107
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
0.24
0.26
0.28
0.3
0.32
0.34
Observed frequency

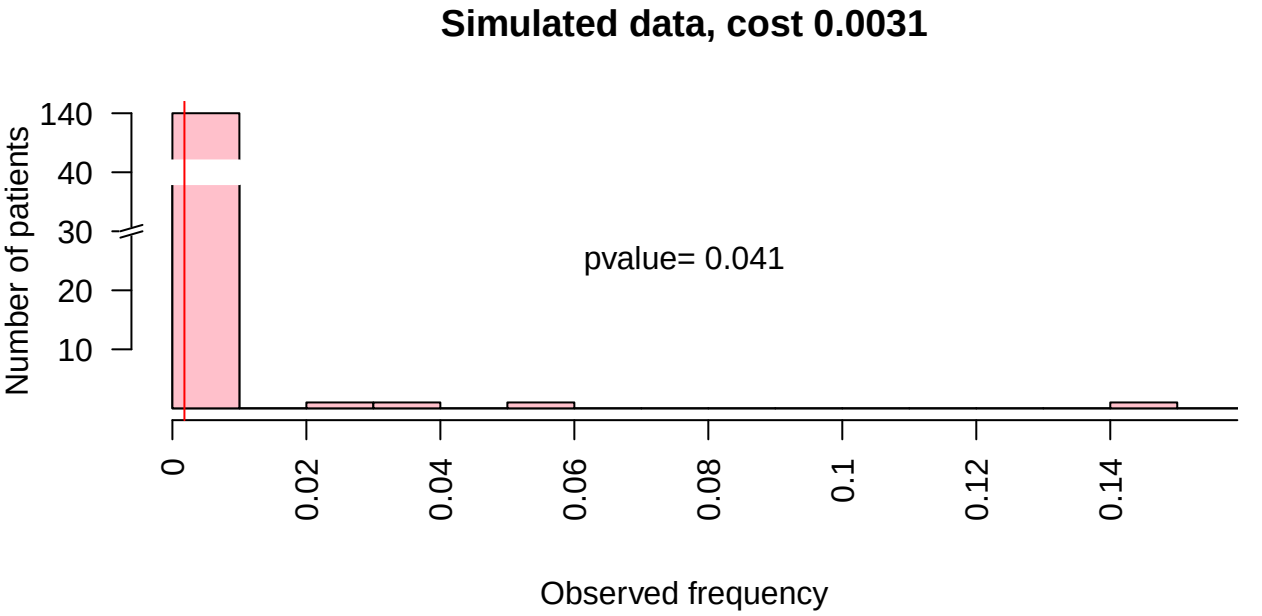

Single−SFS, site 763
Number of patients
144
40
30
20
10
0
0.02
0.04
Observed frequency

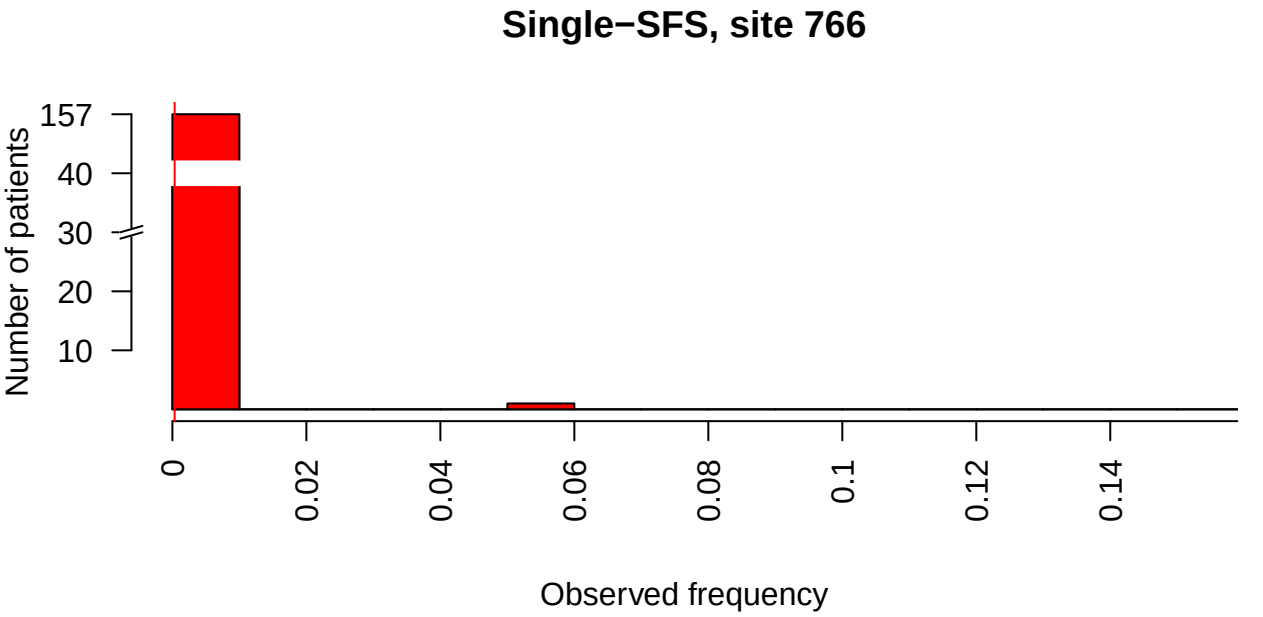

Simulated data, cost 0.0083
Number of patients
150
40
30
20
10
pvalue= 0.032
0
0.02
0.04
Observed frequency

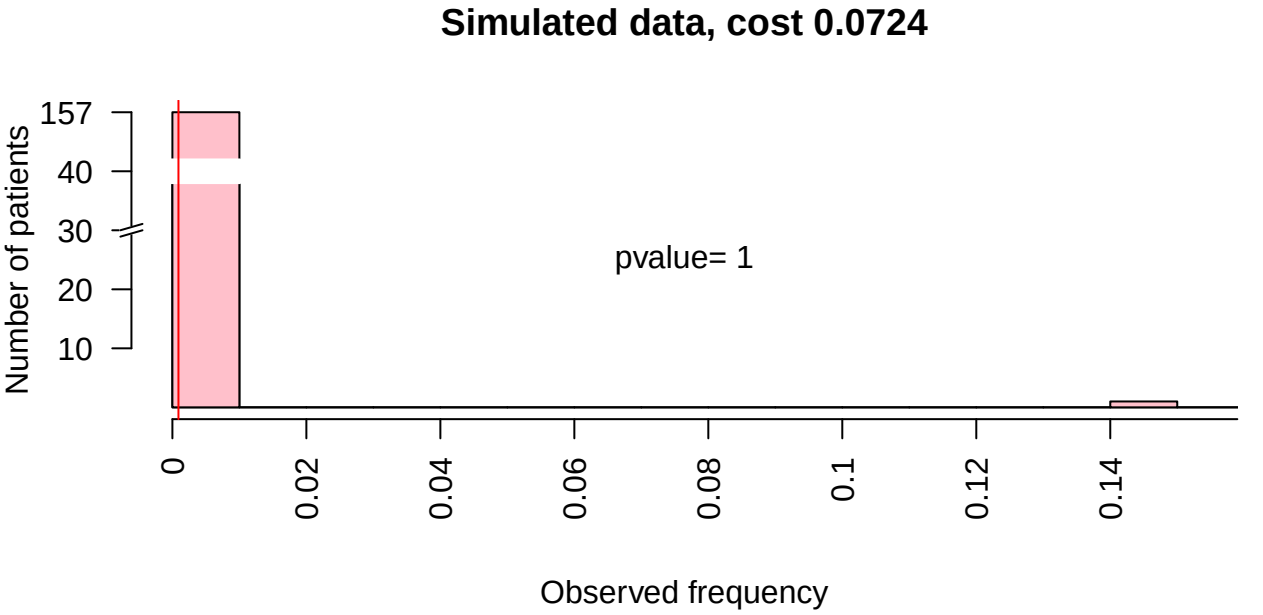

Single−SFS, site 764
Number of patients
155
40
30
20
10
0
0.02
0.04
0.06
0.08
Observed frequency

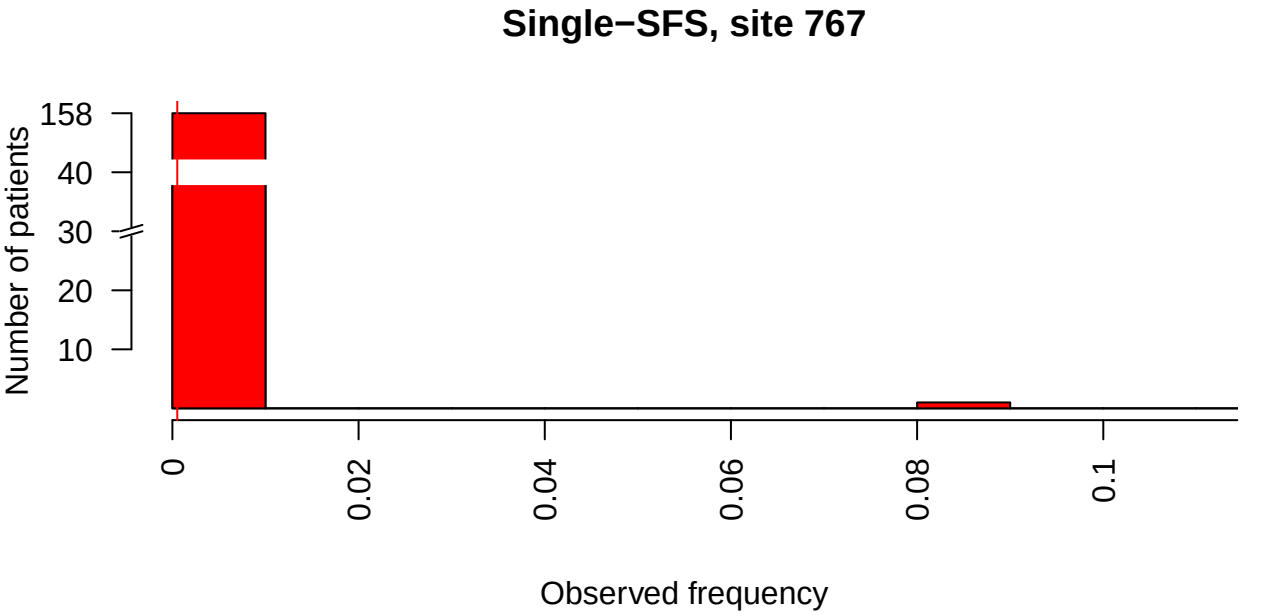

Simulated data, cost 0.0269
Number of patients
156
40
30
20
10
pvalue= 0.701
0
0.02
0.04
0.06
0.08
Observed frequency

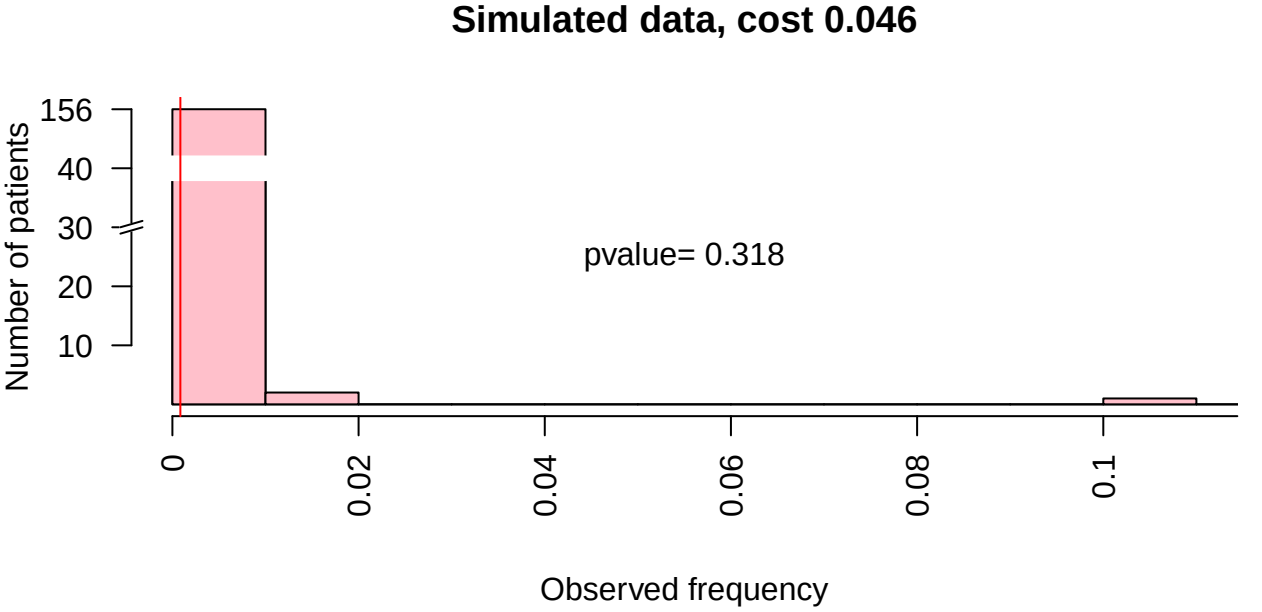

Single−SFS, site 765
Number of patients
132
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
Observed frequency

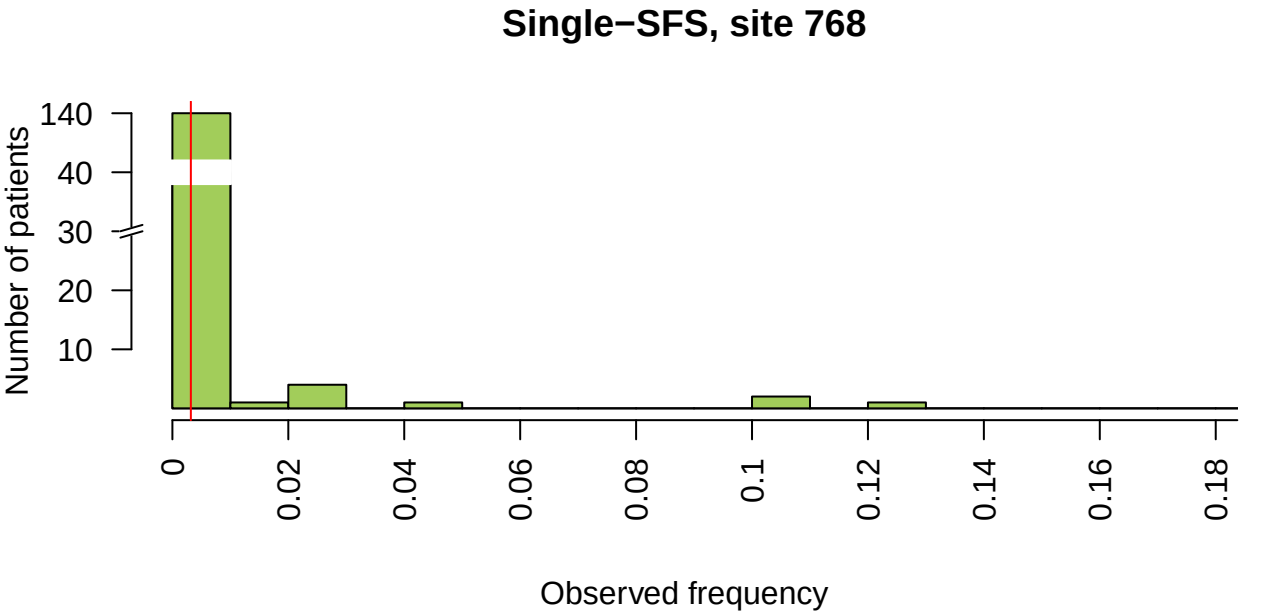

Simulated data, cost 0.0031
Number of patients
140
40
30
20
10
pvalue= 0.041
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
Observed frequency

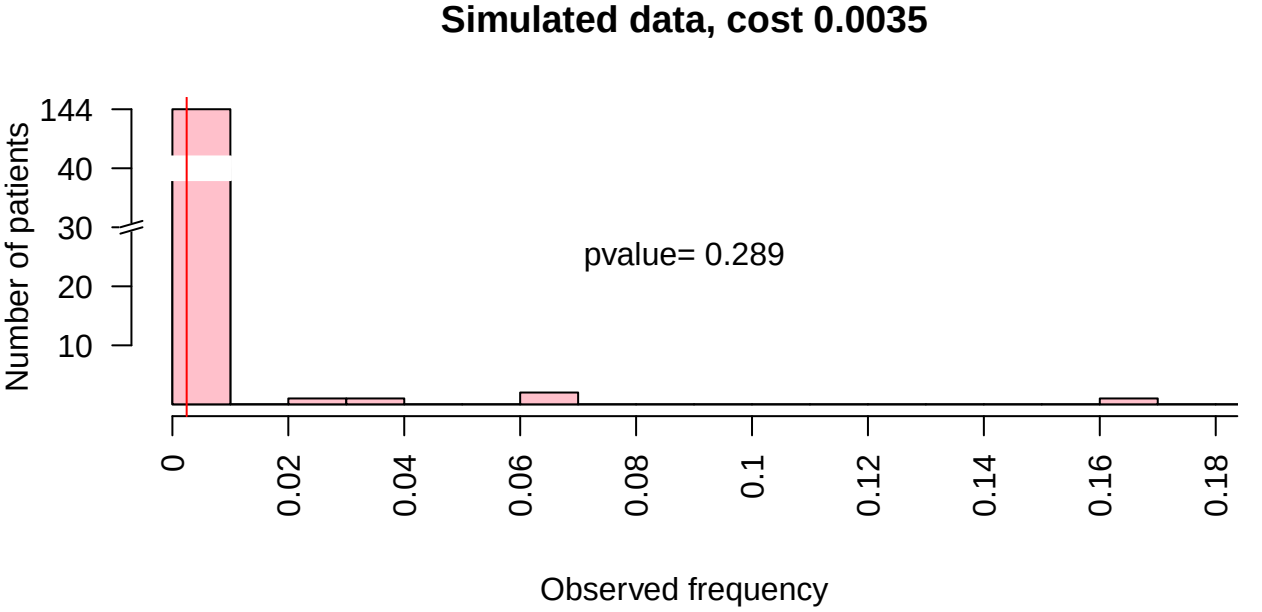

Single−SFS, site 766
Number of patients
157
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
Observed frequency

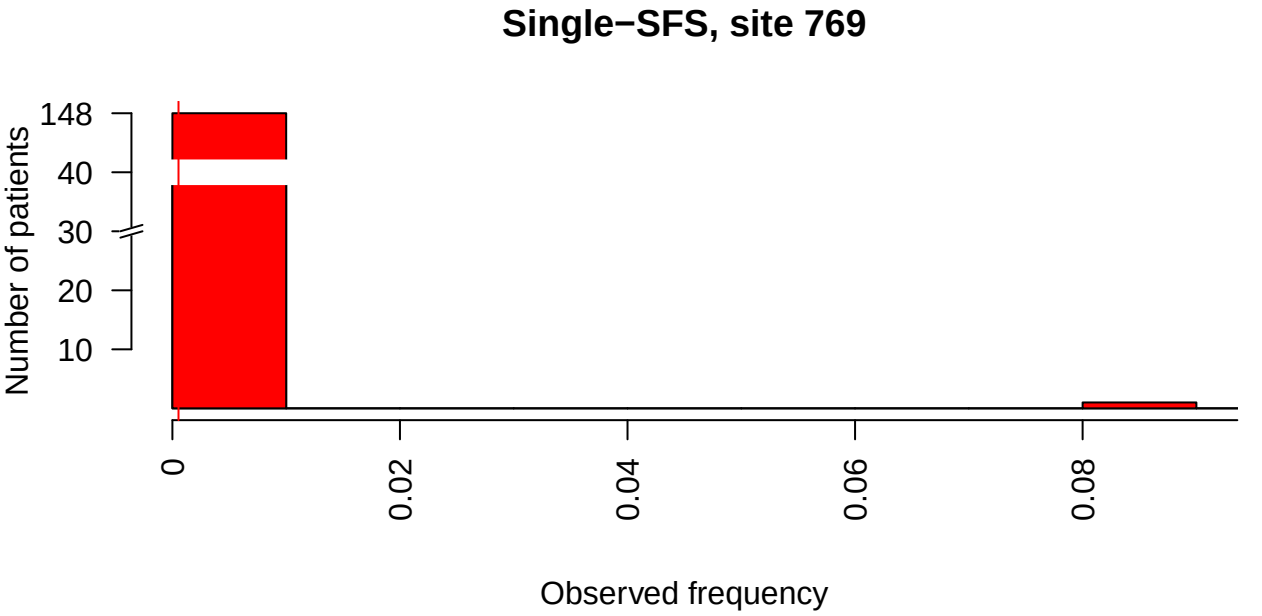

Simulated data, cost 0.0724
Number of patients
157
40
30
20
10
pvalue= 1
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
Observed frequency

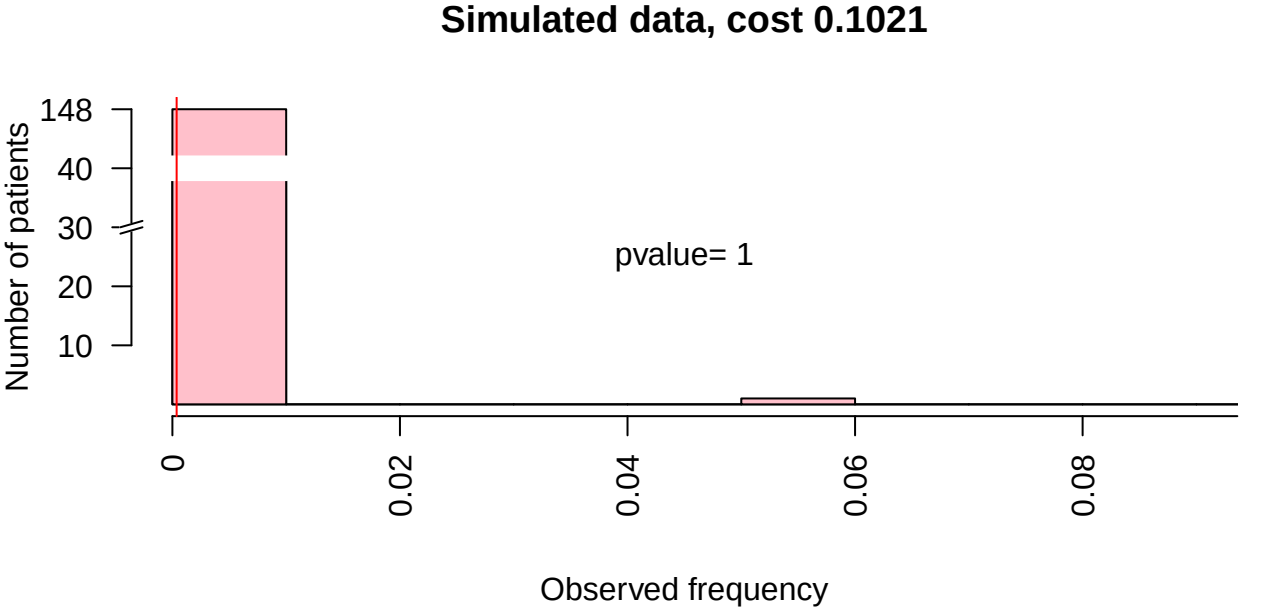

Single−SFS, site 767
Number of patients
158
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
Observed frequency

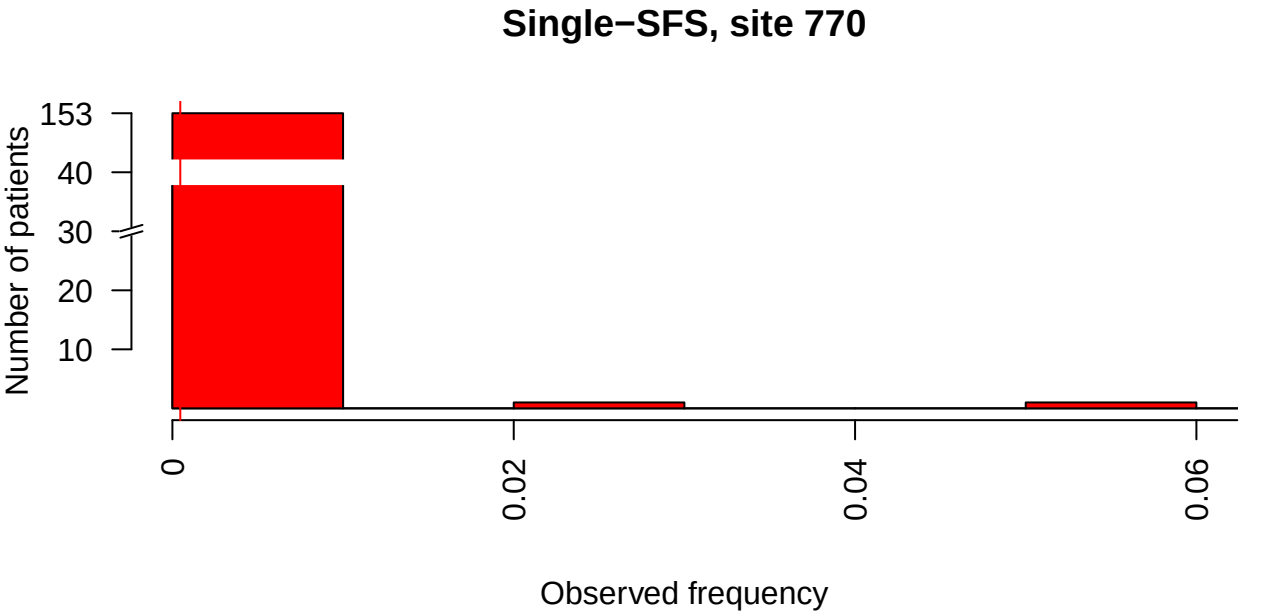

Simulated data, cost 0.046
Number of patients
156
40
30
20
10
pvalue= 0.318
0
0.02
0.04
0.06
0.08
0.1
Observed frequency

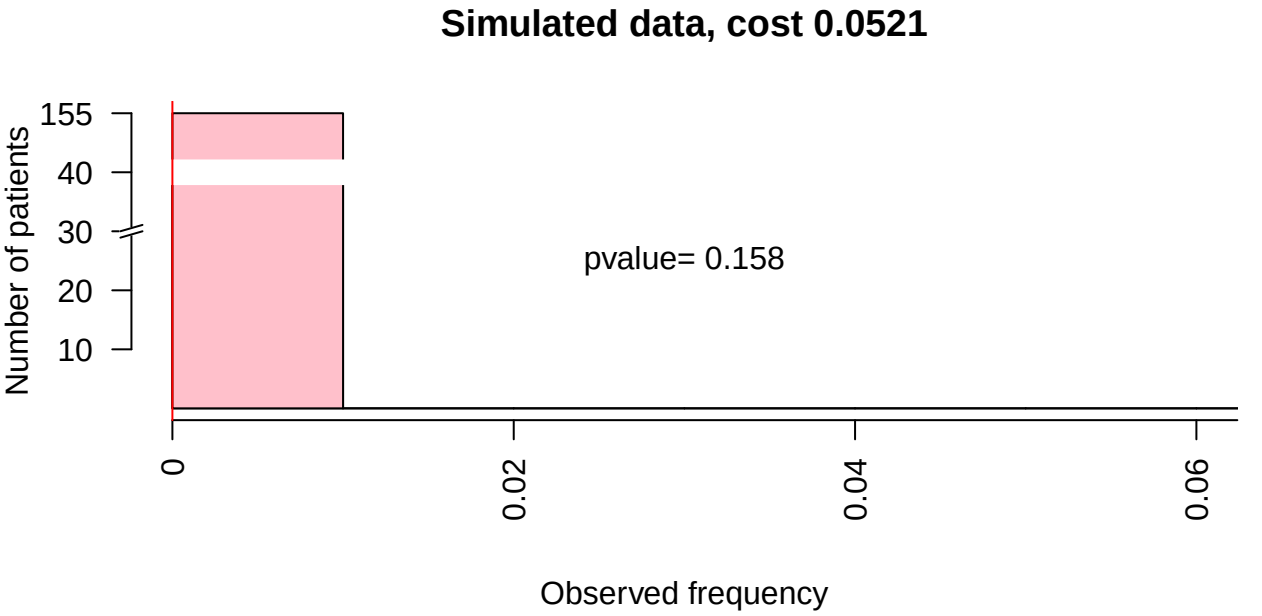

Single−SFS, site 768
Number of patients
140
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
Observed frequency

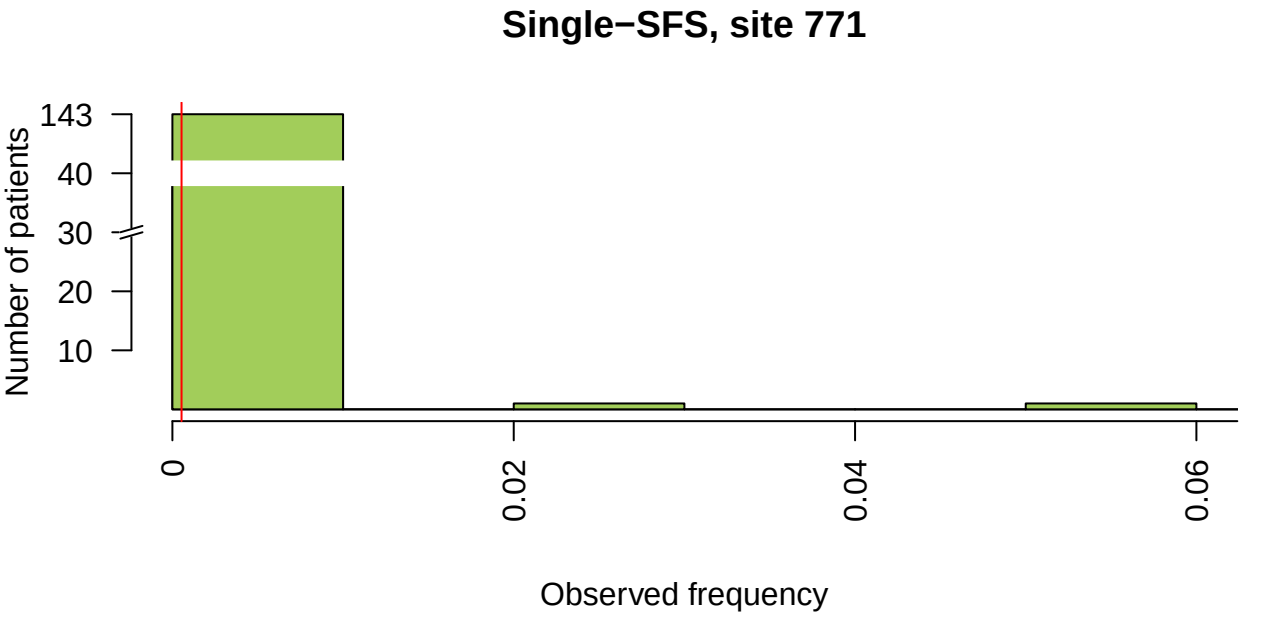

Simulated data, cost 0.0035
Number of patients
144
40
30
20
10
pvalue= 0.289
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
Observed frequency

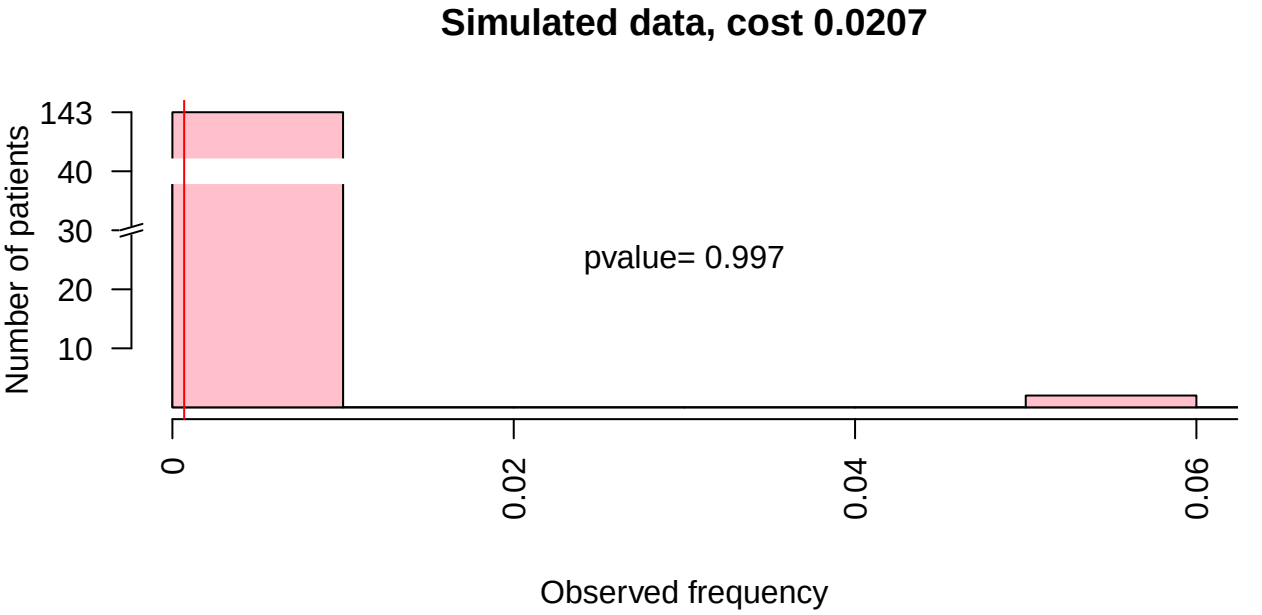

Single−SFS, site 769
Number of patients
148
40
30
20
10
0
0.02
0.04
0.06
0.08
Observed frequency

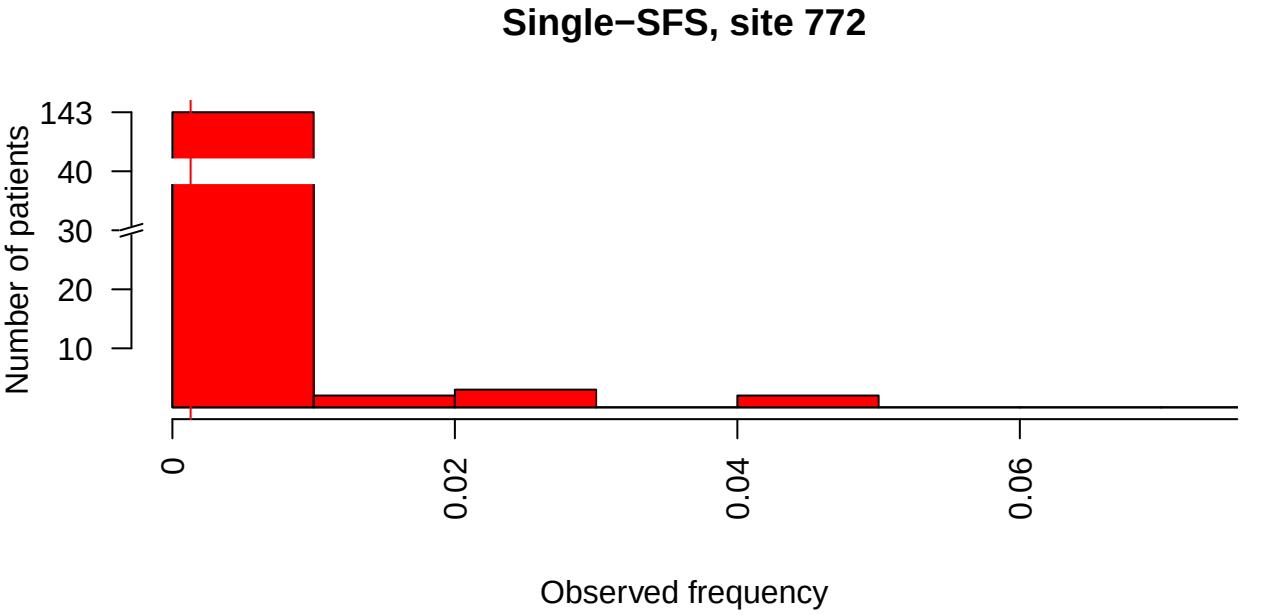

Simulated data, cost 0.1021
Number of patients
148
40
30
20
10
pvalue= 1
0
0.02
0.04
0.06
0.08
Observed frequency

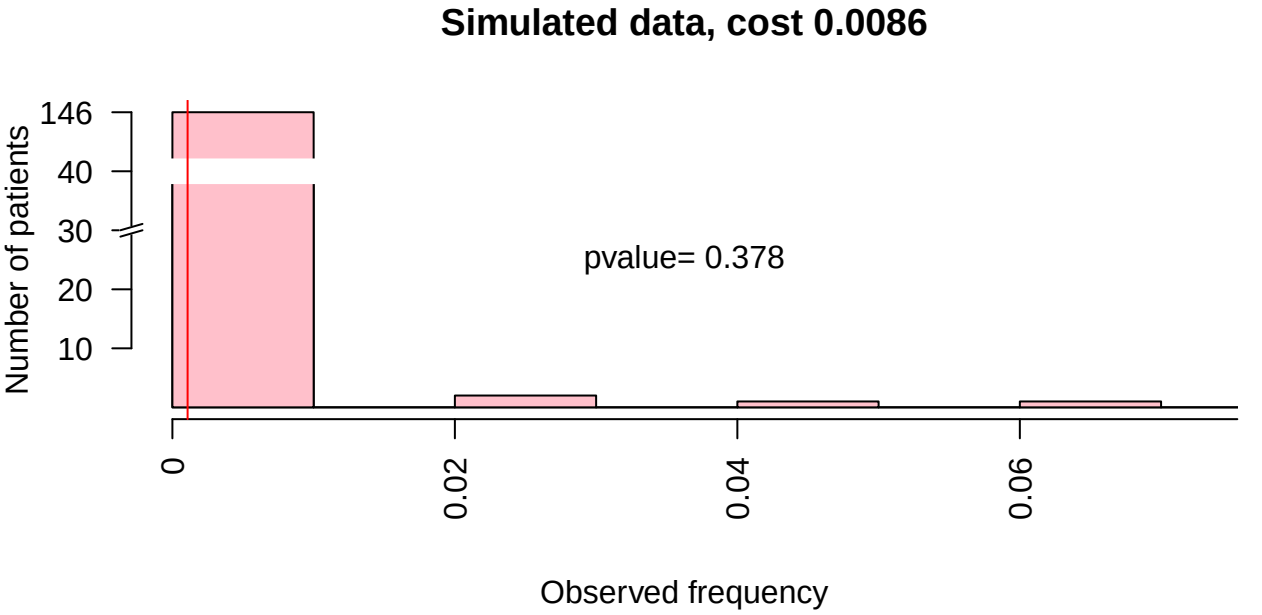

Single−SFS, site 770
Number of patients
153
40
30
20
10
0
0.02
0.04
0.06
Observed frequency

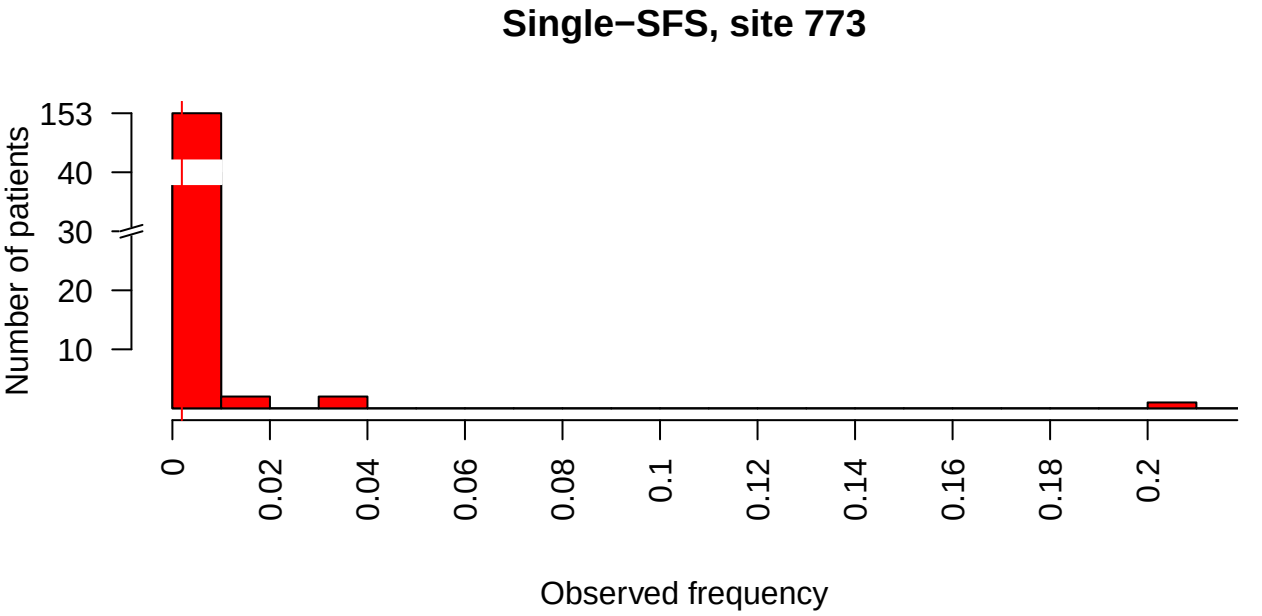

Simulated data, cost 0.0521
Number of patients
155
40
30
20
10
pvalue= 0.158
0
0.02
0.04
0.06
Observed frequency

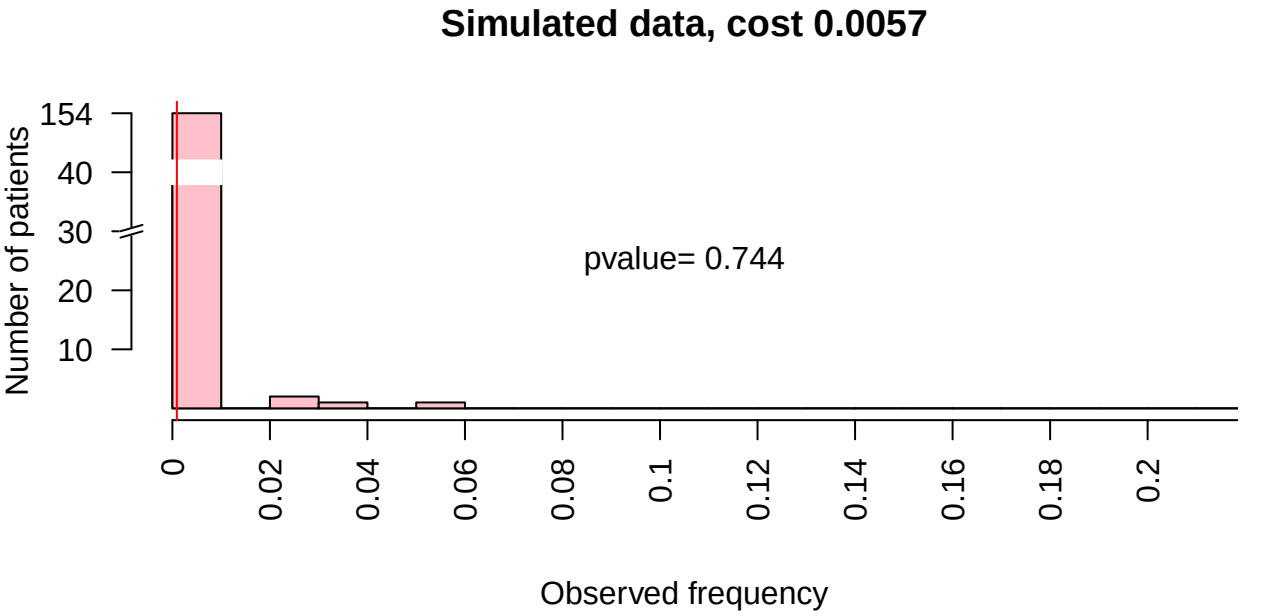

Single−SFS, site 771
Number of patients
143
40
30
20
10
0
0.02
0.04
0.06
Observed frequency

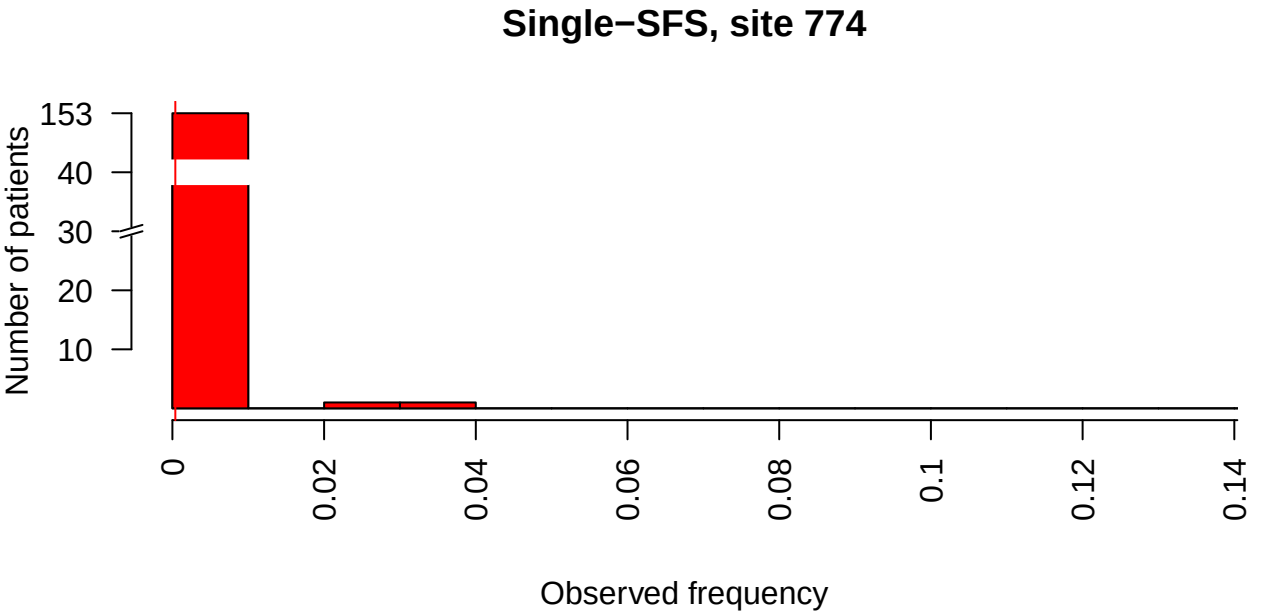

Simulated data, cost 0.0207
Number of patients
143
40
30
20
10
pvalue= 0.997
0
0.02
0.04
0.06
Observed frequency

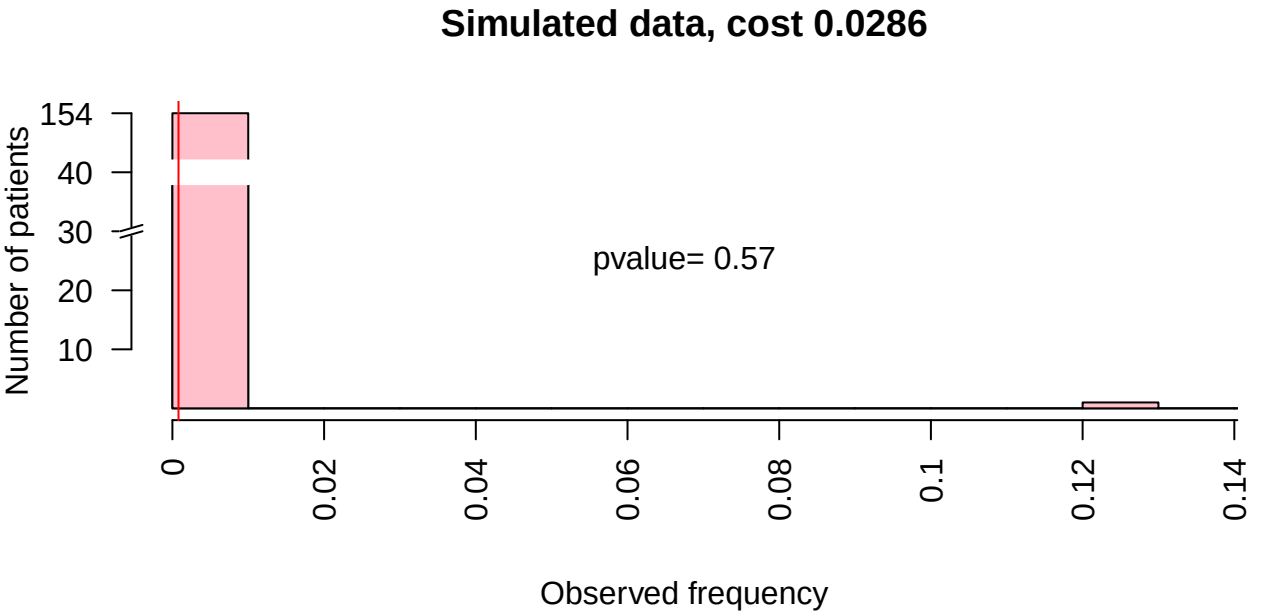

Single−SFS, site 772
Number of patients
143
40
30
20
10
0
0.02
0.04
0.06
Observed frequency

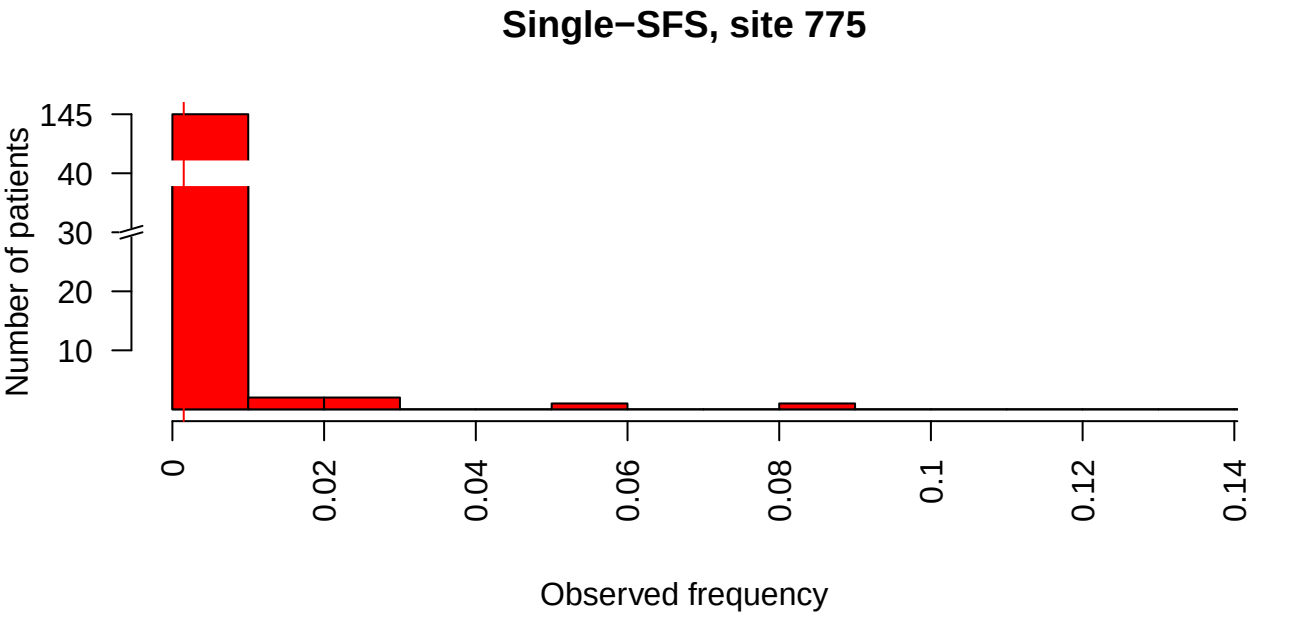

Simulated data, cost 0.0086
Number of patients
146
40
30
20
10
pvalue= 0.378
0
0.02
0.04
0.06
Observed frequency

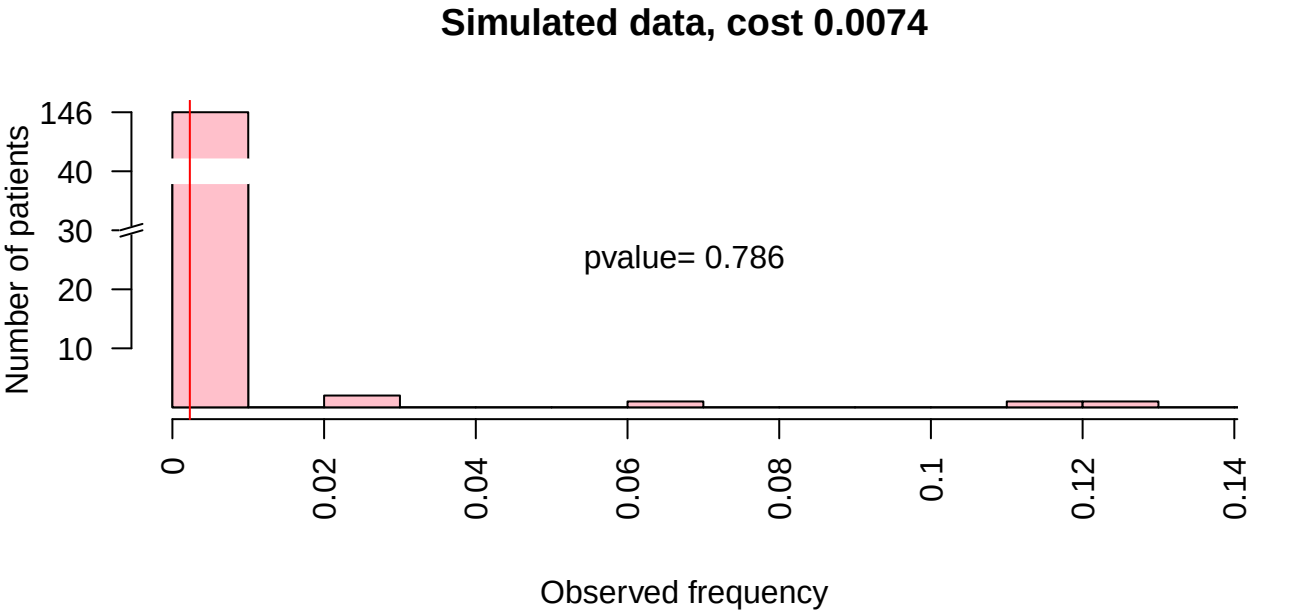

Single−SFS, site 773
Number of patients
153
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
Observed frequency

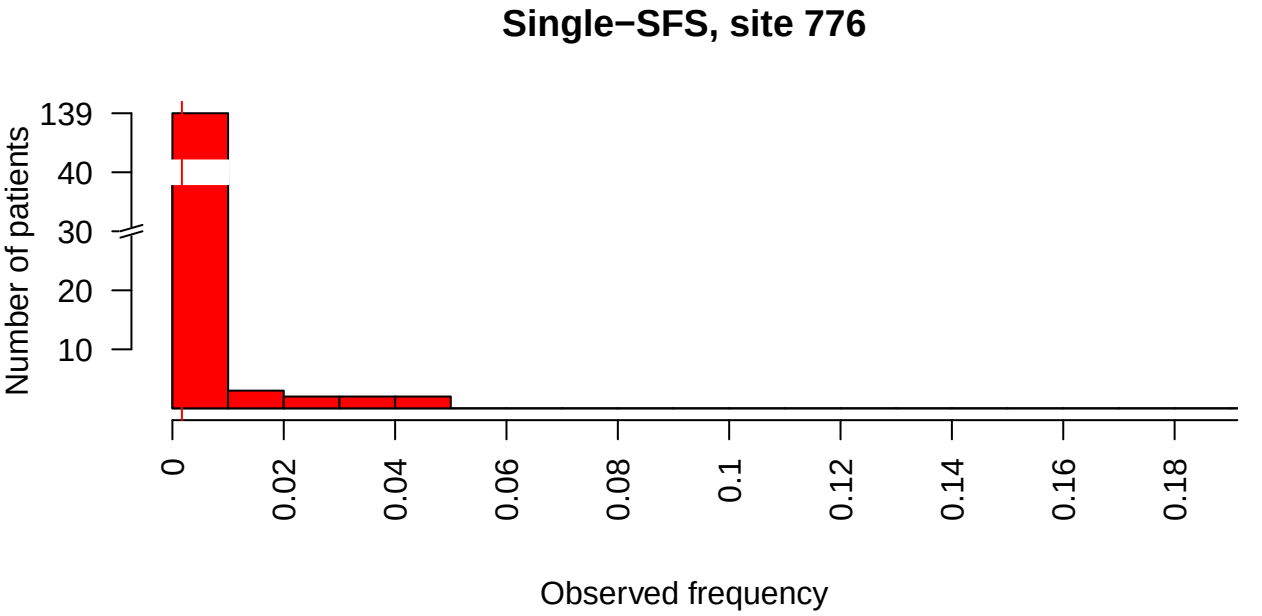

Simulated data, cost 0.0057
Number of patients
154
40
30
20
10
pvalue= 0.744
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
Observed frequency

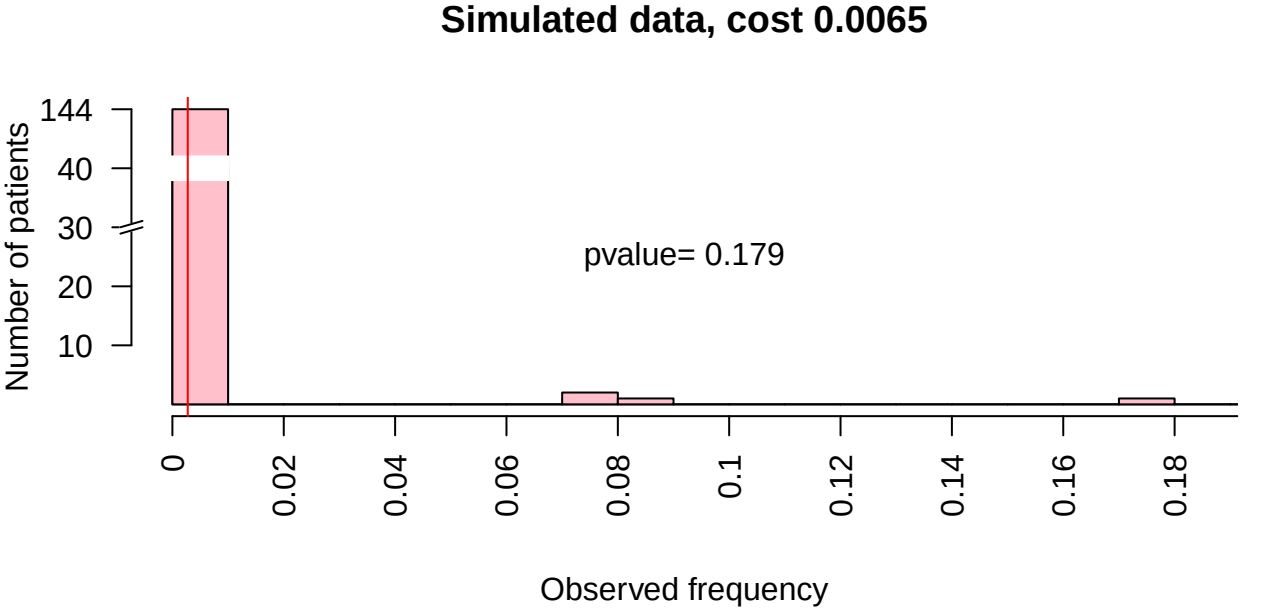

Single−SFS, site 774
Number of patients
153
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
Observed frequency

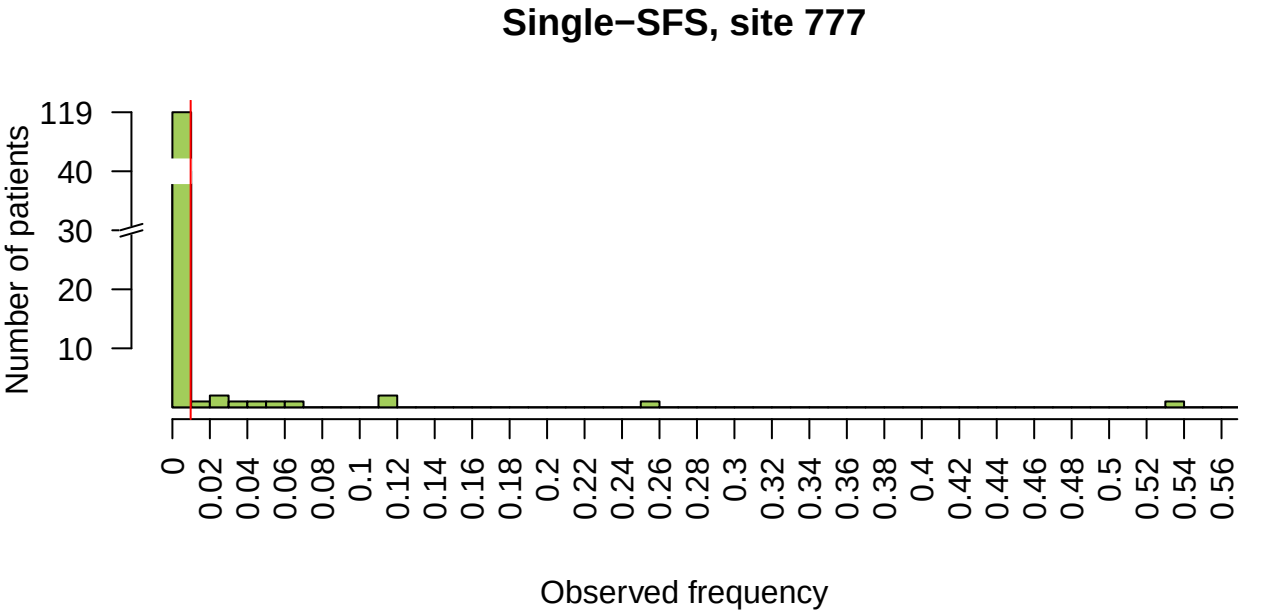

Simulated data, cost 0.0286
Number of patients
154
40
30
20
10
pvalue= 0.57
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
Observed frequency

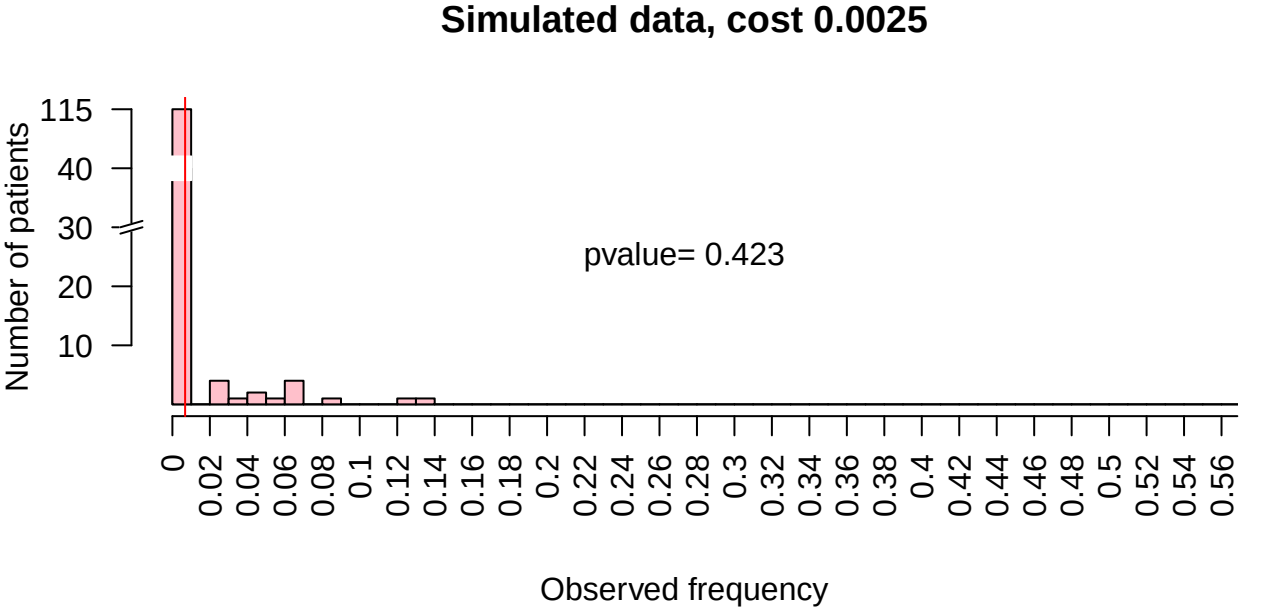

Single−SFS, site 775
Number of patients
145
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
Observed frequency

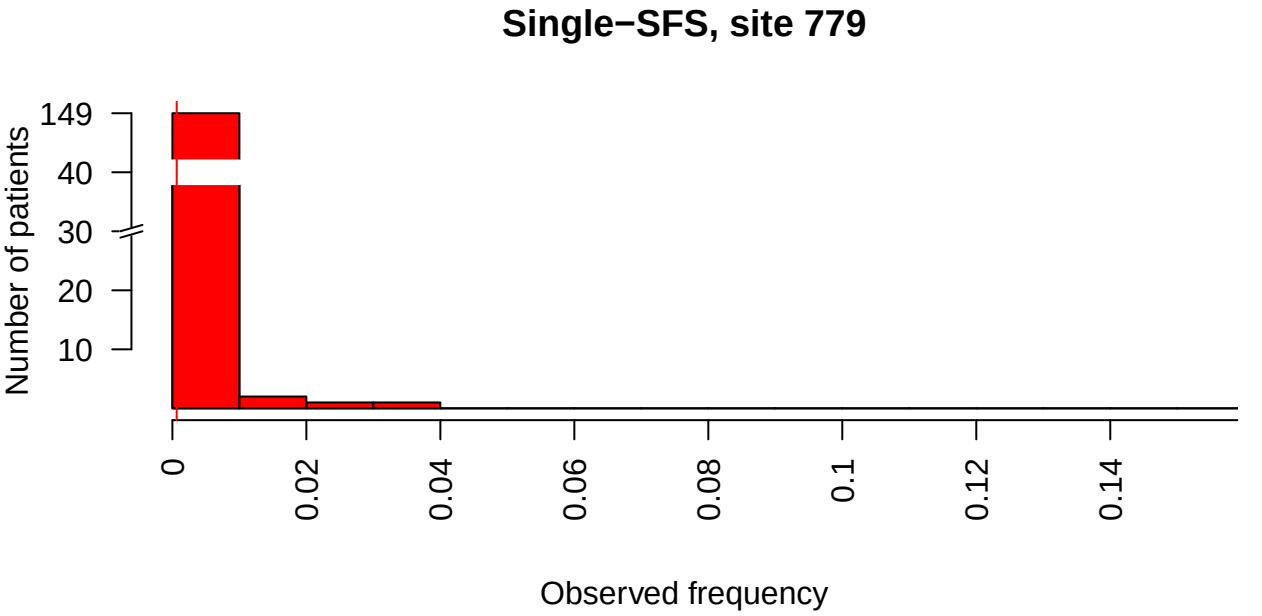

Simulated data, cost 0.0074
Number of patients
146
40
30
20
10
pvalue= 0.786
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
Observed frequency

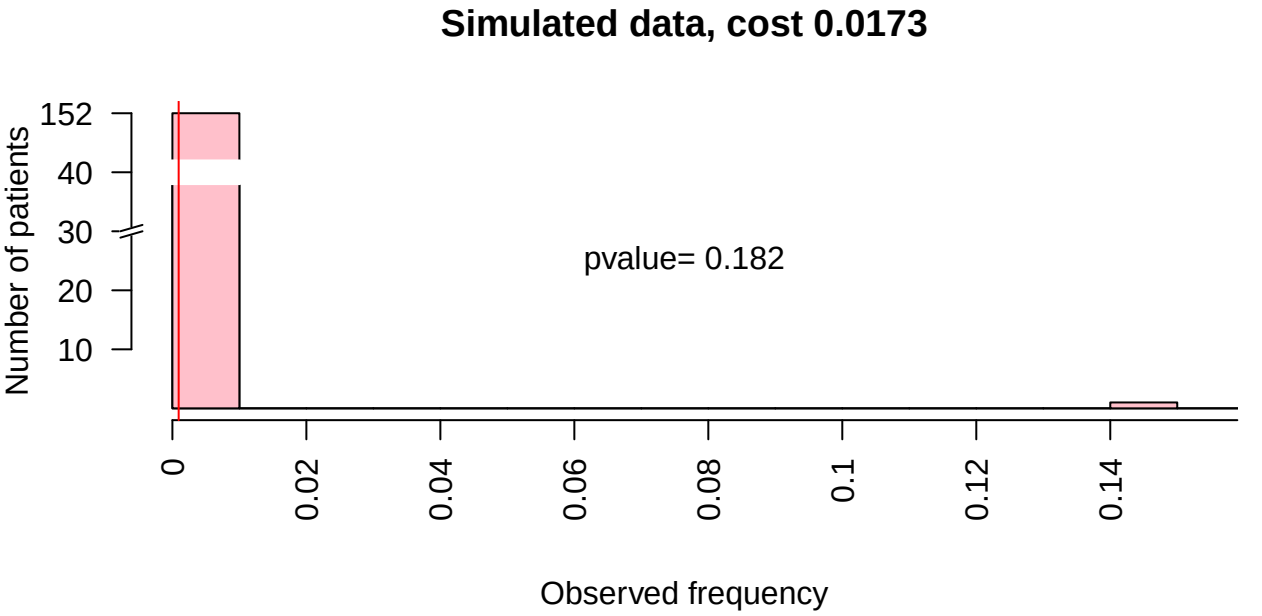

Single−SFS, site 776
Number of patients
139
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
Observed frequency

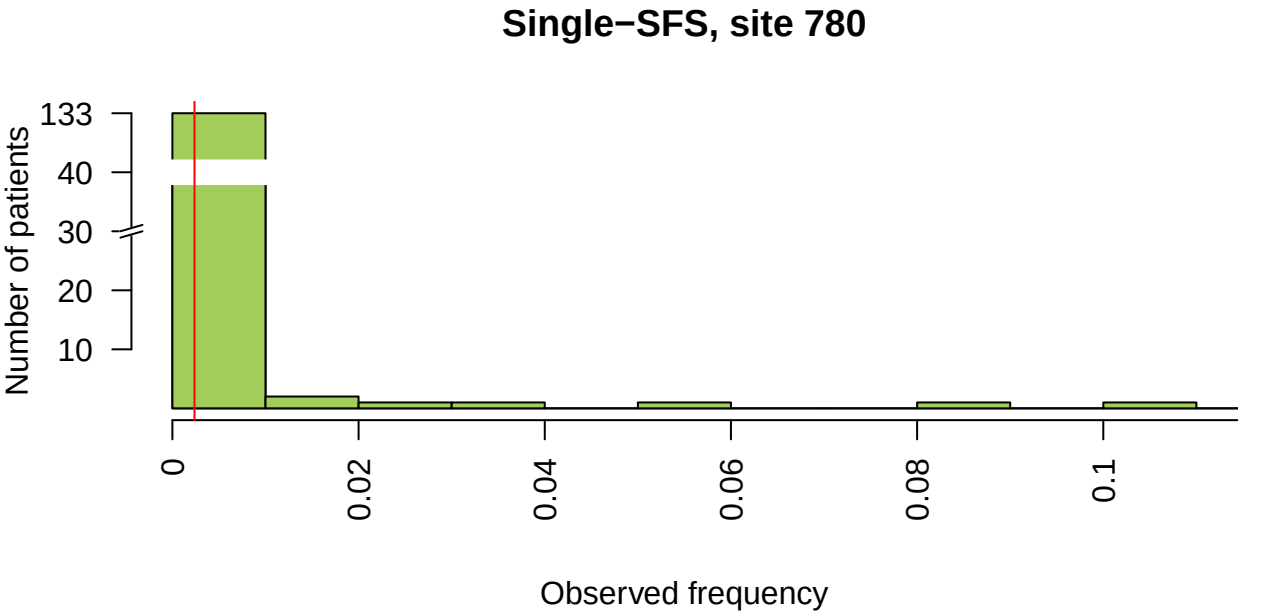

Simulated data, cost 0.0065
Number of patients
144
40
30
20
10
pvalue= 0.179
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
Observed frequency

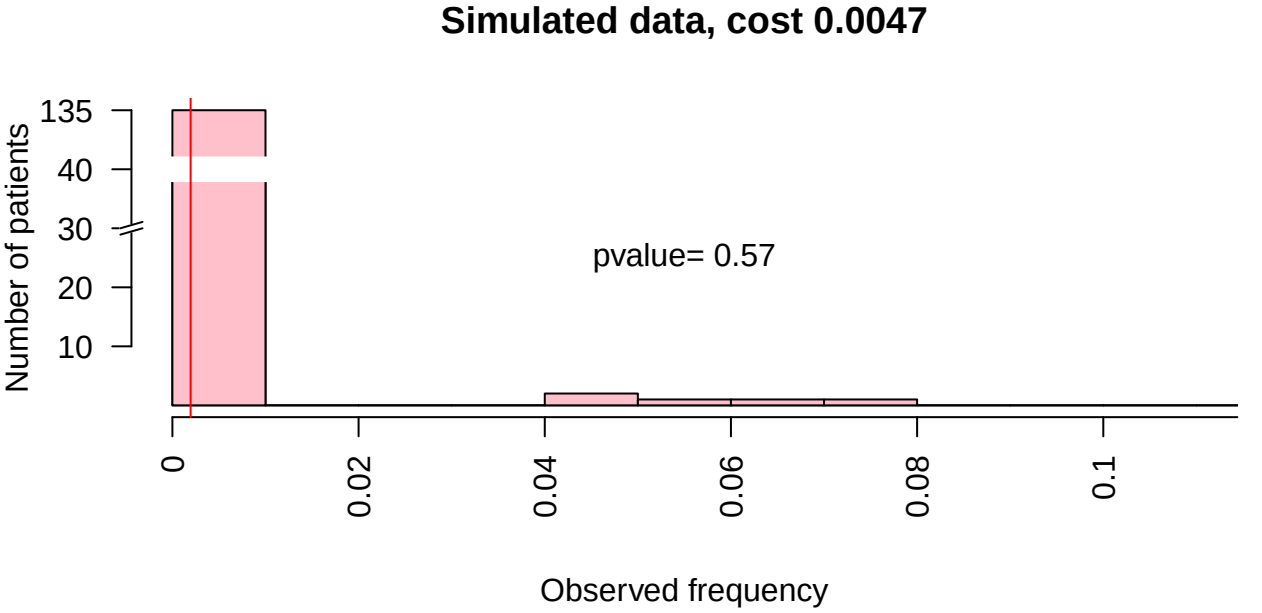

Single−SFS, site 777
Number of patients
119
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
0.24
0.26
0.28
0.3
0.32
0.34
0.36
0.38
0.4
0.42
0.44
0.46
0.48
0.5
0.52
0.54
0.56
Observed frequency

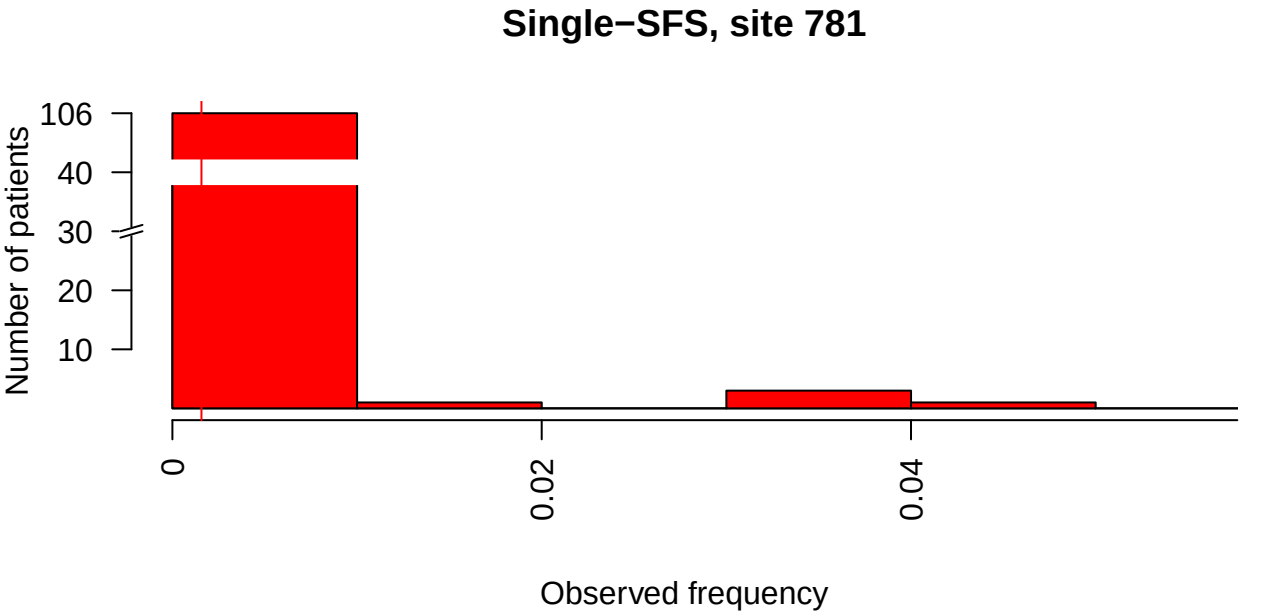

Simulated data, cost 0.0025
Number of patients
115
40
30
20
10
pvalue= 0.423
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
0.24
0.26
0.28
0.3
0.32
0.34
0.36
0.38
0.4
0.42
0.44
0.46
0.48
0.5
0.52
0.54
0.56
Observed frequency

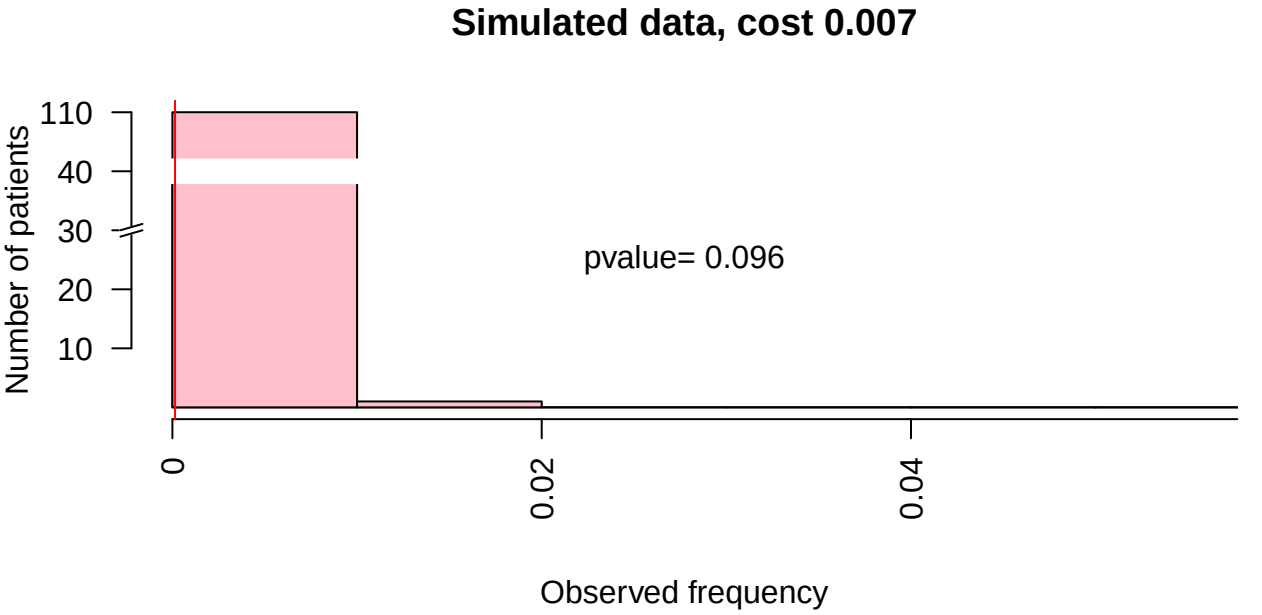

Single−SFS, site 779
Number of patients
149
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
Observed frequency

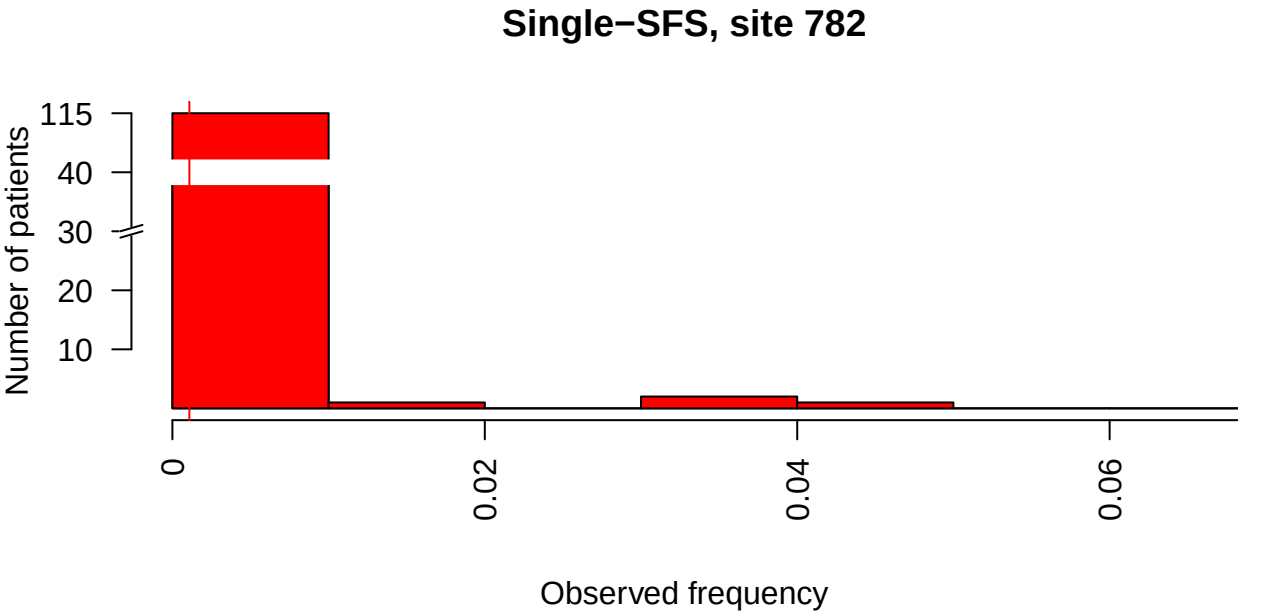

Simulated data, cost 0.0173
Number of patients
152
40
30
20
10
pvalue= 0.182
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
Observed frequency

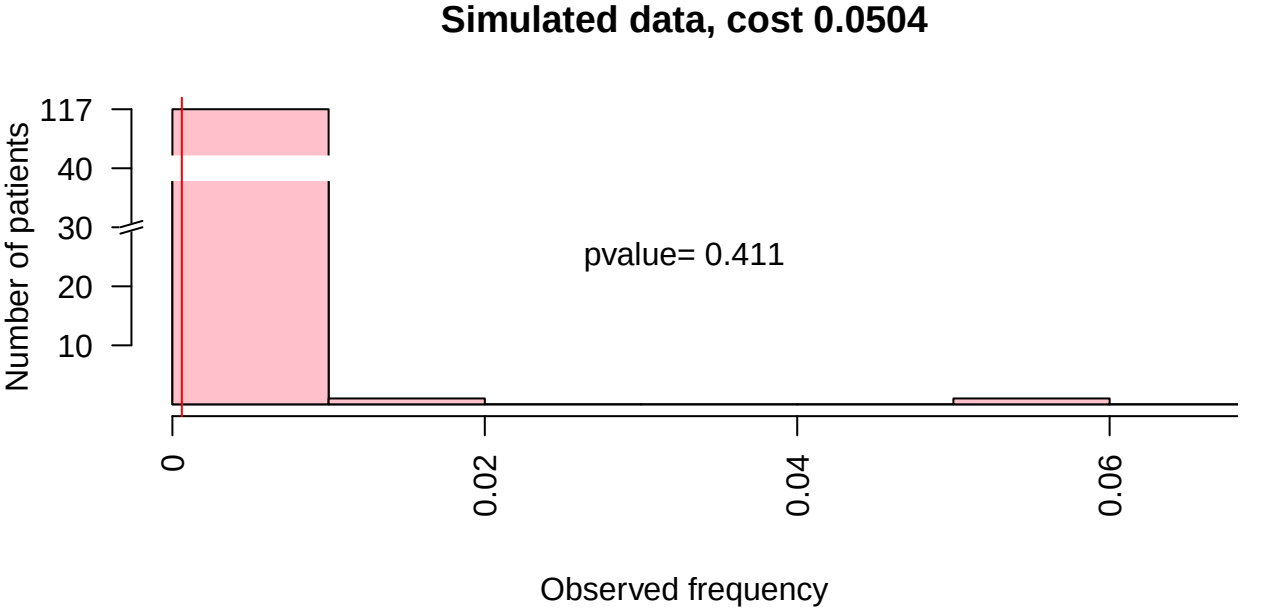

Single−SFS, site 780
Number of patients
133
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
Observed frequency

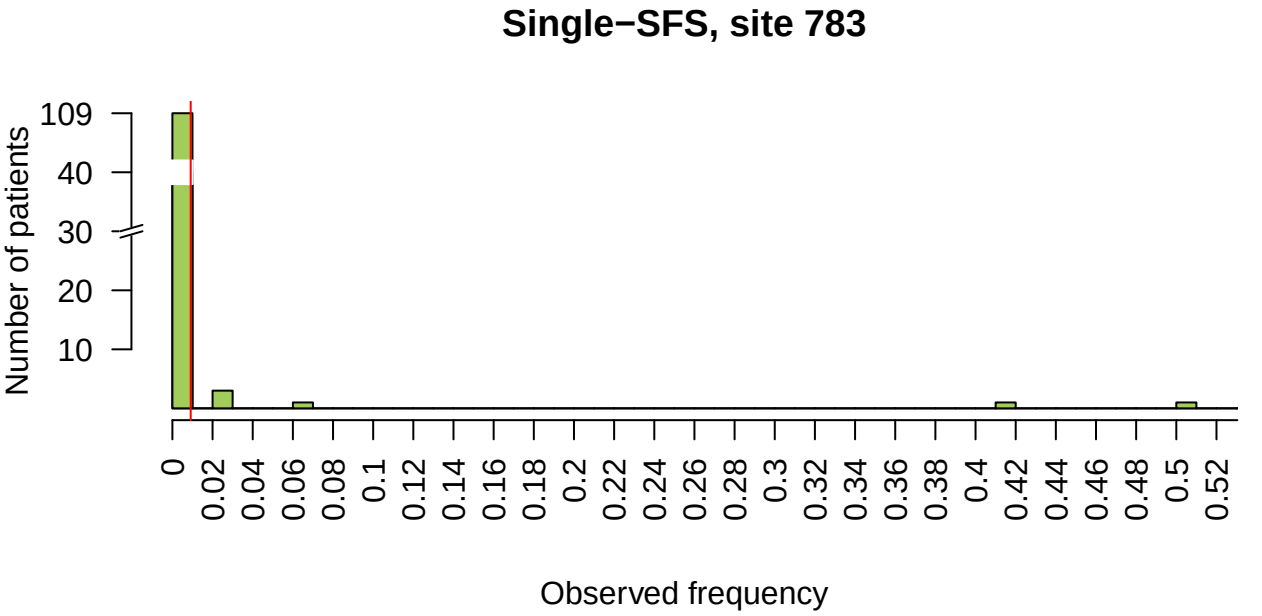

Simulated data, cost 0.0047
Number of patients
135
40
30
20
10
pvalue= 0.57
0
0.02
0.04
0.06
0.08
0.1
Observed frequency

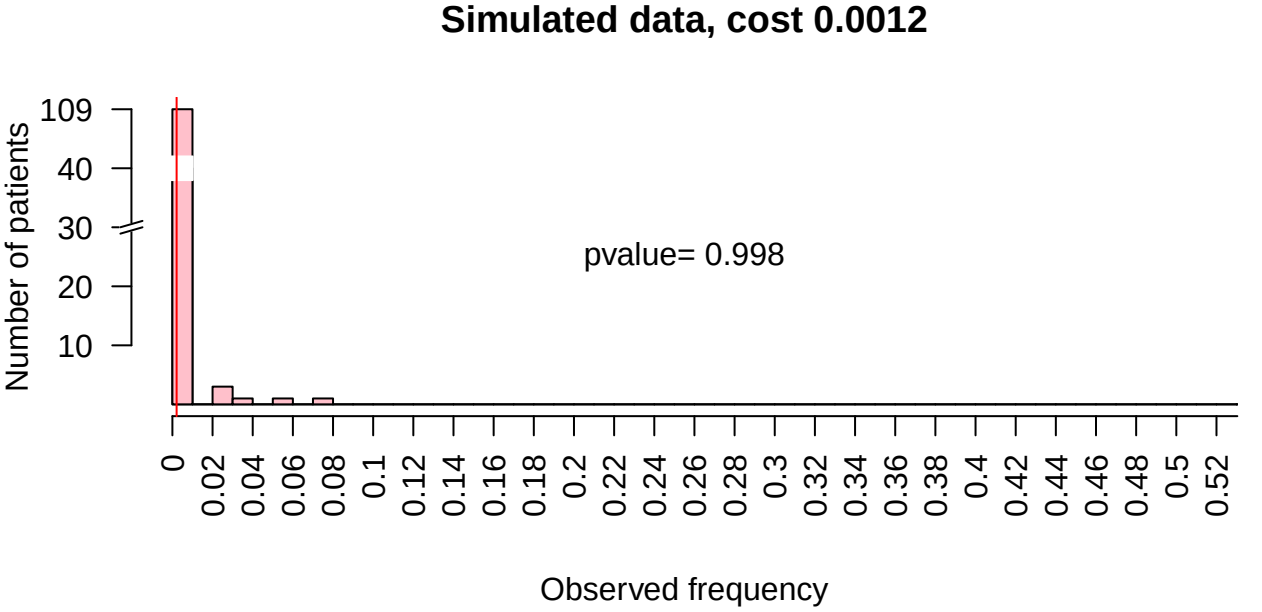

Single−SFS, site 781
Number of patients
106
40
30
20
10
0
0.02
0.04
Observed frequency

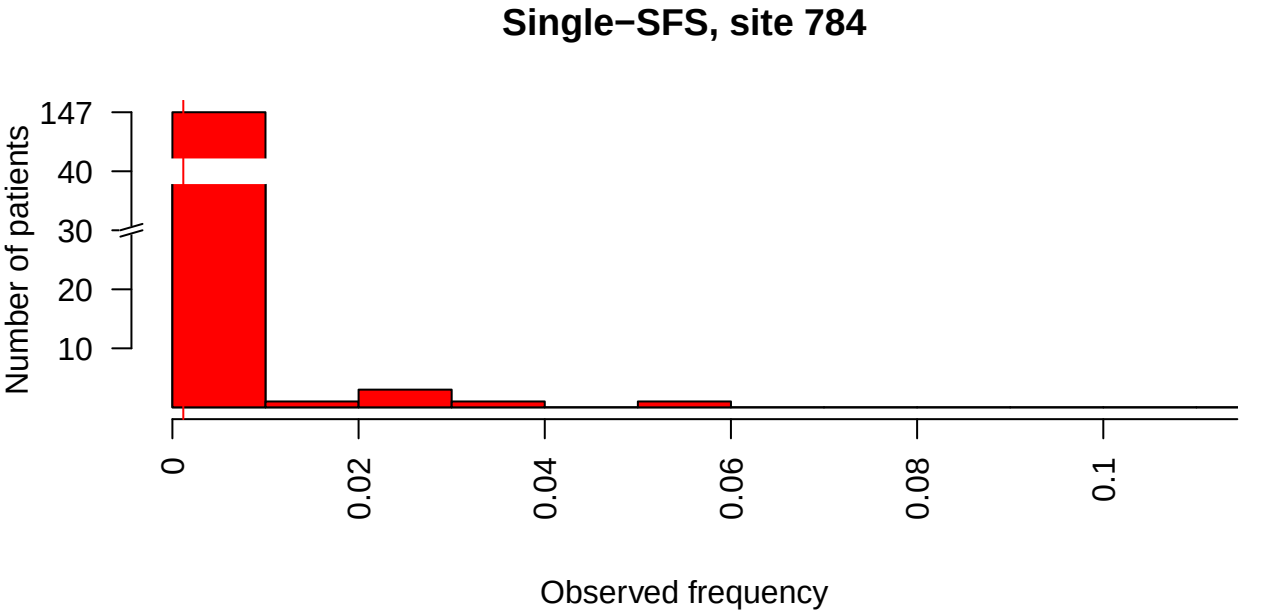

Simulated data, cost 0.007
Number of patients
110
40
30
20
10
pvalue= 0.096
0
0.02
0.04
Observed frequency

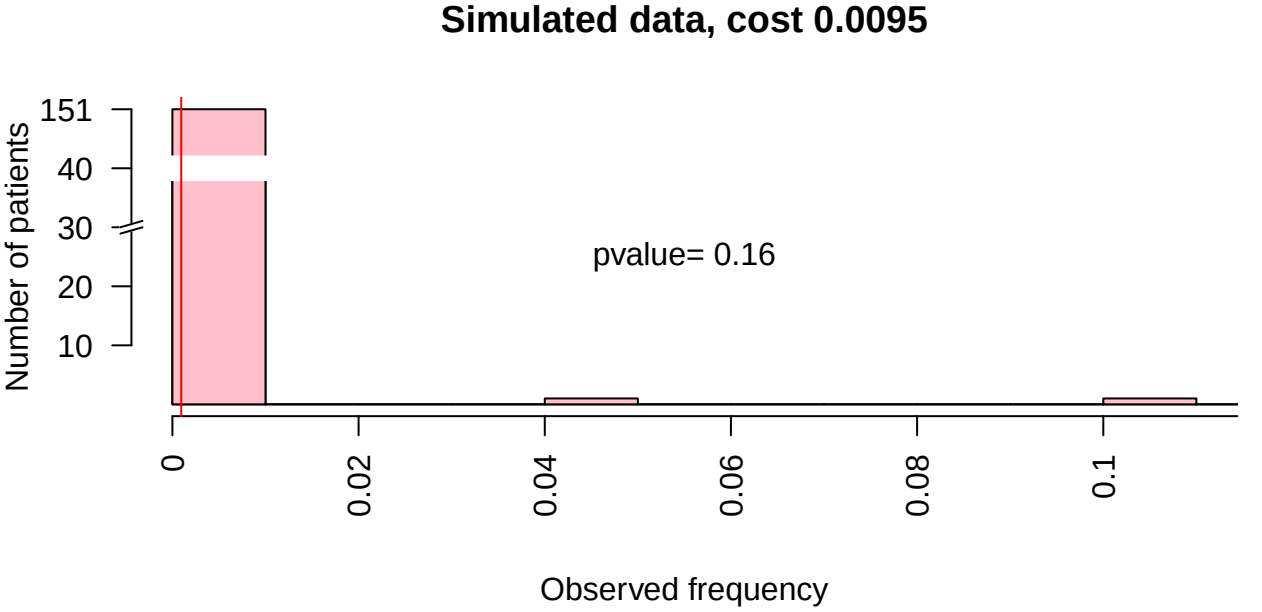

Single−SFS, site 782
Number of patients
115
40
30
20
10
0
0.02
0.04
0.06
Observed frequency

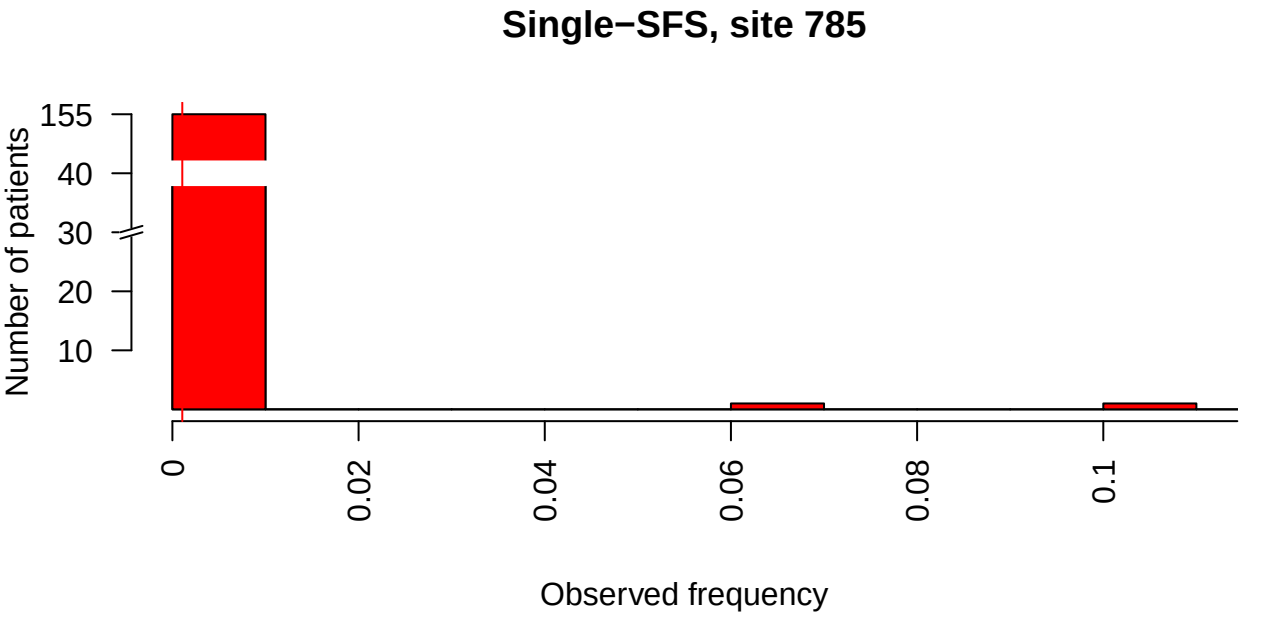

Simulated data, cost 0.0504
Number of patients
117
40
30
20
10
pvalue= 0.411
0
0.02
0.04
0.06
Observed frequency

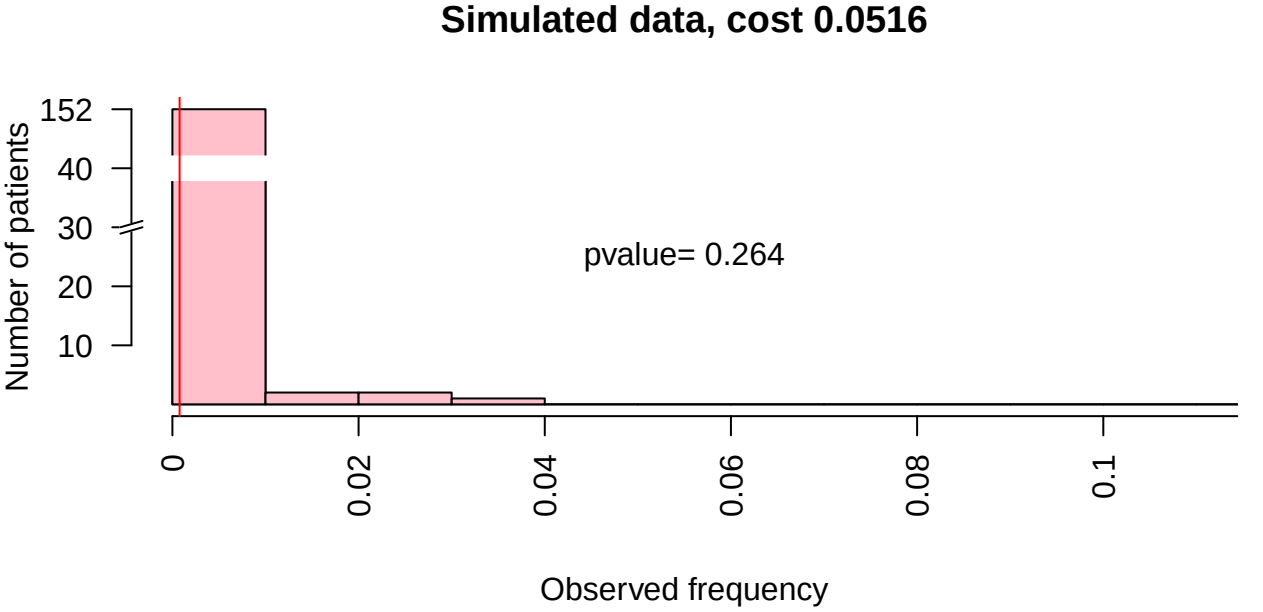

Single−SFS, site 783
Number of patients
109
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
0.24
0.26
0.28
0.3
0.32
0.34
0.36
0.38
0.4
0.42
0.44
0.46
0.48
0.5
0.52
Observed frequency

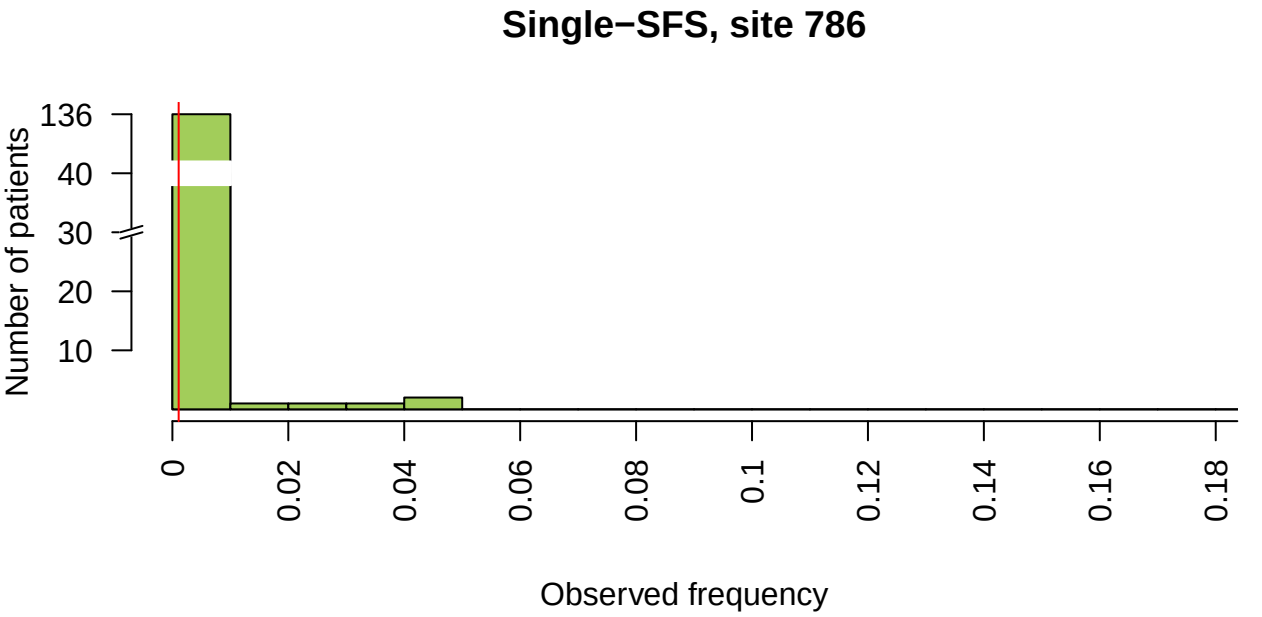

Simulated data, cost 0.0012
Number of patients
109
40
30
20
10
pvalue= 0.998
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
0.24
0.26
0.28
0.3
0.32
0.34
0.36
0.38
0.4
0.42
0.44
0.46
0.48
0.5
0.52
Observed frequency

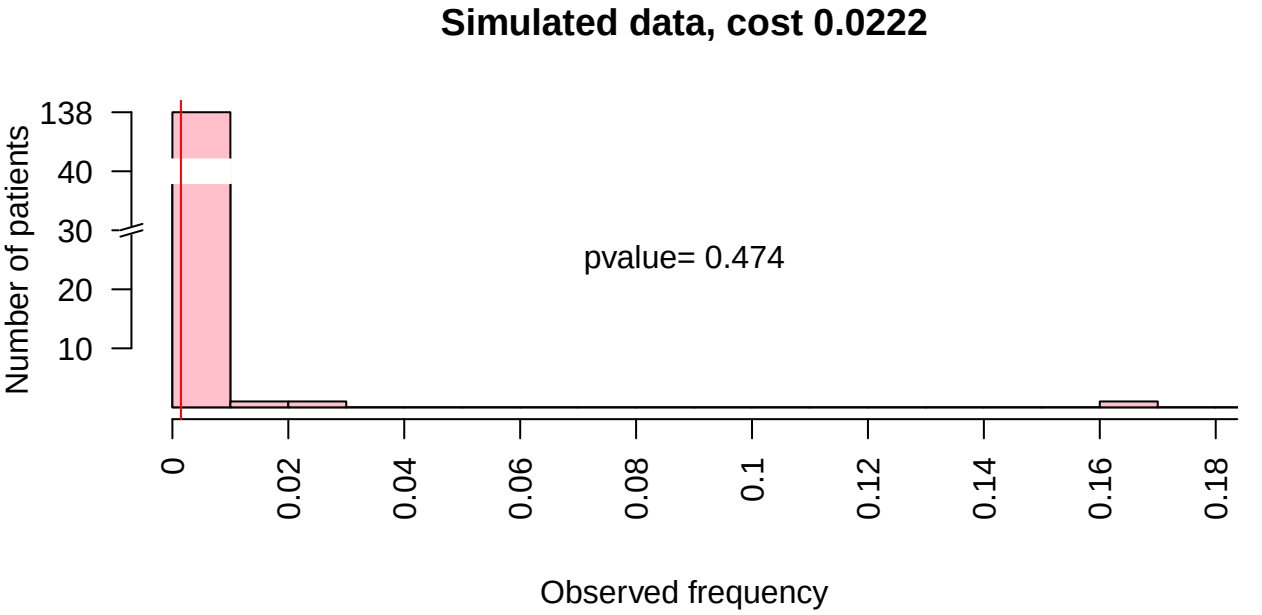

Single−SFS, site 784
Number of patients
147
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
Observed frequency

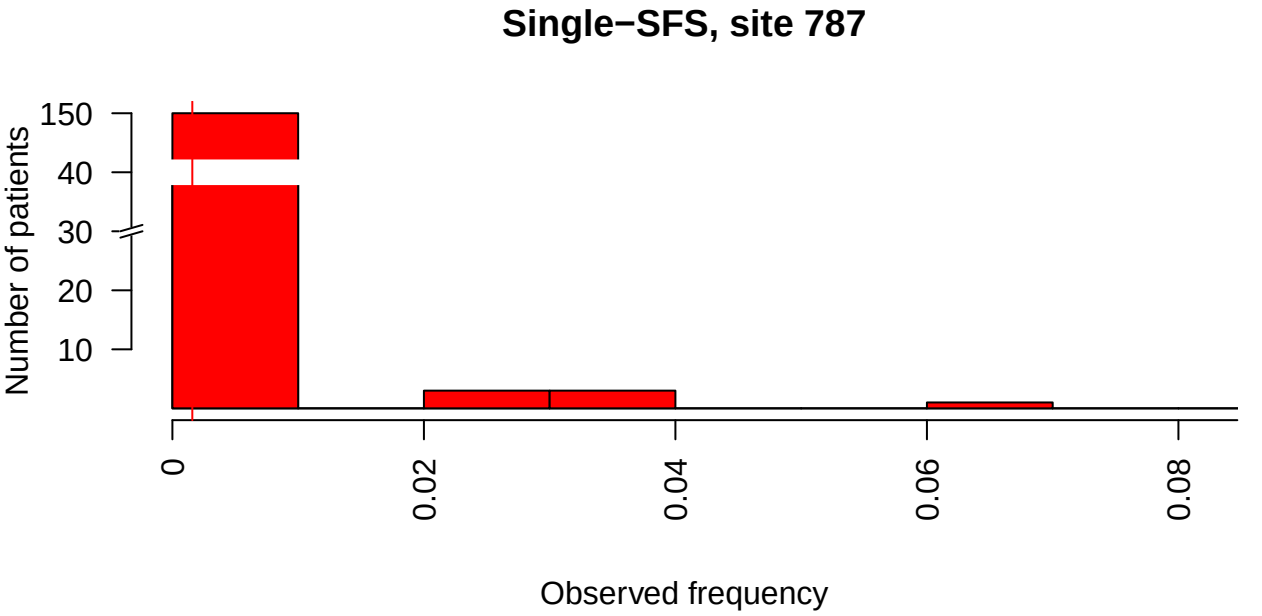

Simulated data, cost 0.0095
Number of patients
151
40
30
20
10
pvalue= 0.16
0
0.02
0.04
0.06
0.08
0.1
Observed frequency

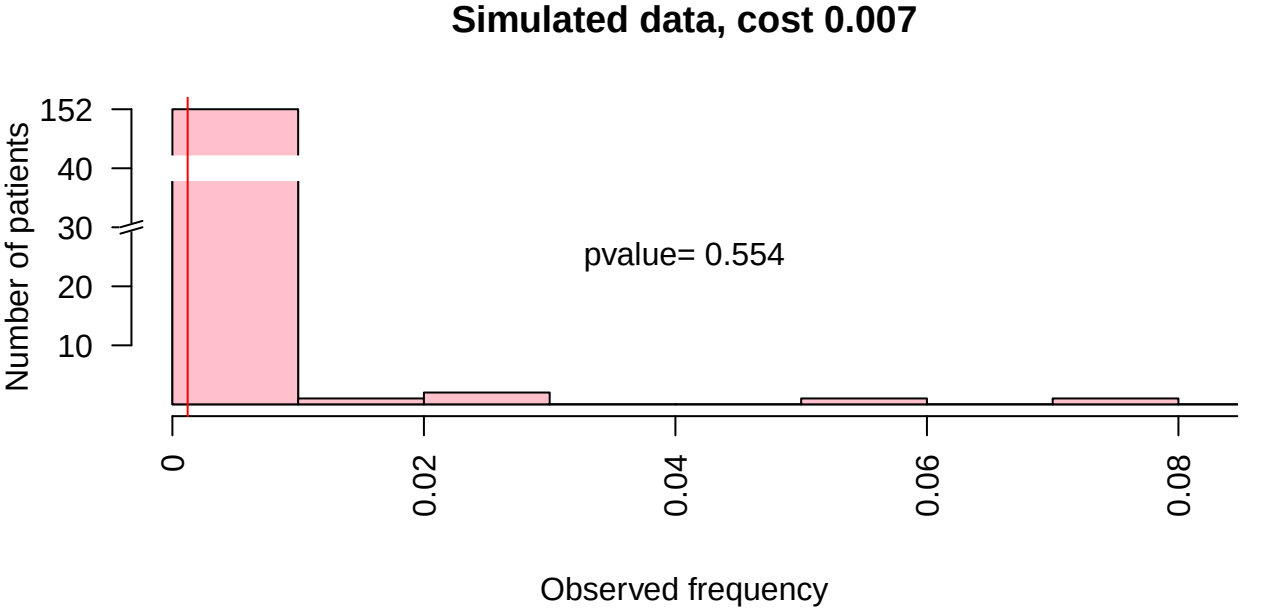

Single−SFS, site 785
Number of patients
155
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
Observed frequency

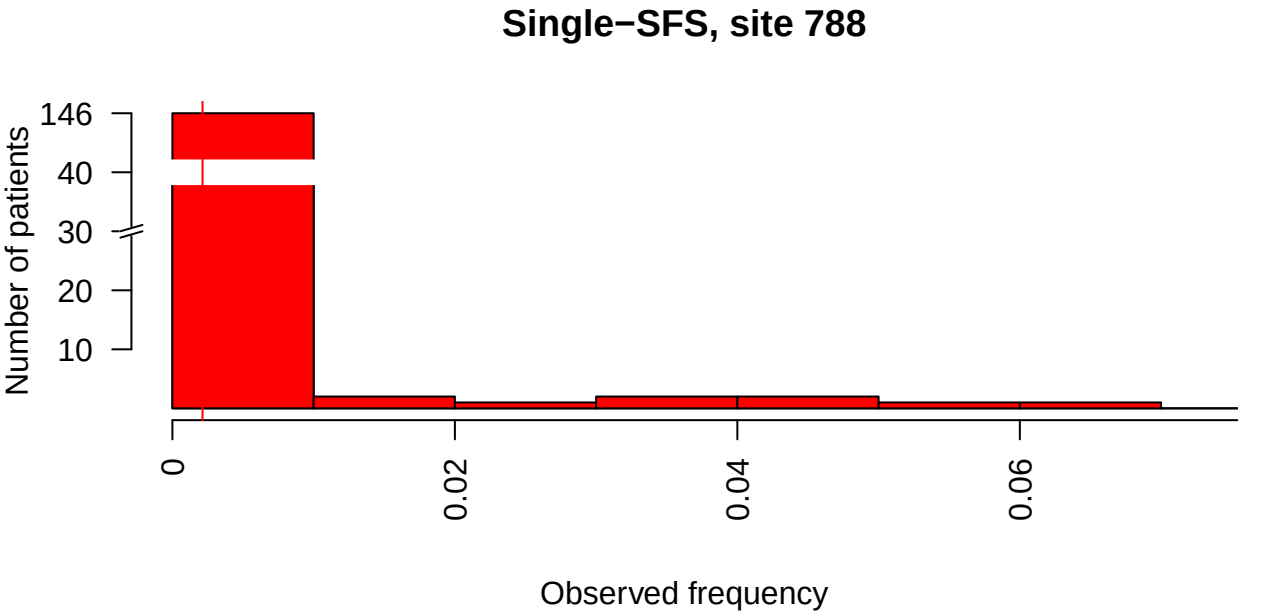

Simulated data, cost 0.0516
Number of patients
152
40
30
20
10
pvalue= 0.264
0
0.02
0.04
0.06
0.08
0.1
Observed frequency

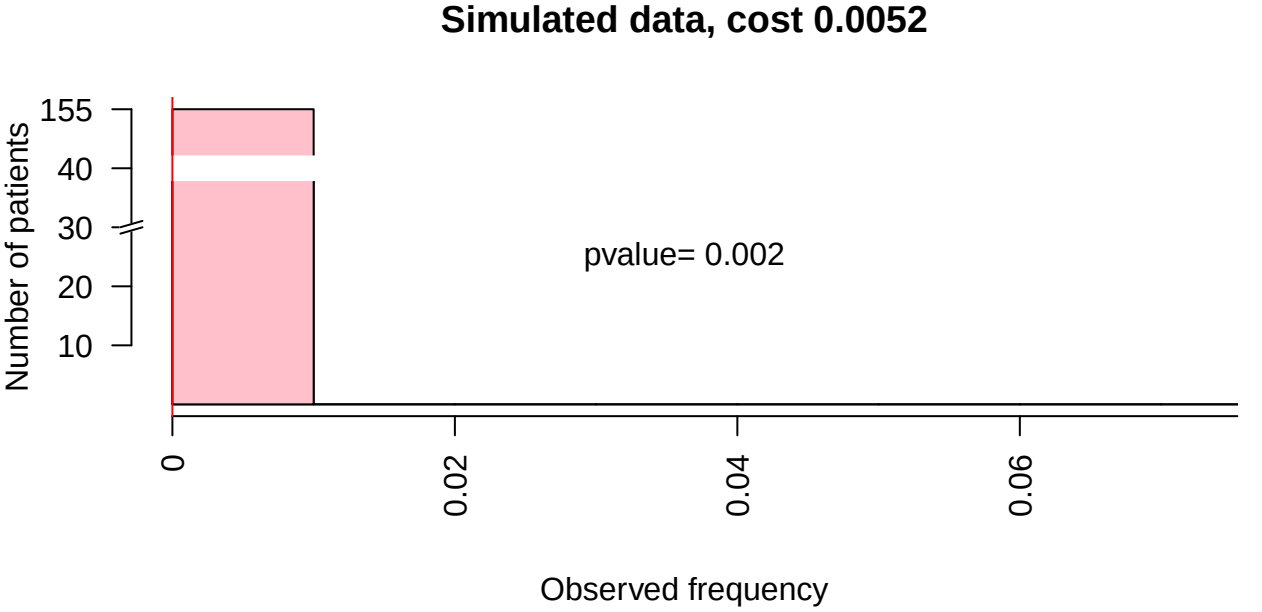

Single−SFS, site 786
Number of patients
136
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
Observed frequency

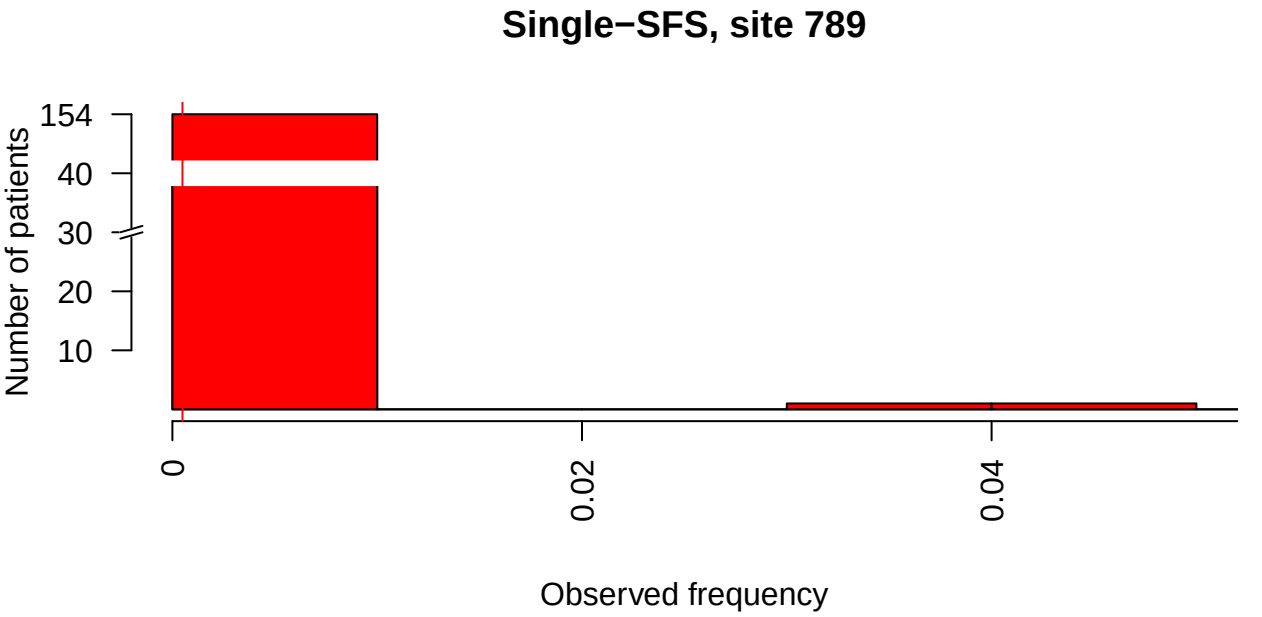

Simulated data, cost 0.0222
Number of patients
138
40
30
20
10
pvalue= 0.474
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
Observed frequency

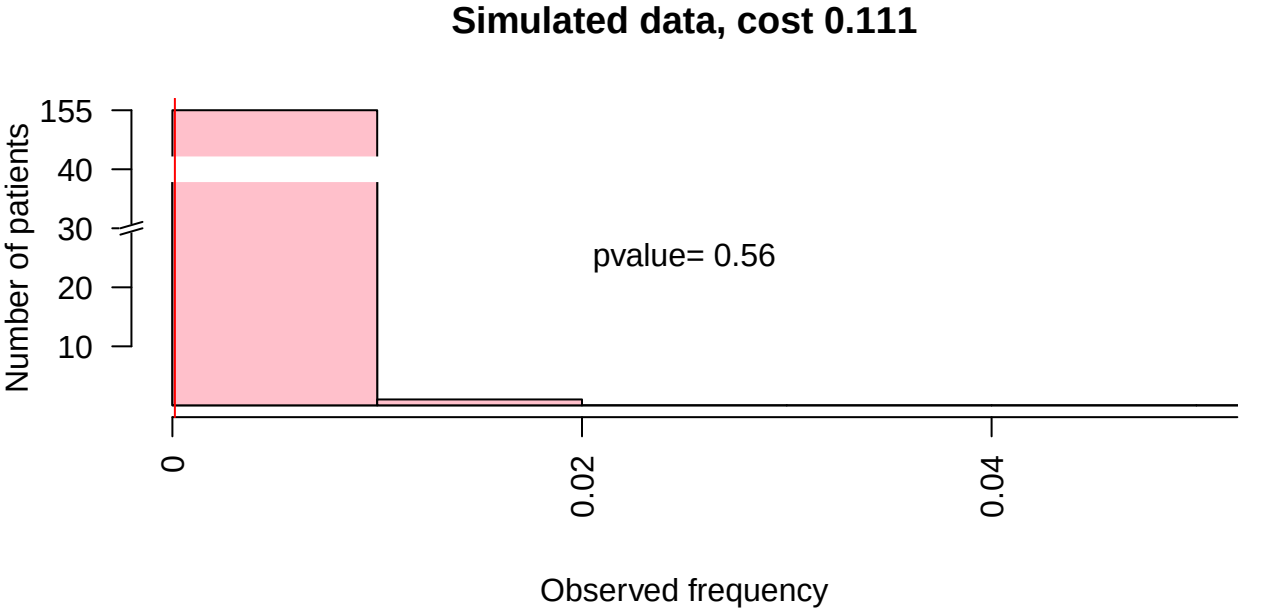

Single−SFS, site 787
Number of patients
150
40
30
20
10
0
0.02
0.04
0.06
0.08
Observed frequency

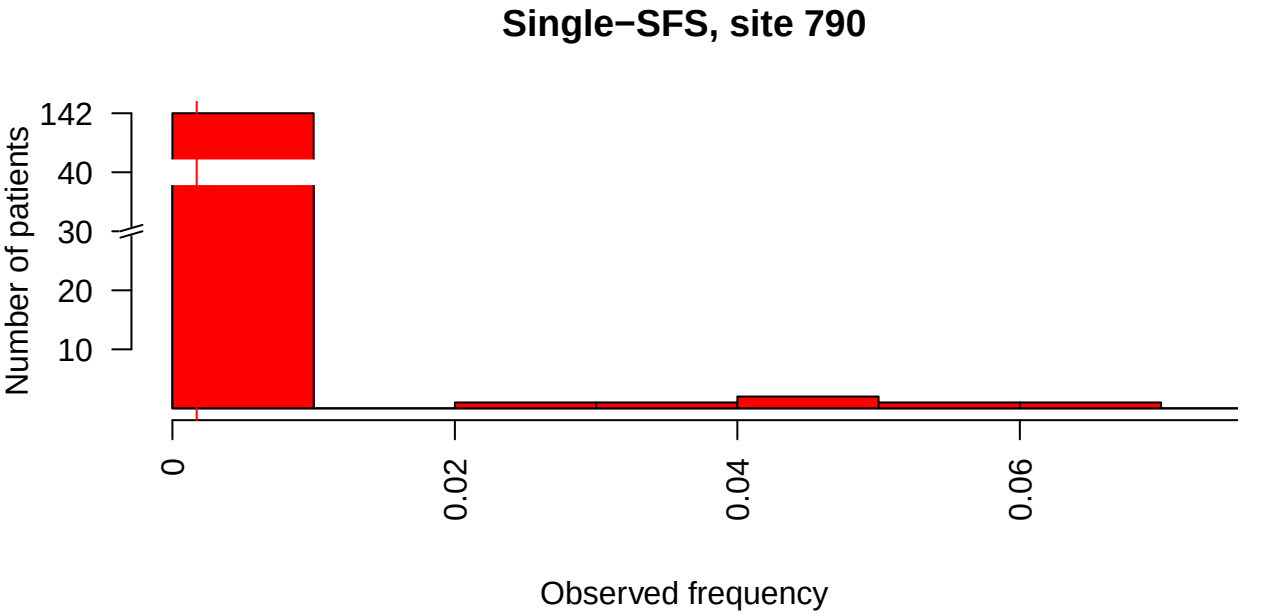

Simulated data, cost 0.007
Number of patients
152
40
30
20
10
pvalue= 0.554
0
0.02
0.04
0.06
0.08
Observed frequency

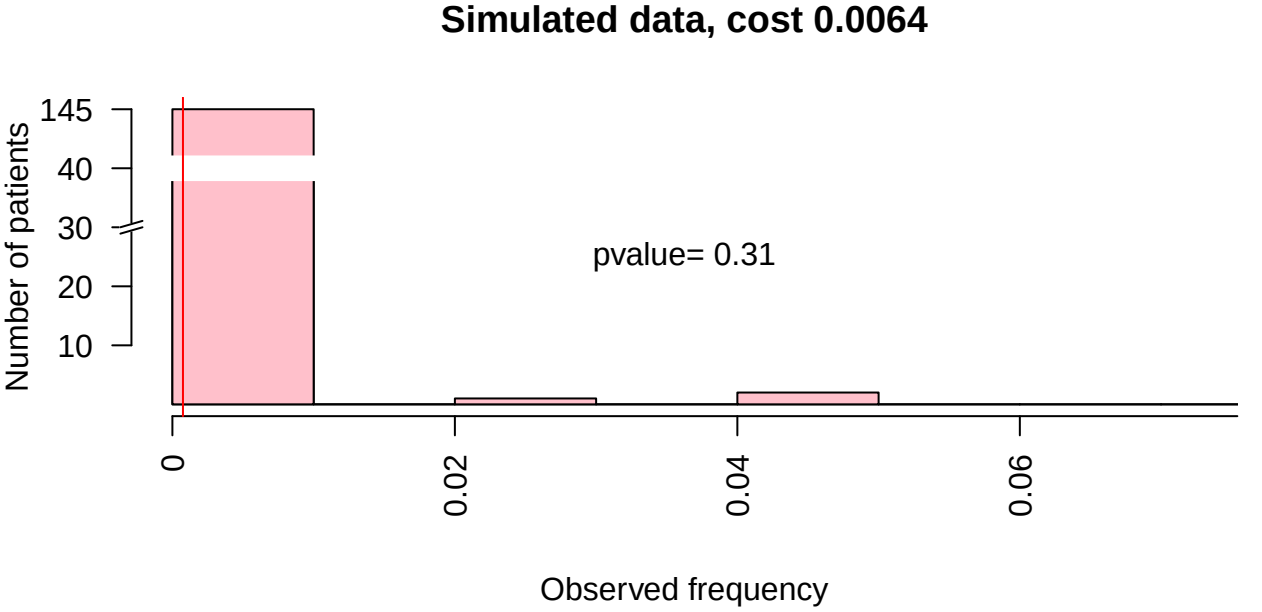

Single−SFS, site 788
Number of patients
146
40
30
20
10
0
0.02
0.04
0.06
Observed frequency

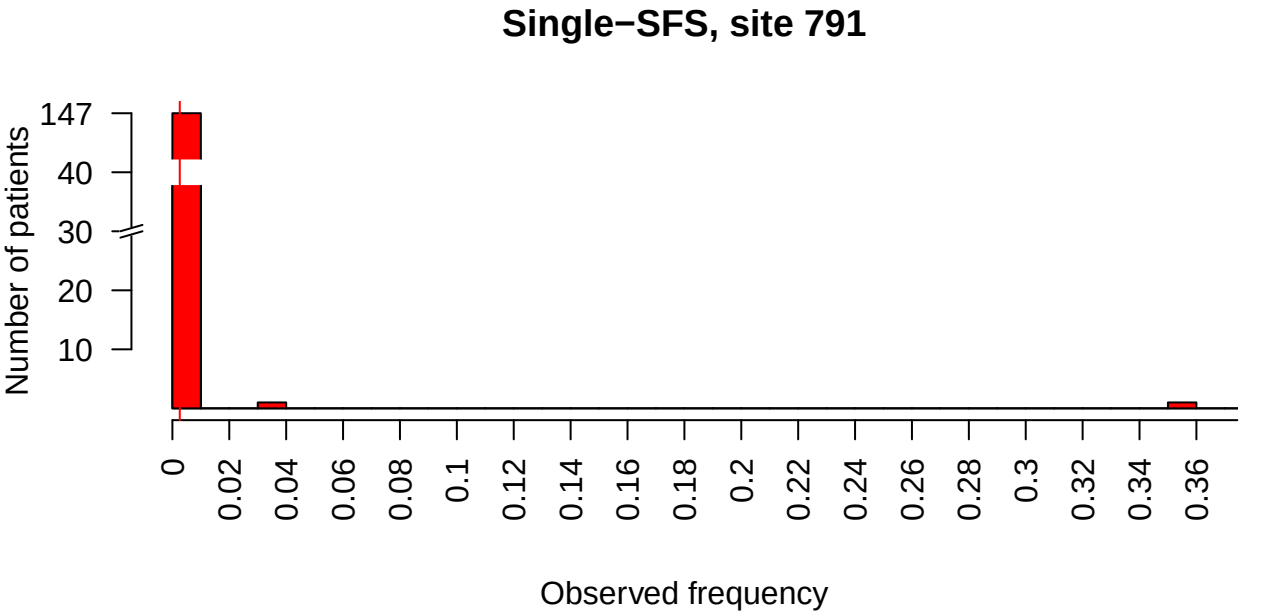

Simulated data, cost 0.0052
Number of patients
155
40
30
20
10
pvalue= 0.002
0
0.02
0.04
0.06
Observed frequency

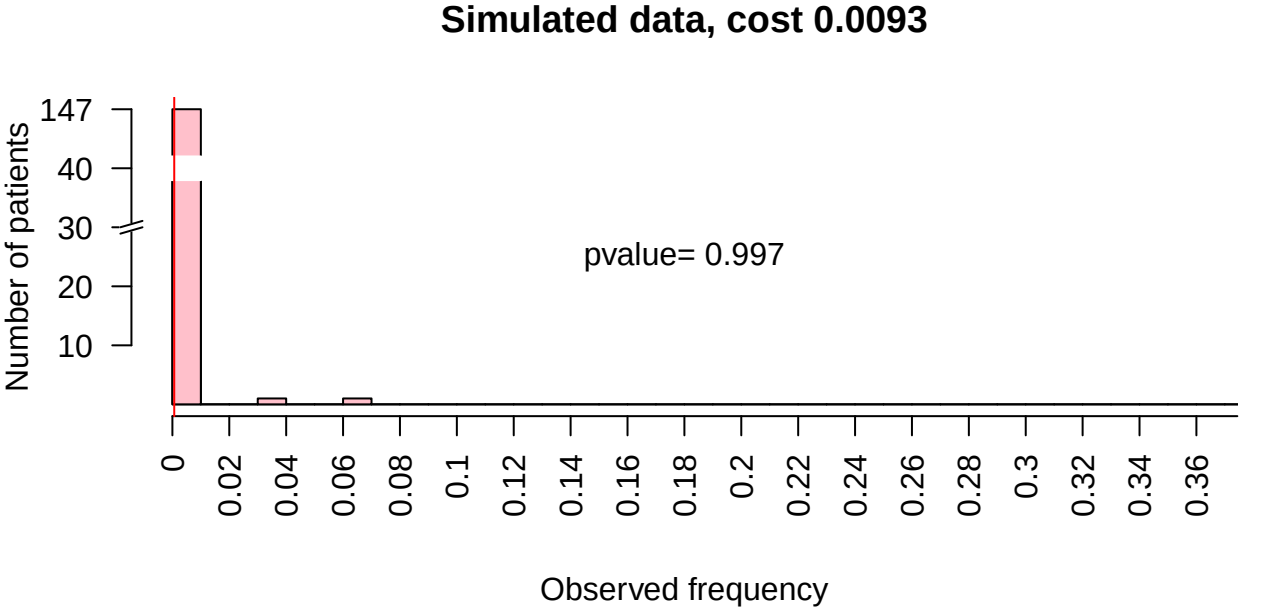

Single−SFS, site 789
Number of patients
154
40
30
20
10
0
0.02
0.04
Observed frequency

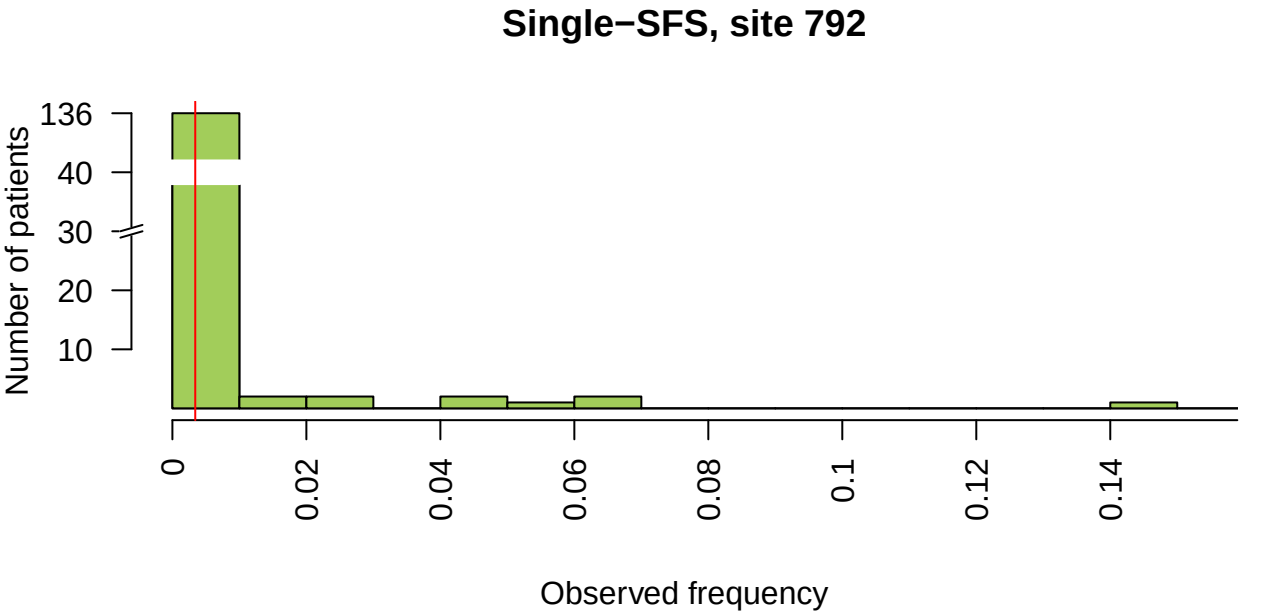

Simulated data, cost 0.111
Number of patients
155
40
30
20
10
pvalue= 0.56
0
0.02
0.04
Observed frequency

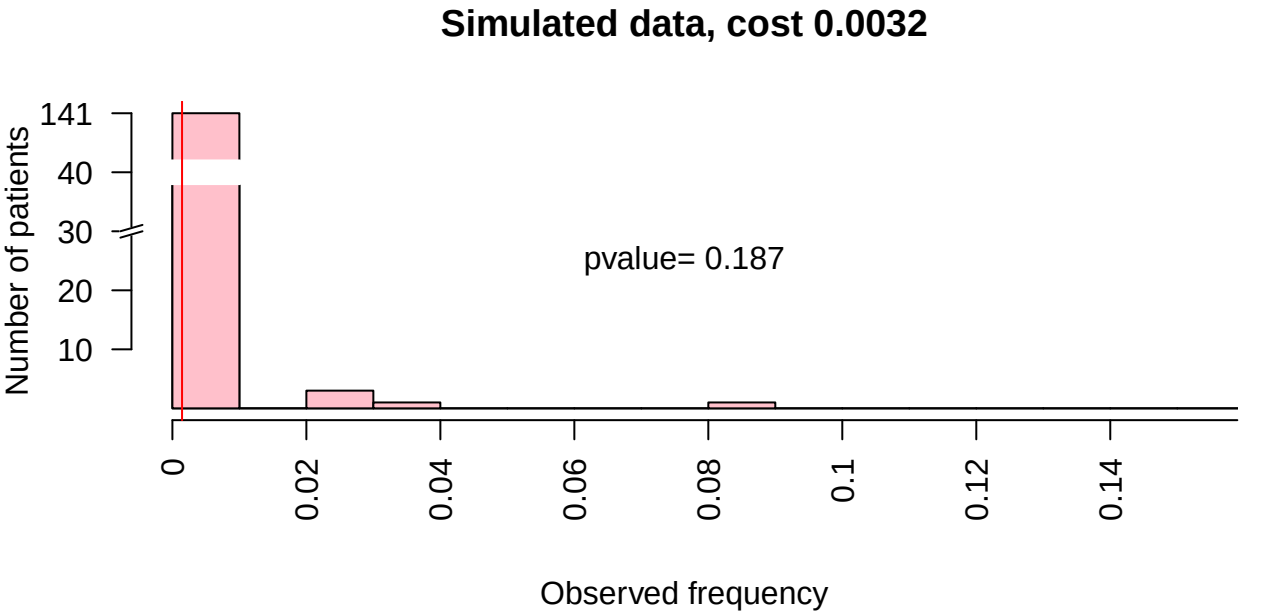

Single−SFS, site 790
Number of patients
142
40
30
20
10
0
0.02
0.04
0.06
Observed frequency

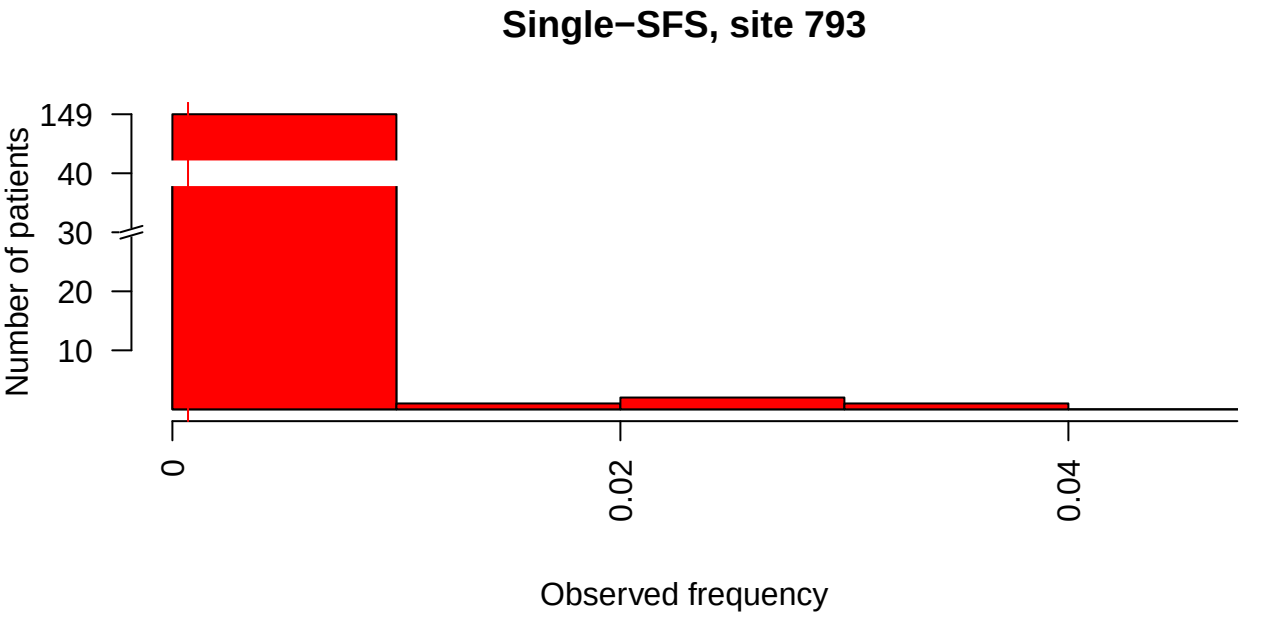

Simulated data, cost 0.0064
Number of patients
145
40
30
20
10
pvalue= 0.31
0
0.02
0.04
0.06
Observed frequency

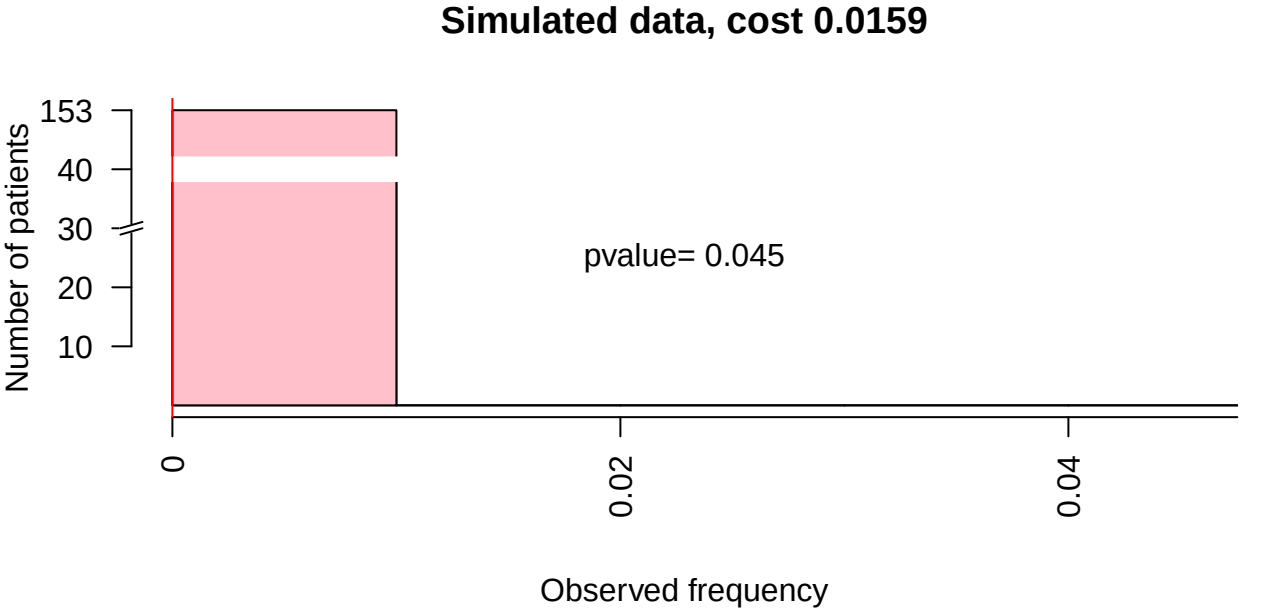

Single−SFS, site 791
Number of patients
147
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
0.24
0.26
0.28
0.3
0.32
0.34
0.36
Observed frequency

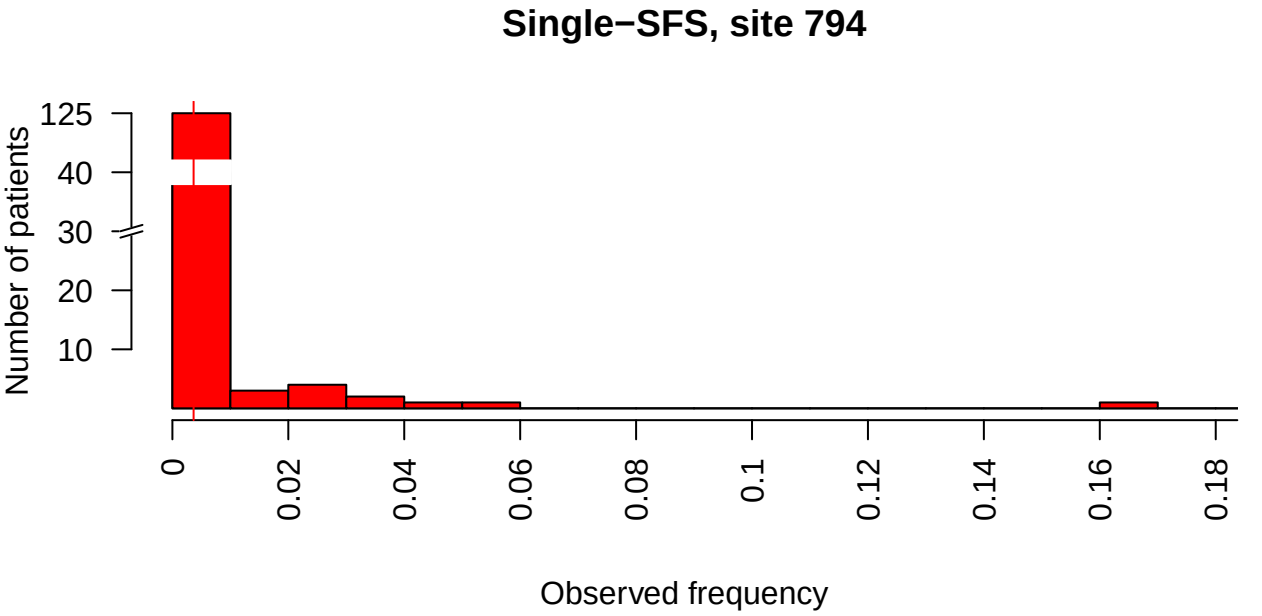

Simulated data, cost 0.0093
Number of patients
147
40
30
20
10
pvalue= 0.997
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
0.24
0.26
0.28
0.3
0.32
0.34
0.36
Observed frequency

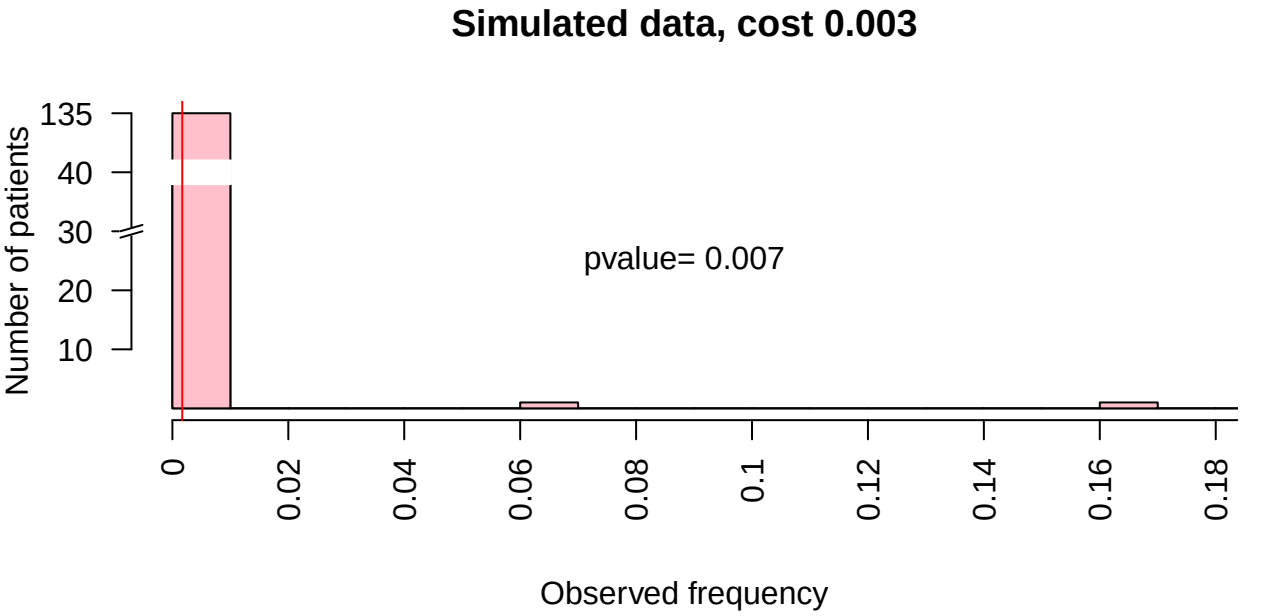

Single−SFS, site 792
Number of patients
136
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
Observed frequency

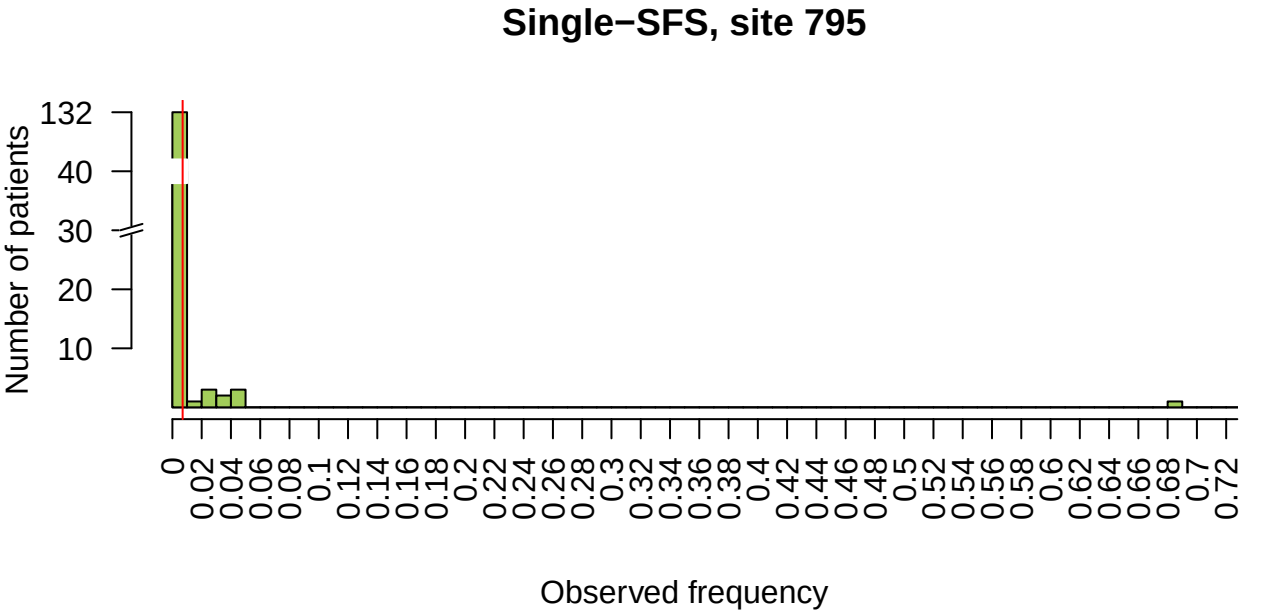

Simulated data, cost 0.0032
Number of patients
141
40
30
20
10
pvalue= 0.187
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
Observed frequency

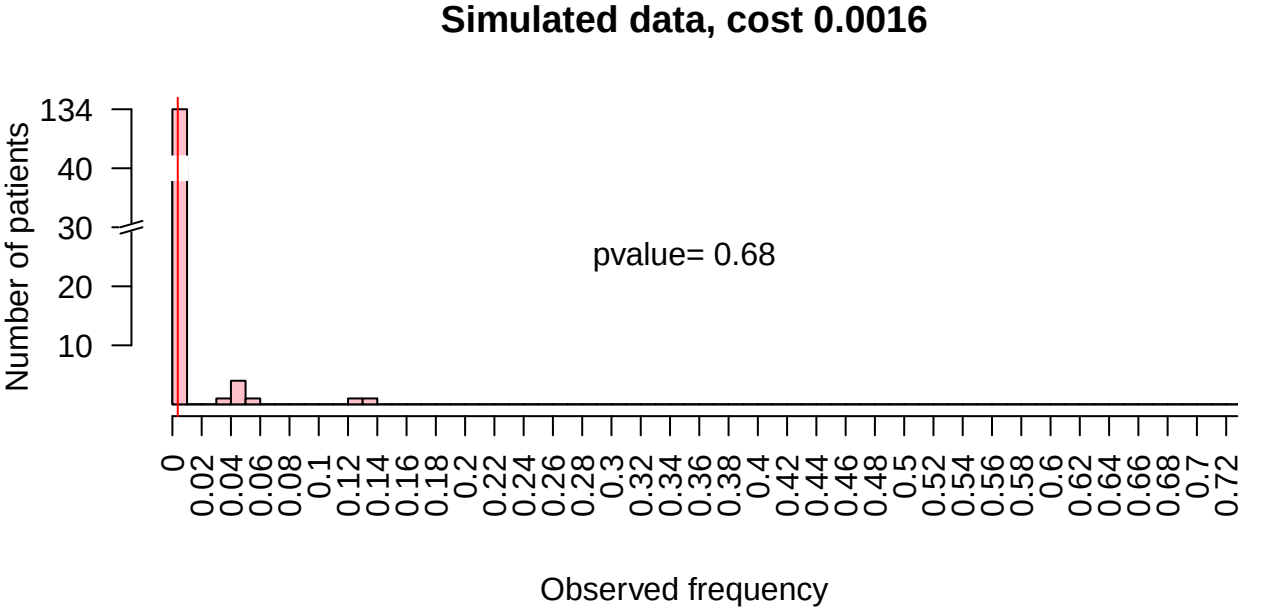

Single−SFS, site 793
Number of patients
149
40
30
20
10
0
0.02
0.04
Observed frequency

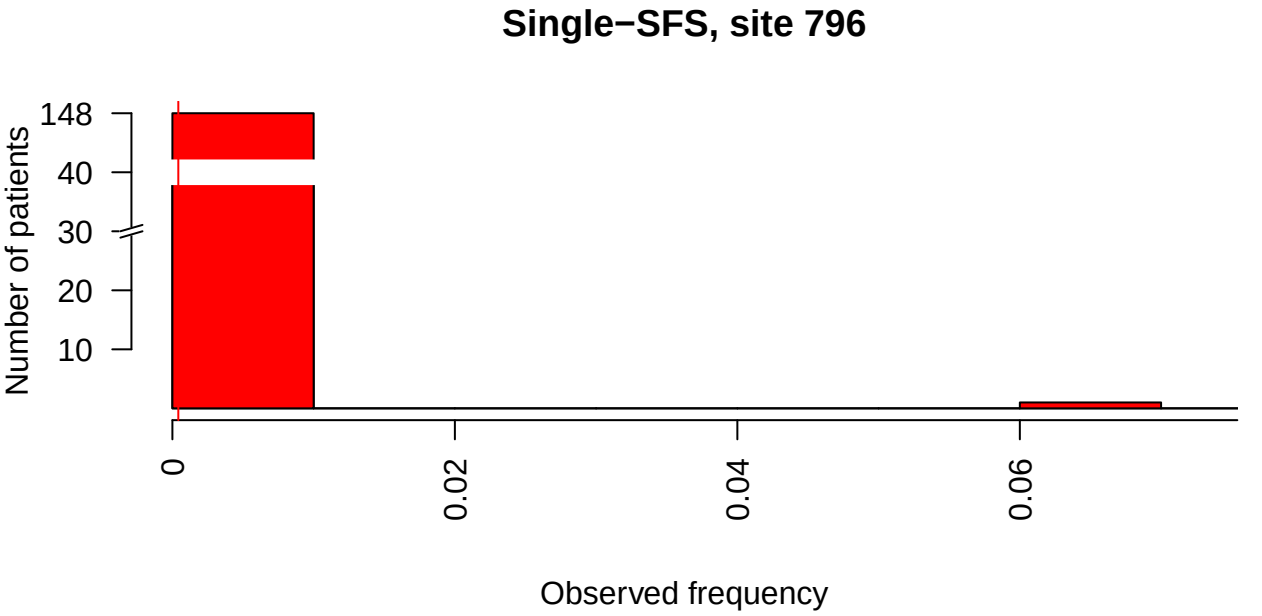

Simulated data, cost 0.0159
Number of patients
153
40
30
20
10
pvalue= 0.045
0
0.02
0.04
Observed frequency

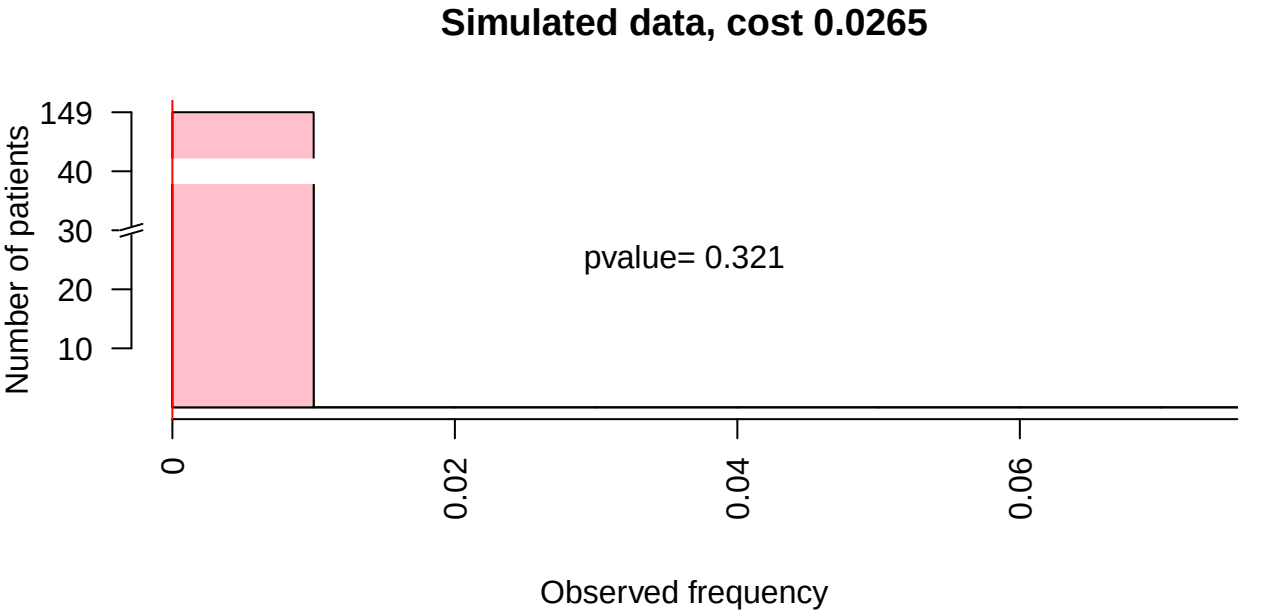

Single−SFS, site 794
Number of patients
125
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
Observed frequency

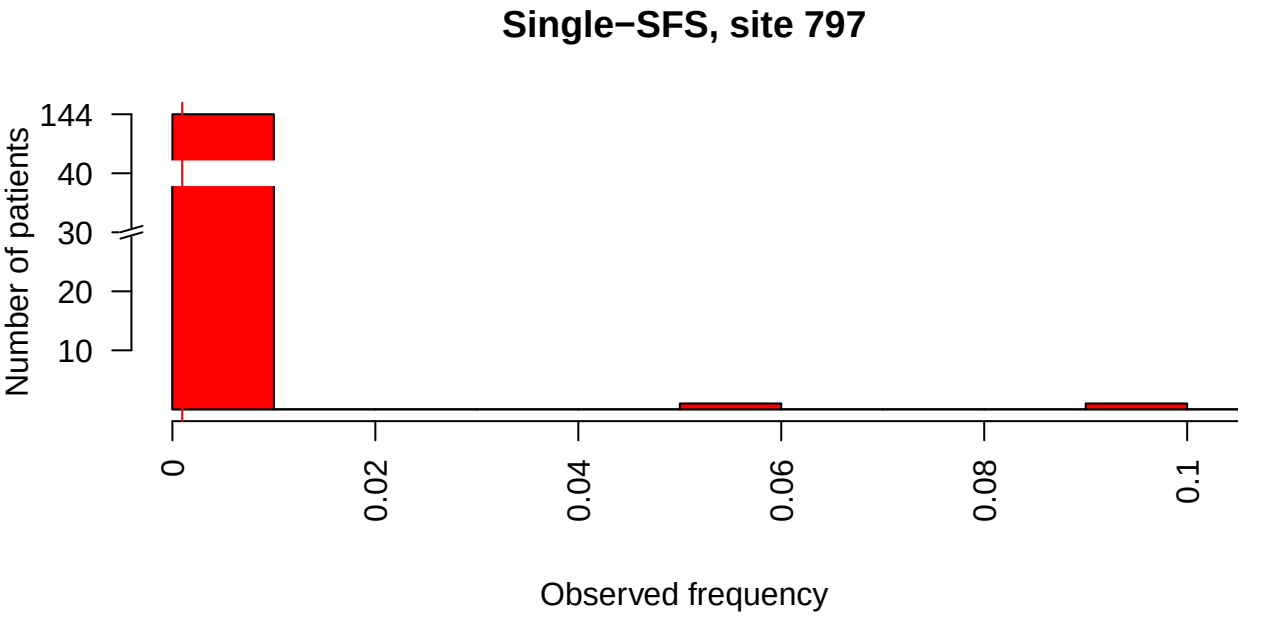

Simulated data, cost 0.003
Number of patients
135
40
30
20
10
pvalue= 0.007
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
Observed frequency

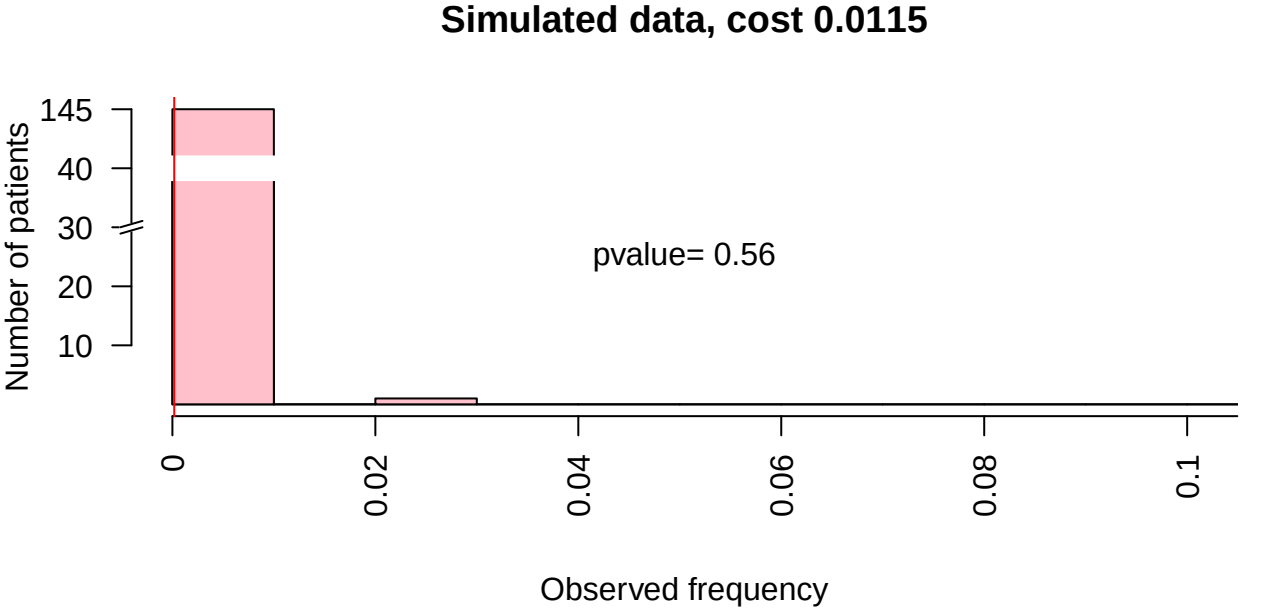

Single−SFS, site 795
Number of patients
132
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
0.24
0.26
0.28
0.3
0.32
0.34
0.36
0.38
0.4
0.42
0.44
0.46
0.48
0.5
0.52
0.54
0.56
0.58
0.6
0.62
0.64
0.66
0.68
0.7
0.72
Observed frequency

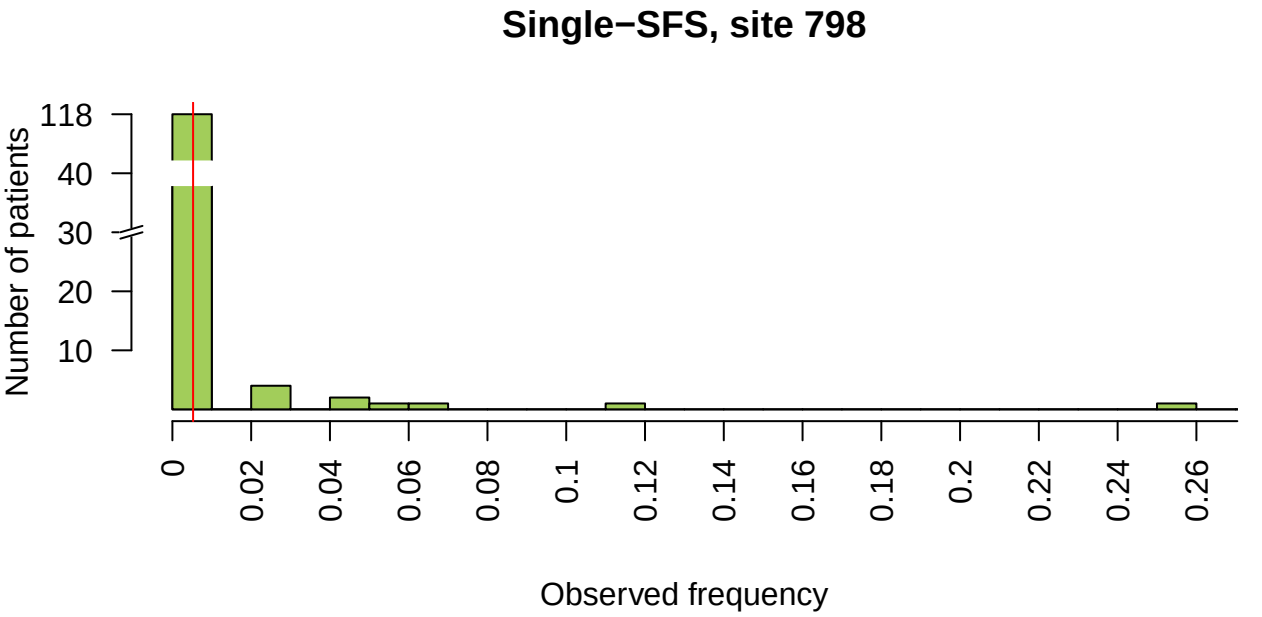

Simulated data, cost 0.0016
Number of patients
134
40
30
20
10
pvalue= 0.68
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
0.24
0.26
0.28
0.3
0.32
0.34
0.36
0.38
0.4
0.42
0.44
0.46
0.48
0.5
0.52
0.54
0.56
0.58
0.6
0.62
0.64
0.66
0.68
0.7
0.72
Observed frequency

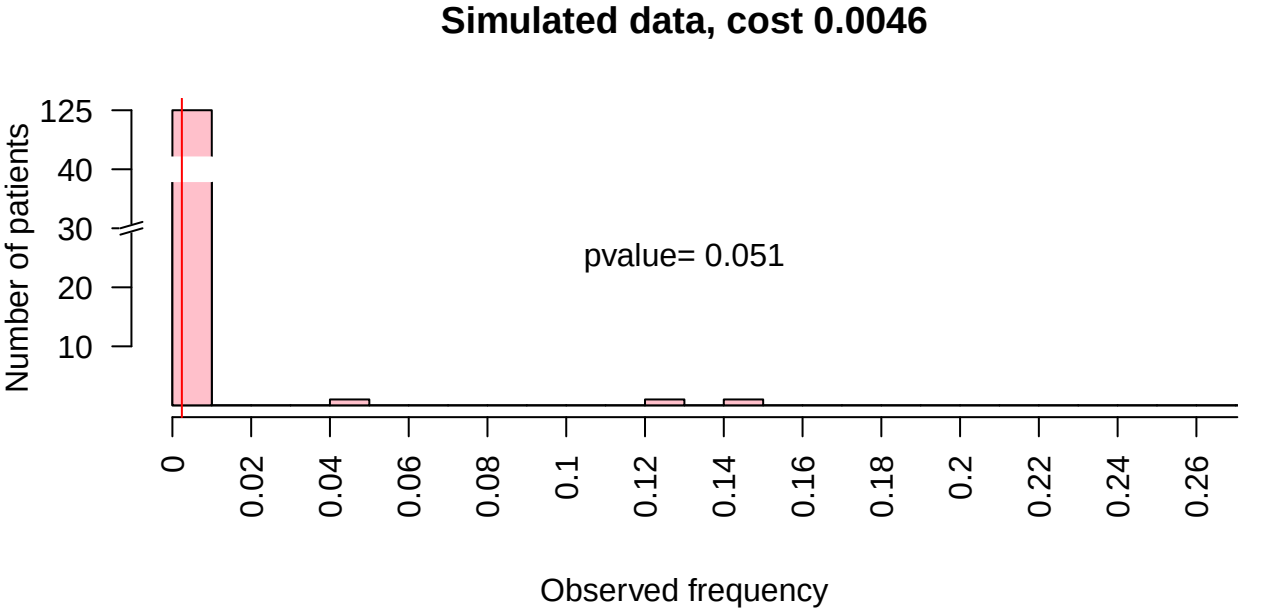

Single−SFS, site 796
Number of patients
148
40
30
20
10
0
0.02
0.04
0.06
Observed frequency

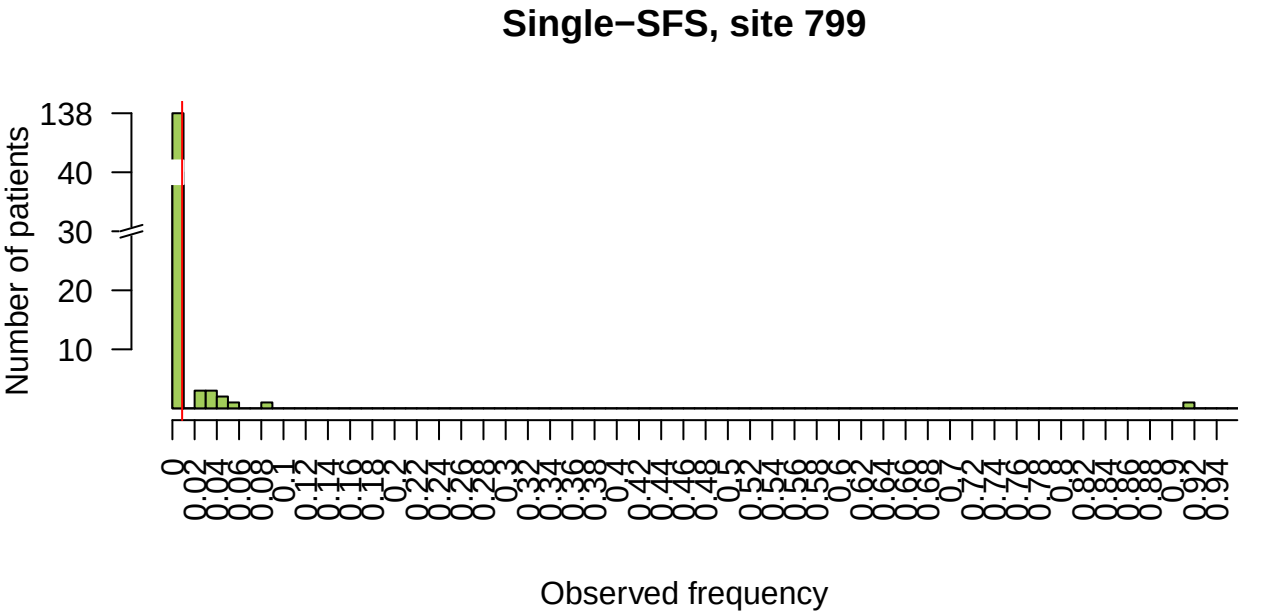

Simulated data, cost 0.0265
Number of patients
149
40
30
20
10
pvalue= 0.321
0
0.02
0.04
0.06
Observed frequency

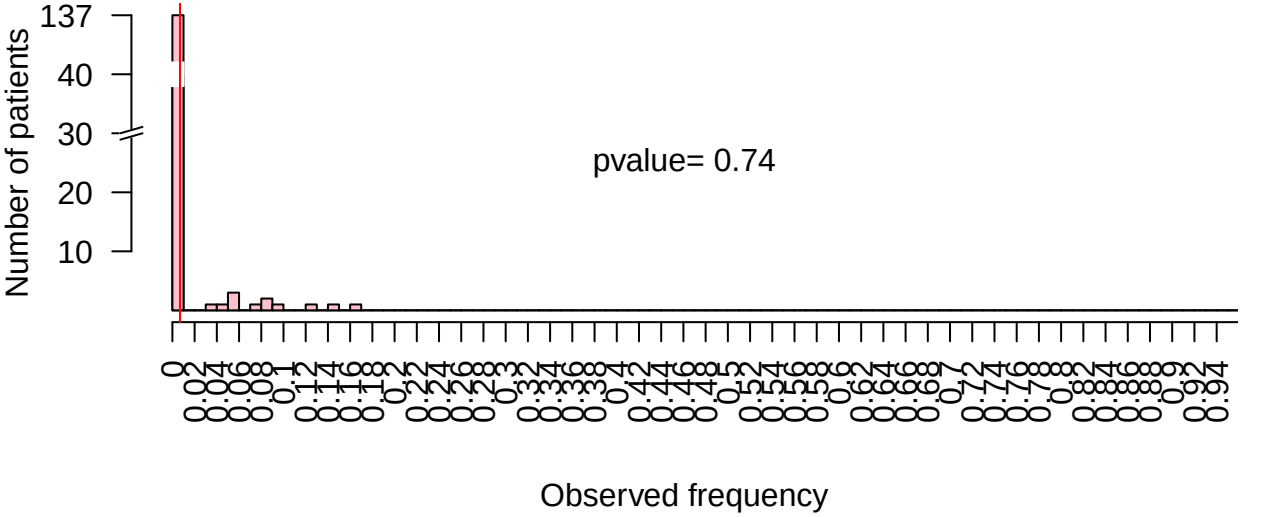

Single−SFS, site 797
Number of patients
144
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
Observed frequency

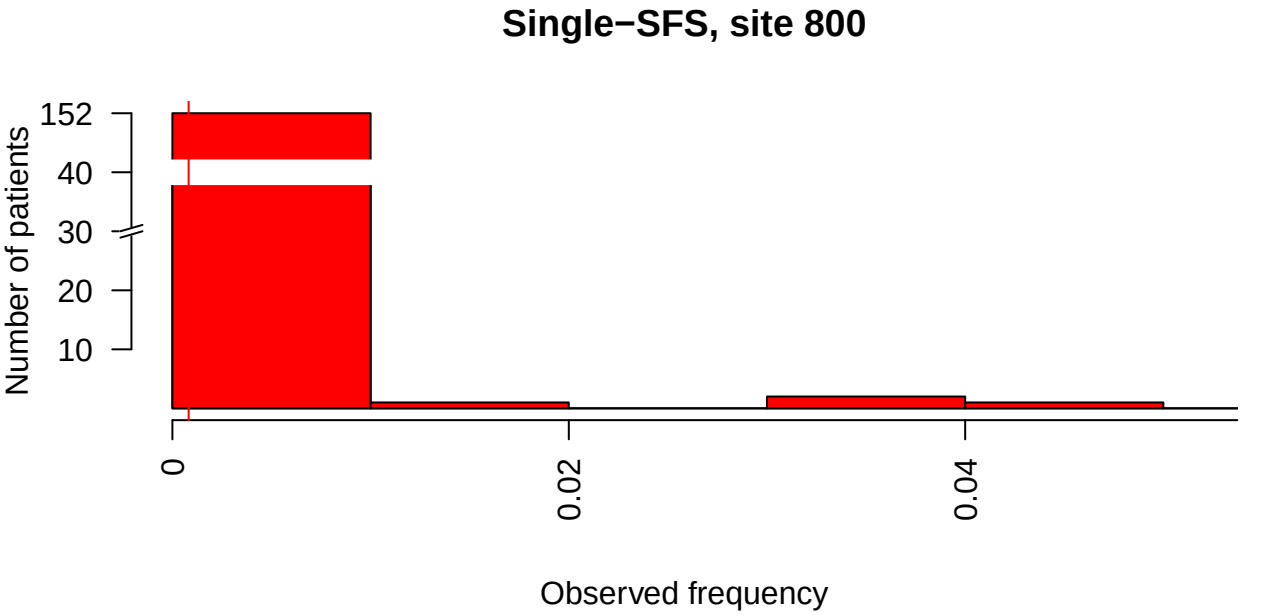

Simulated data, cost 0.0115
Number of patients
145
40
30
20
10
pvalue= 0.56
0
0.02
0.04
0.06
0.08
0.1
Observed frequency

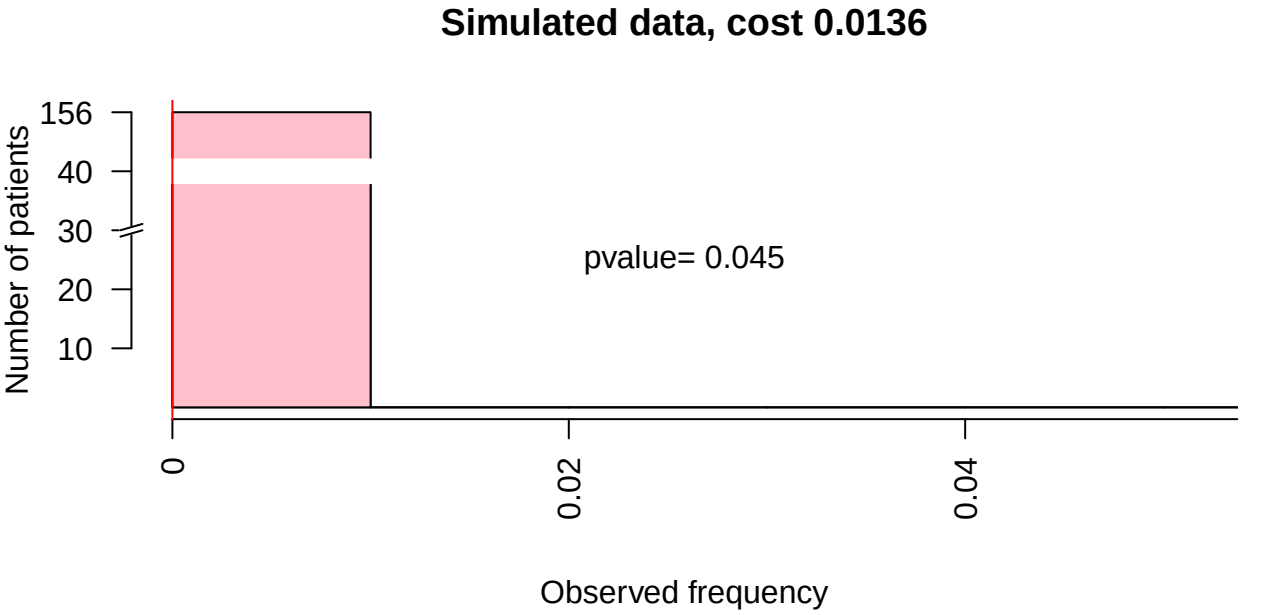

Single−SFS, site 798
Number of patients
118
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
0.24
0.26
Observed frequency

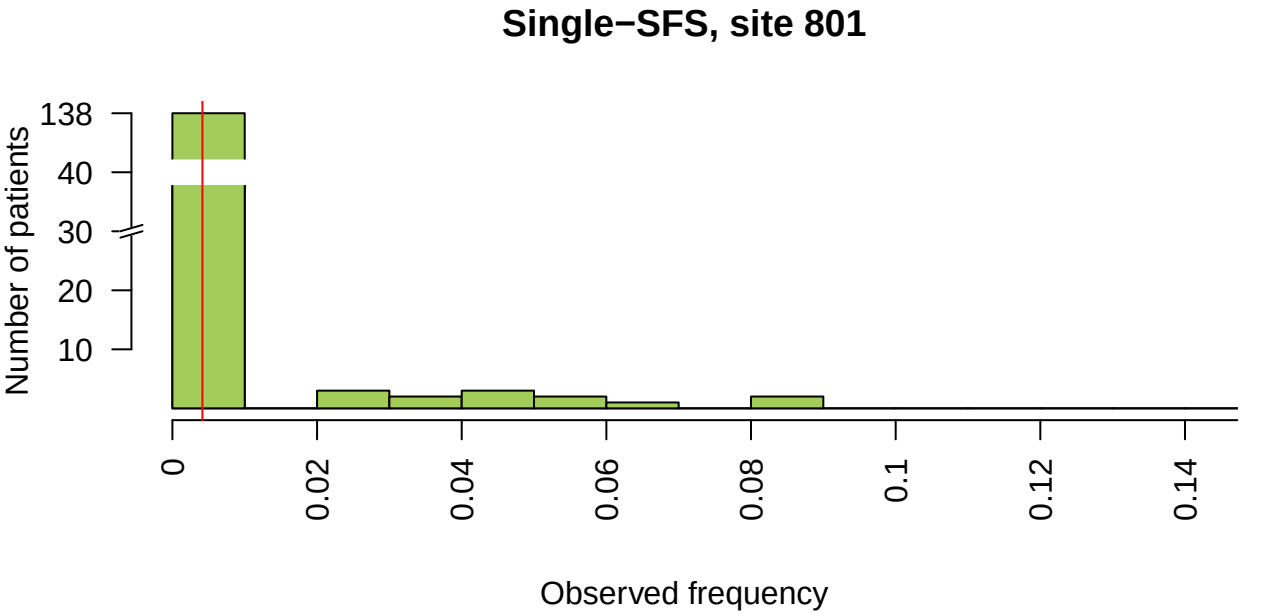

Simulated data, cost 0.0046
Number of patients
125
40
30
20
10
pvalue= 0.051
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
0.24
0.26
Observed frequency

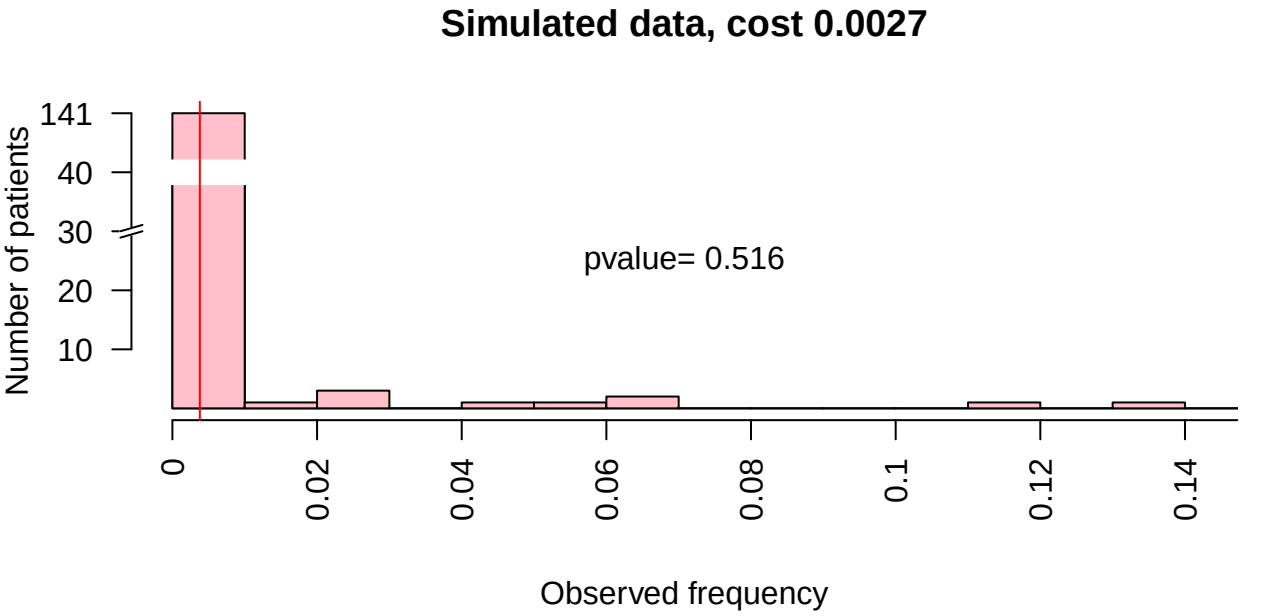

Single−SFS, site 799
Number of patients
138
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
0.24
0.26
0.28
0.3
0.32
0.34
0.36
0.38
0.4
0.42
0.44
0.46
0.48
0.5
0.52
0.54
0.56
0.58
0.6
0.62
0.64
0.66
0.68
0.7
0.72
0.74
0.76
0.78
0.8
0.82
0.84
0.86
0.88
0.9
0.92
0.94
Observed frequency

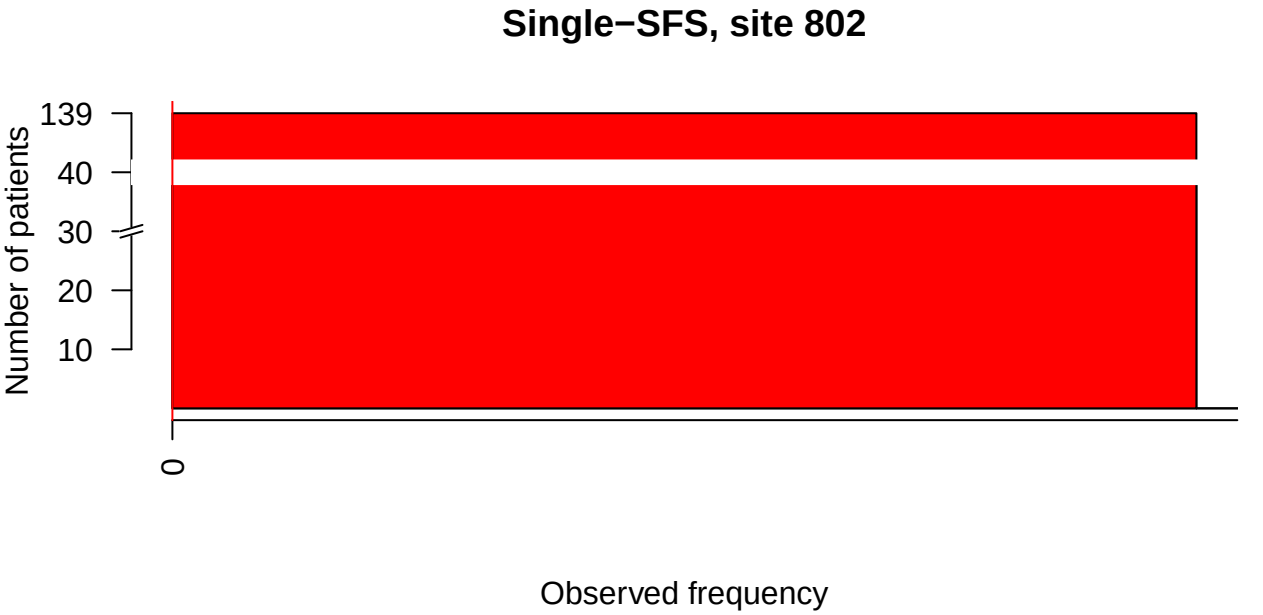

Simulated data, cost 0.0013
Number of patients
137
40
30
20
10
pvalue= 0.74
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
0.24
0.26
0.28
0.3
0.32
0.34
0.36
0.38
0.4
0.42
0.44
0.46
0.48
0.5
0.52
0.54
0.56
0.58
0.6
0.62
0.64
0.66
0.68
0.7
0.72
0.74
0.76
0.78
0.8
0.82
0.84
0.86
0.88
0.9
0.92
0.94
Observed frequency

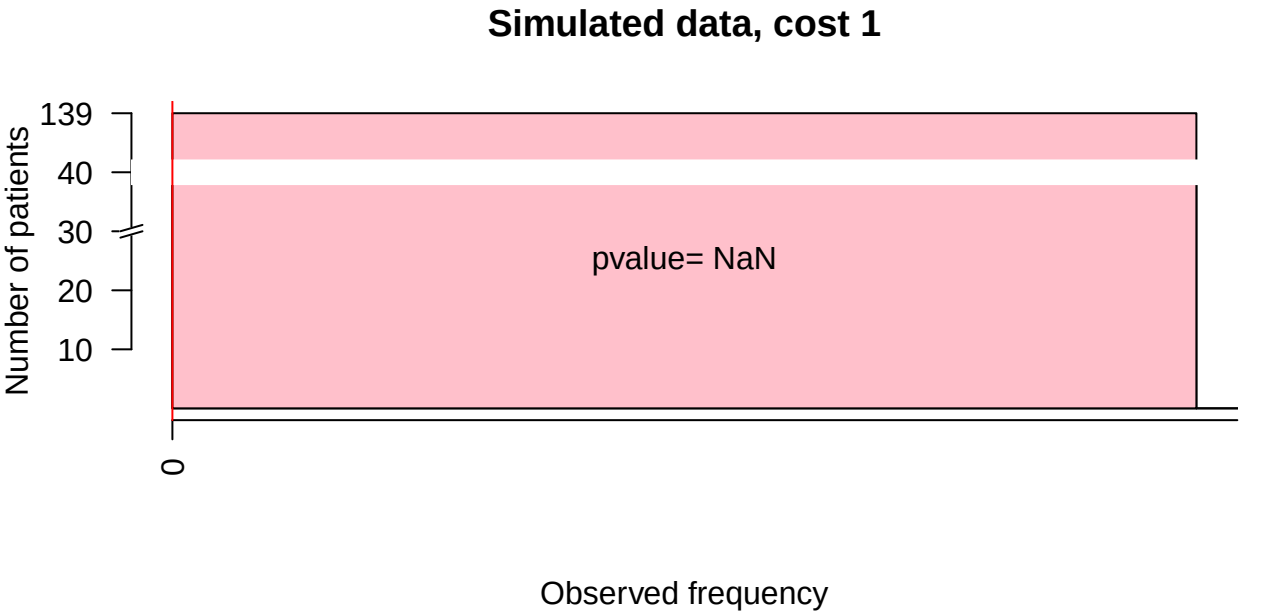

Single−SFS, site 800
Number of patients
152
40
30
20
10
0
0.02
0.04
Observed frequency

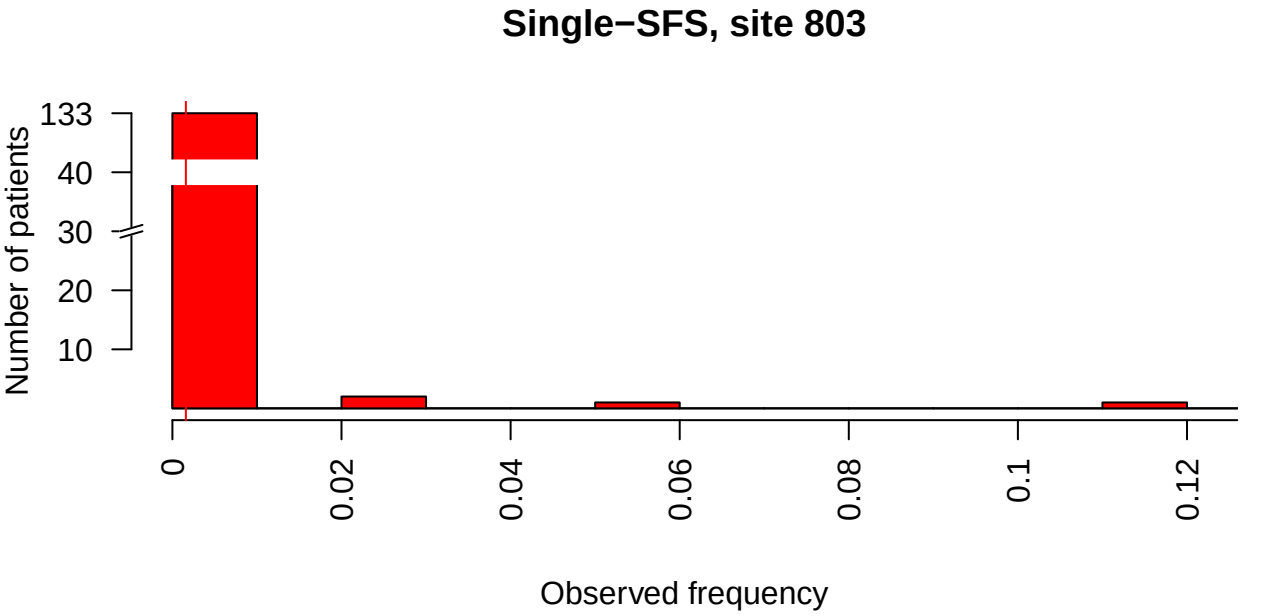

Simulated data, cost 0.0136
Number of patients
156
40
30
20
10
pvalue= 0.045
0
0.02
0.04
Observed frequency

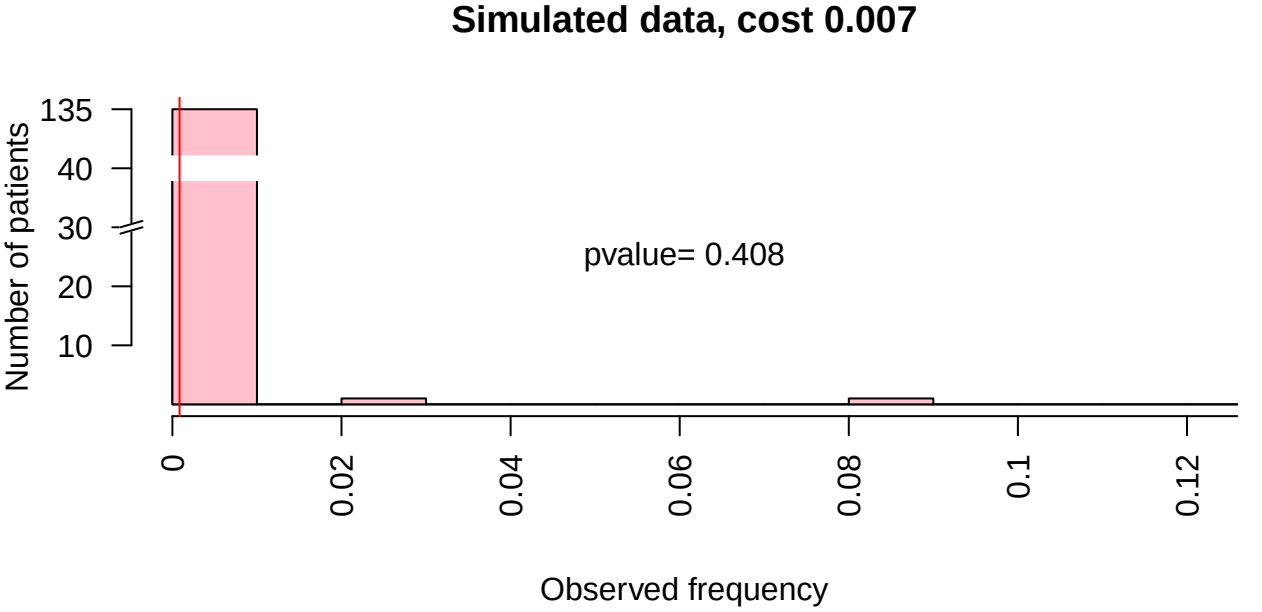

Single−SFS, site 801
Number of patients
138
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
Observed frequency

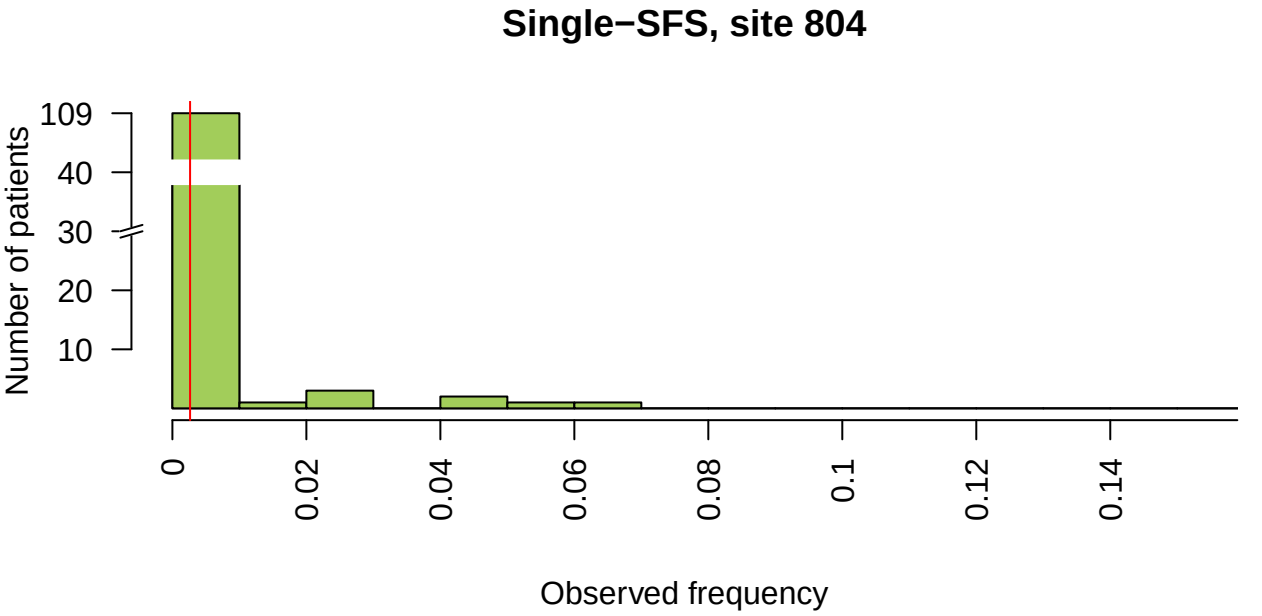

Simulated data, cost 0.0027
Number of patients
141
40
30
20
10
pvalue= 0.516
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
Observed frequency

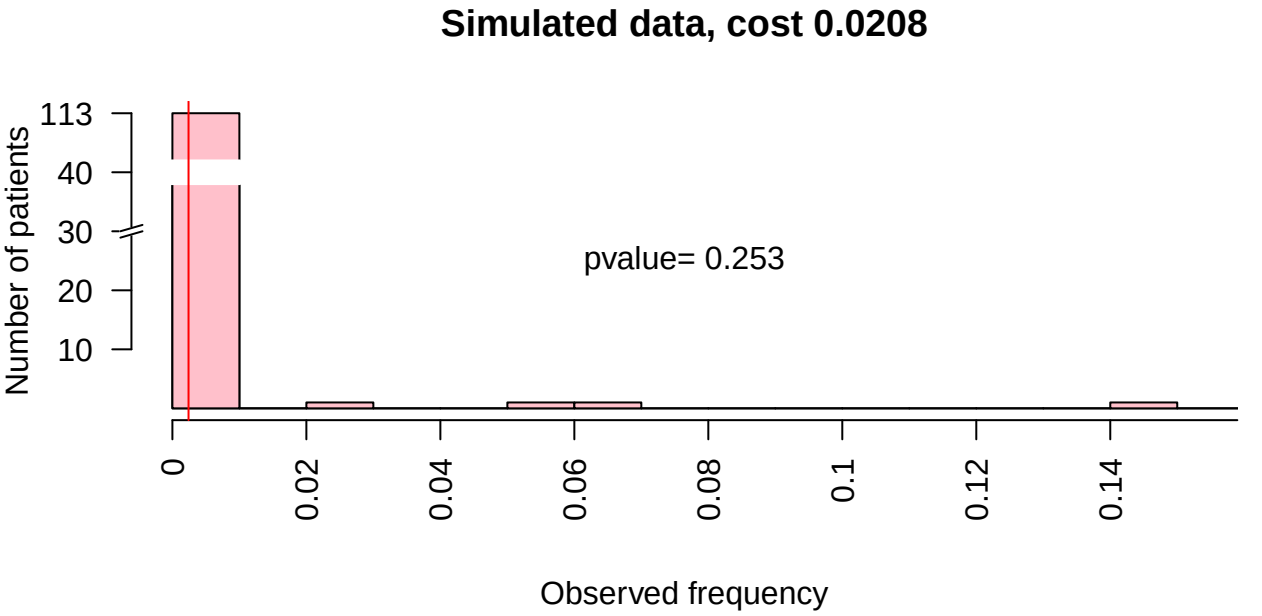

Single−SFS, site 802
Number of patients
139
40
30
20
10
0
Observed frequency

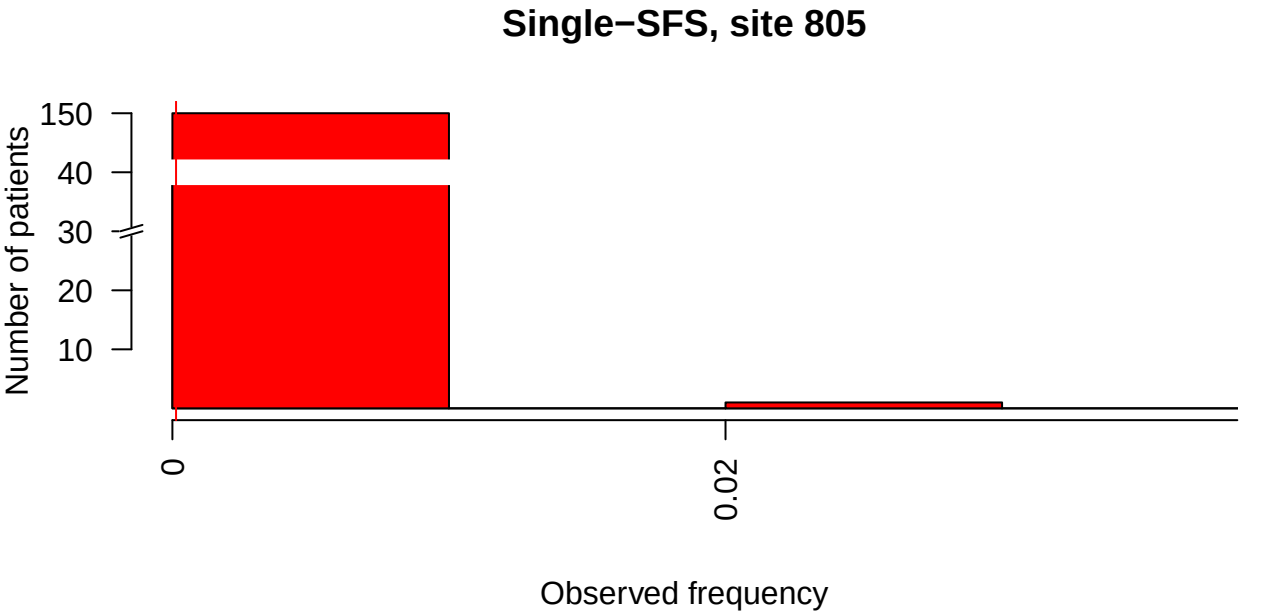

Simulated data, cost 1
Number of patients
139
40
30
20
10
0
pvalue= NaN
Observed frequency

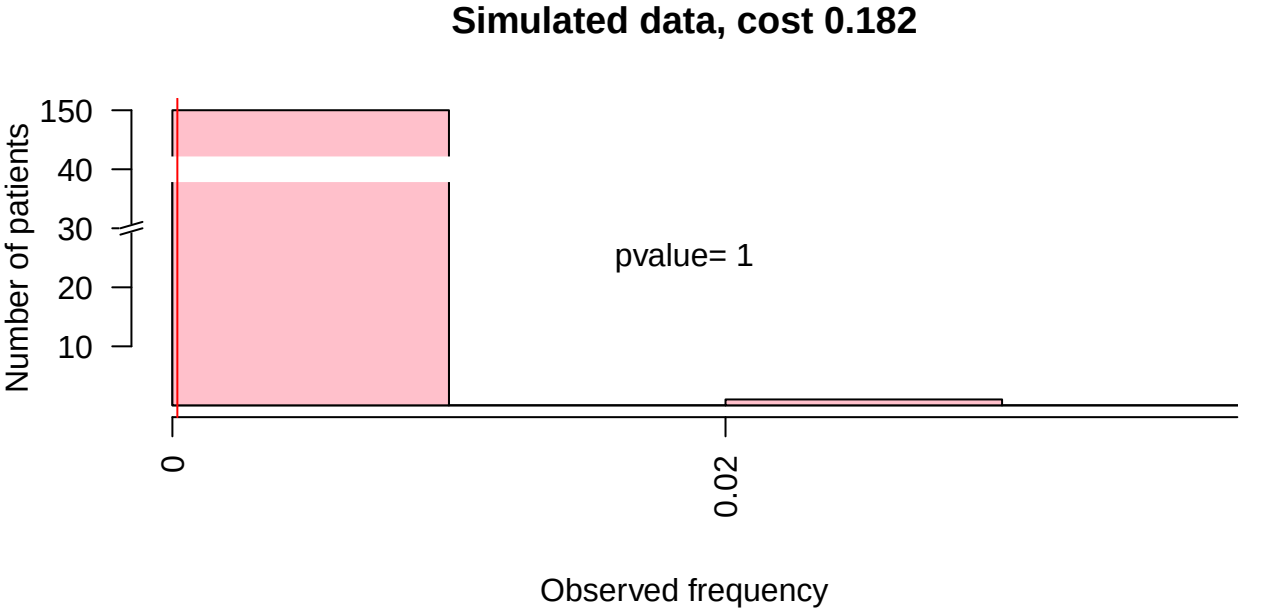

Single−SFS, site 803
Number of patients
133
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
Observed frequency

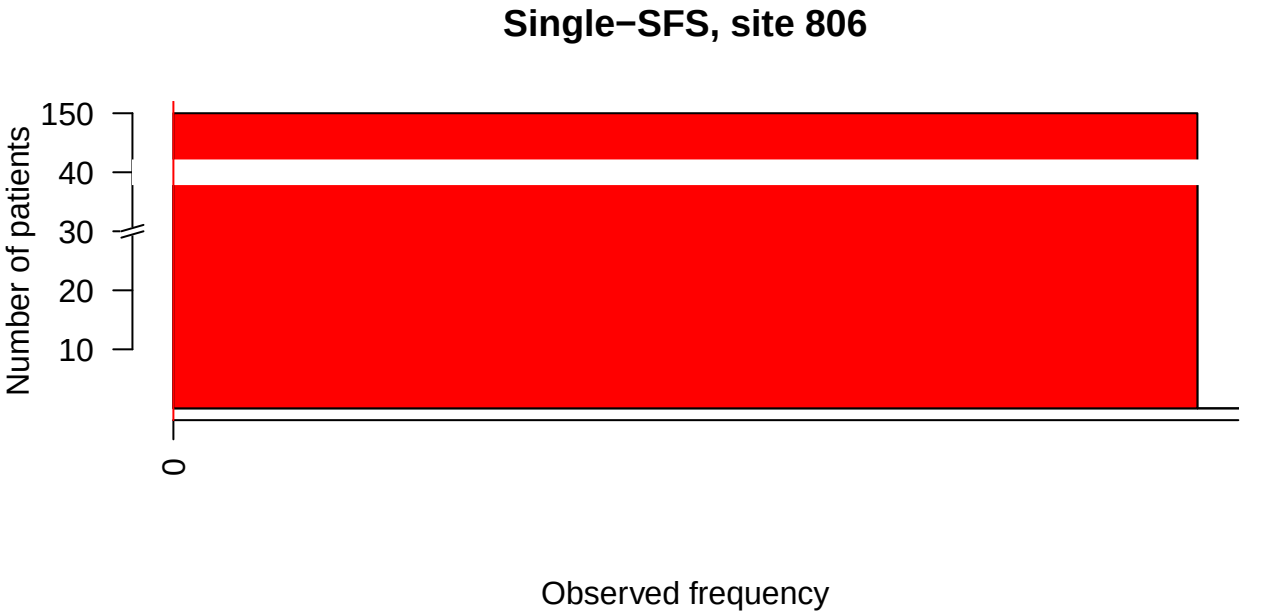

Simulated data, cost 0.007
Number of patients
135
40
30
20
10
pvalue= 0.408
0
0.02
0.04
0.06
0.08
0.1
0.12
Observed frequency

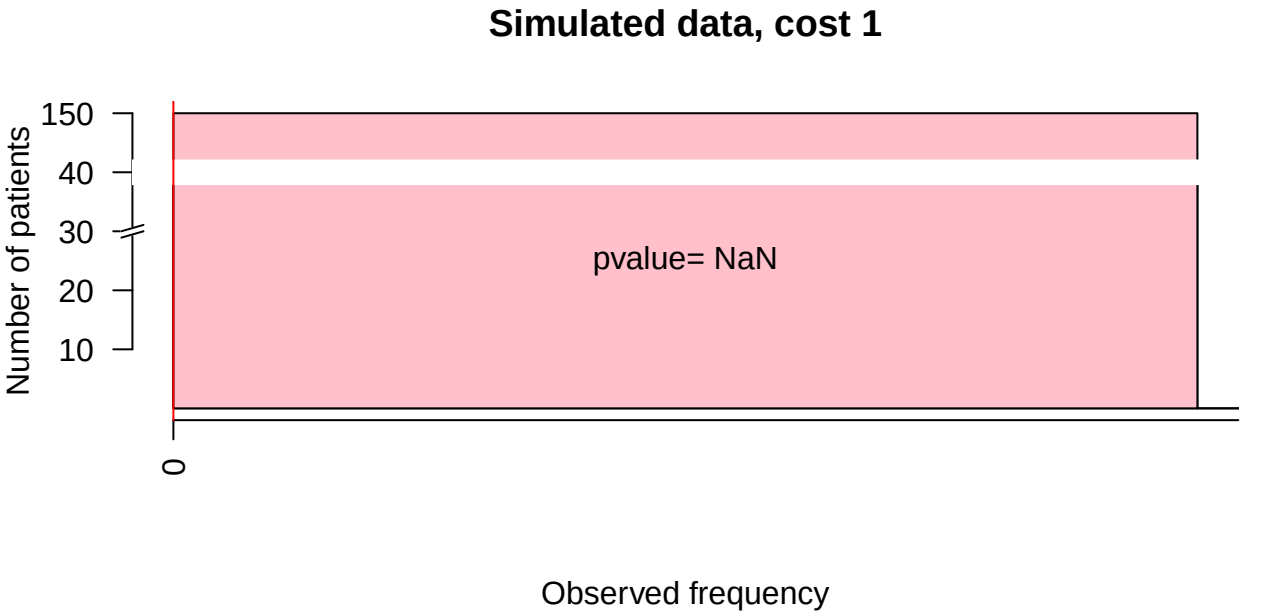

Single−SFS, site 804
Number of patients
109
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
Observed frequency

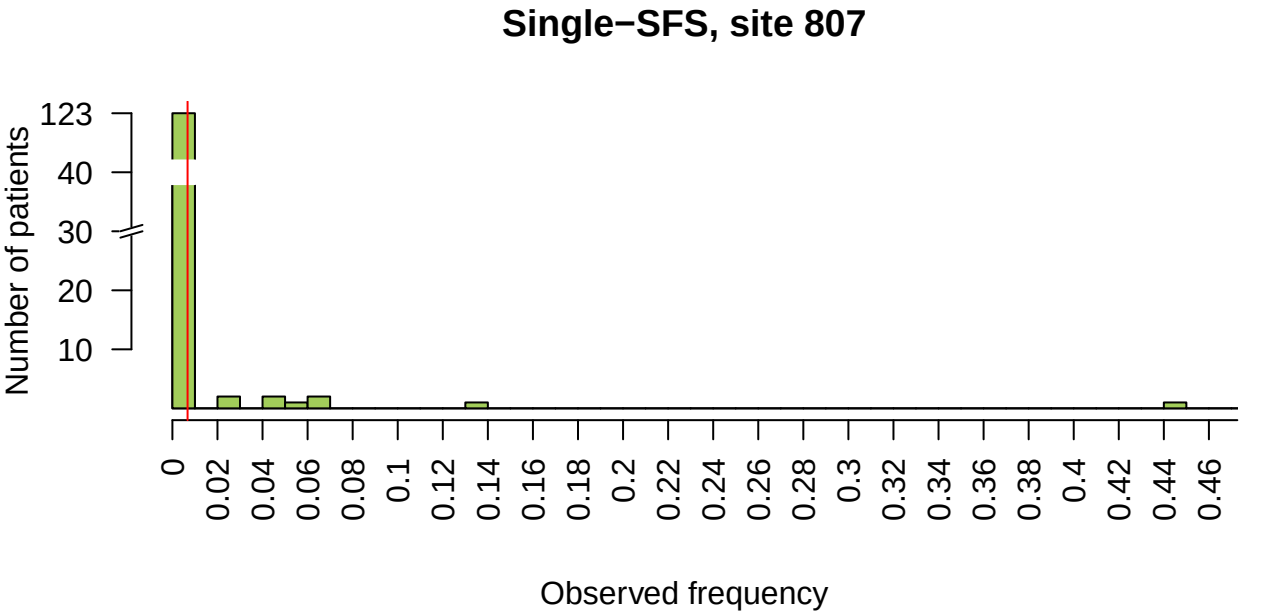

Simulated data, cost 0.0208
Number of patients
113
40
30
20
10
pvalue= 0.253
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
Observed frequency

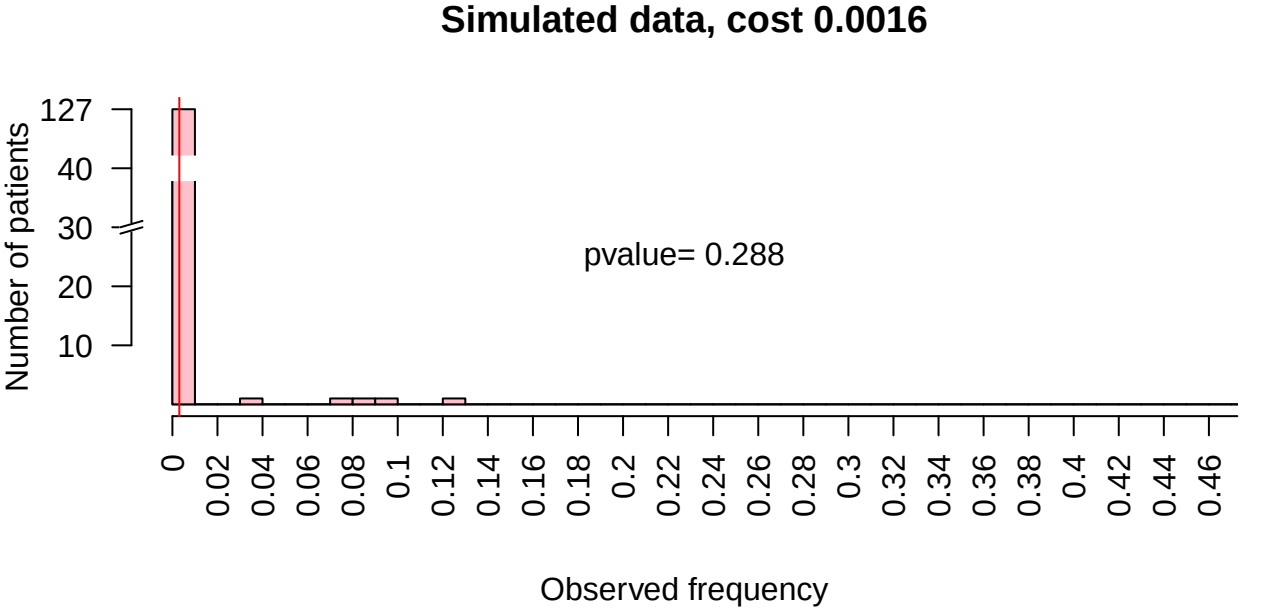

Single−SFS, site 805
Number of patients
150
40
30
20
10
0
0.02
Observed frequency

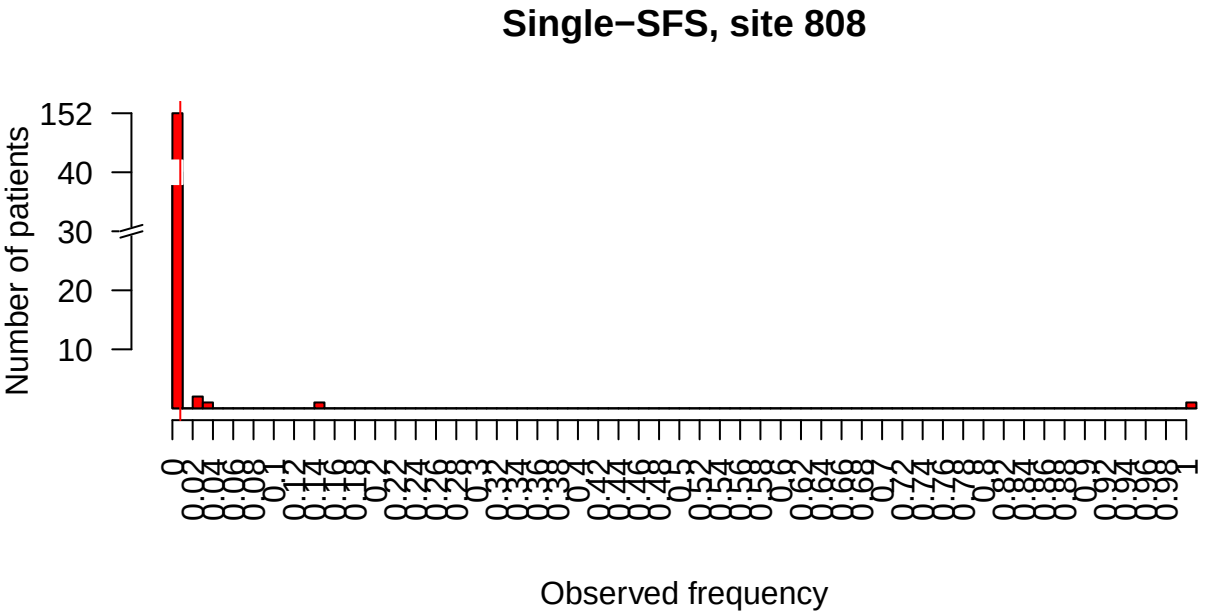

Simulated data, cost 0.182
Number of patients
150
40
30
20
10
pvalue= 1
0
0.02
Observed frequency

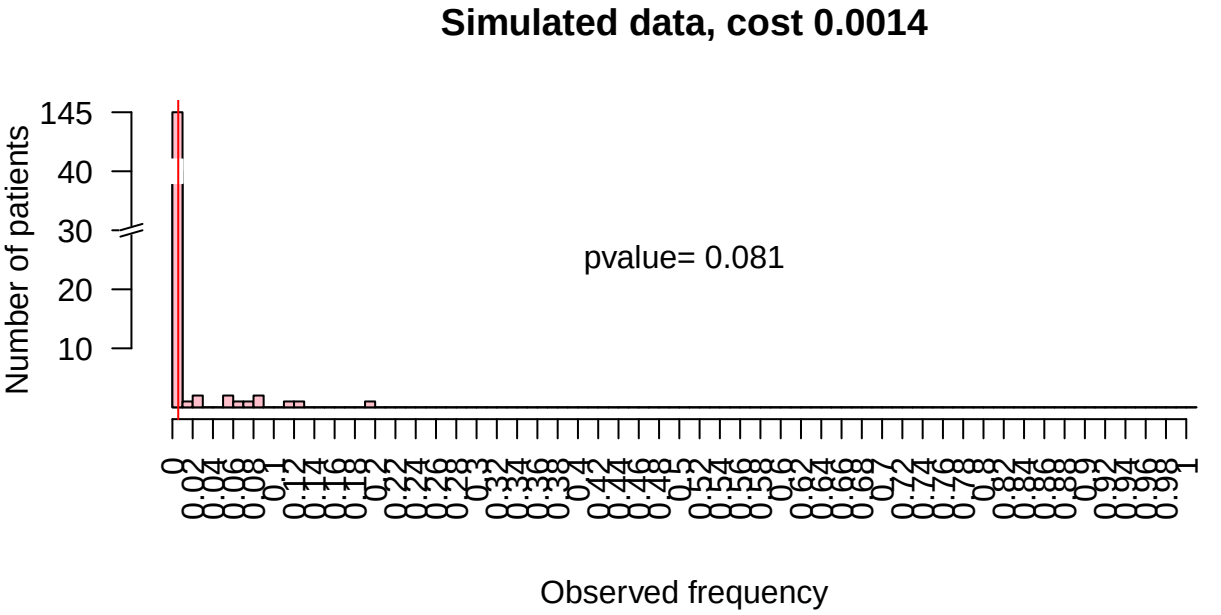

Single−SFS, site 806
Number of patients
150
40
30
20
10
0
Observed frequency

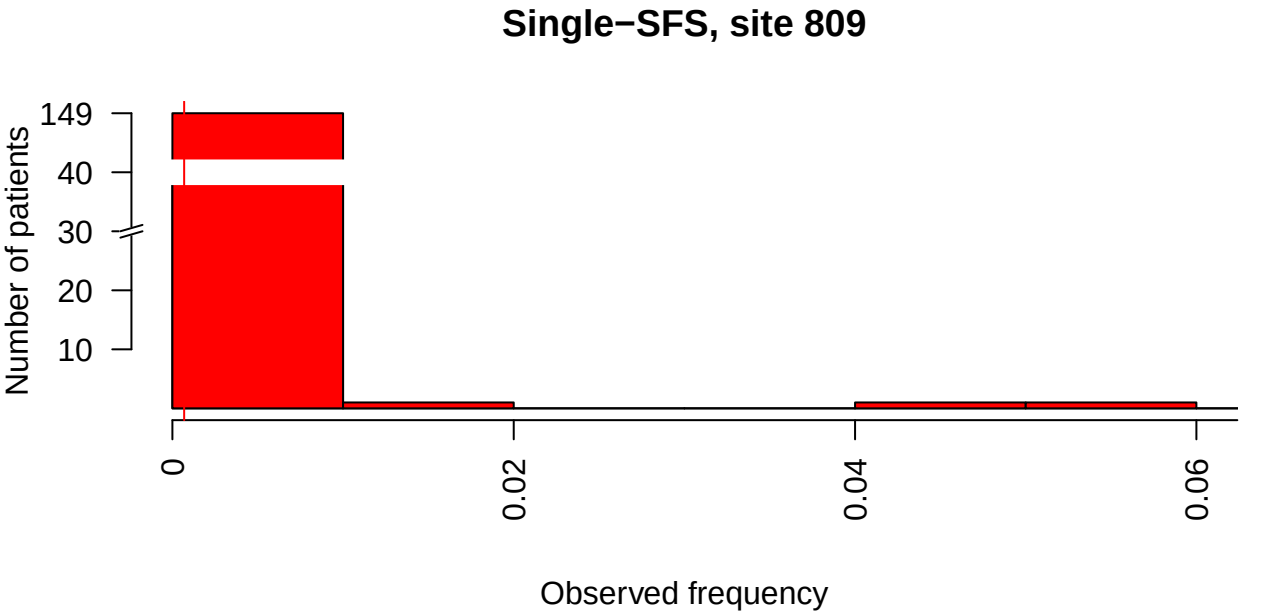

Simulated data, cost 1
Number of patients
150
40
30
20
10
0
pvalue= NaN
Observed frequency

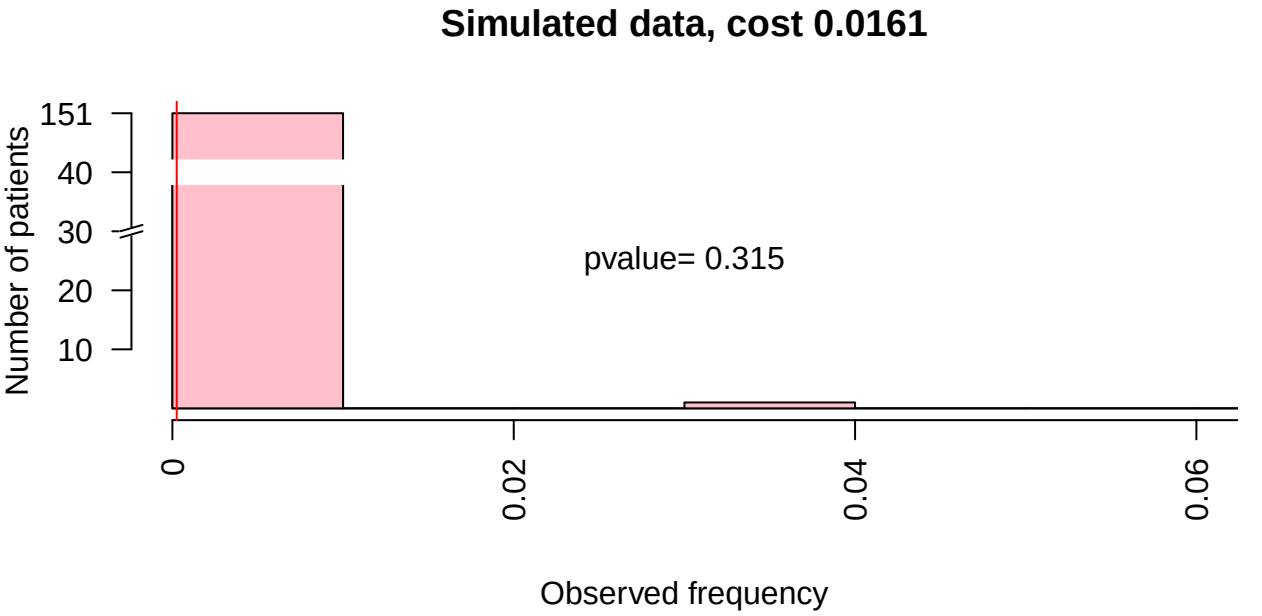

Single−SFS, site 807
Number of patients
123
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
0.24
0.26
0.28
0.3
0.32
0.34
0.36
0.38
0.4
0.42
0.44
0.46
Observed frequency

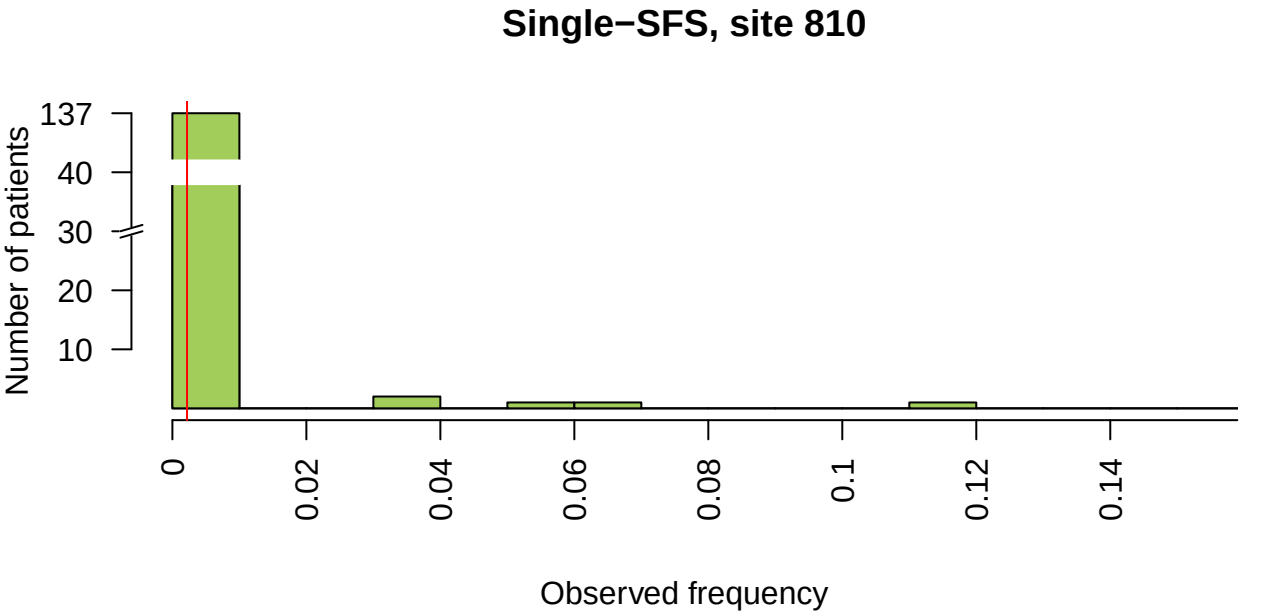

Simulated data, cost 0.0016
Number of patients
127
40
30
20
10
pvalue= 0.288
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
0.24
0.26
0.28
0.3
0.32
0.34
0.36
0.38
0.4
0.42
0.44
0.46
Observed frequency

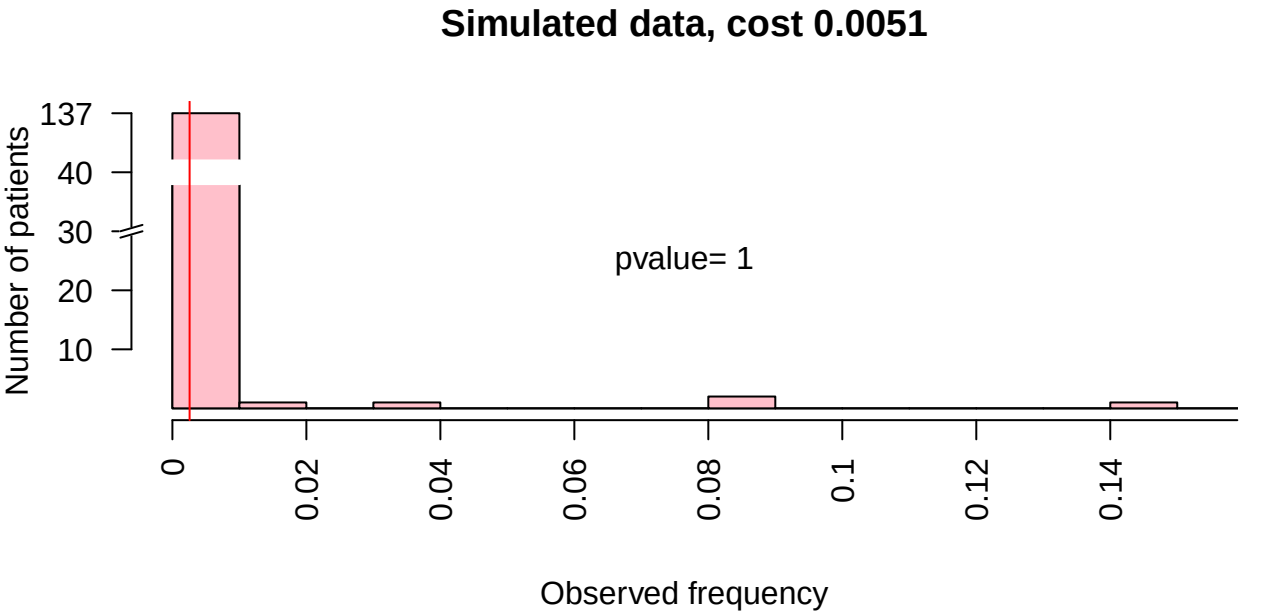

Single−SFS, site 808
Number of patients
152
40
30
20
10
Observed frequency

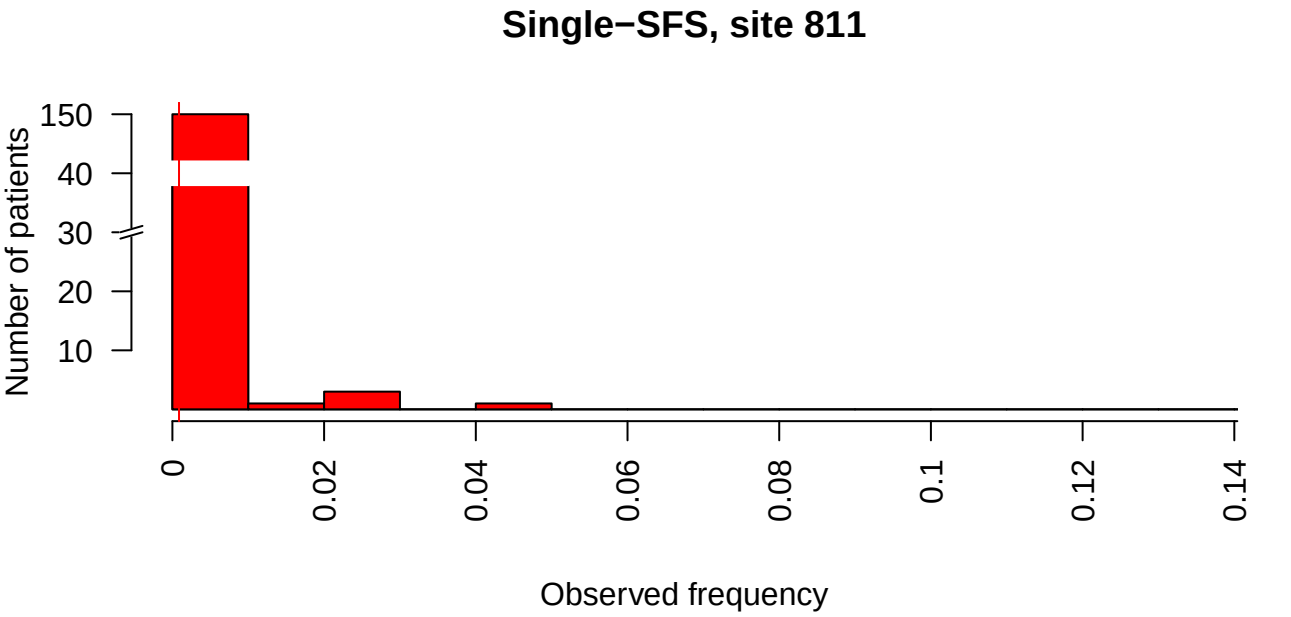

Simulated data, cost 0.0014
Number of patients
145
40
30
20
10
pvalue= 0.081
Observed frequency

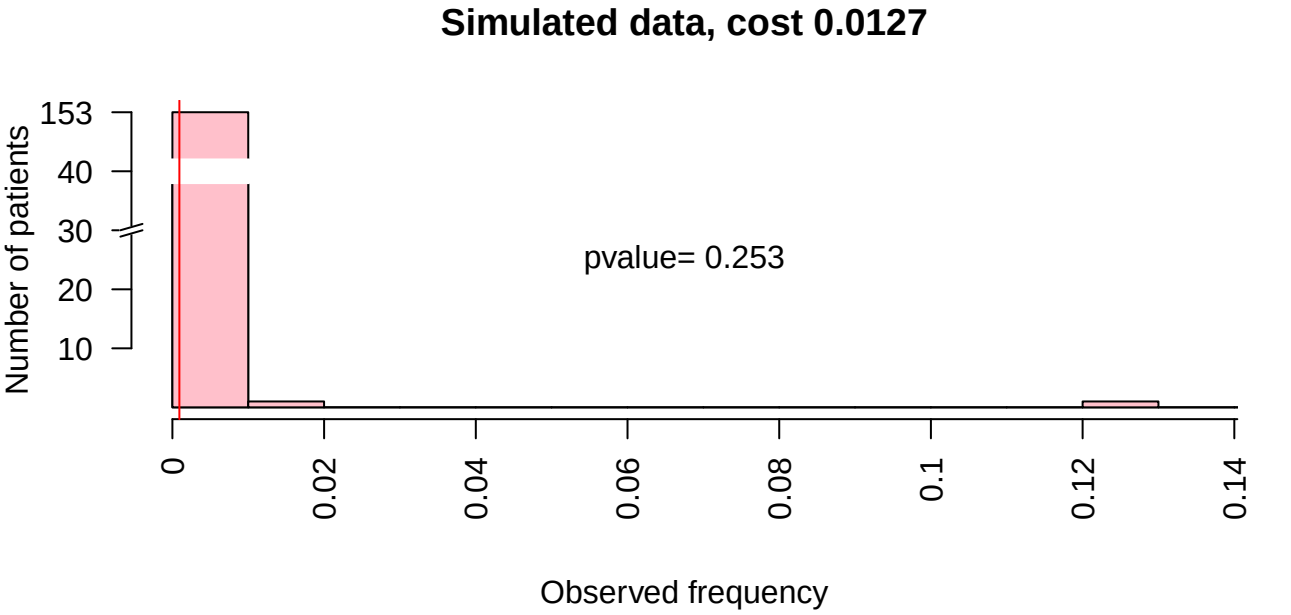

Single−SFS, site 809
Number of patients
149
40
30
20
10
0
0.02
0.04
0.06
Observed frequency

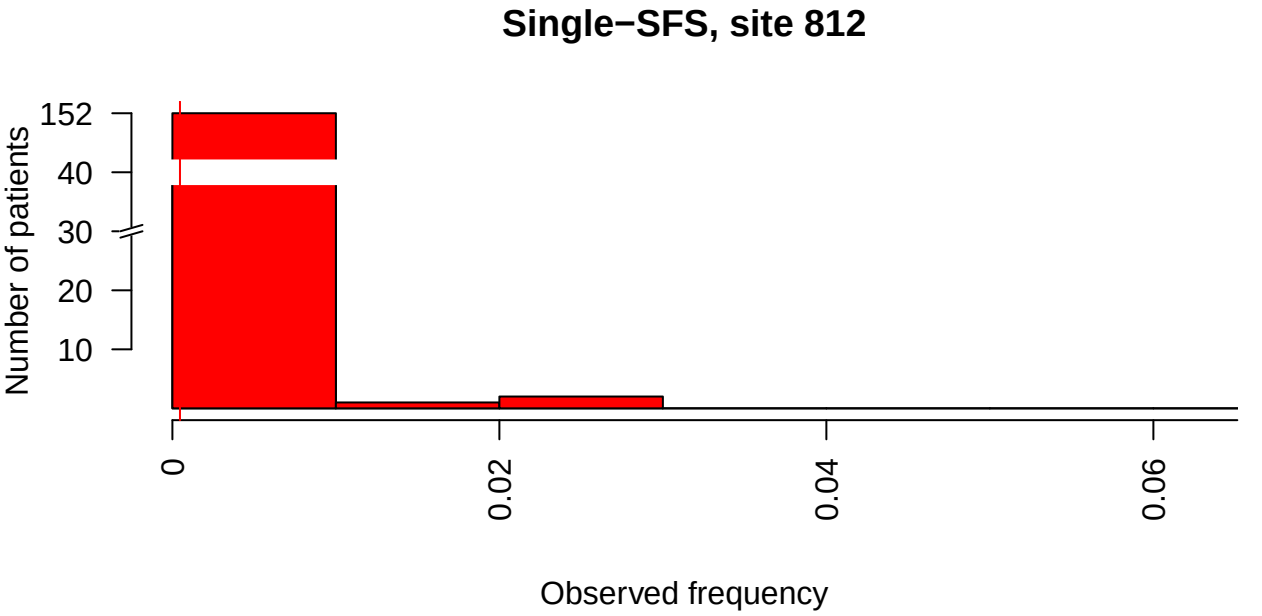

Simulated data, cost 0.0161
Number of patients
151
40
30
20
10
pvalue= 0.315
0
0.02
0.04
0.06
Observed frequency

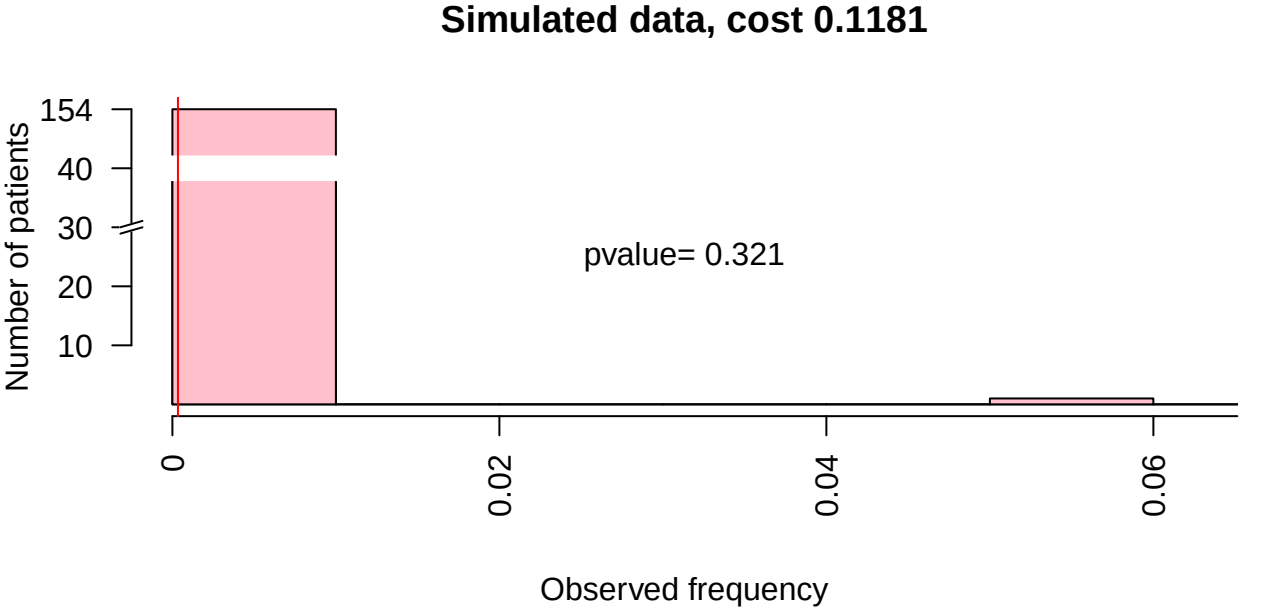

Single−SFS, site 810
Number of patients
137
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
Observed frequency

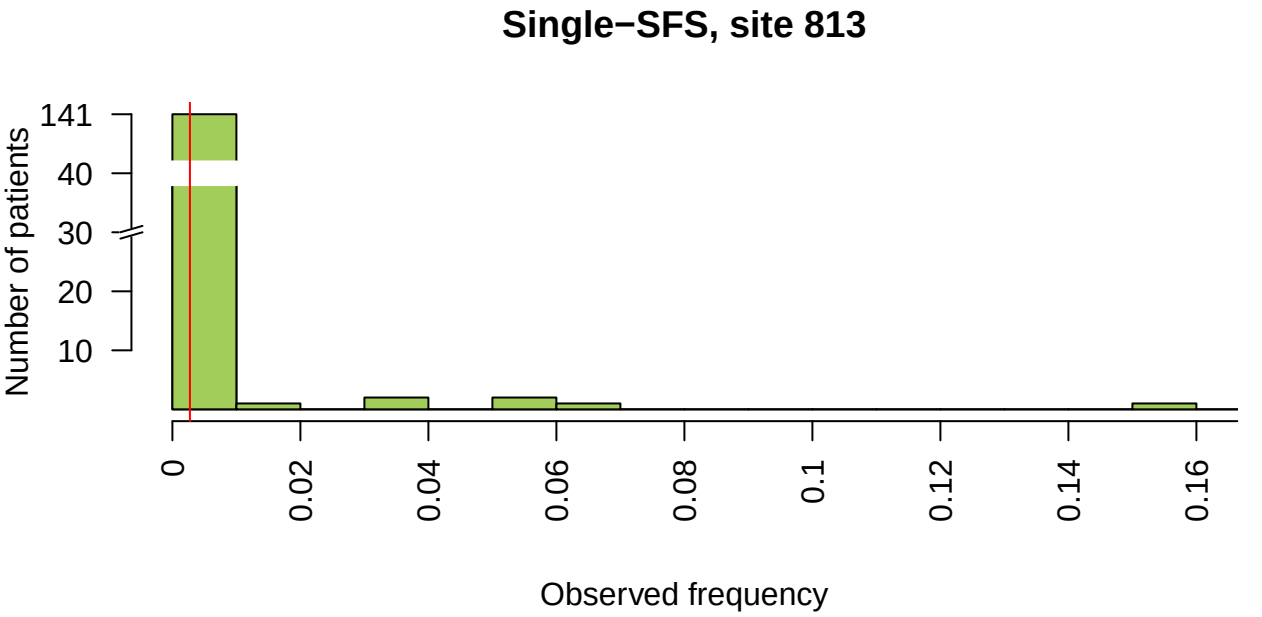

Simulated data, cost 0.0051
Number of patients
137
40
30
20
10
pvalue= 1
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
Observed frequency

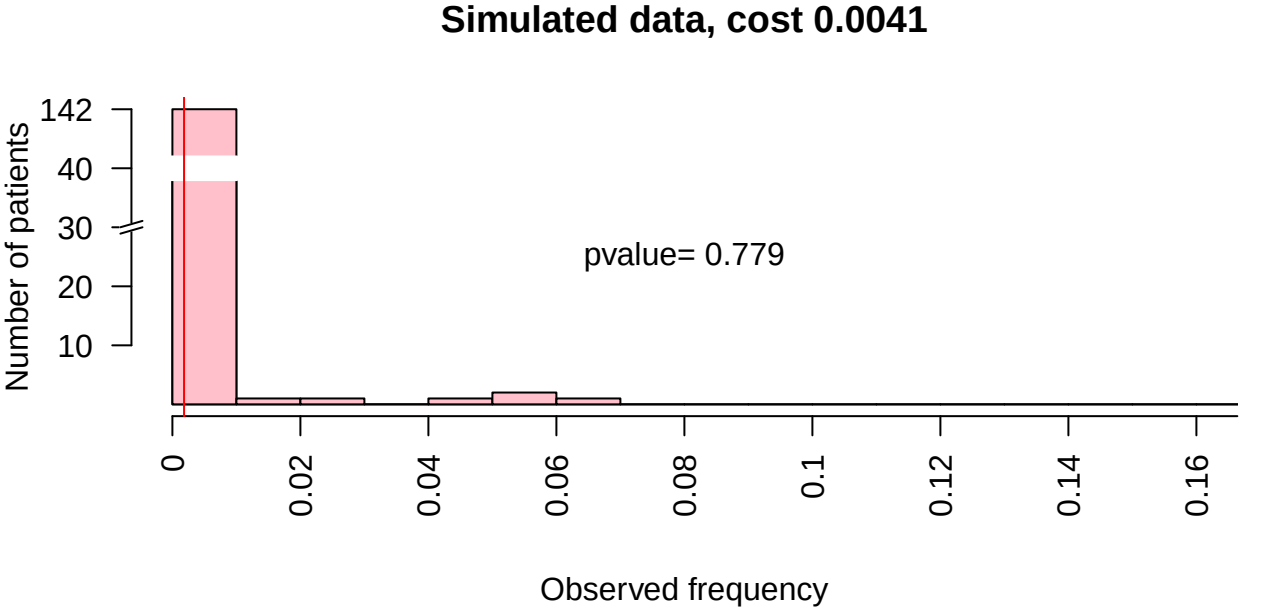

Single−SFS, site 811
Number of patients
150
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
Observed frequency

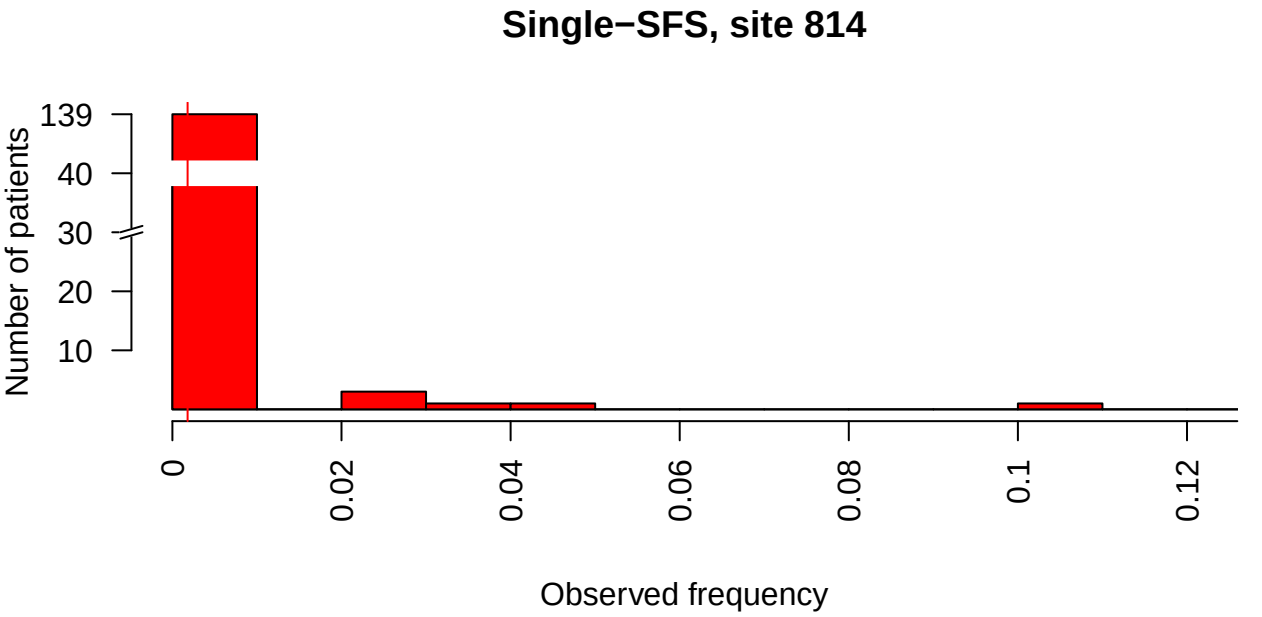

Simulated data, cost 0.0127
Number of patients
153
40
30
20
10
pvalue= 0.253
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
Observed frequency

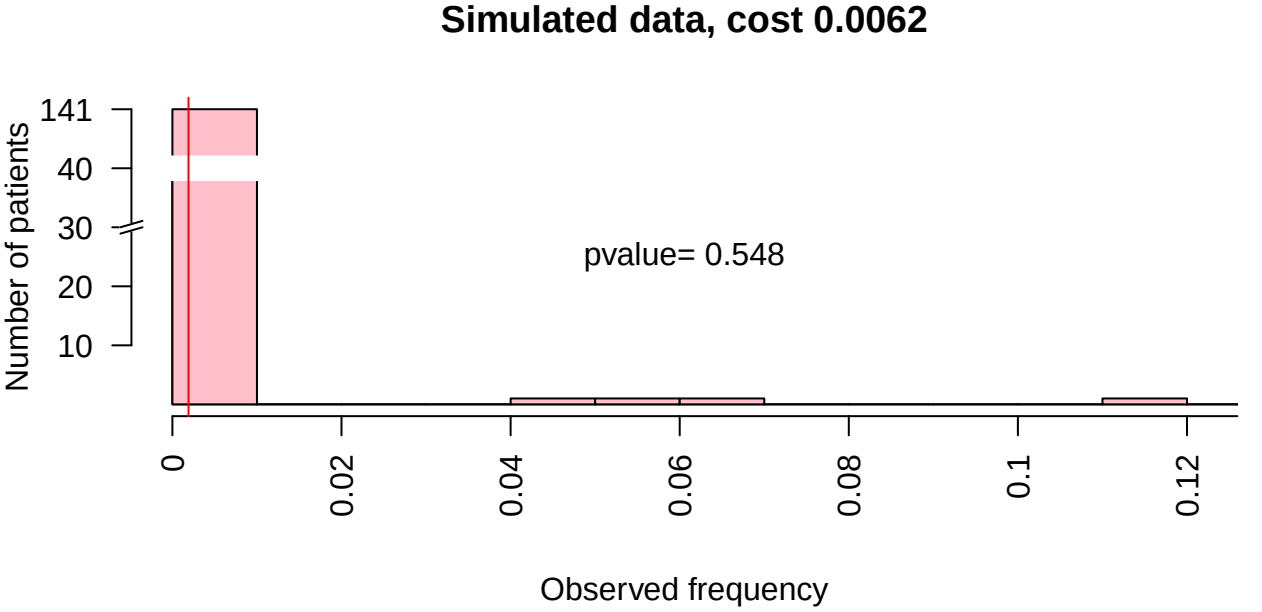

Single−SFS, site 812
Number of patients
152
40
30
20
10
0
0.02
0.04
0.06
Observed frequency

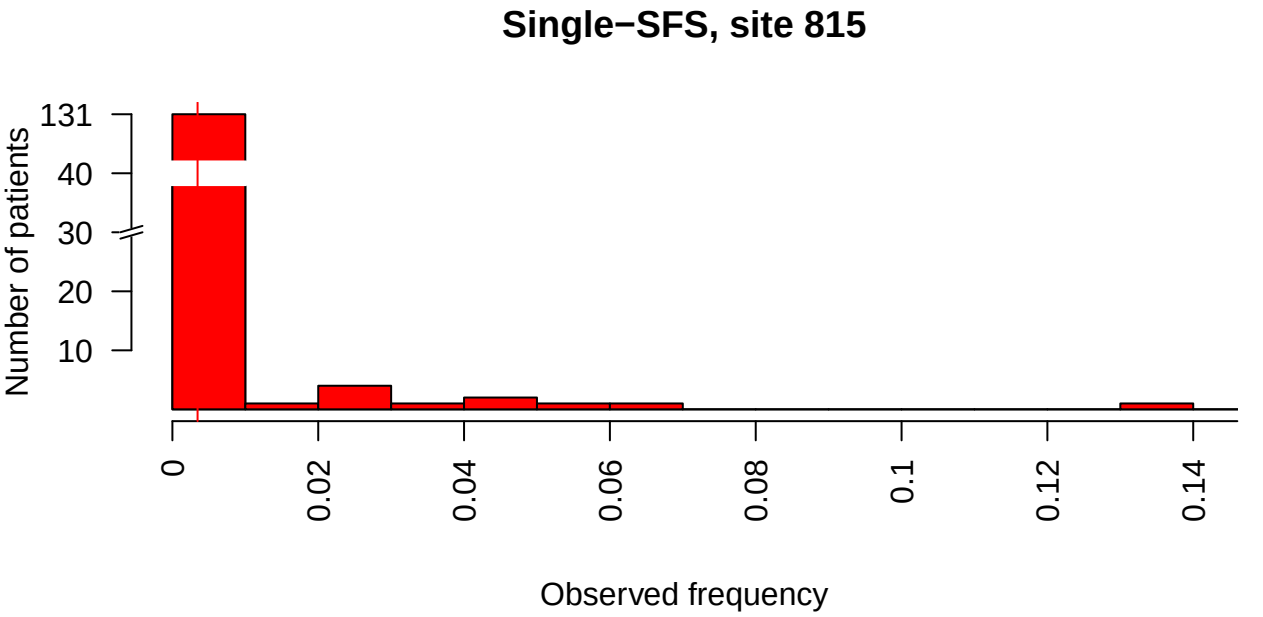

Simulated data, cost 0.1181
Number of patients
154
40
30
20
10
pvalue= 0.321
0
0.02
0.04
0.06
Observed frequency

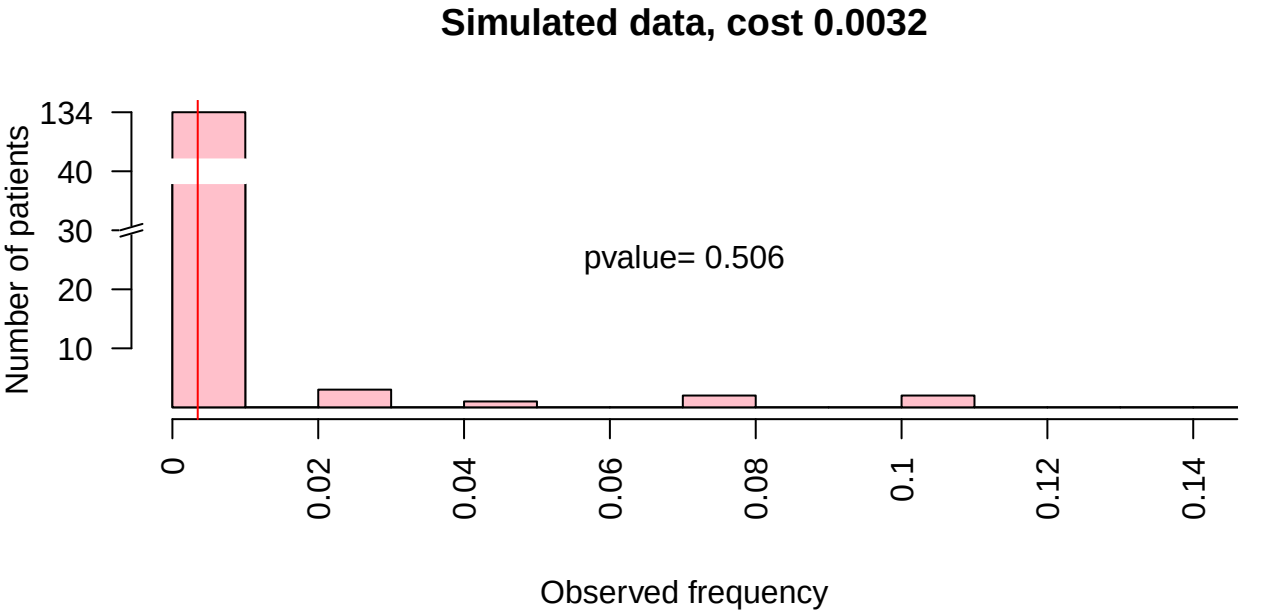

Single−SFS, site 813
Number of patients
141
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
Observed frequency

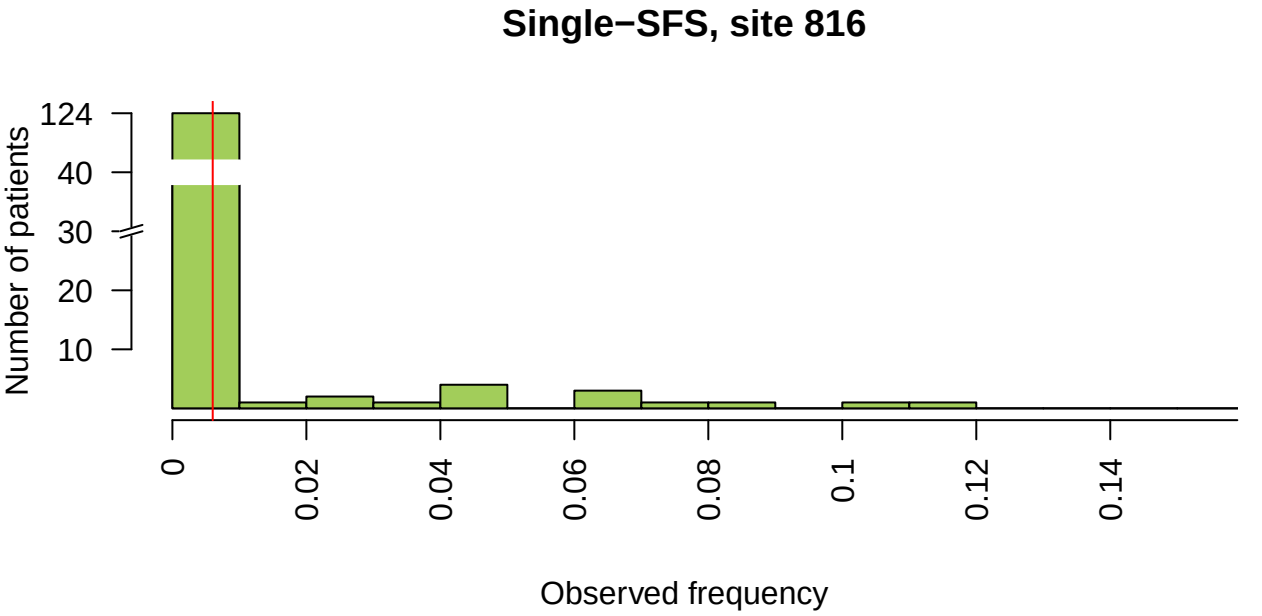

Simulated data, cost 0.0041
Number of patients
142
40
30
20
10
pvalue= 0.779
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
Observed frequency

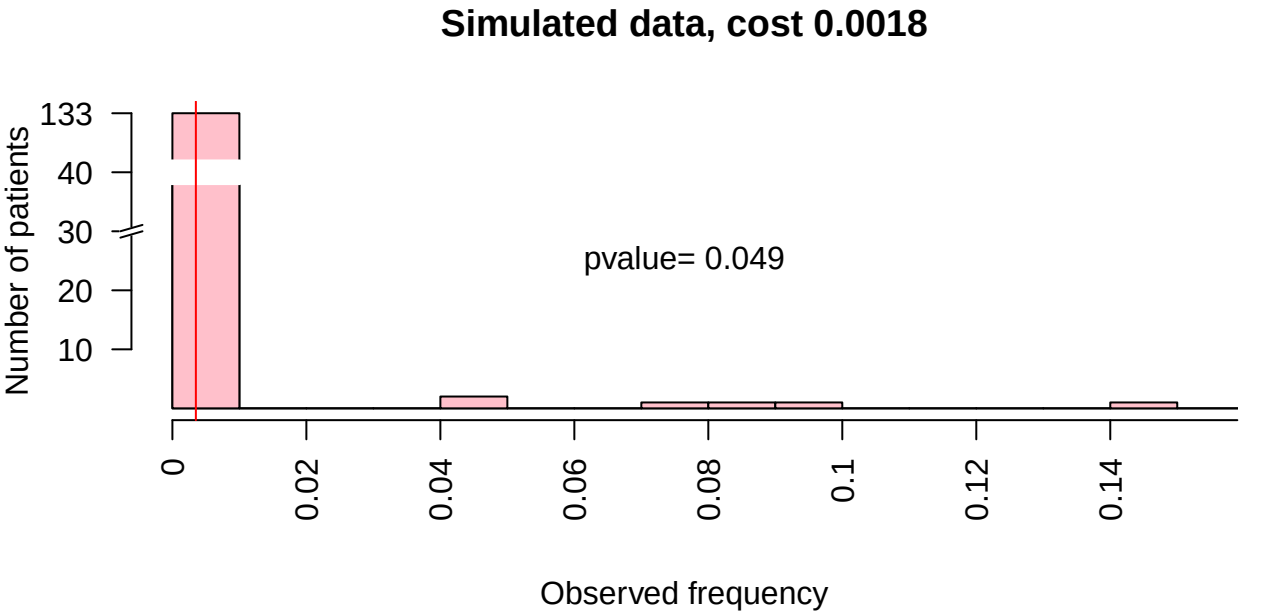

Single−SFS, site 814
Number of patients
139
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
Observed frequency

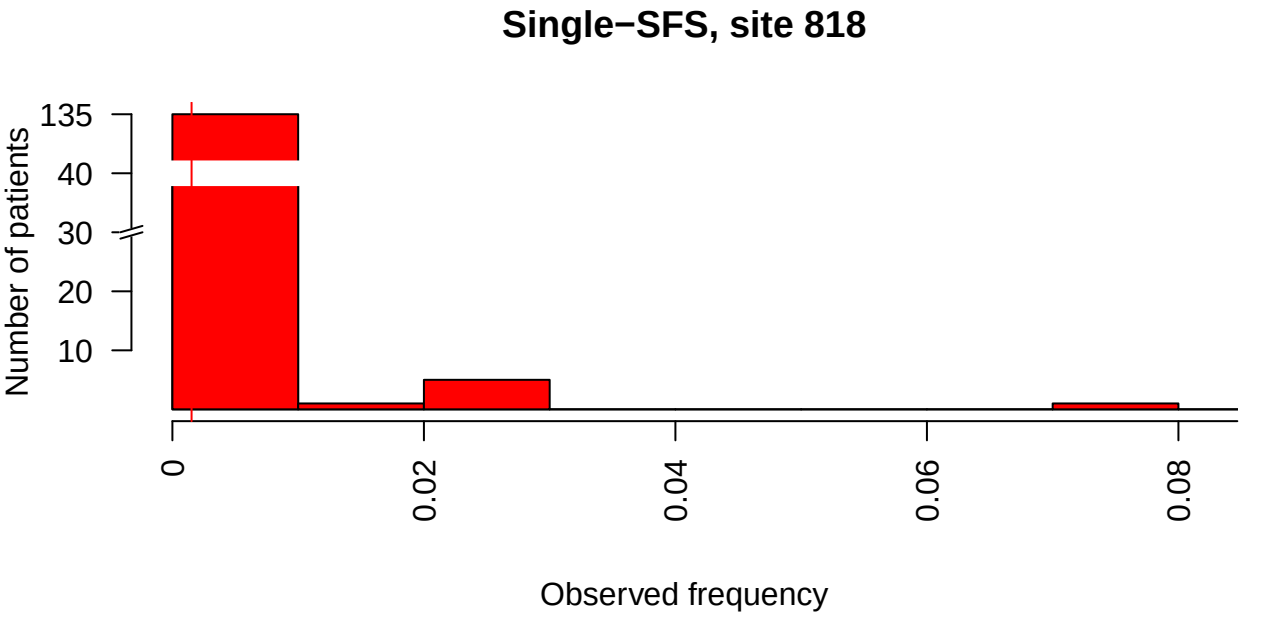

Simulated data, cost 0.0062
Number of patients
141
40
30
20
10
pvalue= 0.548
0
0.02
0.04
0.06
0.08
0.1
0.12
Observed frequency

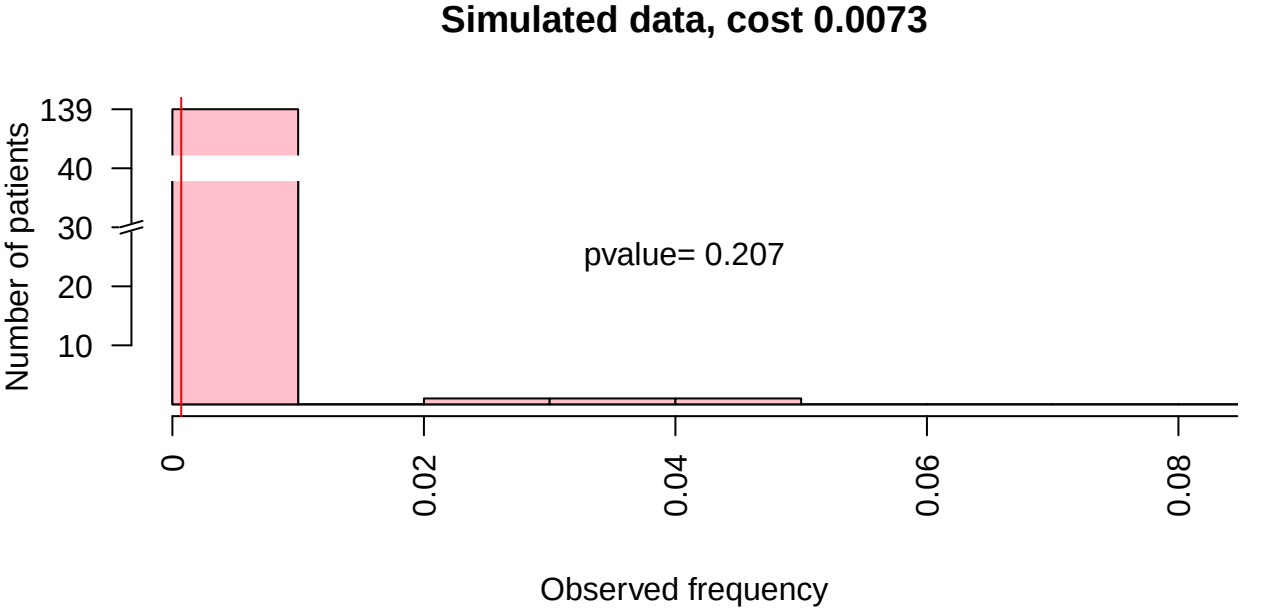

Single−SFS, site 815
Number of patients
131
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
Observed frequency

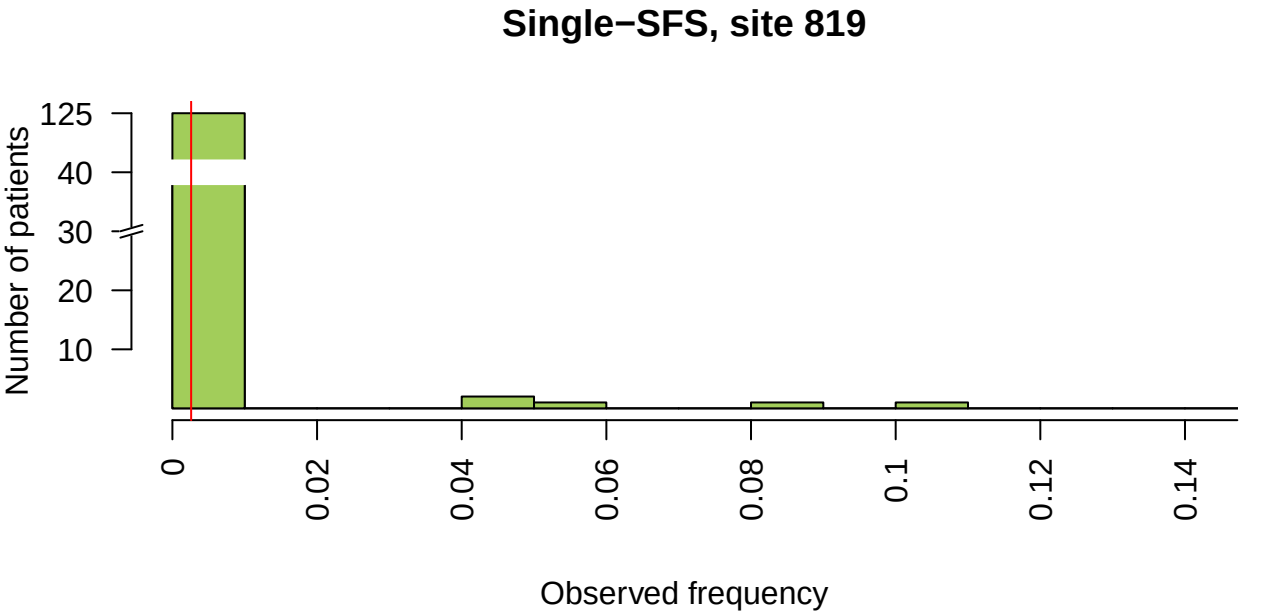

Simulated data, cost 0.0032
Number of patients
134
40
30
20
10
pvalue= 0.506
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
Observed frequency

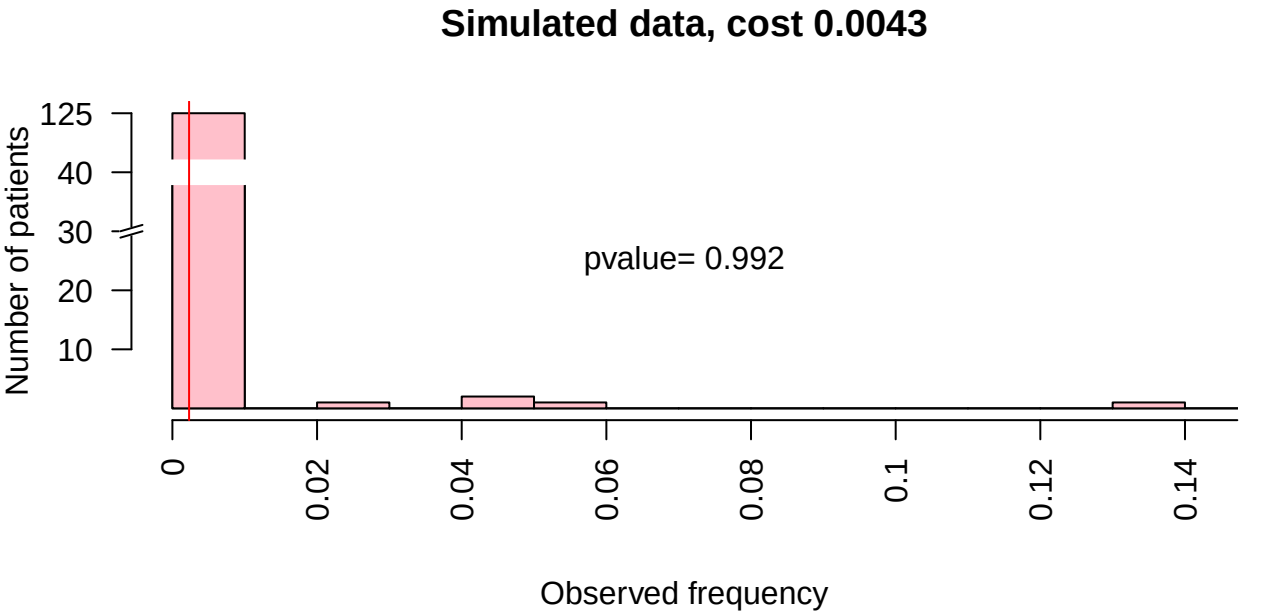

Single−SFS, site 816
Number of patients
124
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
Observed frequency

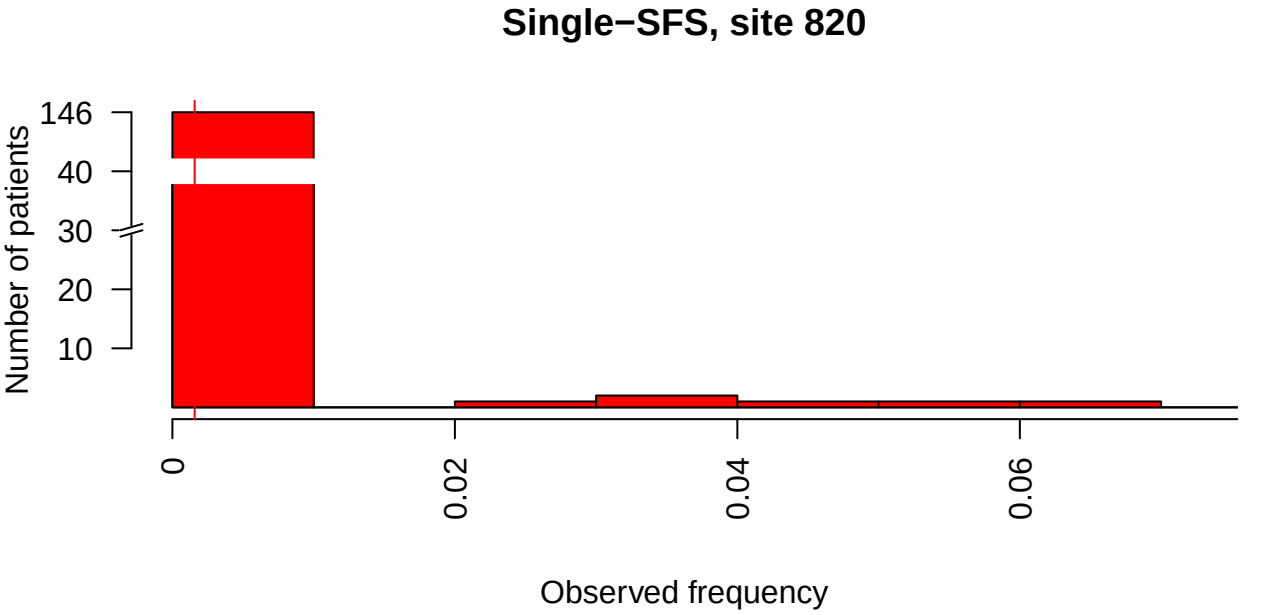

Simulated data, cost 0.0018
Number of patients
133
40
30
20
10
pvalue= 0.049
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
Observed frequency

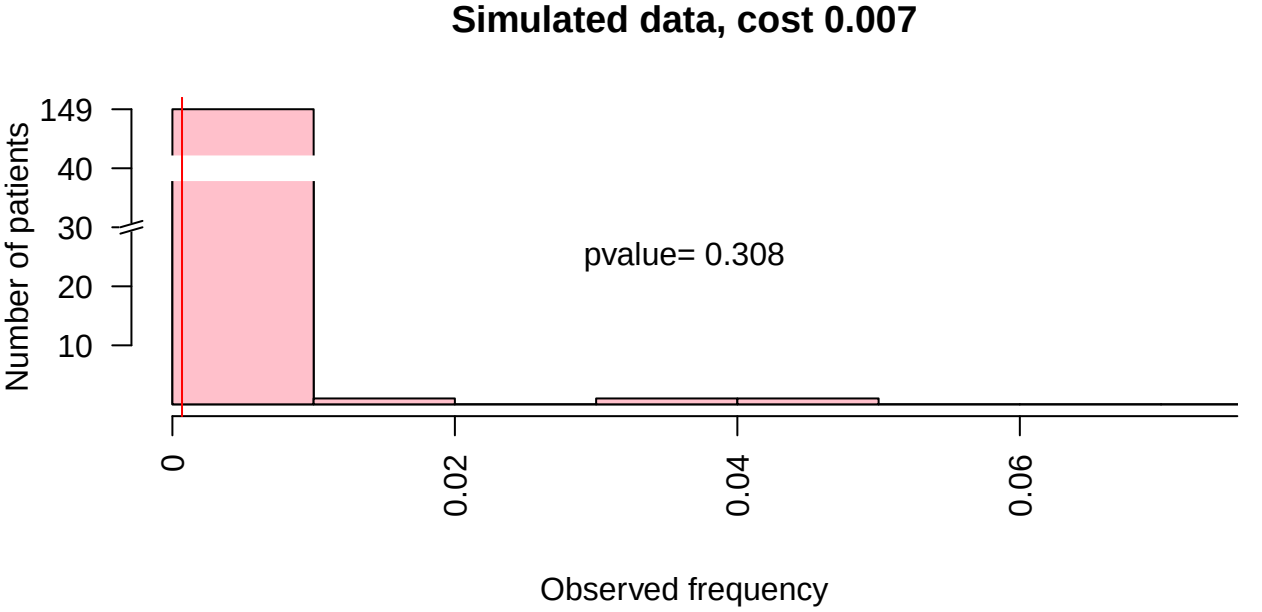

Single−SFS, site 818
Number of patients
135
40
30
20
10
0
0.02
0.04
0.06
0.08
Observed frequency

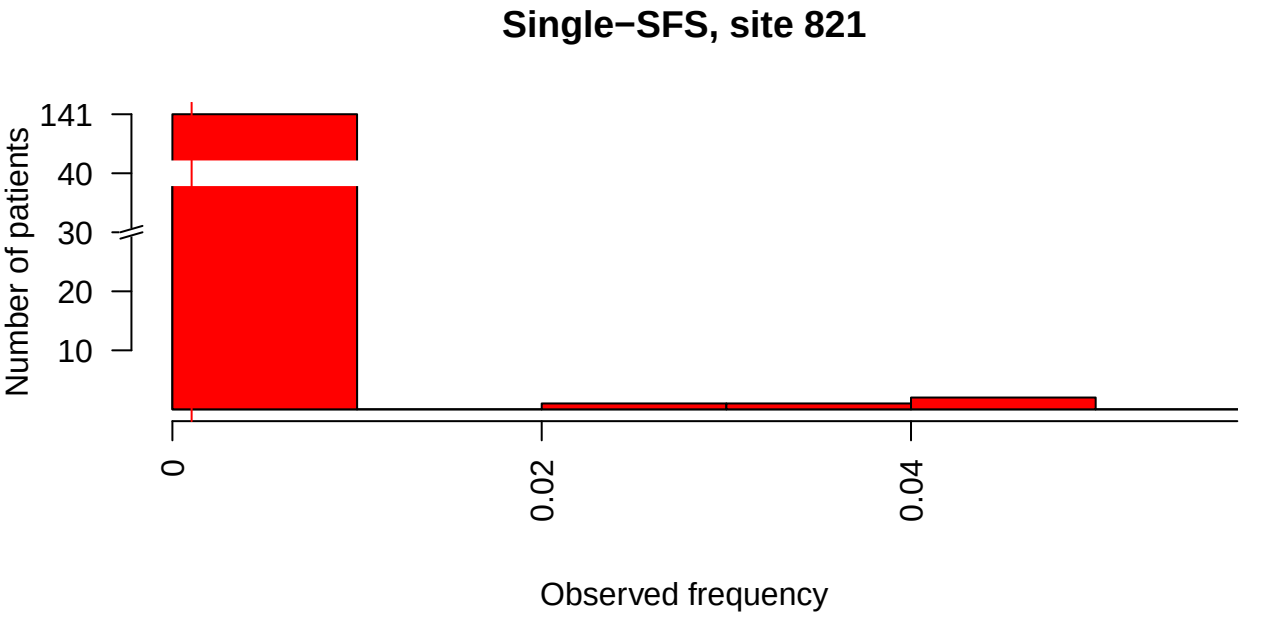

Simulated data, cost 0.0073
Number of patients
139
40
30
20
10
pvalue= 0.207
0
0.02
0.04
0.06
0.08
Observed frequency

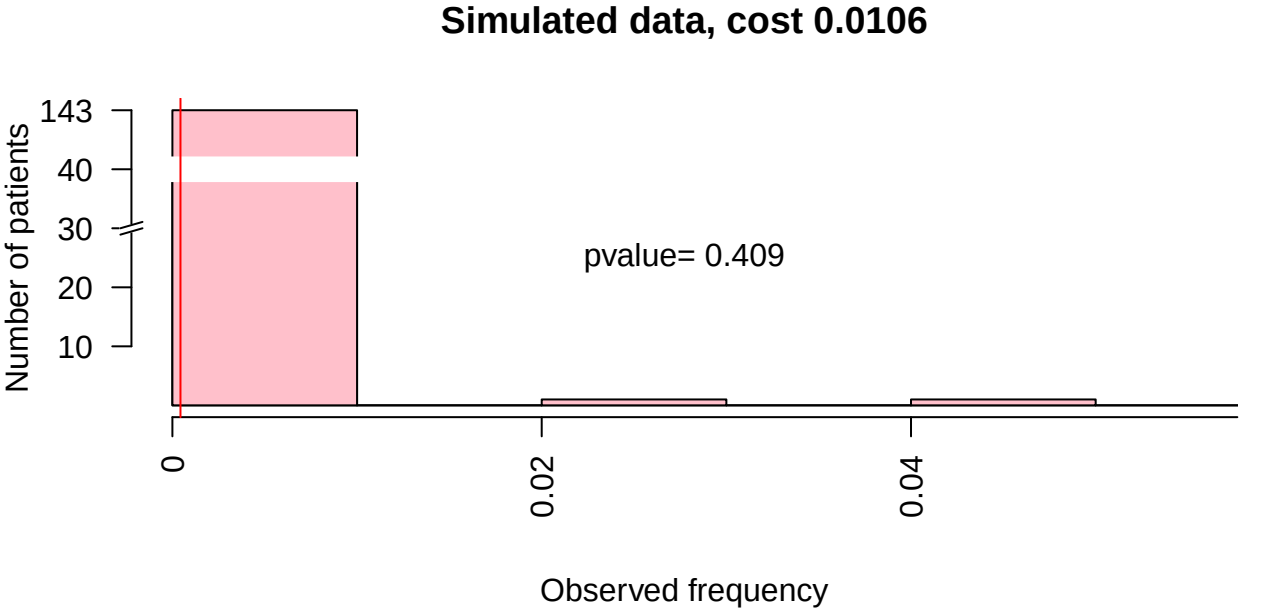

Single−SFS, site 819
Number of patients
125
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
Observed frequency

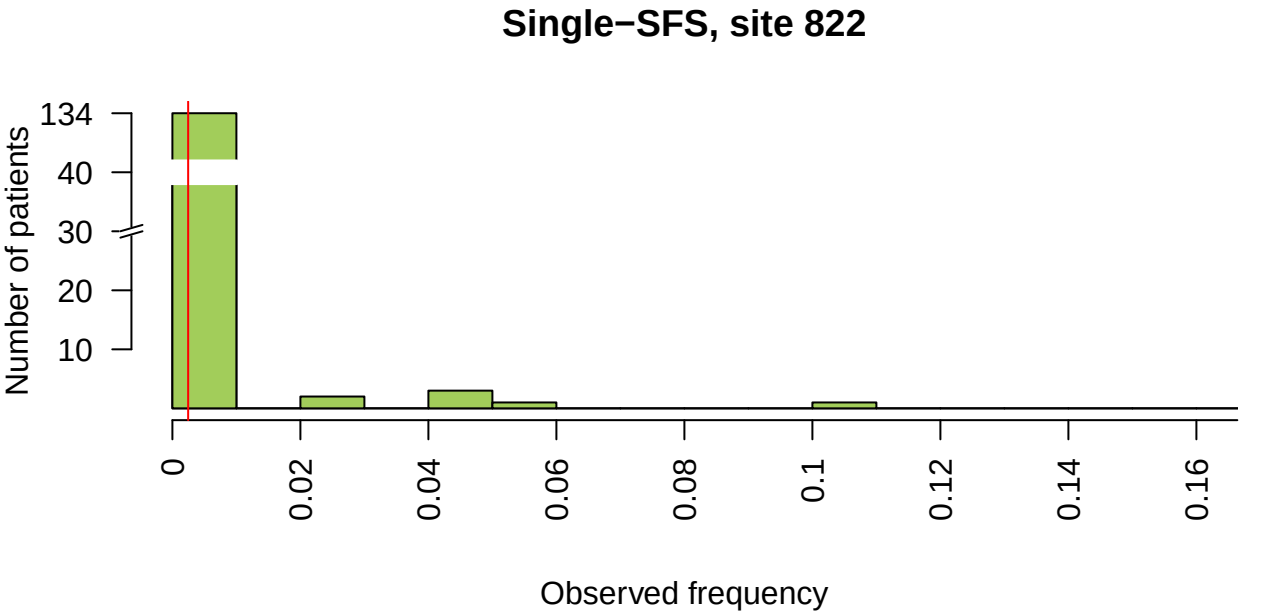

Simulated data, cost 0.0043
Number of patients
125
40
30
20
10
pvalue= 0.992
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
Observed frequency

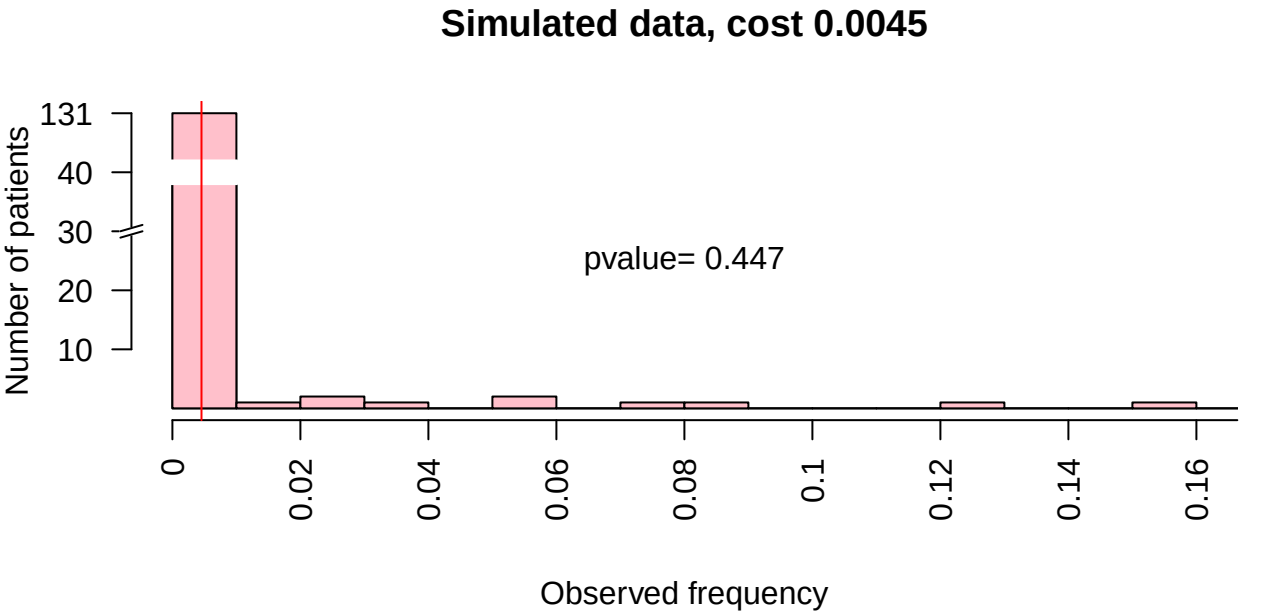

Single−SFS, site 820
Number of patients
146
40
30
20
10
0
0.02
0.04
0.06
Observed frequency

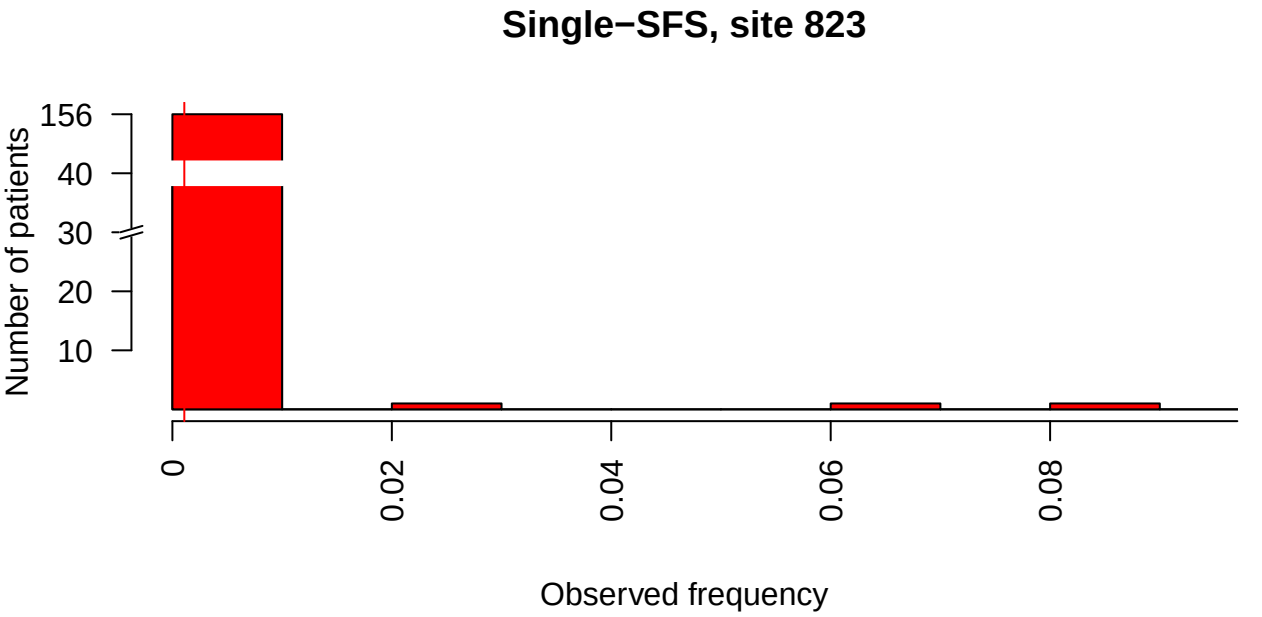

Simulated data, cost 0.007
Number of patients
149
40
30
20
10
pvalue= 0.308
0
0.02
0.04
0.06
Observed frequency

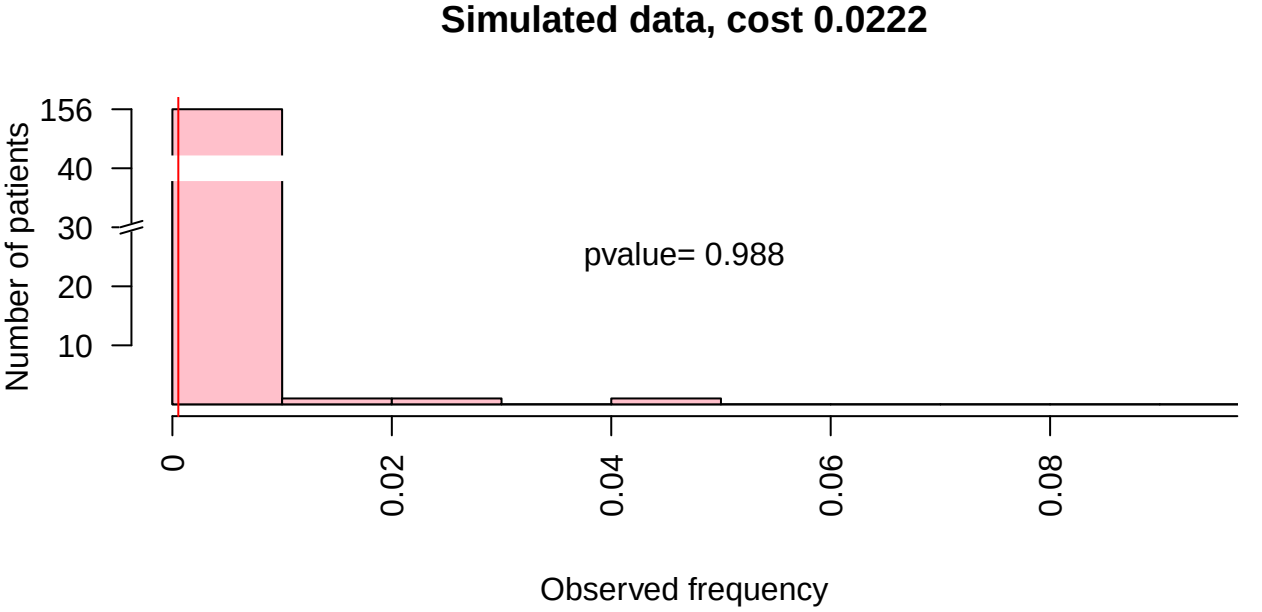

Single−SFS, site 821
Number of patients
141
40
30
20
10
0
0.02
0.04
Observed frequency

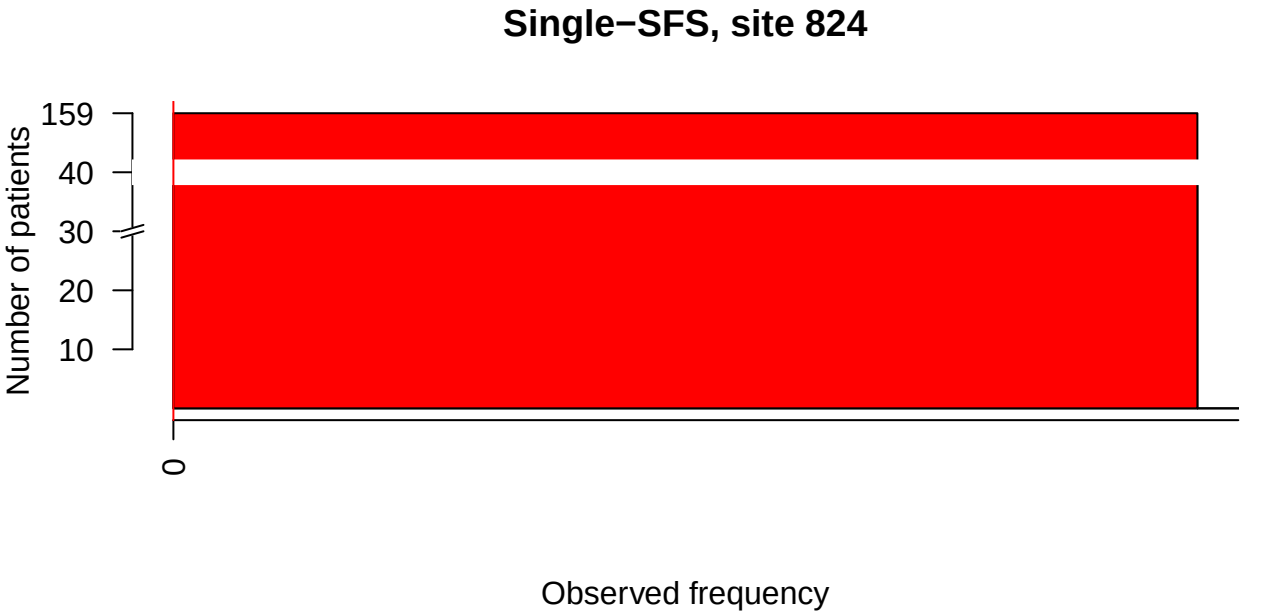

Simulated data, cost 0.0106
Number of patients
143
40
30
20
10
pvalue= 0.409
0
0.02
0.04
Observed frequency

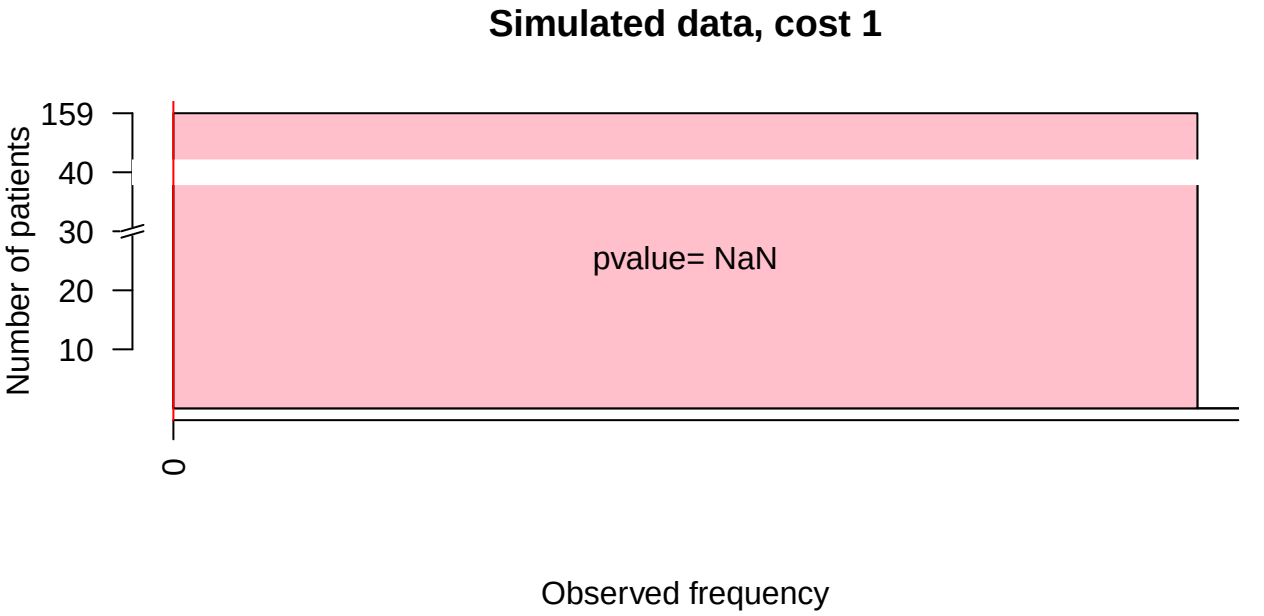

Single−SFS, site 822
Number of patients
134
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
Observed frequency

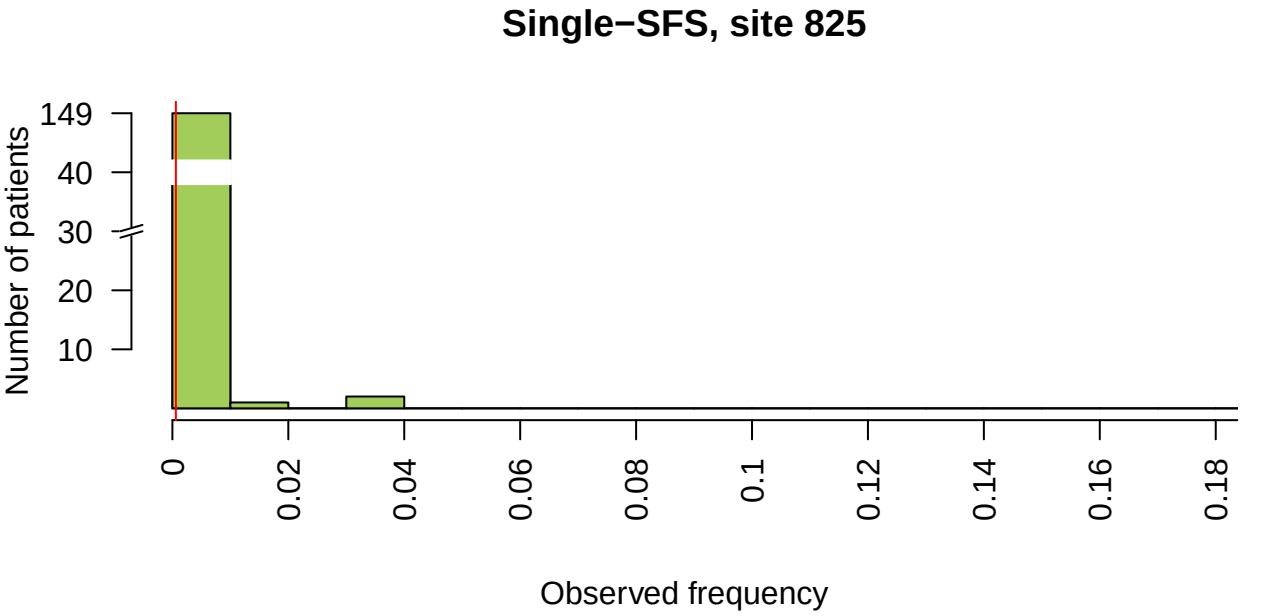

Simulated data, cost 0.0045
Number of patients
131
40
30
20
10
pvalue= 0.447
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
Observed frequency

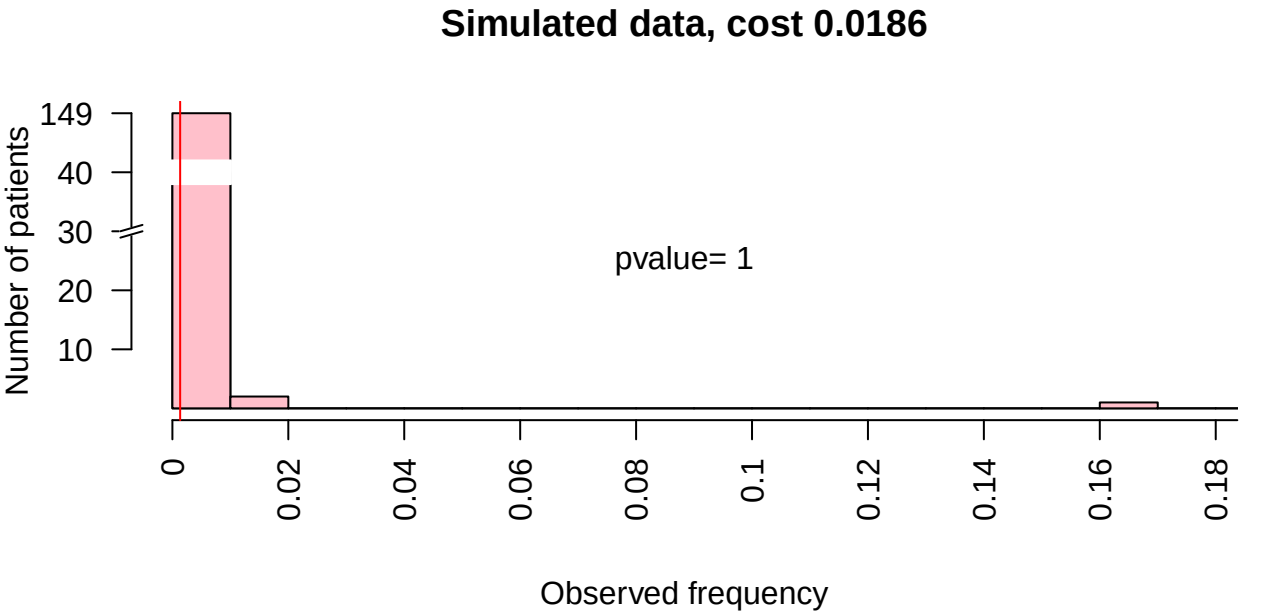

Single−SFS, site 823
Number of patients
156
40
30
20
10
0
0.02
0.04
0.06
0.08
Observed frequency

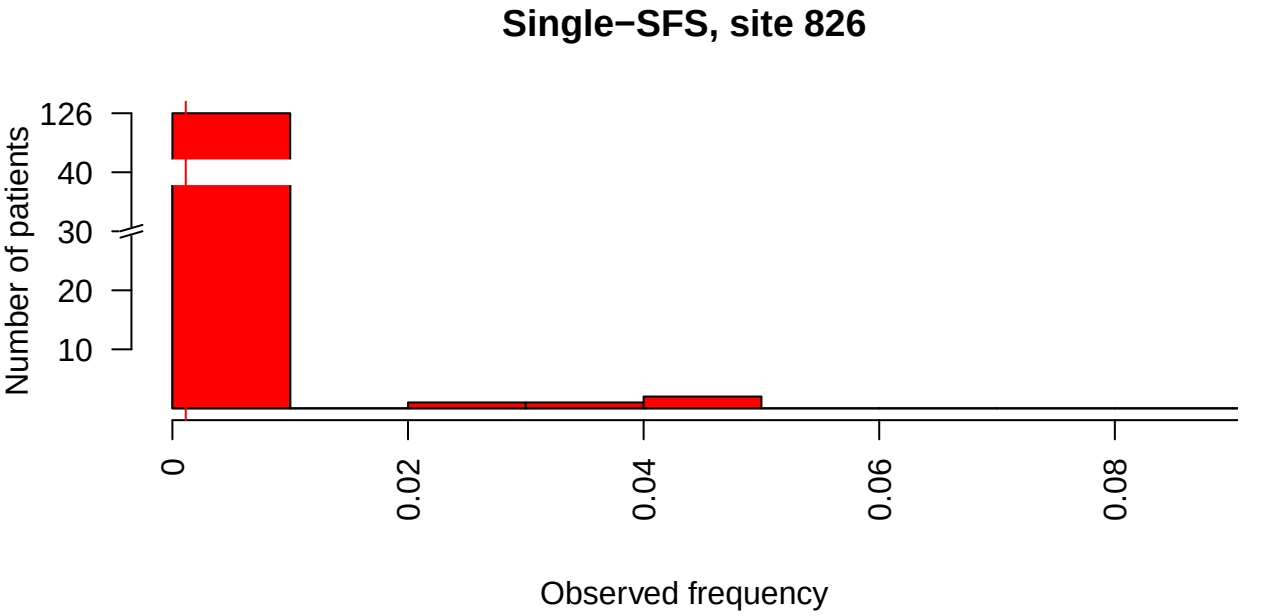

Simulated data, cost 0.0222
Number of patients
156
40
30
20
10
pvalue= 0.988
0
0.02
0.04
0.06
0.08
Observed frequency

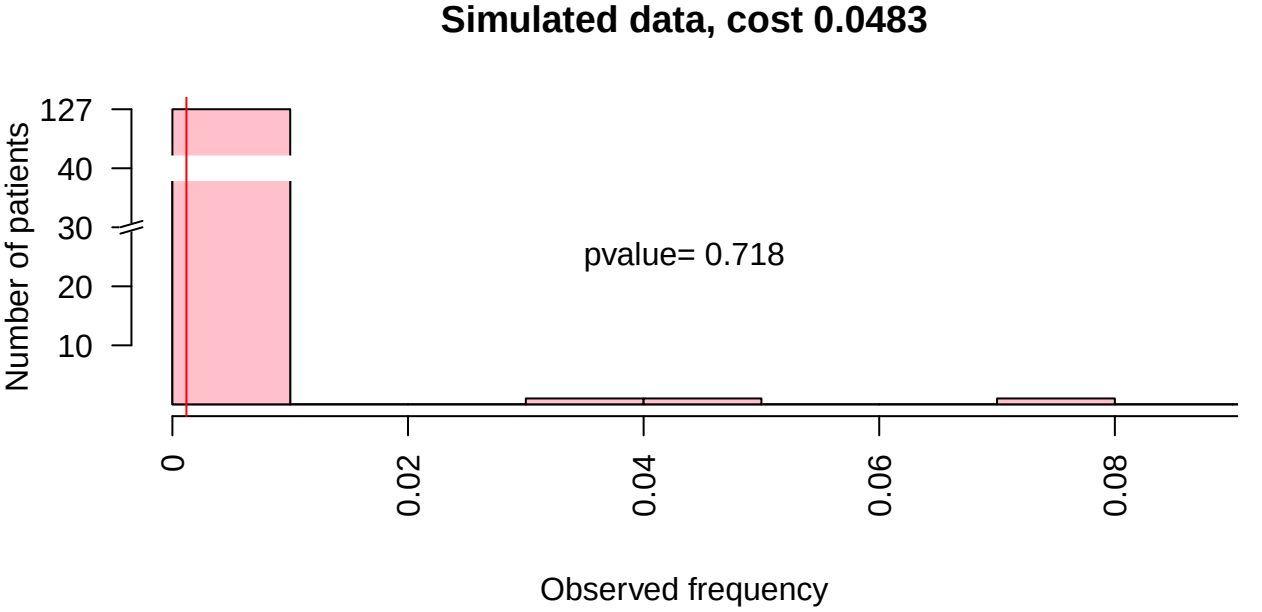

Single−SFS, site 824
Number of patients
159
40
30
20
10
0
Observed frequency

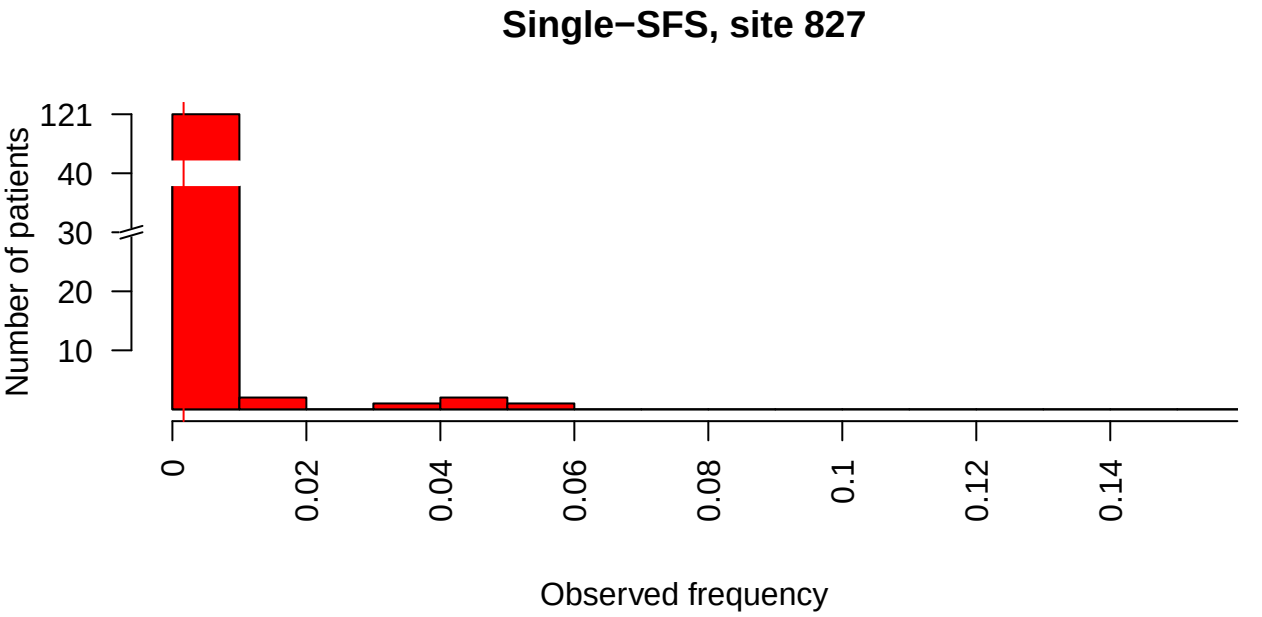

Simulated data, cost 1
Number of patients
159
40
30
20
10
0
pvalue= NaN
Observed frequency

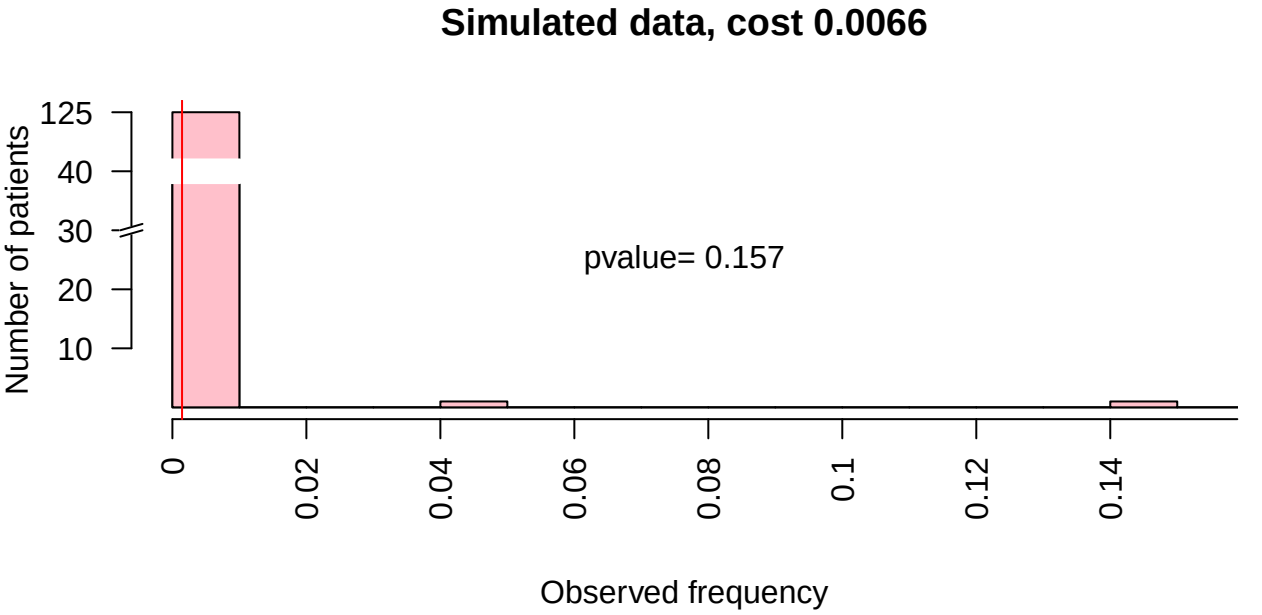

Single−SFS, site 825
Number of patients
149
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
Observed frequency

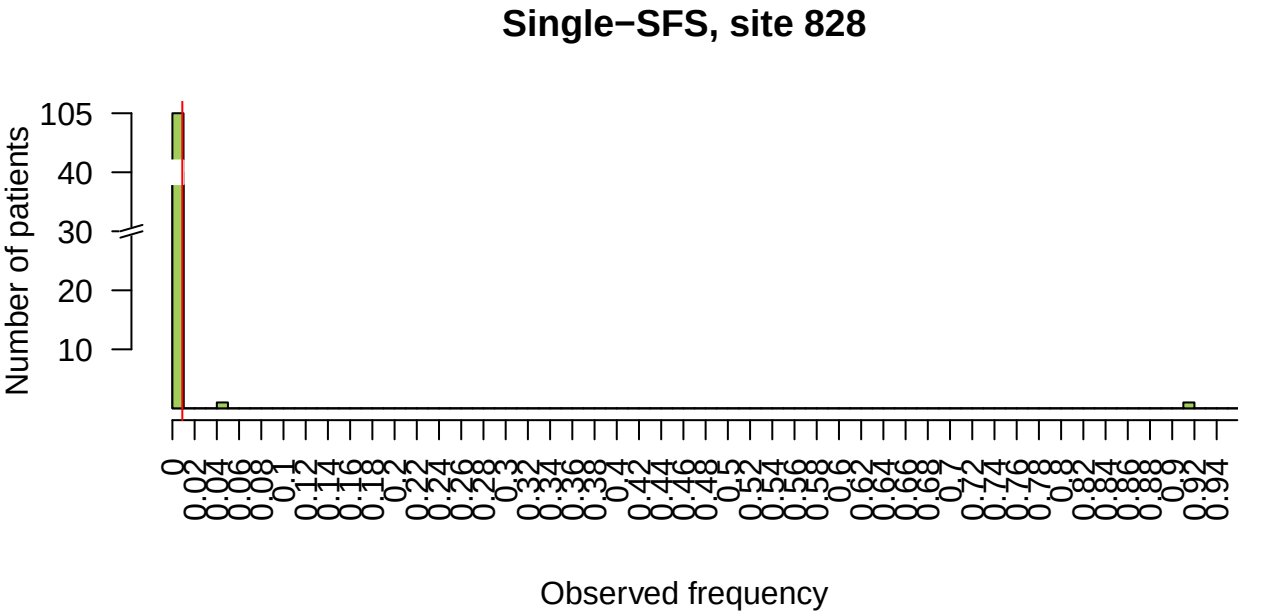

Simulated data, cost 0.0186
Number of patients
149
40
30
20
10
pvalue= 1
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
Observed frequency

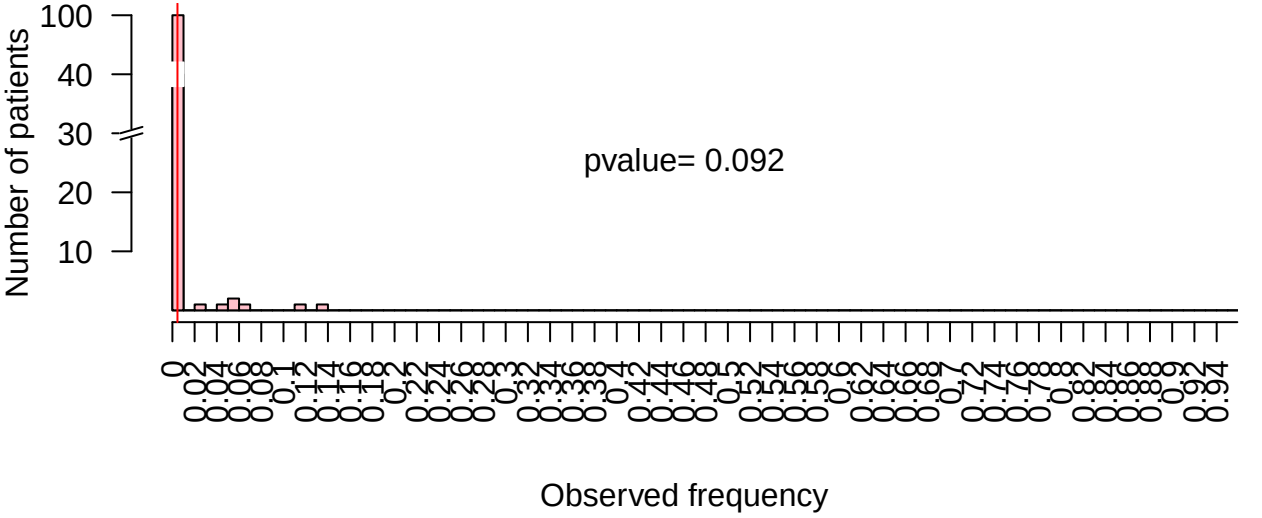

Single−SFS, site 826
Number of patients
126
40
30
20
10
0
0.02
0.04
0.06
0.08
Observed frequency

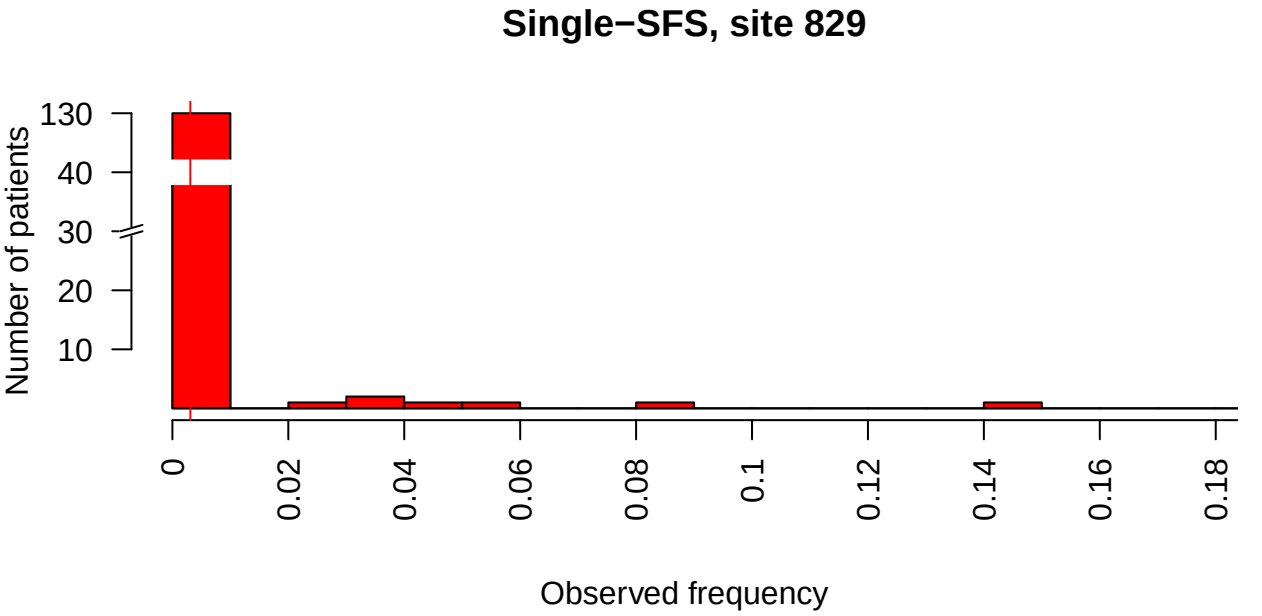

Simulated data, cost 0.0483
Number of patients
127
40
30
20
10
pvalue= 0.718
0
0.02
0.04
0.06
0.08
Observed frequency

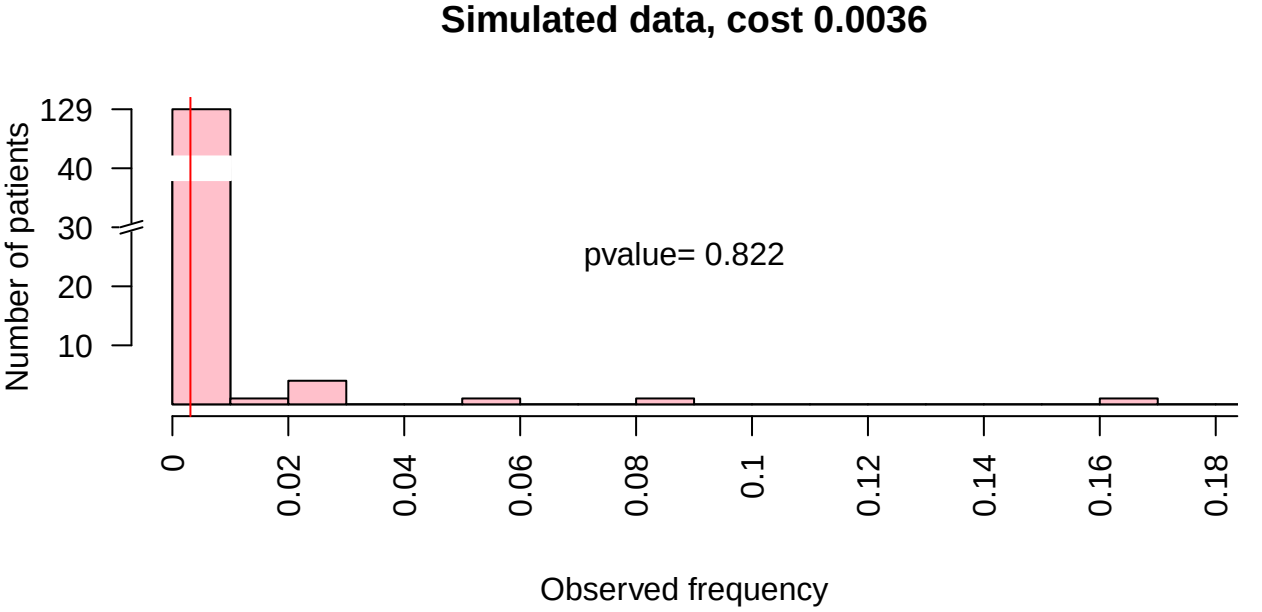

Single−SFS, site 827
Number of patients
121
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
Observed frequency

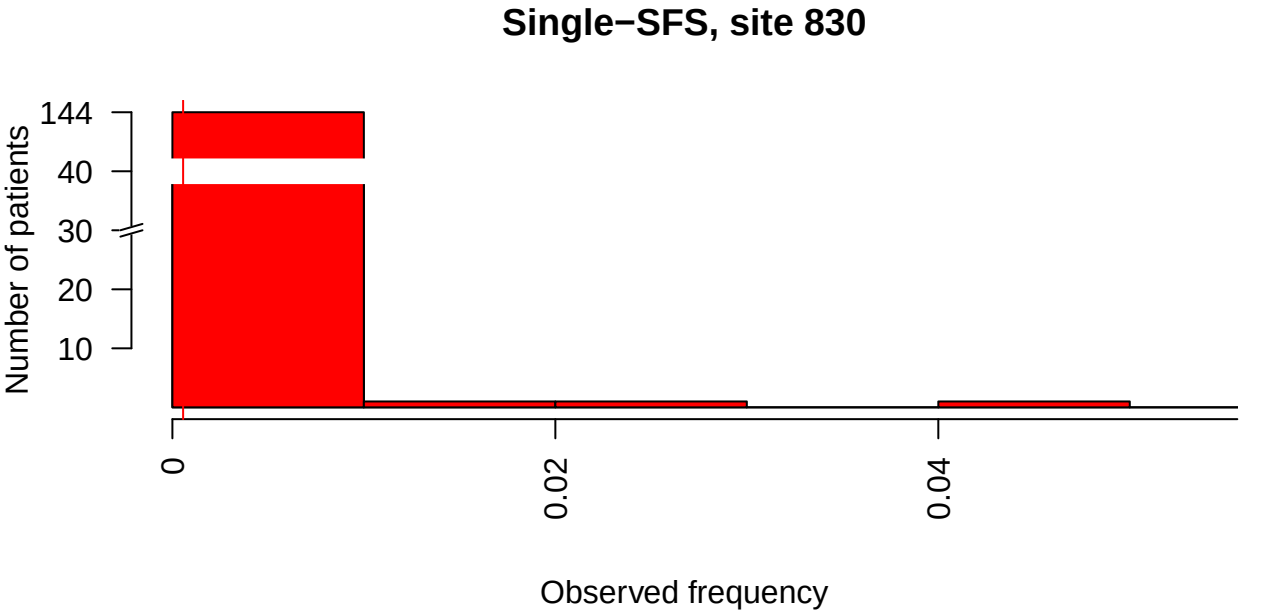

Simulated data, cost 0.0066
Number of patients
125
40
30
20
10
pvalue= 0.157
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
Observed frequency

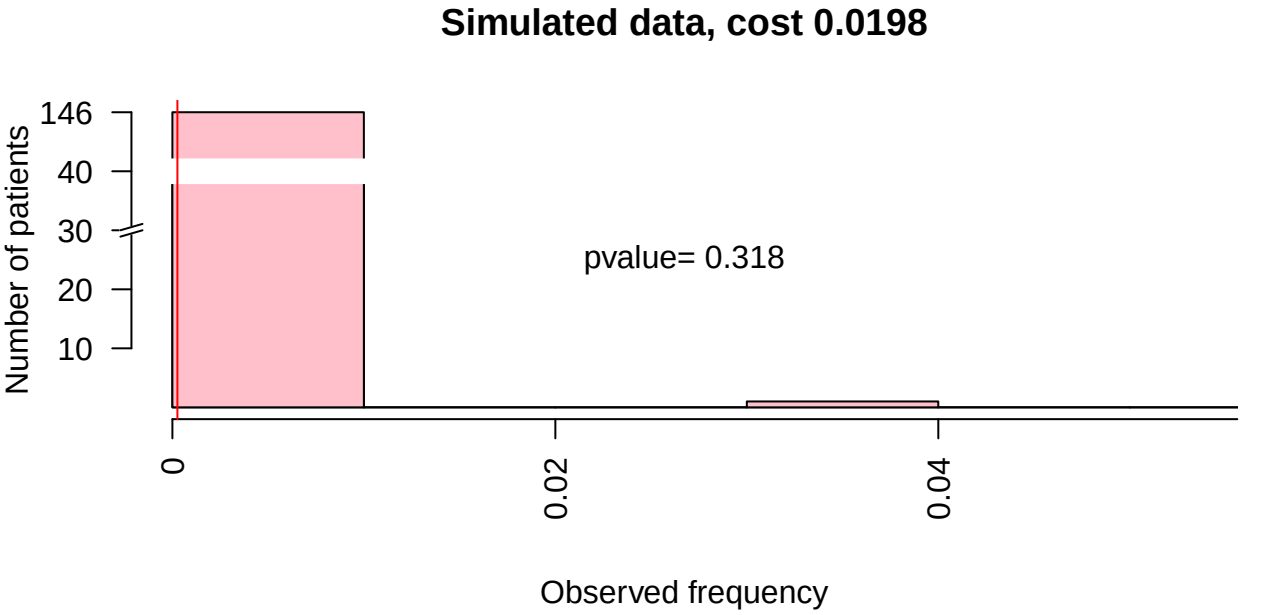

Single−SFS, site 828
Number of patients
105
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
0.24
0.26
0.28
0.3
0.32
0.34
0.36
0.38
0.4
0.42
0.44
0.46
0.48
0.5
0.52
0.54
0.56
0.58
0.6
0.62
0.64
0.66
0.68
0.7
0.72
0.74
0.76
0.78
0.8
0.82
0.84
0.86
0.88
0.9
0.92
0.94
Observed frequency

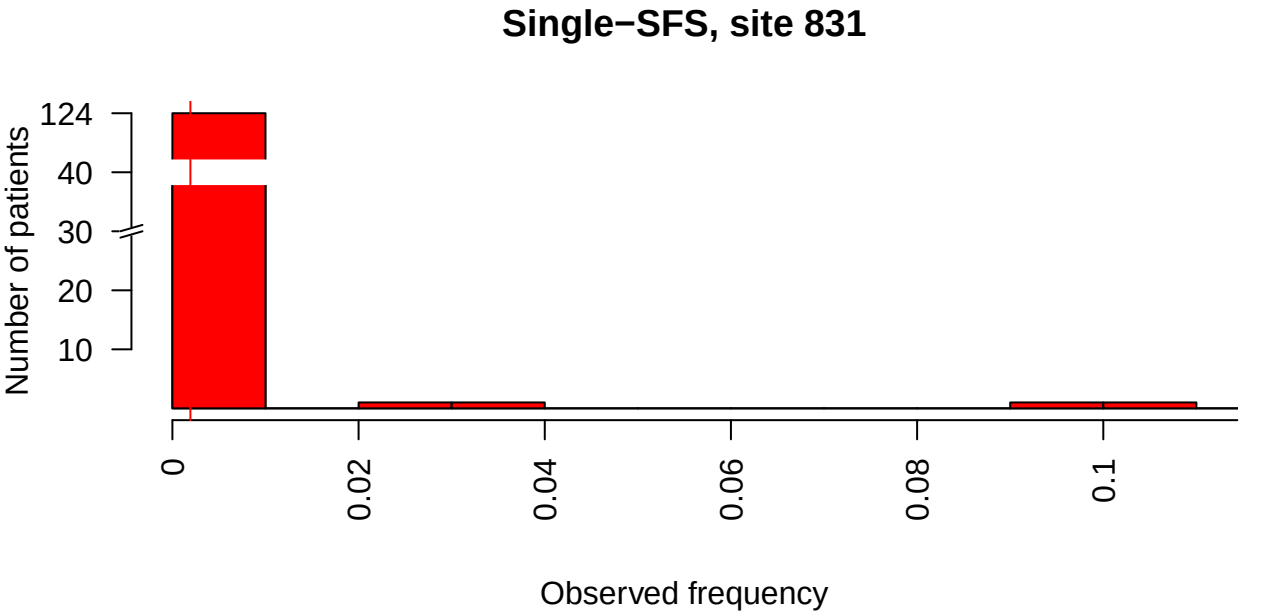

Simulated data, cost 0.0027
Number of patients
100
40
30
20
10
pvalue= 0.092
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
0.24
0.26
0.28
0.3
0.32
0.34
0.36
0.38
0.4
0.42
0.44
0.46
0.48
0.5
0.52
0.54
0.56
0.58
0.6
0.62
0.64
0.66
0.68
0.7
0.72
0.74
0.76
0.78
0.8
0.82
0.84
0.86
0.88
0.9
0.92
0.94
Observed frequency

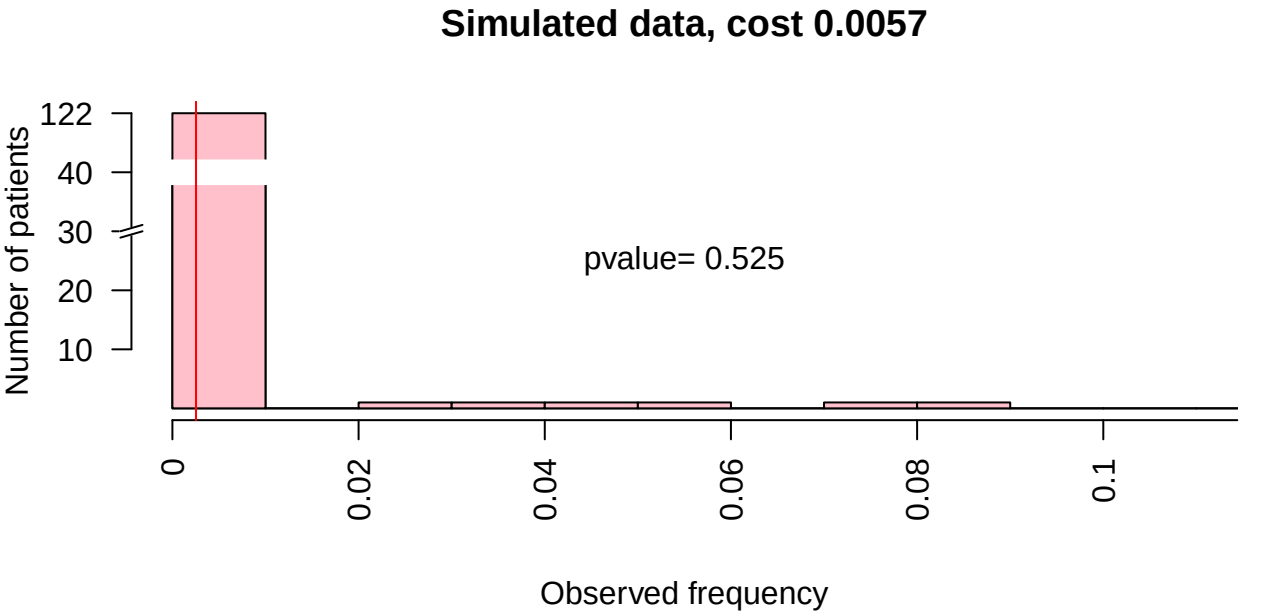

Single−SFS, site 829
Number of patients
130
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
Observed frequency

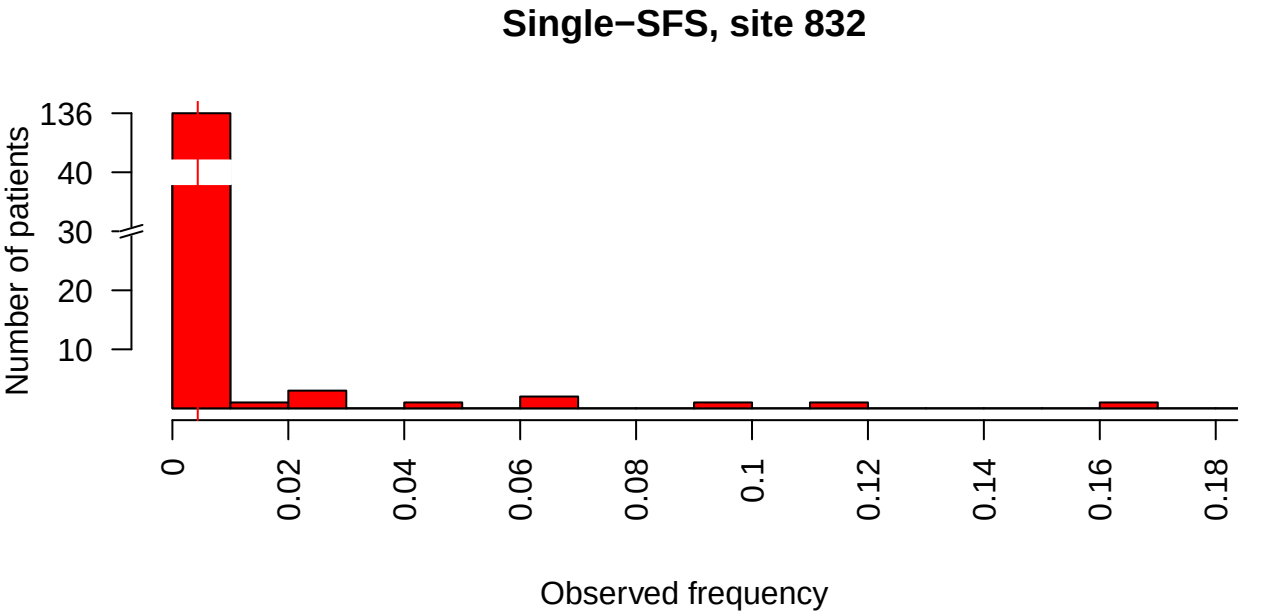

Simulated data, cost 0.0036
Number of patients
129
40
30
20
10
pvalue= 0.822
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
Observed frequency

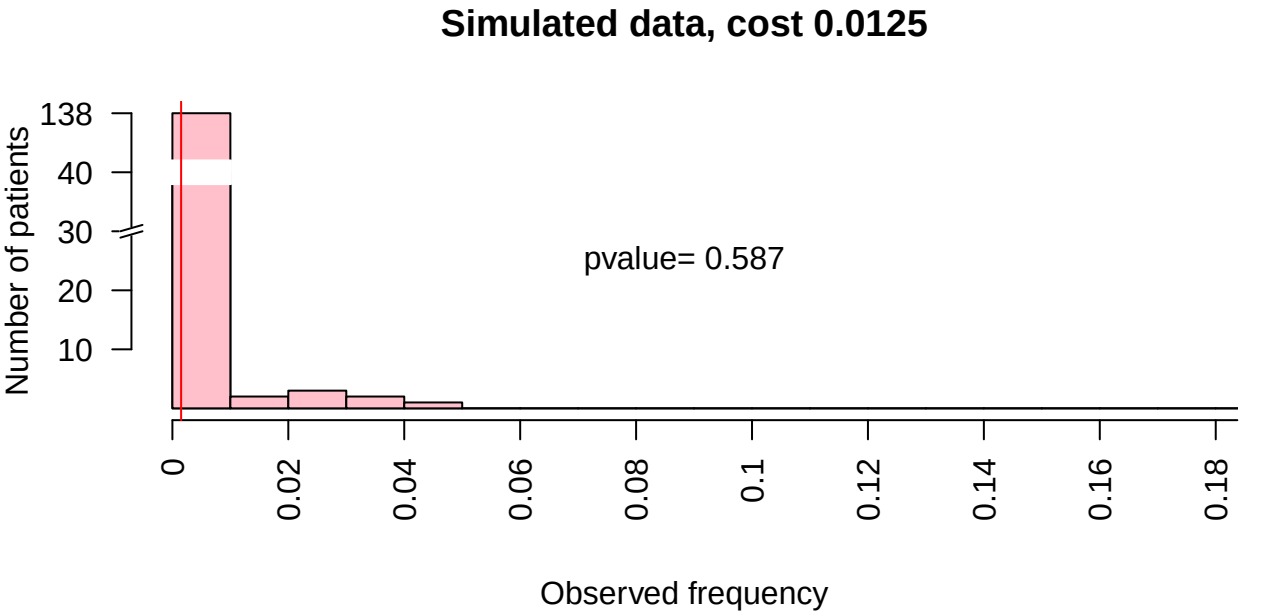

Single−SFS, site 830
Number of patients
144
40
30
20
10
0
0.02
0.04
Observed frequency

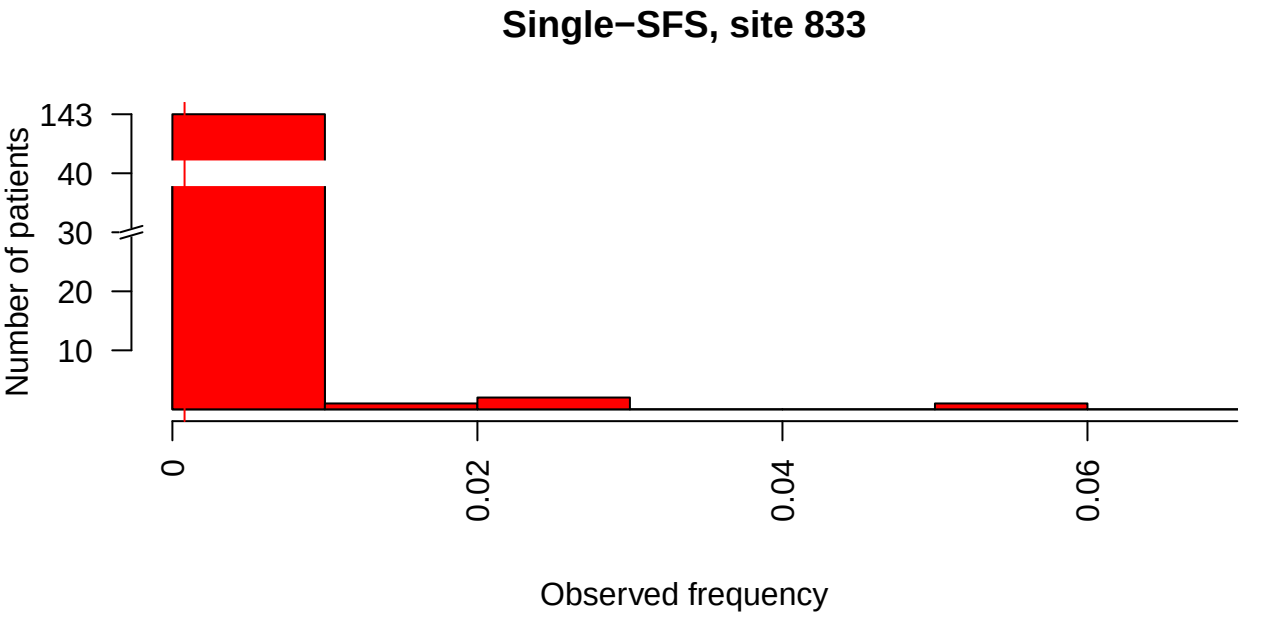

Simulated data, cost 0.0198
Number of patients
146
40
30
20
10
pvalue= 0.318
0
0.02
0.04
Observed frequency

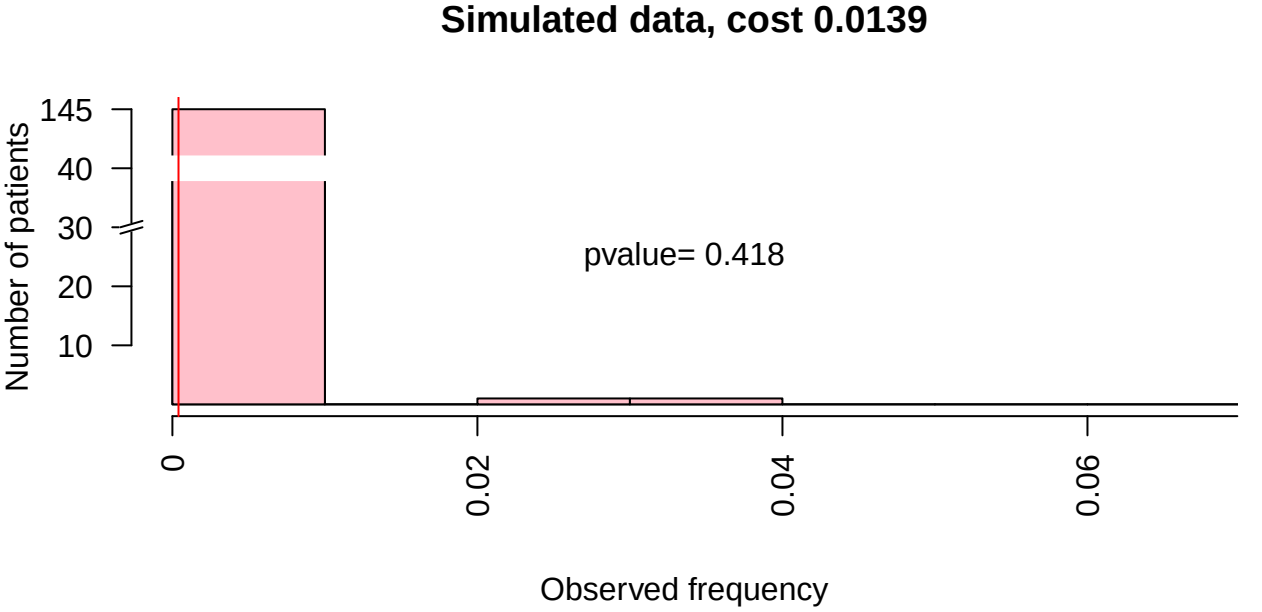

Single−SFS, site 831
Number of patients
124
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
Observed frequency

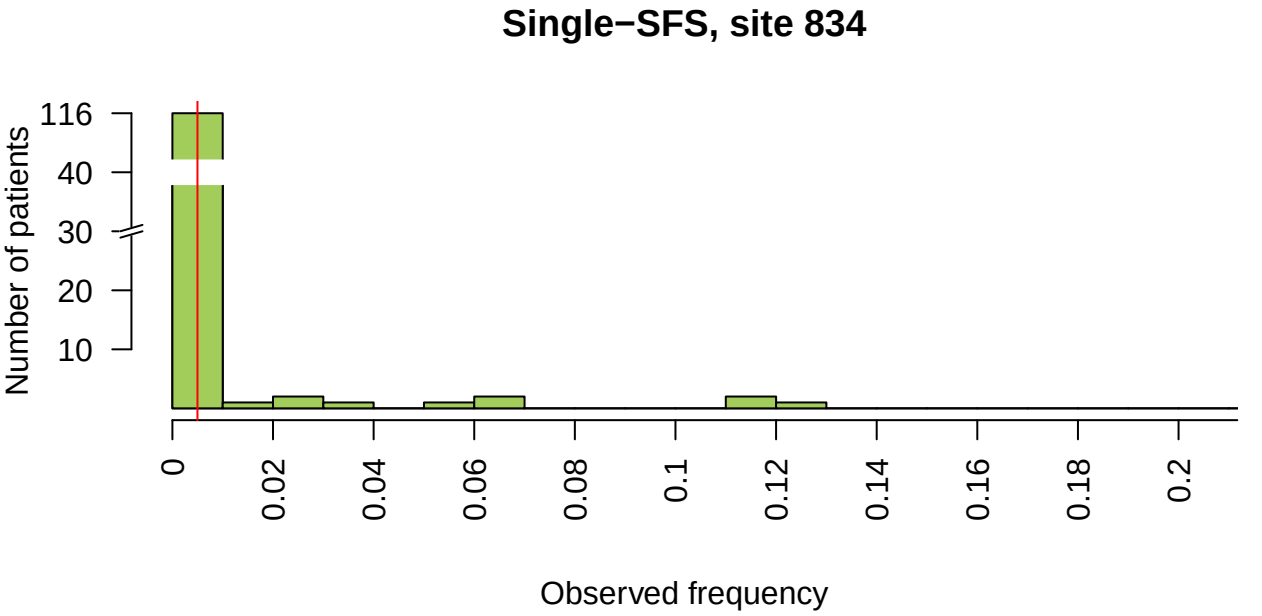

Simulated data, cost 0.0057
Number of patients
122
40
30
20
10
pvalue= 0.525
0
0.02
0.04
0.06
0.08
0.1
Observed frequency

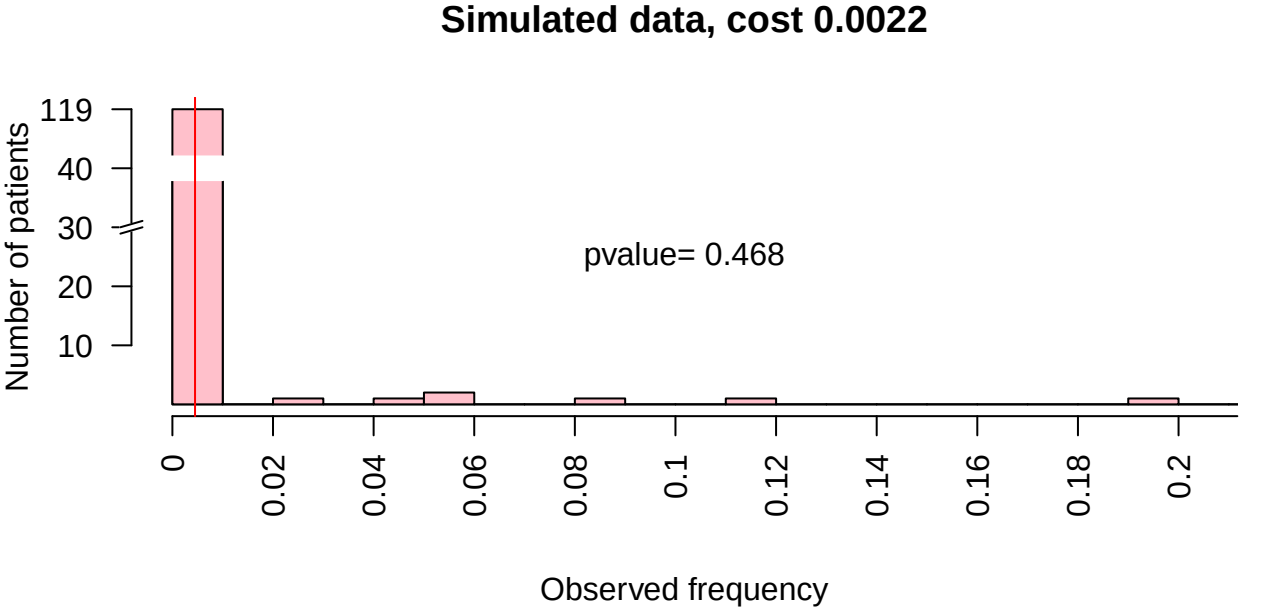

Single−SFS, site 832
Number of patients
136
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
Observed frequency

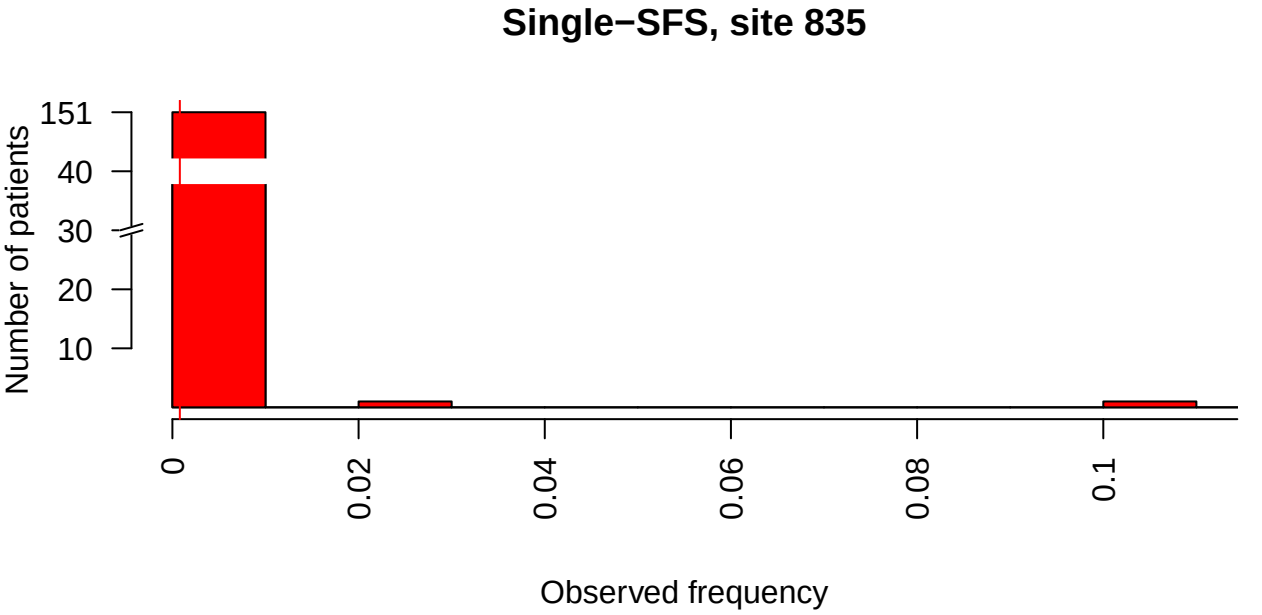

Simulated data, cost 0.0125
Number of patients
138
40
30
20
10
pvalue= 0.587
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
Observed frequency

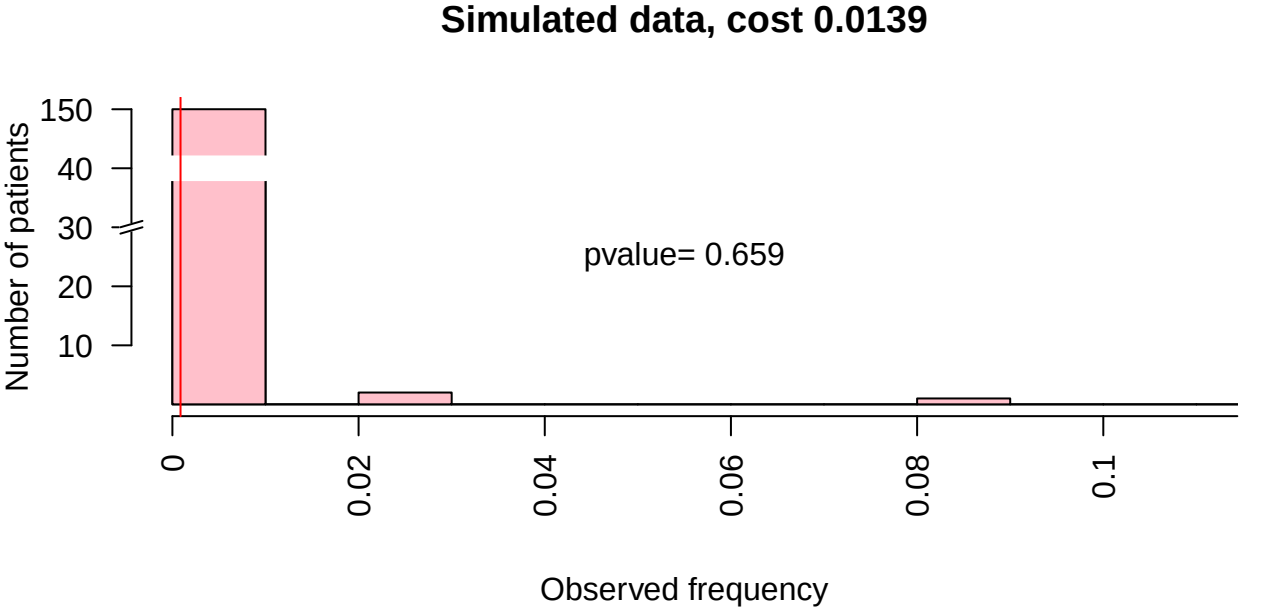

Single−SFS, site 833
Number of patients
143
40
30
20
10
0
0.02
0.04
0.06
Observed frequency

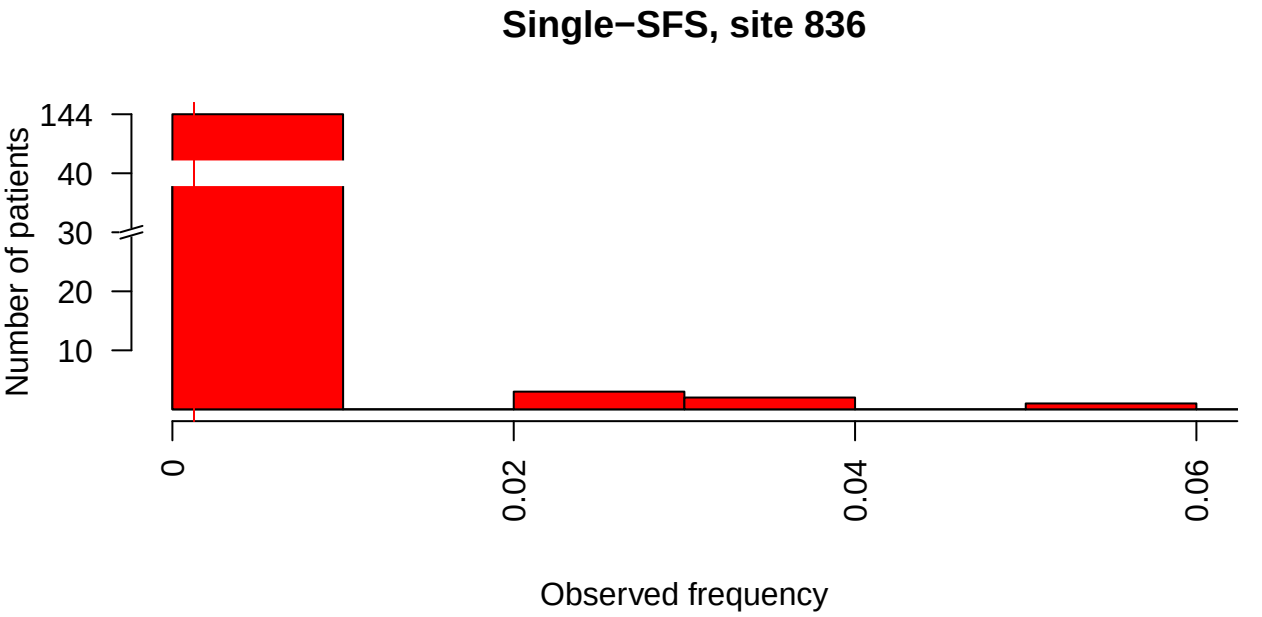

Simulated data, cost 0.0139
Number of patients
145
40
30
20
10
pvalue= 0.418
0
0.02
0.04
0.06
Observed frequency

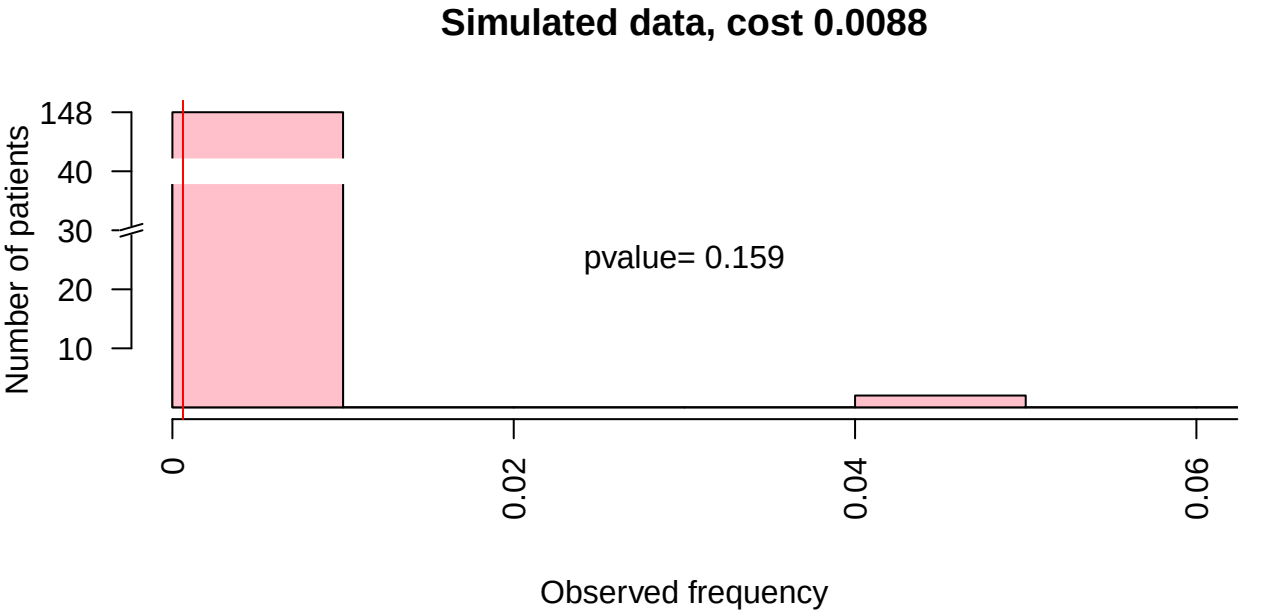

Single−SFS, site 834
Number of patients
116
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
Observed frequency

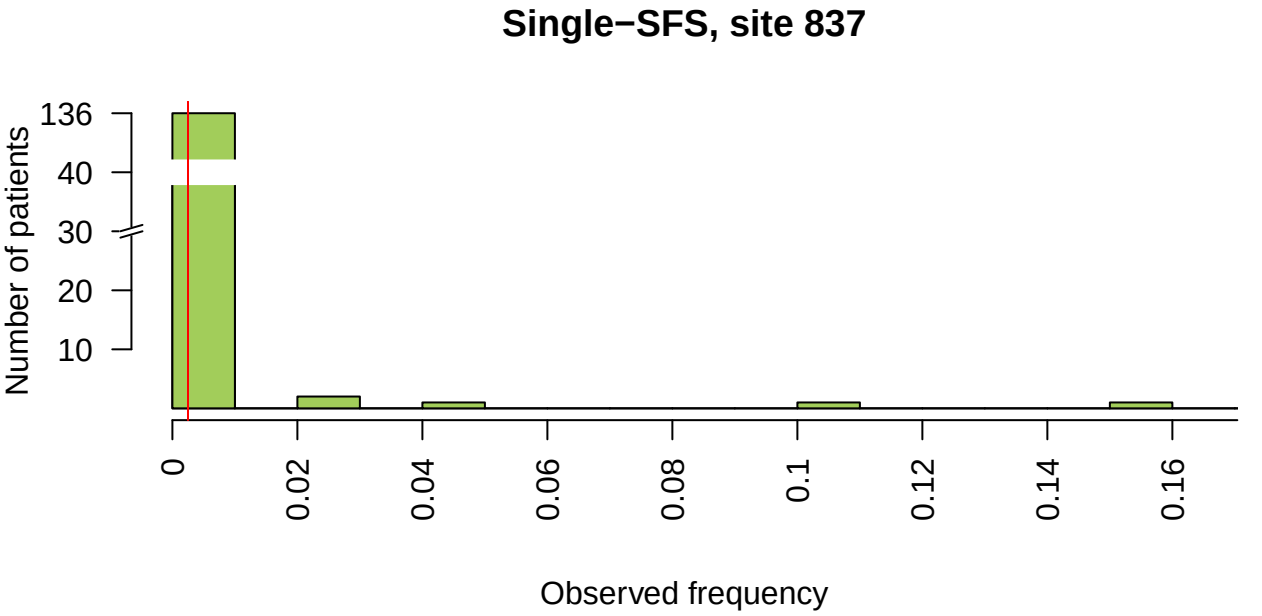

Simulated data, cost 0.0022
Number of patients
119
40
30
20
10
pvalue= 0.468
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
Observed frequency

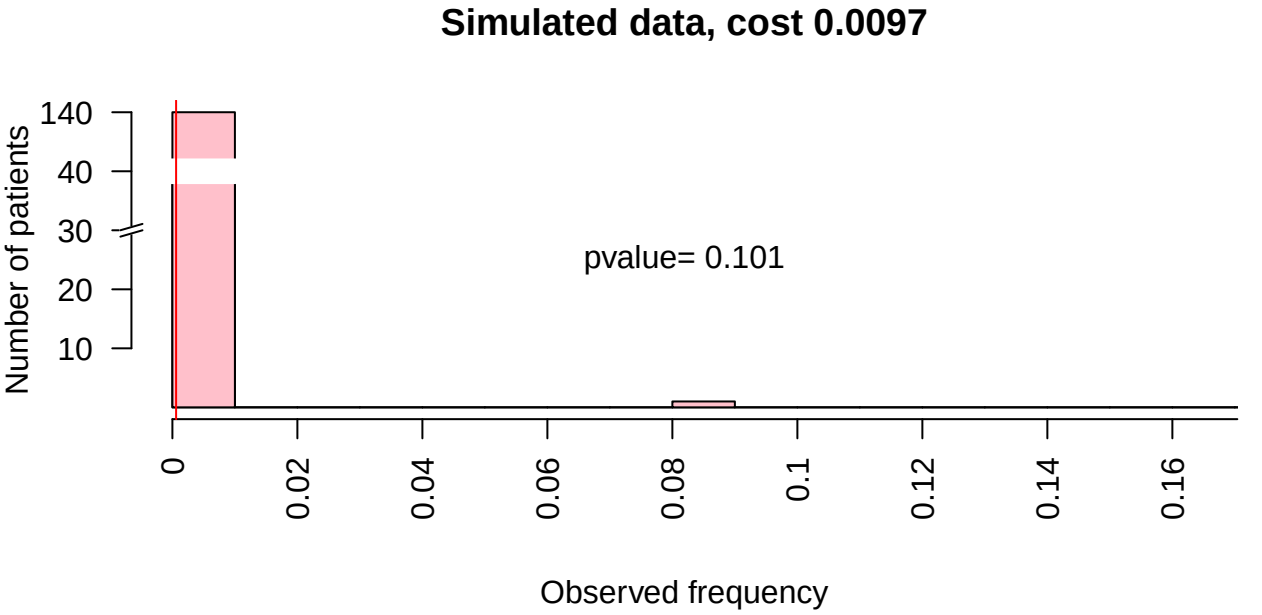

Single−SFS, site 835
Number of patients
151
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
Observed frequency

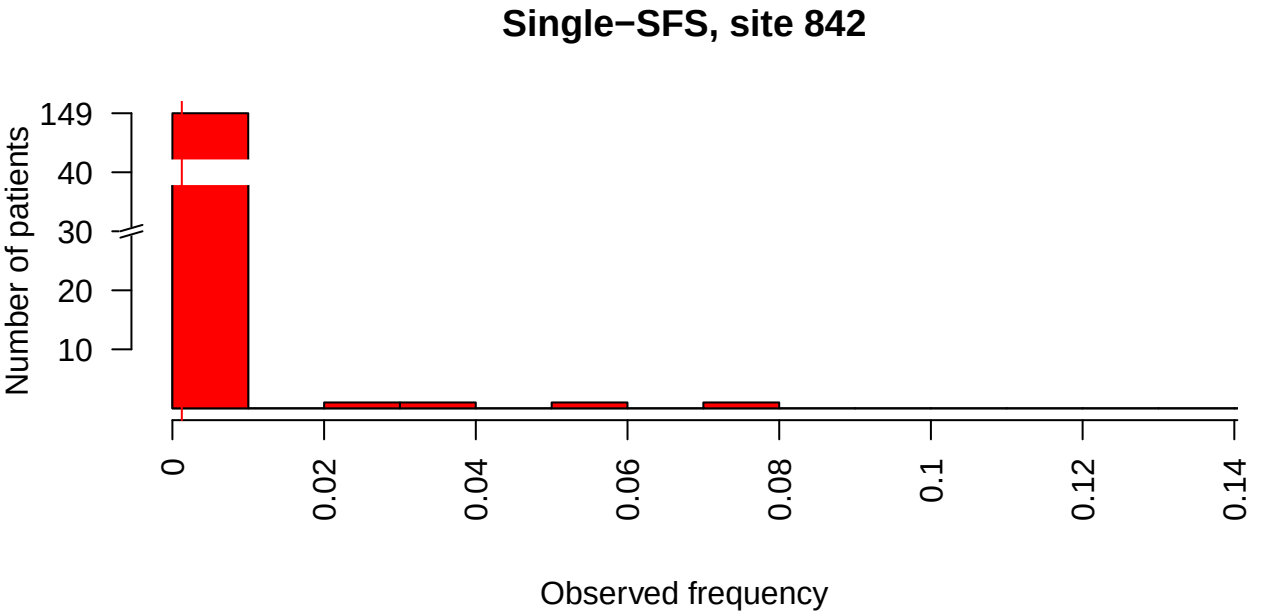

Simulated data, cost 0.0139
Number of patients
150
40
30
20
10
pvalue= 0.659
0
0.02
0.04
0.06
0.08
0.1
Observed frequency

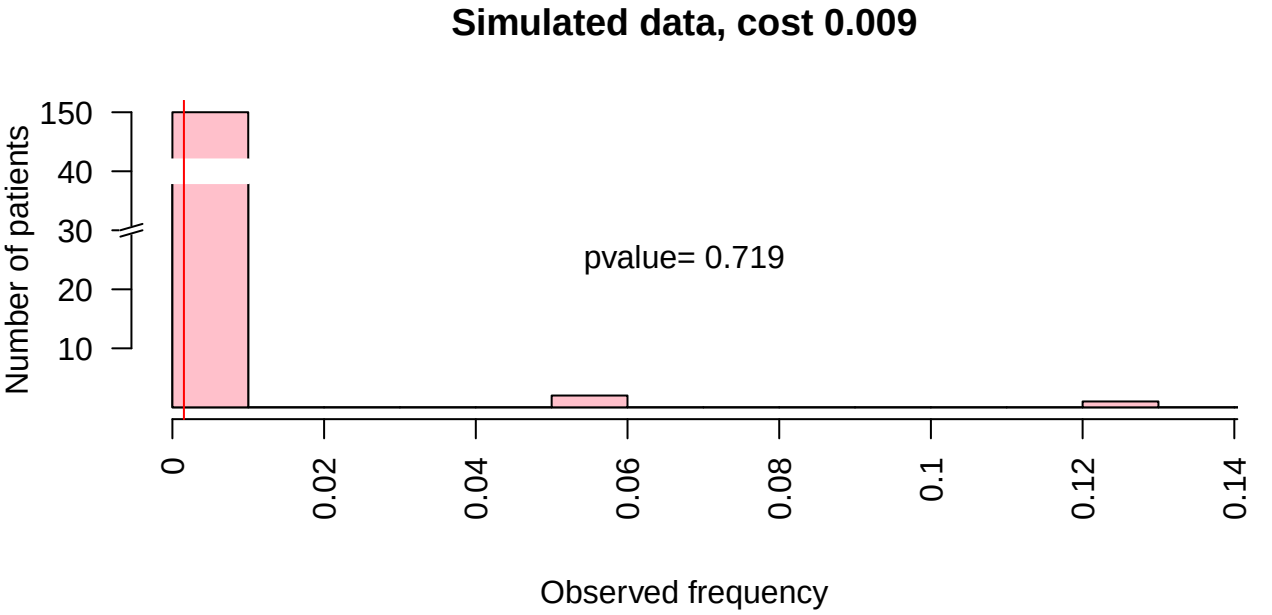

Single−SFS, site 836
Number of patients
144
40
30
20
10
0
0.02
0.04
0.06
Observed frequency

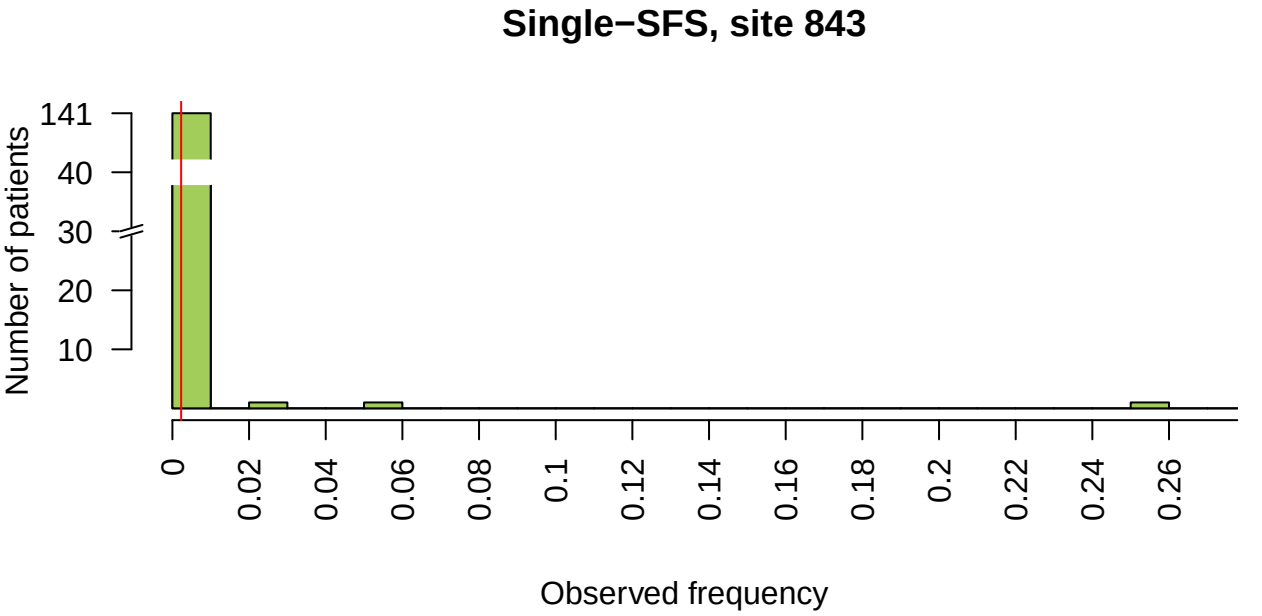

Simulated data, cost 0.0088
Number of patients
148
40
30
20
10
pvalue= 0.159
0
0.02
0.04
0.06
Observed frequency

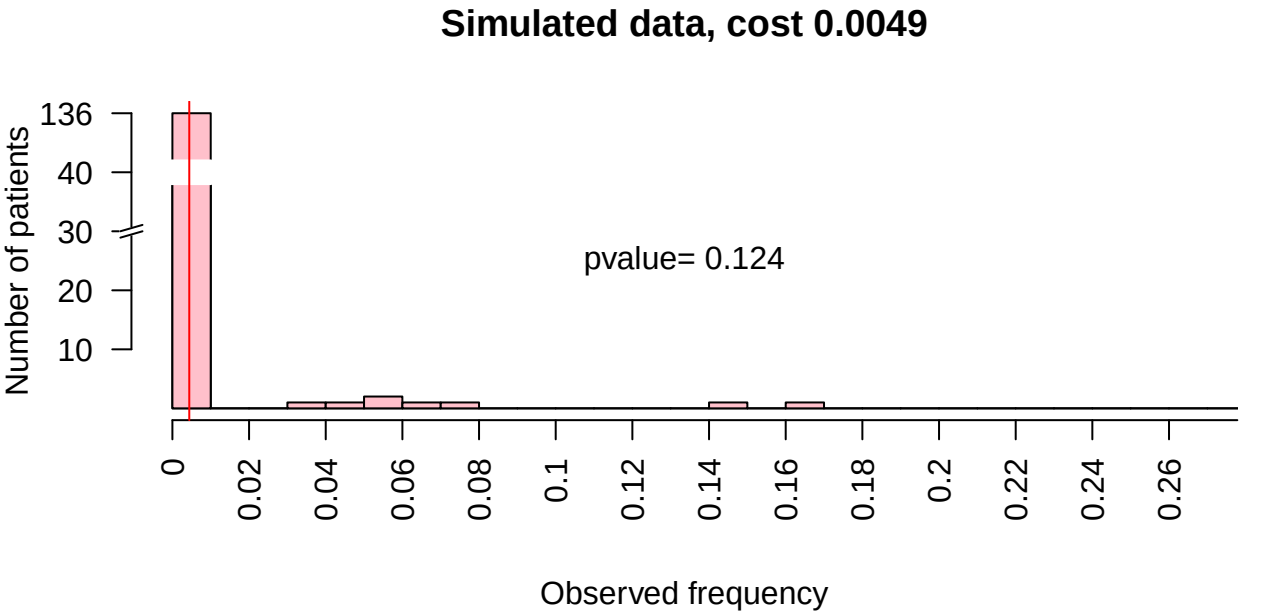

Single−SFS, site 837
Number of patients
136
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
Observed frequency

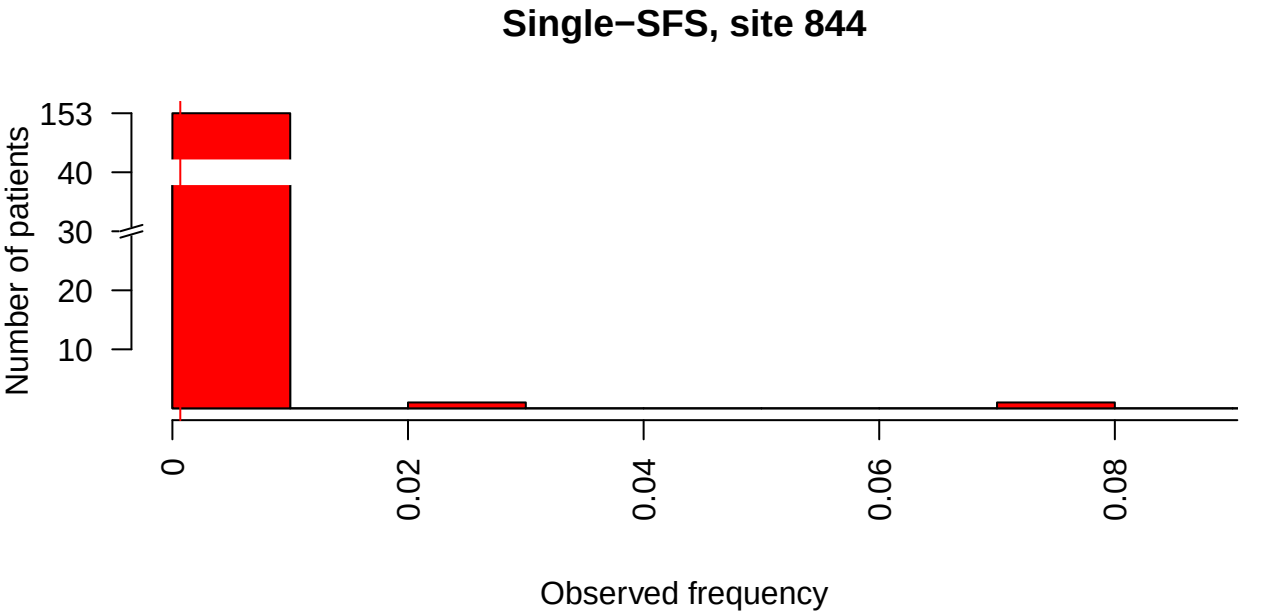

Simulated data, cost 0.0097
Number of patients
140
40
30
20
10
pvalue= 0.101
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
Observed frequency

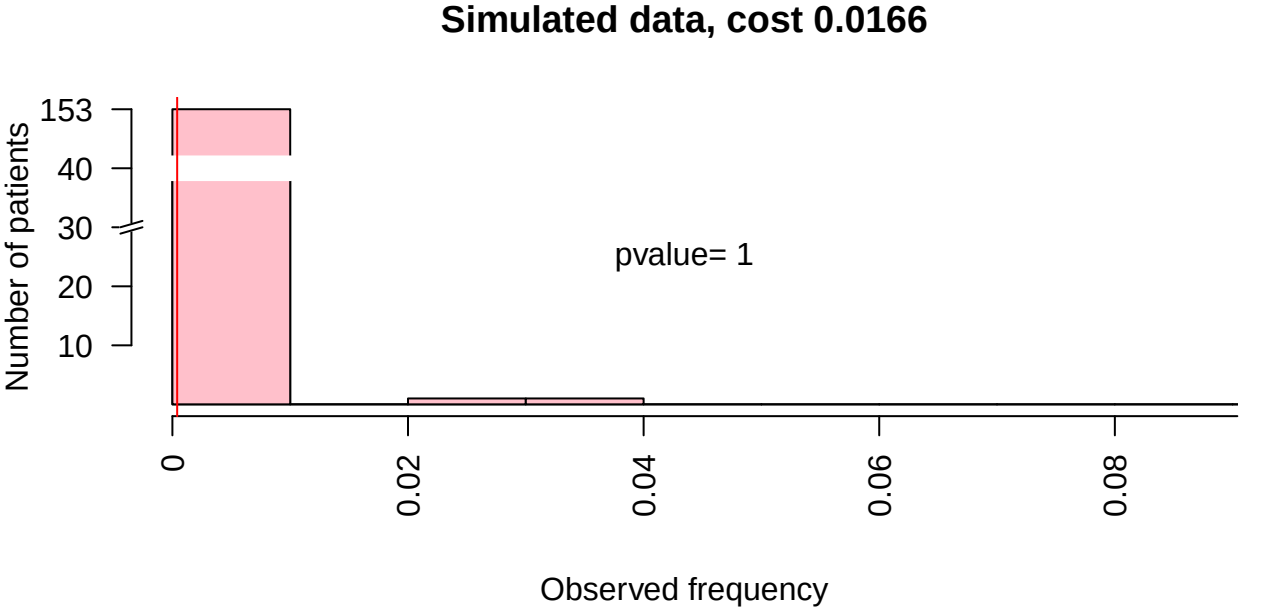

Single−SFS, site 842
Number of patients
149
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
Observed frequency

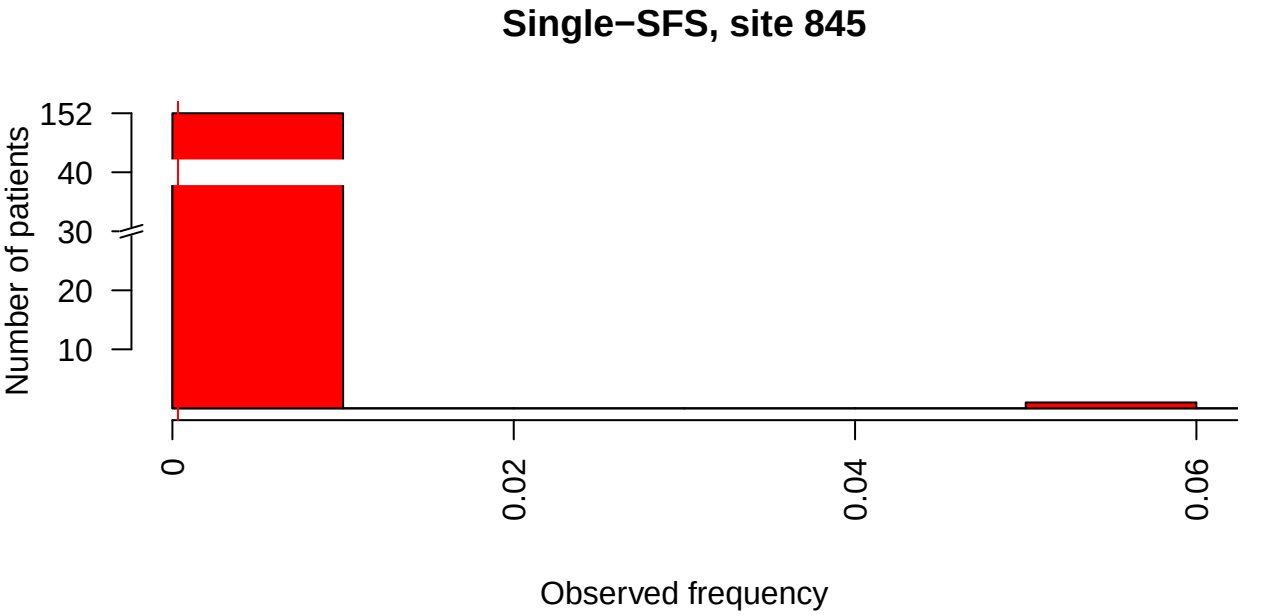

Simulated data, cost 0.009
Number of patients
150
40
30
20
10
pvalue= 0.719
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
Observed frequency

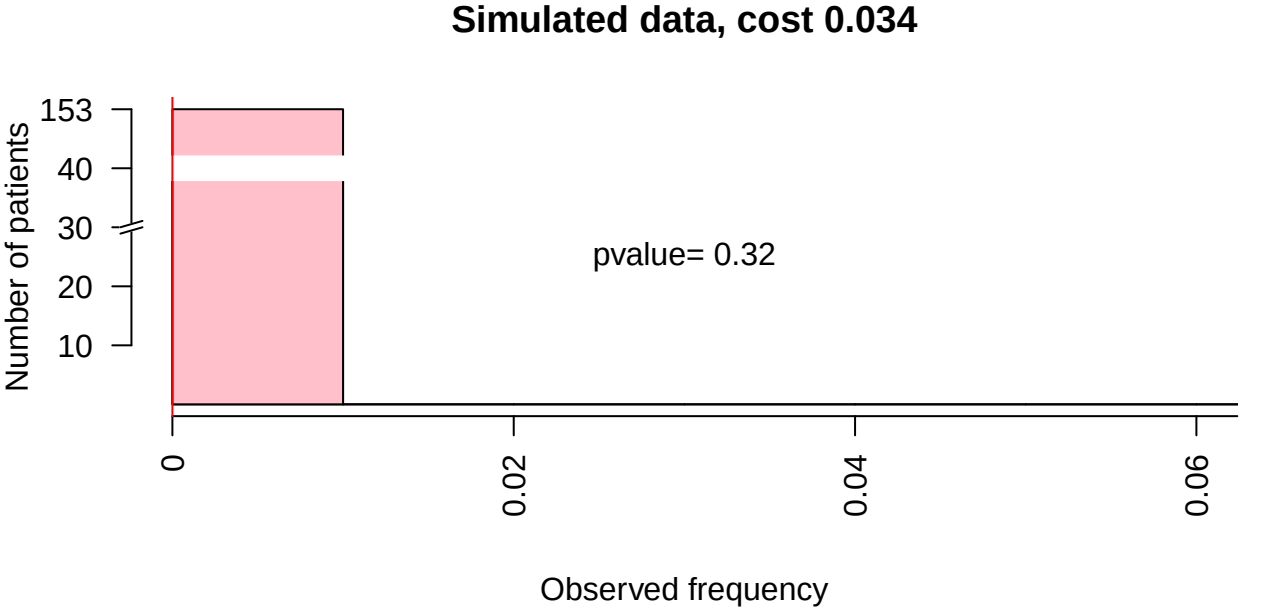

Single−SFS, site 843
Number of patients
141
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
0.24
0.26
Observed frequency

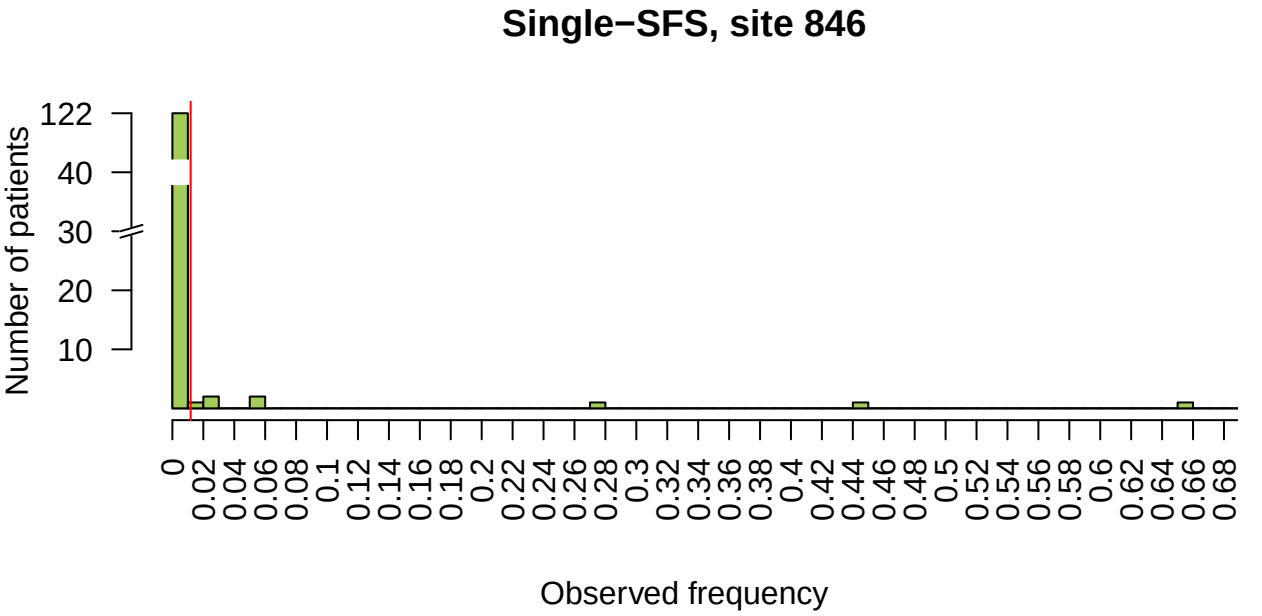

Simulated data, cost 0.0049
Number of patients
136
40
30
20
10
pvalue= 0.124
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
0.24
0.26
Observed frequency

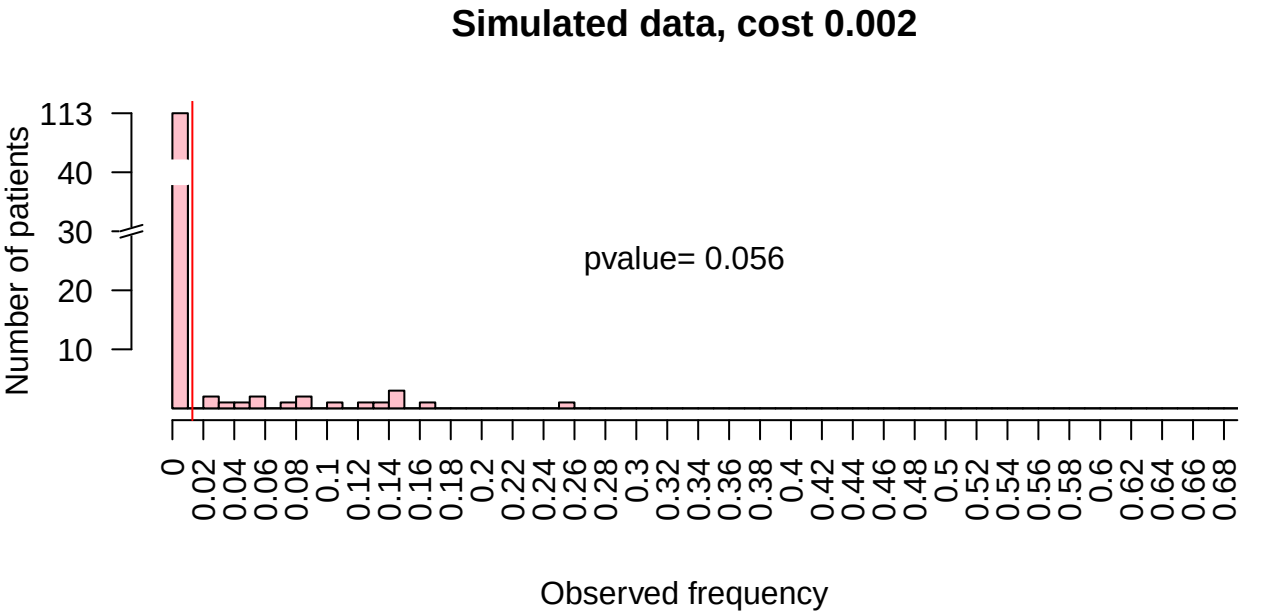

Single−SFS, site 844
Number of patients
153
40
30
20
10
0
0.02
0.04
0.06
0.08
Observed frequency

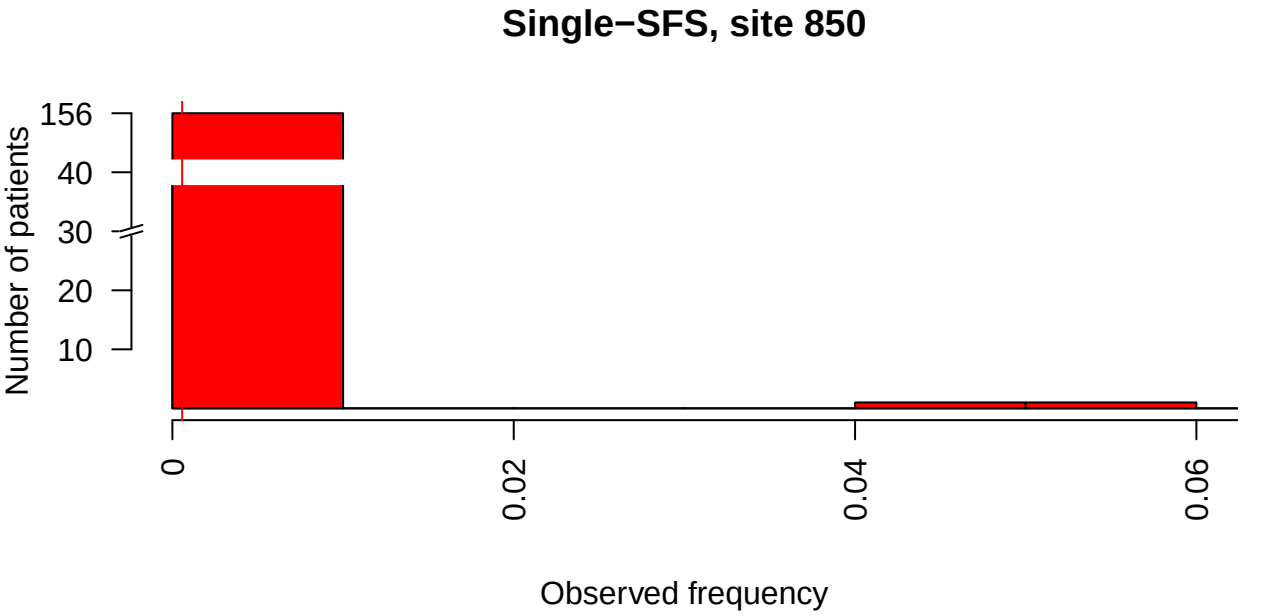

Simulated data, cost 0.0166
Number of patients
153
40
30
20
10
pvalue= 1
0
0.02
0.04
0.06
0.08
Observed frequency

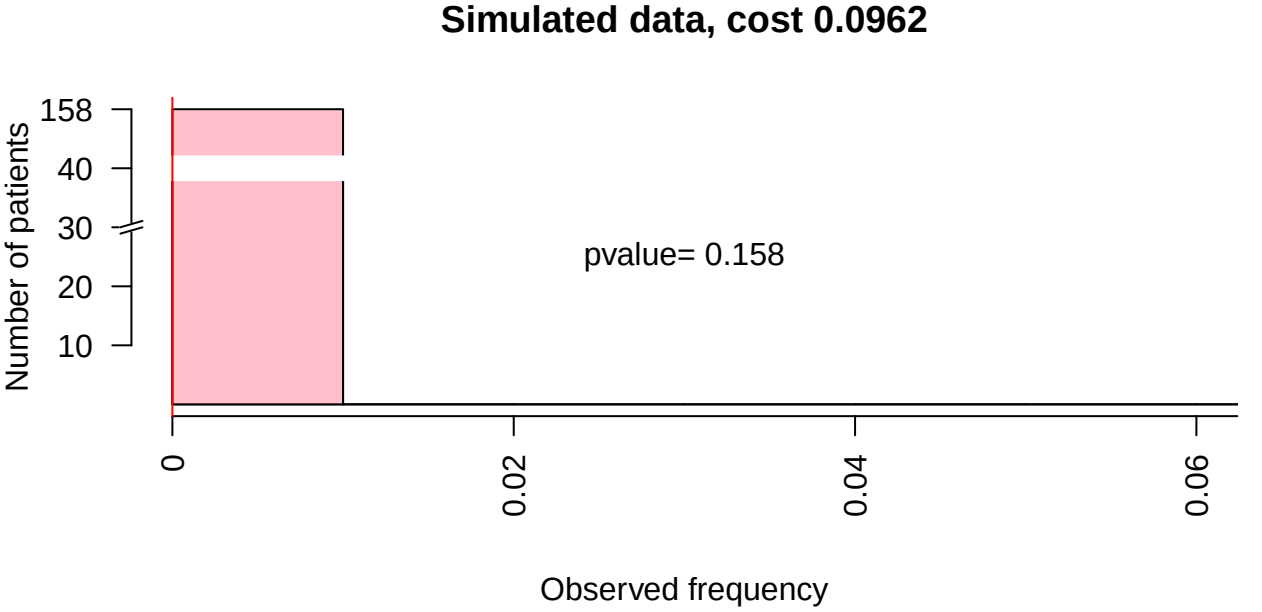

Single−SFS, site 845
Number of patients
152
40
30
20
10
0
0.02
0.04
0.06
Observed frequency

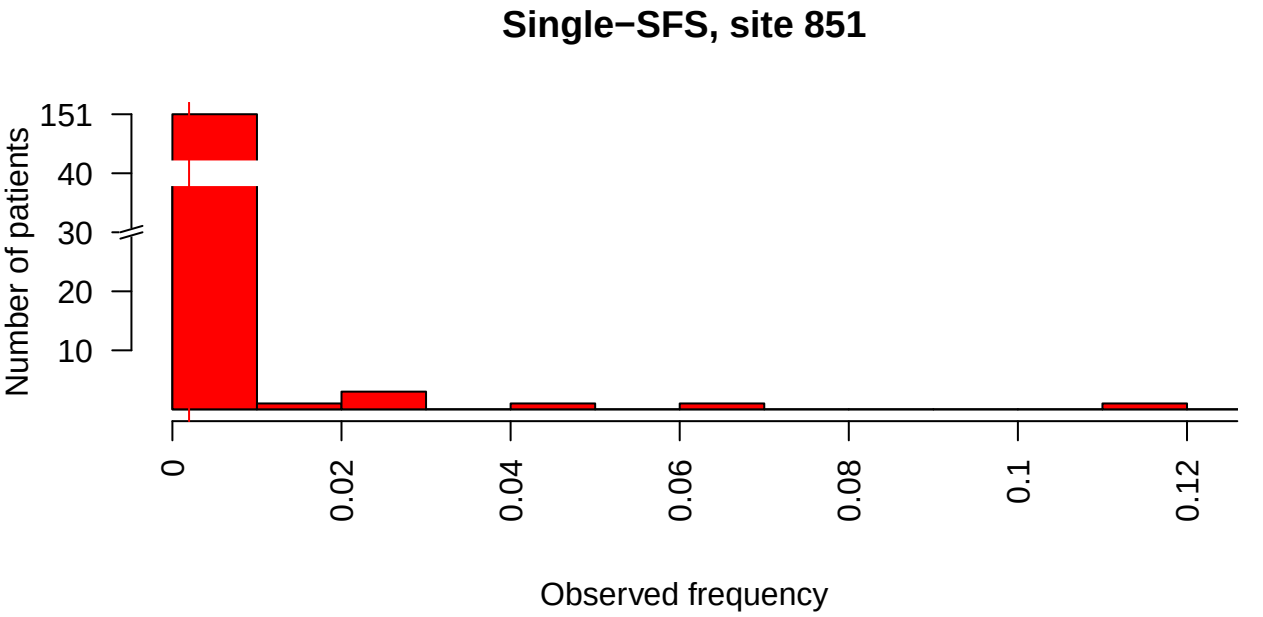

Simulated data, cost 0.034
Number of patients
153
40
30
20
10
pvalue= 0.32
0
0.02
0.04
0.06
Observed frequency

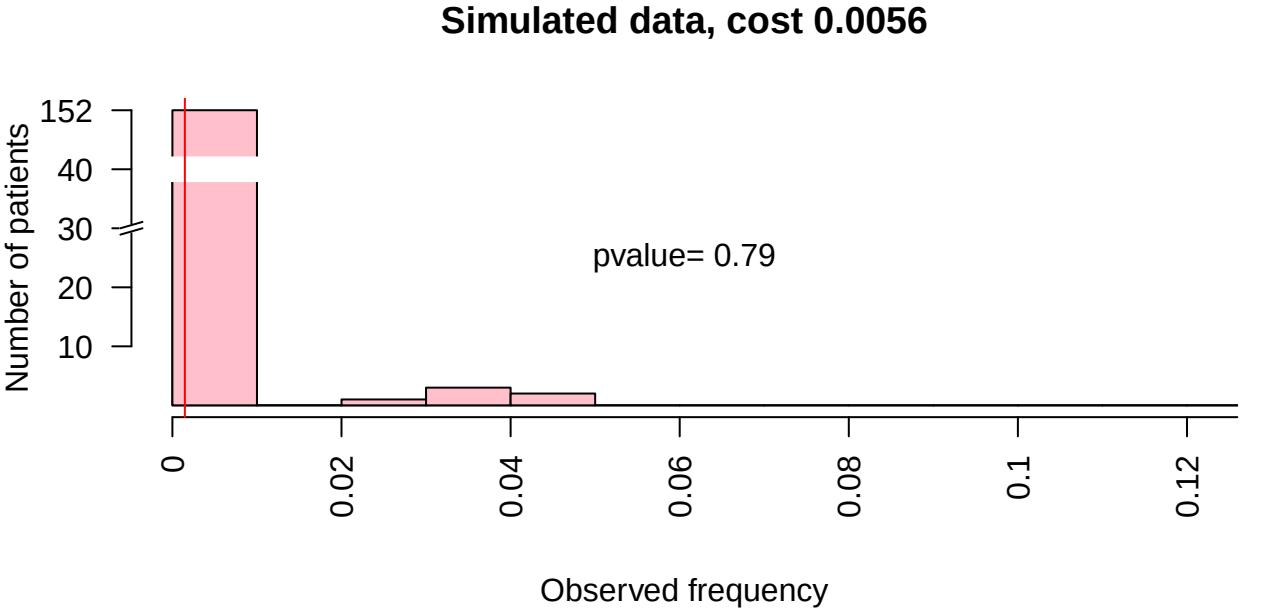

Single−SFS, site 846
Number of patients
122
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
0.24
0.26
0.28
0.3
0.32
0.34
0.36
0.38
0.4
0.42
0.44
0.46
0.48
0.5
0.52
0.54
0.56
0.58
0.6
0.62
0.64
0.66
0.68
Observed frequency

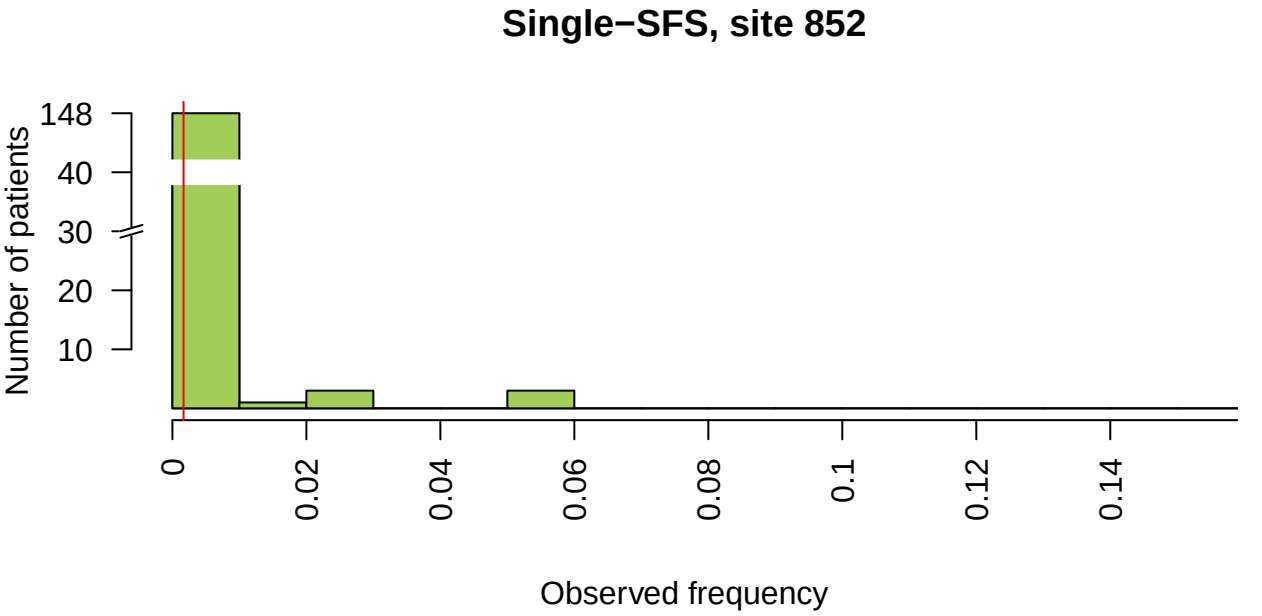

Simulated data, cost 0.002
Number of patients
113
40
30
20
10
pvalue= 0.056
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
0.24
0.26
0.28
0.3
0.32
0.34
0.36
0.38
0.4
0.42
0.44
0.46
0.48
0.5
0.52
0.54
0.56
0.58
0.6
0.62
0.64
0.66
0.68
Observed frequency

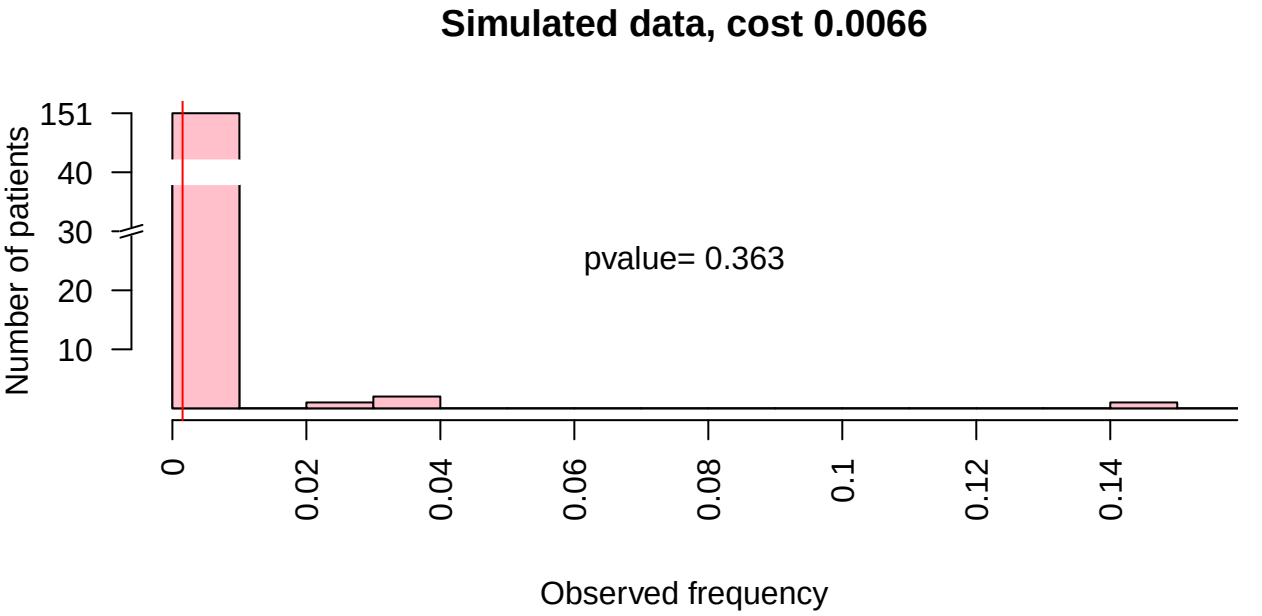

Single−SFS, site 850
Number of patients
156
40
30
20
10
0
0.02
0.04
0.06
Observed frequency

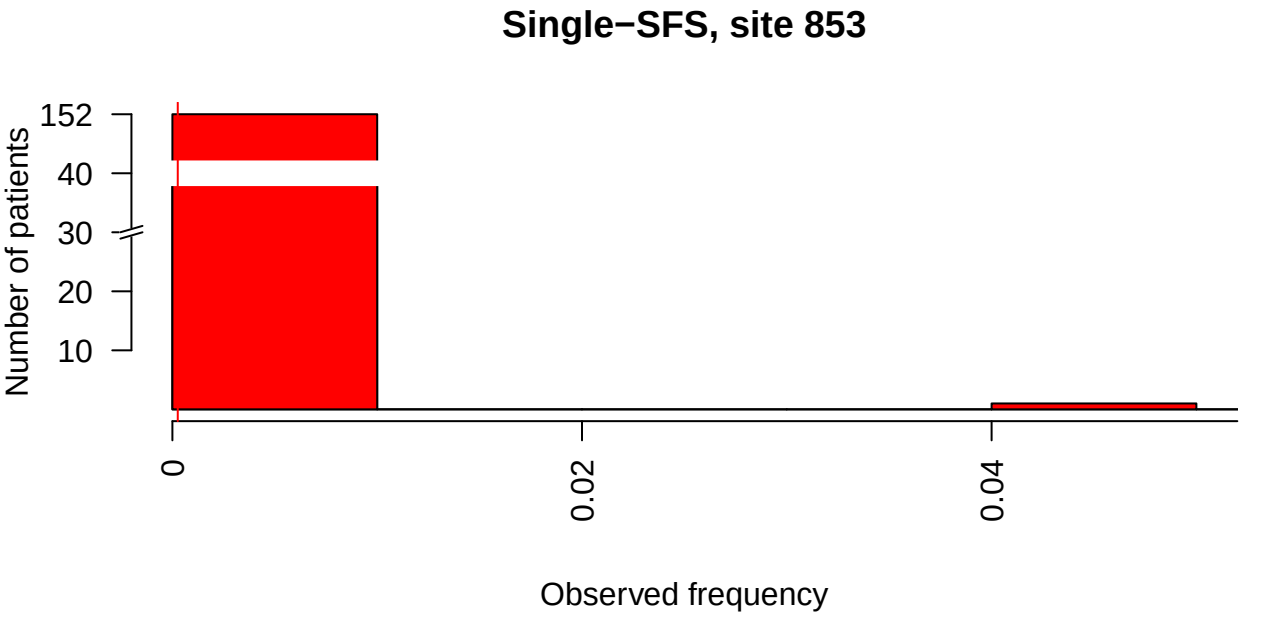

Simulated data, cost 0.0962
Number of patients
158
40
30
20
10
pvalue= 0.158
0
0.02
0.04
0.06
Observed frequency

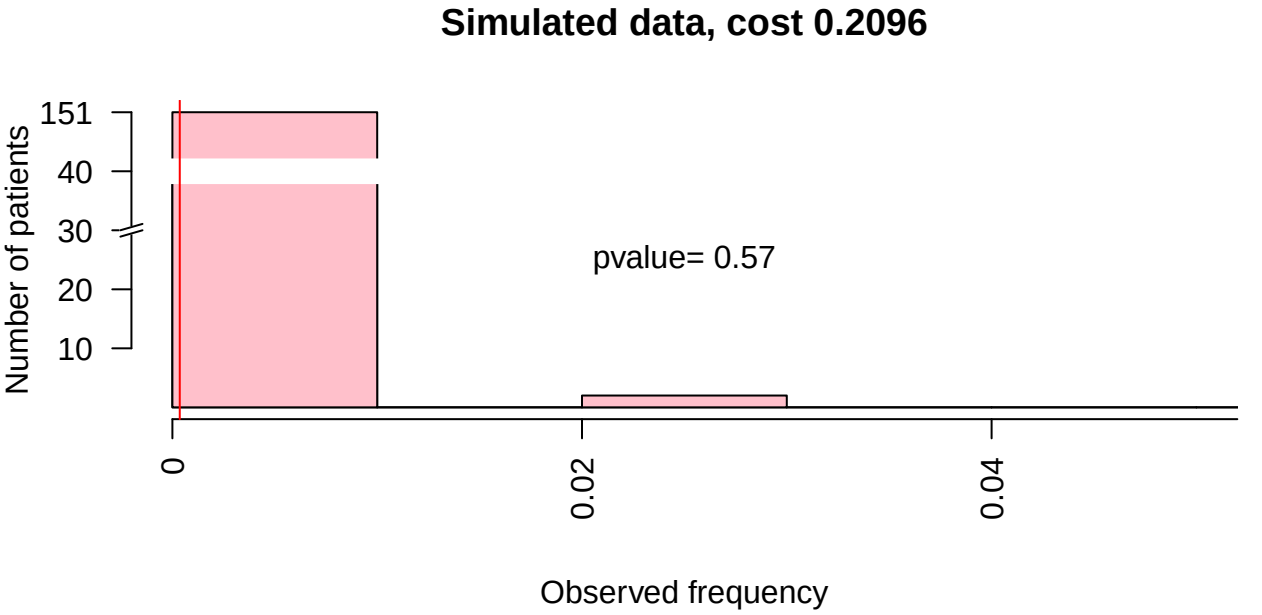

Single−SFS, site 851
Number of patients
151
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
Observed frequency

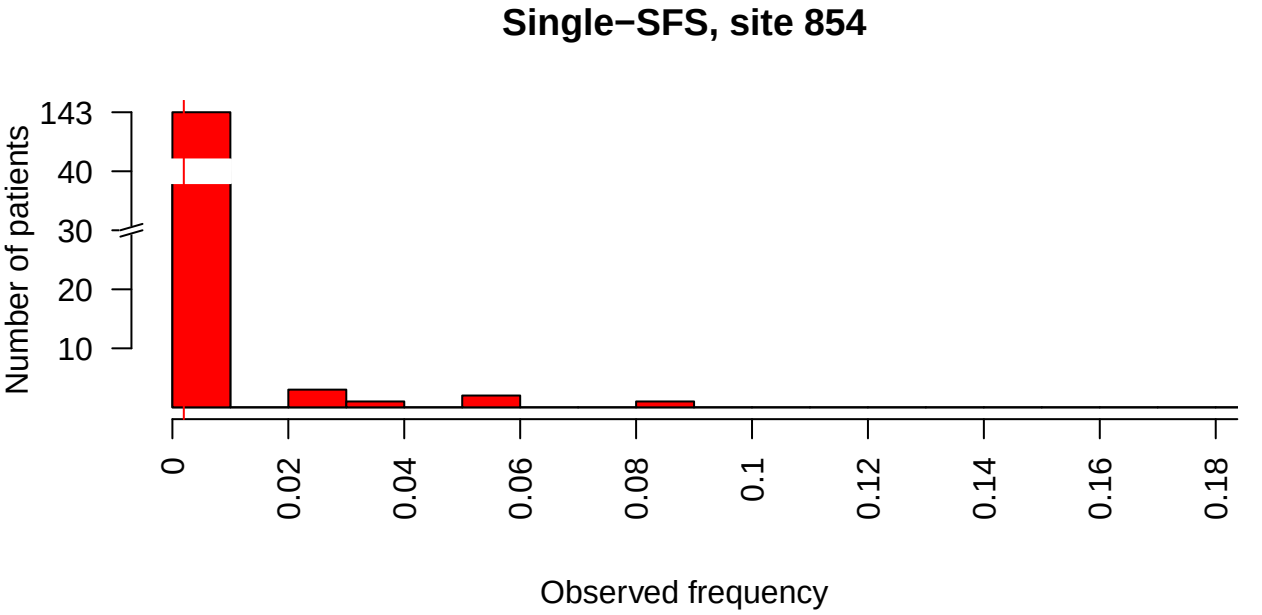

Simulated data, cost 0.0056
Number of patients
152
40
30
20
10
pvalue= 0.79
0
0.02
0.04
0.06
0.08
0.1
0.12
Observed frequency

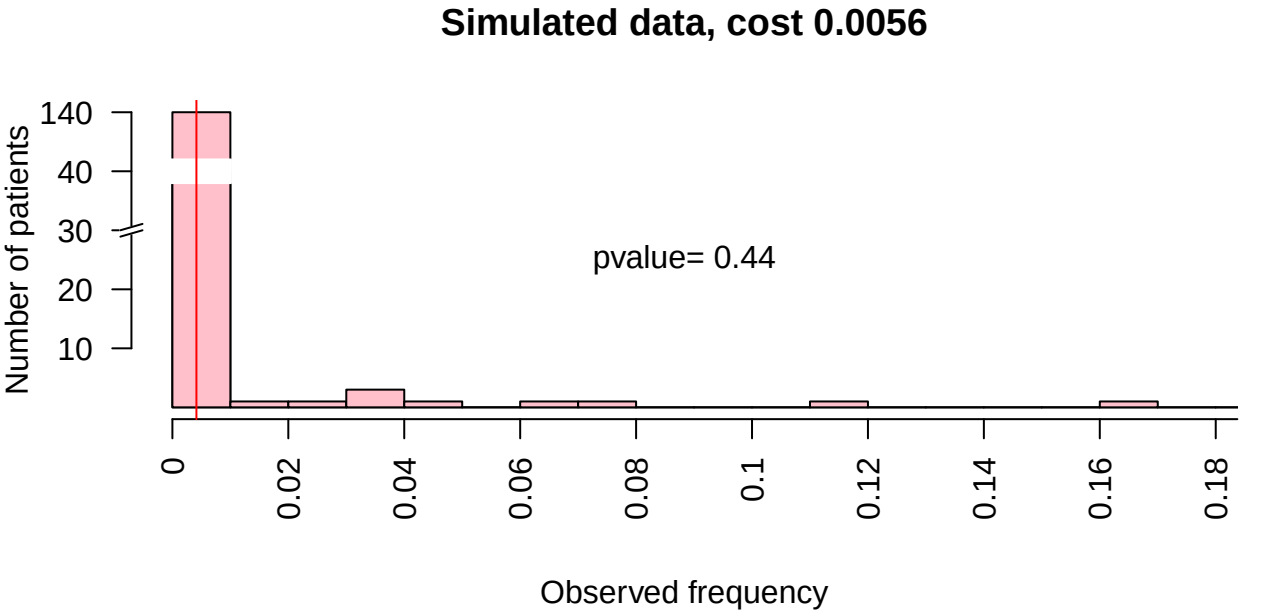

Single−SFS, site 852
Number of patients
148
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
Observed frequency

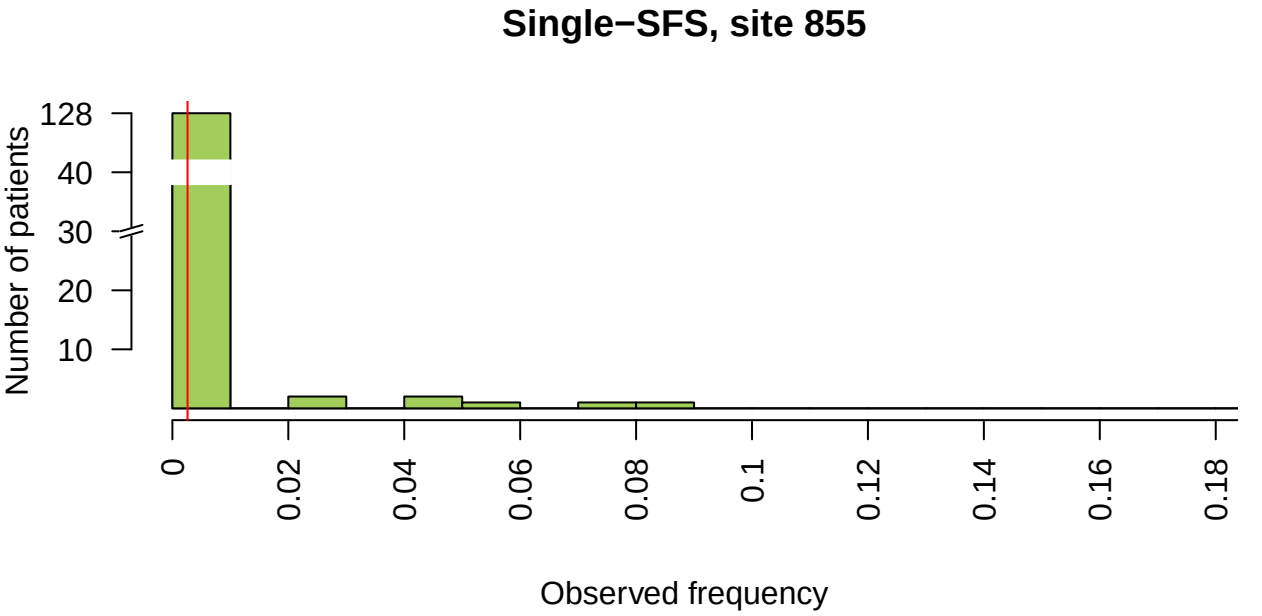

Simulated data, cost 0.0066
Number of patients
151
40
30
20
10
pvalue= 0.363
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
Observed frequency

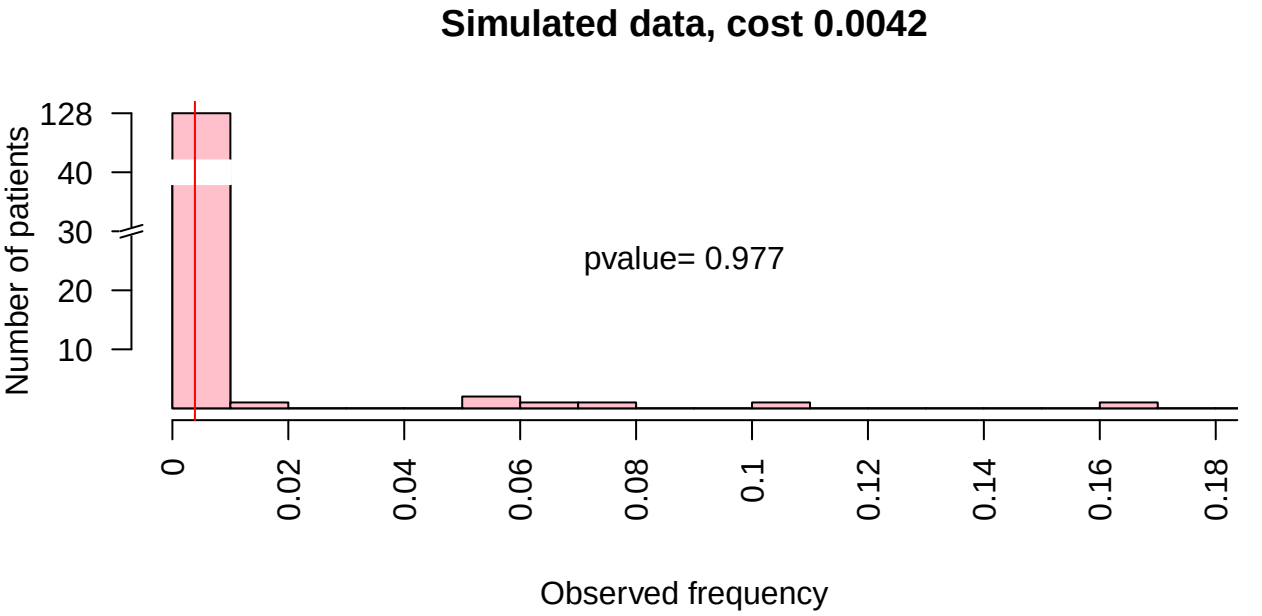

Single−SFS, site 853
Number of patients
152
40
30
20
10
0
0.02
0.04
Observed frequency

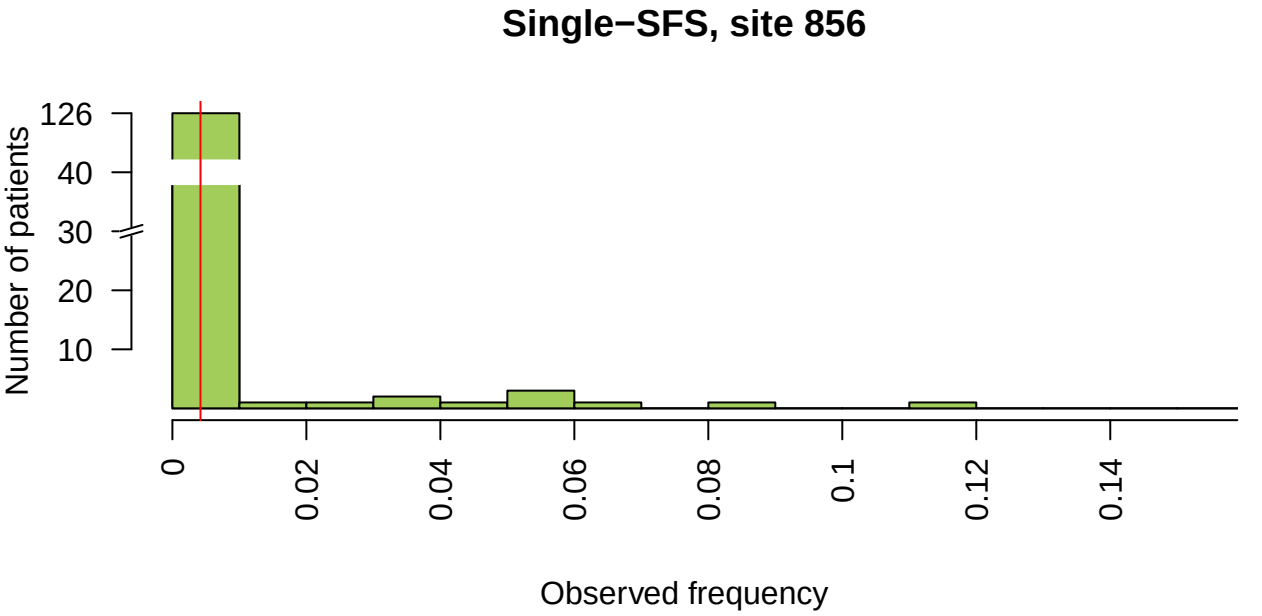

Simulated data, cost 0.2096
Number of patients
151
40
30
20
10
pvalue= 0.57
0
0.02
0.04
Observed frequency

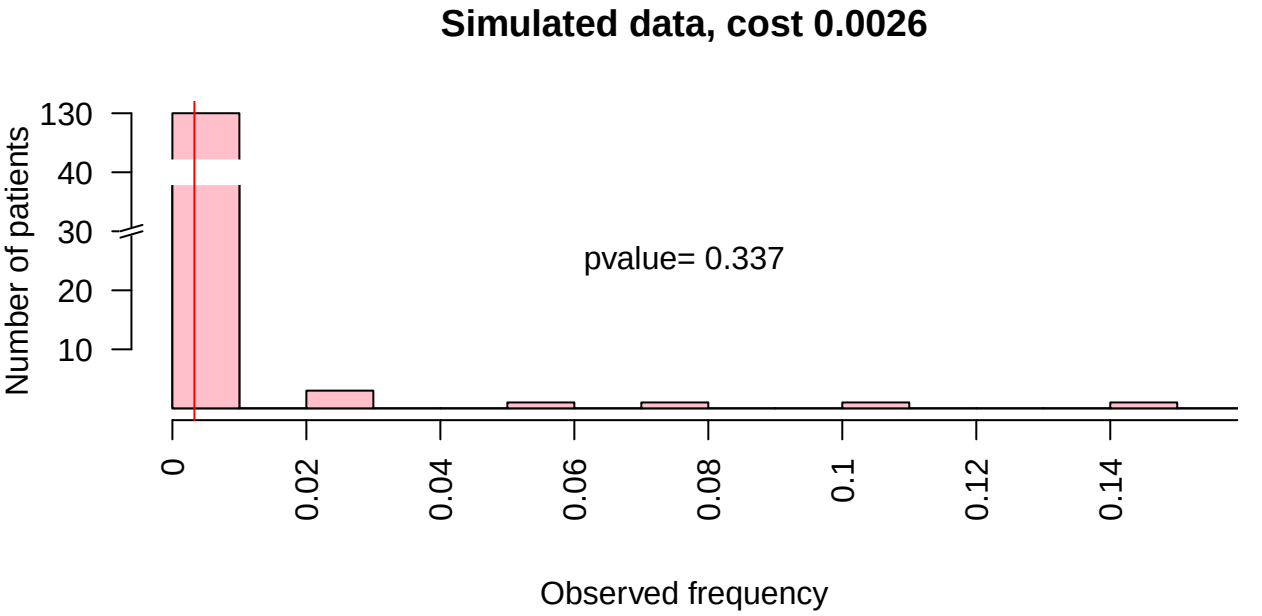

Single−SFS, site 854
Number of patients
143
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
Observed frequency

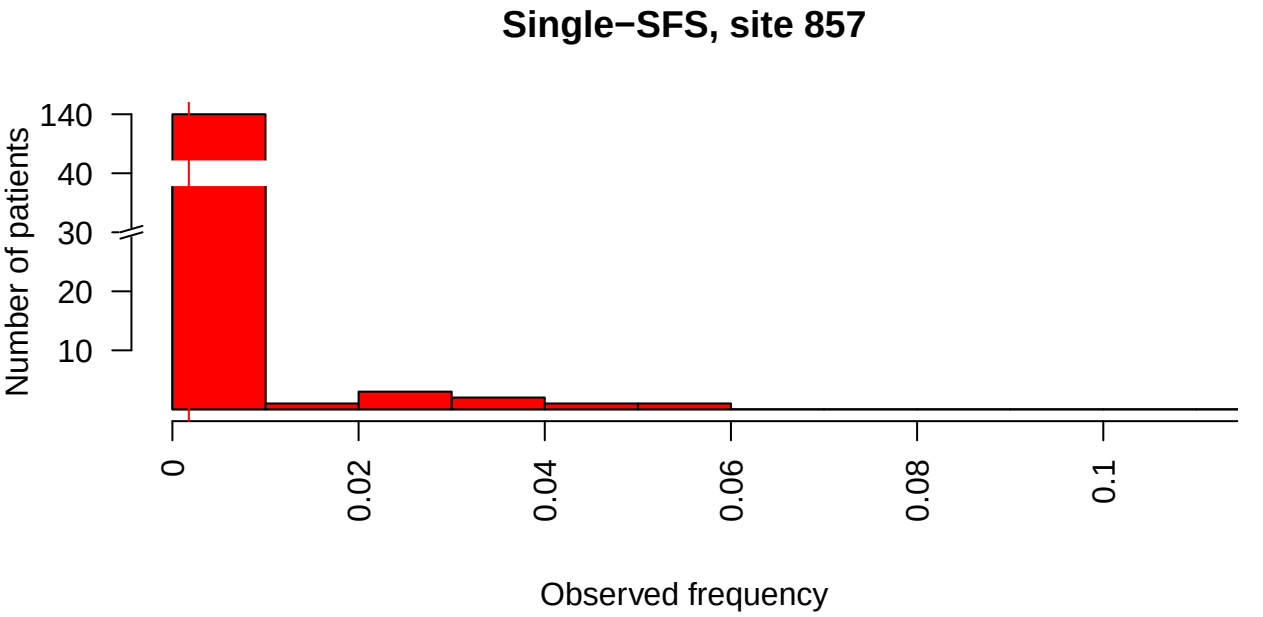

Simulated data, cost 0.0056
Number of patients
140
40
30
20
10
pvalue= 0.44
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
Observed frequency

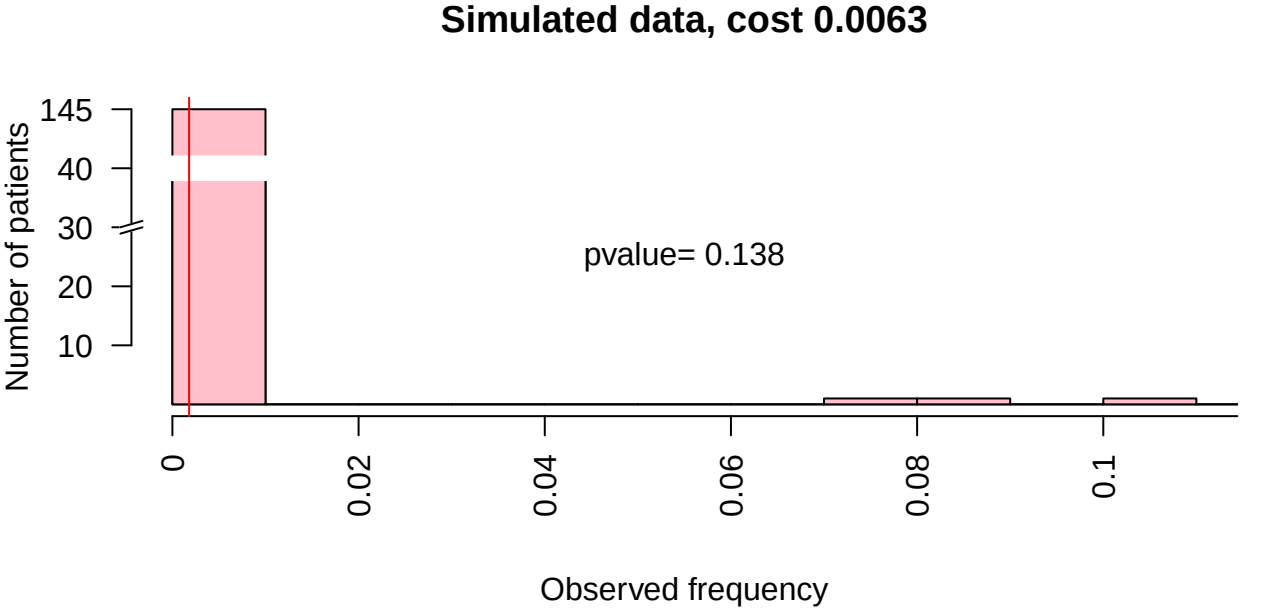

Single−SFS, site 855
Number of patients
128
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
Observed frequency

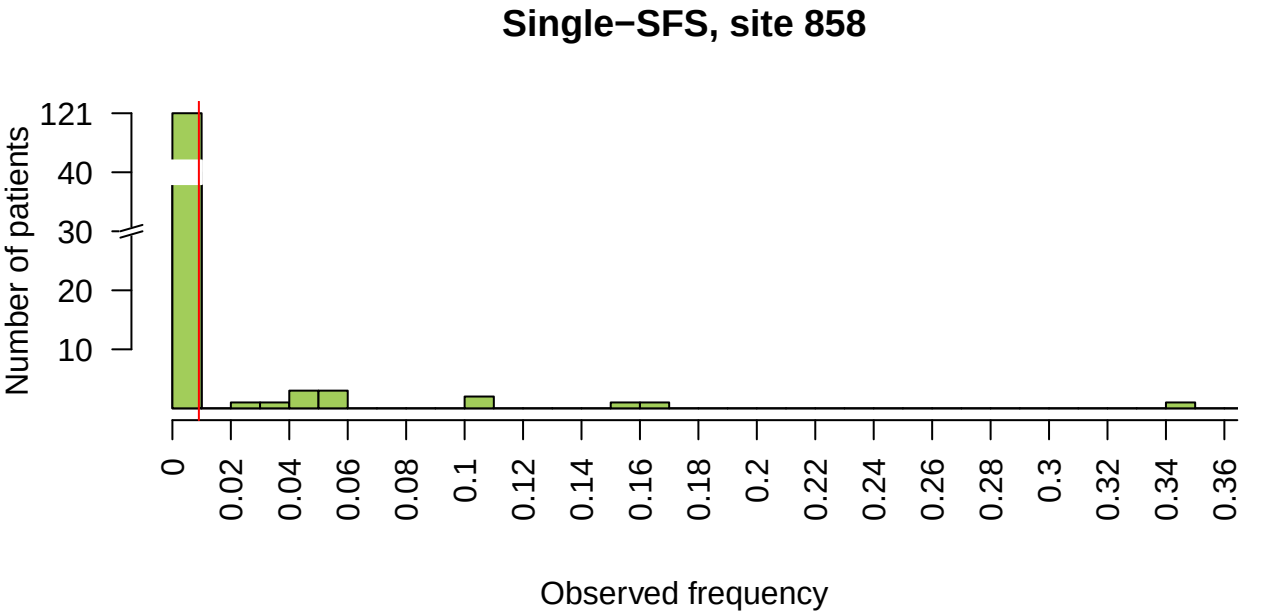

Simulated data, cost 0.0042
Number of patients
128
40
30
20
10
pvalue= 0.977
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
Observed frequency

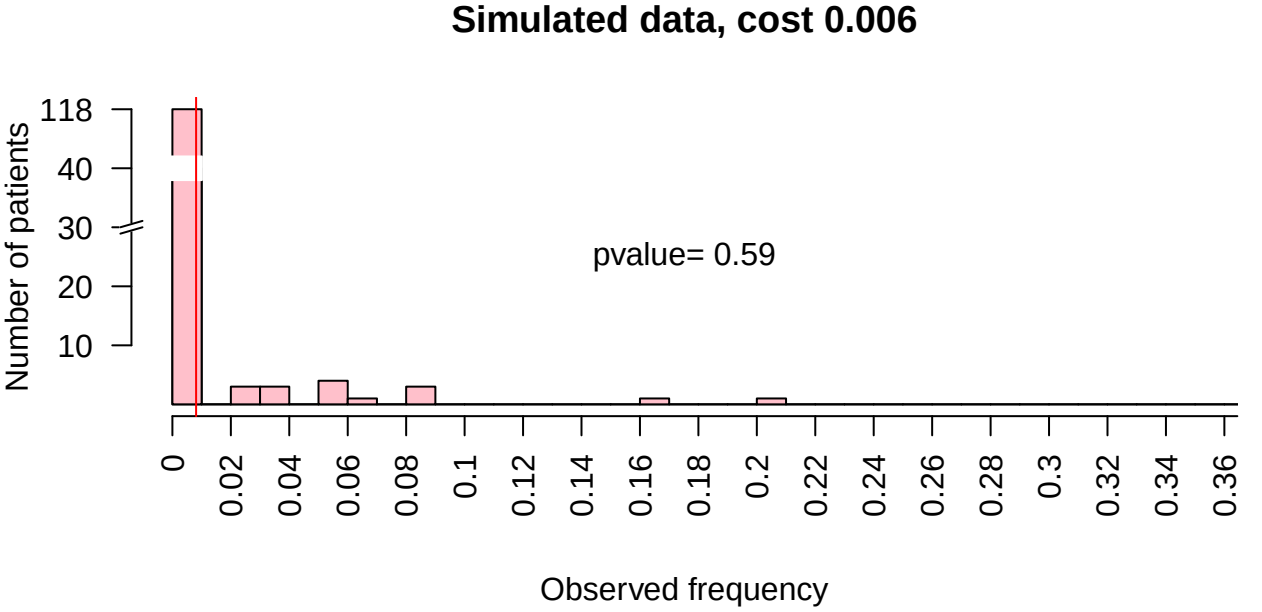

Single−SFS, site 856
Number of patients
126
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
Observed frequency

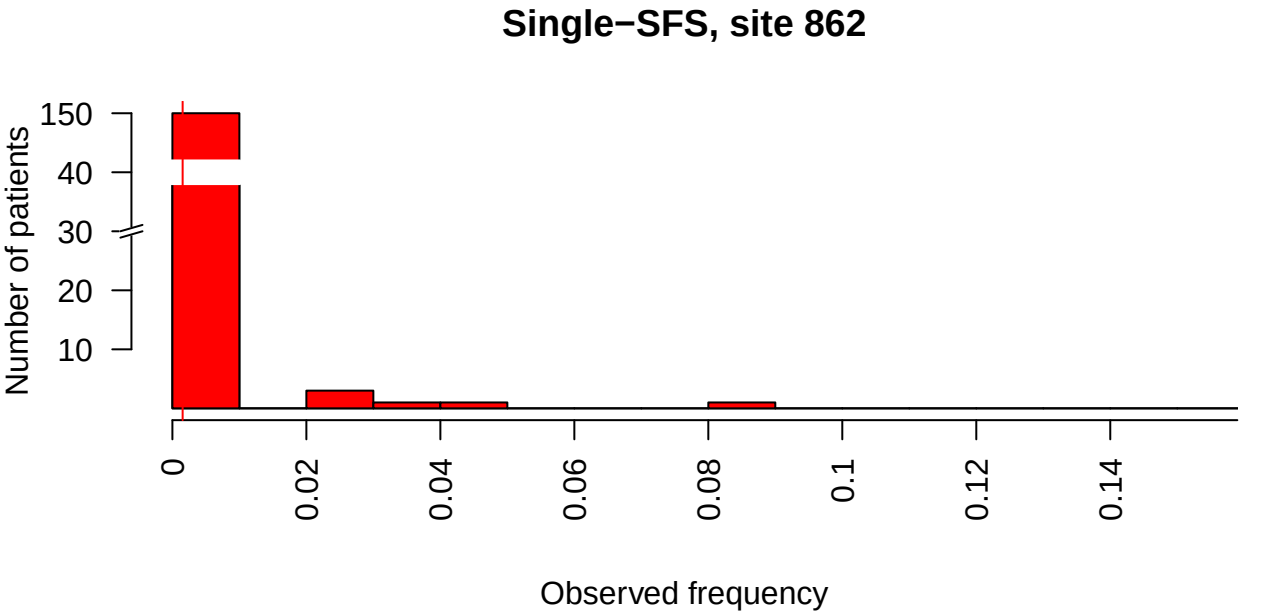

Simulated data, cost 0.0026
Number of patients
130
40
30
20
10
pvalue= 0.337
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
Observed frequency

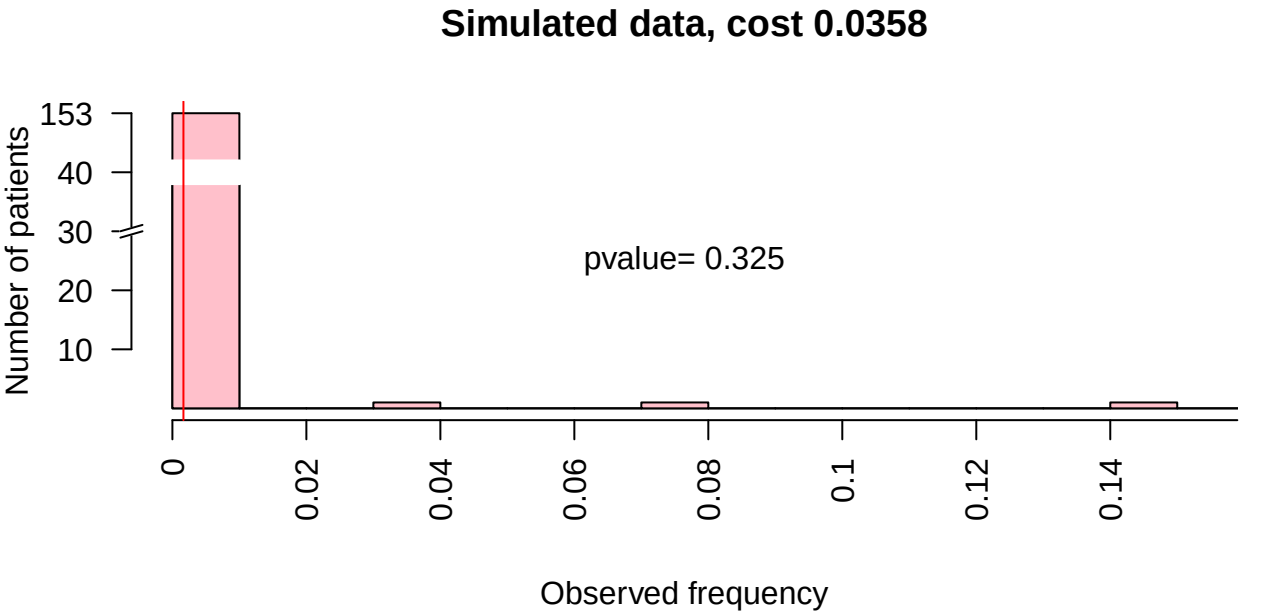

Single−SFS, site 857
Number of patients
140
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
Observed frequency

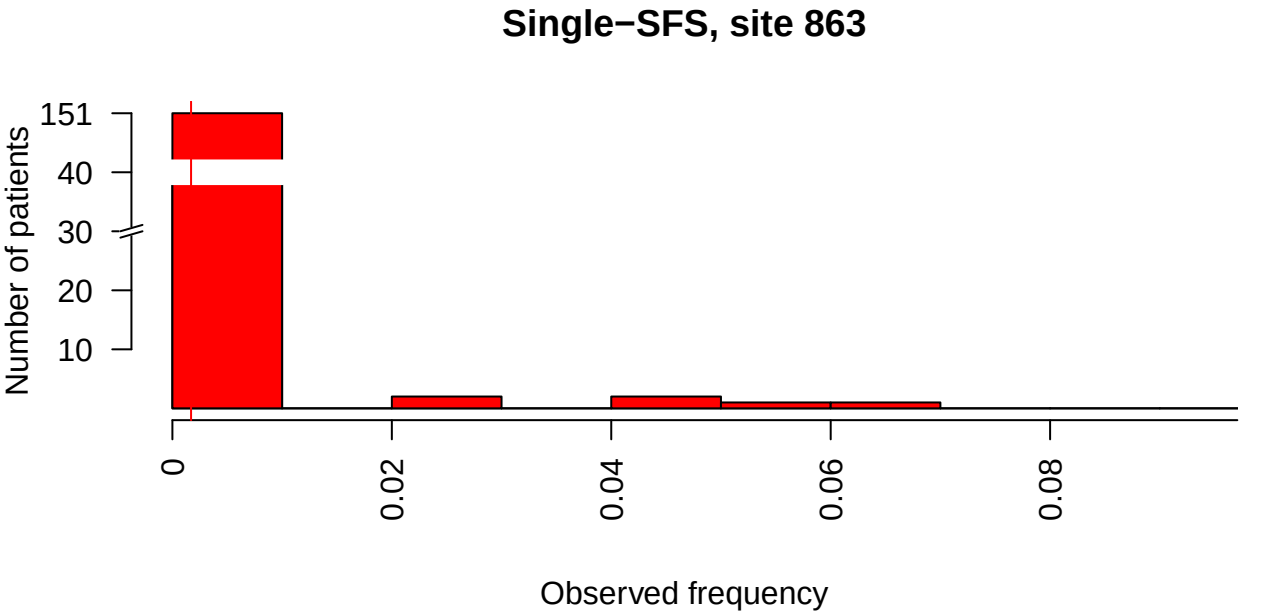

Simulated data, cost 0.0063
Number of patients
145
40
30
20
10
pvalue= 0.138
0
0.02
0.04
0.06
0.08
0.1
Observed frequency

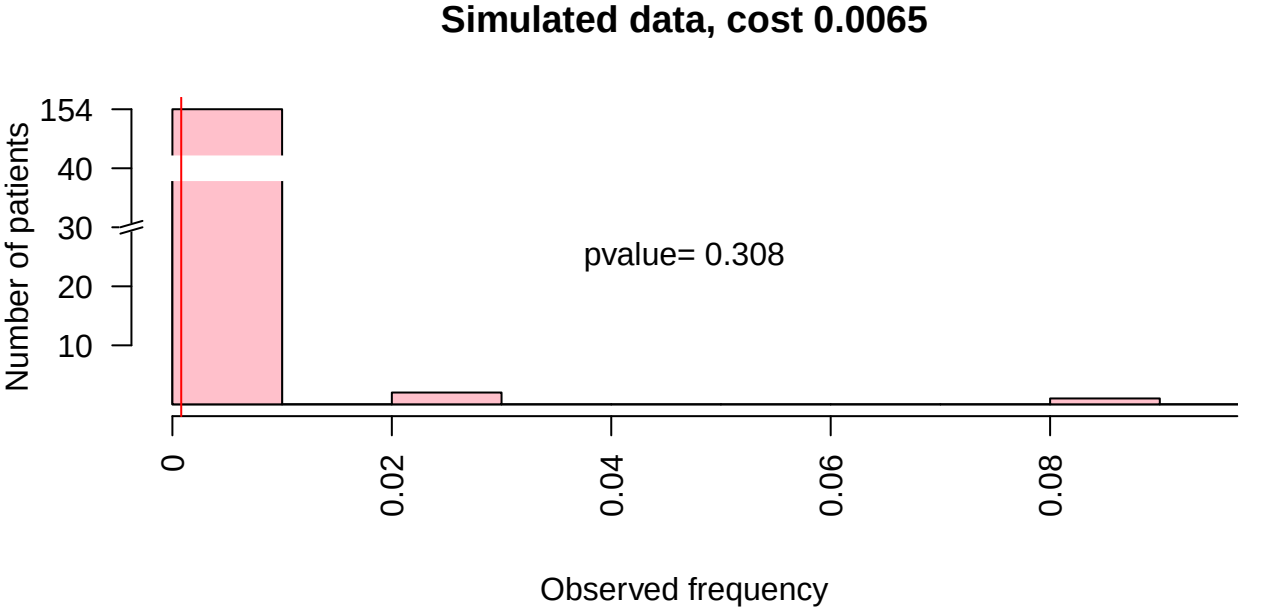

Single−SFS, site 858
Number of patients
121
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
0.24
0.26
0.28
0.3
0.32
0.34
0.36
Observed frequency

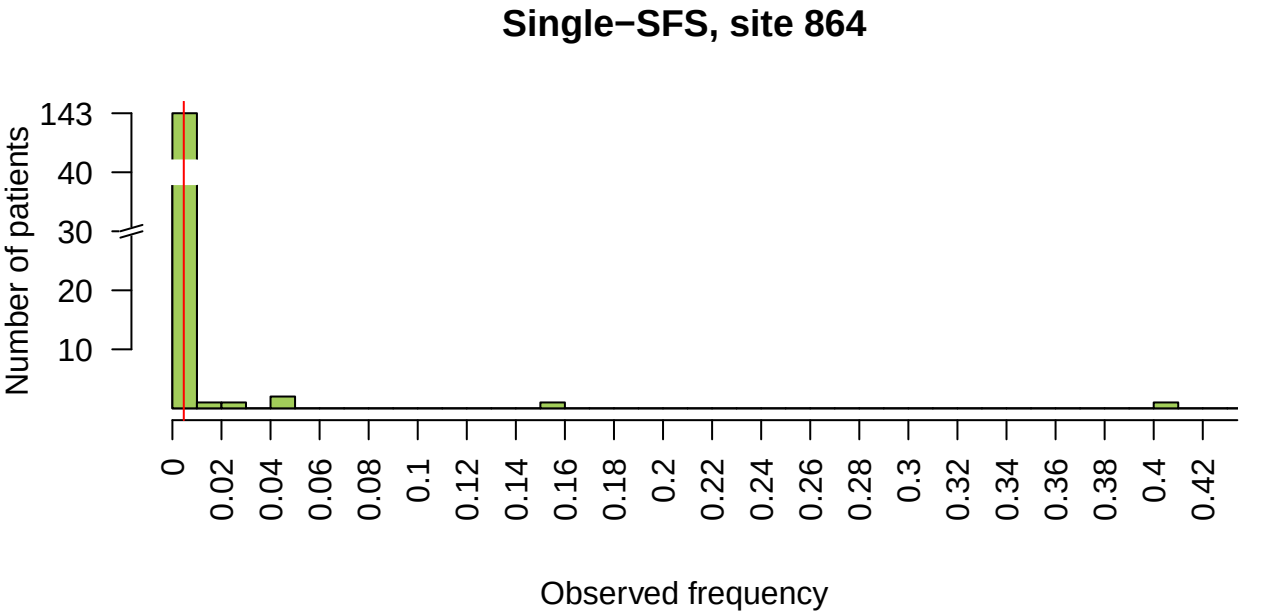

Simulated data, cost 0.006
Number of patients
118
40
30
20
10
pvalue= 0.59
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
0.24
0.26
0.28
0.3
0.32
0.34
0.36
Observed frequency

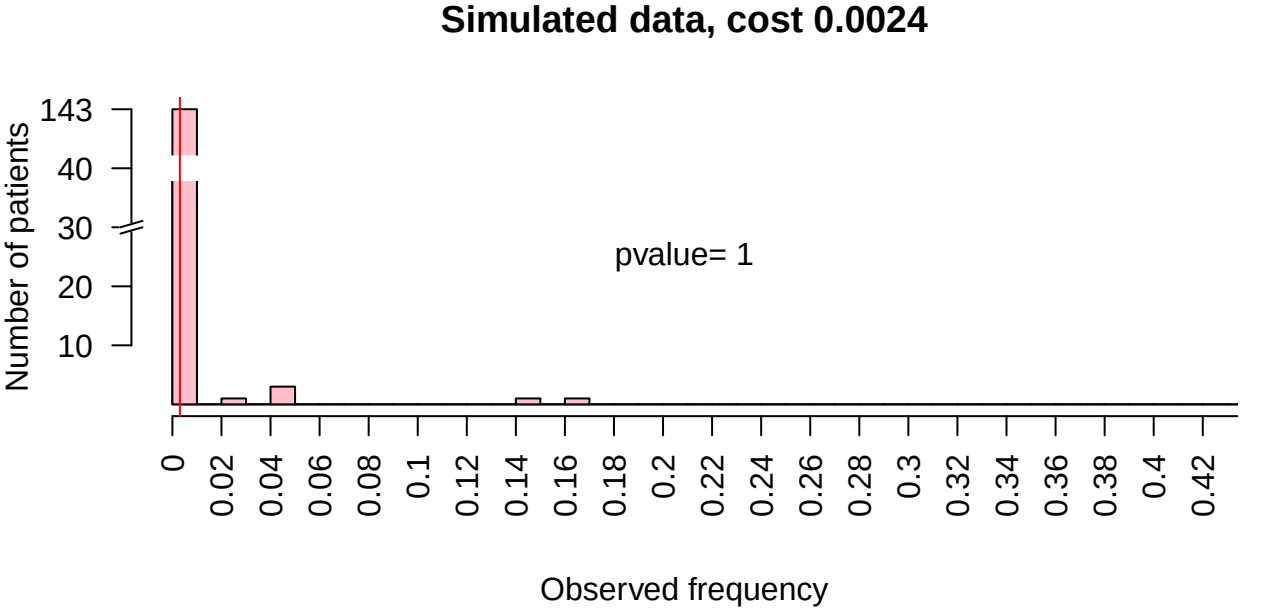

Single−SFS, site 862
Number of patients
150
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
Observed frequency

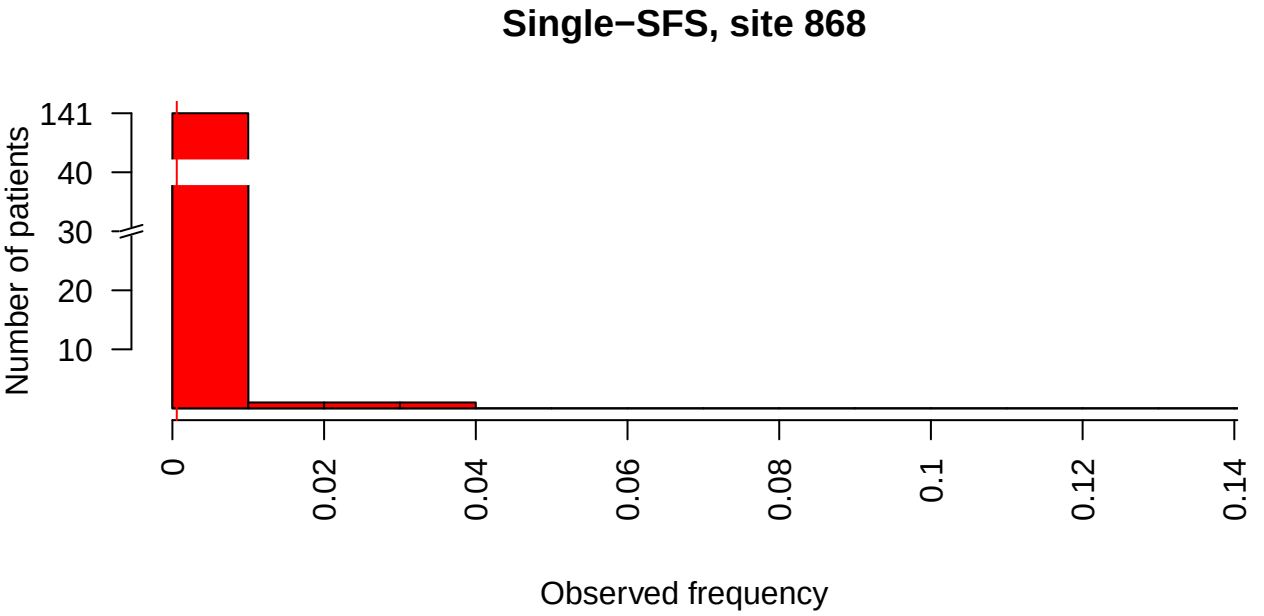

Simulated data, cost 0.0358
Number of patients
153
40
30
20
10
pvalue= 0.325
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
Observed frequency

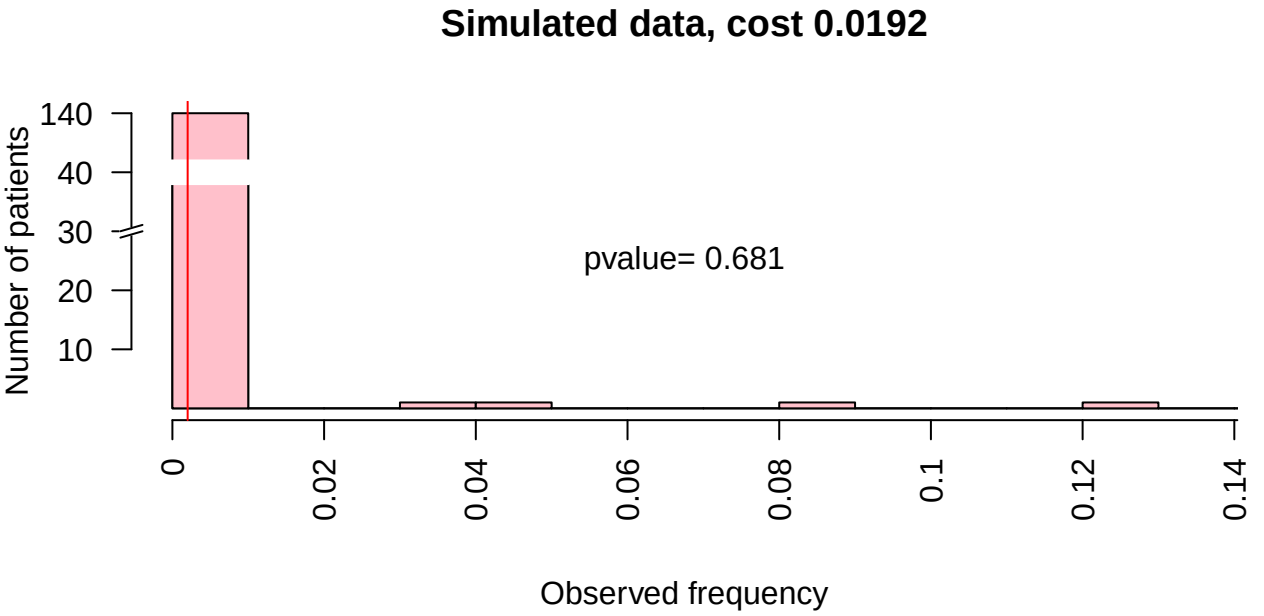

Single−SFS, site 863
Number of patients
151
40
30
20
10
0
0.02
0.04
0.06
0.08
Observed frequency

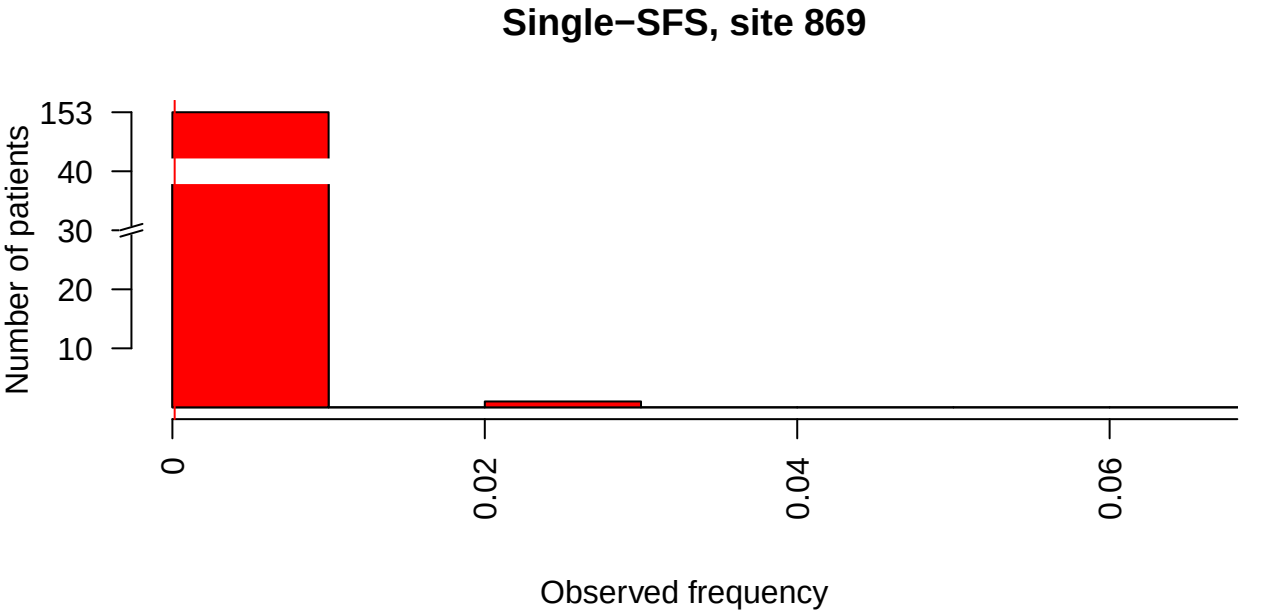

Simulated data, cost 0.0065
Number of patients
154
40
30
20
10
pvalue= 0.308
0
0.02
0.04
0.06
0.08
Observed frequency

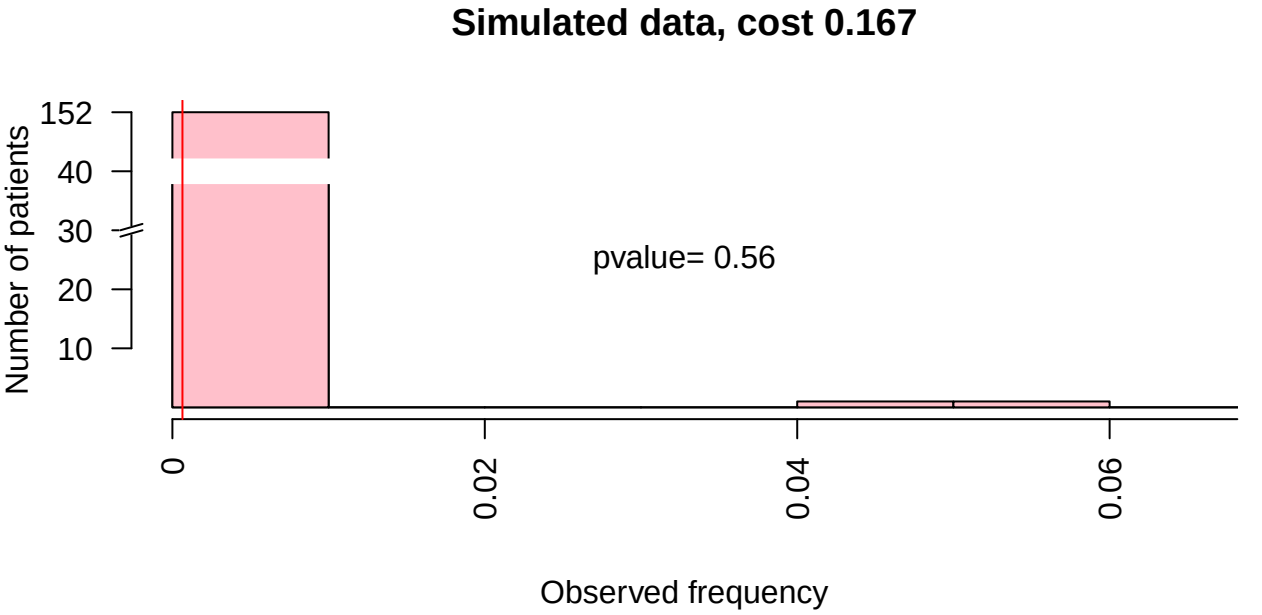

Single−SFS, site 864
Number of patients
143
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
0.24
0.26
0.28
0.3
0.32
0.34
0.36
0.38
0.4
0.42
Observed frequency

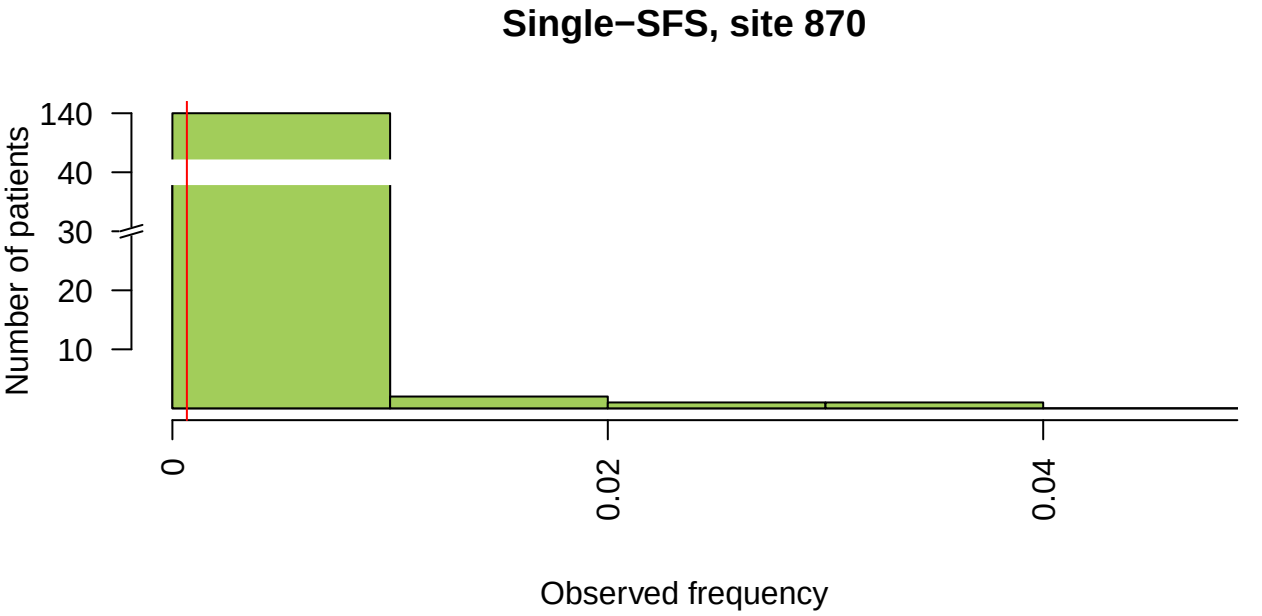

Simulated data, cost 0.0024
Number of patients
143
40
30
20
10
pvalue= 1
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
0.24
0.26
0.28
0.3
0.32
0.34
0.36
0.38
0.4
0.42
Observed frequency

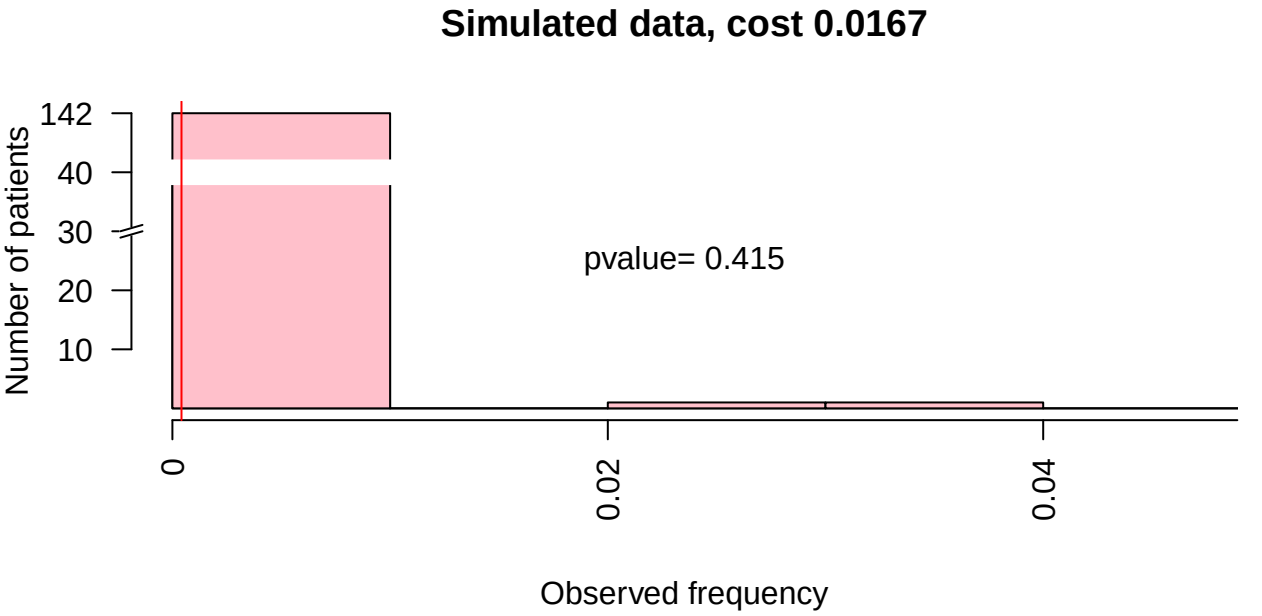

Single−SFS, site 868
Number of patients
141
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
Observed frequency

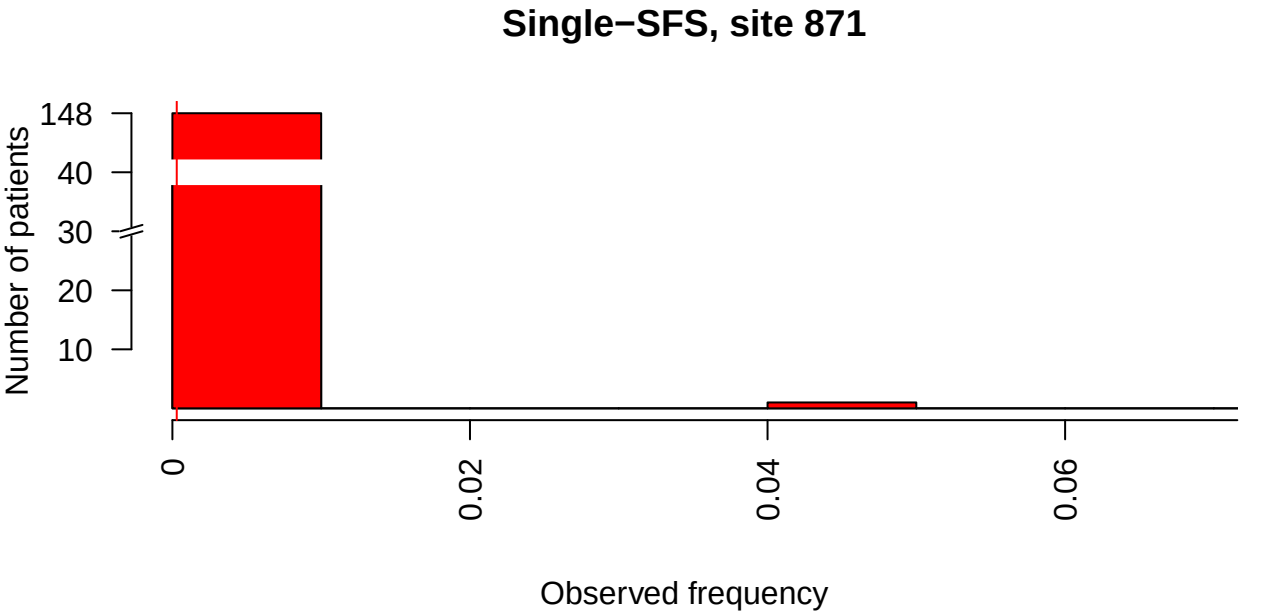

Simulated data, cost 0.0192
Number of patients
140
40
30
20
10
pvalue= 0.681
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
Observed frequency

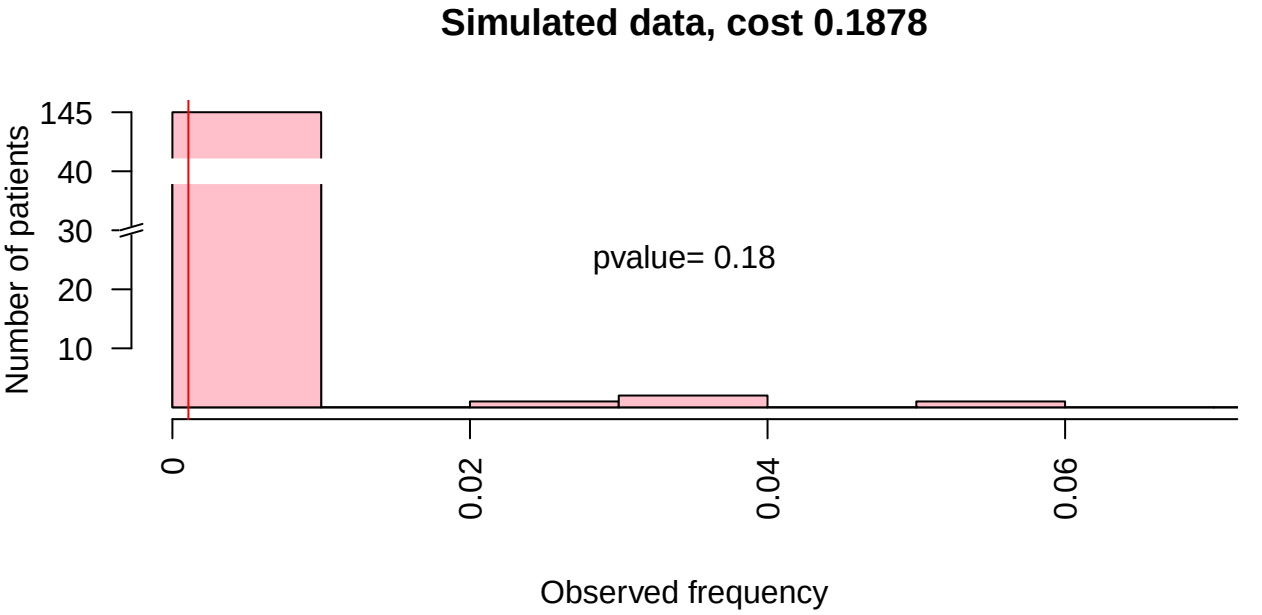

Single−SFS, site 869
Number of patients
153
40
30
20
10
0
0.02
0.04
0.06
Observed frequency

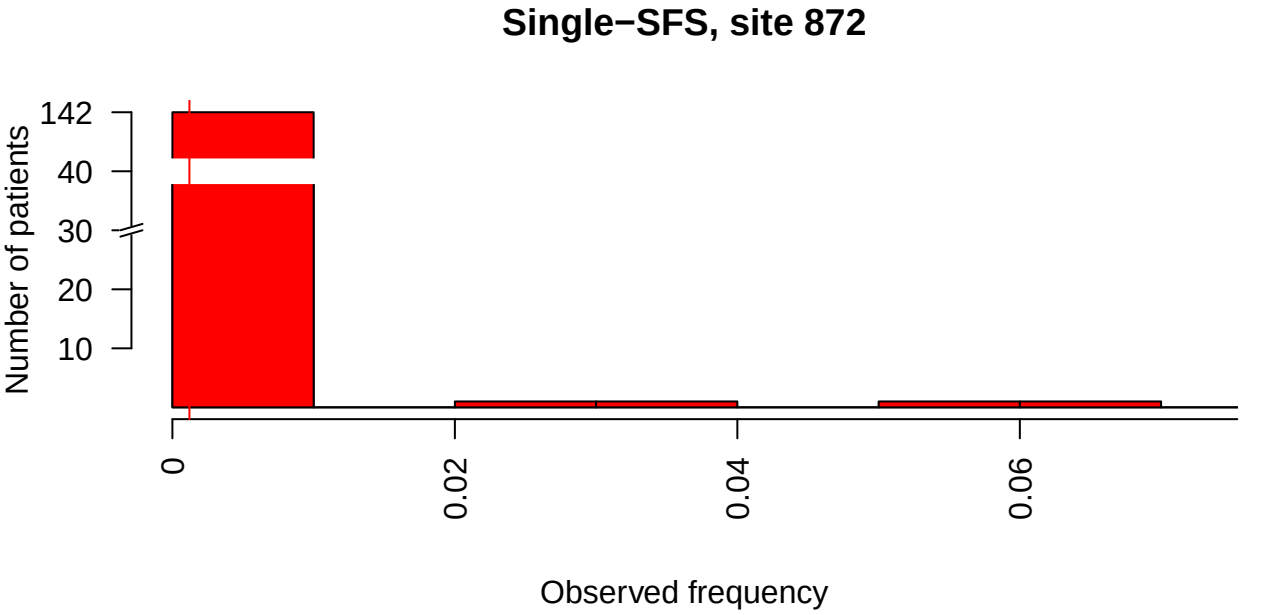

Simulated data, cost 0.167
Number of patients
152
40
30
20
10
pvalue= 0.56
0
0.02
0.04
0.06
Observed frequency

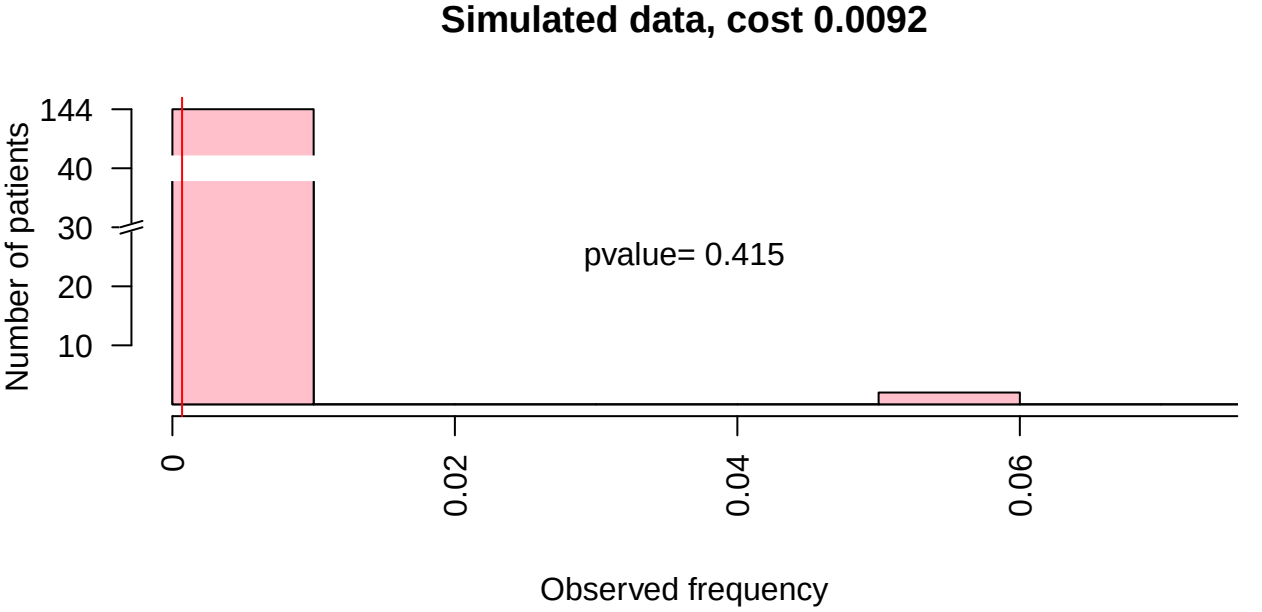

Single−SFS, site 870
Number of patients
140
40
30
20
10
0
0.02
0.04
Observed frequency

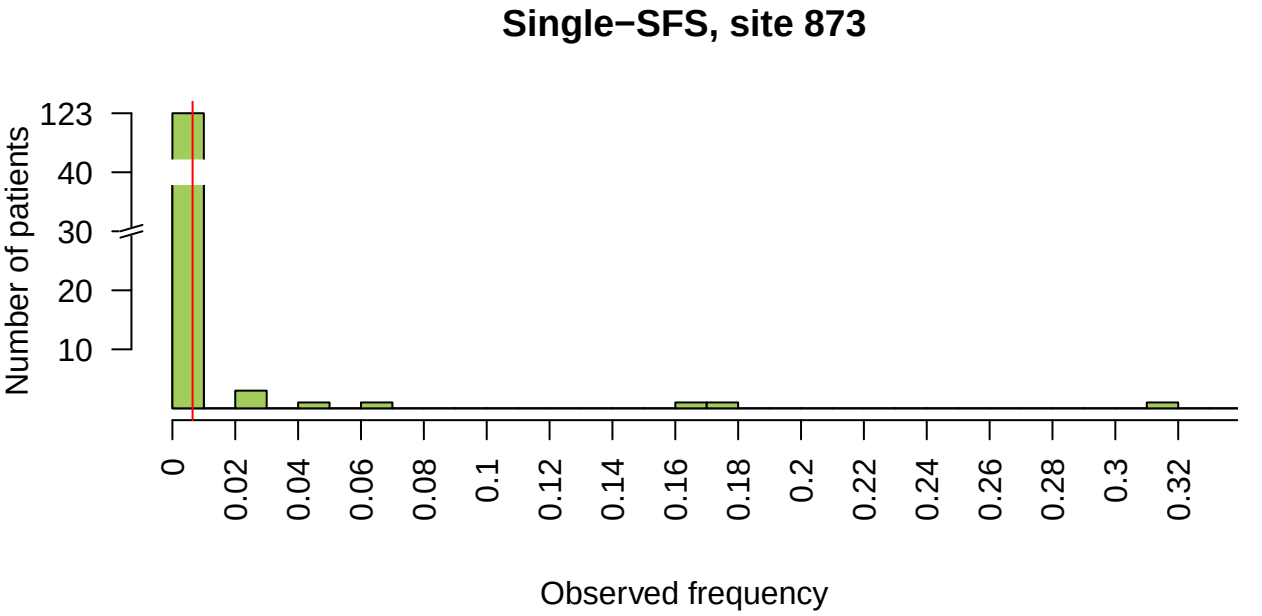

Simulated data, cost 0.0167
Number of patients
142
40
30
20
10
pvalue= 0.415
0
0.02
0.04
Observed frequency

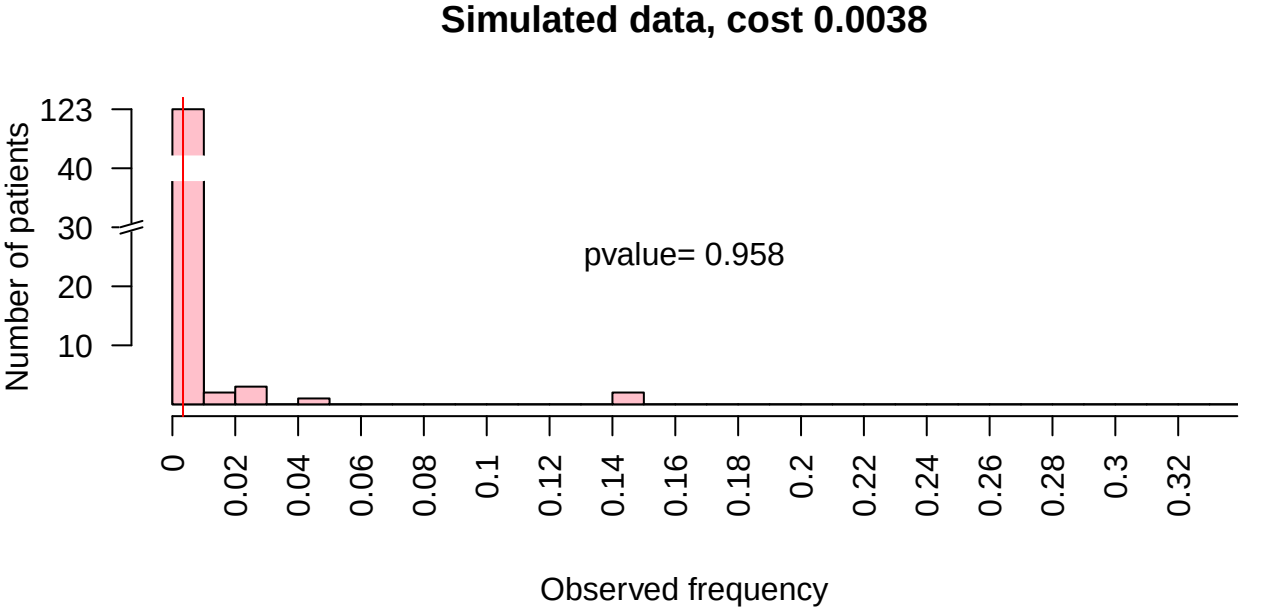

Single−SFS, site 871
Number of patients
148
40
30
20
10
0
0.02
0.04
0.06
Observed frequency

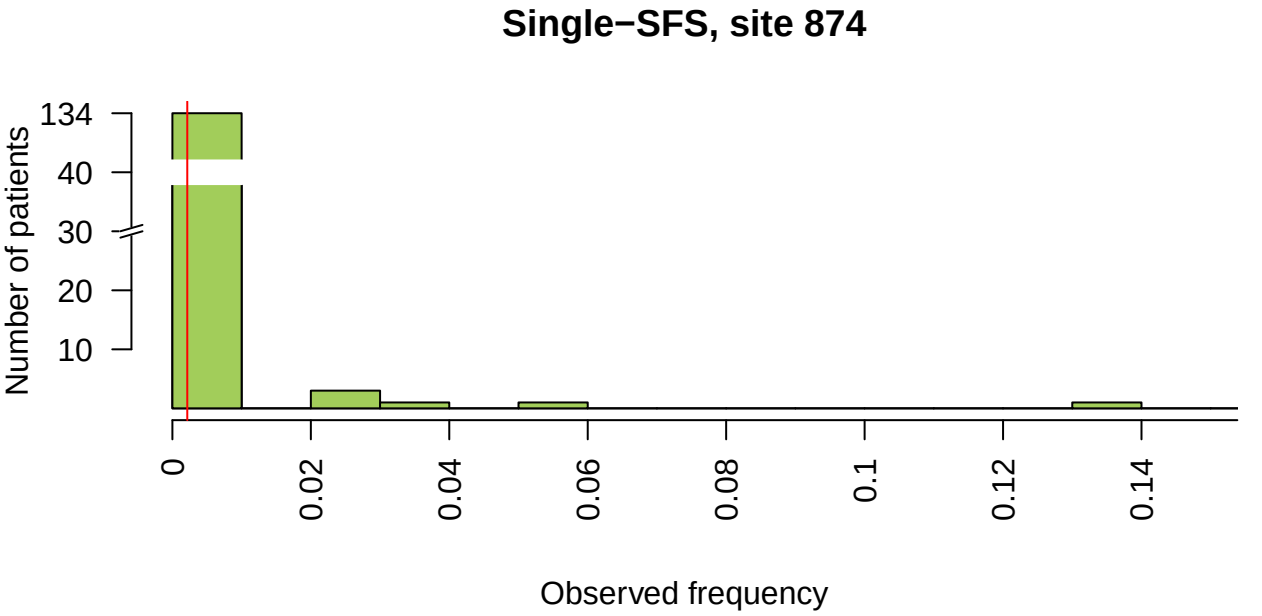

Simulated data, cost 0.1878
Number of patients
145
40
30
20
10
pvalue= 0.18
0
0.02
0.04
0.06
Observed frequency

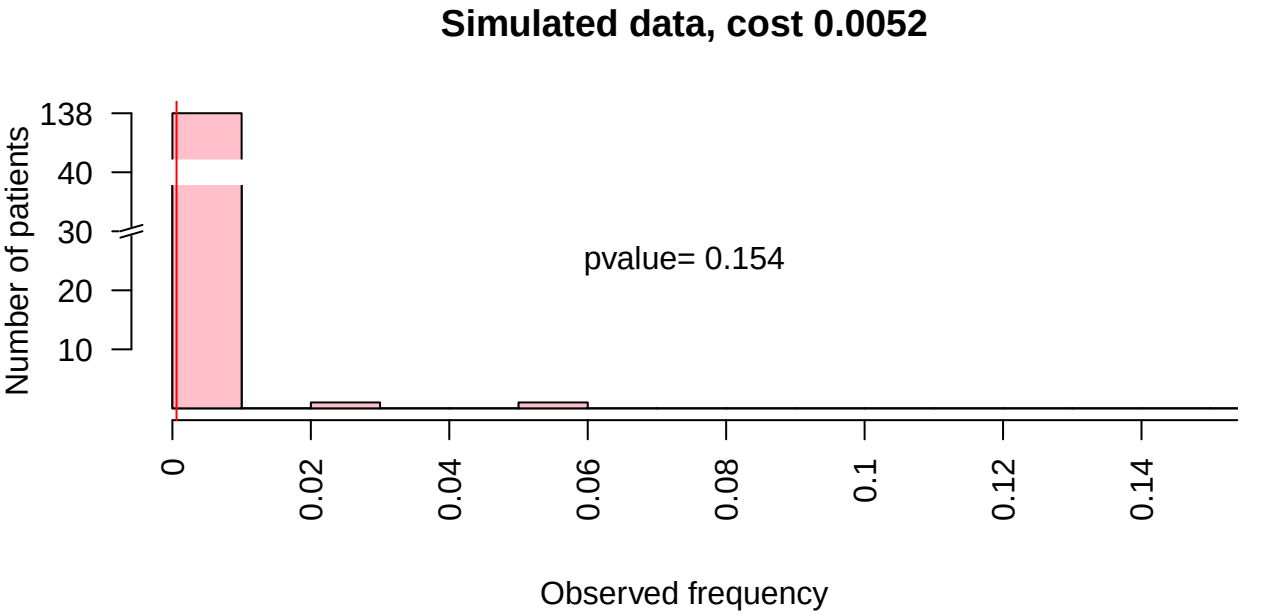

Single−SFS, site 872
Number of patients
142
40
30
20
10
0
0.02
0.04
0.06
Observed frequency

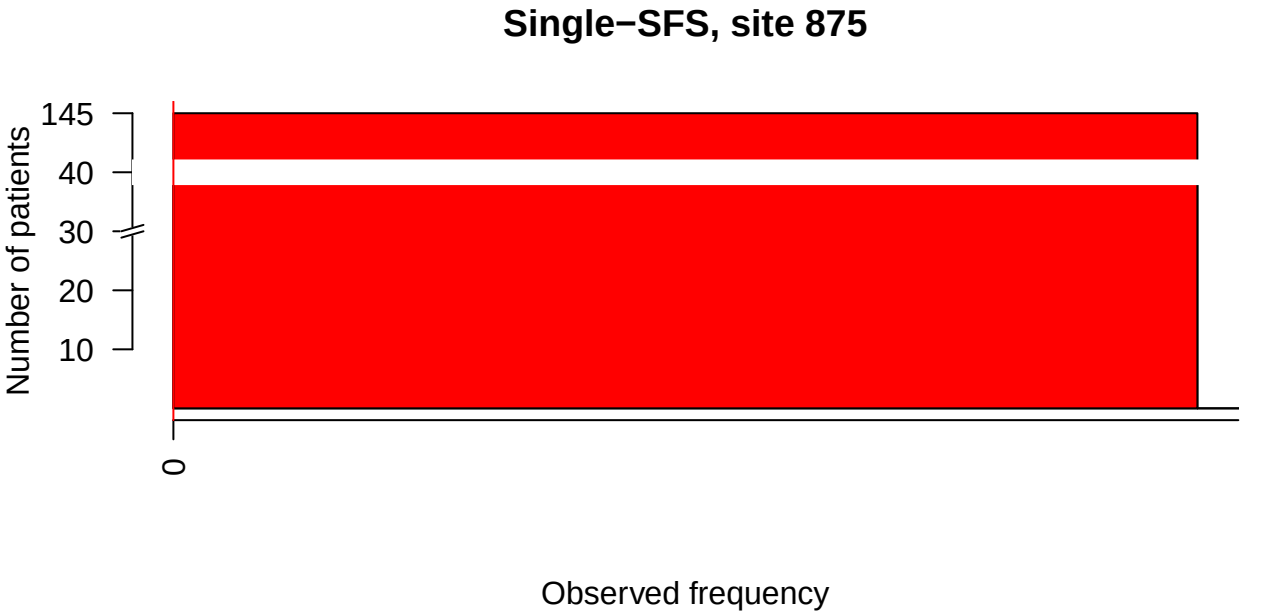

Simulated data, cost 0.0092
Number of patients
144
40
30
20
10
pvalue= 0.415
0
0.02
0.04
0.06
Observed frequency

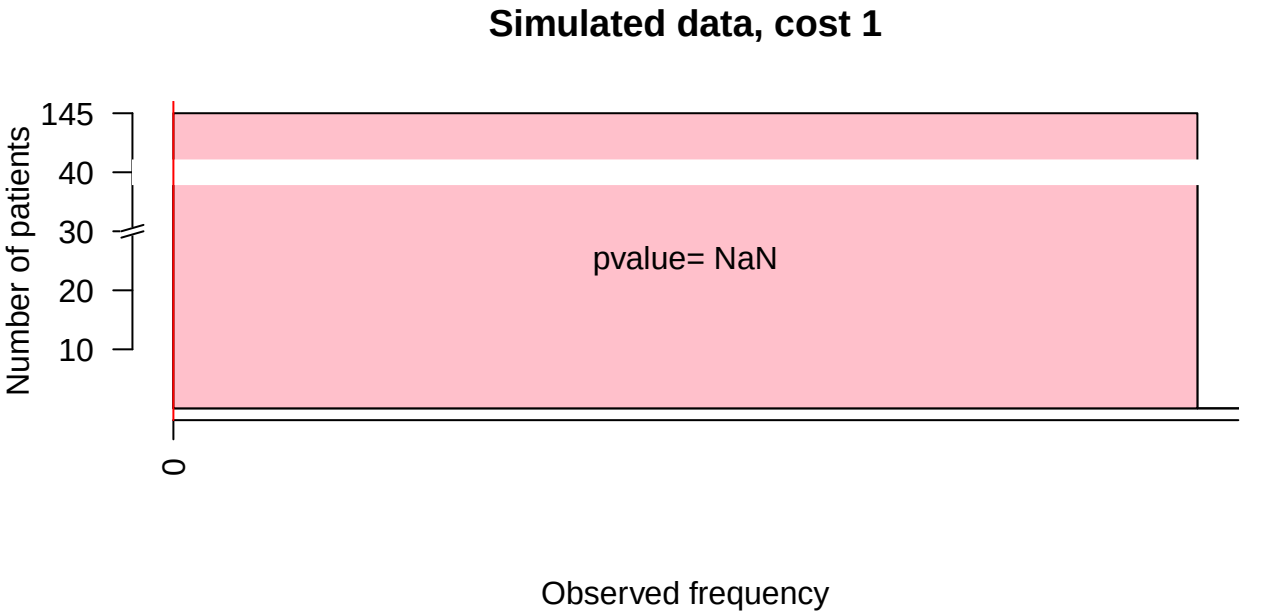

Single−SFS, site 873
Number of patients
123
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
0.24
0.26
0.28
0.3
0.32
Observed frequency

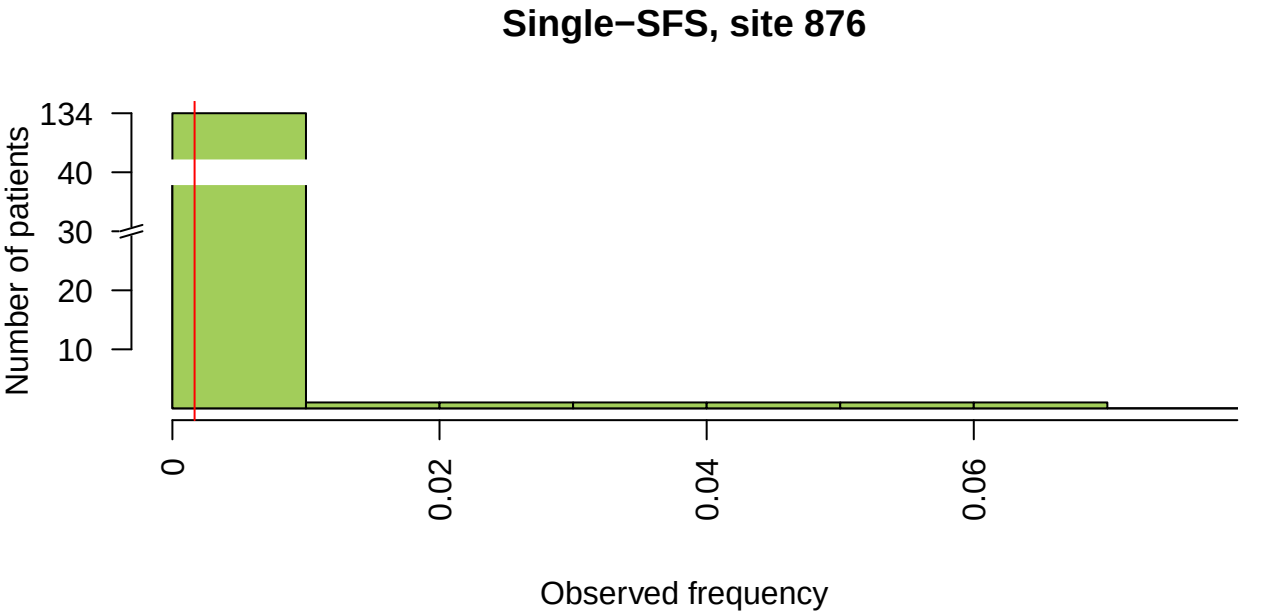

Simulated data, cost 0.0038
Number of patients
123
40
30
20
10
pvalue= 0.958
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
0.24
0.26
0.28
0.3
0.32
Observed frequency

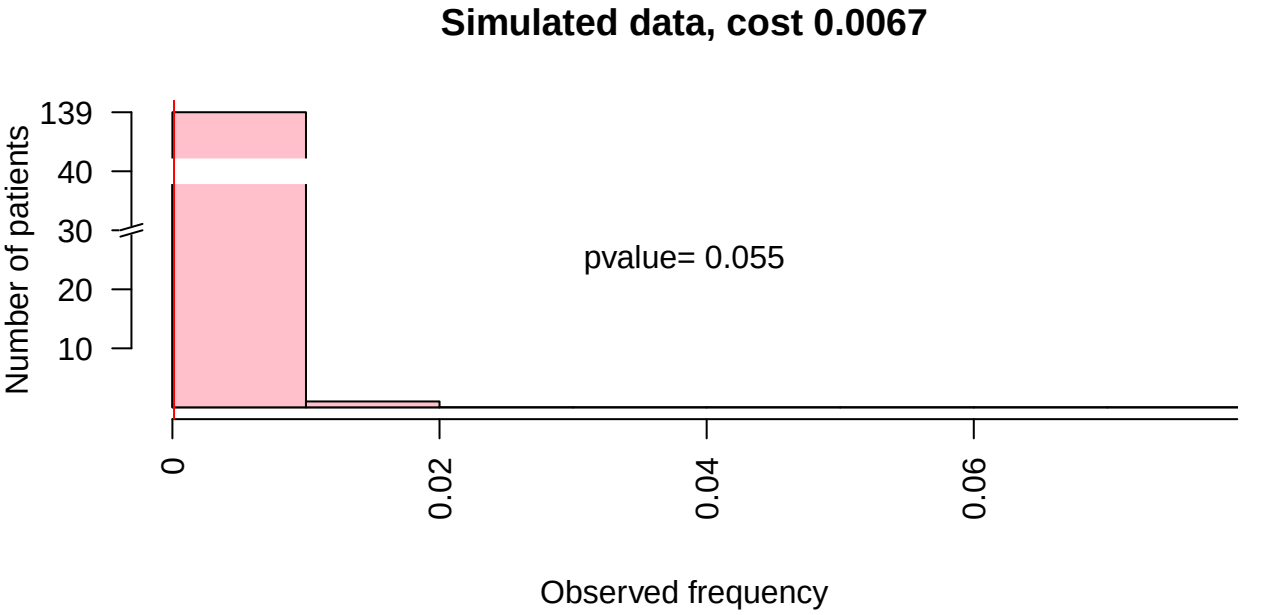

Single−SFS, site 874
Number of patients
134
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
Observed frequency

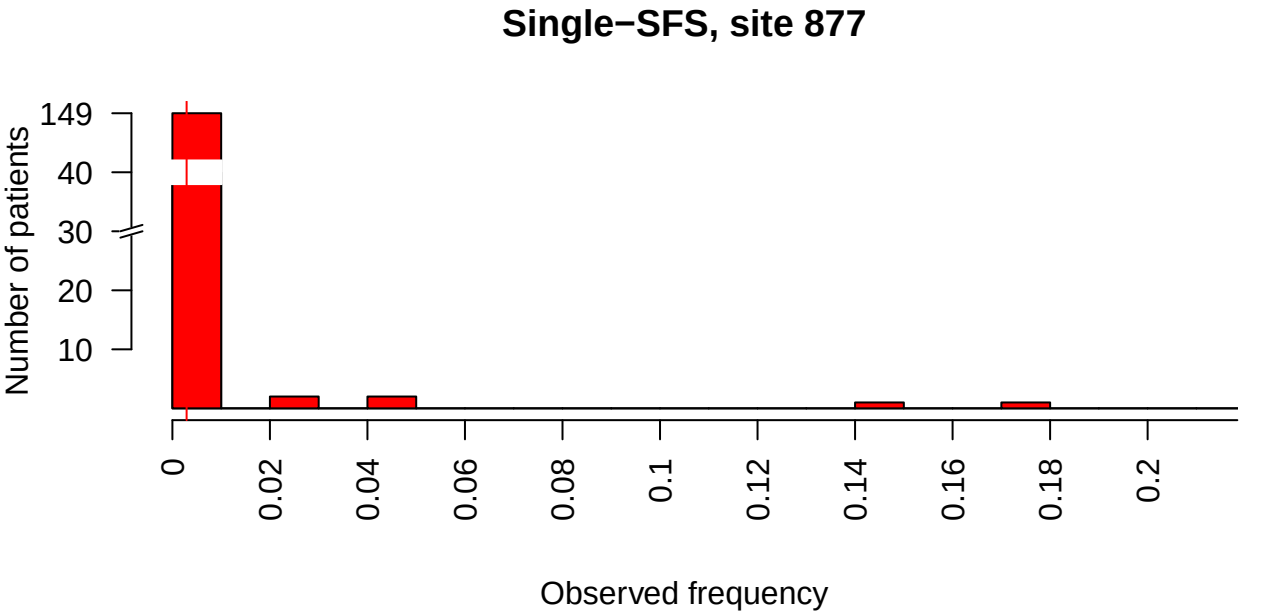

Simulated data, cost 0.0052
Number of patients
138
40
30
20
10
pvalue= 0.154
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
Observed frequency

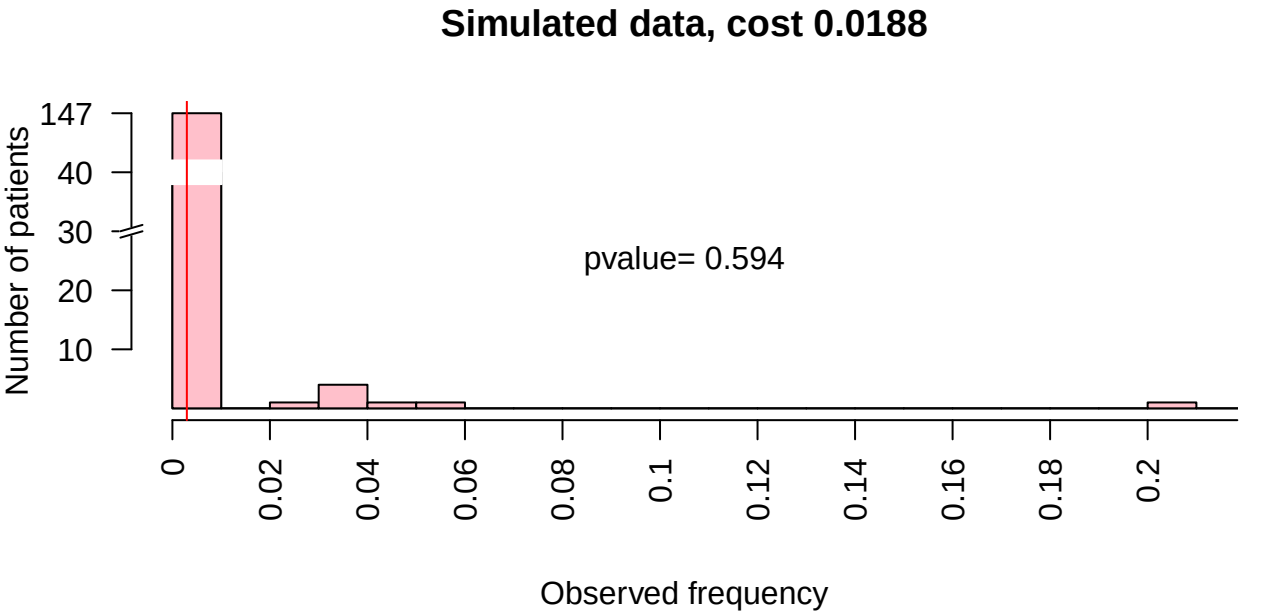

Single−SFS, site 875
Number of patients
145
40
30
20
10
0
Observed frequency

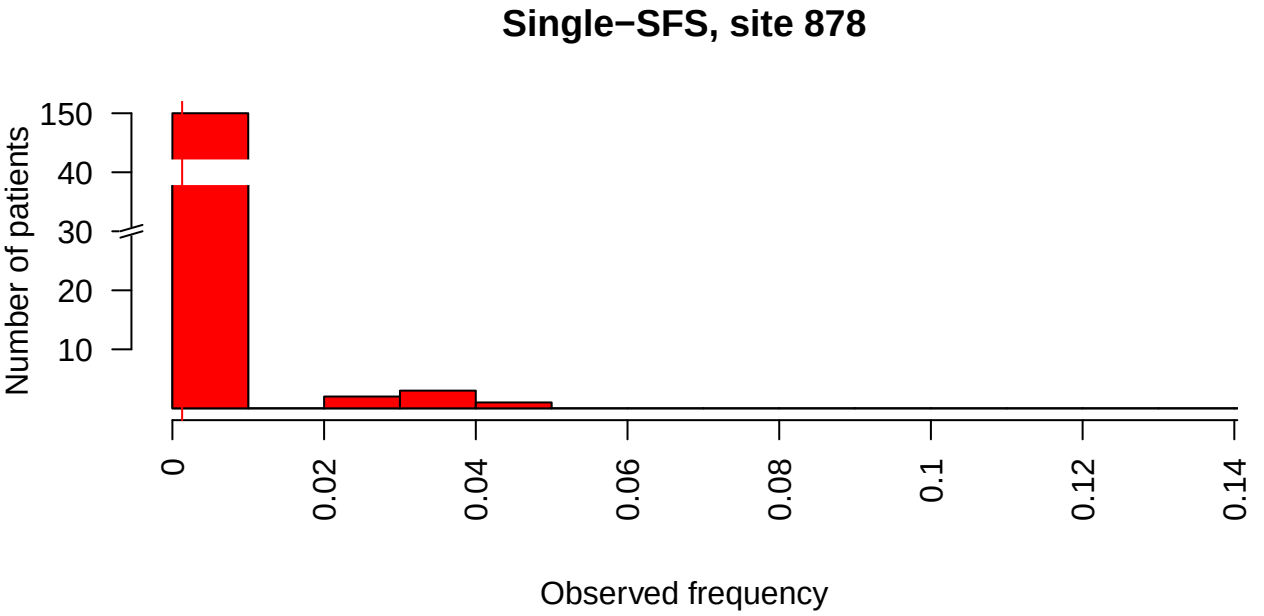

Simulated data, cost 1
Number of patients
145
40
30
20
10
0
pvalue= NaN
Observed frequency

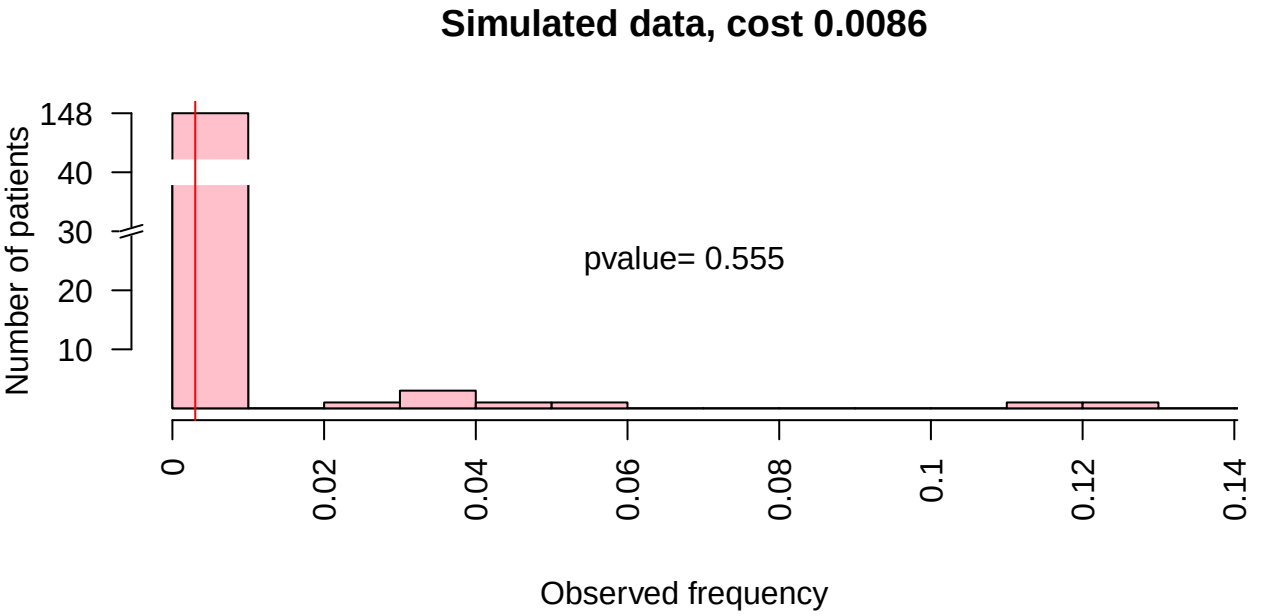

Single−SFS, site 876
Number of patients
134
40
30
20
10
0
0.02
0.04
0.06
Observed frequency

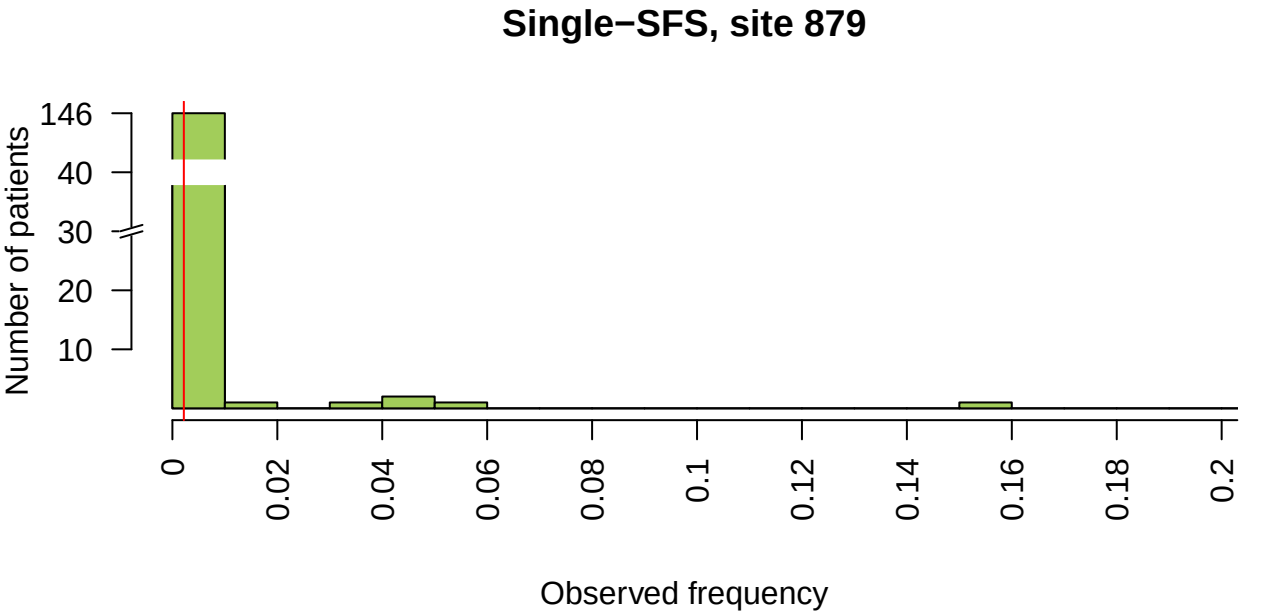

Simulated data, cost 0.0067
Number of patients
139
40
30
20
10
pvalue= 0.055
0
0.02
0.04
0.06
Observed frequency

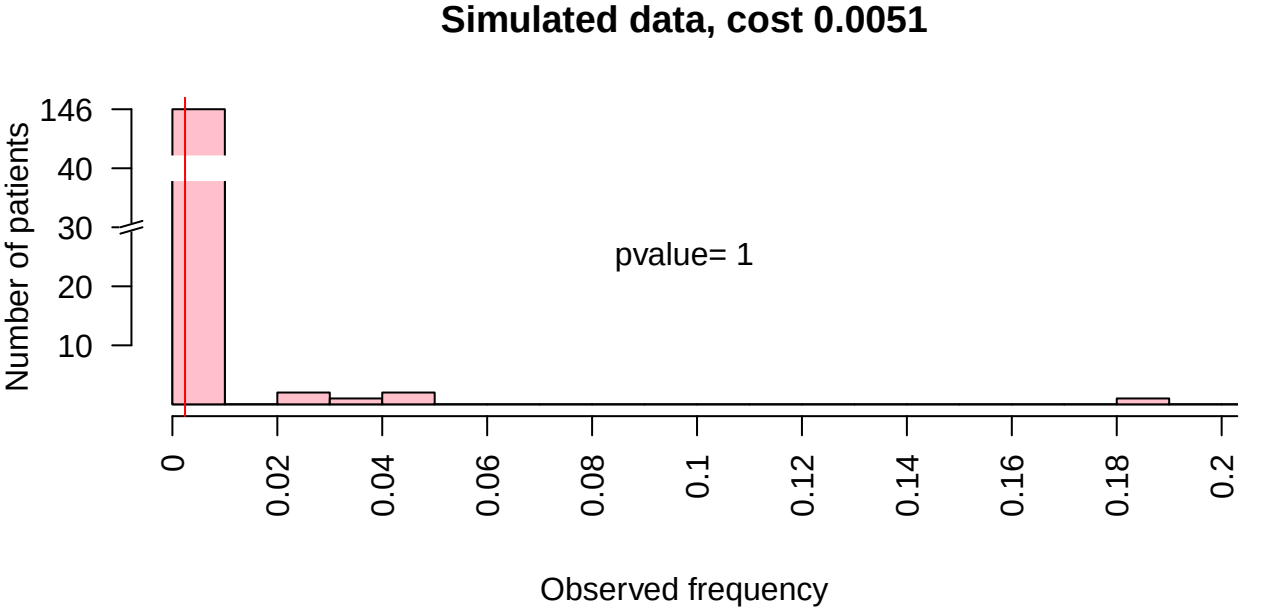

Single−SFS, site 877
Number of patients
149
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
Observed frequency

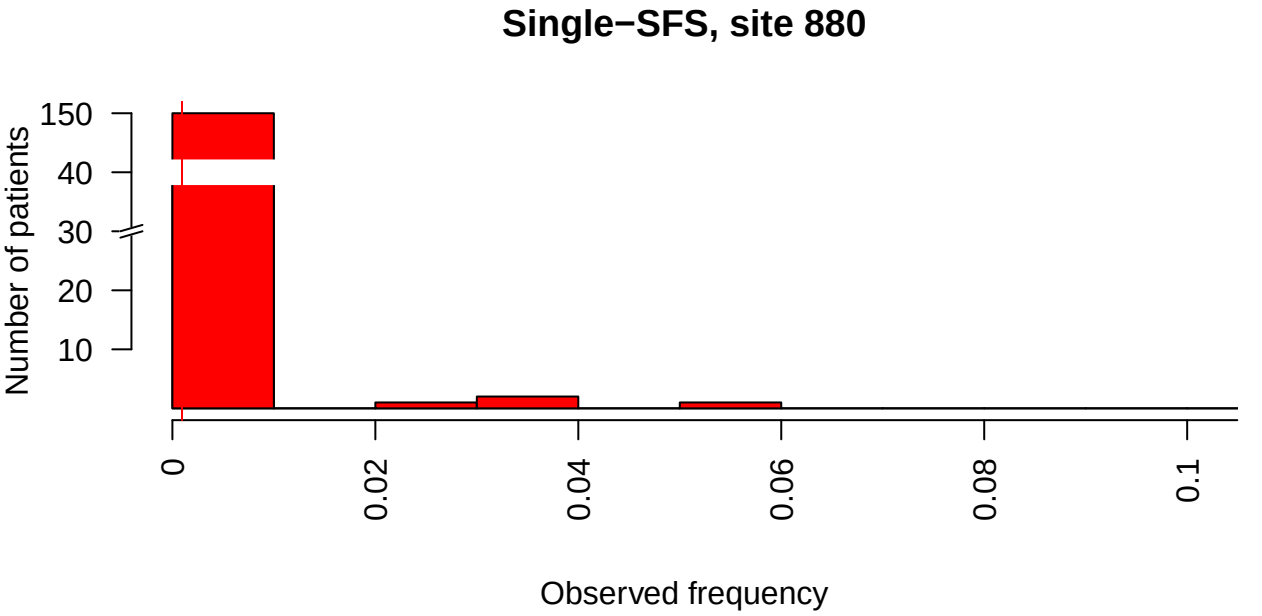

Simulated data, cost 0.0188
Number of patients
147
40
30
20
10
pvalue= 0.594
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
Observed frequency

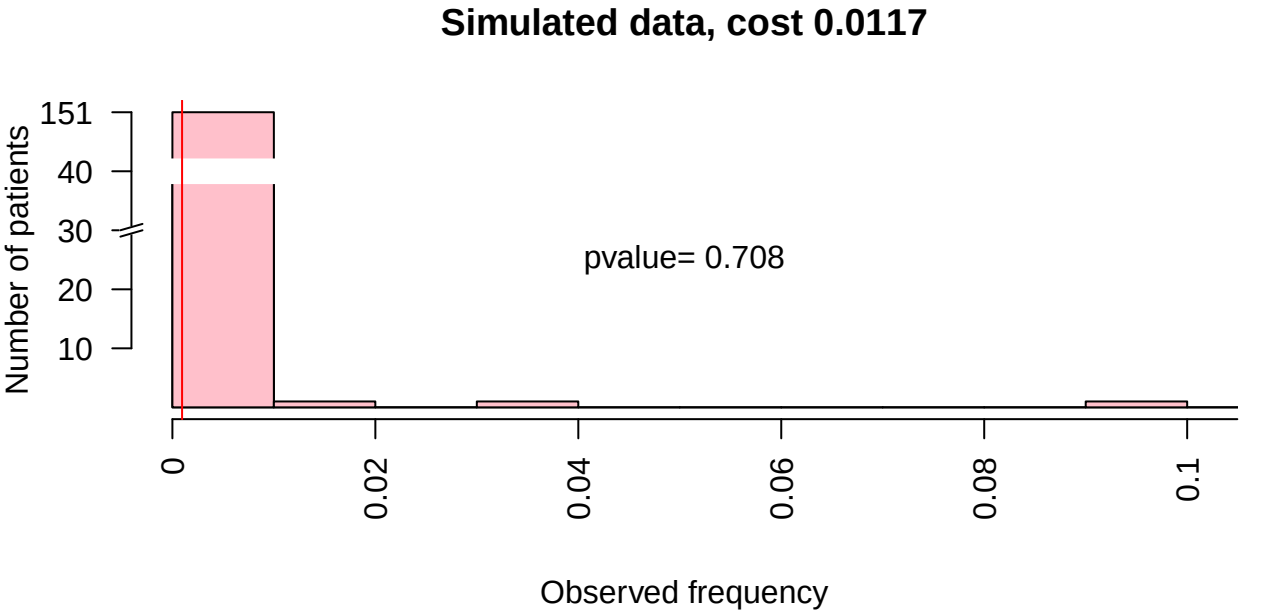

Single−SFS, site 878
Number of patients
150
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
Observed frequency

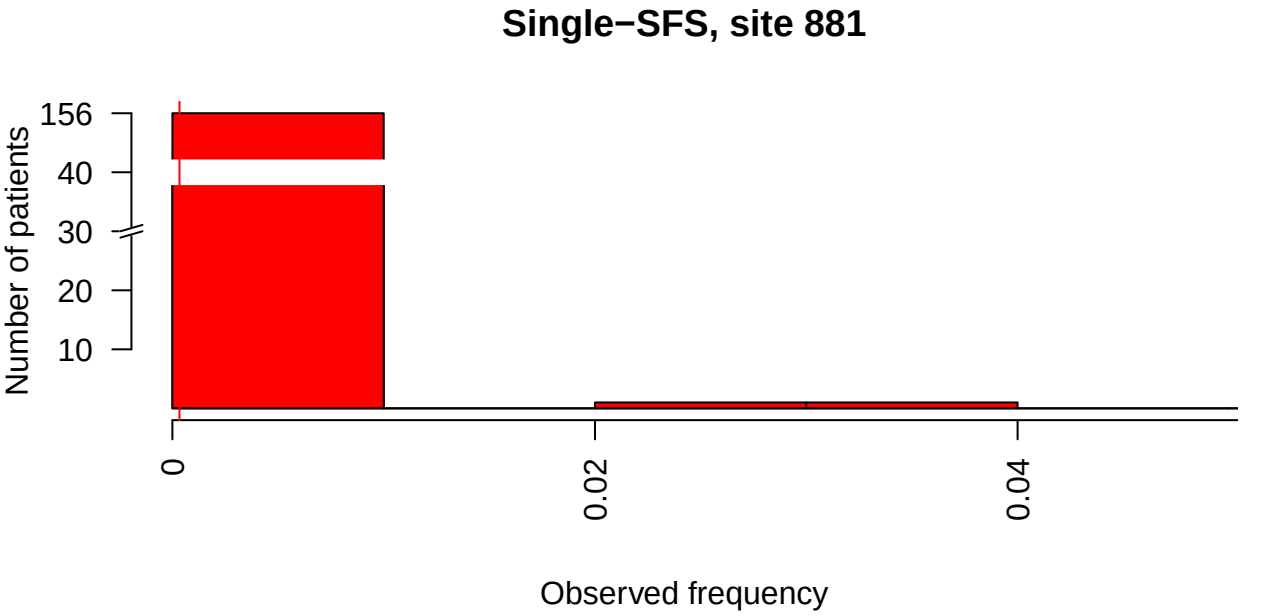

Simulated data, cost 0.0086
Number of patients
148
40
30
20
10
pvalue= 0.555
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
Observed frequency

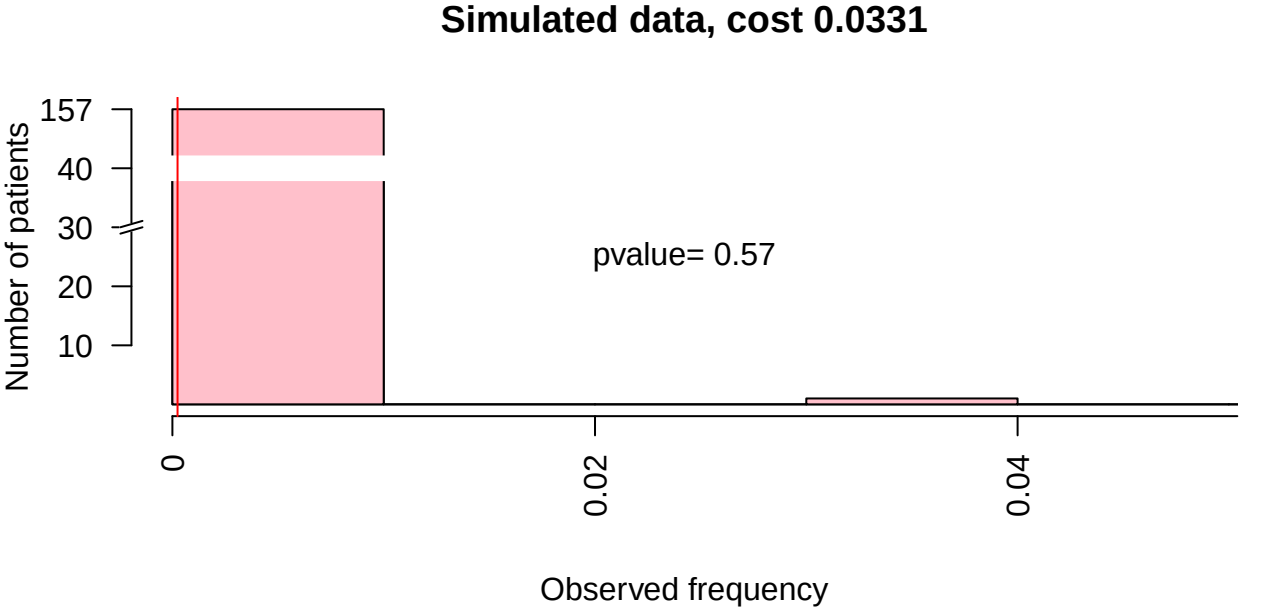

Single−SFS, site 879
Number of patients
146
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
Observed frequency

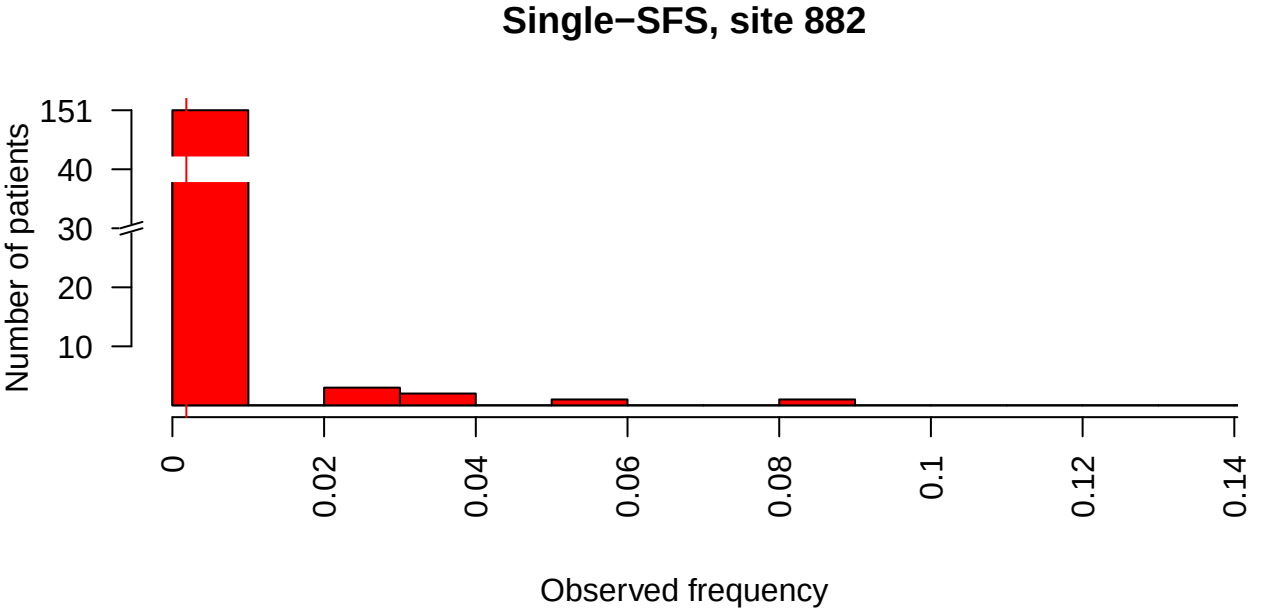

Simulated data, cost 0.0051
Number of patients
146
40
30
20
10
pvalue= 1
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
Observed frequency

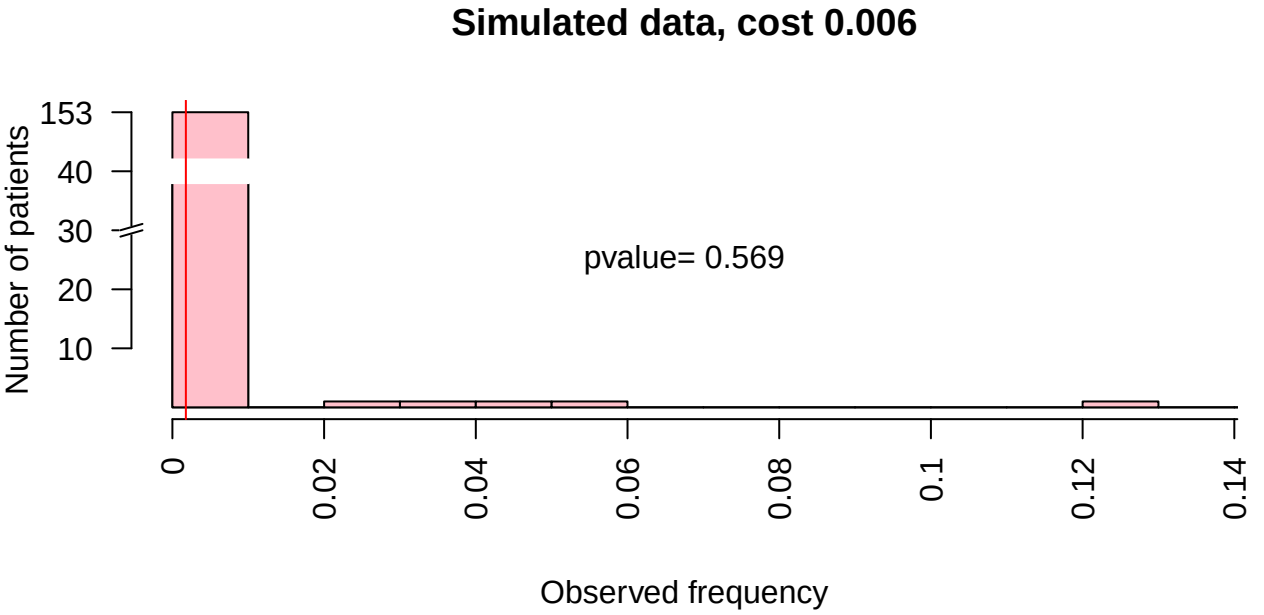

Single−SFS, site 880
Number of patients
150
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
Observed frequency

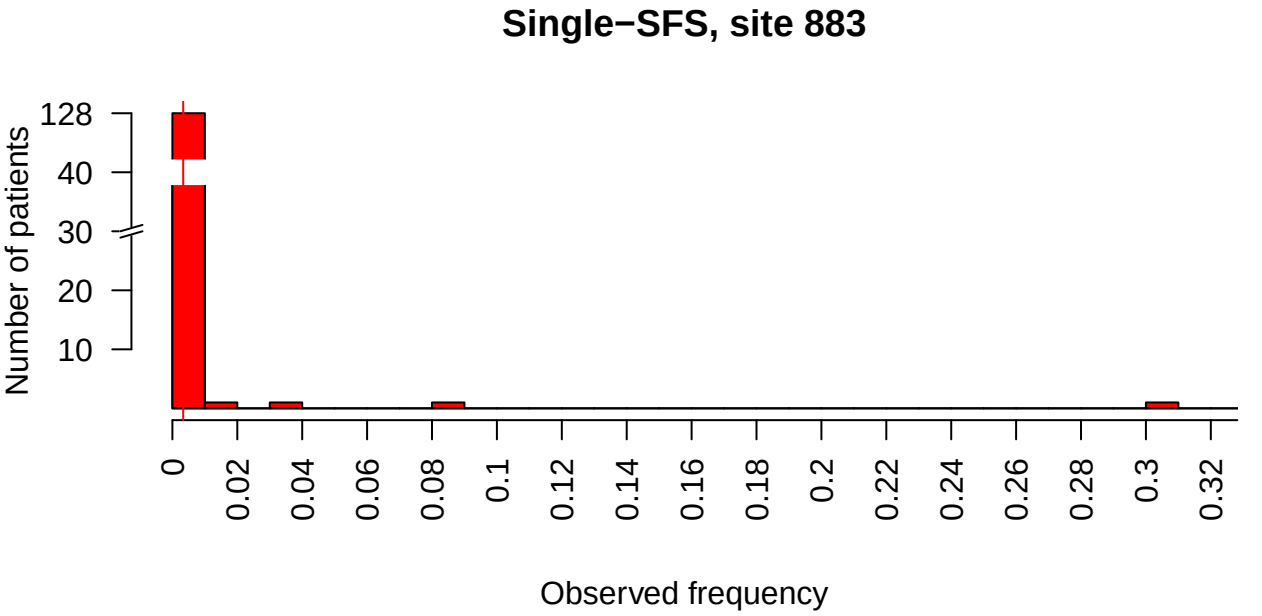

Simulated data, cost 0.0117
Number of patients
151
40
30
20
10
pvalue= 0.708
0
0.02
0.04
0.06
0.08
0.1
Observed frequency

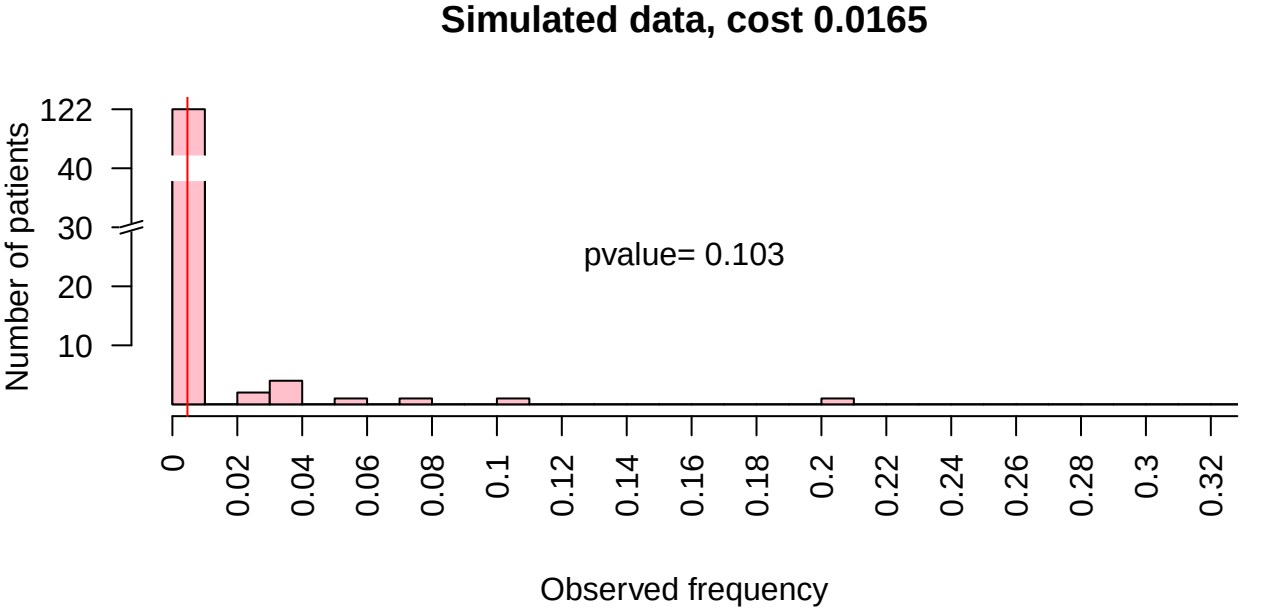

Single−SFS, site 881
Number of patients
156
40
30
20
10
0
0.02
0.04
Observed frequency

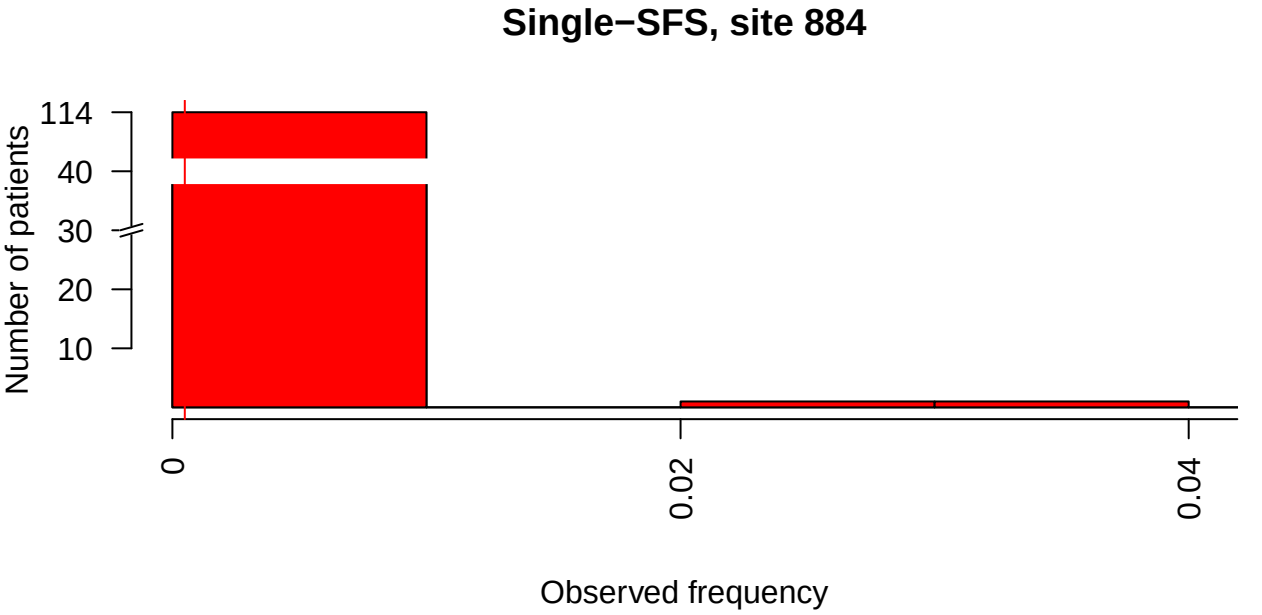

Simulated data, cost 0.0331
Number of patients
157
40
30
20
10
pvalue= 0.57
0
0.02
0.04
Observed frequency

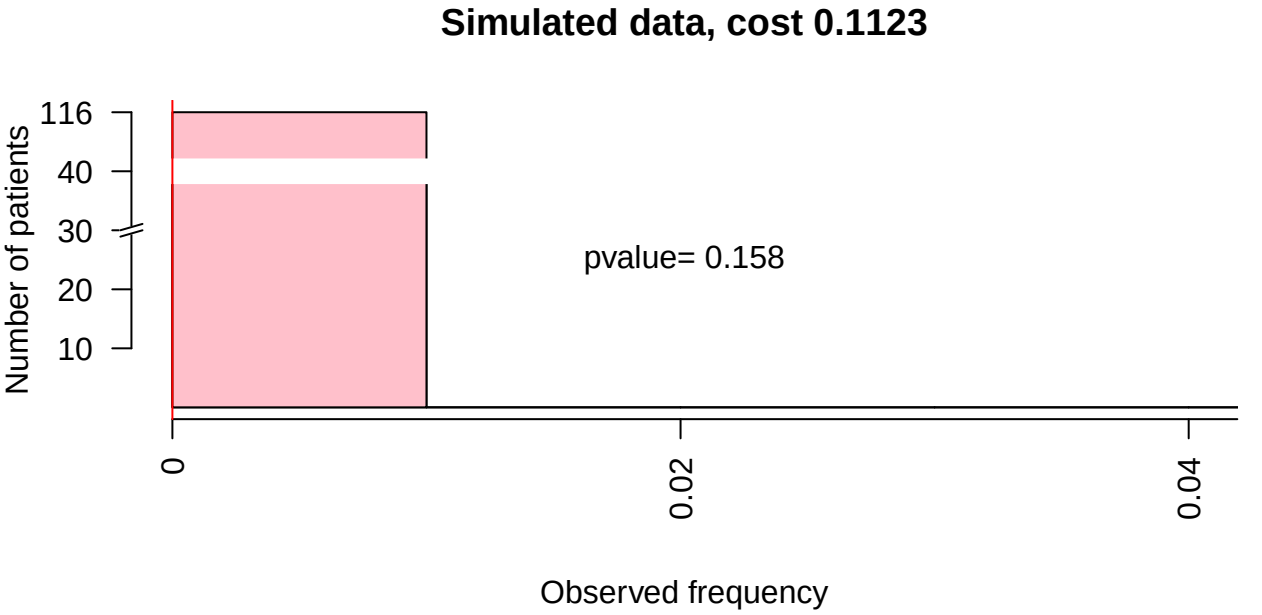

Single−SFS, site 882
Number of patients
151
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
Observed frequency

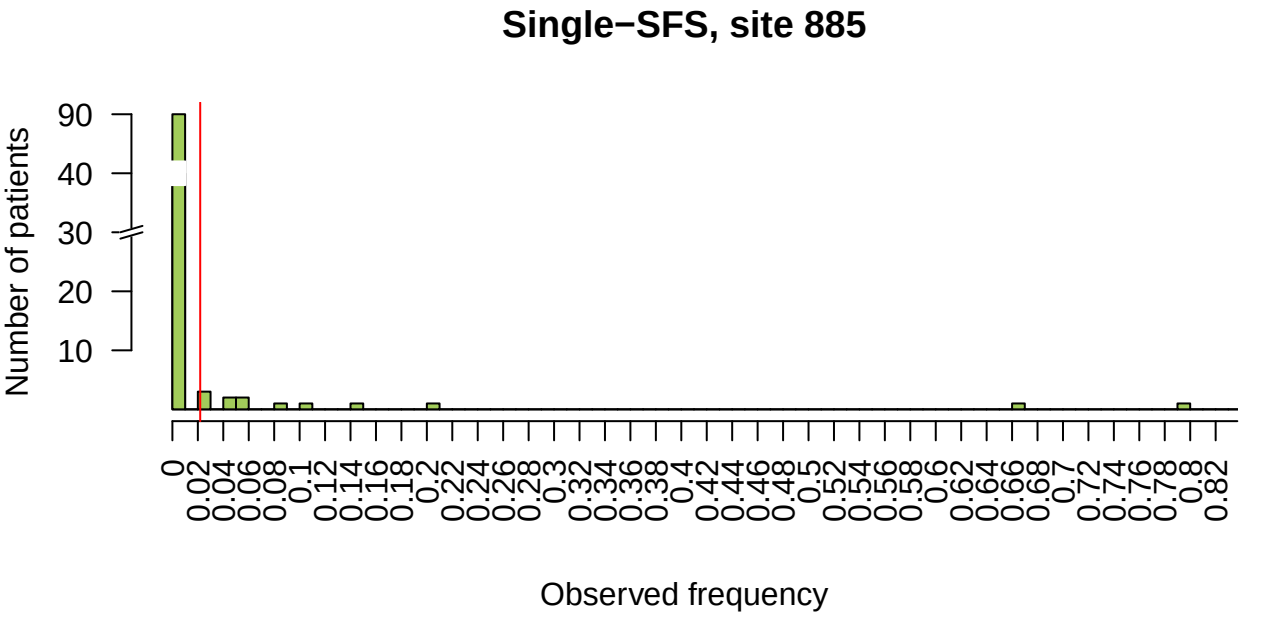

Simulated data, cost 0.006
Number of patients
153
40
30
20
10
pvalue= 0.569
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
Observed frequency

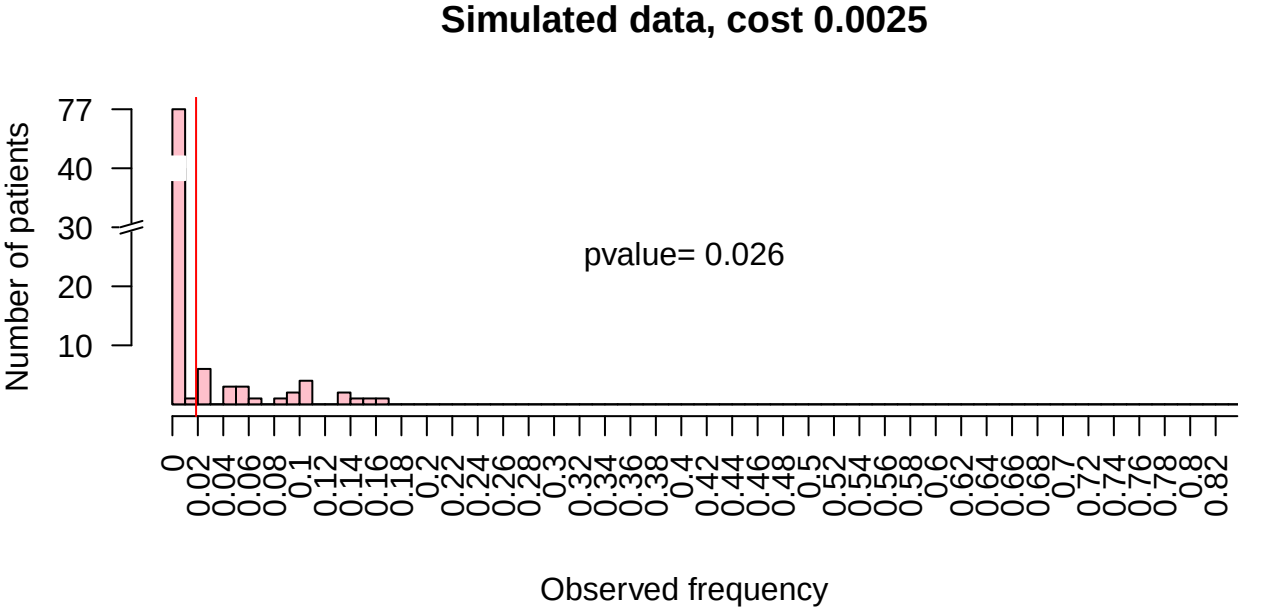

Single−SFS, site 883
Number of patients
128
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
0.24
0.26
0.28
0.3
0.32
Observed frequency

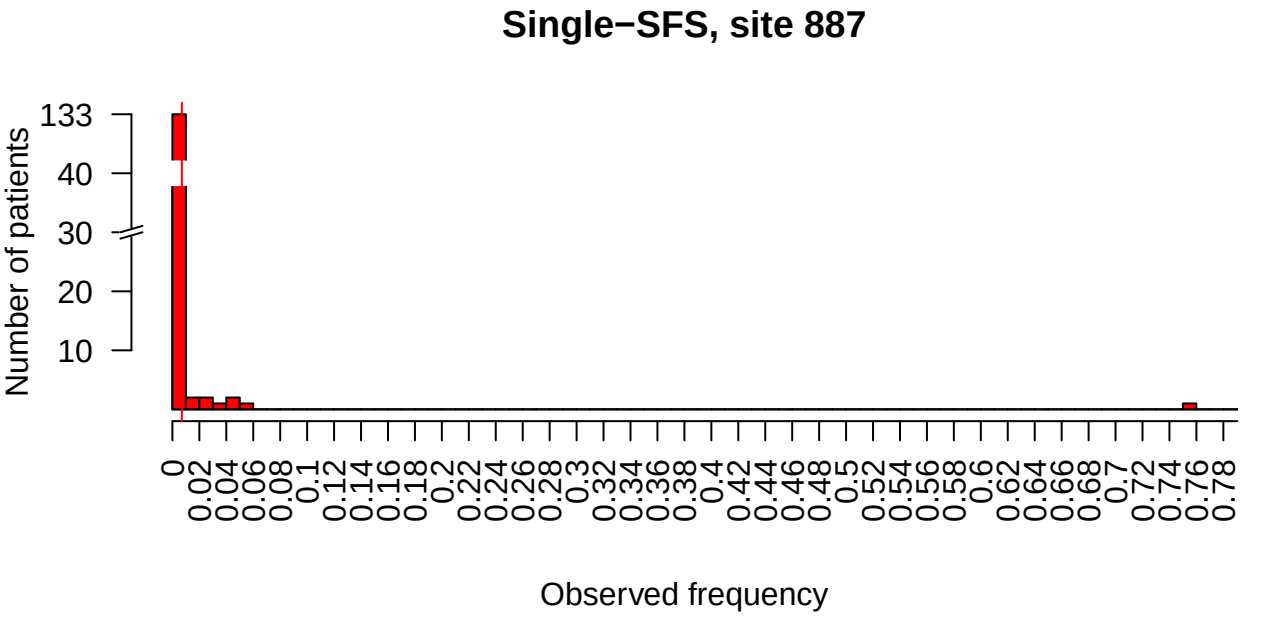

Simulated data, cost 0.0165
Number of patients
122
40
30
20
10
pvalue= 0.103
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
0.24
0.26
0.28
0.3
0.32
Observed frequency

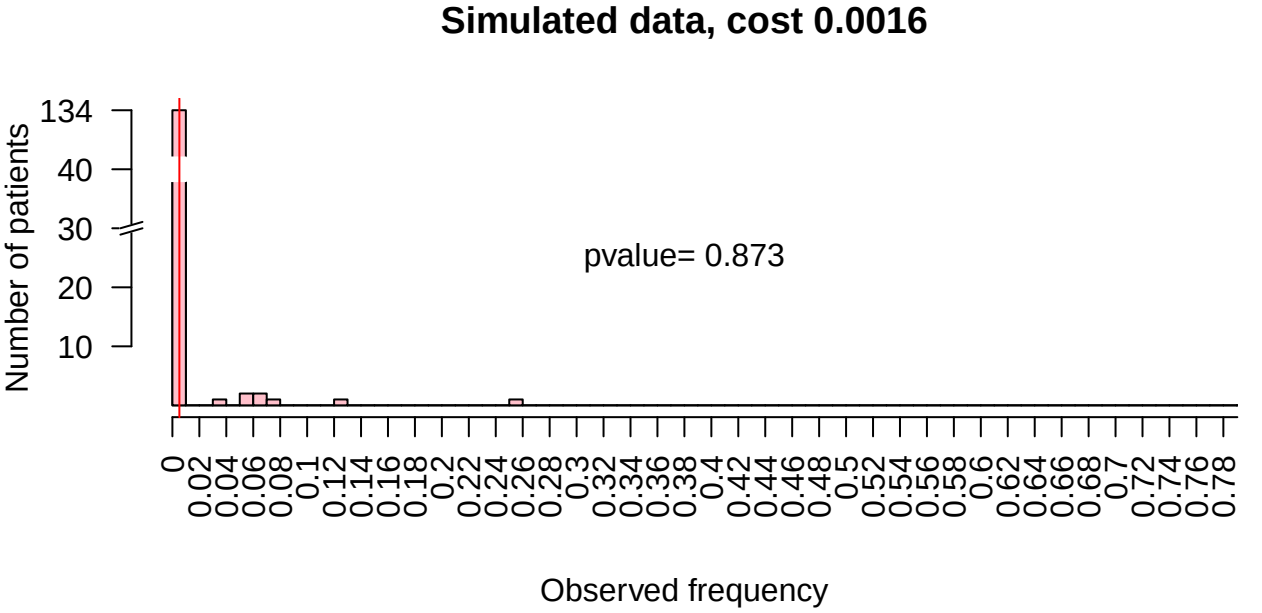

Single−SFS, site 884
Number of patients
114
40
30
20
10
0
0.02
0.04
Observed frequency

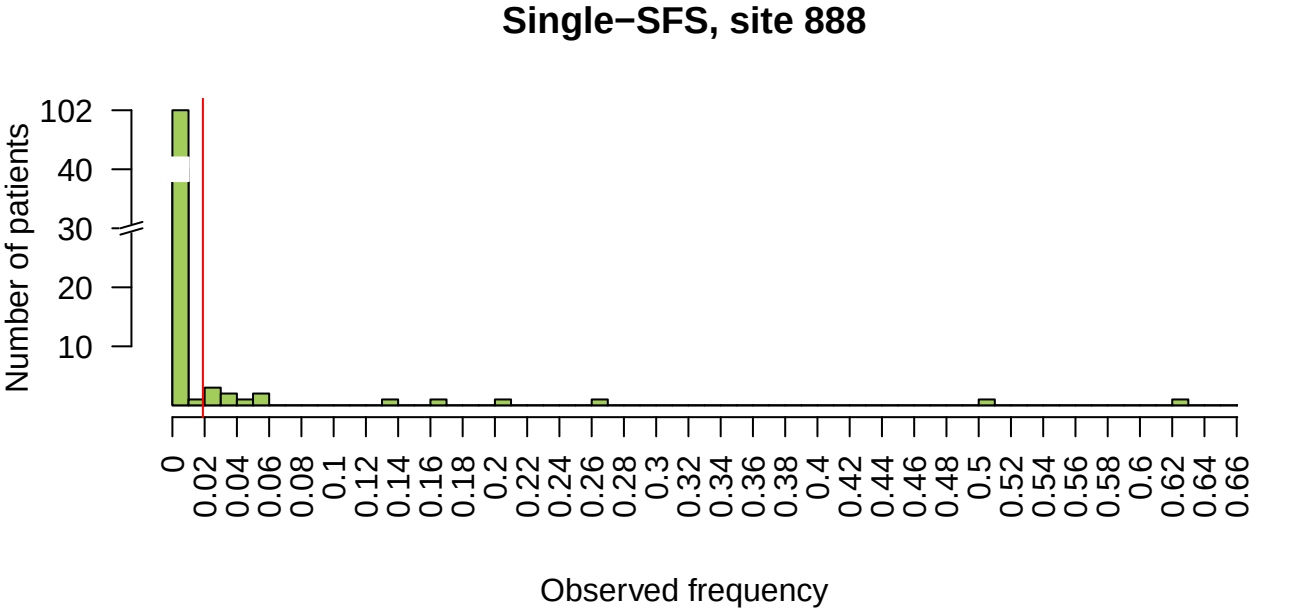

Simulated data, cost 0.1123
Number of patients
116
40
30
20
10
pvalue= 0.158
0
0.02
0.04
Observed frequency

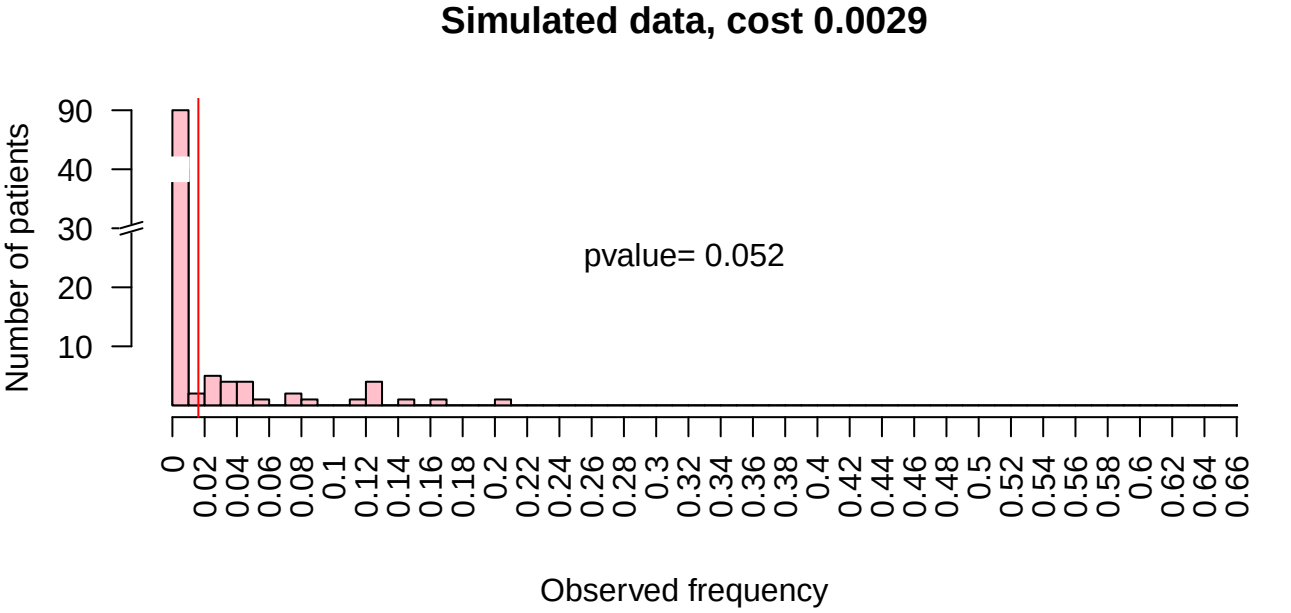

Single−SFS, site 885
Number of patients
90
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
0.24
0.26
0.28
0.3
0.32
0.34
0.36
0.38
0.4
0.42
0.44
0.46
0.48
0.5
0.52
0.54
0.56
0.58
0.6
0.62
0.64
0.66
0.68
0.7
0.72
0.74
0.76
0.78
0.8
0.82
Observed frequency

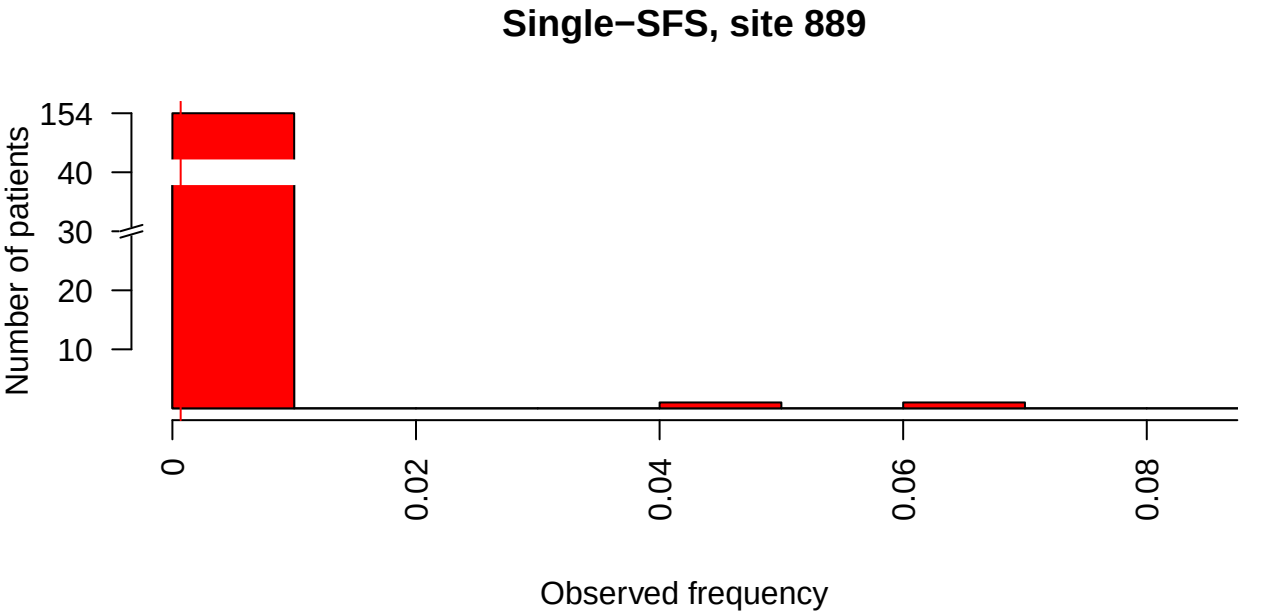

Simulated data, cost 0.0025
Number of patients
77
40
30
20
10
pvalue= 0.026
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
0.24
0.26
0.28
0.3
0.32
0.34
0.36
0.38
0.4
0.42
0.44
0.46
0.48
0.5
0.52
0.54
0.56
0.58
0.6
0.62
0.64
0.66
0.68
0.7
0.72
0.74
0.76
0.78
0.8
0.82
Observed frequency

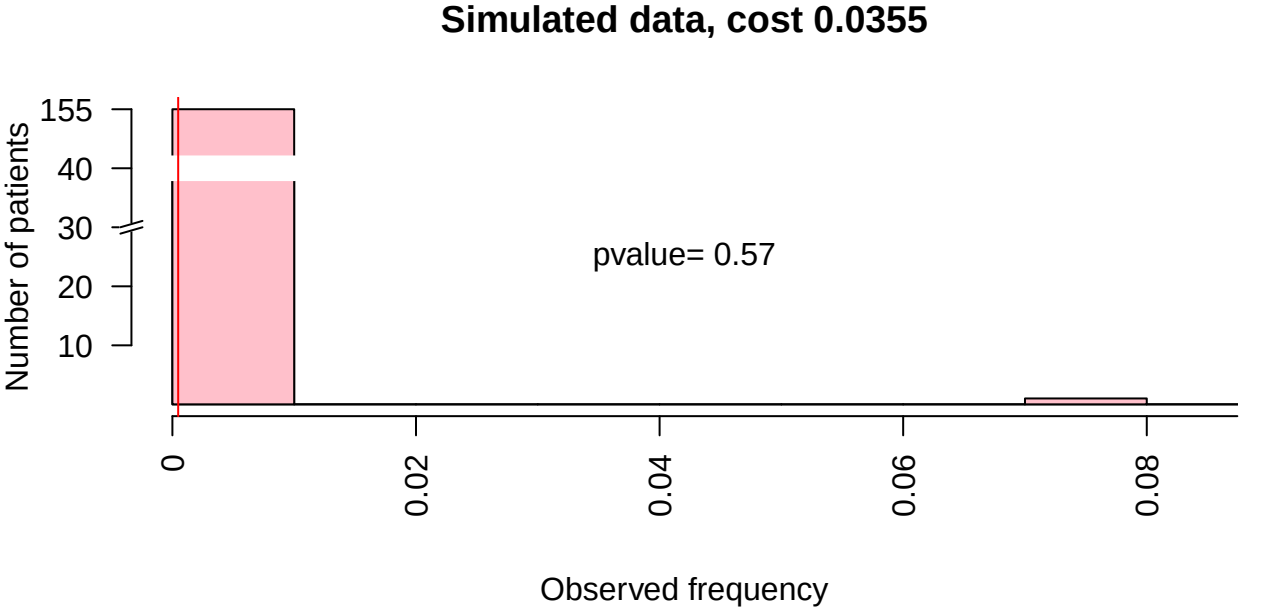

Single−SFS, site 887
Number of patients
133
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
0.24
0.26
0.28
0.3
0.32
0.34
0.36
0.38
0.4
0.42
0.44
0.46
0.48
0.5
0.52
0.54
0.56
0.58
0.6
0.62
0.64
0.66
0.68
0.7
0.72
0.74
0.76
0.78
Observed frequency

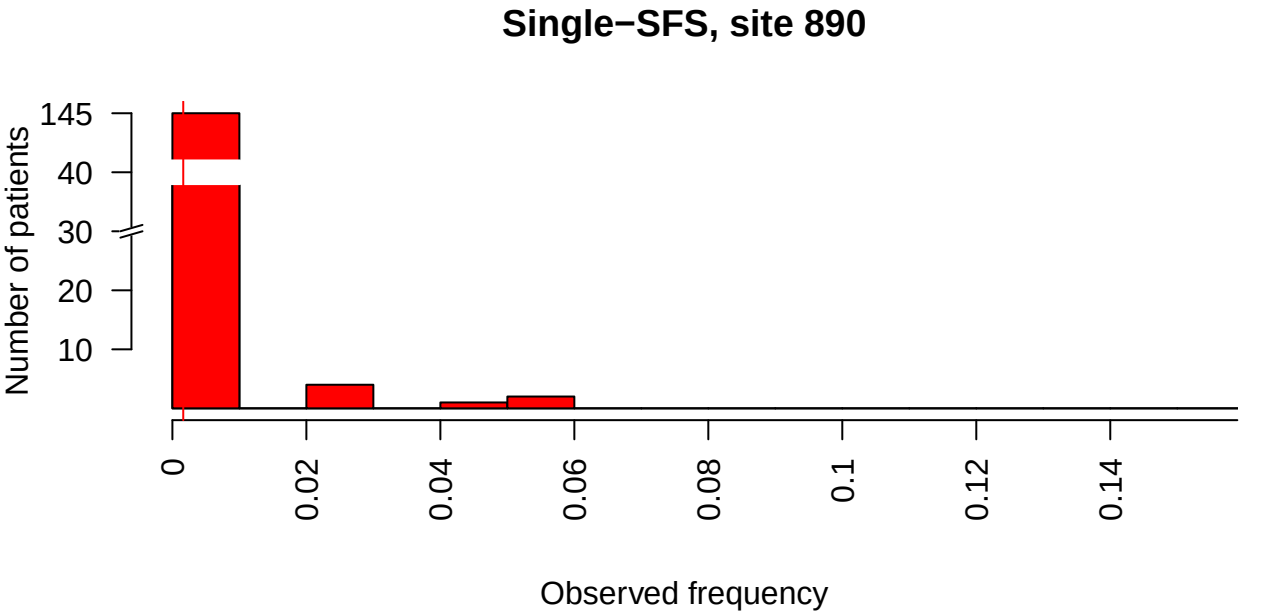

Simulated data, cost 0.0016
Number of patients
134
40
30
20
10
pvalue= 0.873
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
0.24
0.26
0.28
0.3
0.32
0.34
0.36
0.38
0.4
0.42
0.44
0.46
0.48
0.5
0.52
0.54
0.56
0.58
0.6
0.62
0.64
0.66
0.68
0.7
0.72
0.74
0.76
0.78
Observed frequency

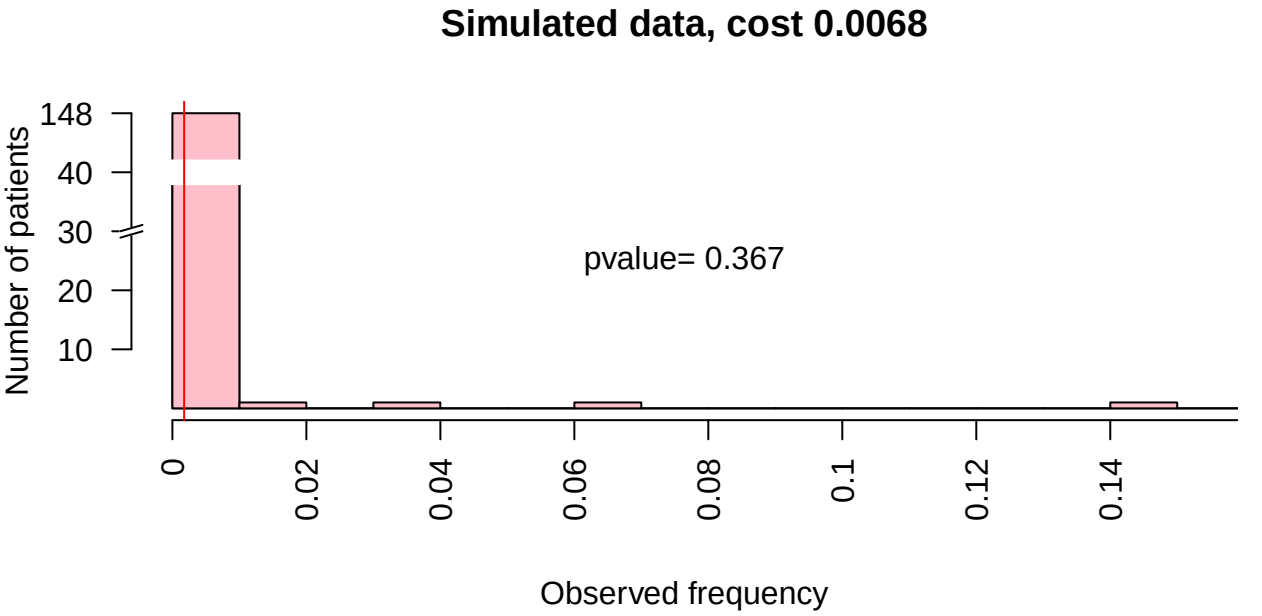

Single−SFS, site 888
Number of patients
102
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
0.24
0.26
0.28
0.3
0.32
0.34
0.36
0.38
0.4
0.42
0.44
0.46
0.48
0.5
0.52
0.54
0.56
0.58
0.6
0.62
0.64
0.66
Observed frequency

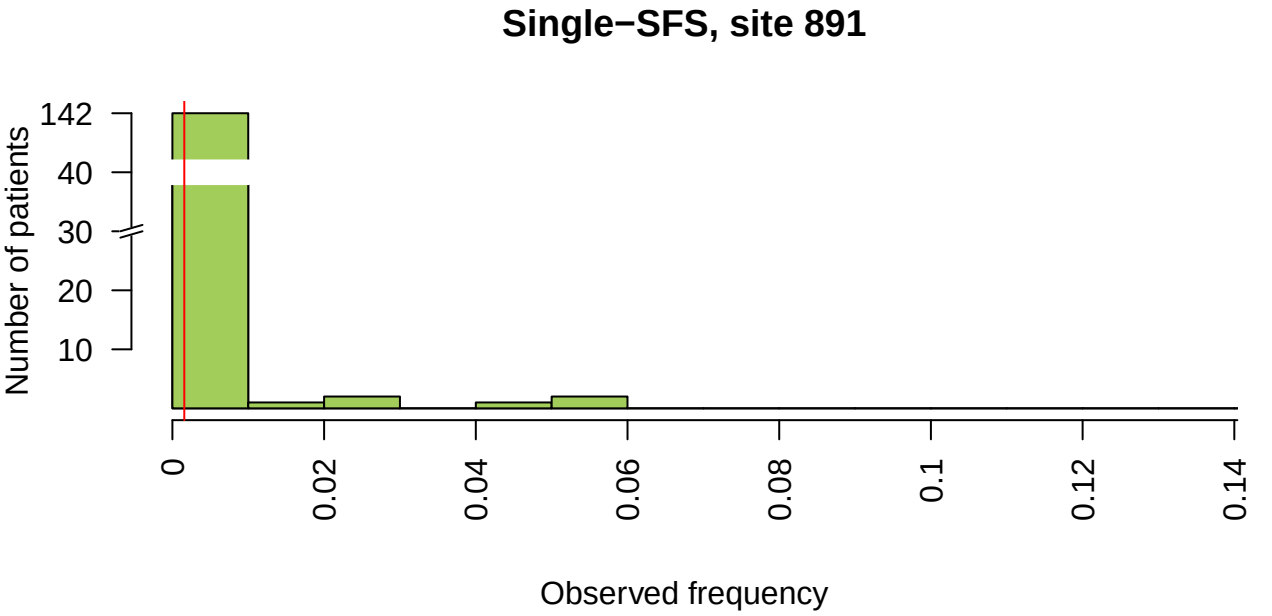

Simulated data, cost 0.0029
Number of patients
90
40
30
20
10
pvalue= 0.052
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
0.24
0.26
0.28
0.3
0.32
0.34
0.36
0.38
0.4
0.42
0.44
0.46
0.48
0.5
0.52
0.54
0.56
0.58
0.6
0.62
0.64
0.66
Observed frequency

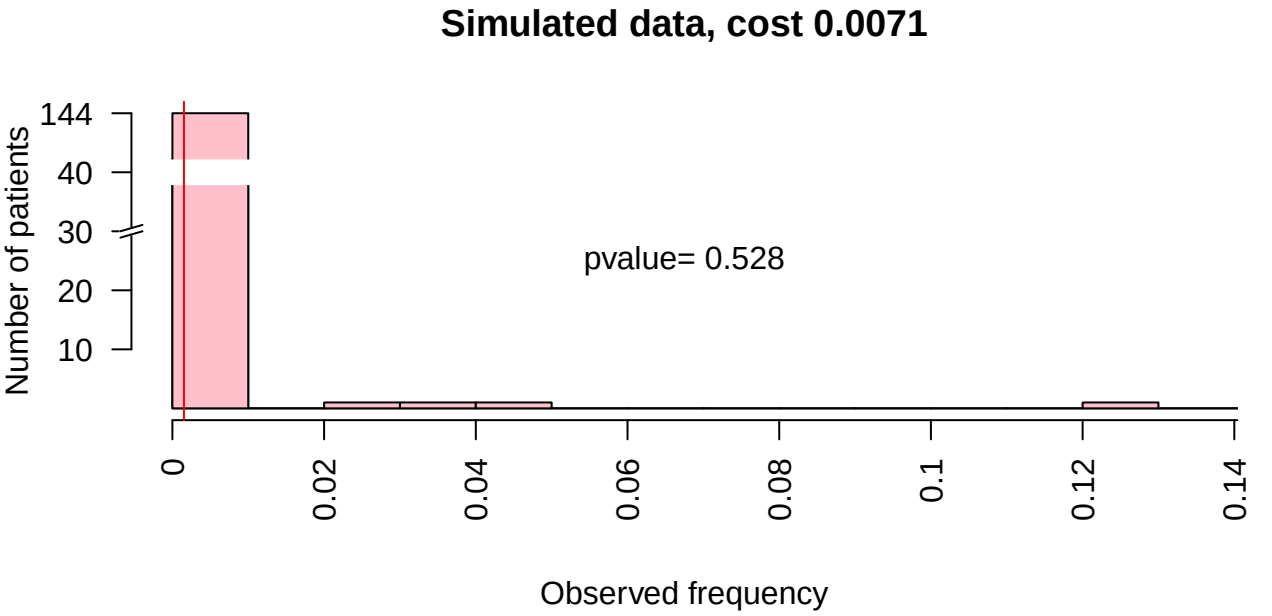

Single−SFS, site 889
Number of patients
154
40
30
20
10
0
0.02
0.04
0.06
0.08
Observed frequency

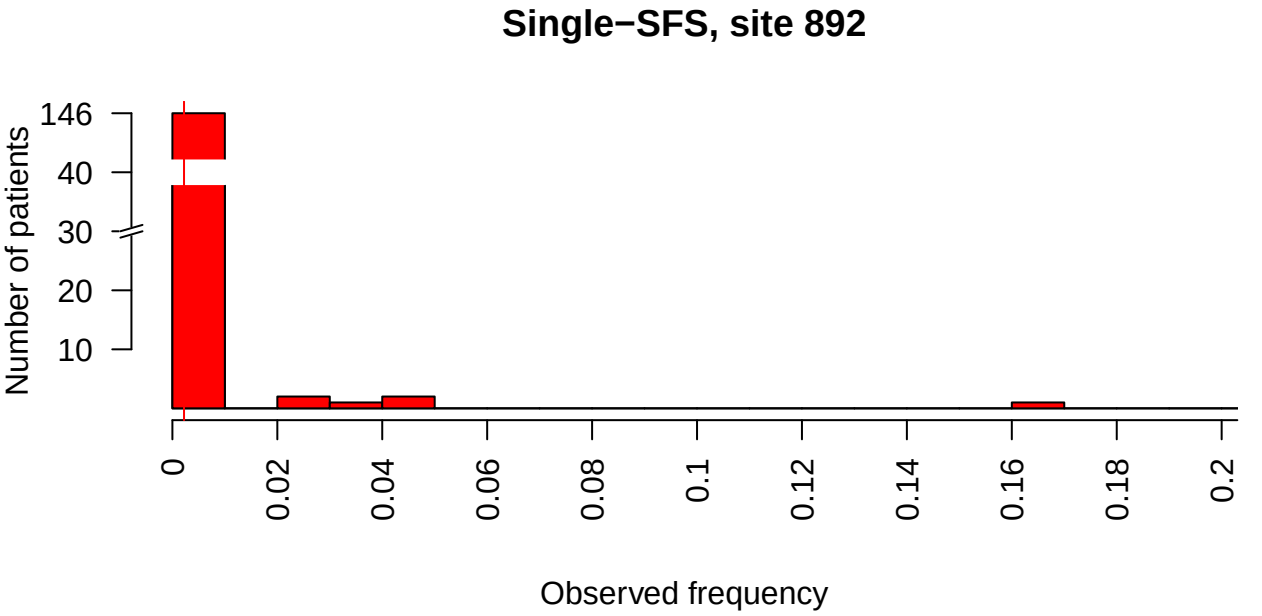

Simulated data, cost 0.0355
Number of patients
155
40
30
20
10
pvalue= 0.57
0
0.02
0.04
0.06
0.08
Observed frequency

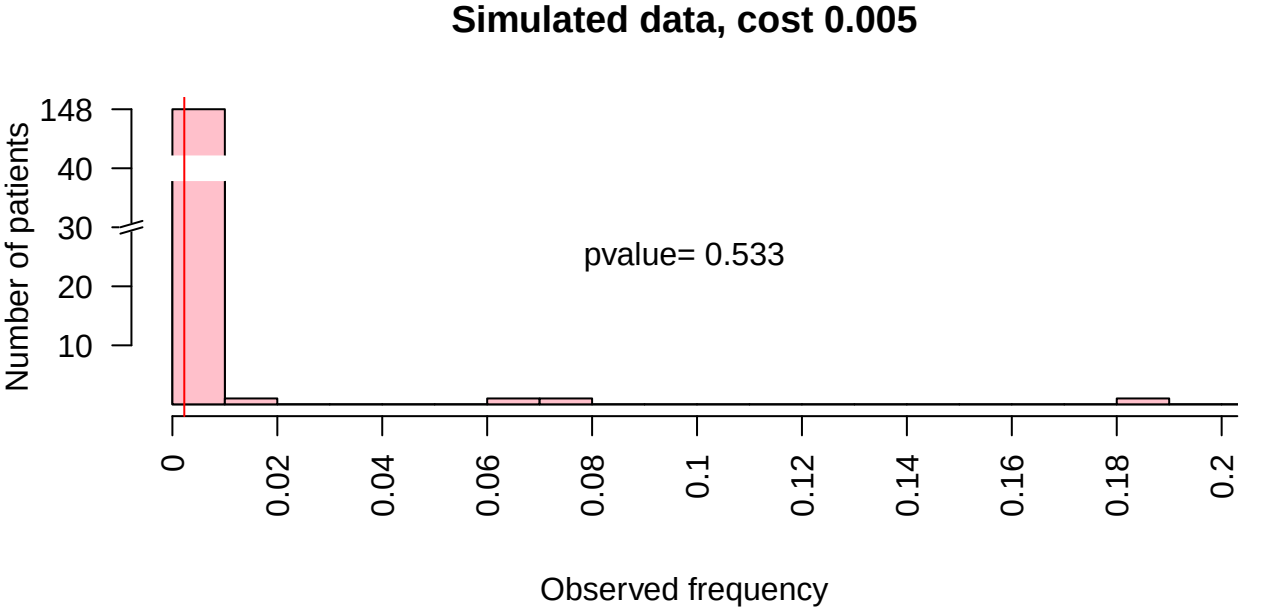

Single−SFS, site 890
Number of patients
145
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
Observed frequency

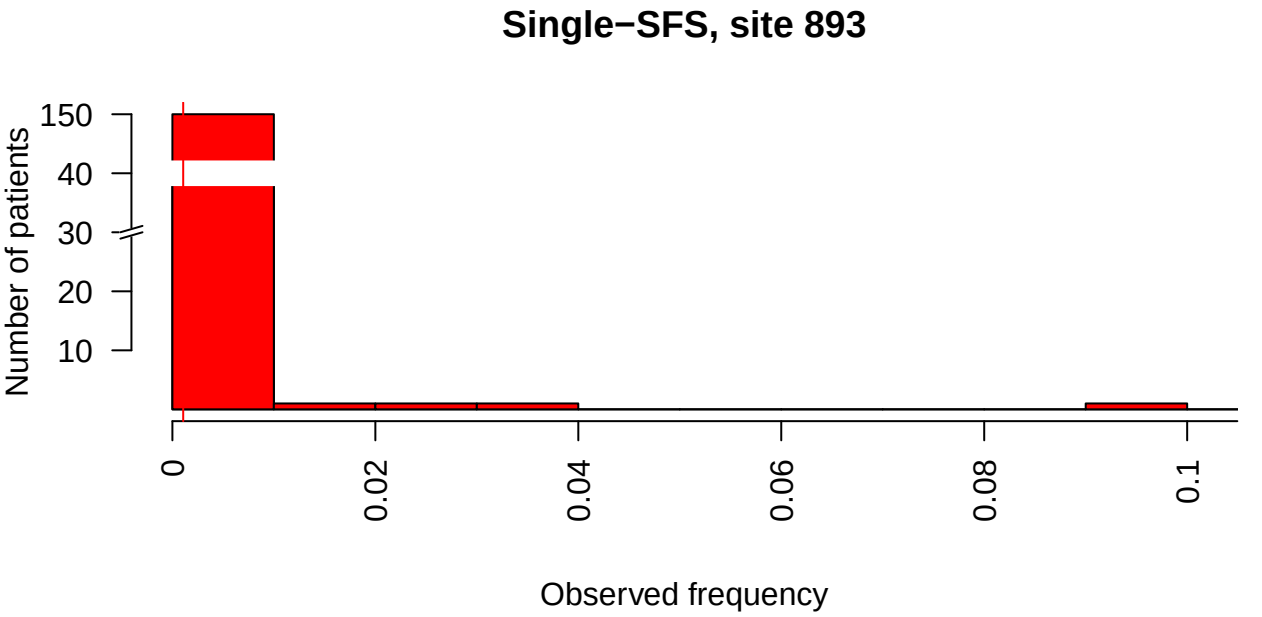

Simulated data, cost 0.0068
Number of patients
148
40
30
20
10
pvalue= 0.367
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
Observed frequency

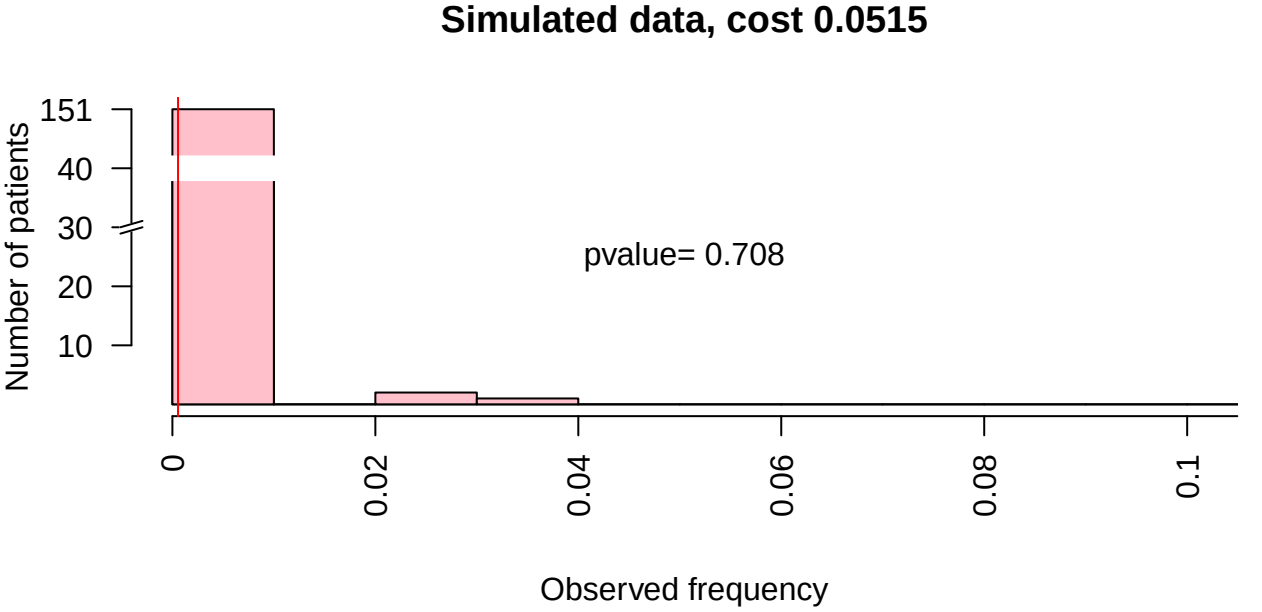

Single−SFS, site 891
Number of patients
142
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
Observed frequency

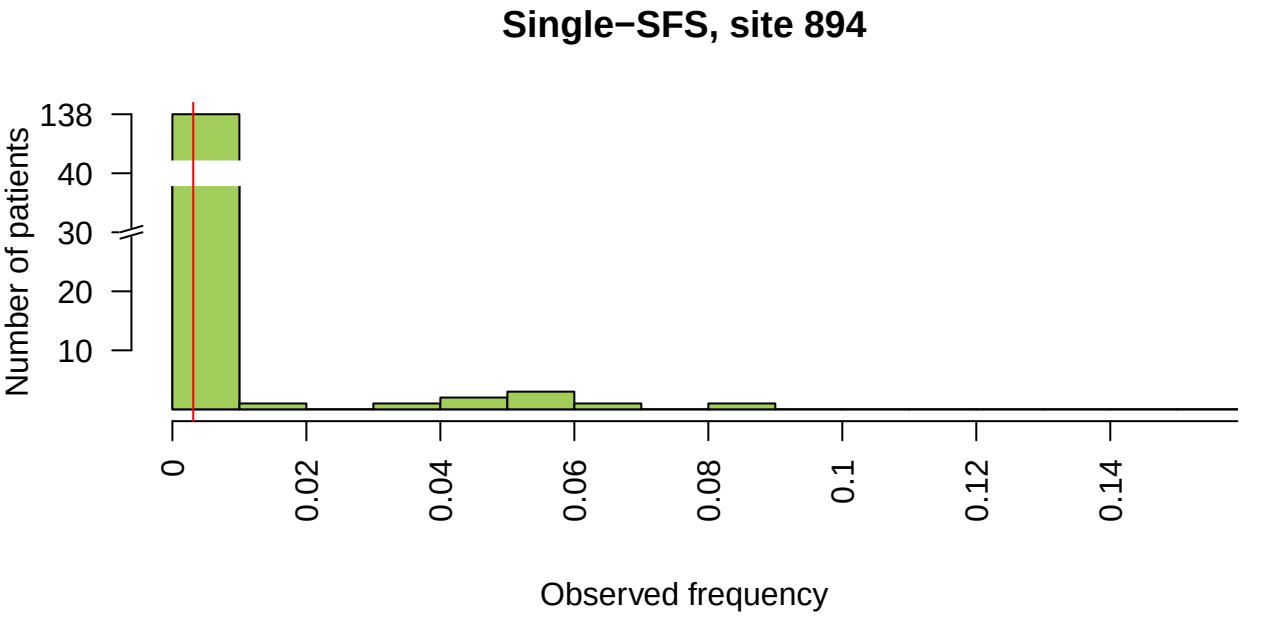

Simulated data, cost 0.0071
Number of patients
144
40
30
20
10
pvalue= 0.528
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
Observed frequency

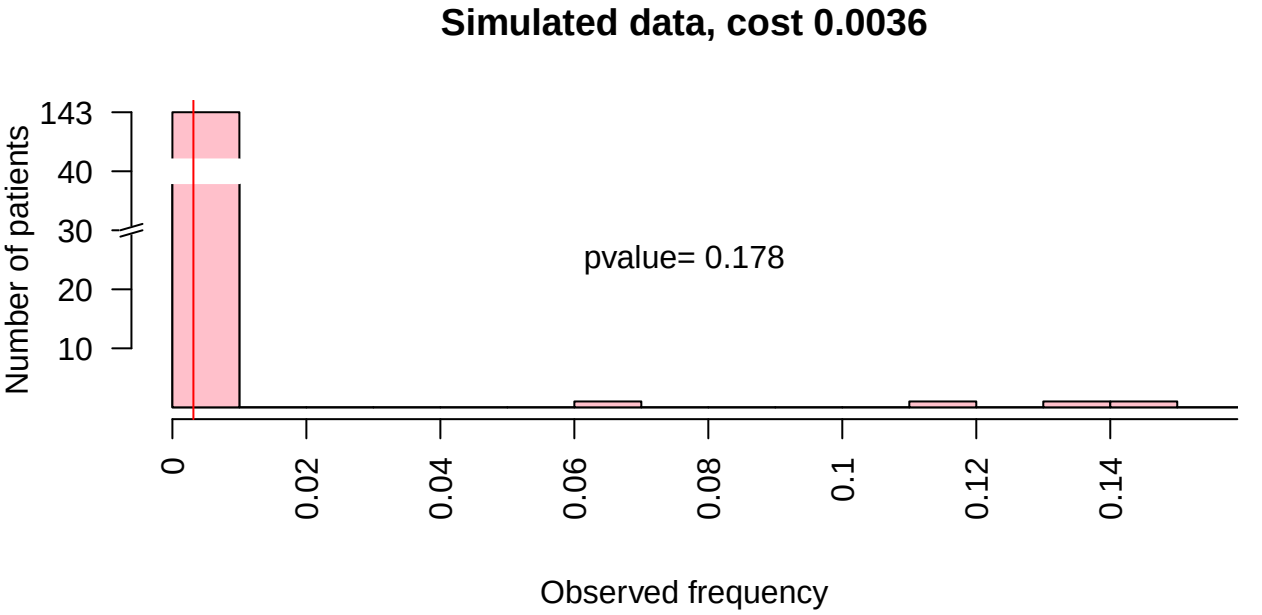

Single−SFS, site 892
Number of patients
146
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
Observed frequency

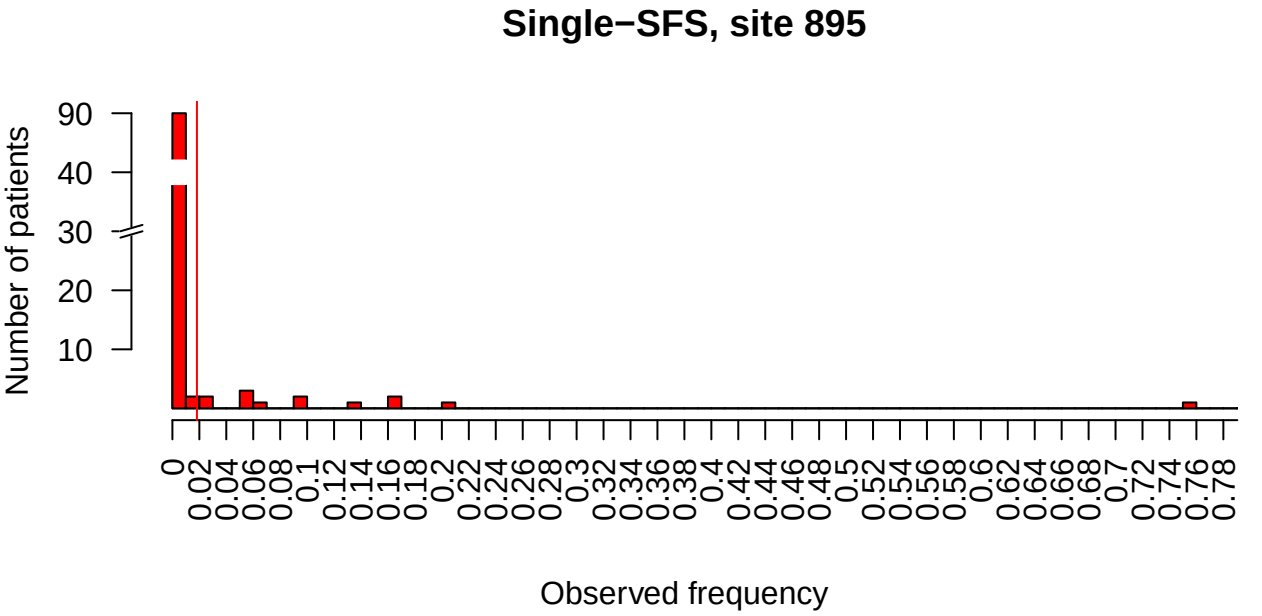

Simulated data, cost 0.005
Number of patients
148
40
30
20
10
pvalue= 0.533
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
Observed frequency

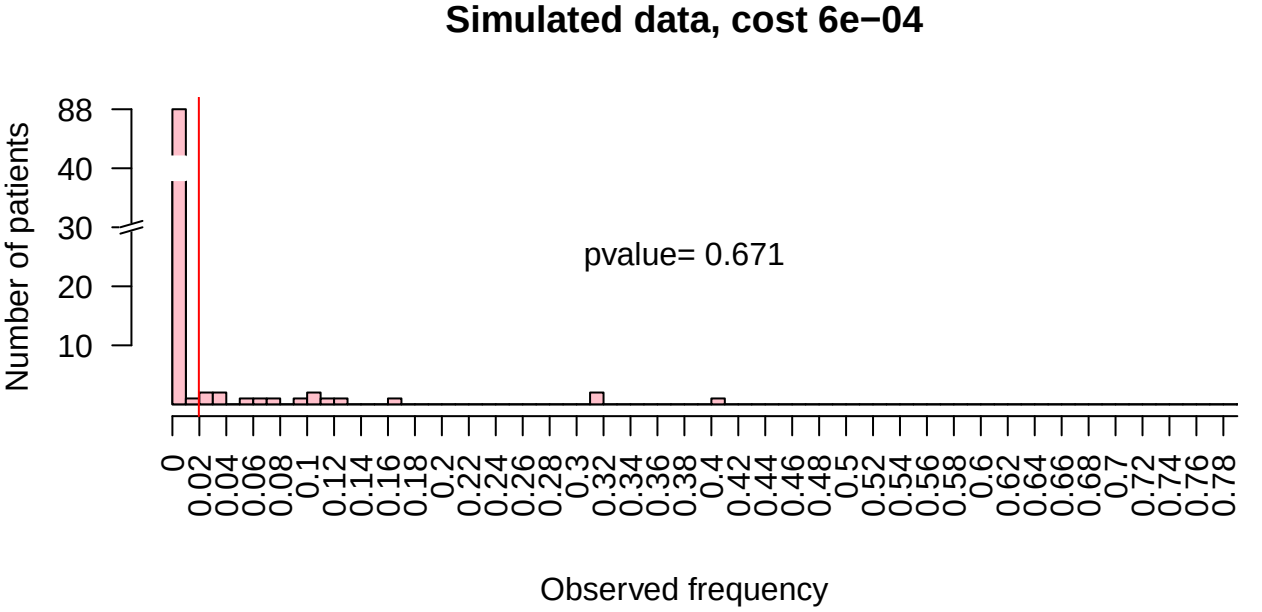

Single−SFS, site 893
Number of patients
150
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
Observed frequency

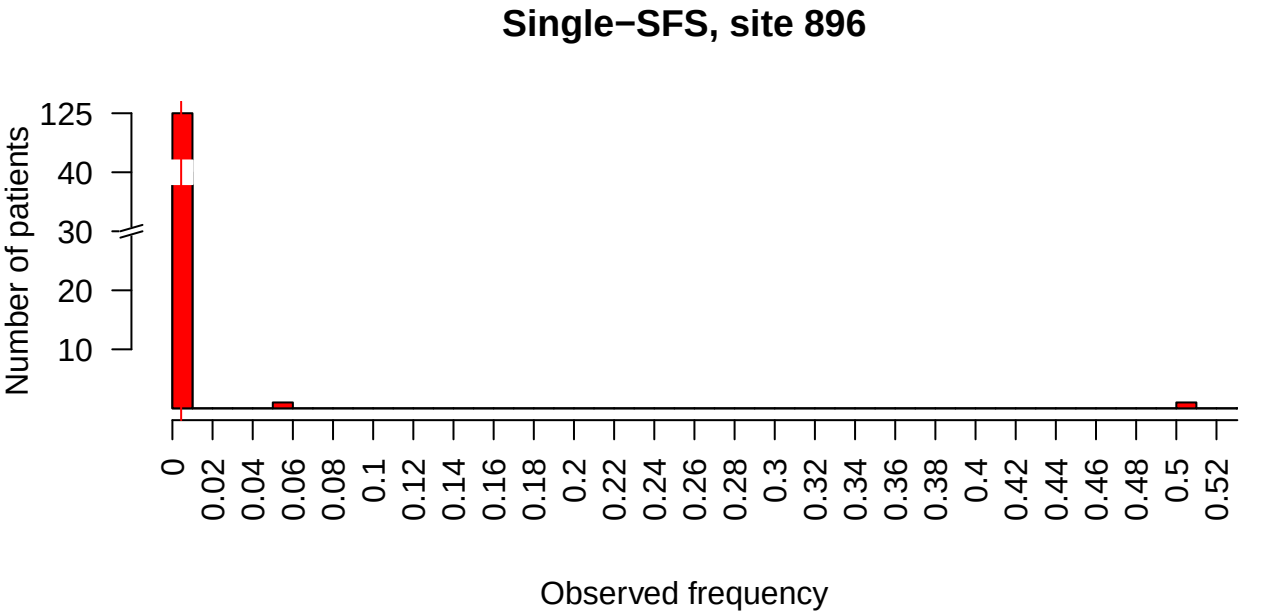

Simulated data, cost 0.0515
Number of patients
151
40
30
20
10
pvalue= 0.708
0
0.02
0.04
0.06
0.08
0.1
Observed frequency

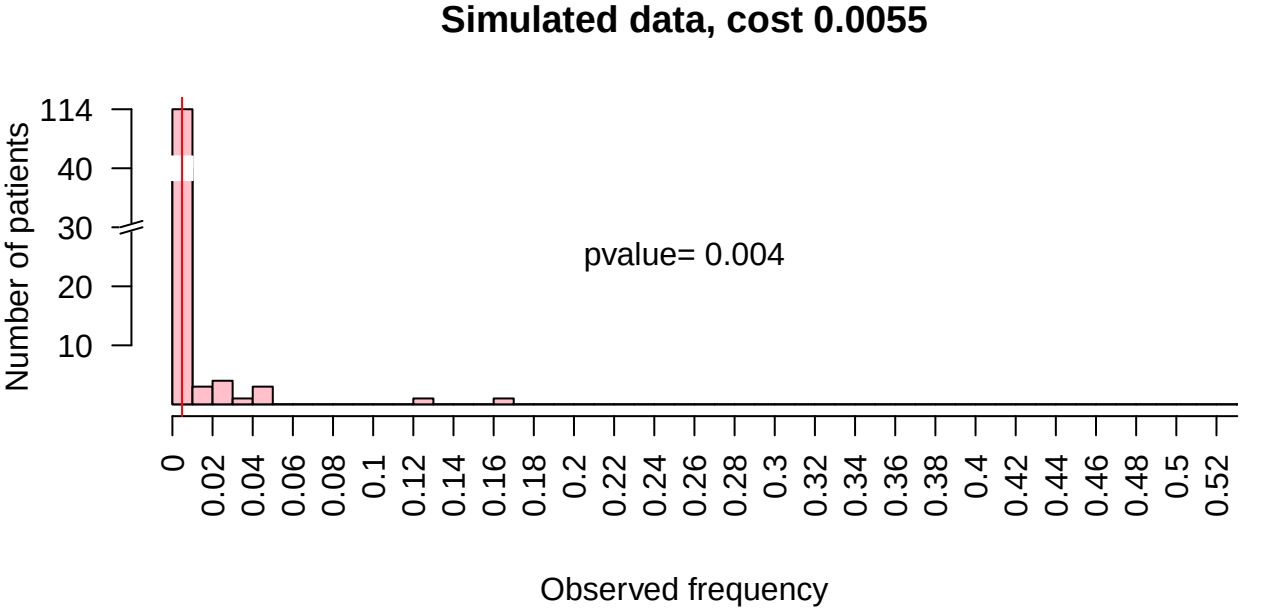

Single−SFS, site 894
Number of patients
138
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
Observed frequency

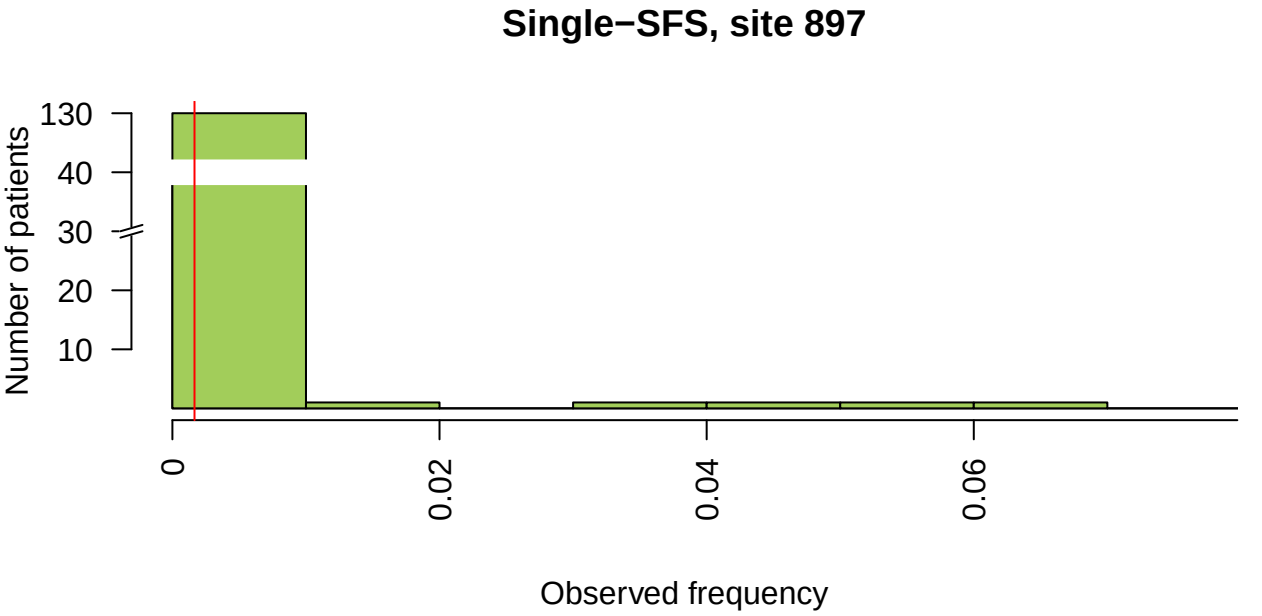

Simulated data, cost 0.0036
Number of patients
143
40
30
20
10
pvalue= 0.178
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
Observed frequency

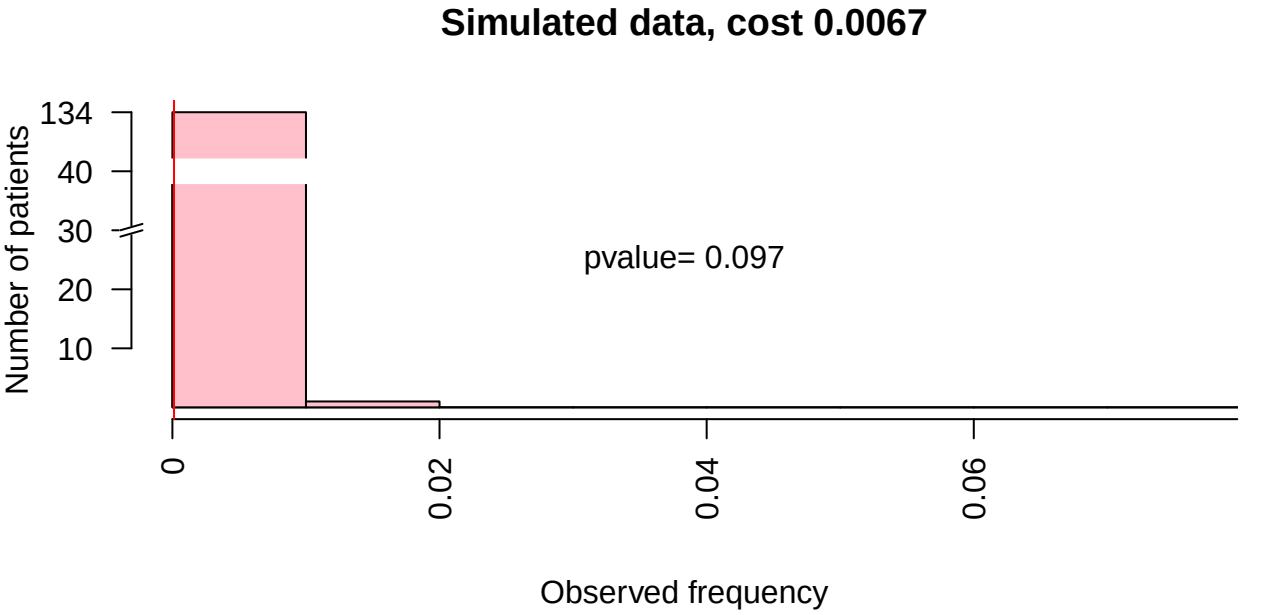

Single−SFS, site 895
Number of patients
90
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
0.24
0.26
0.28
0.3
0.32
0.34
0.36
0.38
0.4
0.42
0.44
0.46
0.48
0.5
0.52
0.54
0.56
0.58
0.6
0.62
0.64
0.66
0.68
0.7
0.72
0.74
0.76
0.78
Observed frequency

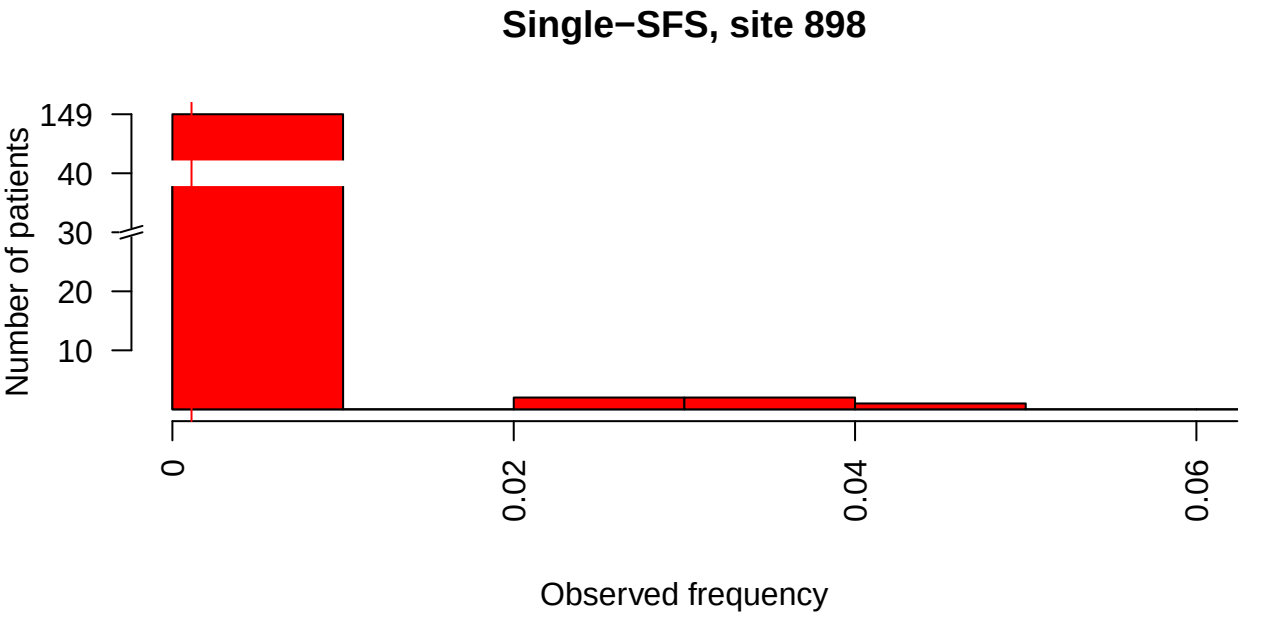

Simulated data, cost 6e−04
Number of patients
88
40
30
20
10
pvalue= 0.671
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
0.24
0.26
0.28
0.3
0.32
0.34
0.36
0.38
0.4
0.42
0.44
0.46
0.48
0.5
0.52
0.54
0.56
0.58
0.6
0.62
0.64
0.66
0.68
0.7
0.72
0.74
0.76
0.78
Observed frequency

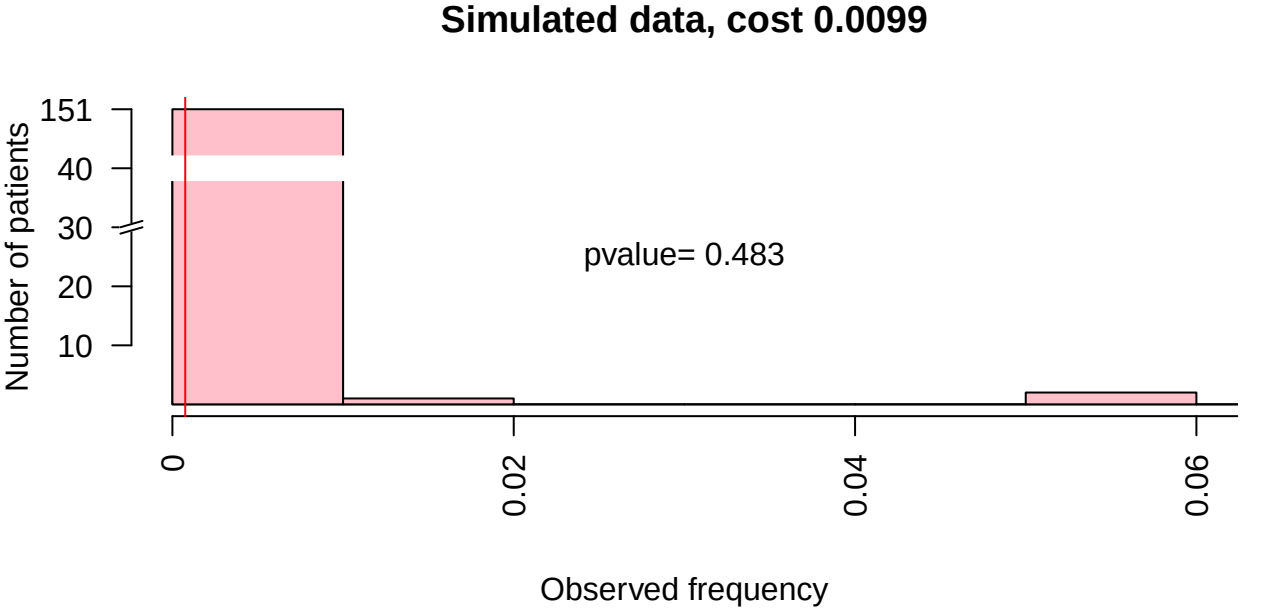

Single−SFS, site 896
Number of patients
125
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
0.24
0.26
0.28
0.3
0.32
0.34
0.36
0.38
0.4
0.42
0.44
0.46
0.48
0.5
0.52
Observed frequency

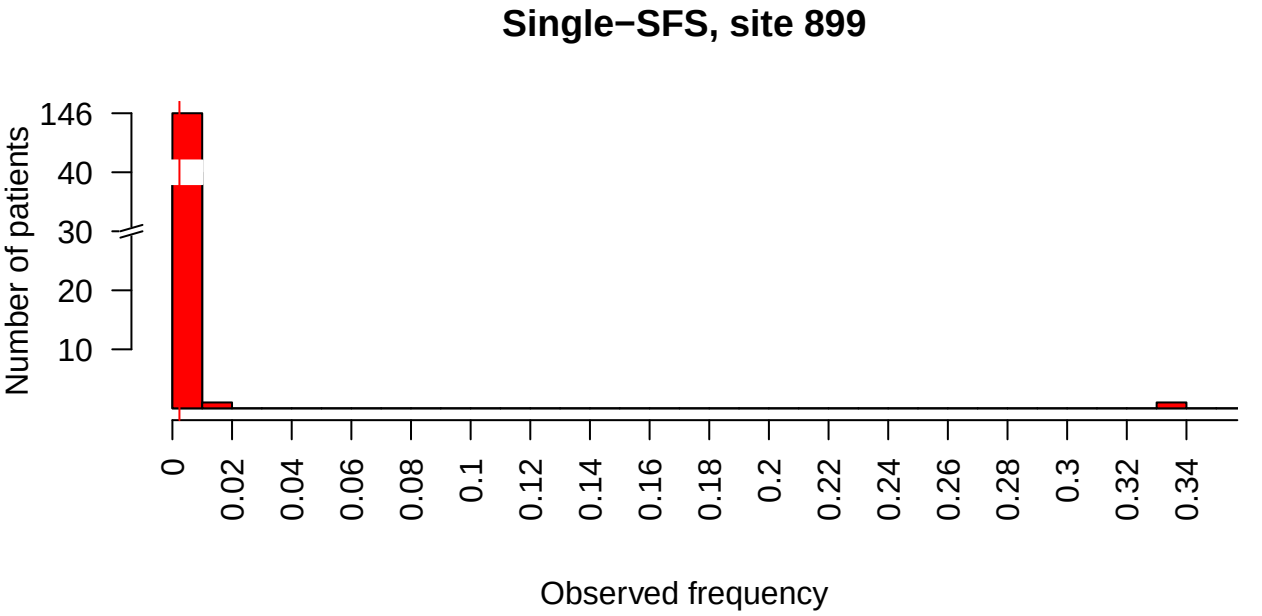

Simulated data, cost 0.0055
Number of patients
114
40
30
20
10
pvalue= 0.004
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
0.24
0.26
0.28
0.3
0.32
0.34
0.36
0.38
0.4
0.42
0.44
0.46
0.48
0.5
0.52
Observed frequency

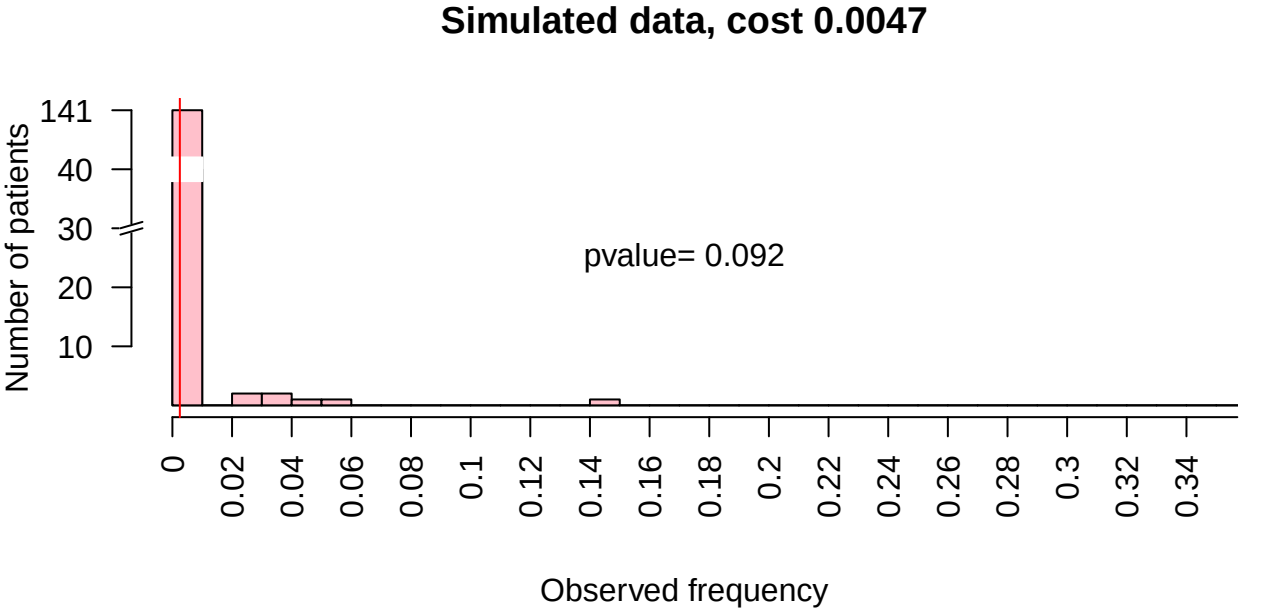

Single−SFS, site 897
Number of patients
130
40
30
20
10
0
0.02
0.04
0.06
Observed frequency

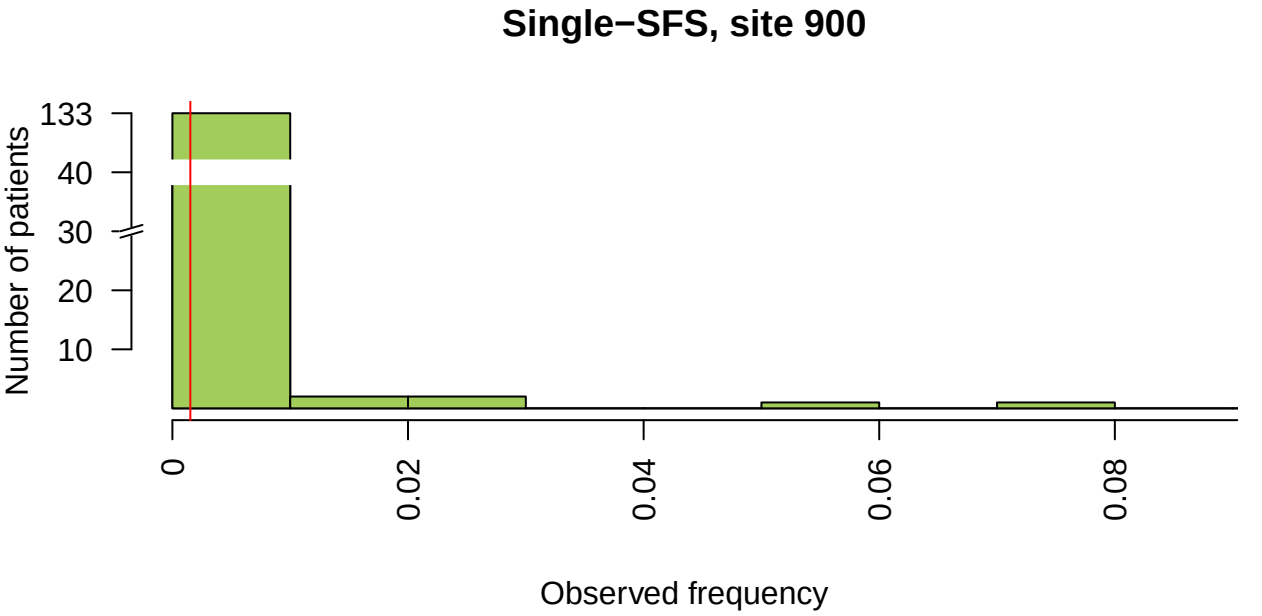

Simulated data, cost 0.0067
Number of patients
134
40
30
20
10
pvalue= 0.097
0
0.02
0.04
0.06
Observed frequency

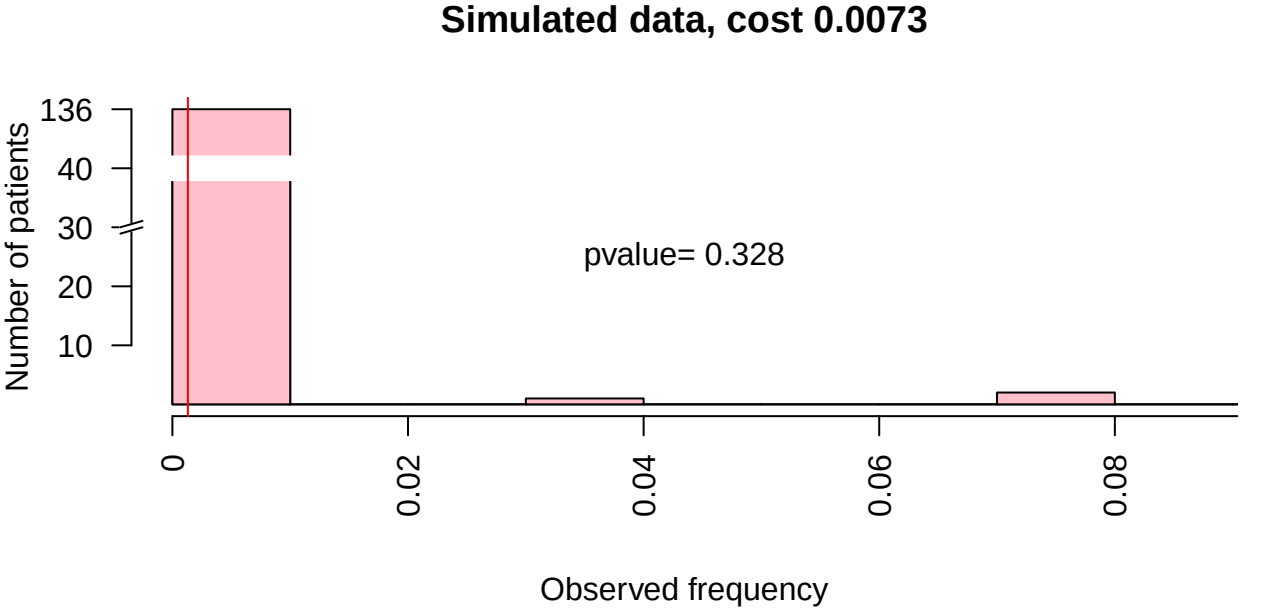

Single−SFS, site 898
Number of patients
149
40
30
20
10
0
0.02
0.04
0.06
Observed frequency

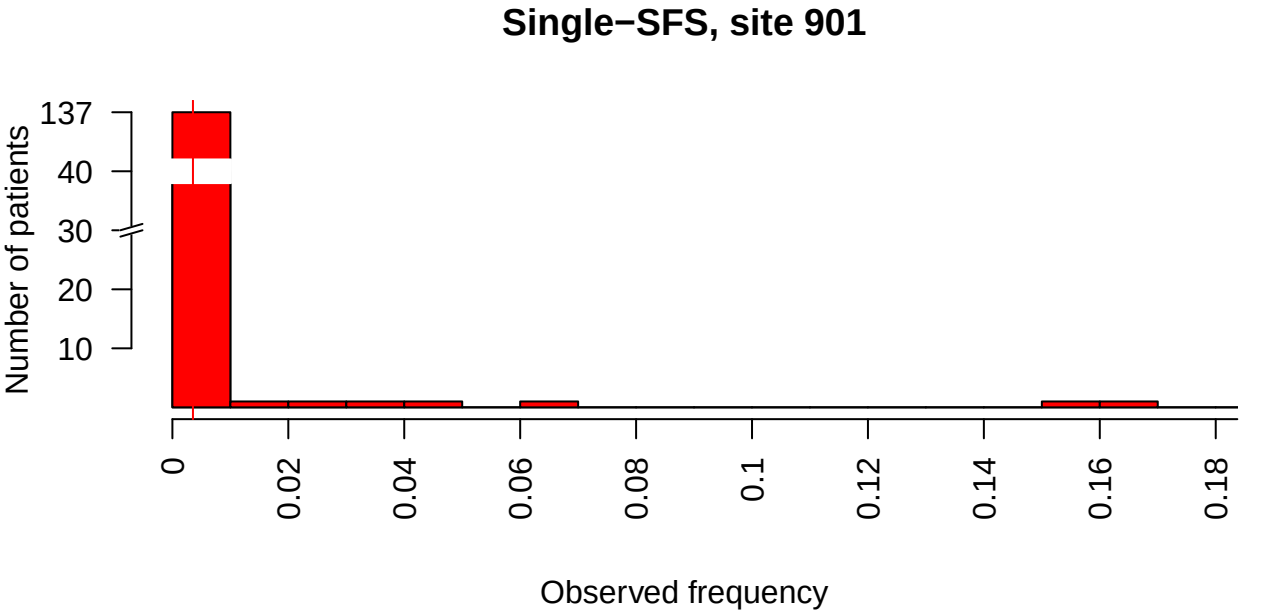

Simulated data, cost 0.0099
Number of patients
151
40
30
20
10
pvalue= 0.483
0
0.02
0.04
0.06
Observed frequency

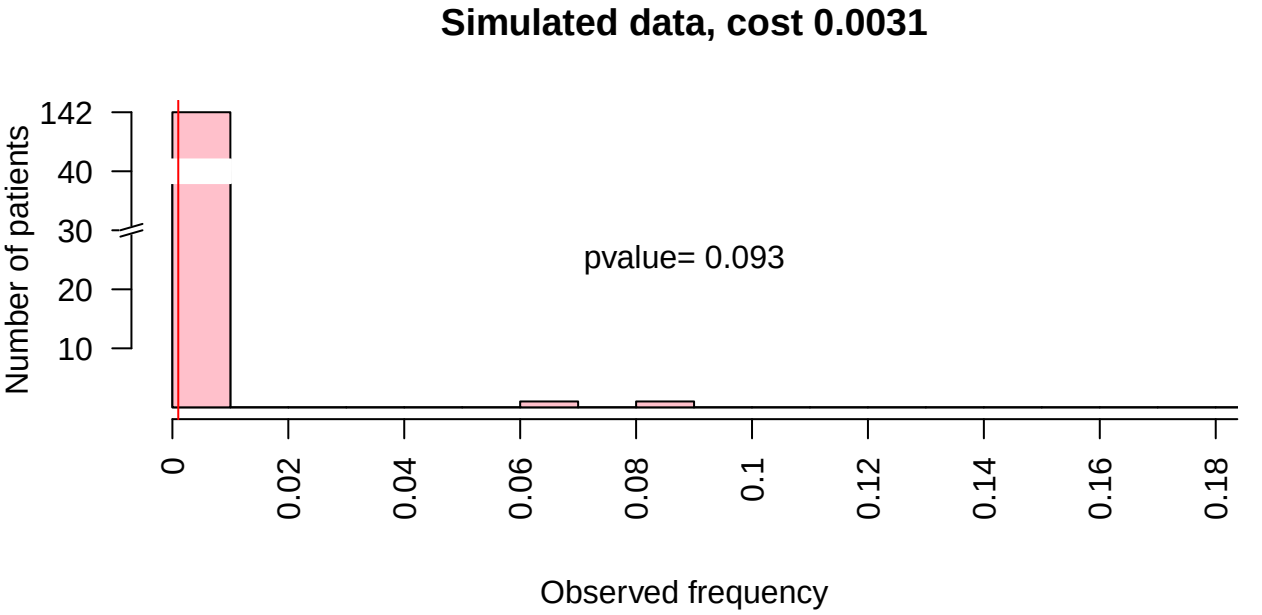

Single−SFS, site 899
Number of patients
146
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
0.24
0.26
0.28
0.3
0.32
0.34
Observed frequency

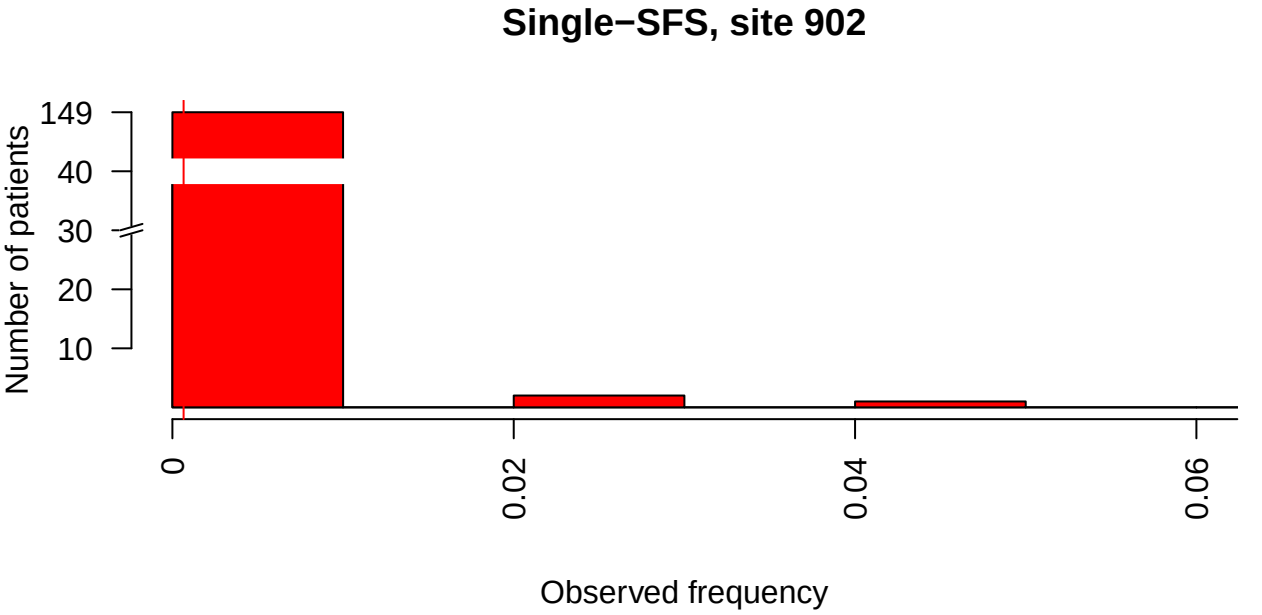

Simulated data, cost 0.0047
Number of patients
141
40
30
20
10
pvalue= 0.092
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
0.24
0.26
0.28
0.3
0.32
0.34
Observed frequency

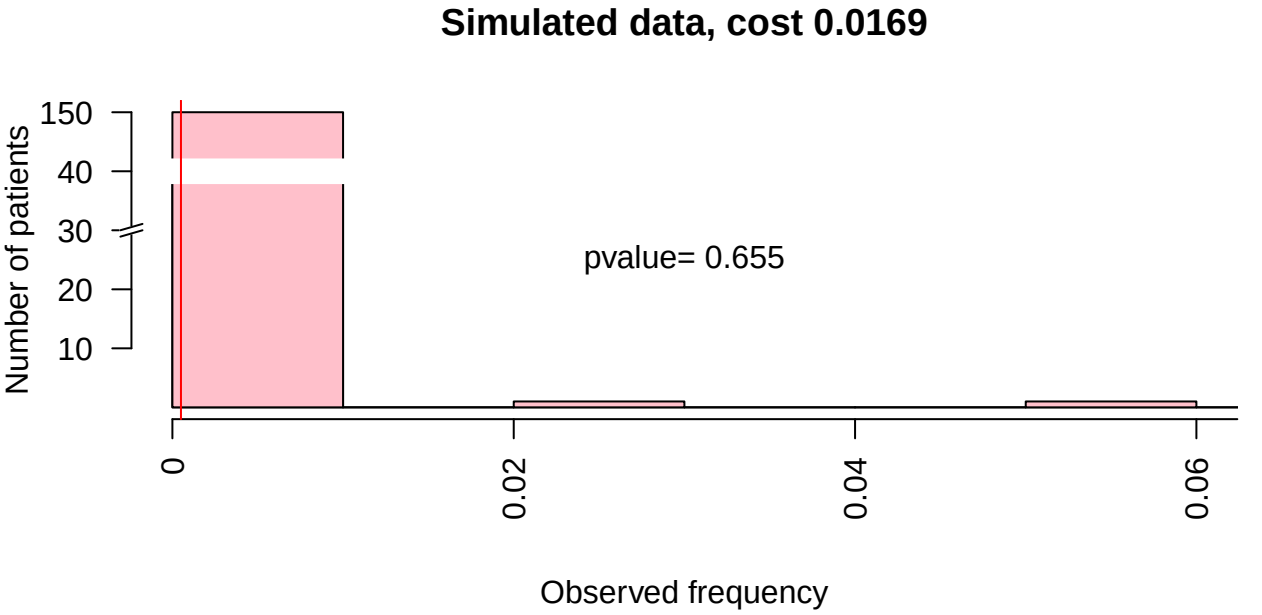

Single−SFS, site 900
Number of patients
133
40
30
20
10
0
0.02
0.04
0.06
0.08
Observed frequency

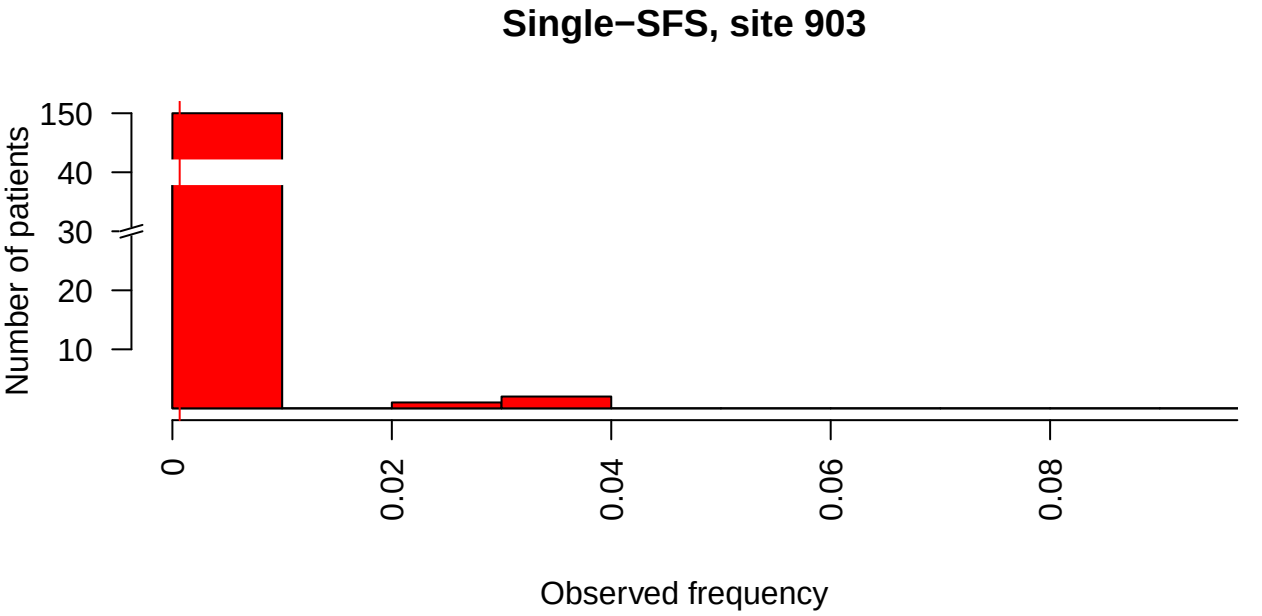

Simulated data, cost 0.0073
Number of patients
136
40
30
20
10
pvalue= 0.328
0
0.02
0.04
0.06
0.08
Observed frequency

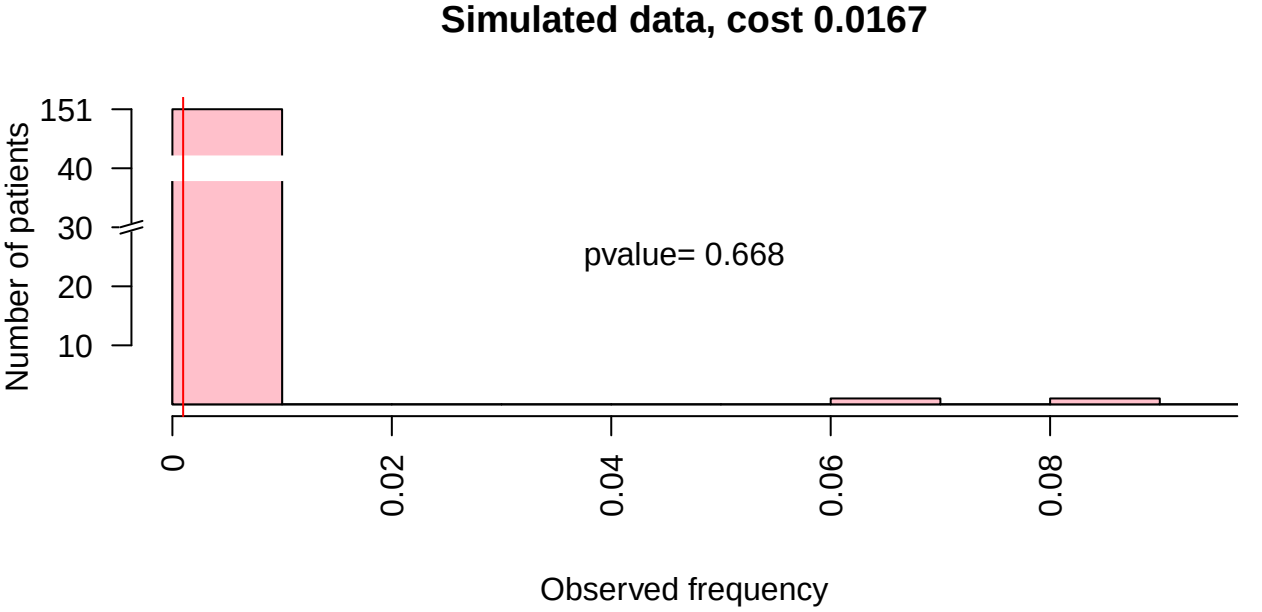

Single−SFS, site 901
Number of patients
137
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
Observed frequency

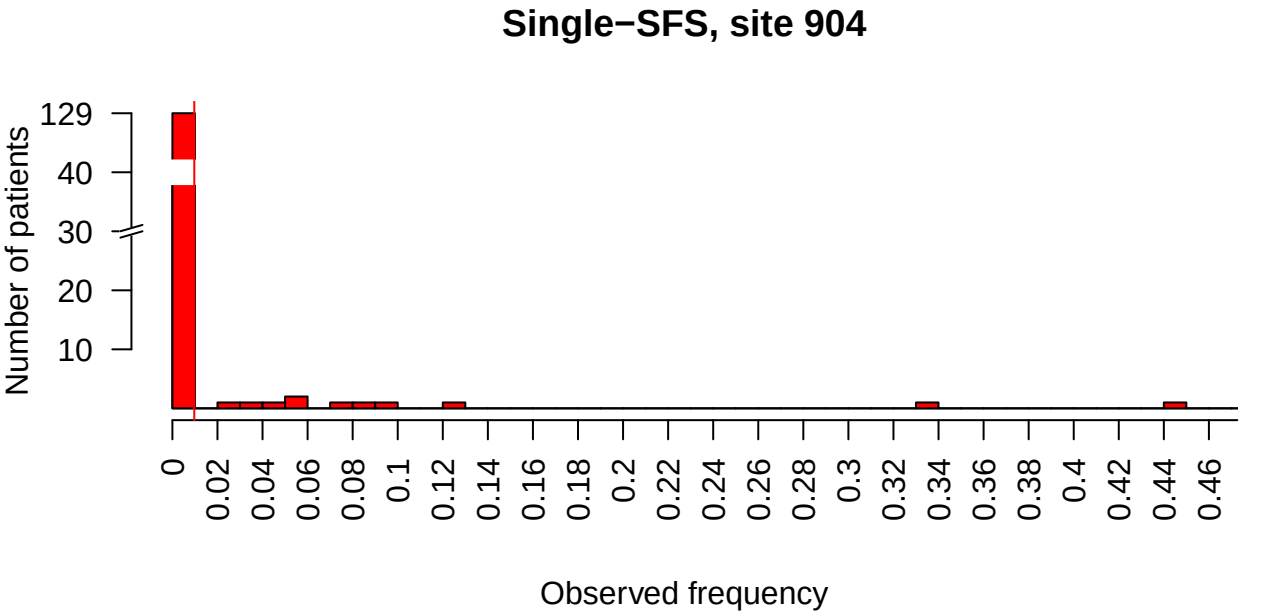

Simulated data, cost 0.0031
Number of patients
142
40
30
20
10
pvalue= 0.093
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
Observed frequency

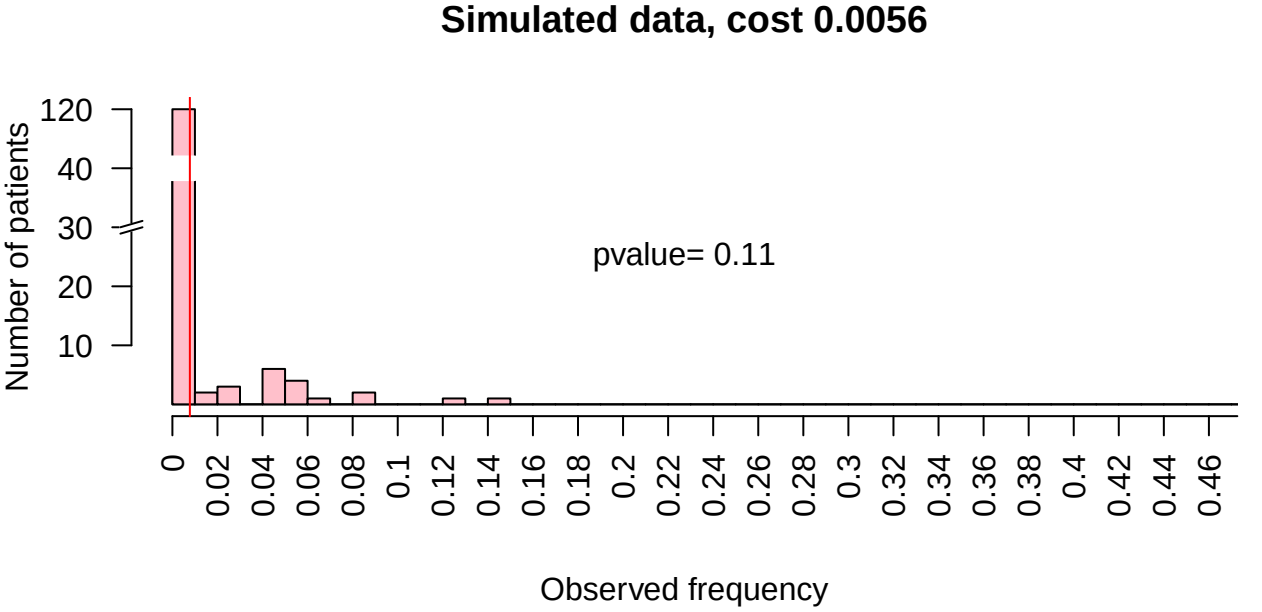

Single−SFS, site 902
Number of patients
149
40
30
20
10
0
0.02
0.04
0.06
Observed frequency

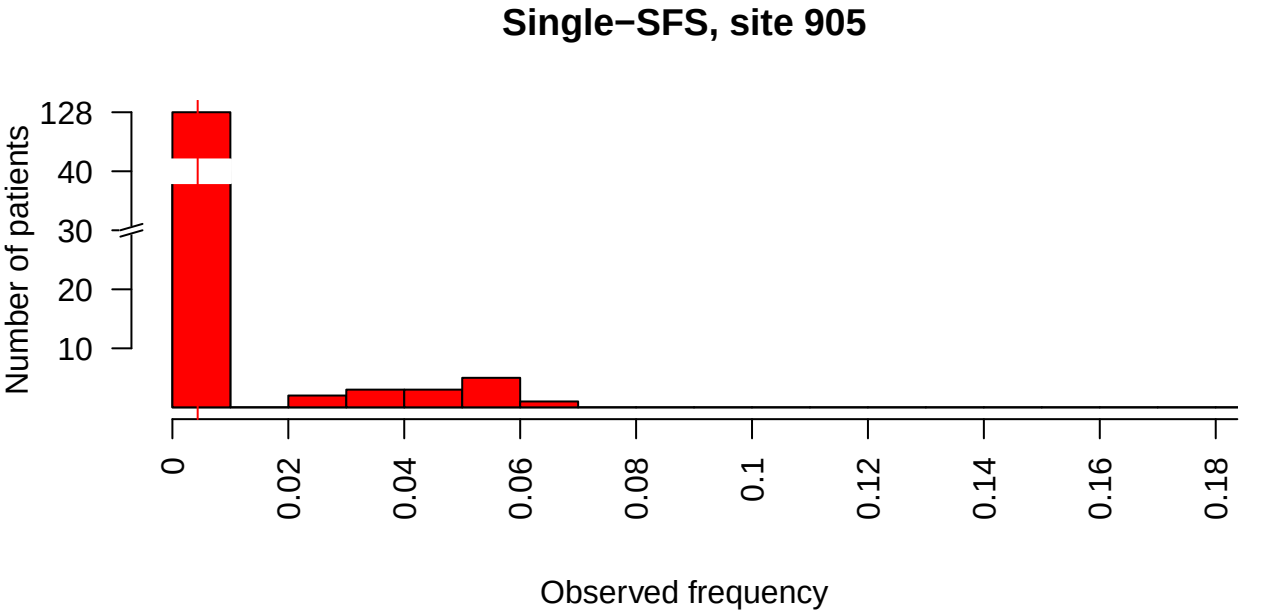

Simulated data, cost 0.0169
Number of patients
150
40
30
20
10
pvalue= 0.655
0
0.02
0.04
0.06
Observed frequency

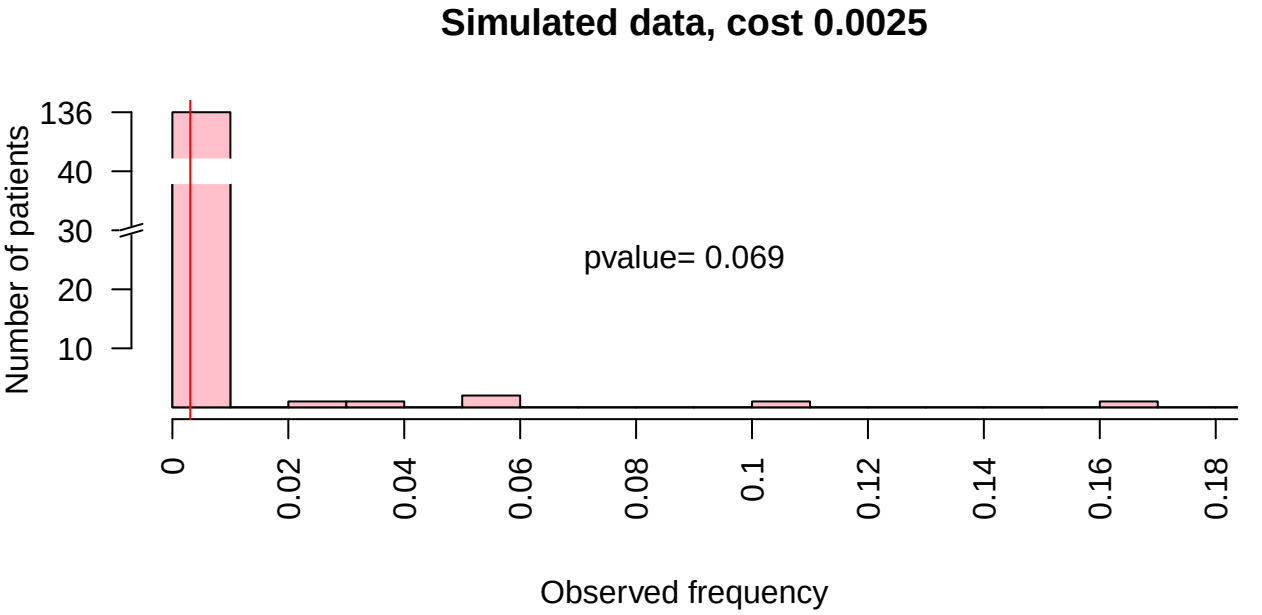

Single−SFS, site 903
Number of patients
150
40
30
20
10
0
0.02
0.04
0.06
0.08
Observed frequency

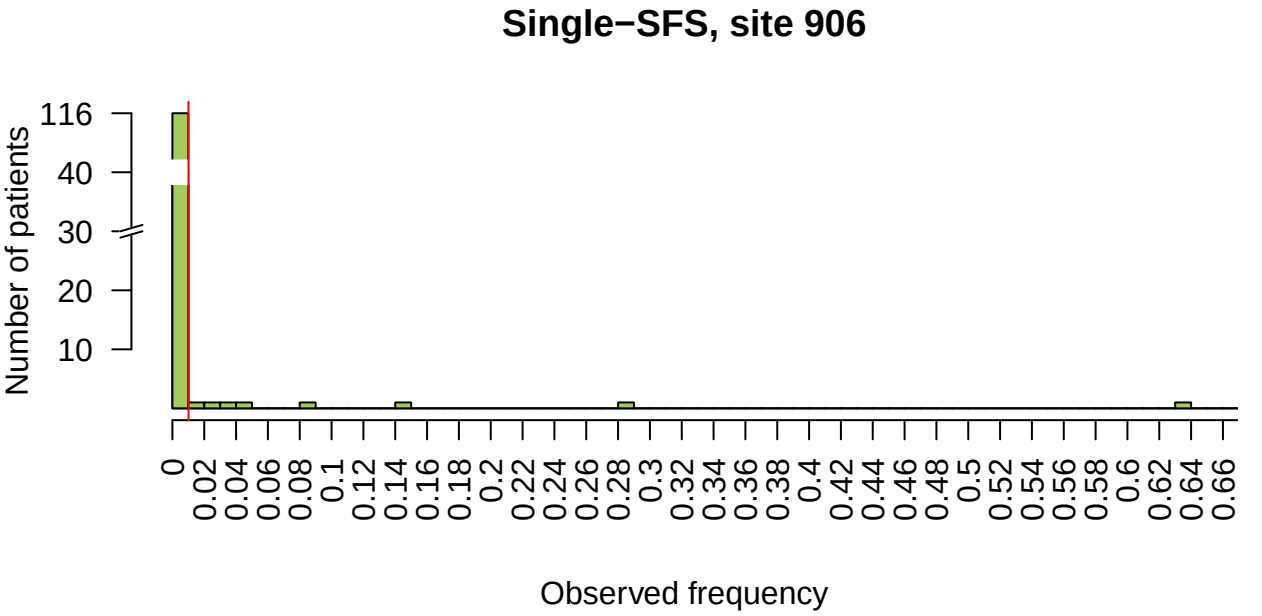

Simulated data, cost 0.0167
Number of patients
151
40
30
20
10
pvalue= 0.668
0
0.02
0.04
0.06
0.08
Observed frequency

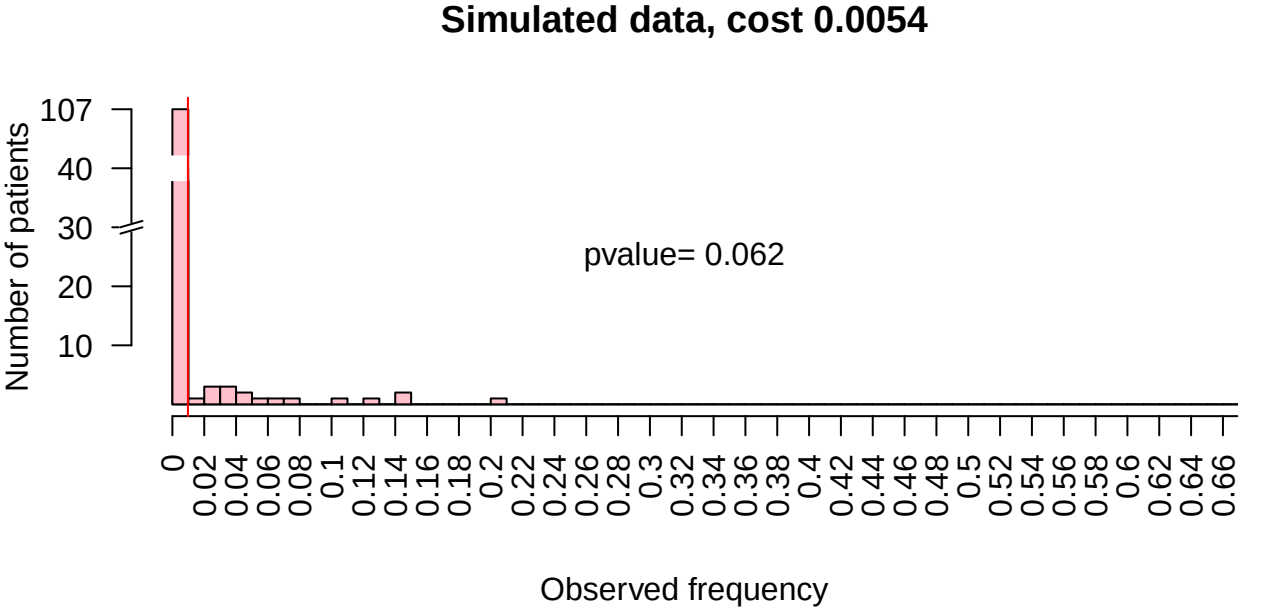

Single−SFS, site 904
Number of patients
129
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
0.24
0.26
0.28
0.3
0.32
0.34
0.36
0.38
0.4
0.42
0.44
0.46
Observed frequency

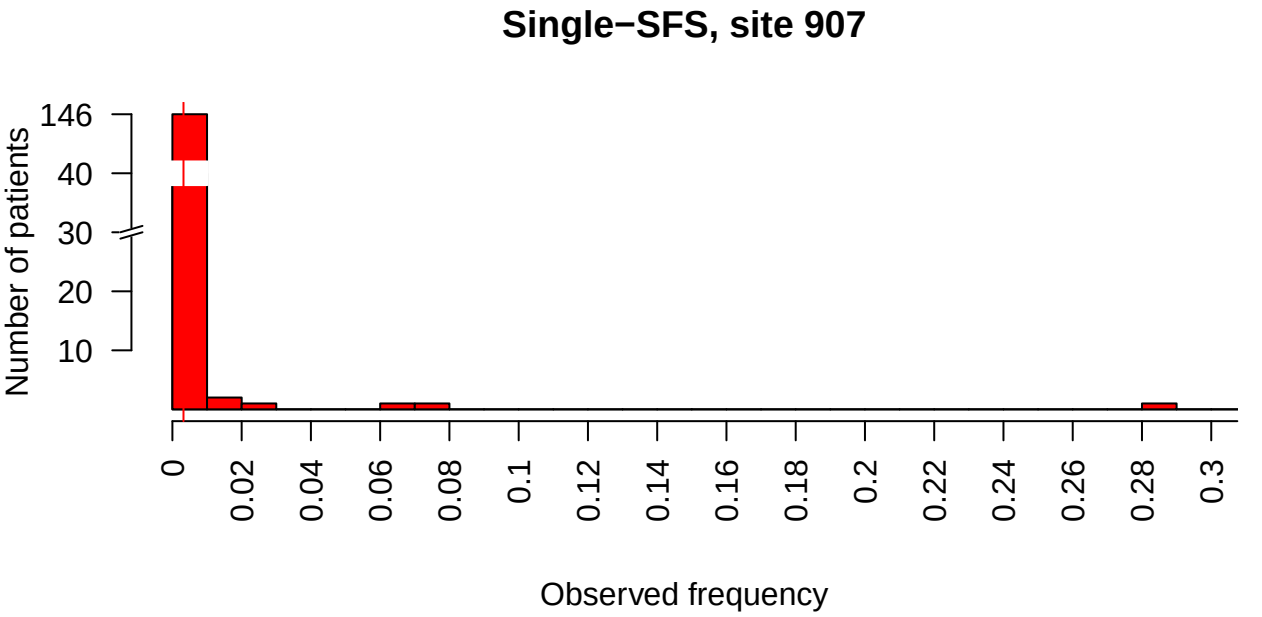

Simulated data, cost 0.0056
Number of patients
120
40
30
20
10
pvalue= 0.11
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
0.24
0.26
0.28
0.3
0.32
0.34
0.36
0.38
0.4
0.42
0.44
0.46
Observed frequency

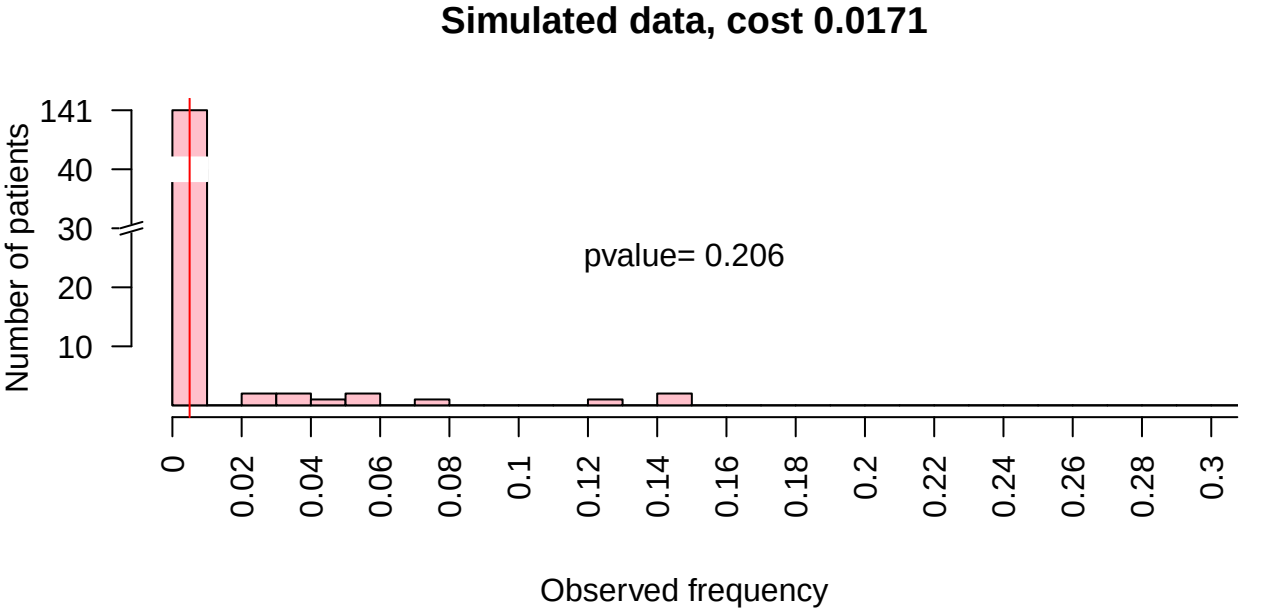

Single−SFS, site 905
Number of patients
128
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
Observed frequency

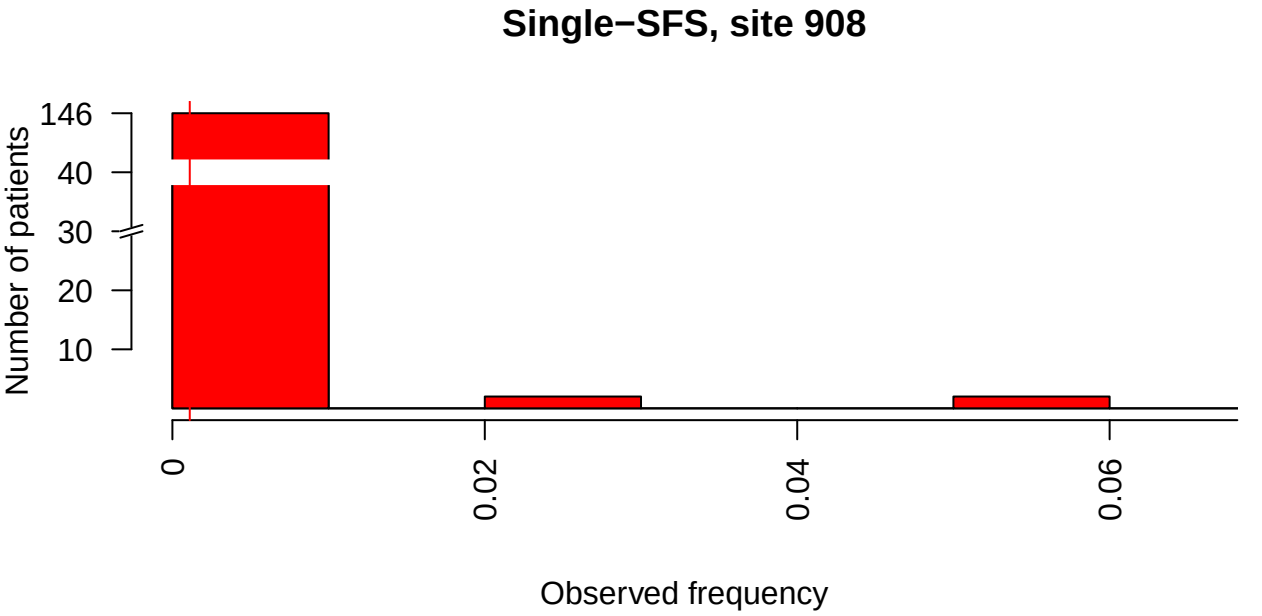

Simulated data, cost 0.0025
Number of patients
136
40
30
20
10
pvalue= 0.069
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
Observed frequency

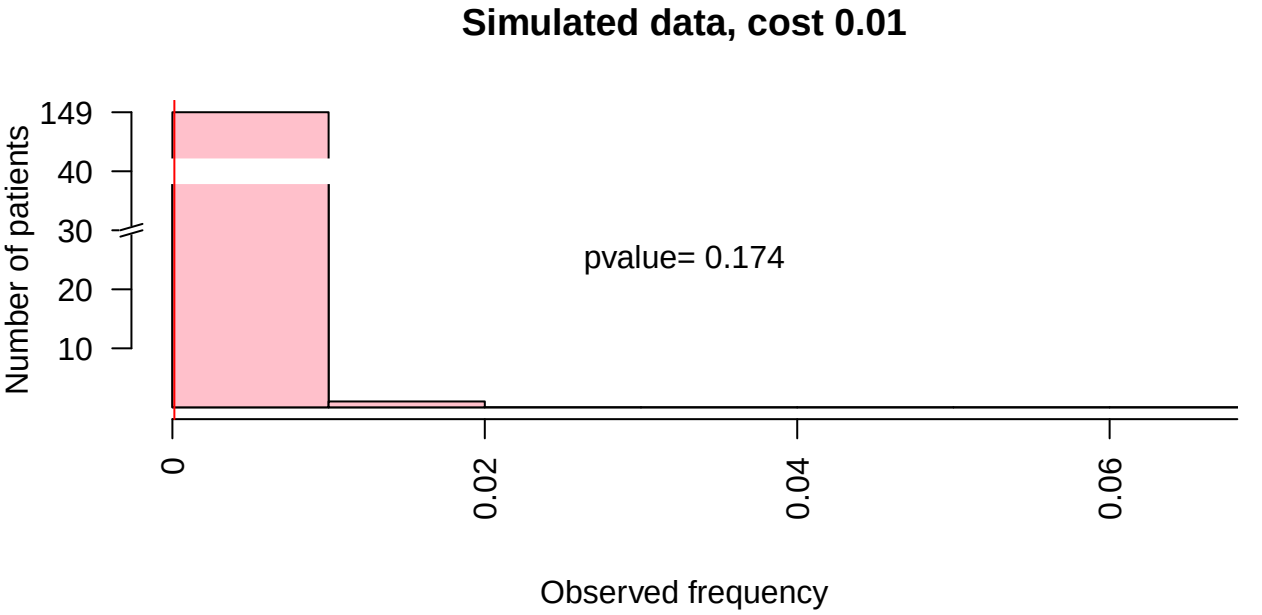

Single−SFS, site 906
Number of patients
116
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
0.24
0.26
0.28
0.3
0.32
0.34
0.36
0.38
0.4
0.42
0.44
0.46
0.48
0.5
0.52
0.54
0.56
0.58
0.6
0.62
0.64
0.66
Observed frequency

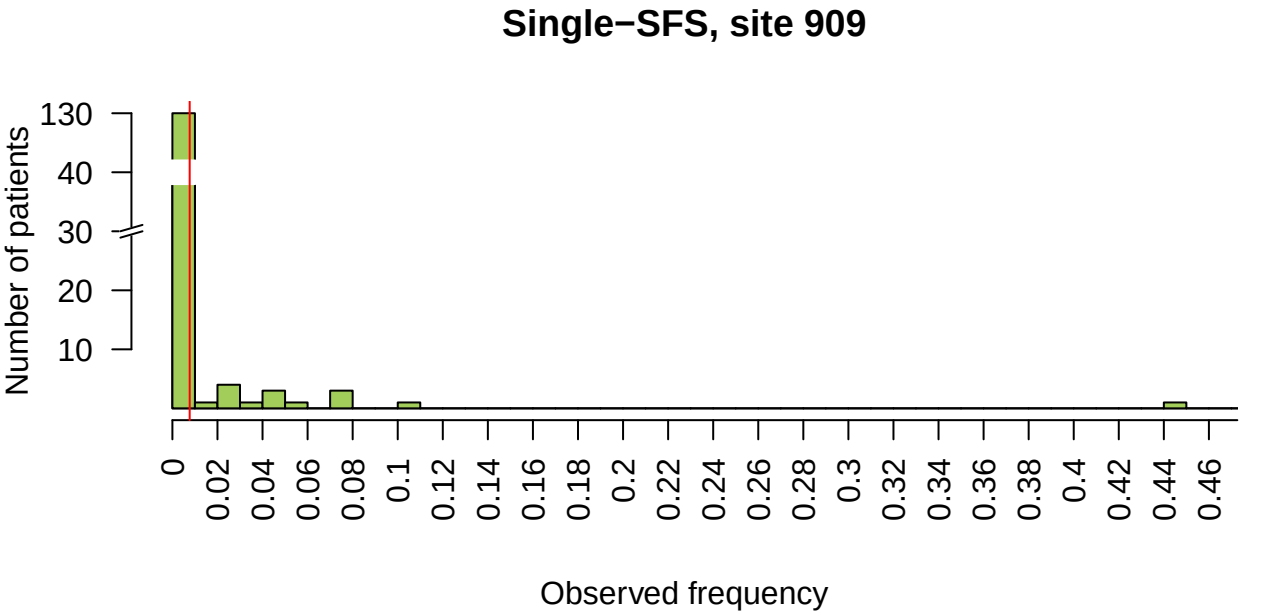

Simulated data, cost 0.0054
Number of patients
107
40
30
20
10
pvalue= 0.062
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
0.24
0.26
0.28
0.3
0.32
0.34
0.36
0.38
0.4
0.42
0.44
0.46
0.48
0.5
0.52
0.54
0.56
0.58
0.6
0.62
0.64
0.66
Observed frequency

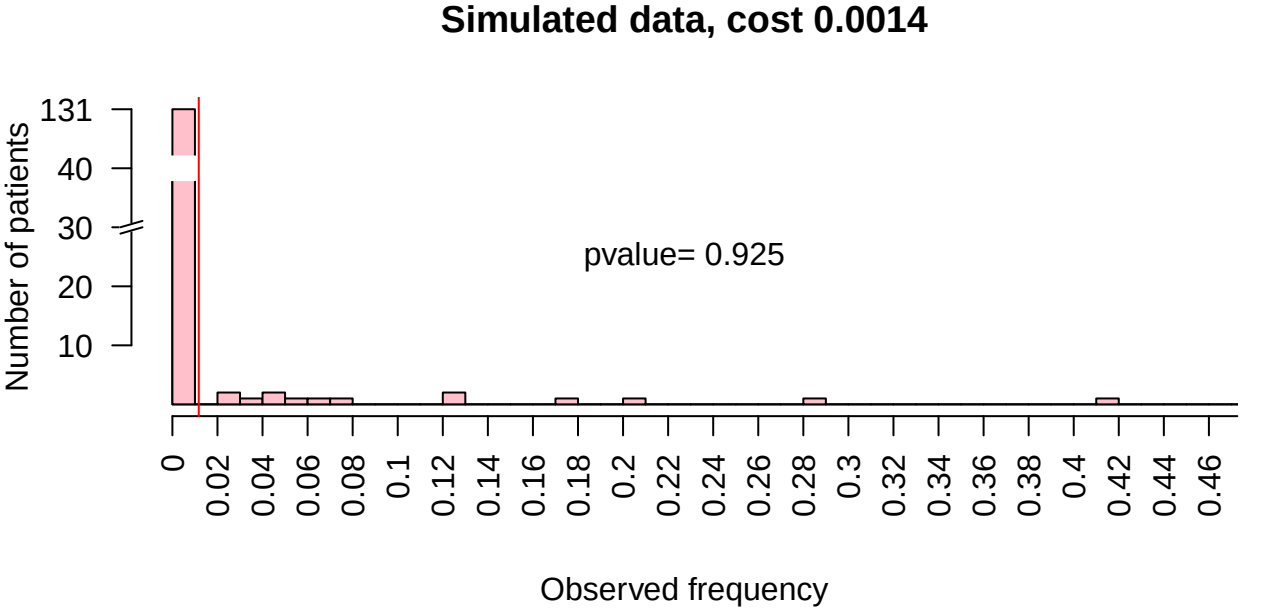

Single−SFS, site 907
Number of patients
146
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
0.24
0.26
0.28
0.3
Observed frequency

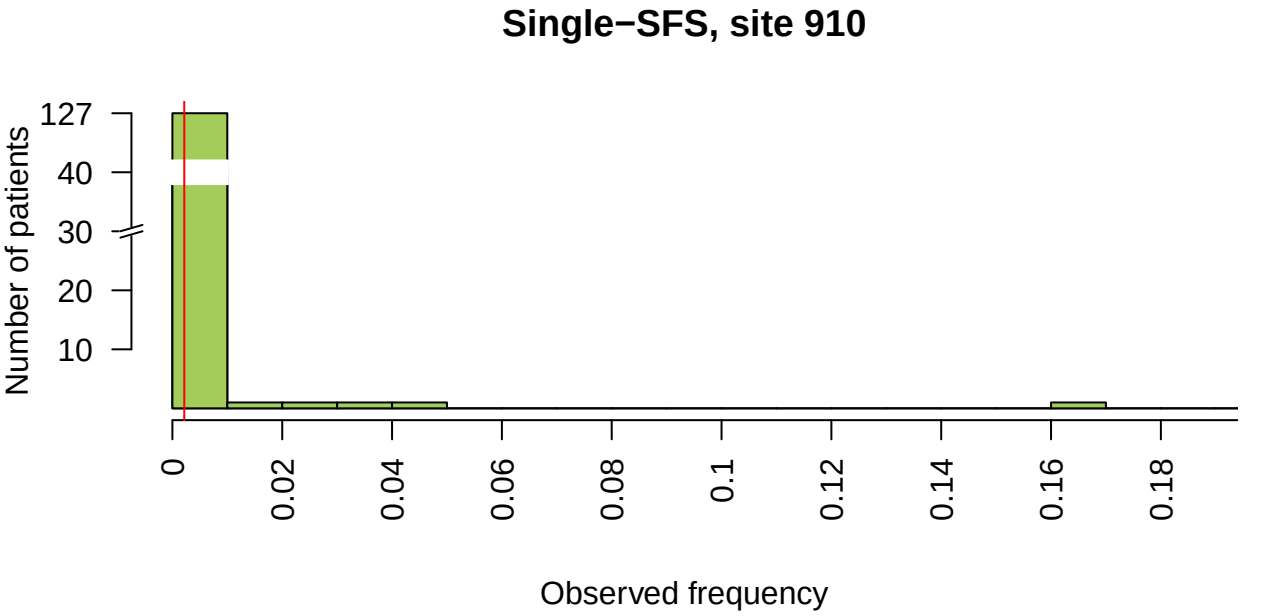

Simulated data, cost 0.0171
Number of patients
141
40
30
20
10
pvalue= 0.206
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
0.24
0.26
0.28
0.3
Observed frequency

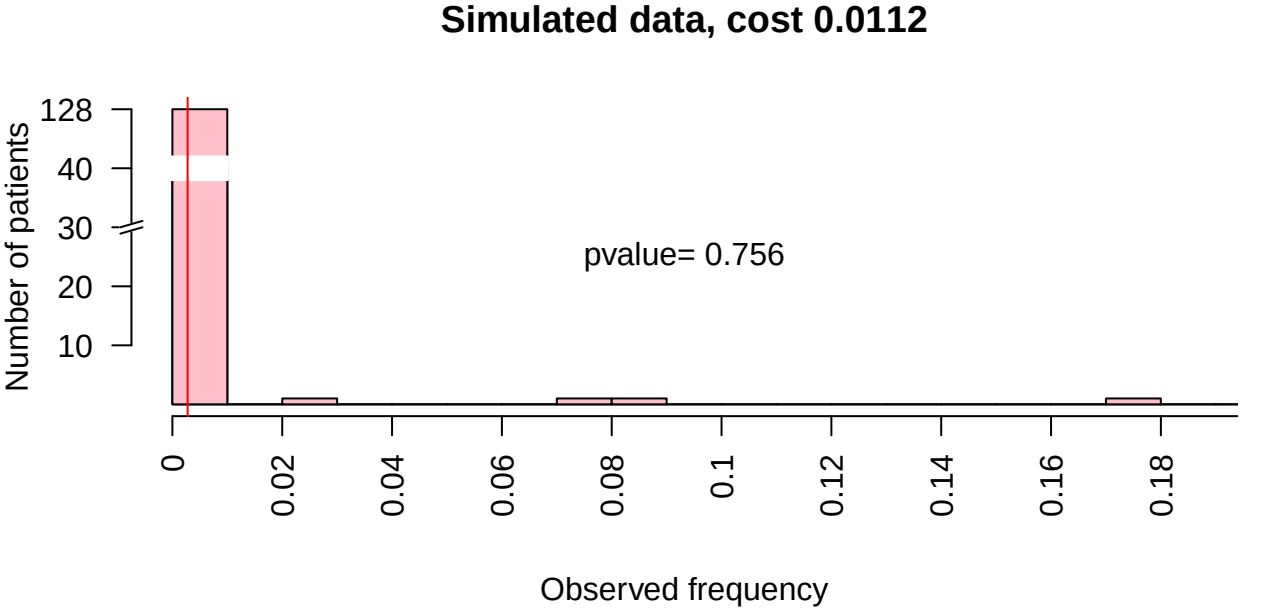

Single−SFS, site 908
Number of patients
146
40
30
20
10
0
0.02
0.04
0.06
Observed frequency

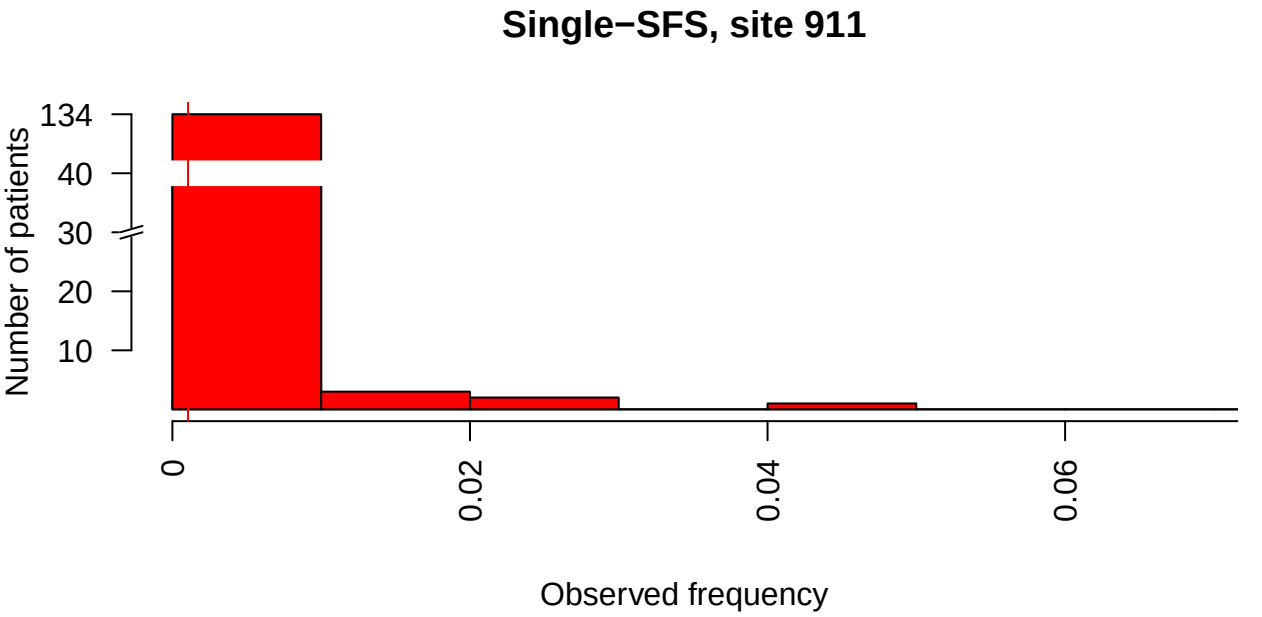

Simulated data, cost 0.01
Number of patients
149
40
30
20
10
pvalue= 0.174
0
0.02
0.04
0.06
Observed frequency

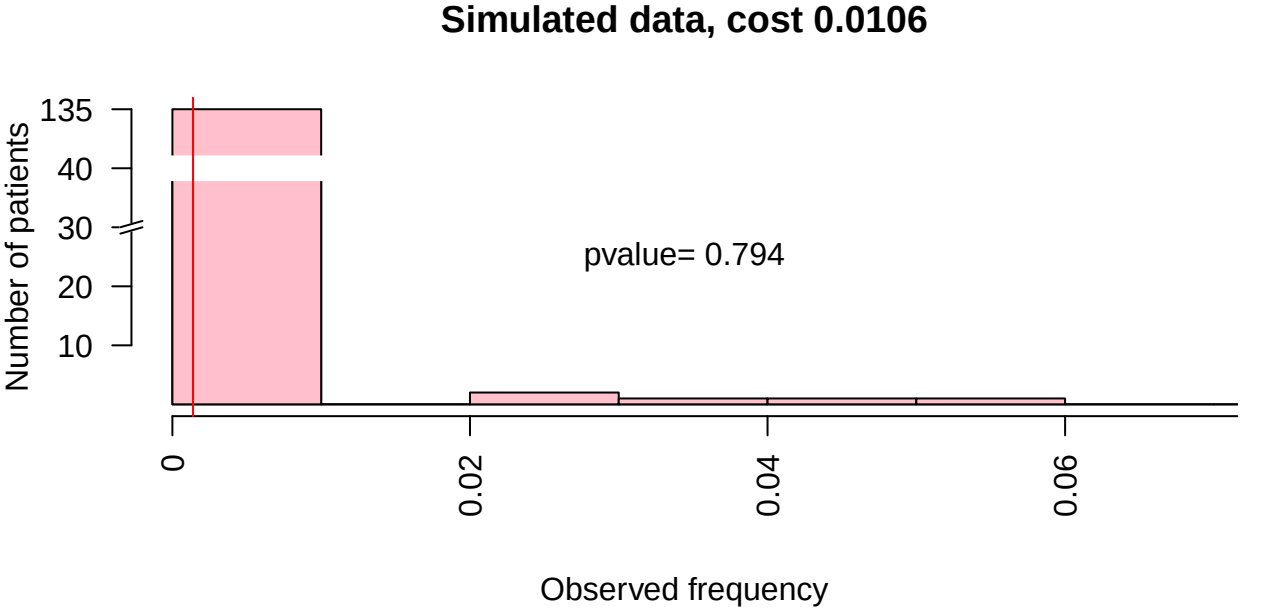

Single−SFS, site 909
Number of patients
130
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
0.24
0.26
0.28
0.3
0.32
0.34
0.36
0.38
0.4
0.42
0.44
0.46
Observed frequency

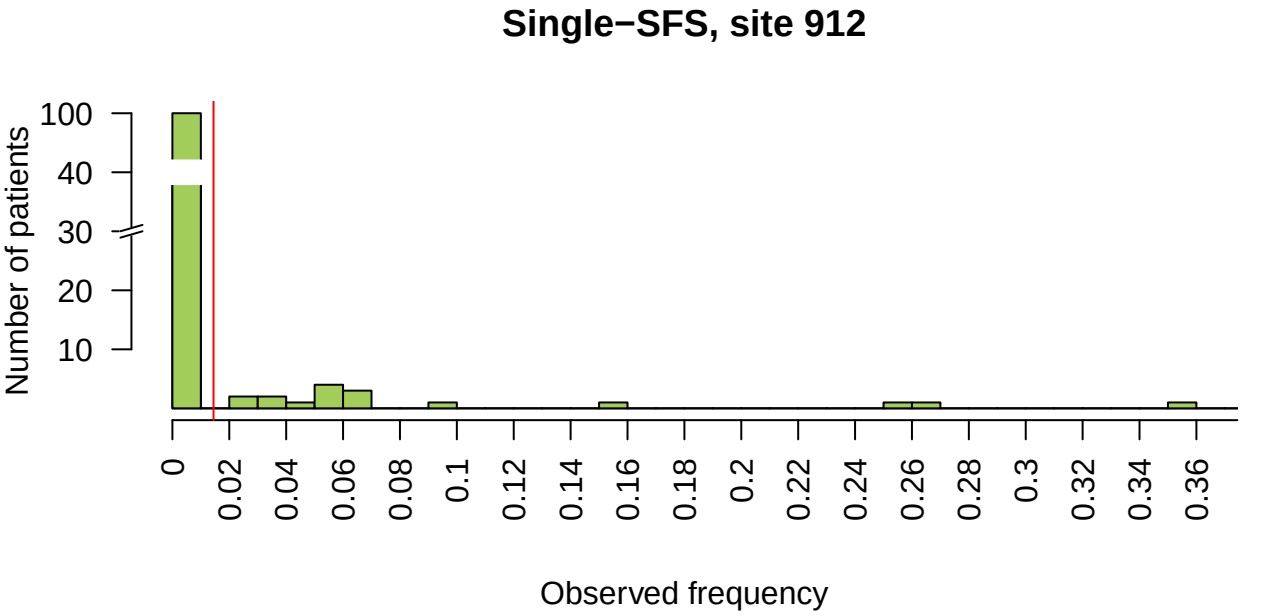

Simulated data, cost 0.0014
Number of patients
131
40
30
20
10
pvalue= 0.925
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
0.24
0.26
0.28
0.3
0.32
0.34
0.36
0.38
0.4
0.42
0.44
0.46
Observed frequency

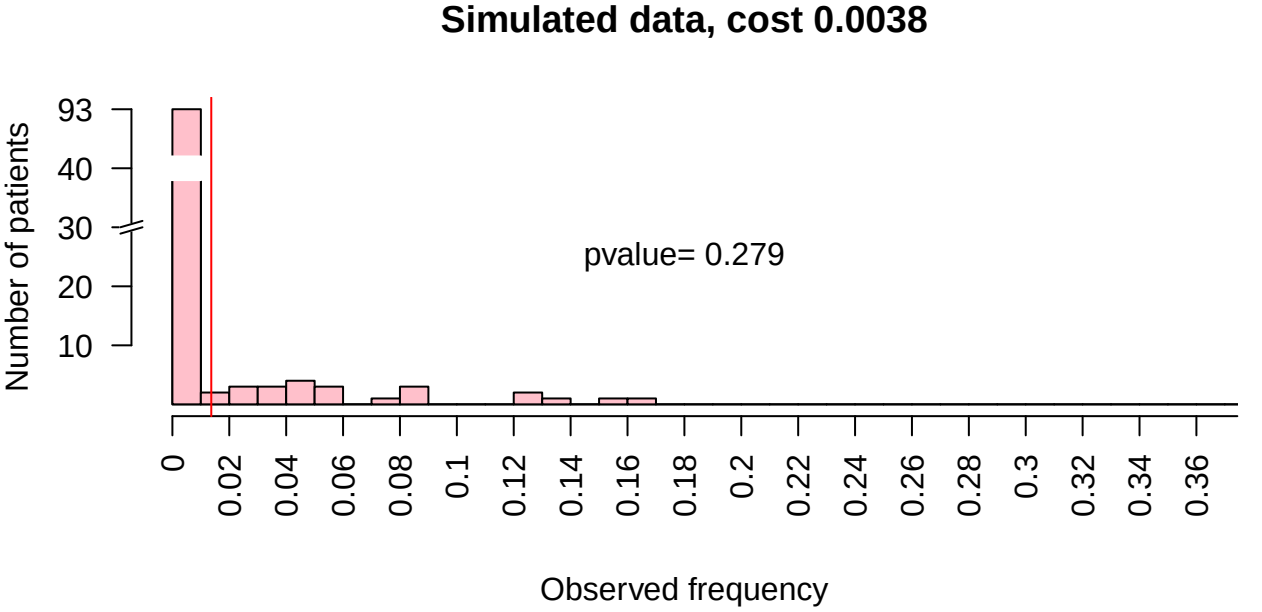

Single−SFS, site 910
Number of patients
127
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
Observed frequency

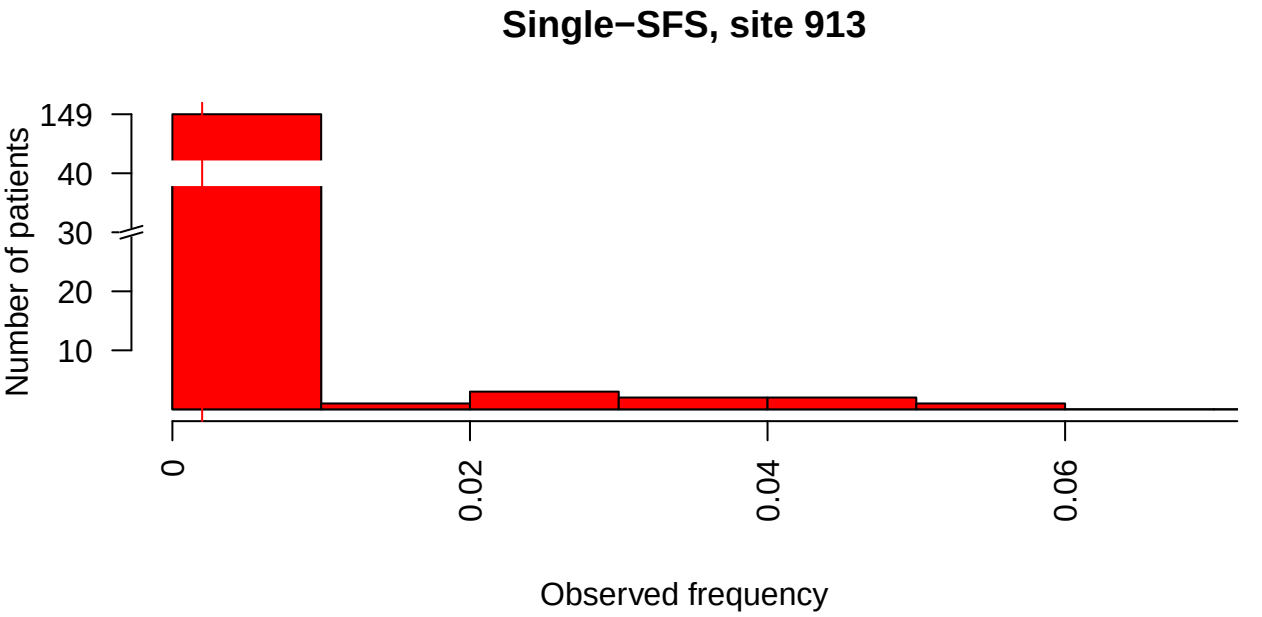

Simulated data, cost 0.0112
Number of patients
128
40
30
20
10
pvalue= 0.756
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
Observed frequency

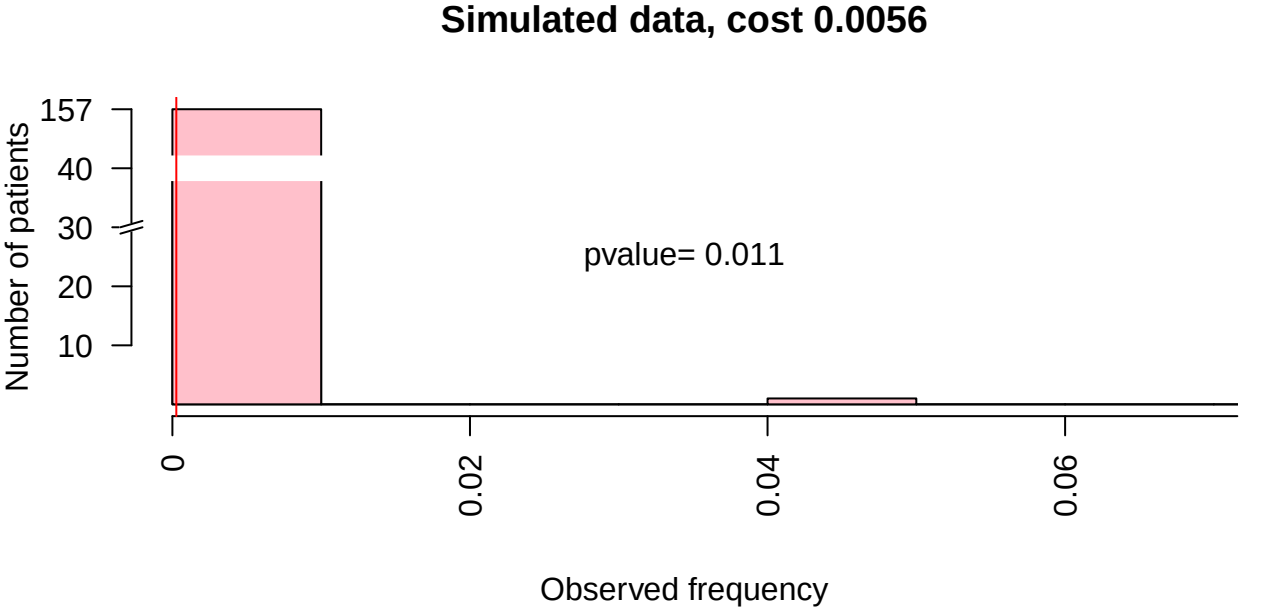

Single−SFS, site 911
Number of patients
134
40
30
20
10
0
0.02
0.04
0.06
Observed frequency

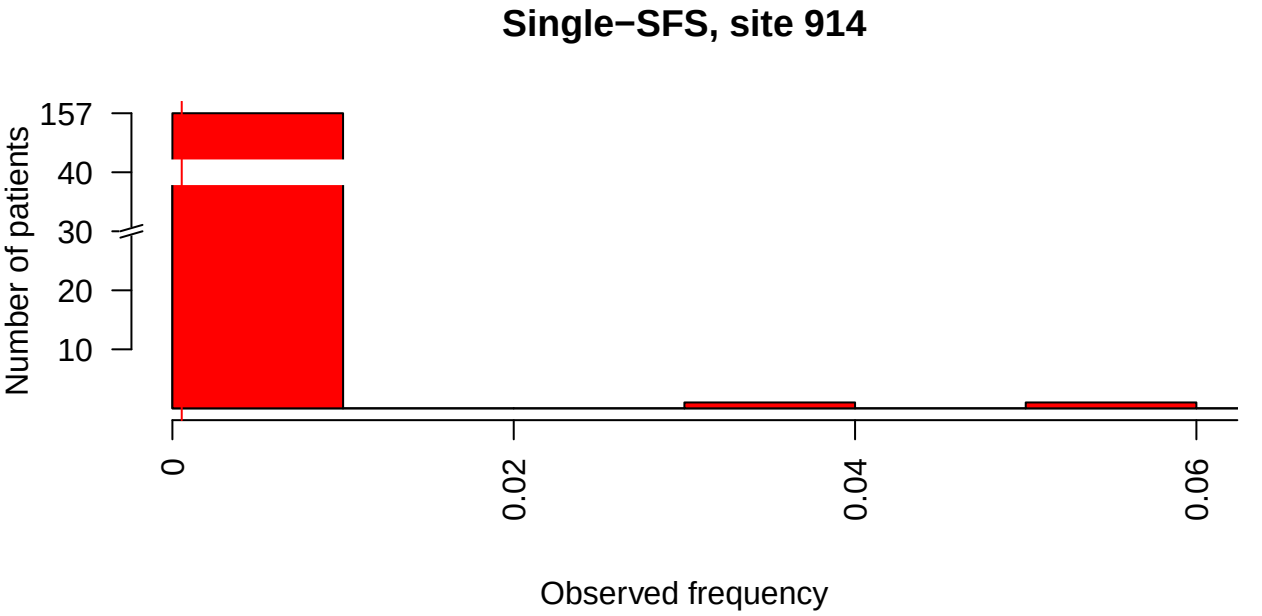

Simulated data, cost 0.0106
Number of patients
135
40
30
20
10
pvalue= 0.794
0
0.02
0.04
0.06
Observed frequency

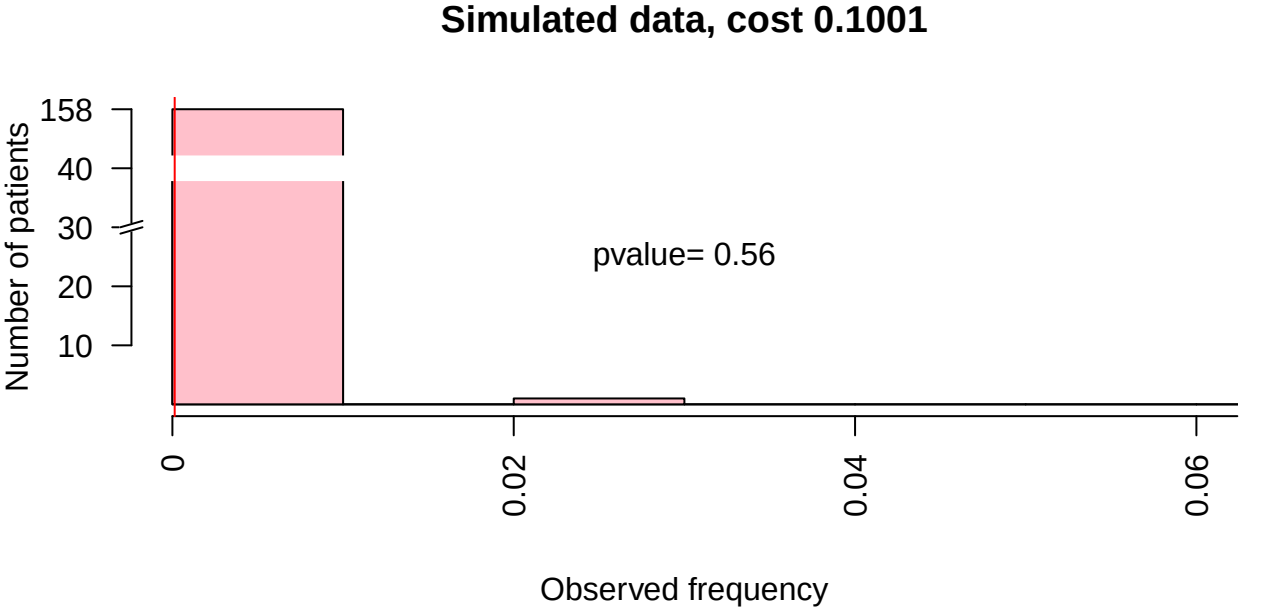

Single−SFS, site 912
Number of patients
100
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
0.24
0.26
0.28
0.3
0.32
0.34
0.36
Observed frequency

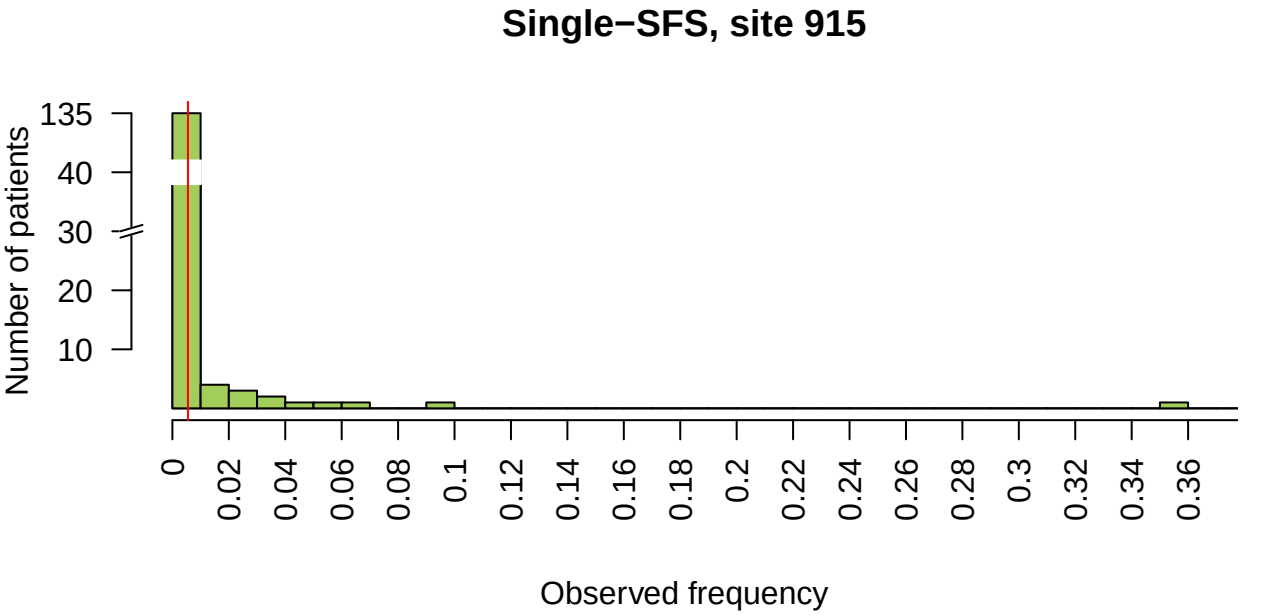

Simulated data, cost 0.0038
Number of patients
93
40
30
20
10
pvalue= 0.279
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
0.24
0.26
0.28
0.3
0.32
0.34
0.36
Observed frequency

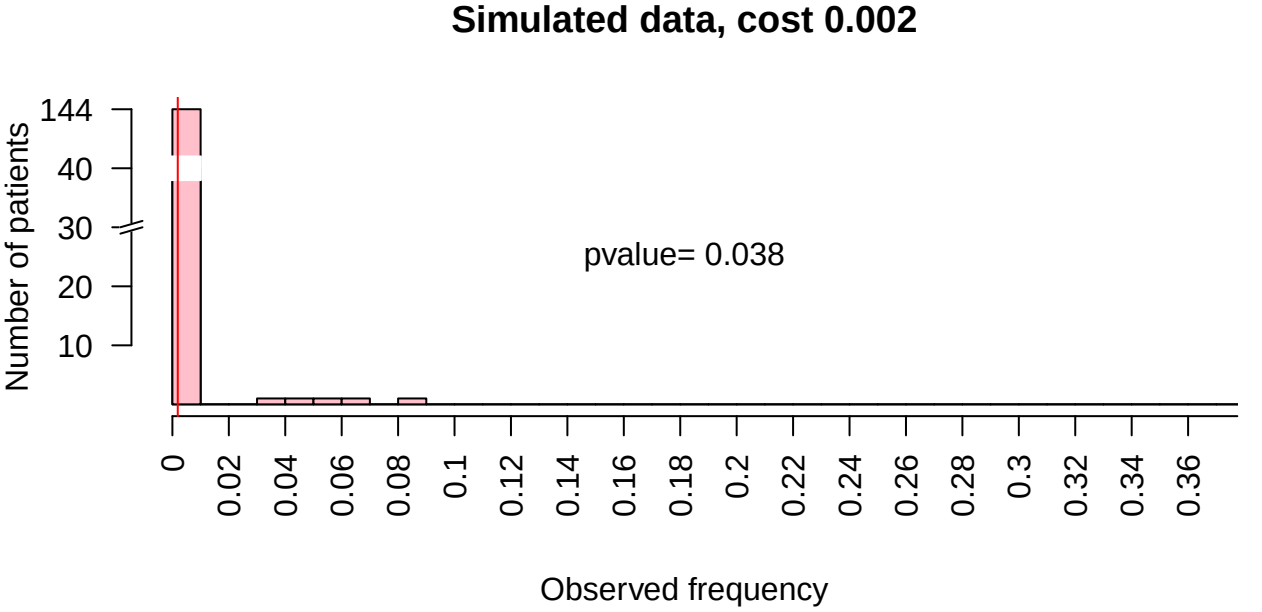

Single−SFS, site 913
Number of patients
149
40
30
20
10
0
0.02
0.04
0.06
Observed frequency

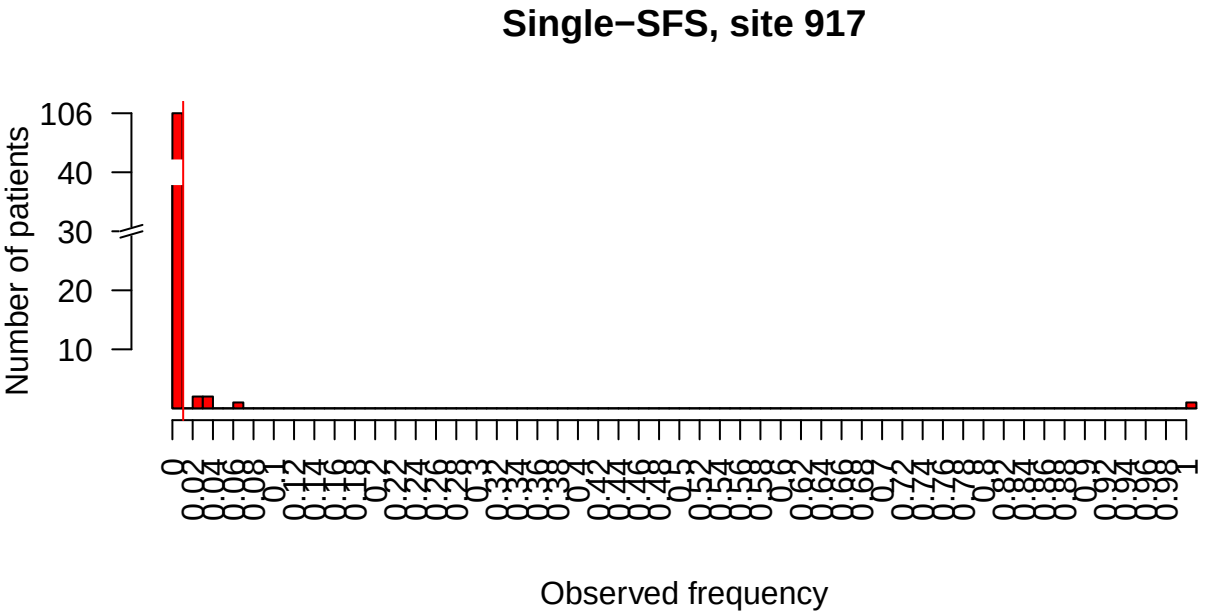

Simulated data, cost 0.0056
Number of patients
157
40
30
20
10
pvalue= 0.011
0
0.02
0.04
0.06
Observed frequency

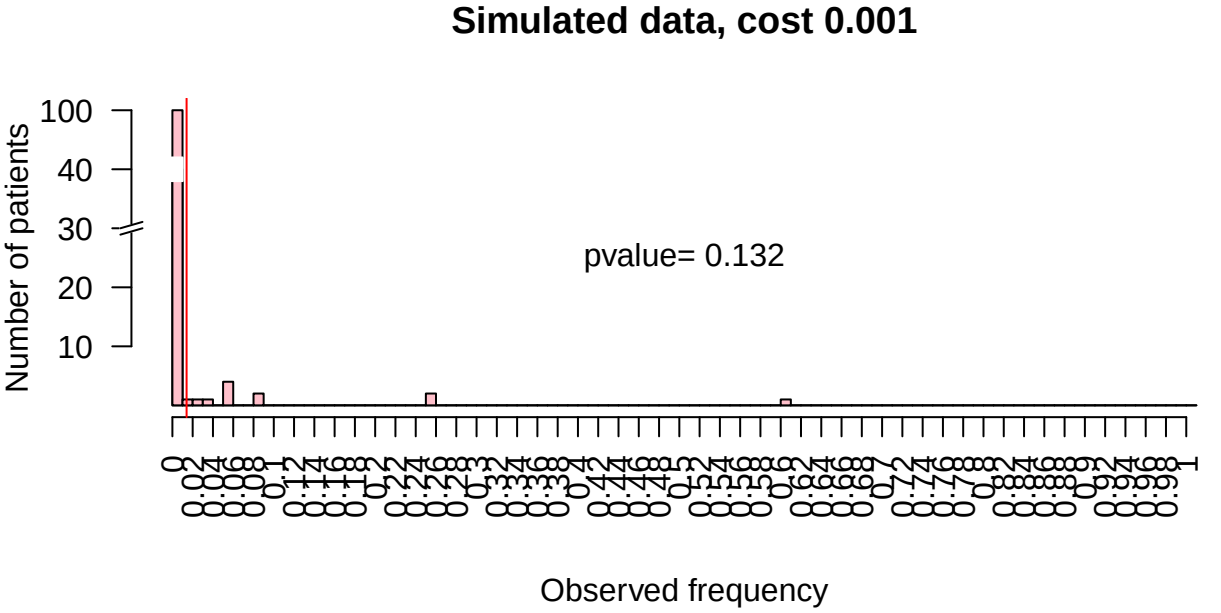

Single−SFS, site 914
Number of patients
157
40
30
20
10
0
0.02
0.04
0.06
Observed frequency

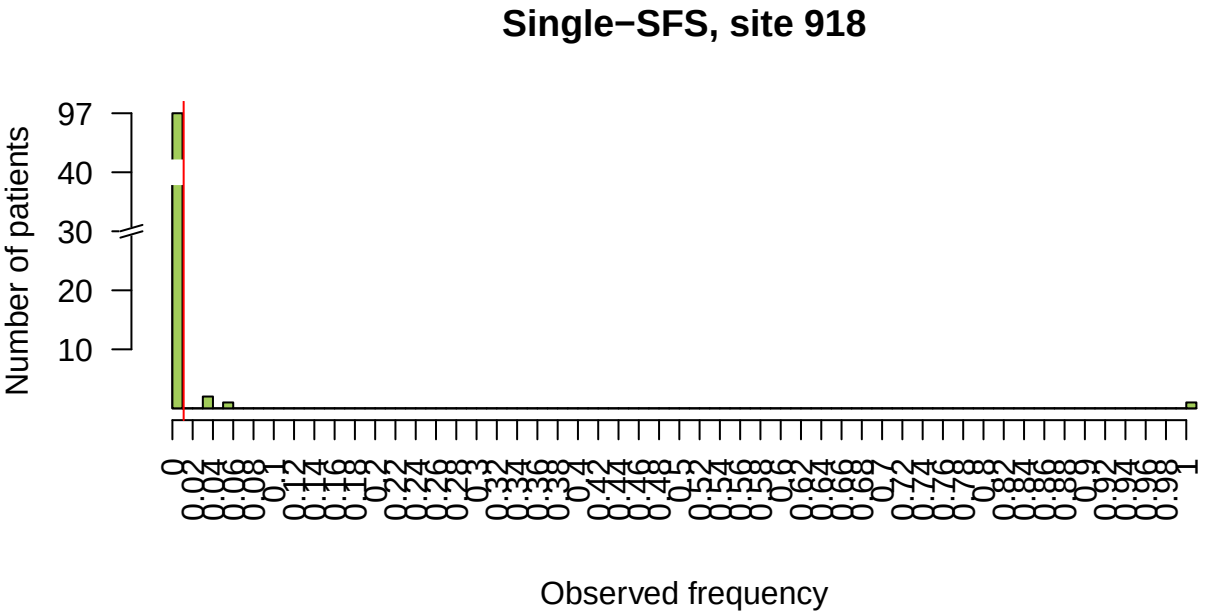

Simulated data, cost 0.1001
Number of patients
158
40
30
20
10
pvalue= 0.56
0
0.02
0.04
0.06
Observed frequency

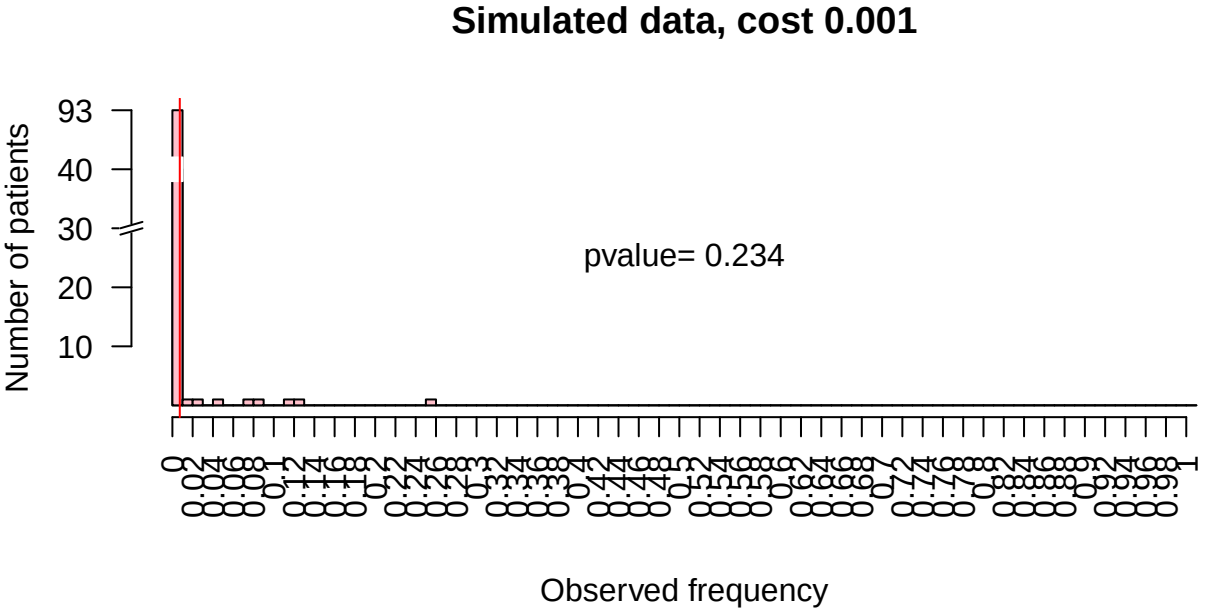

Single−SFS, site 915
Number of patients
135
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
0.24
0.26
0.28
0.3
0.32
0.34
0.36
Observed frequency

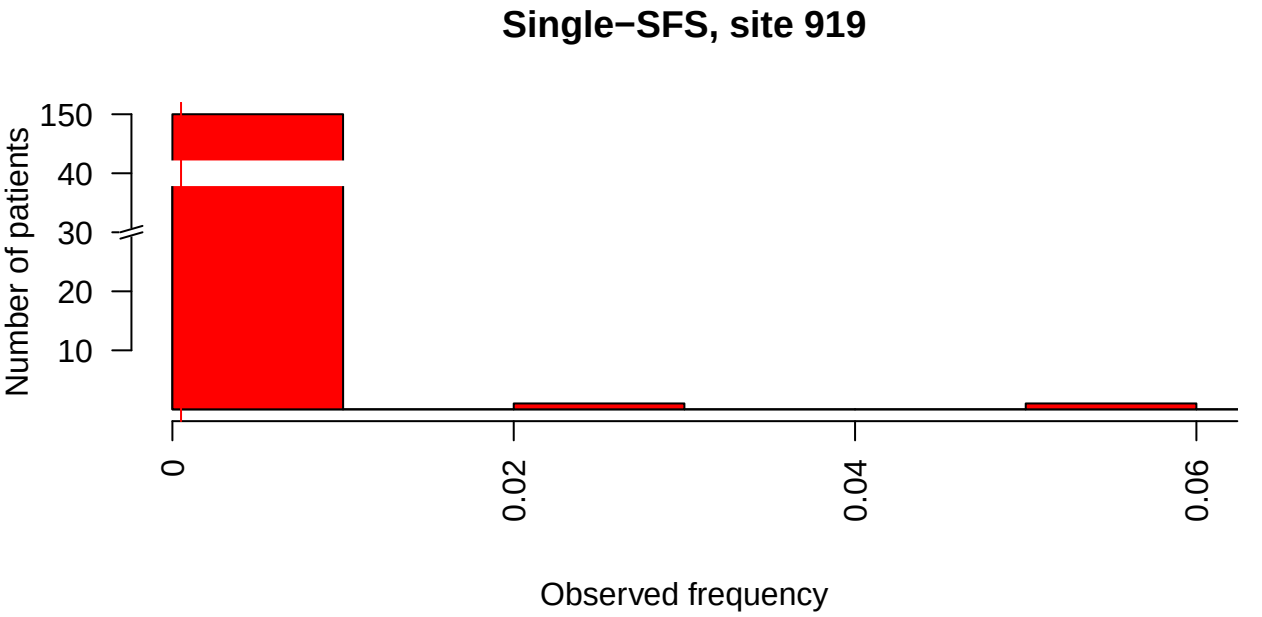

Simulated data, cost 0.002
Number of patients
144
40
30
20
10
pvalue= 0.038
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
0.24
0.26
0.28
0.3
0.32
0.34
0.36
Observed frequency

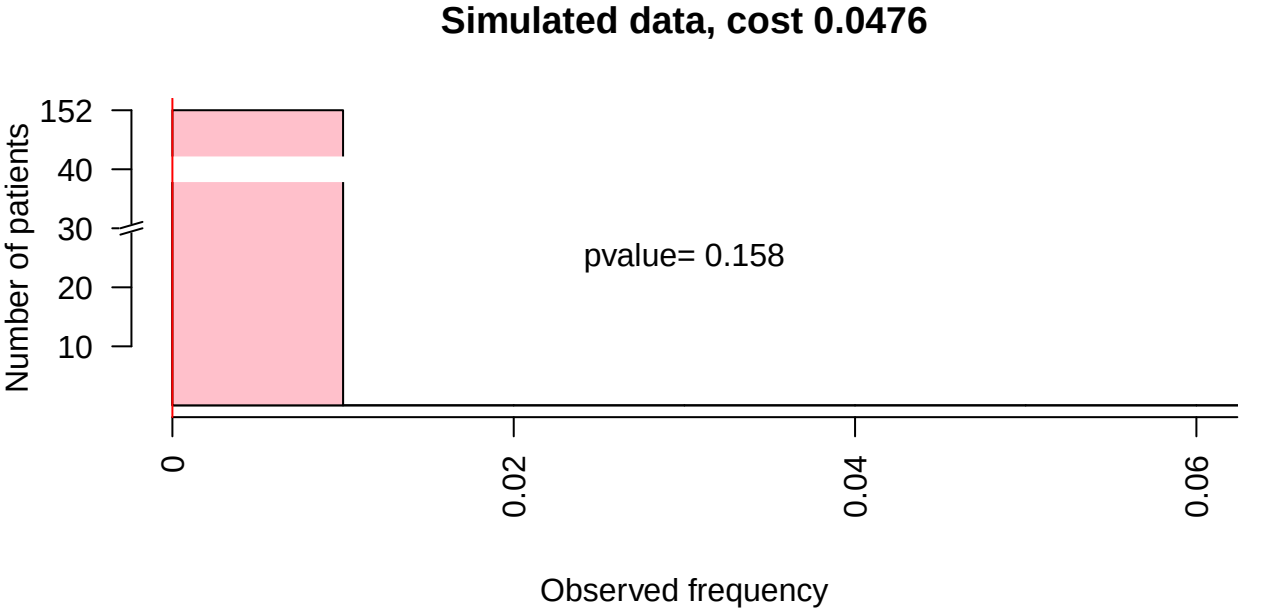

Single−SFS, site 917
Number of patients
106
40
30
20
10
Observed frequency

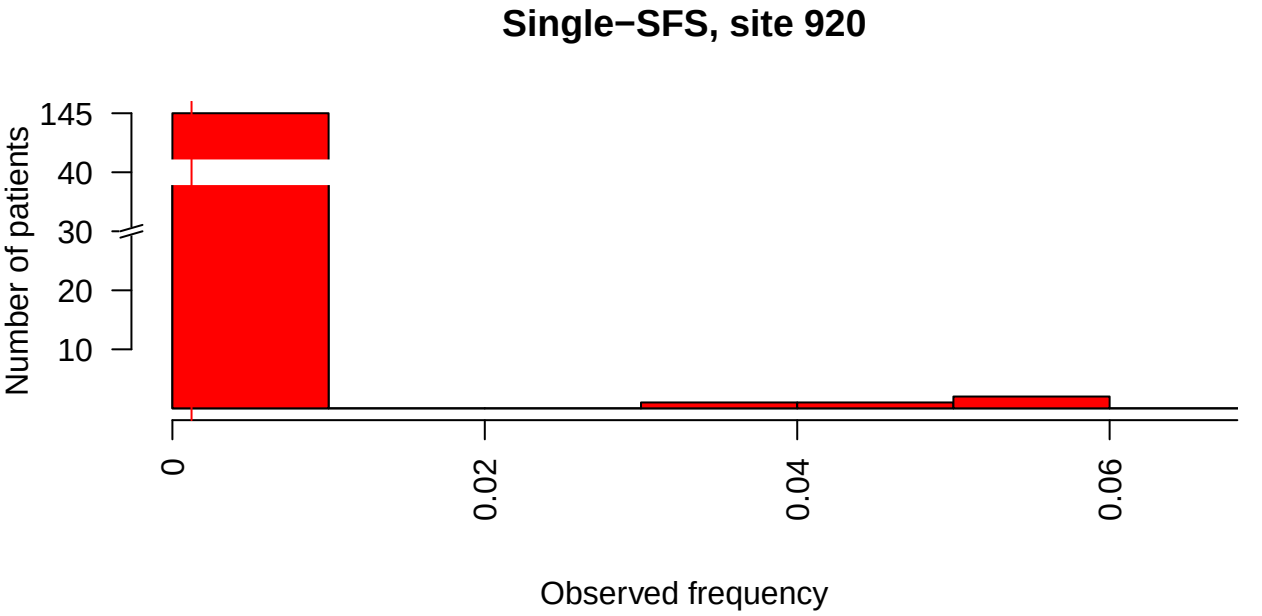

Simulated data, cost 0.001
Number of patients
100
40
30
20
10
pvalue= 0.132
Observed frequency

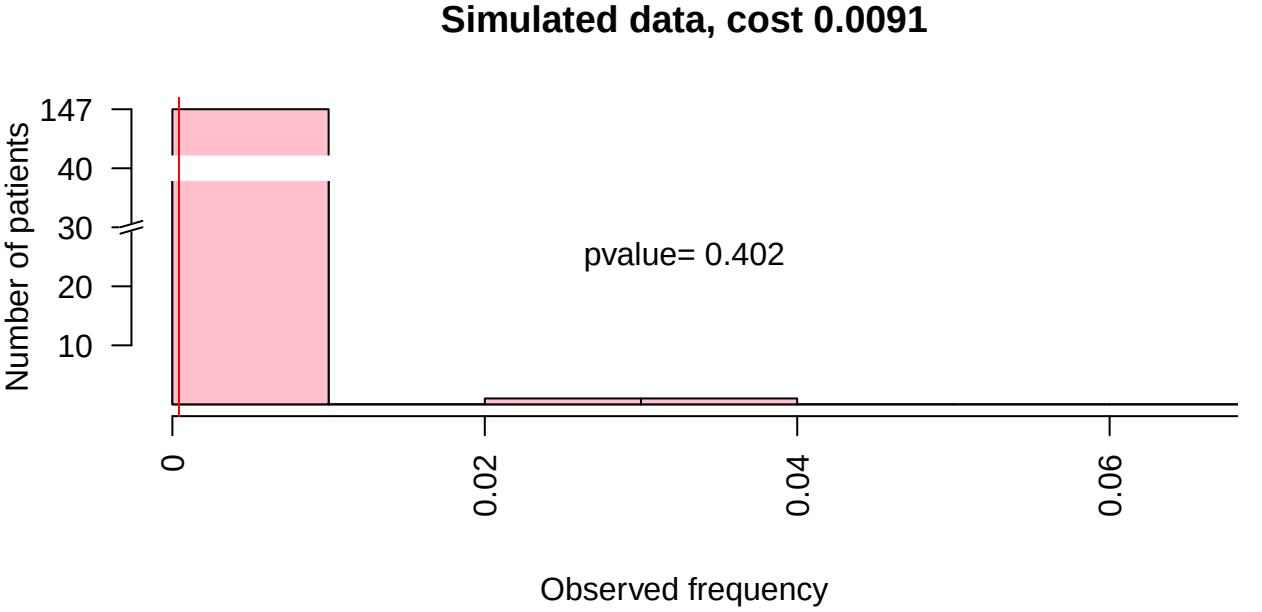

Single−SFS, site 918
Number of patients
97
40
30
20
10
Observed frequency

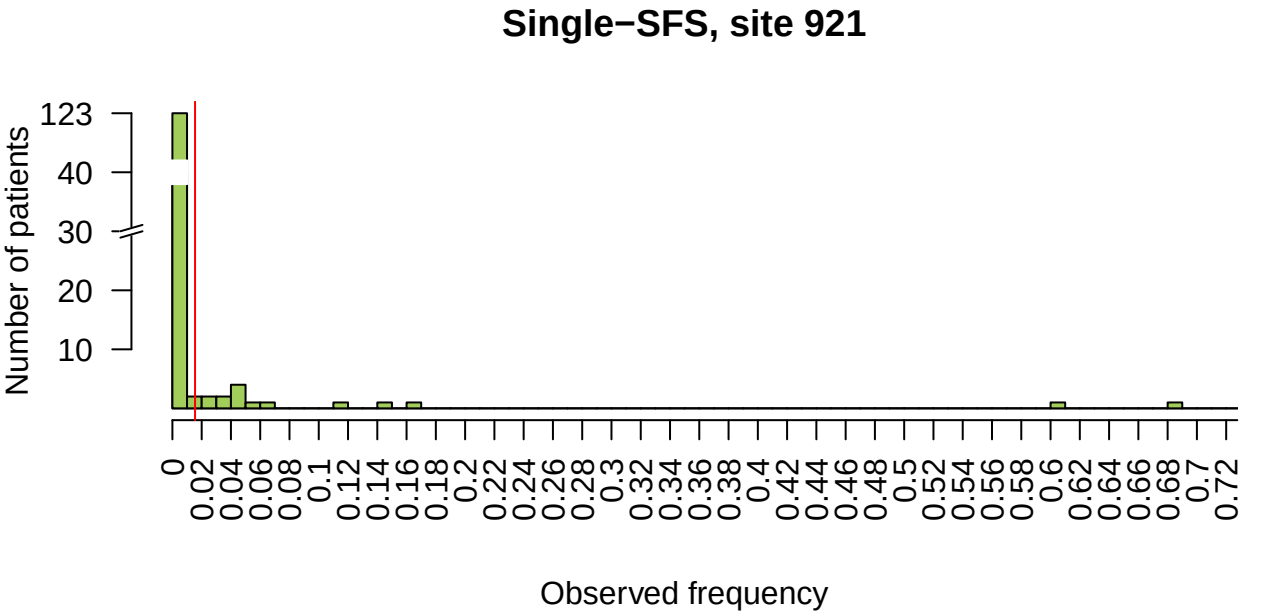

Simulated data, cost 0.001
Number of patients
93
40
30
20
10
pvalue= 0.234
Observed frequency

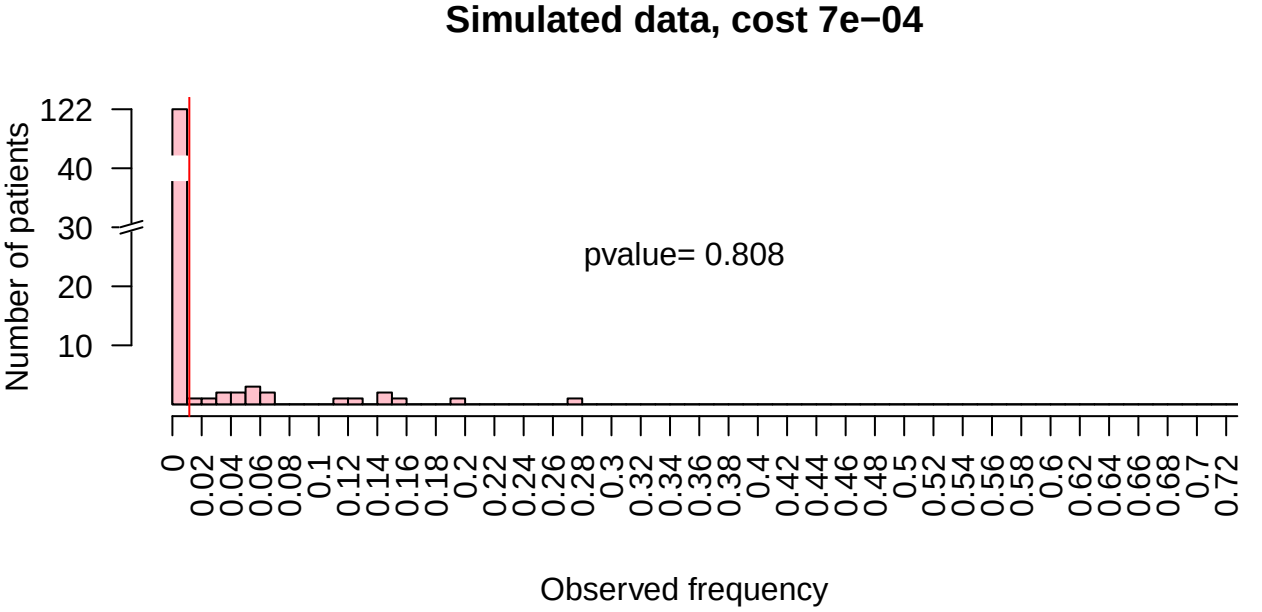

Single−SFS, site 919
Number of patients
150
40
30
20
10
0
0.02
0.04
0.06
Observed frequency

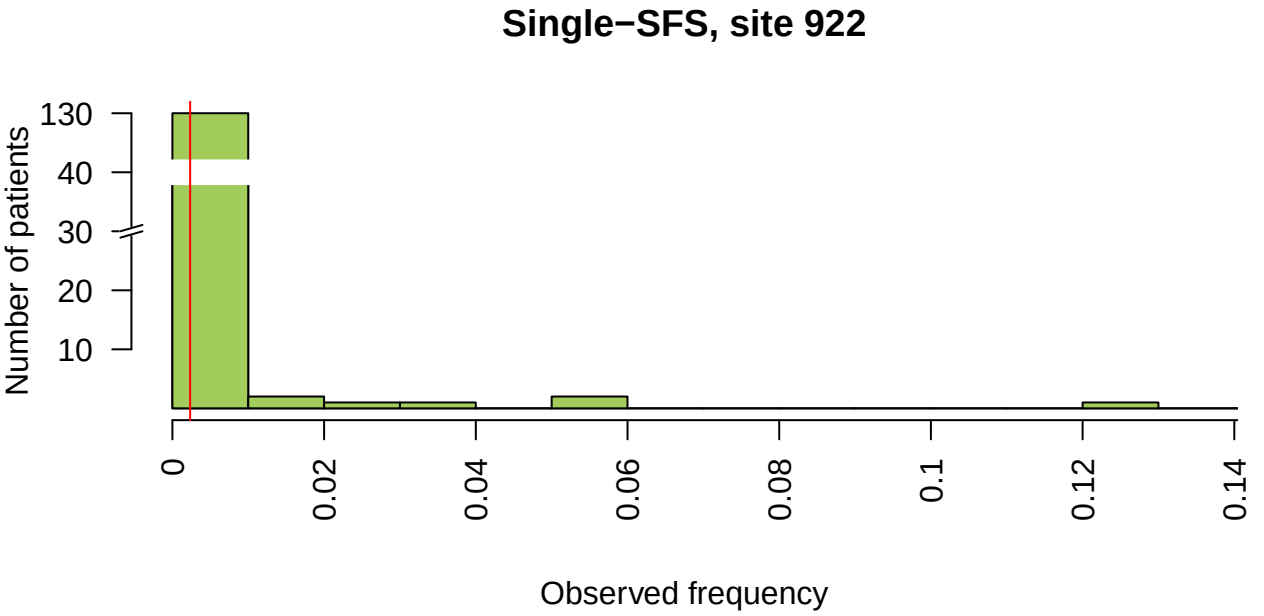

Simulated data, cost 0.0476
Number of patients
152
40
30
20
10
pvalue= 0.158
0
0.02
0.04
0.06
Observed frequency

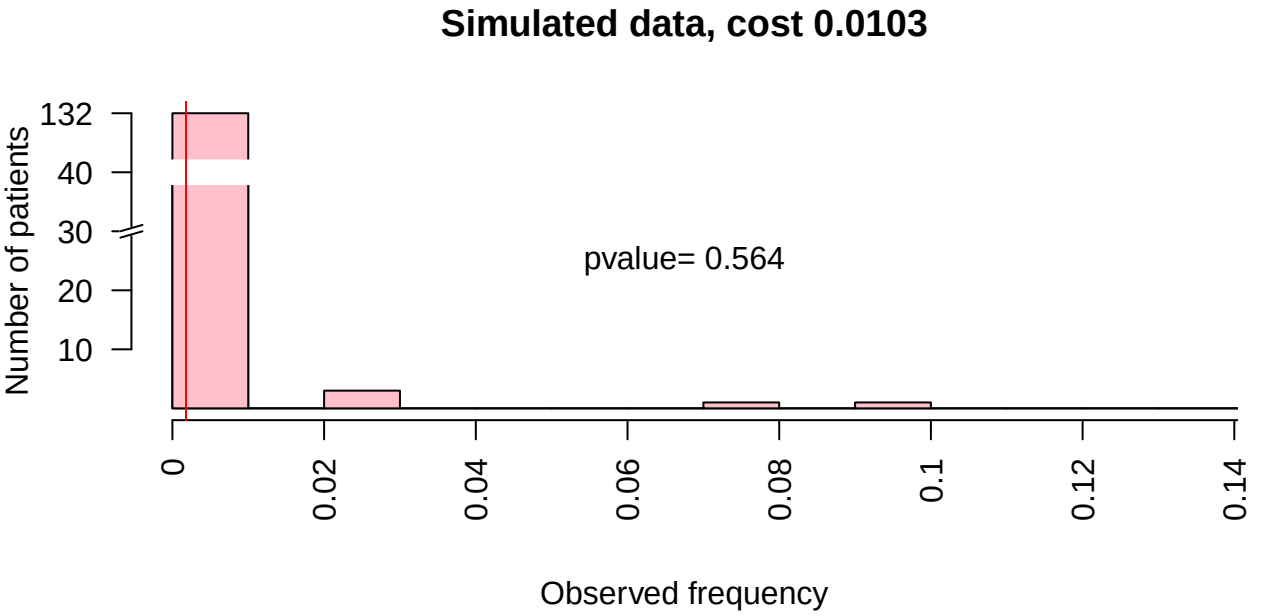

Single−SFS, site 920
Number of patients
145
40
30
20
10
0
0.02
0.04
0.06
Observed frequency

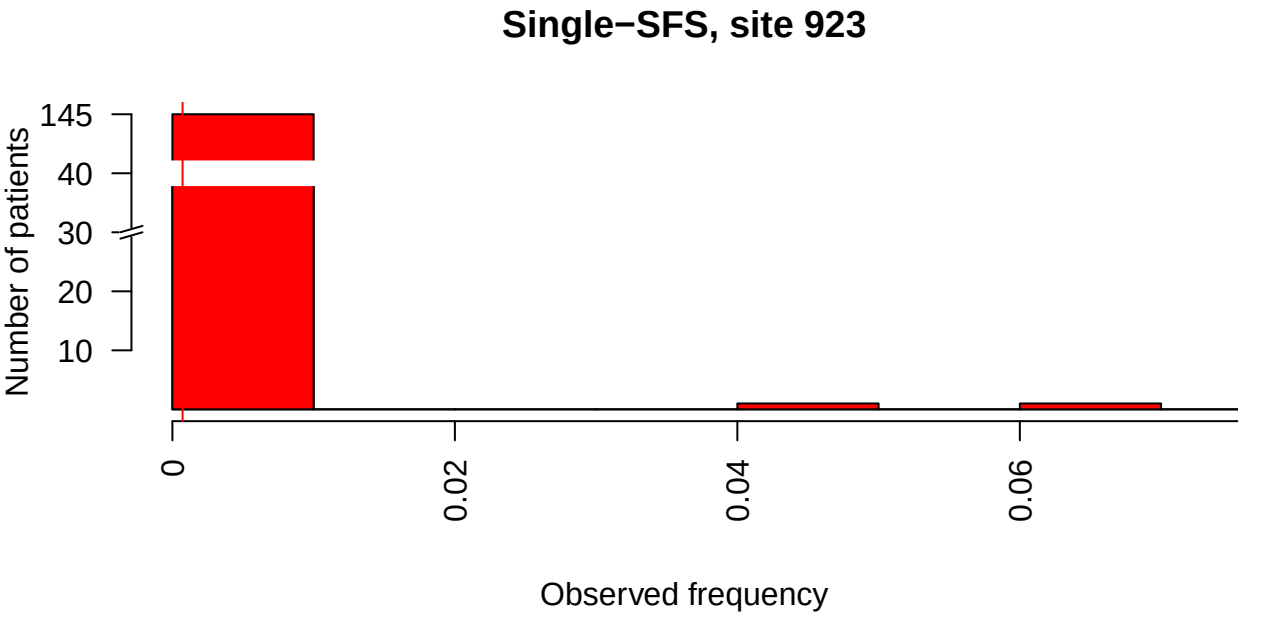

Simulated data, cost 0.0091
Number of patients
147
40
30
20
10
pvalue= 0.402
0
0.02
0.04
0.06
Observed frequency

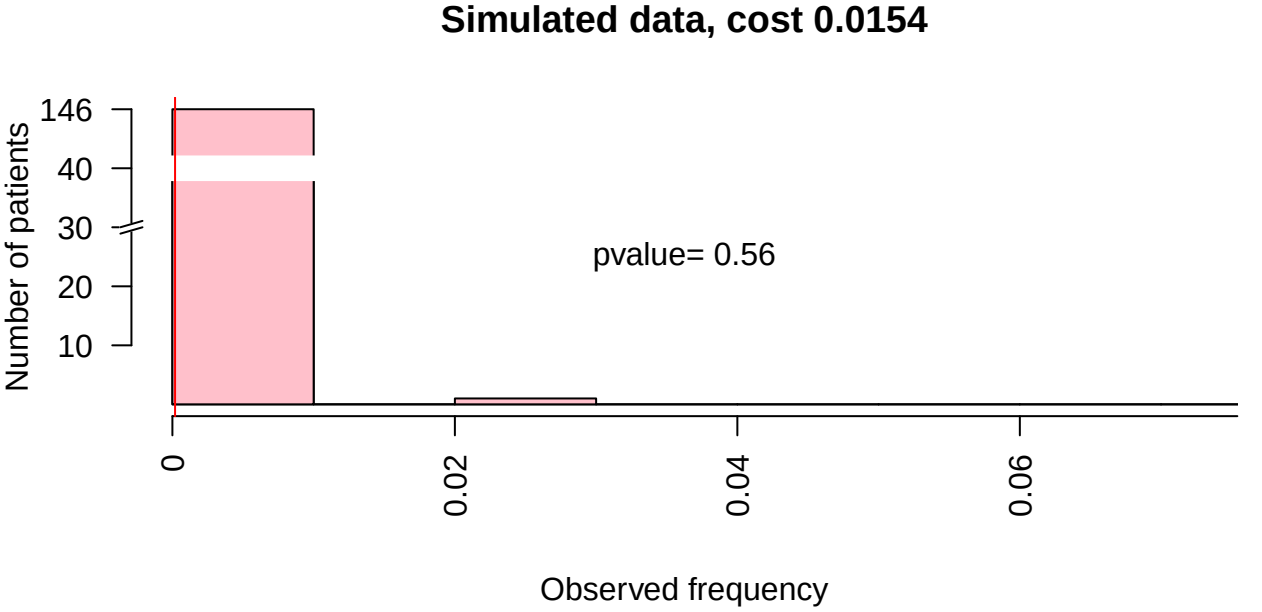

Single−SFS, site 921
Number of patients
123
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
0.24
0.26
0.28
0.3
0.32
0.34
0.36
0.38
0.4
0.42
0.44
0.46
0.48
0.5
0.52
0.54
0.56
0.58
0.6
0.62
0.64
0.66
0.68
0.7
0.72
Observed frequency

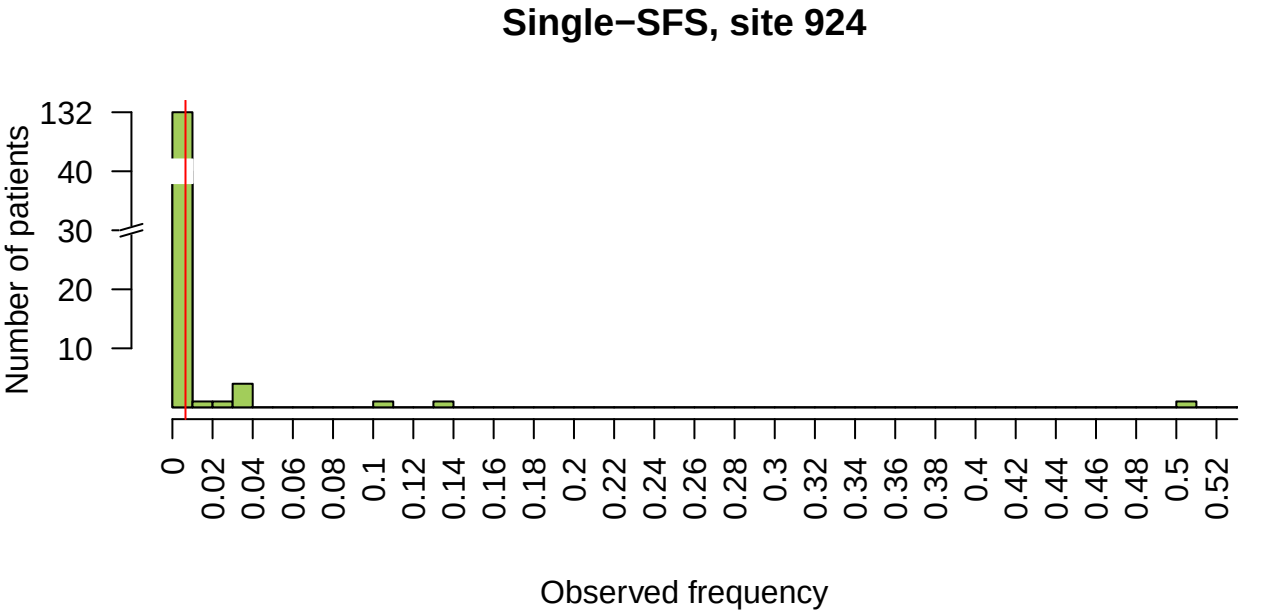

Simulated data, cost 7e−04
Number of patients
122
40
30
20
10
pvalue= 0.808
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
0.24
0.26
0.28
0.3
0.32
0.34
0.36
0.38
0.4
0.42
0.44
0.46
0.48
0.5
0.52
0.54
0.56
0.58
0.6
0.62
0.64
0.66
0.68
0.7
0.72
Observed frequency

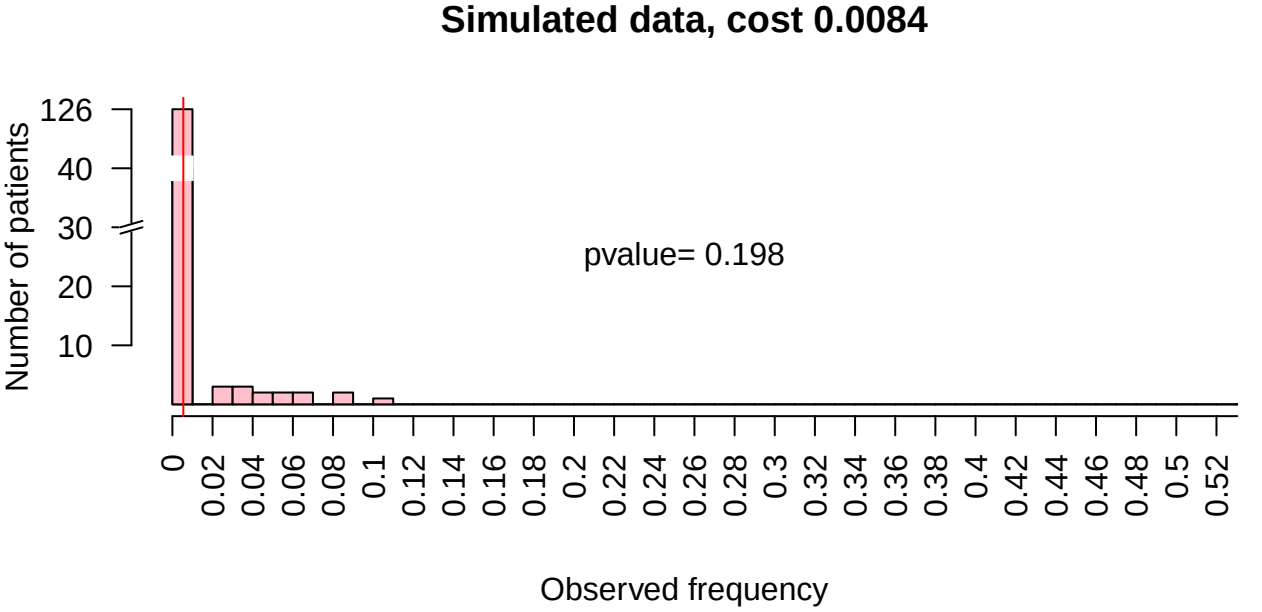

Single−SFS, site 922
Number of patients
130
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
Observed frequency

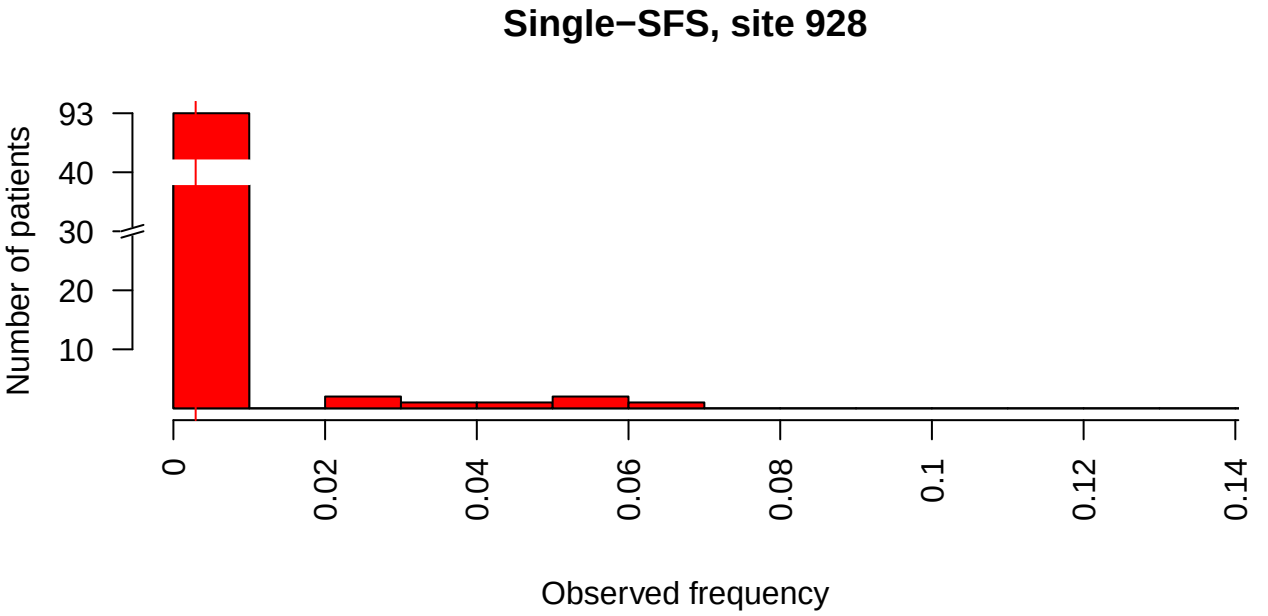

Simulated data, cost 0.0103
Number of patients
132
40
30
20
10
pvalue= 0.564
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
Observed frequency

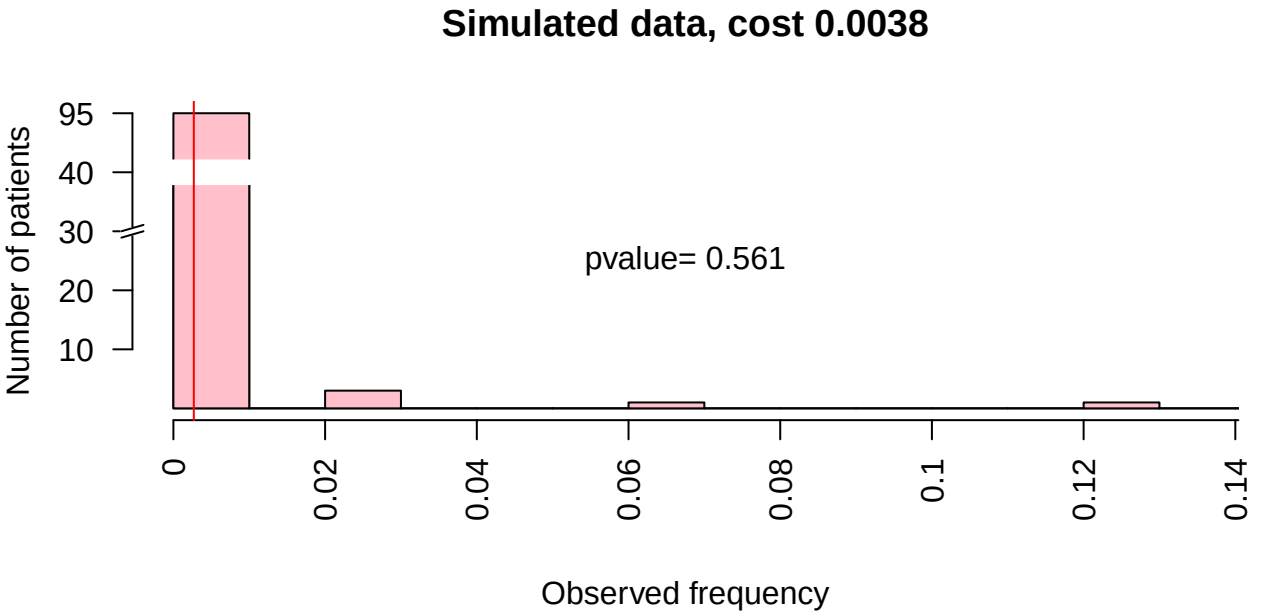

Single−SFS, site 923
Number of patients
145
40
30
20
10
0
0.02
0.04
0.06
Observed frequency

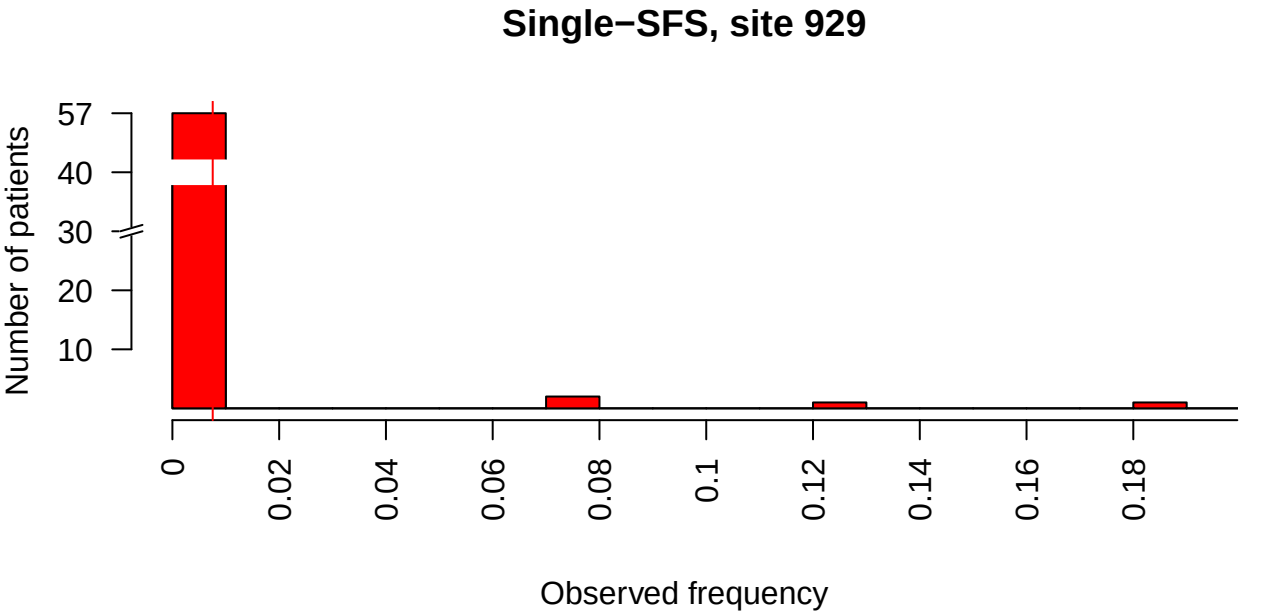

Simulated data, cost 0.0154
Number of patients
146
40
30
20
10
pvalue= 0.56
0
0.02
0.04
0.06
Observed frequency

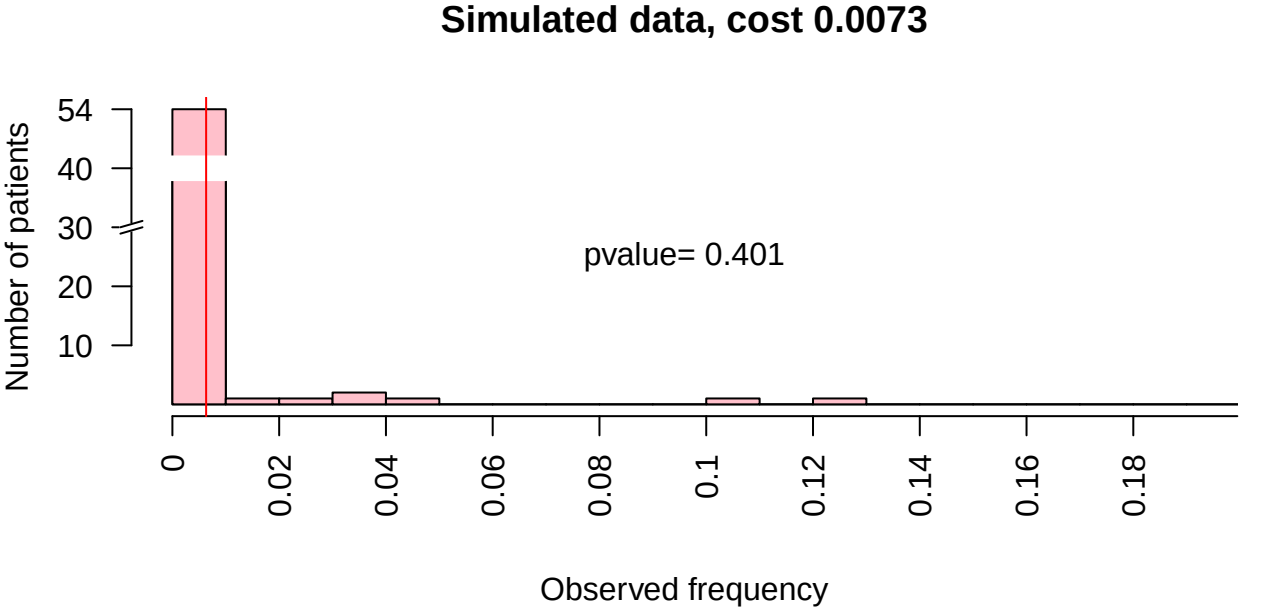

Single−SFS, site 924
Number of patients
132
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
0.24
0.26
0.28
0.3
0.32
0.34
0.36
0.38
0.4
0.42
0.44
0.46
0.48
0.5
0.52
Observed frequency

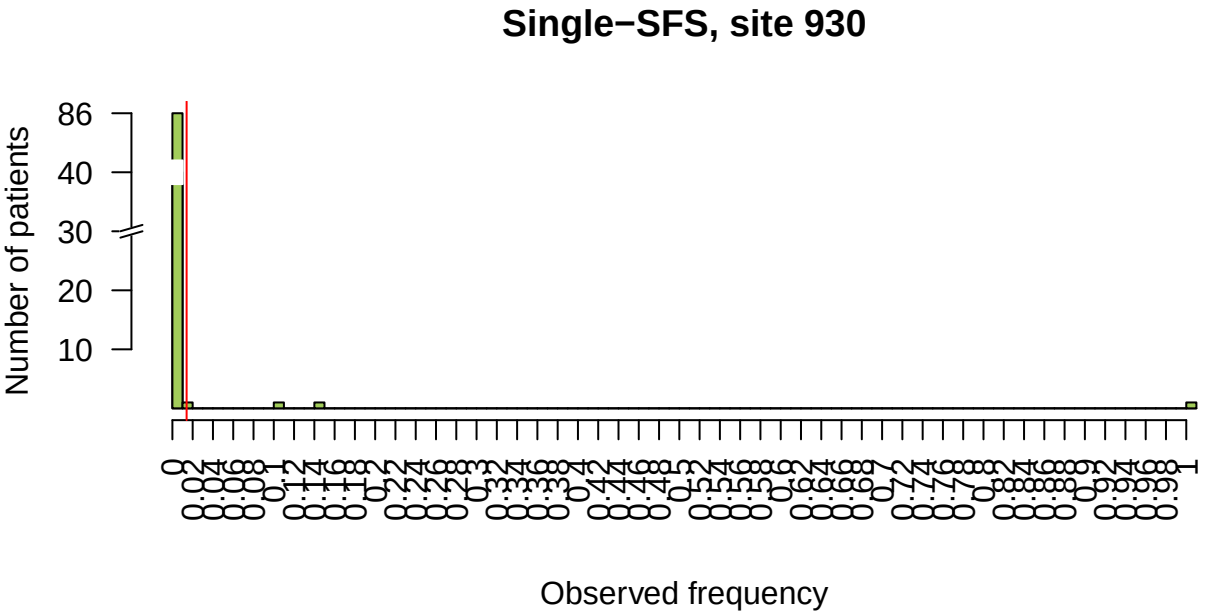

Simulated data, cost 0.0084
Number of patients
126
40
30
20
10
pvalue= 0.198
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
0.24
0.26
0.28
0.3
0.32
0.34
0.36
0.38
0.4
0.42
0.44
0.46
0.48
0.5
0.52
Observed frequency

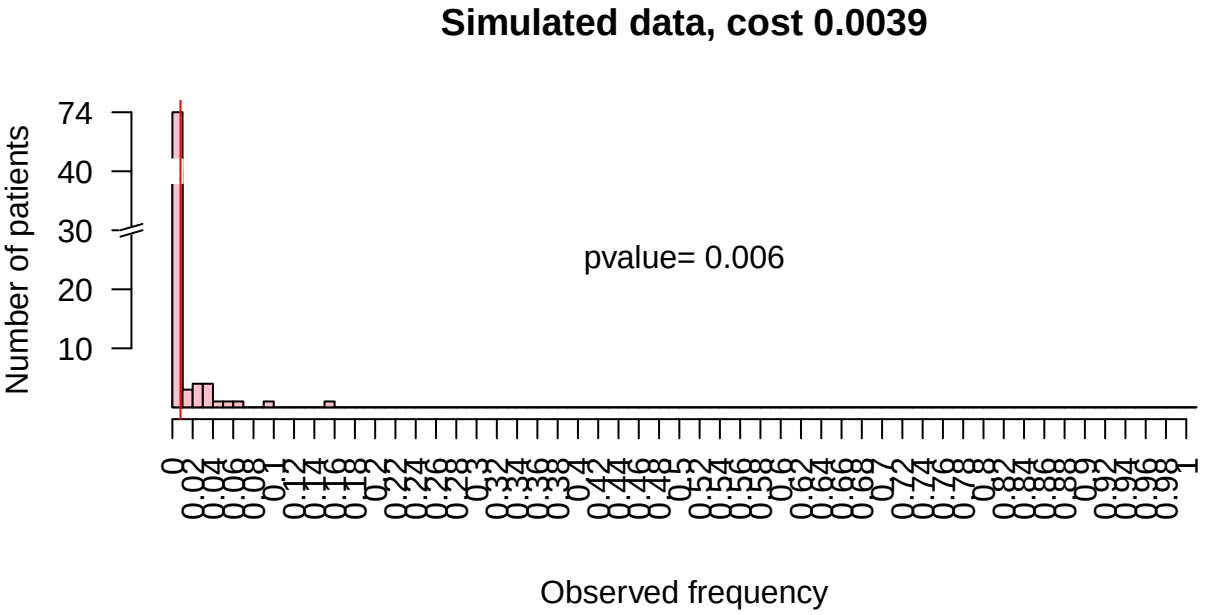

Single−SFS, site 928
Number of patients
93
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
Observed frequency

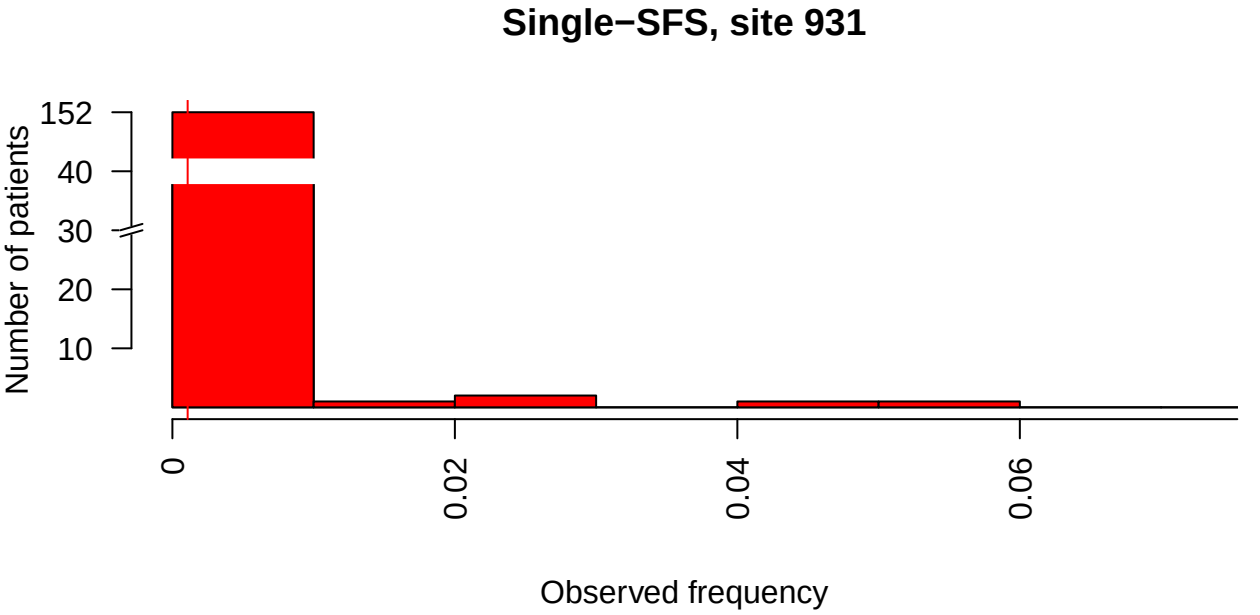

Simulated data, cost 0.0038
Number of patients
95
40
30
20
10
pvalue= 0.561
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
Observed frequency

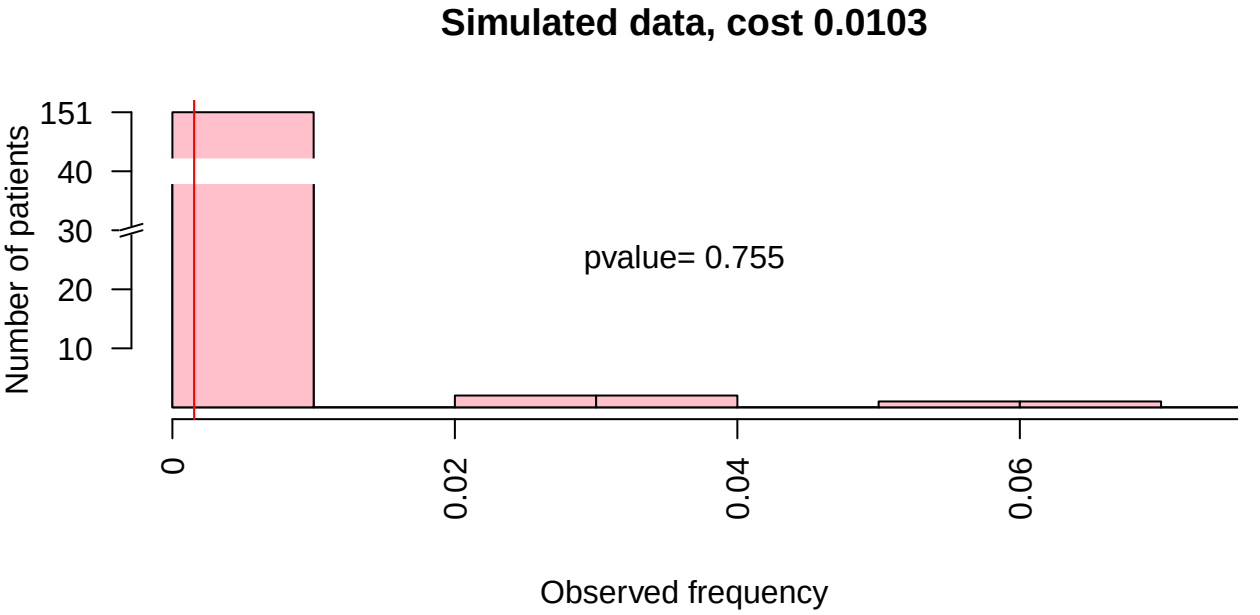

Single−SFS, site 929
Number of patients
57
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
Observed frequency

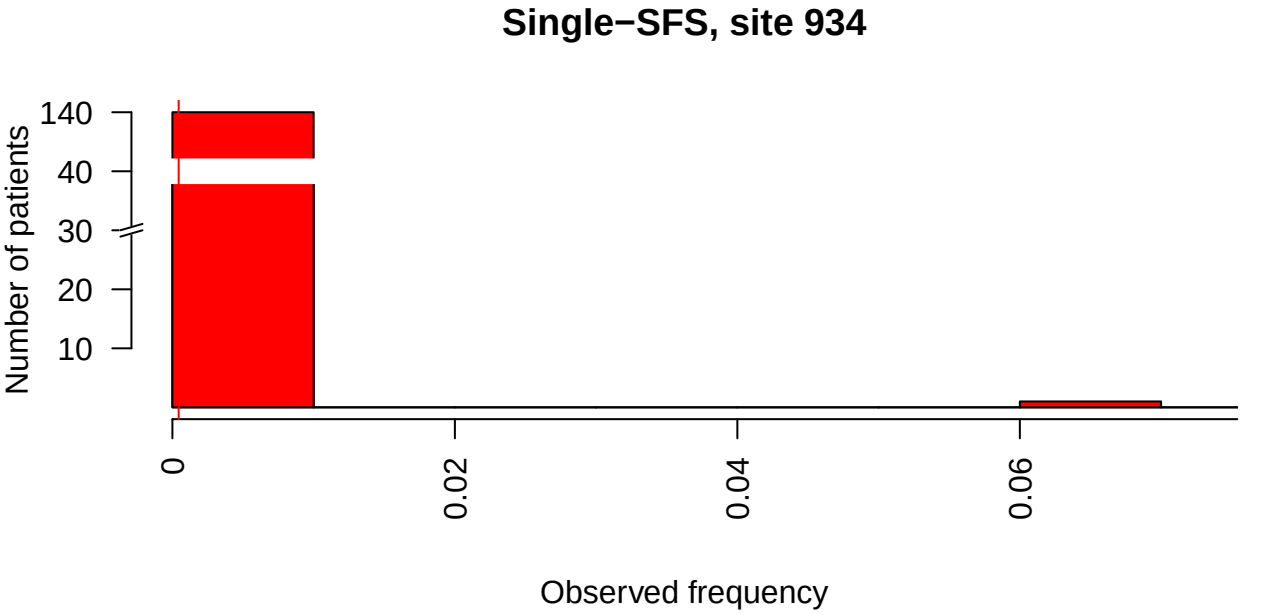

Simulated data, cost 0.0073
Number of patients
54
40
30
20
10
pvalue= 0.401
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
Observed frequency

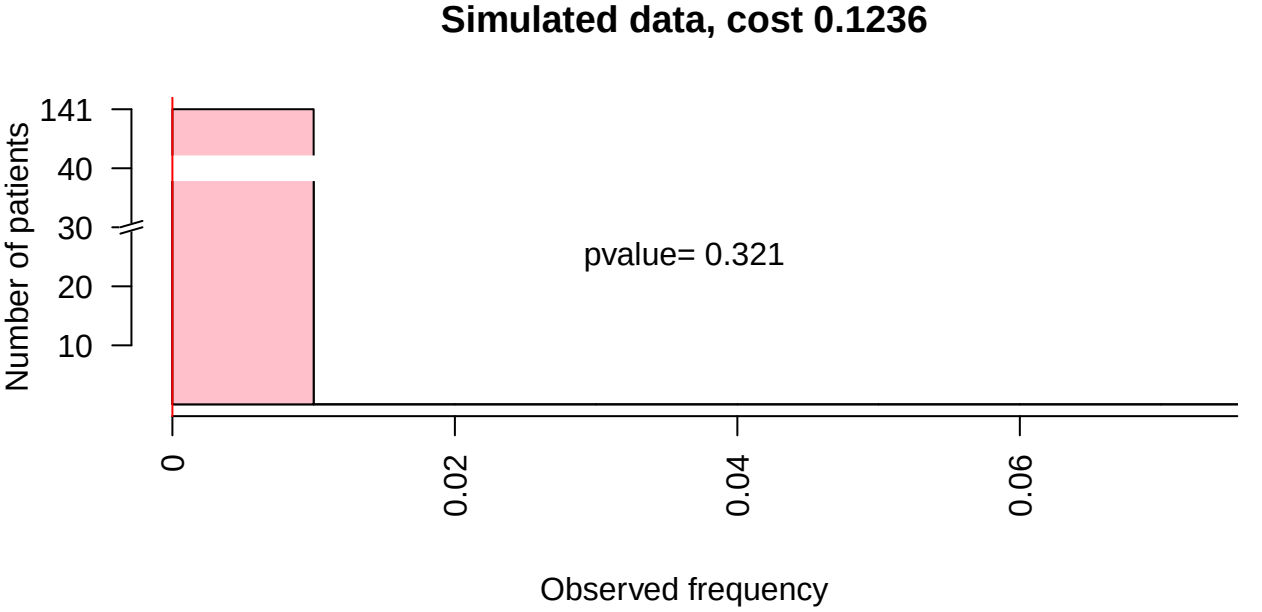

Single−SFS, site 930
Number of patients
86
40
30
20
10
Observed frequency

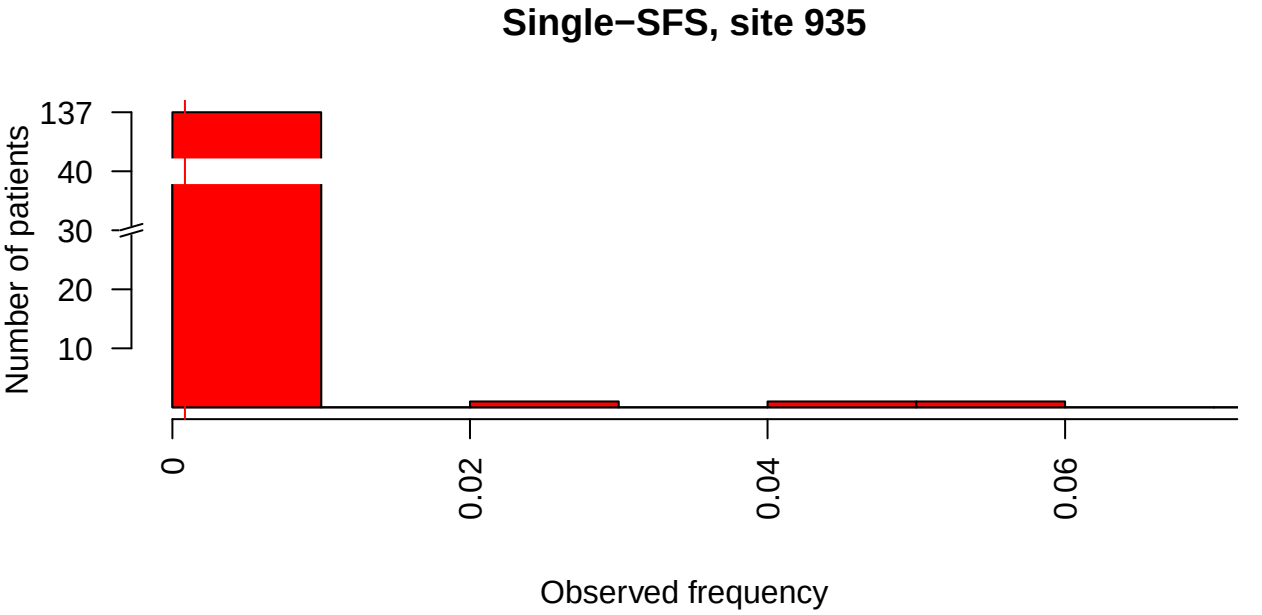

Simulated data, cost 0.0039
Number of patients
74
40
30
20
10
pvalue= 0.006
Observed frequency

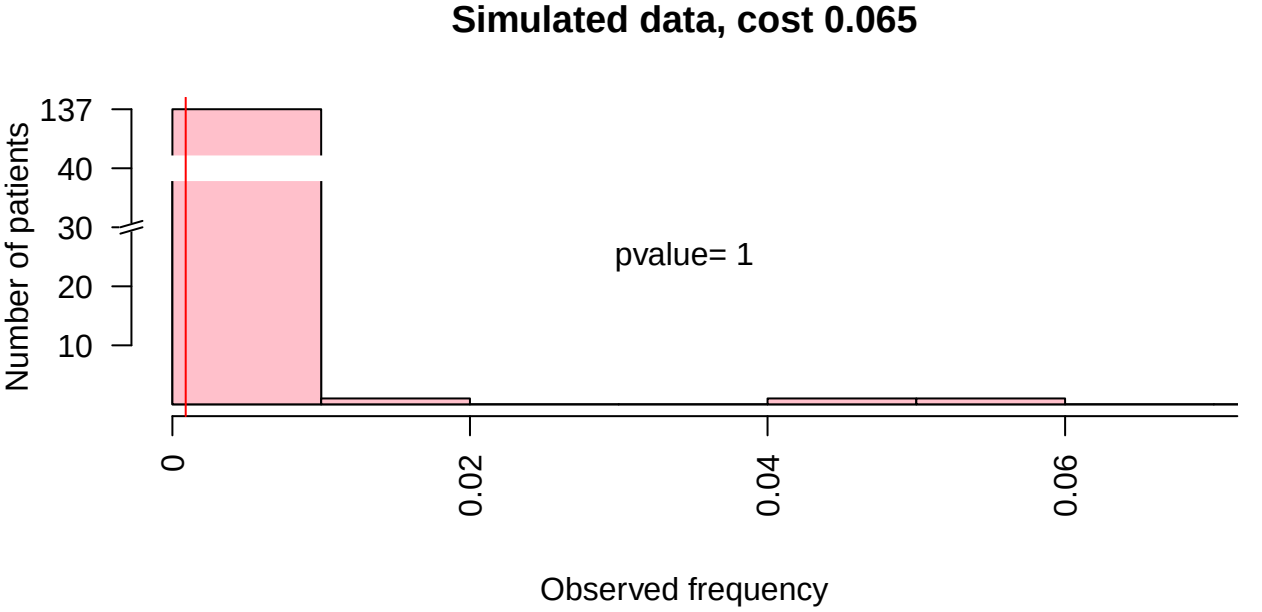

Single−SFS, site 931
Number of patients
152
40
30
20
10
0
0.02
0.04
0.06
Observed frequency

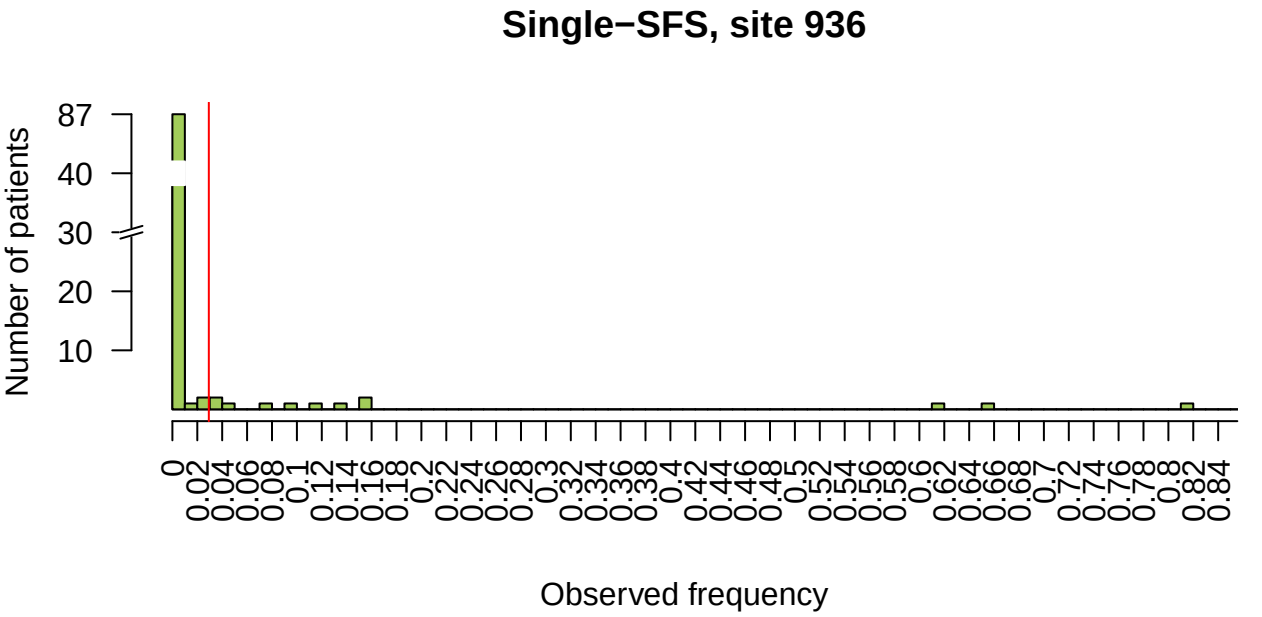

Simulated data, cost 0.0103
Number of patients
151
40
30
20
10
pvalue= 0.755
0
0.02
0.04
0.06
Observed frequency

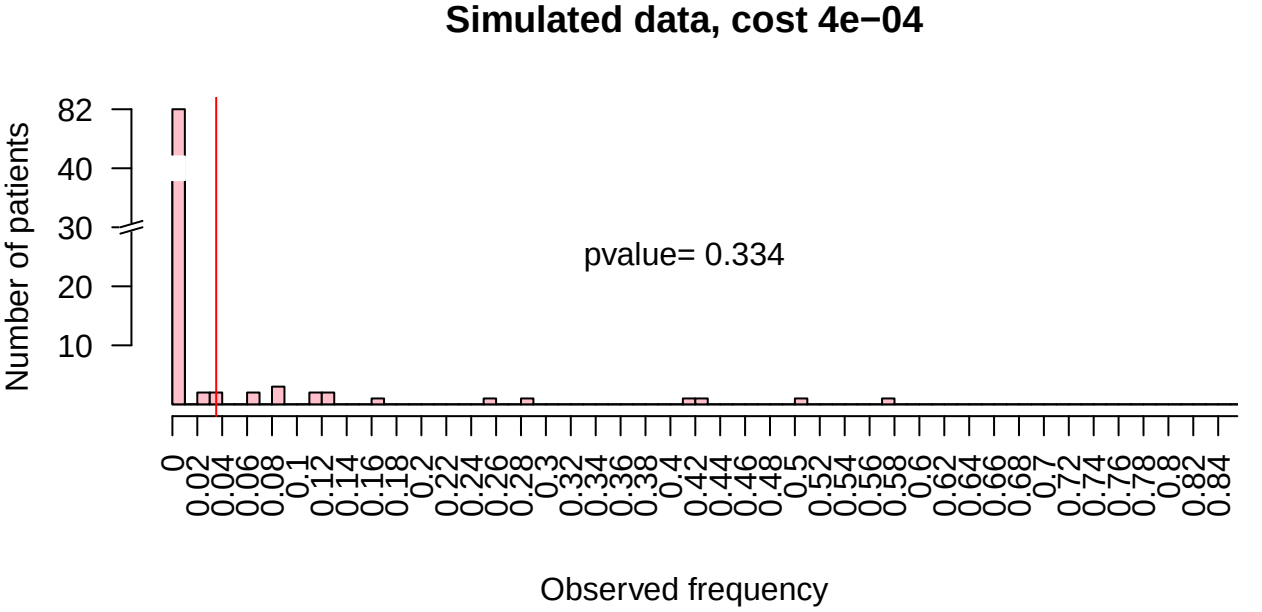

Single−SFS, site 934
Number of patients
140
40
30
20
10
0
0.02
0.04
0.06
Observed frequency

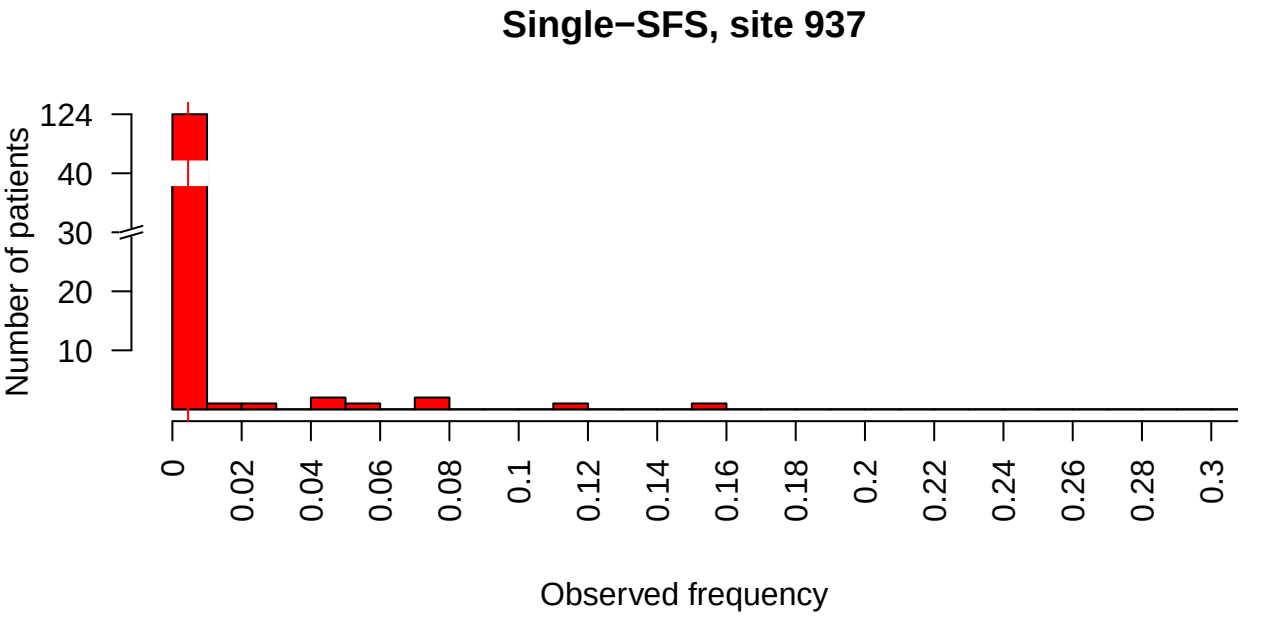

Simulated data, cost 0.1236
Number of patients
141
40
30
20
10
pvalue= 0.321
0
0.02
0.04
0.06
Observed frequency

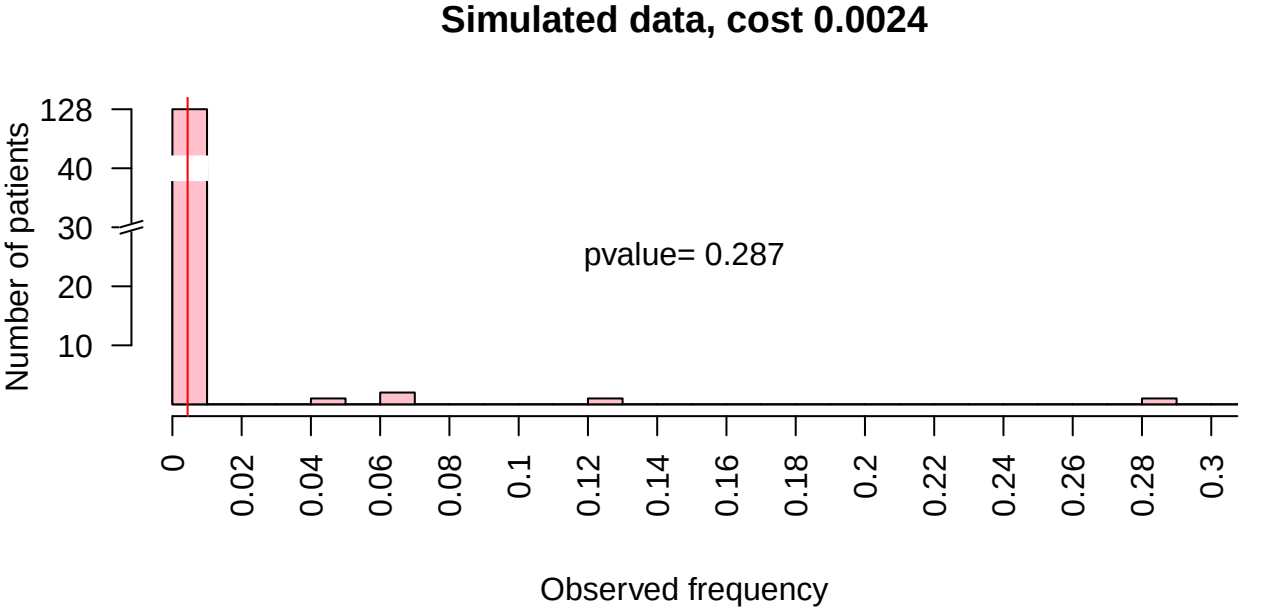

Single−SFS, site 935
Number of patients
137
40
30
20
10
0
0.02
0.04
0.06
Observed frequency

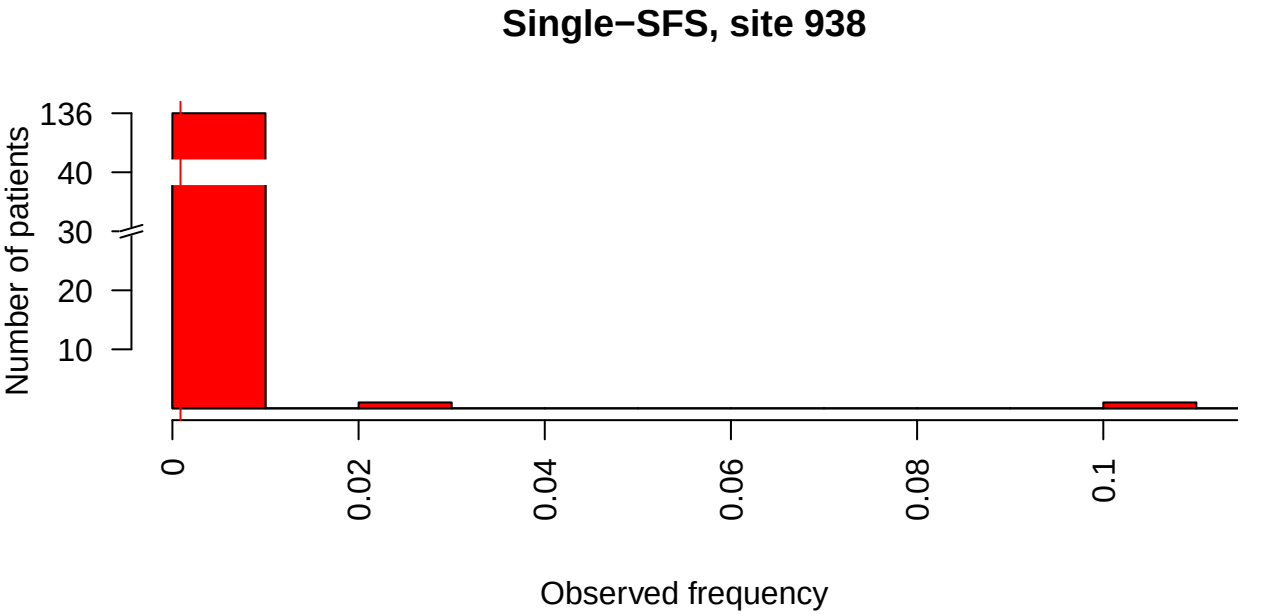

Simulated data, cost 0.065
Number of patients
137
40
30
20
10
pvalue= 1
0
0.02
0.04
0.06
Observed frequency

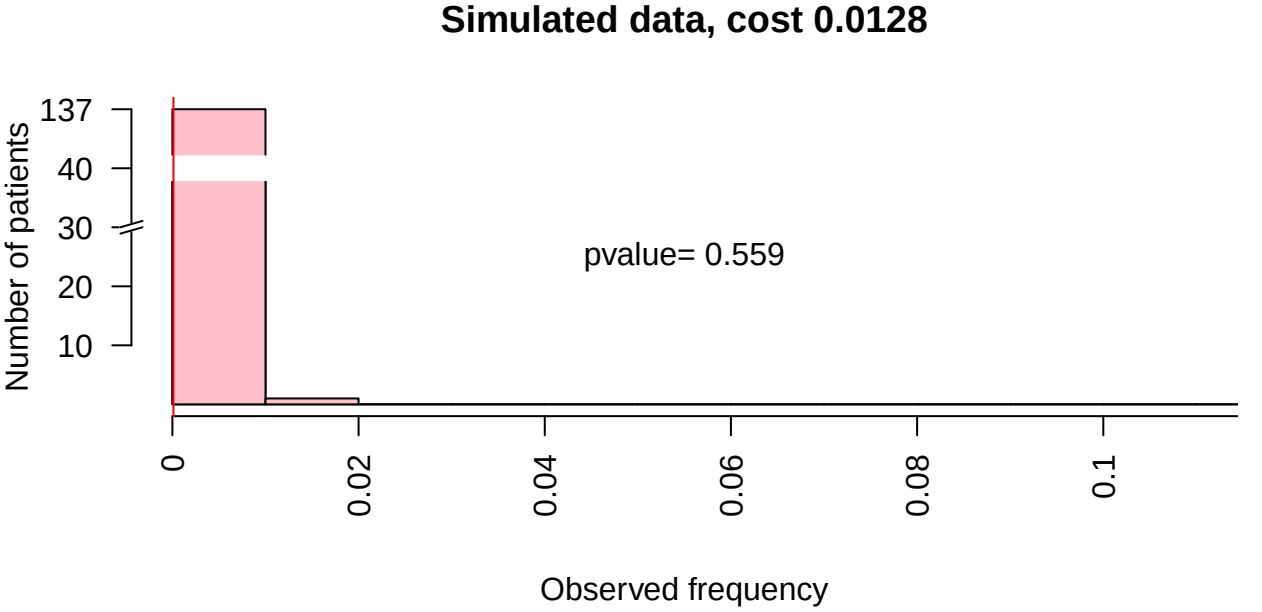

Single−SFS, site 936
Number of patients
87
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
0.24
0.26
0.28
0.3
0.32
0.34
0.36
0.38
0.4
0.42
0.44
0.46
0.48
0.5
0.52
0.54
0.56
0.58
0.6
0.62
0.64
0.66
0.68
0.7
0.72
0.74
0.76
0.78
0.8
0.82
0.84
Observed frequency

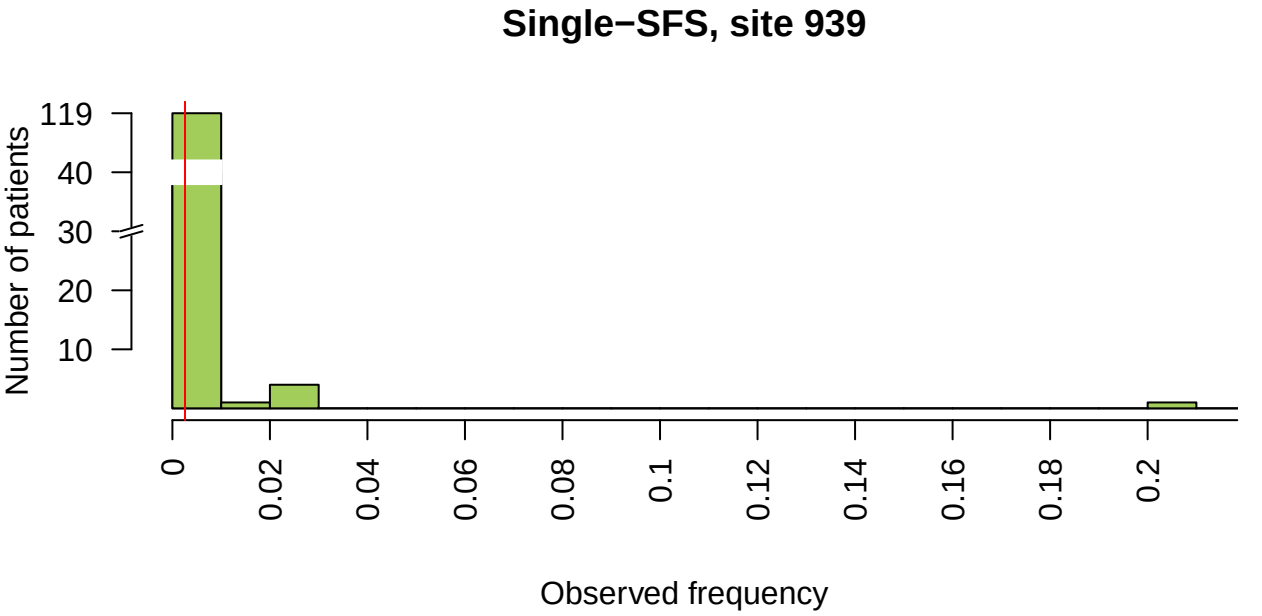

Simulated data, cost 4e−04
Number of patients
82
40
30
20
10
pvalue= 0.334
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
0.24
0.26
0.28
0.3
0.32
0.34
0.36
0.38
0.4
0.42
0.44
0.46
0.48
0.5
0.52
0.54
0.56
0.58
0.6
0.62
0.64
0.66
0.68
0.7
0.72
0.74
0.76
0.78
0.8
0.82
0.84
Observed frequency

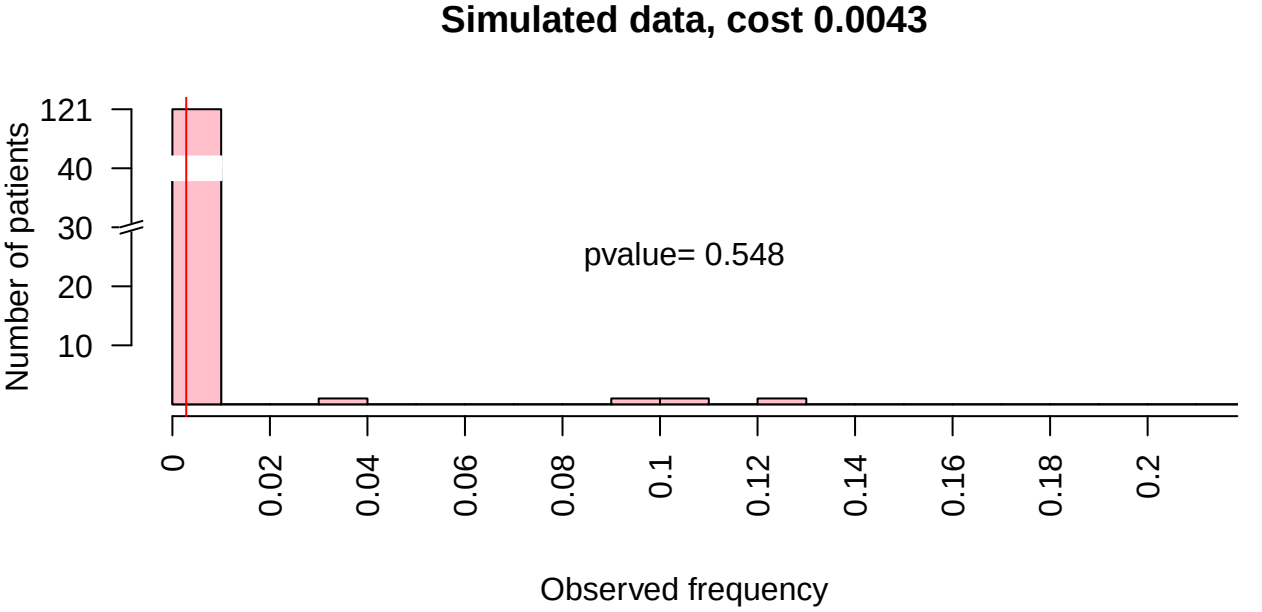

Single−SFS, site 937
Number of patients
124
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
0.24
0.26
0.28
0.3
Observed frequency

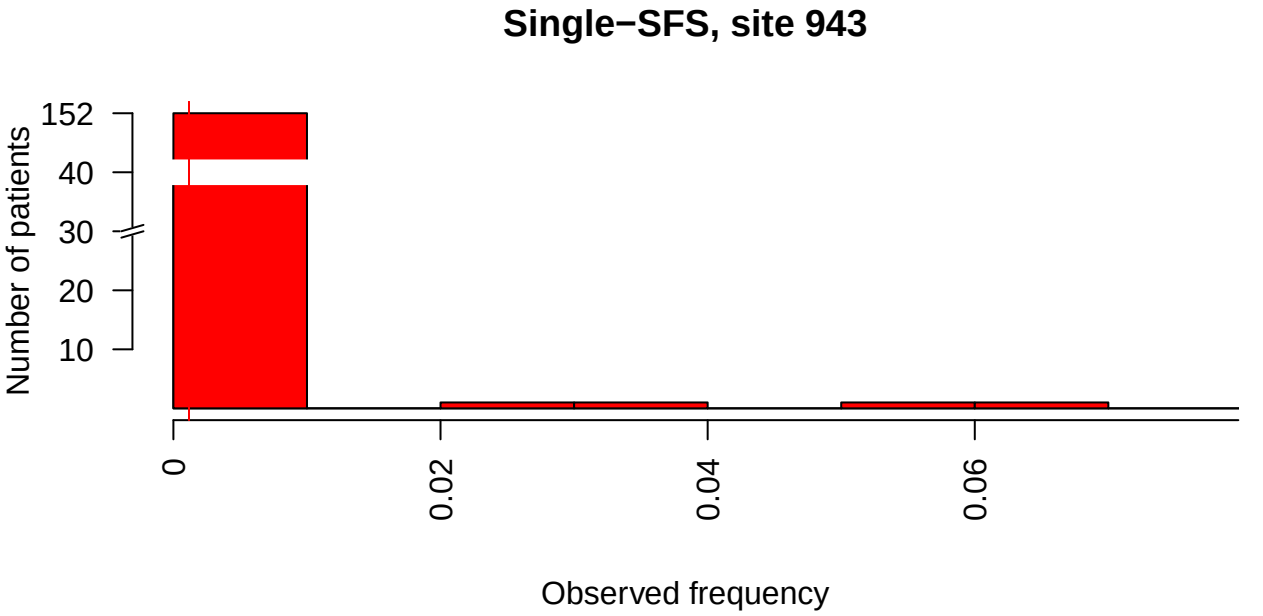

Simulated data, cost 0.0024
Number of patients
128
40
30
20
10
pvalue= 0.287
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
0.24
0.26
0.28
0.3
Observed frequency

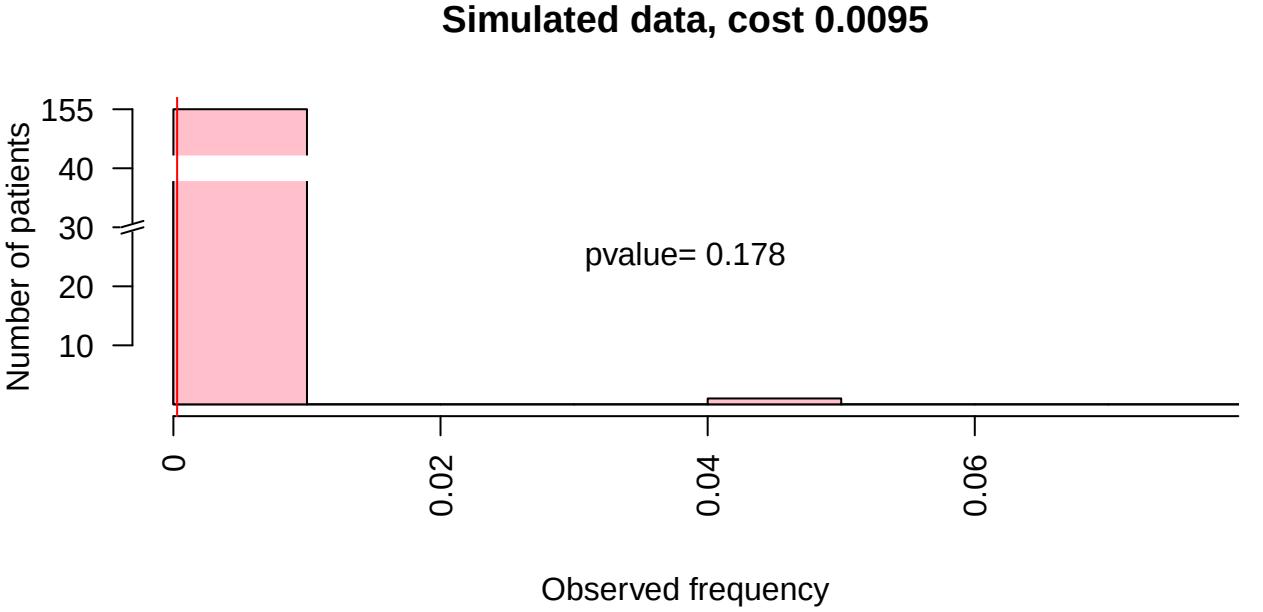

Single−SFS, site 938
Number of patients
136
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
Observed frequency

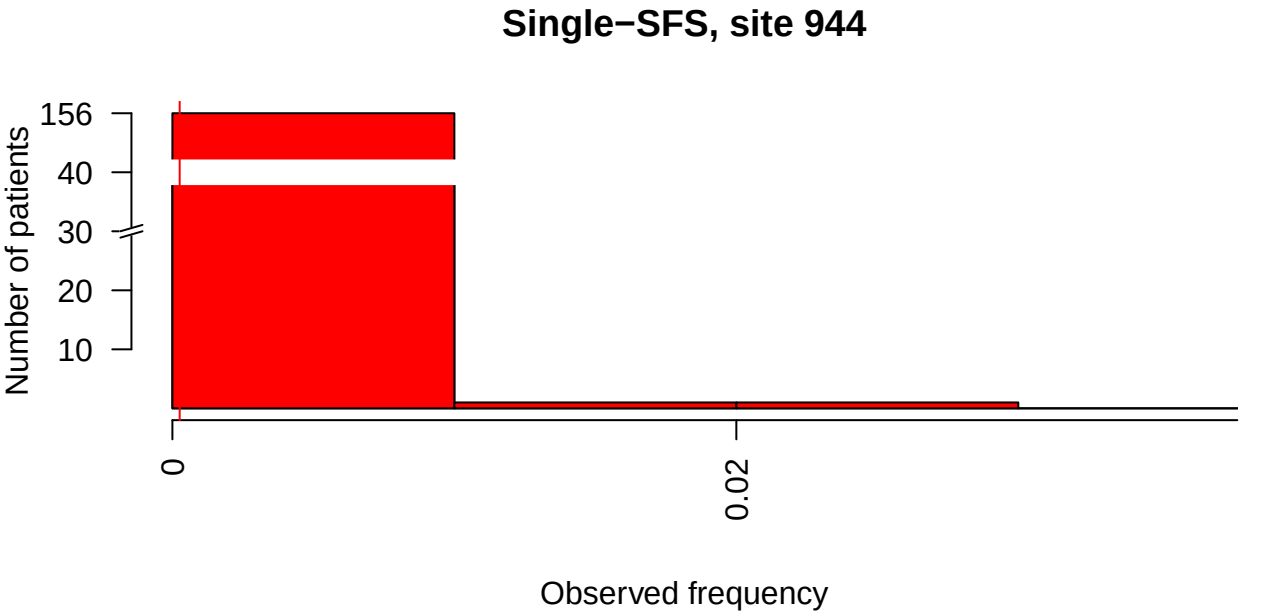

Simulated data, cost 0.0128
Number of patients
137
40
30
20
10
pvalue= 0.559
0
0.02
0.04
0.06
0.08
0.1
Observed frequency

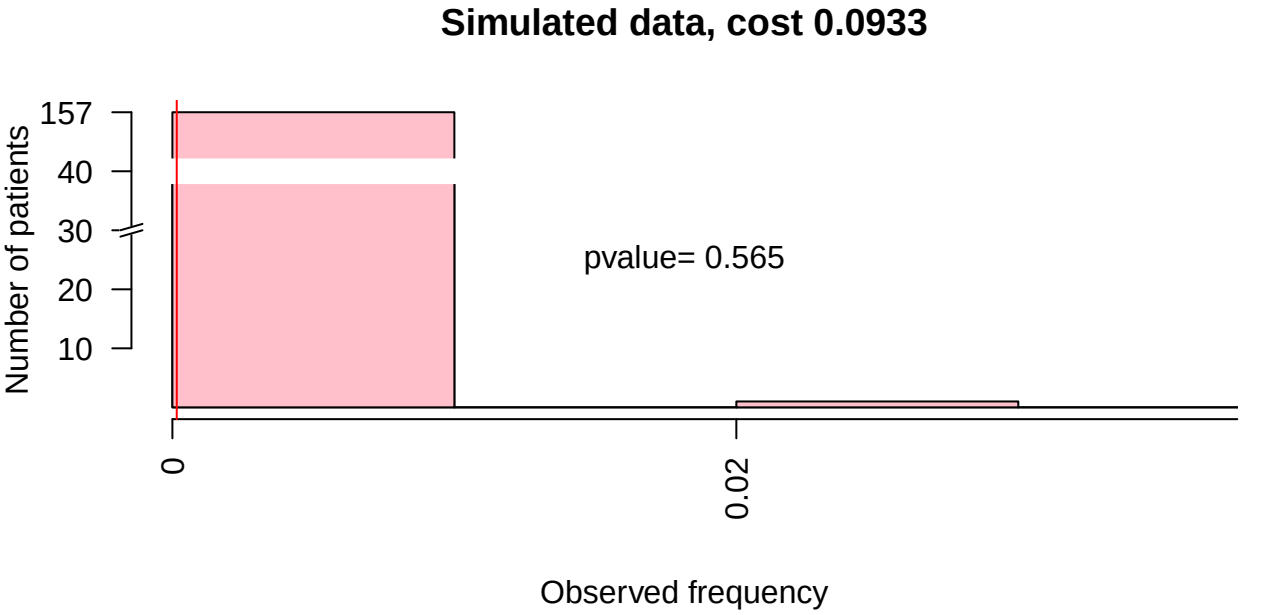

Single−SFS, site 939
Number of patients
119
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
Observed frequency

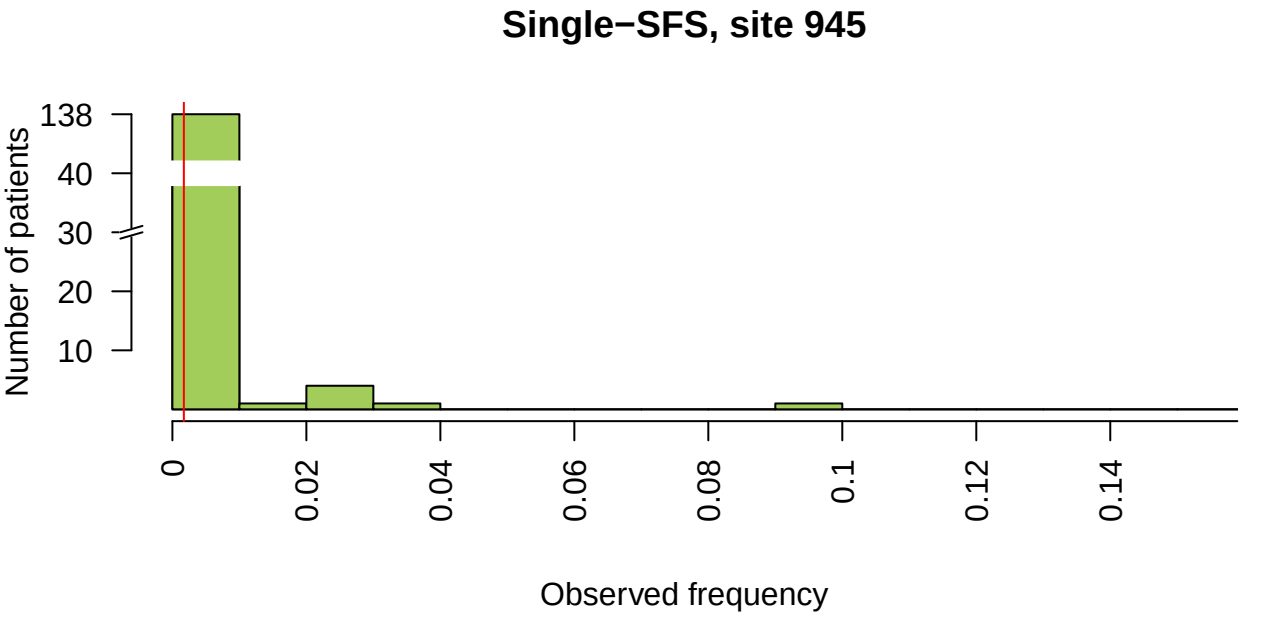

Simulated data, cost 0.0043
Number of patients
121
40
30
20
10
pvalue= 0.548
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
Observed frequency

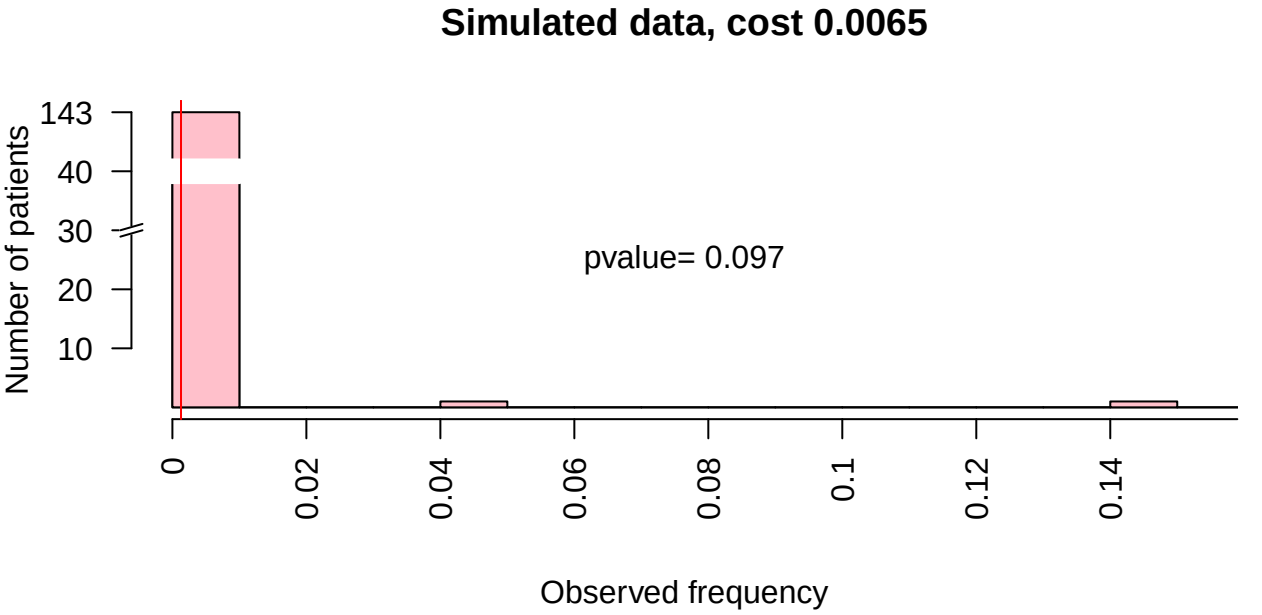

Single−SFS, site 943
Number of patients
152
40
30
20
10
0
0.02
0.04
0.06
Observed frequency

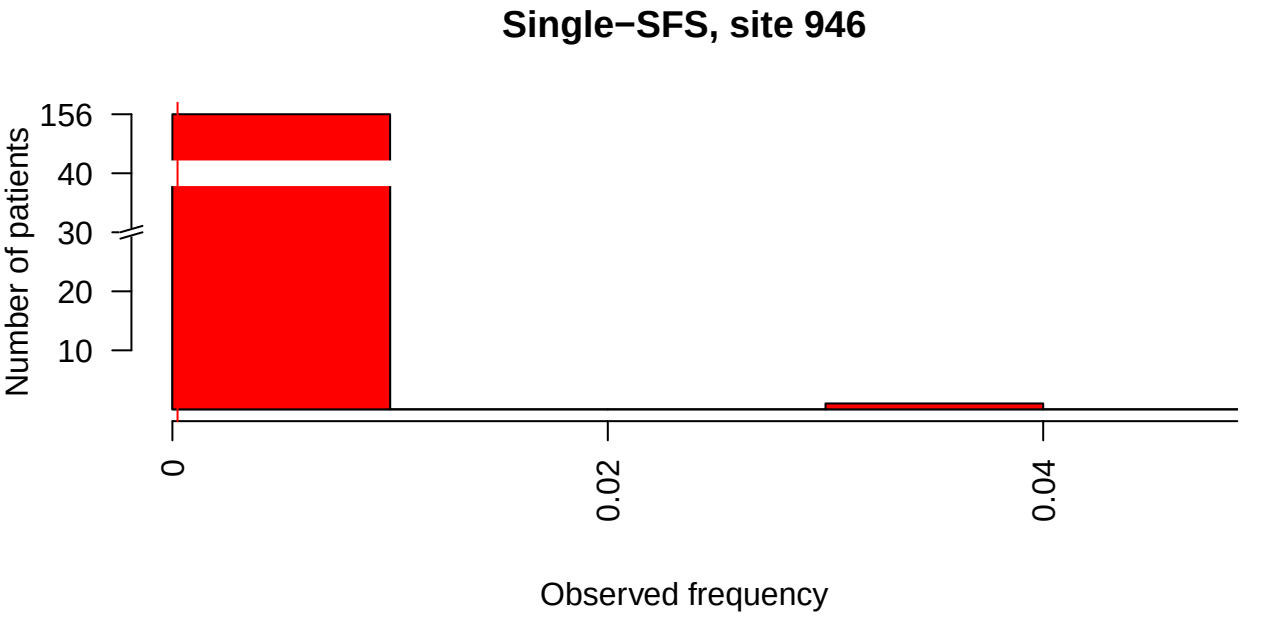

Simulated data, cost 0.0095
Number of patients
155
40
30
20
10
pvalue= 0.178
0
0.02
0.04
0.06
Observed frequency

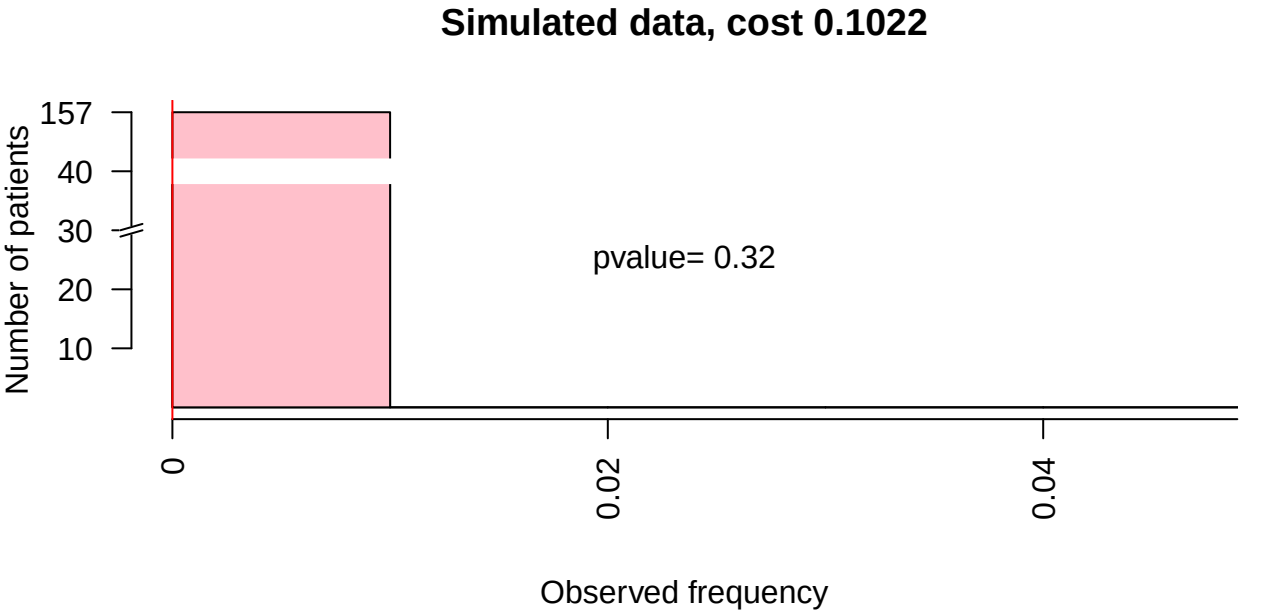

Single−SFS, site 944
Number of patients
156
40
30
20
10
0
0.02
Observed frequency

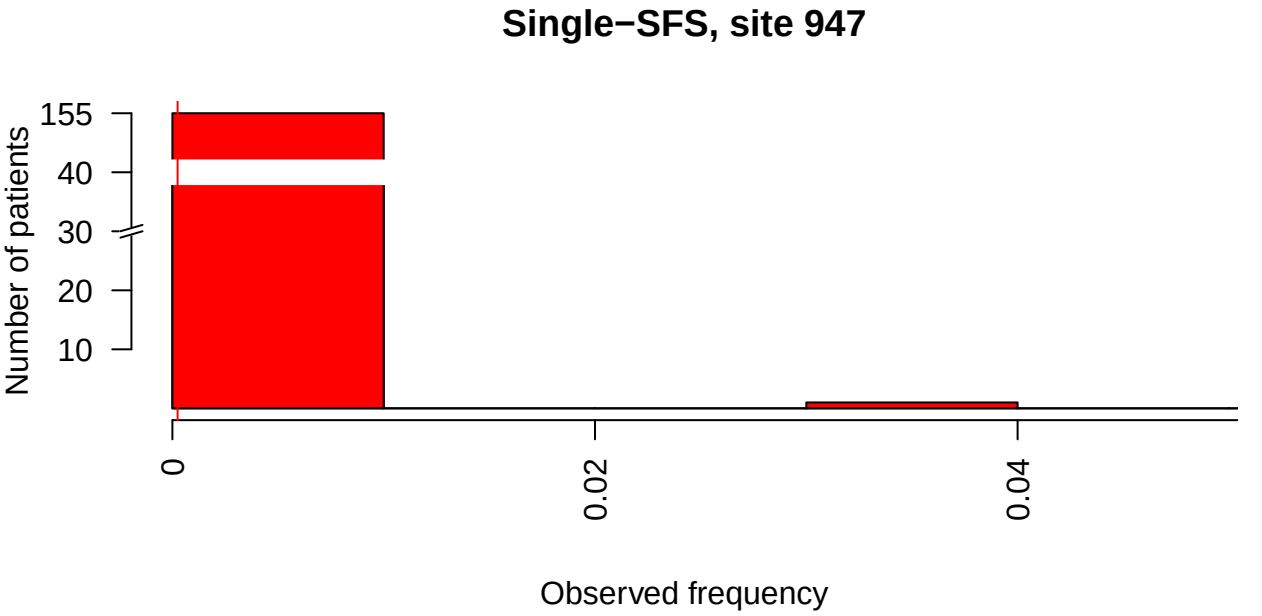

Simulated data, cost 0.0933
Number of patients
157
40
30
20
10
pvalue= 0.565
0
0.02
Observed frequency

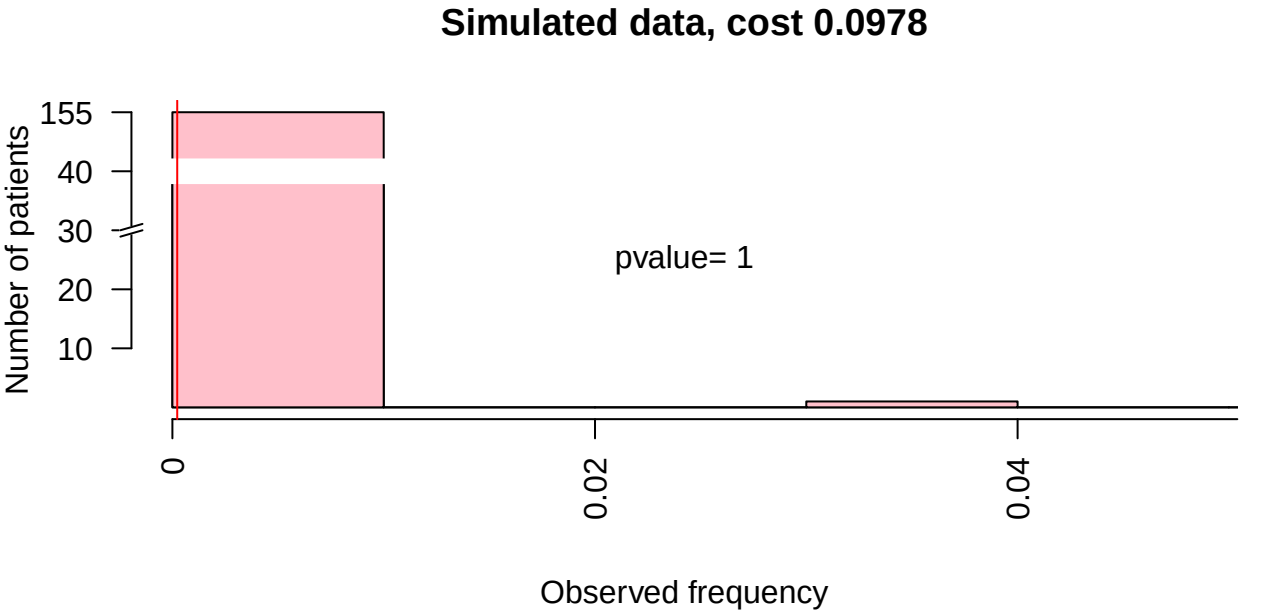

Single−SFS, site 945
Number of patients
138
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
Observed frequency

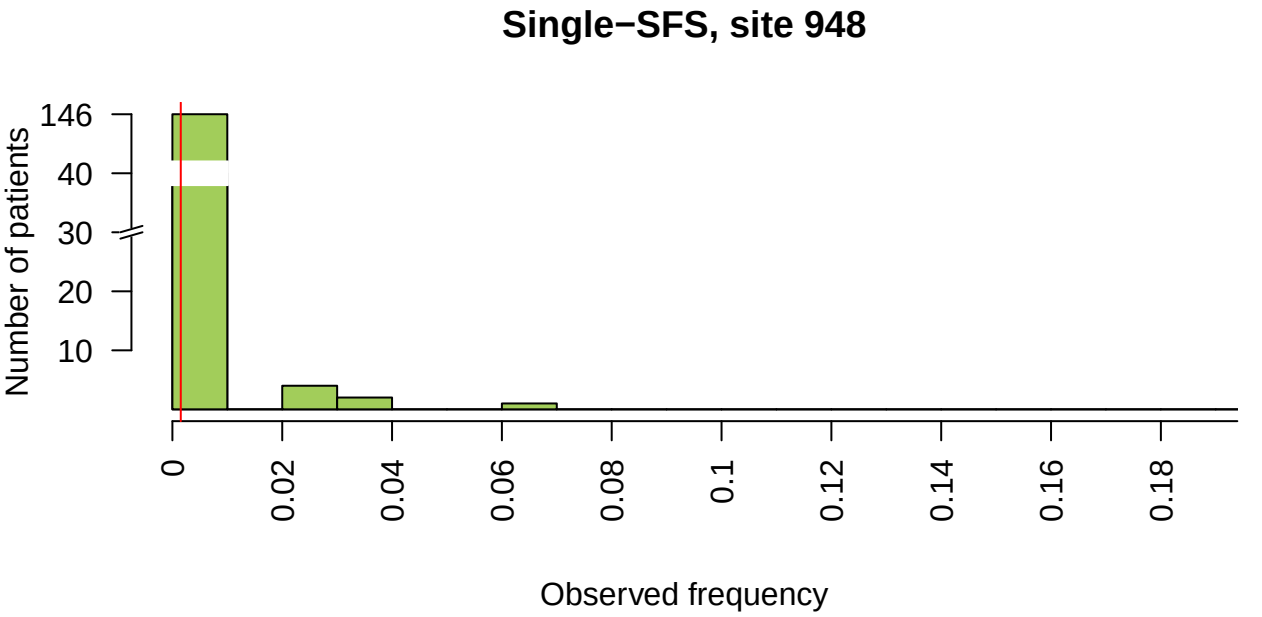

Simulated data, cost 0.0065
Number of patients
143
40
30
20
10
pvalue= 0.097
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
Observed frequency

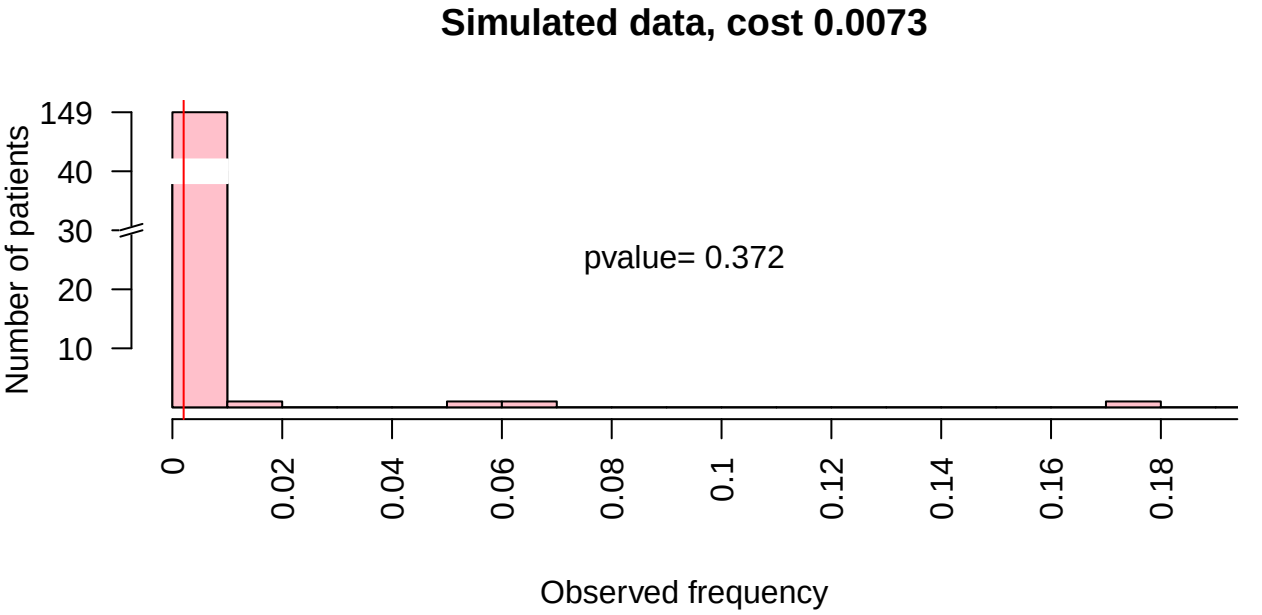

Single−SFS, site 946
Number of patients
156
40
30
20
10
0
0.02
0.04
Observed frequency

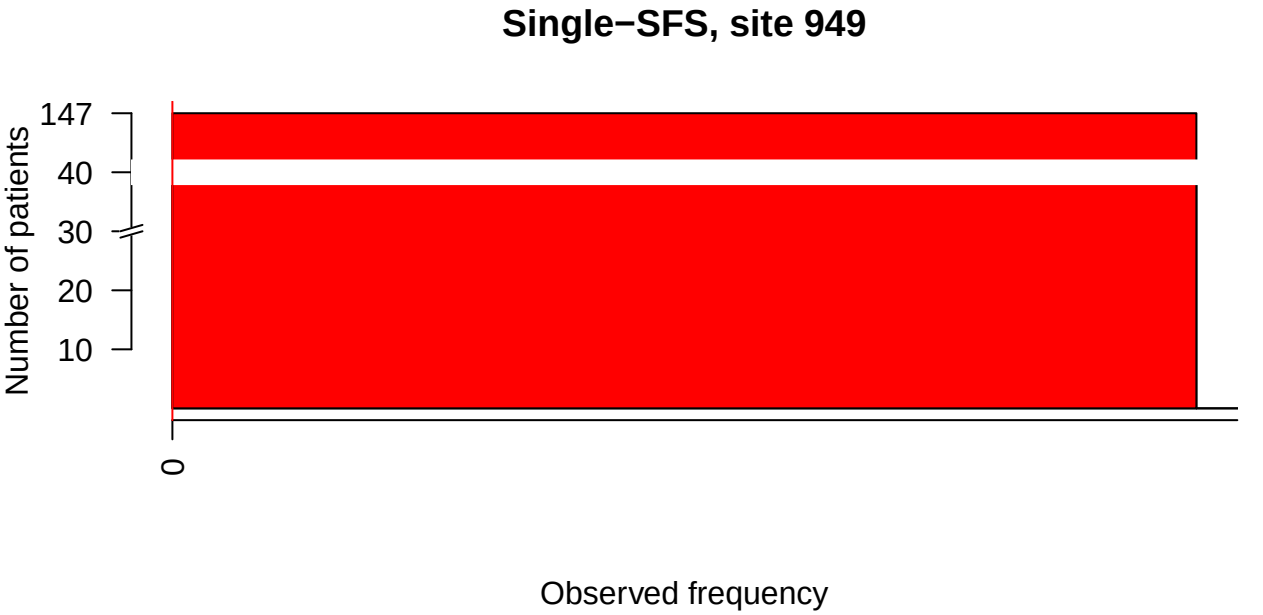

Simulated data, cost 0.1022
Number of patients
157
40
30
20
10
pvalue= 0.32
0
0.02
0.04
Observed frequency

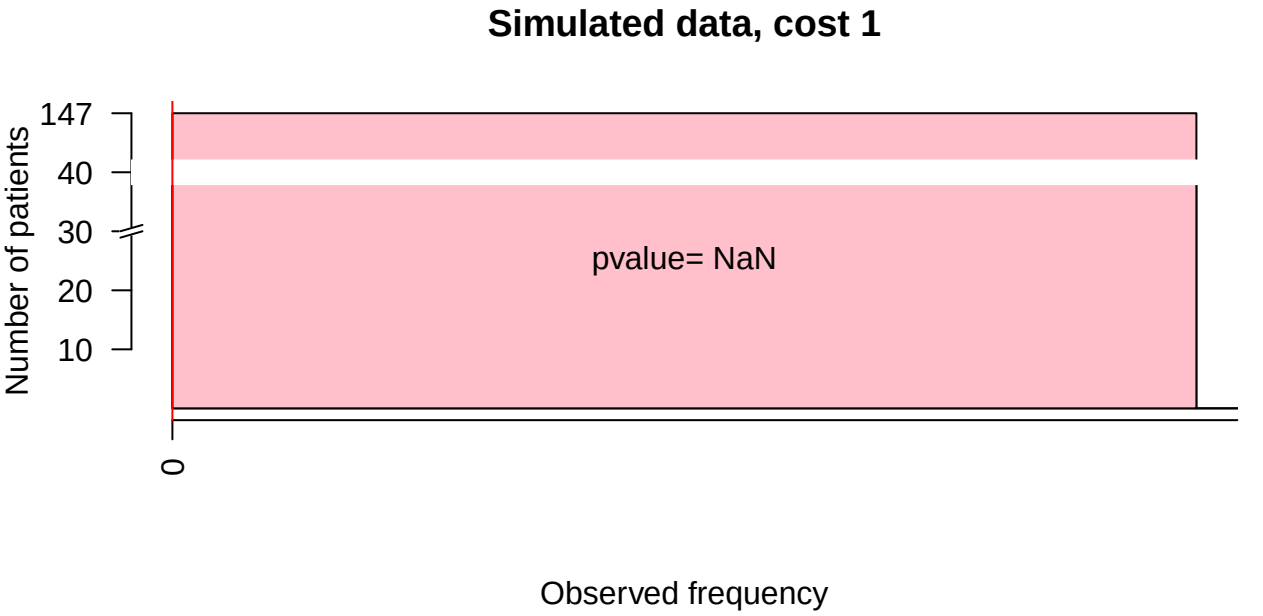

Single−SFS, site 947
Number of patients
155
40
30
20
10
0
0.02
0.04
Observed frequency

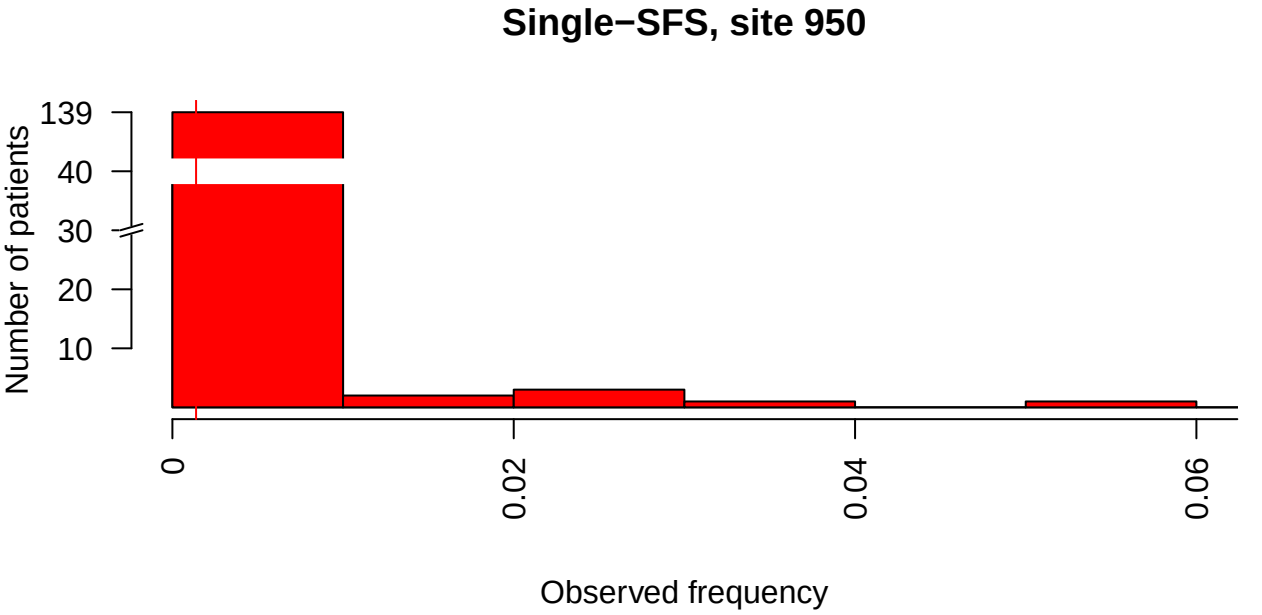

Simulated data, cost 0.0978
Number of patients
155
40
30
20
10
pvalue= 1
0
0.02
0.04
Observed frequency

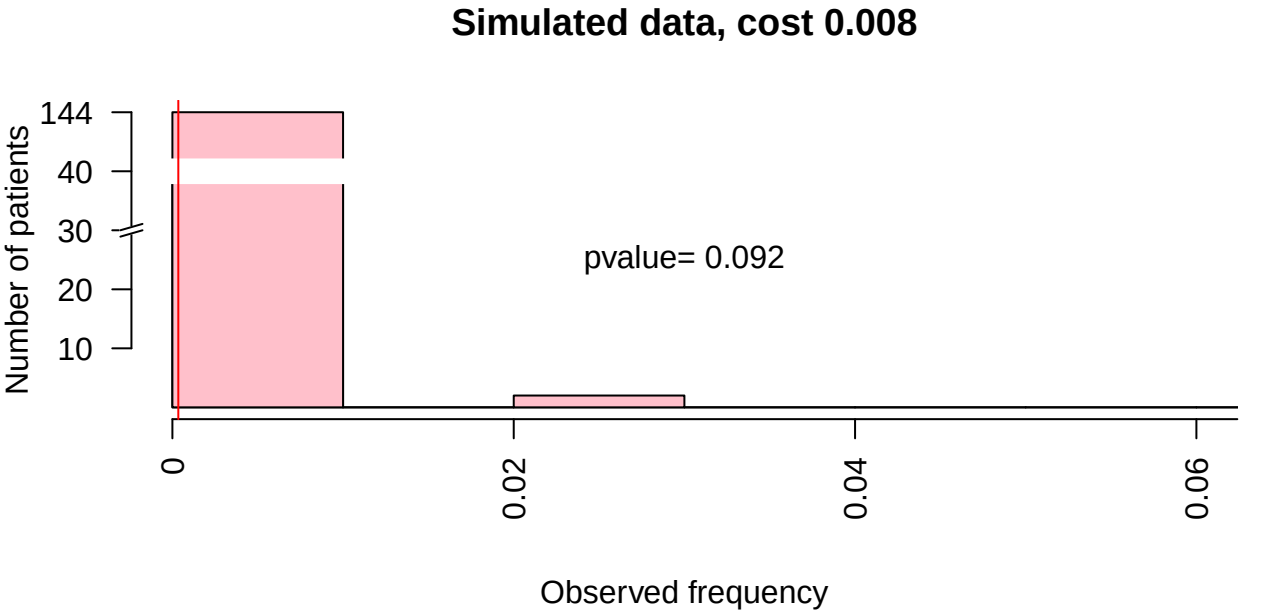

Single−SFS, site 948
Number of patients
146
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
Observed frequency

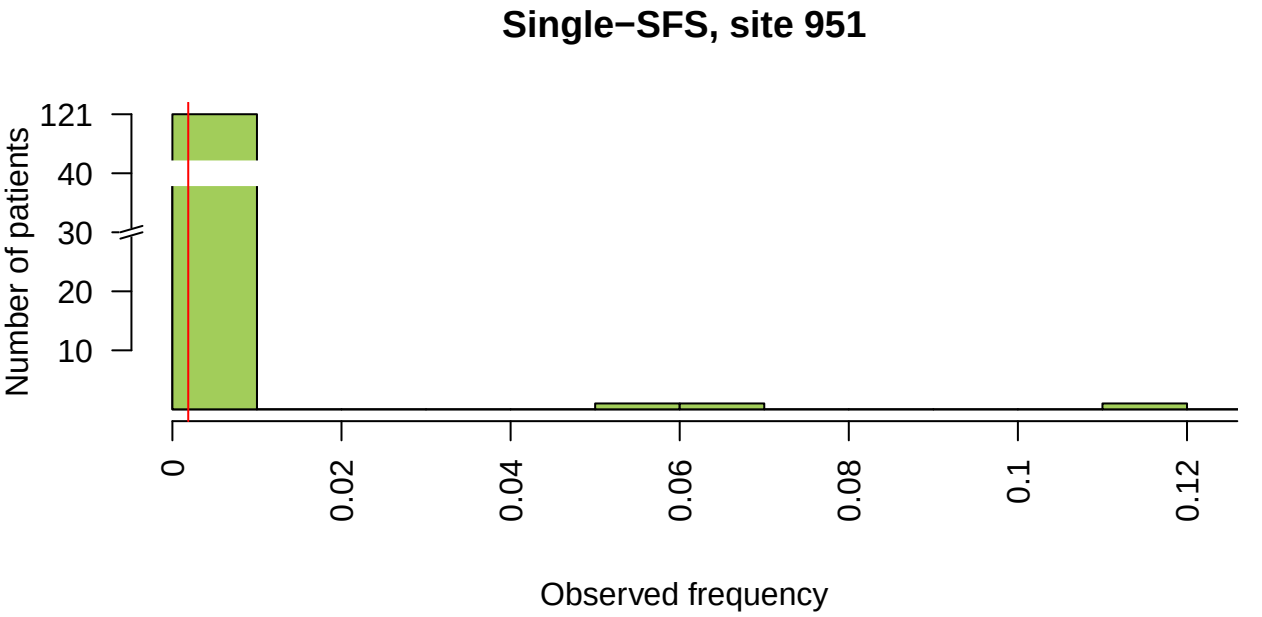

Simulated data, cost 0.0073
Number of patients
149
40
30
20
10
pvalue= 0.372
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
Observed frequency

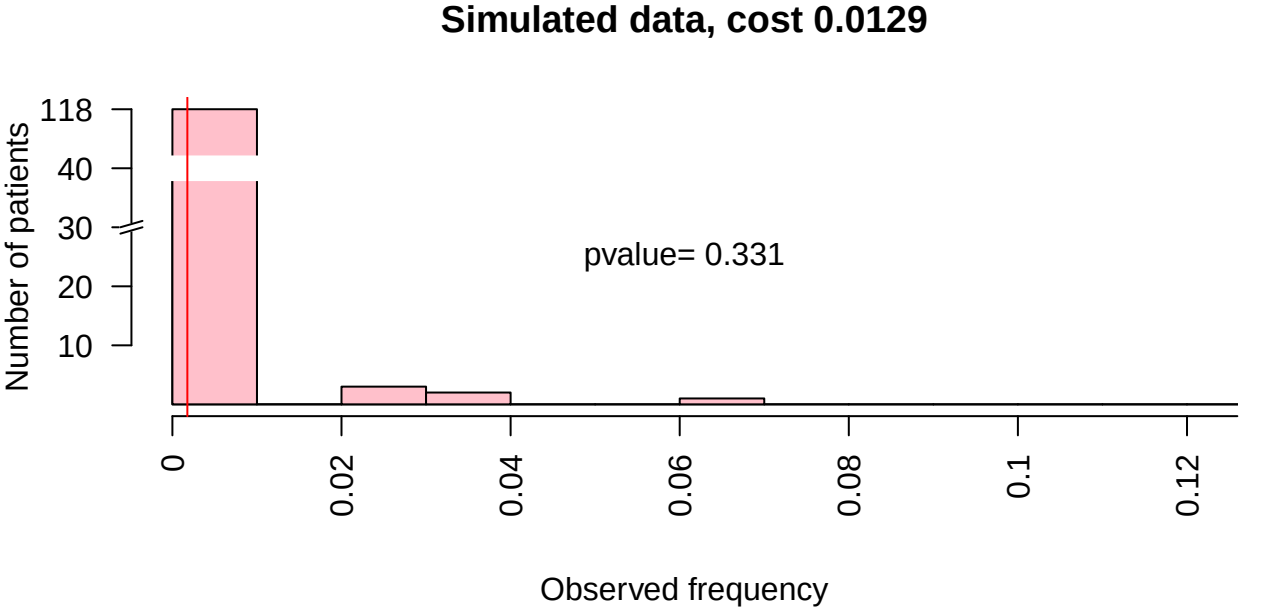

Single−SFS, site 949
Number of patients
147
40
30
20
10
0
Observed frequency

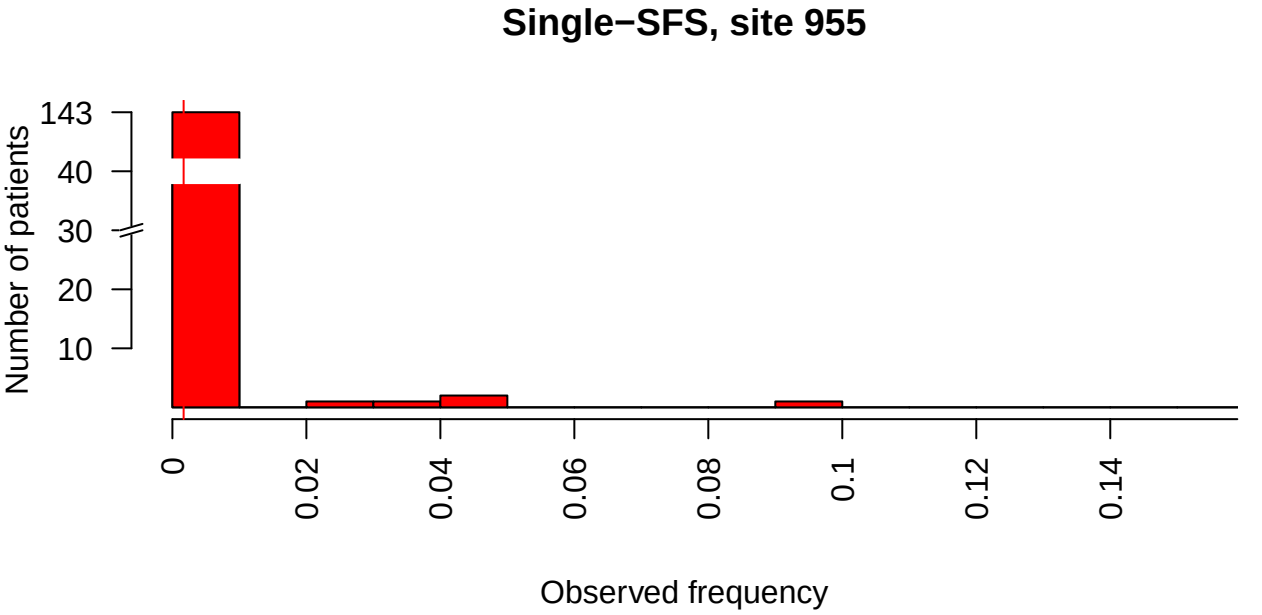

Simulated data, cost 1
Number of patients
147
40
30
20
10
0
pvalue= NaN
Observed frequency

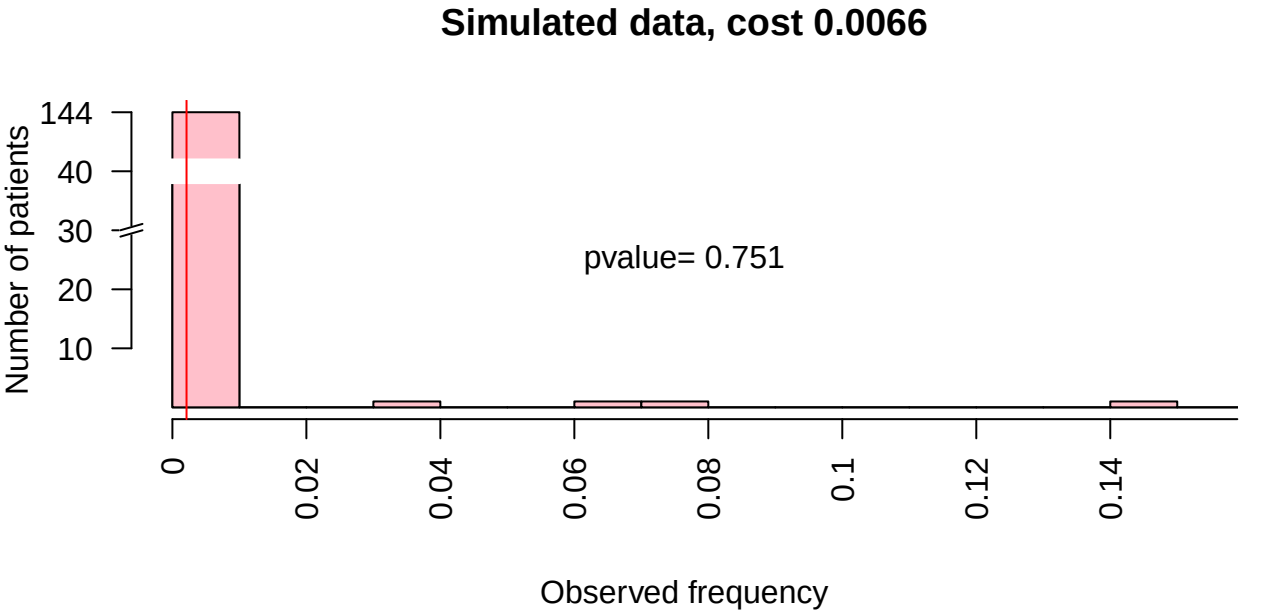

Single−SFS, site 950
Number of patients
139
40
30
20
10
0
0.02
0.04
0.06
Observed frequency

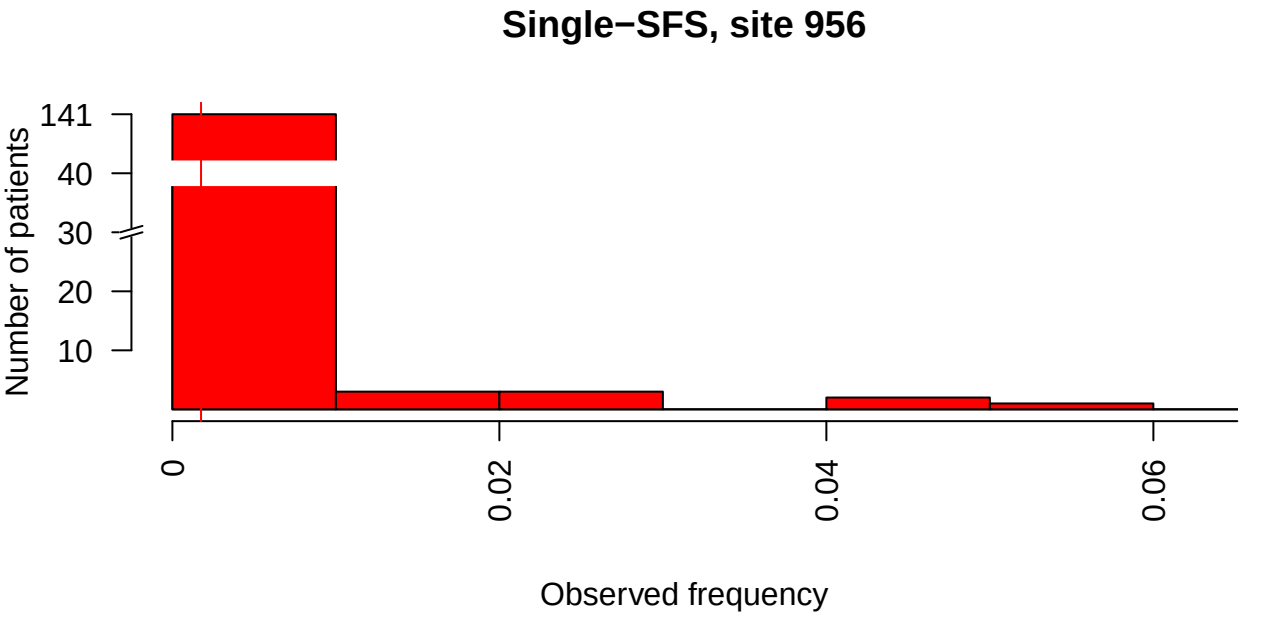

Simulated data, cost 0.008
Number of patients
144
40
30
20
10
pvalue= 0.092
0
0.02
0.04
0.06
Observed frequency

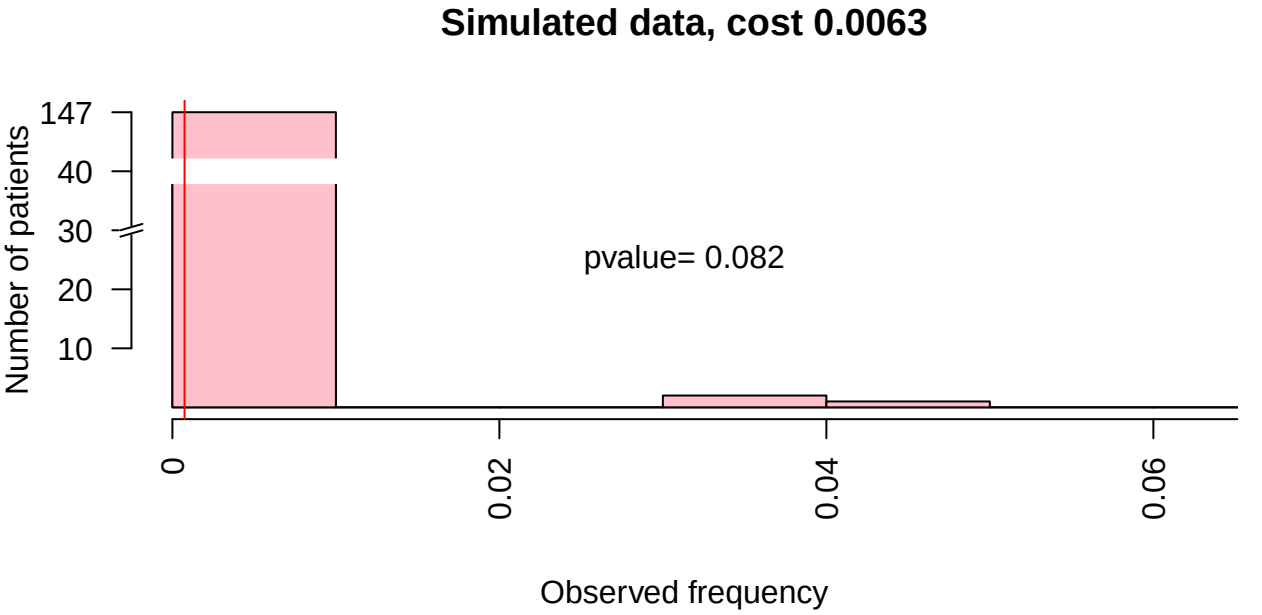

Single−SFS, site 951
Number of patients
121
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
Observed frequency

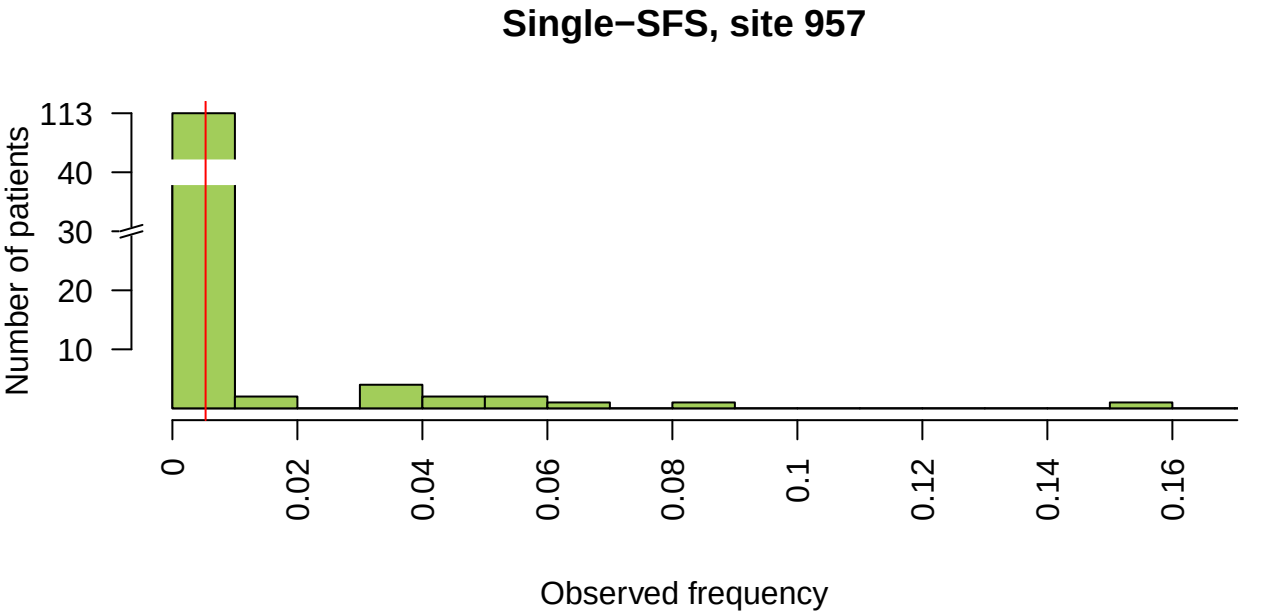

Simulated data, cost 0.0129
Number of patients
118
40
30
20
10
pvalue= 0.331
0
0.02
0.04
0.06
0.08
0.1
0.12
Observed frequency

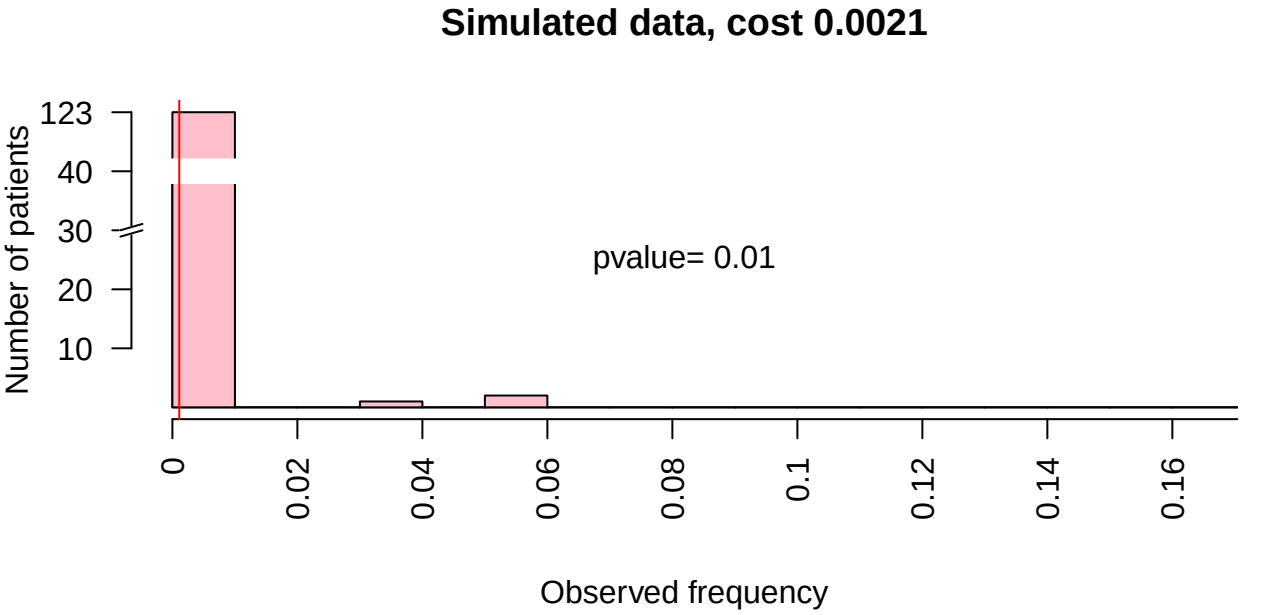

Single−SFS, site 955
Number of patients
143
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
Observed frequency

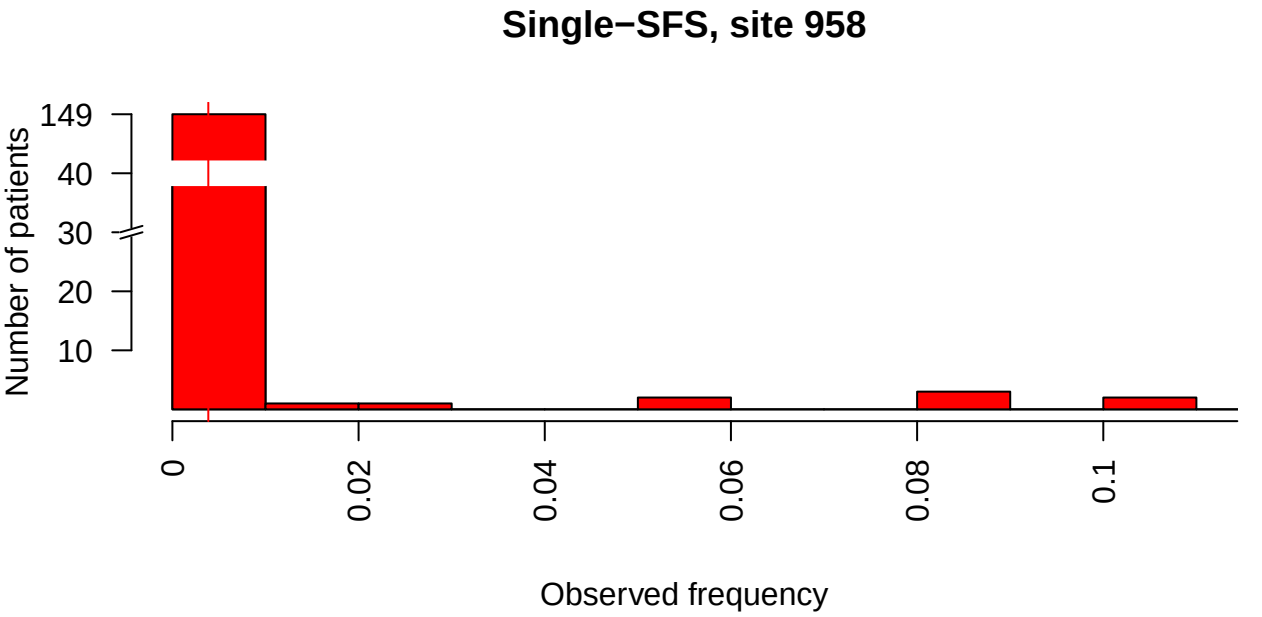

Simulated data, cost 0.0066
Number of patients
144
40
30
20
10
pvalue= 0.751
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
Observed frequency

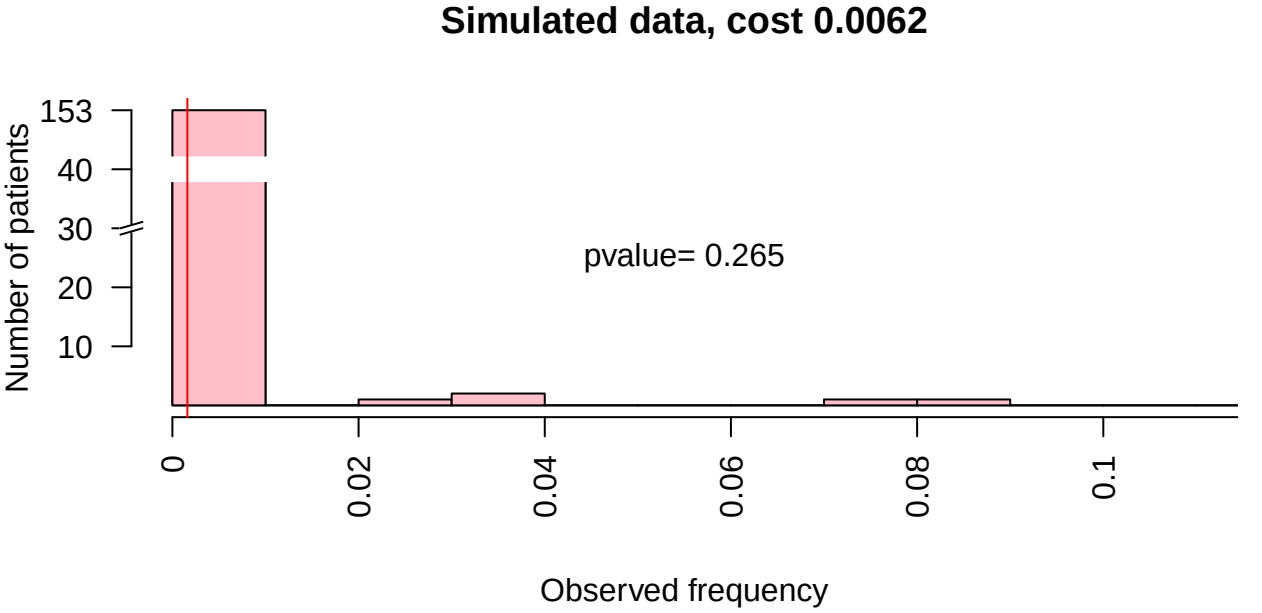

Single−SFS, site 956
Number of patients
141
40
30
20
10
0
0.02
0.04
0.06
Observed frequency

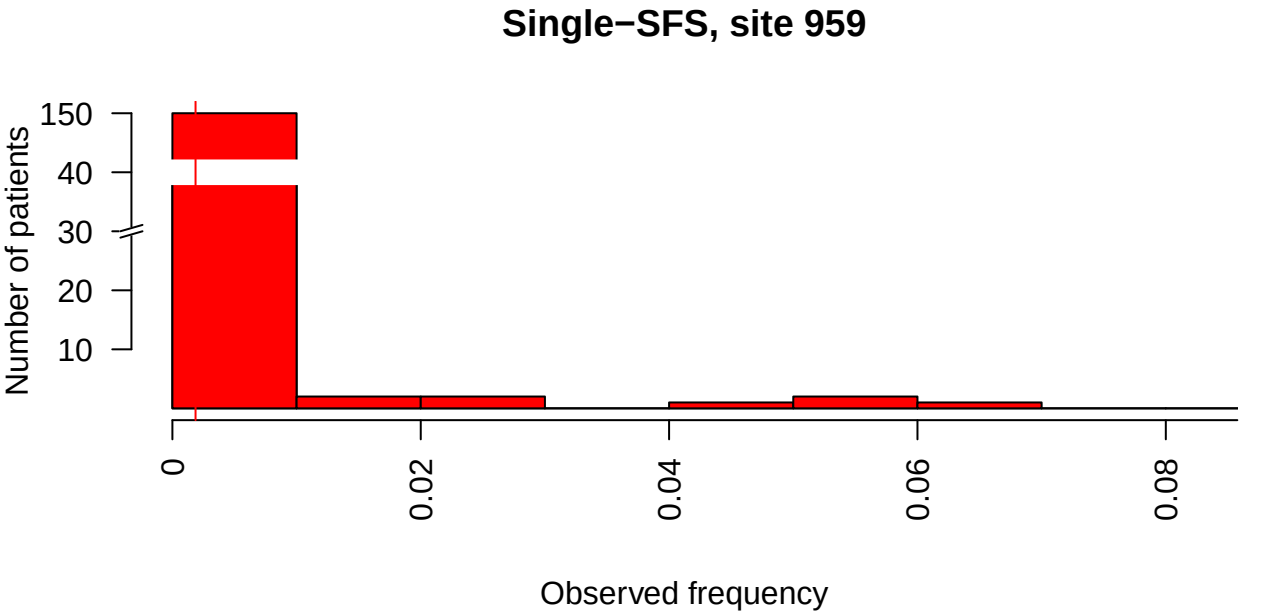

Simulated data, cost 0.0063
Number of patients
147
40
30
20
10
pvalue= 0.082
0
0.02
0.04
0.06
Observed frequency

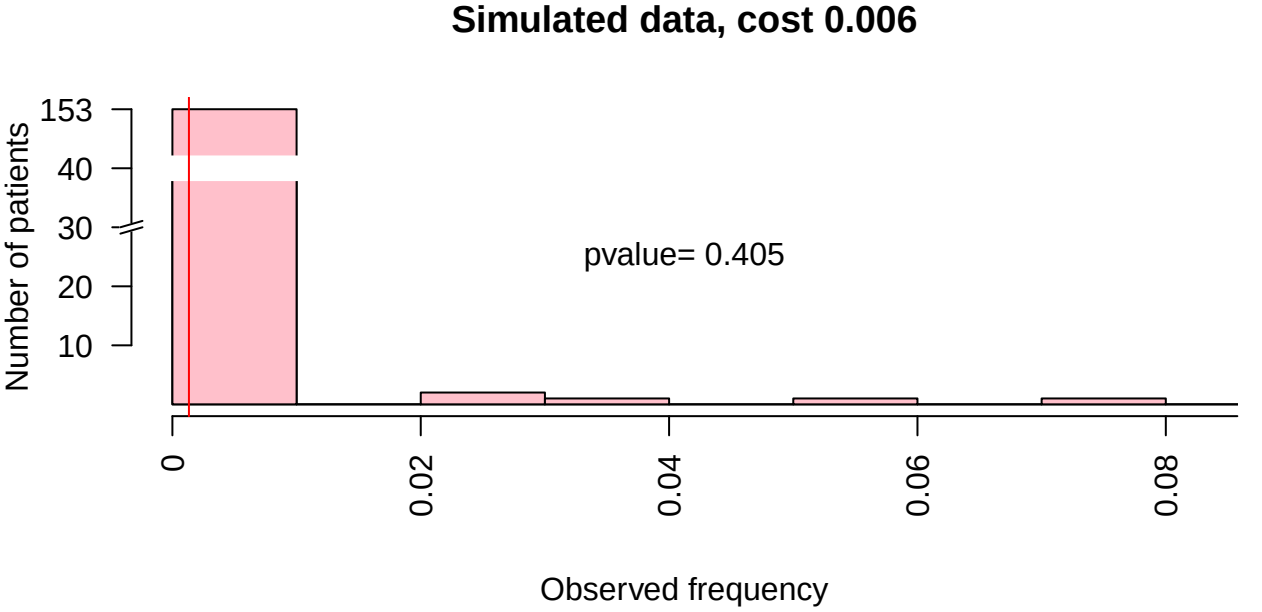

Single−SFS, site 957
Number of patients
113
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
Observed frequency

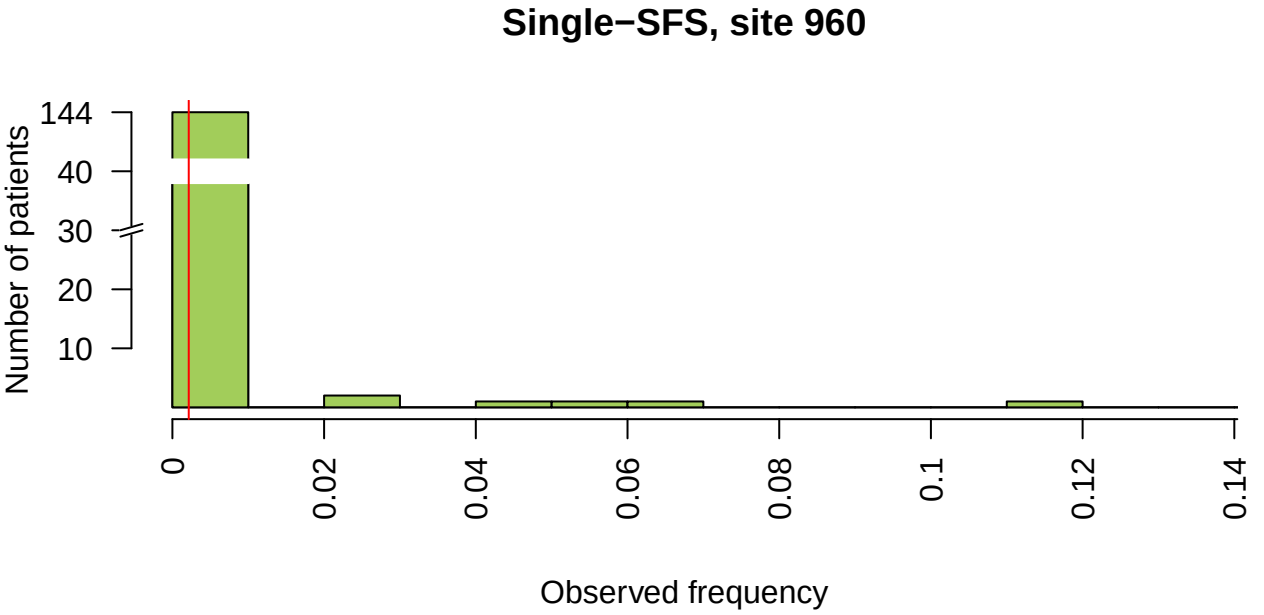

Simulated data, cost 0.0021
Number of patients
123
40
30
20
10
pvalue= 0.01
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
Observed frequency

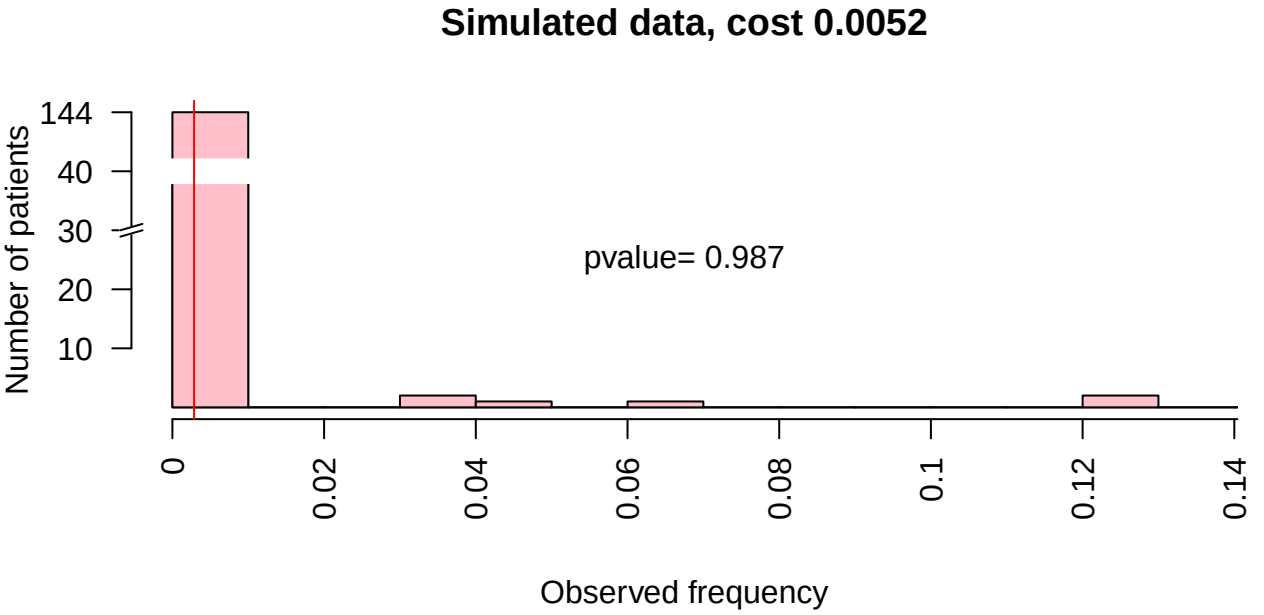

Single−SFS, site 958
Number of patients
149
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
Observed frequency

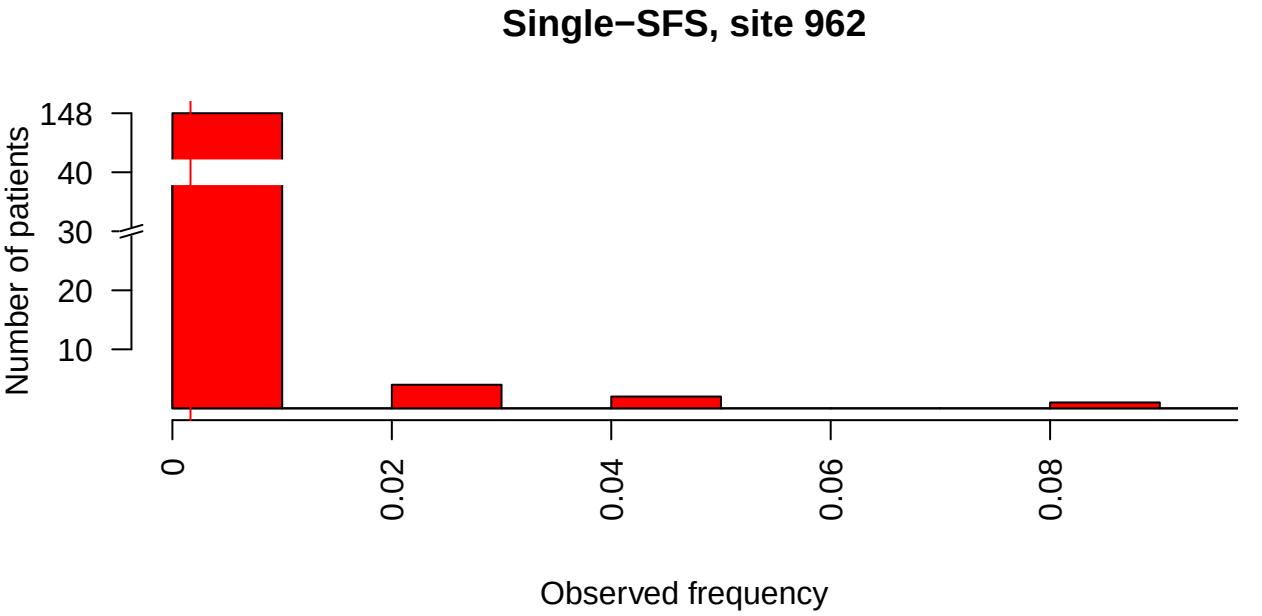

Simulated data, cost 0.0062
Number of patients
153
40
30
20
10
pvalue= 0.265
0
0.02
0.04
0.06
0.08
0.1
Observed frequency

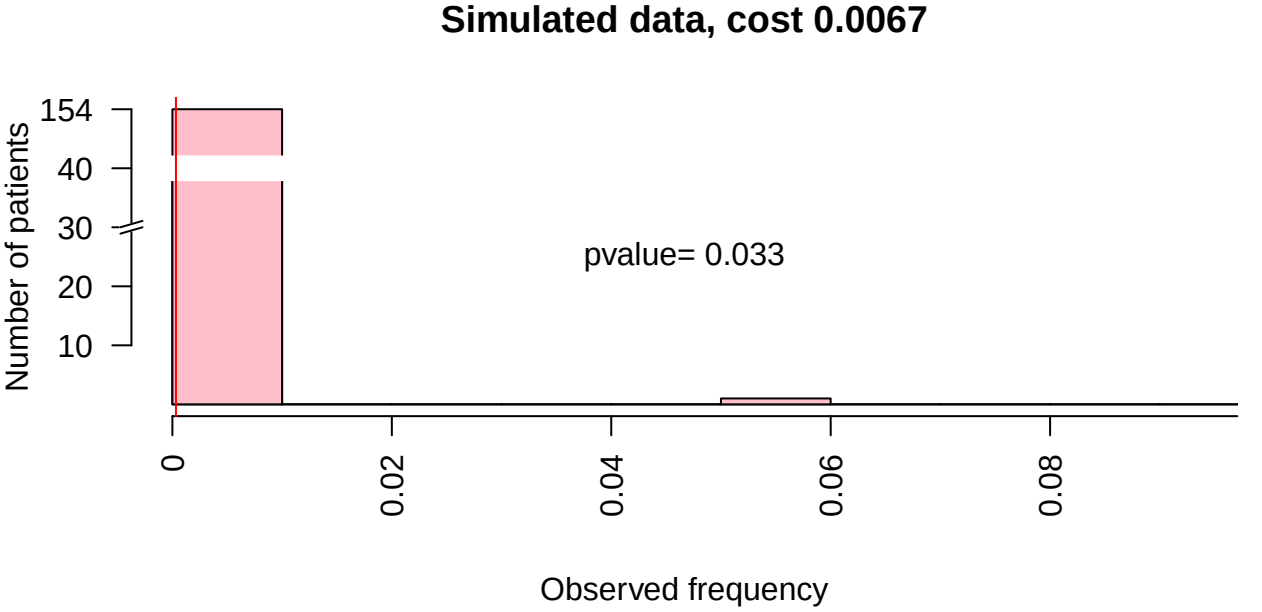

Single−SFS, site 959
Number of patients
150
40
30
20
10
0
0.02
0.04
0.06
0.08
Observed frequency

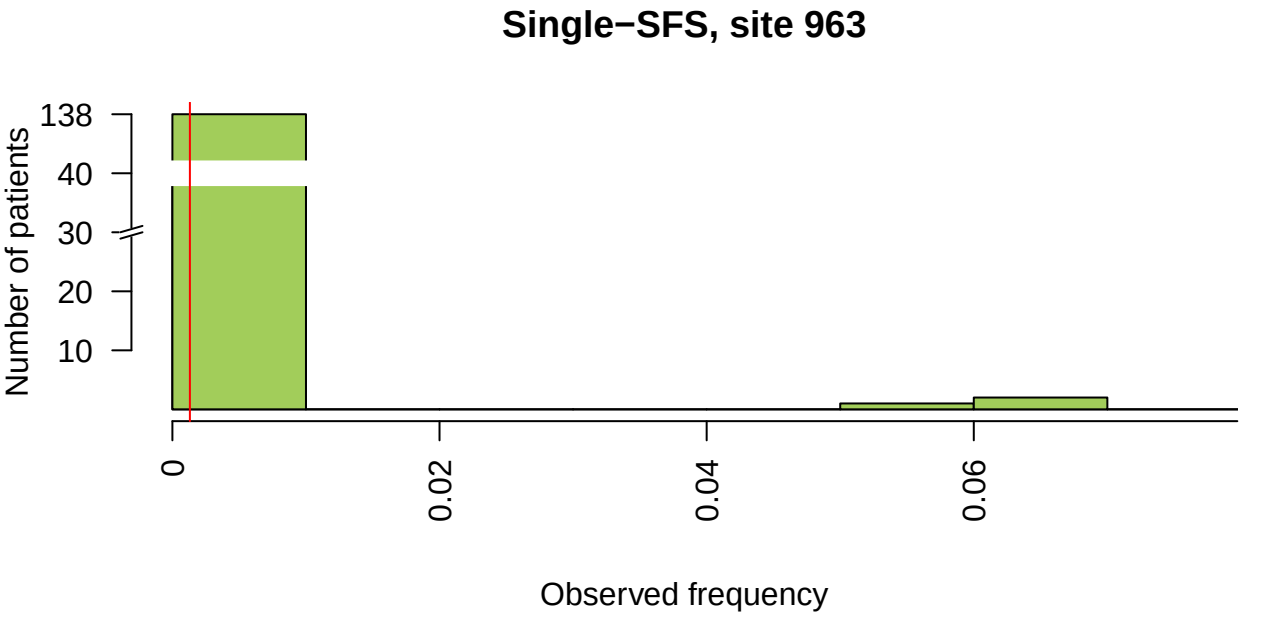

Simulated data, cost 0.006
Number of patients
153
40
30
20
10
pvalue= 0.405
0
0.02
0.04
0.06
0.08
Observed frequency

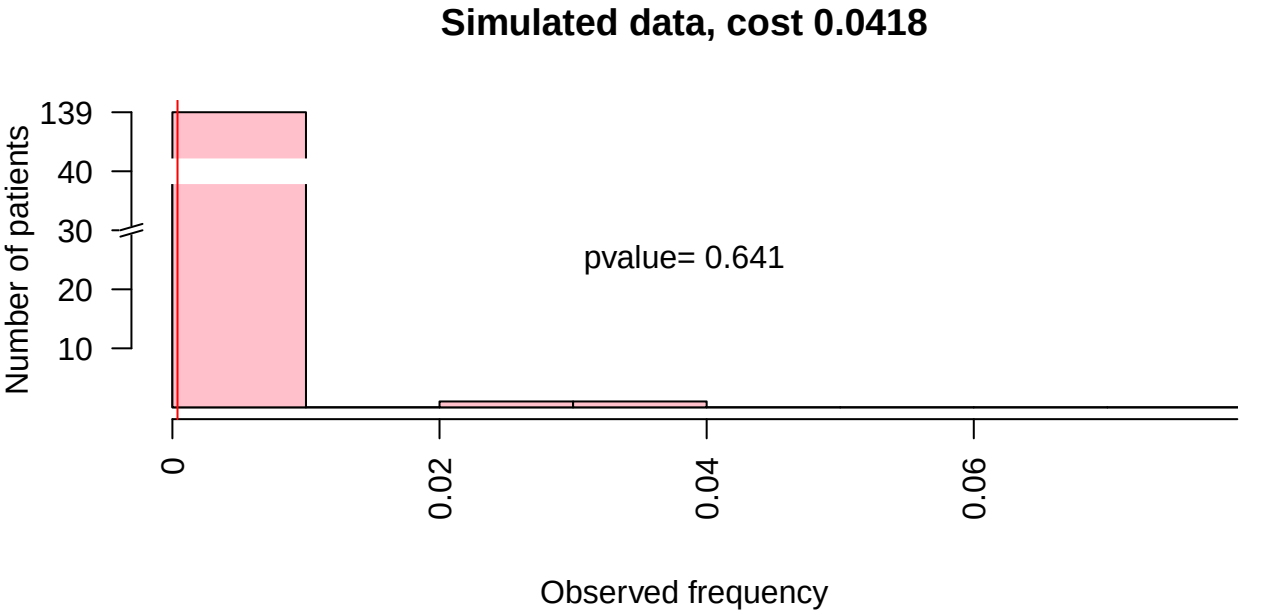

Single−SFS, site 960
Number of patients
144
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
Observed frequency

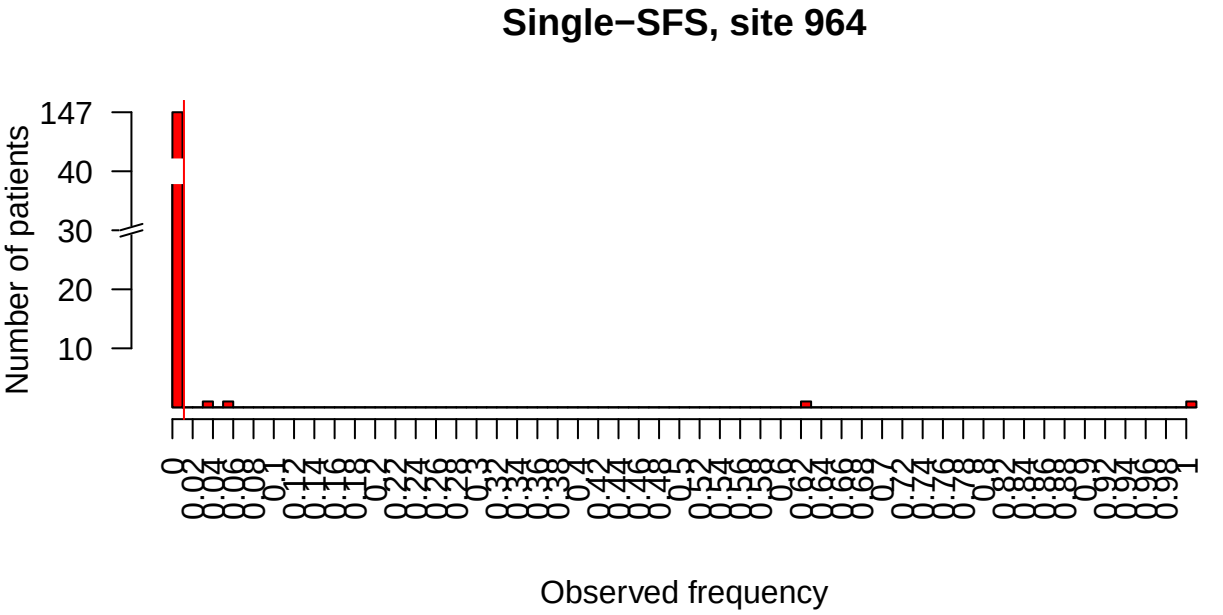

Simulated data, cost 0.0052
Number of patients
144
40
30
20
10
pvalue= 0.987
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
Observed frequency

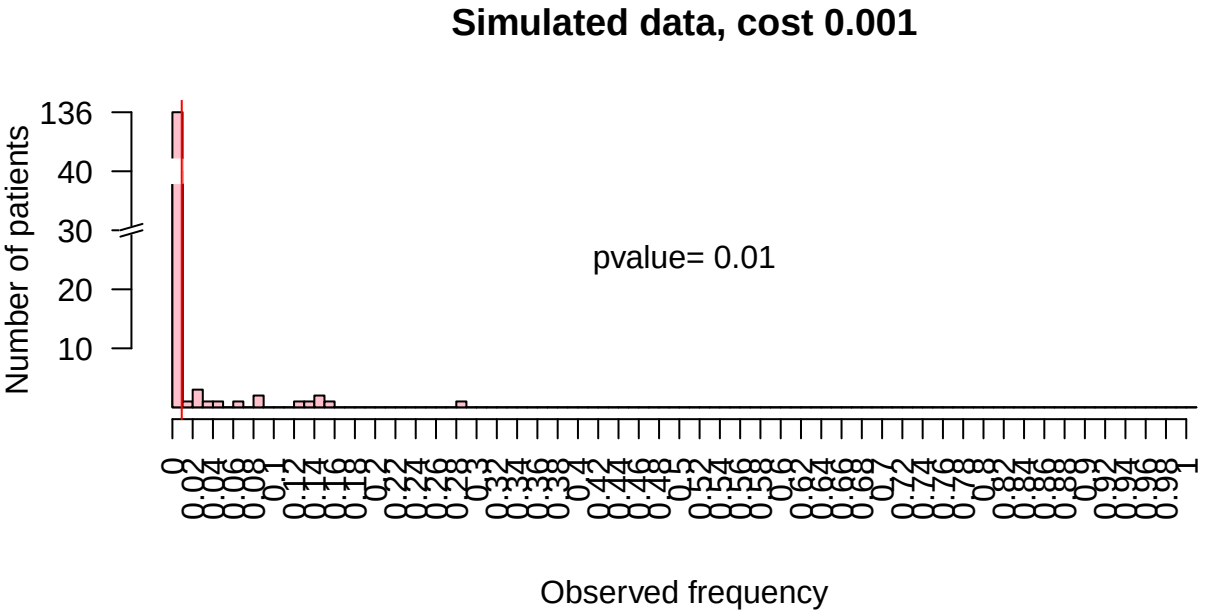

Single−SFS, site 962
Number of patients
148
40
30
20
10
0
0.02
0.04
0.06
0.08
Observed frequency

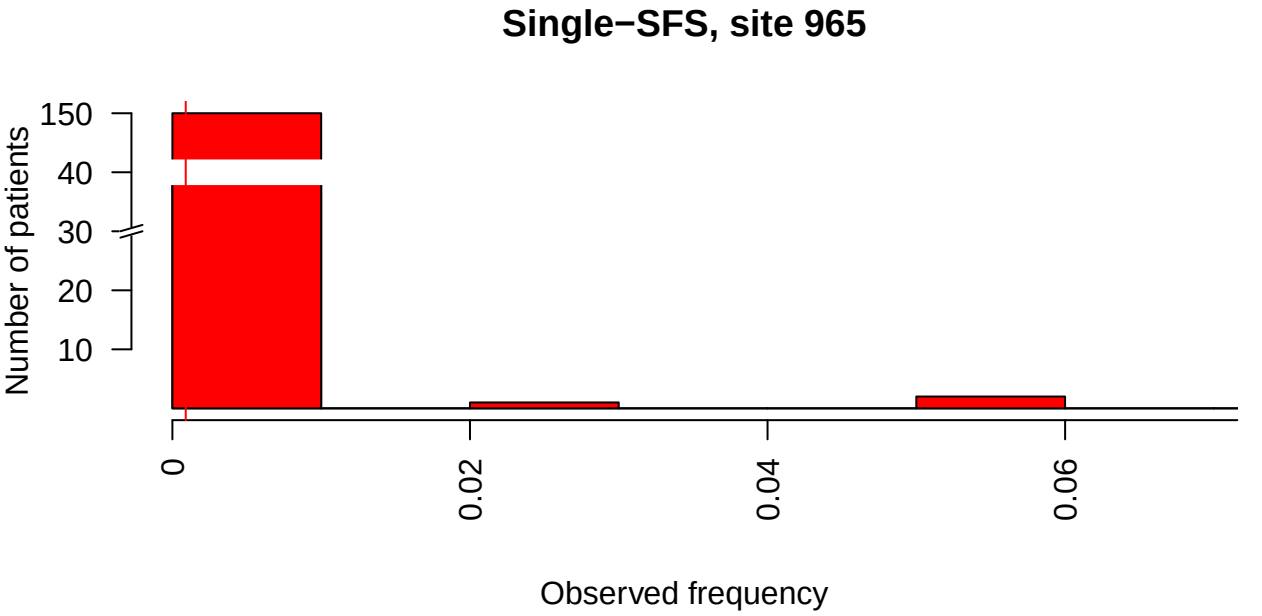

Simulated data, cost 0.0067
Number of patients
154
40
30
20
10
pvalue= 0.033
0
0.02
0.04
0.06
0.08
Observed frequency

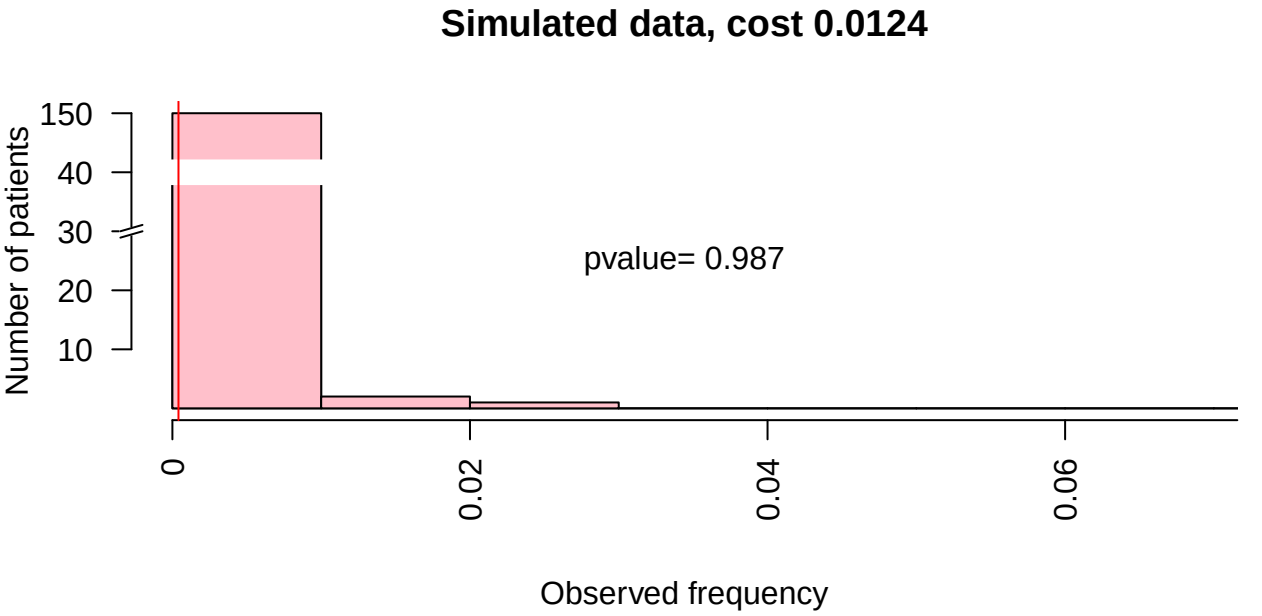

Single−SFS, site 963
Number of patients
138
40
30
20
10
0
0.02
0.04
0.06
Observed frequency

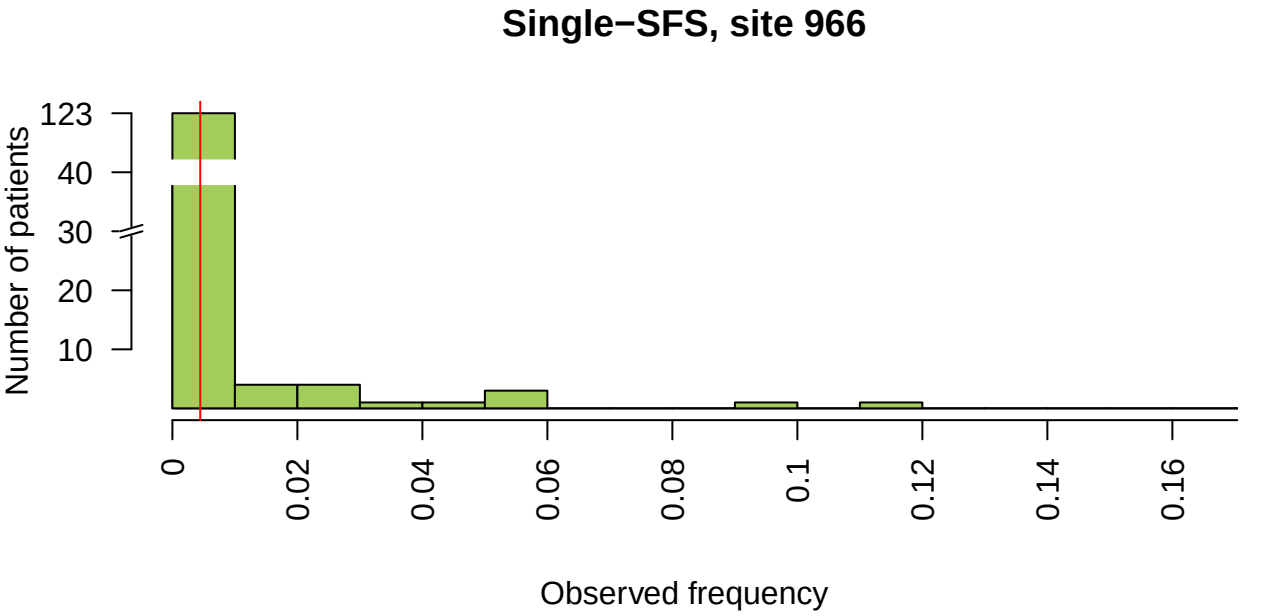

Simulated data, cost 0.0418
Number of patients
139
40
30
20
10
pvalue= 0.641
0
0.02
0.04
0.06
Observed frequency

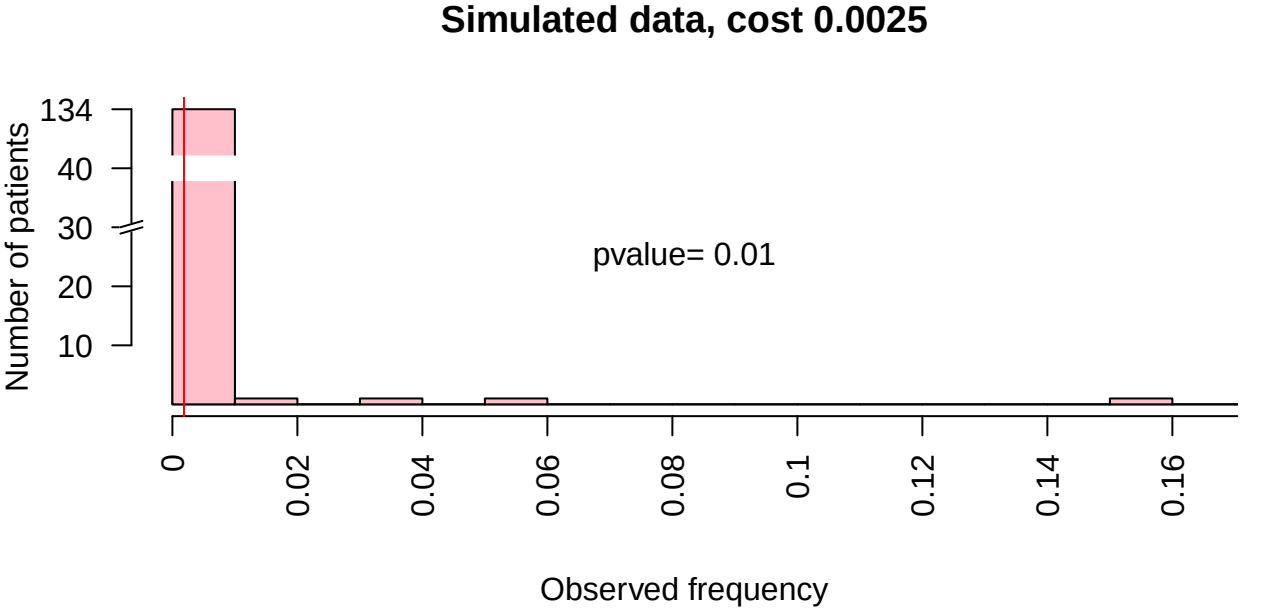

Single−SFS, site 964
Number of patients
147
40
30
20
10
Observed frequency

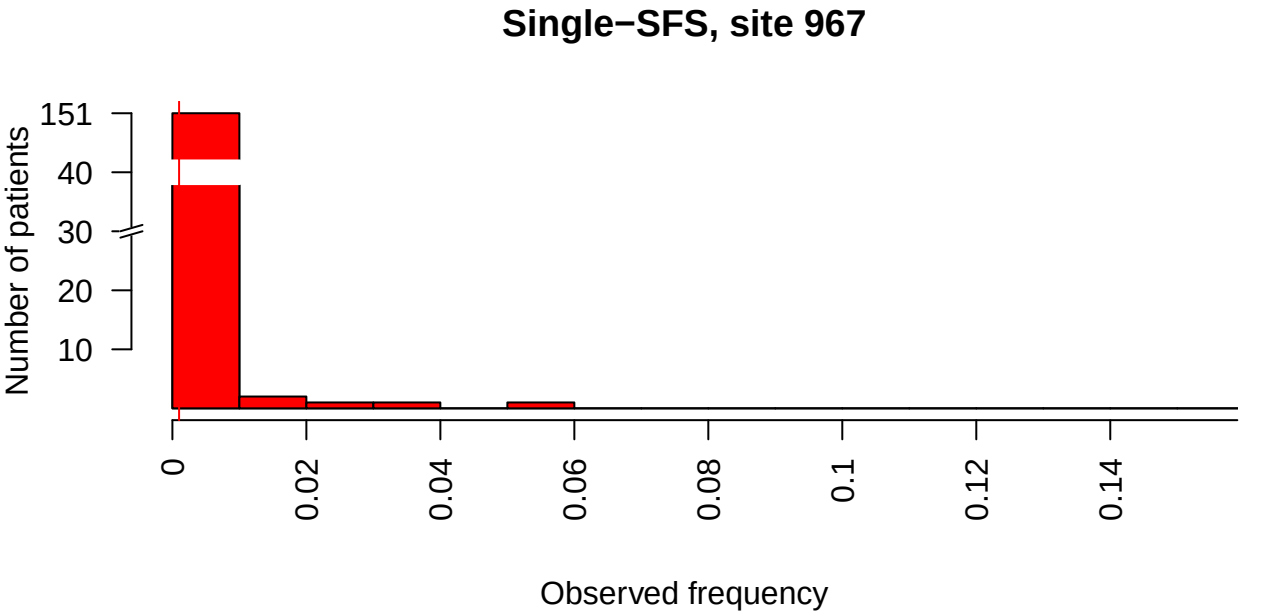

Simulated data, cost 0.001
Number of patients
136
40
30
20
10
pvalue= 0.01
Observed frequency

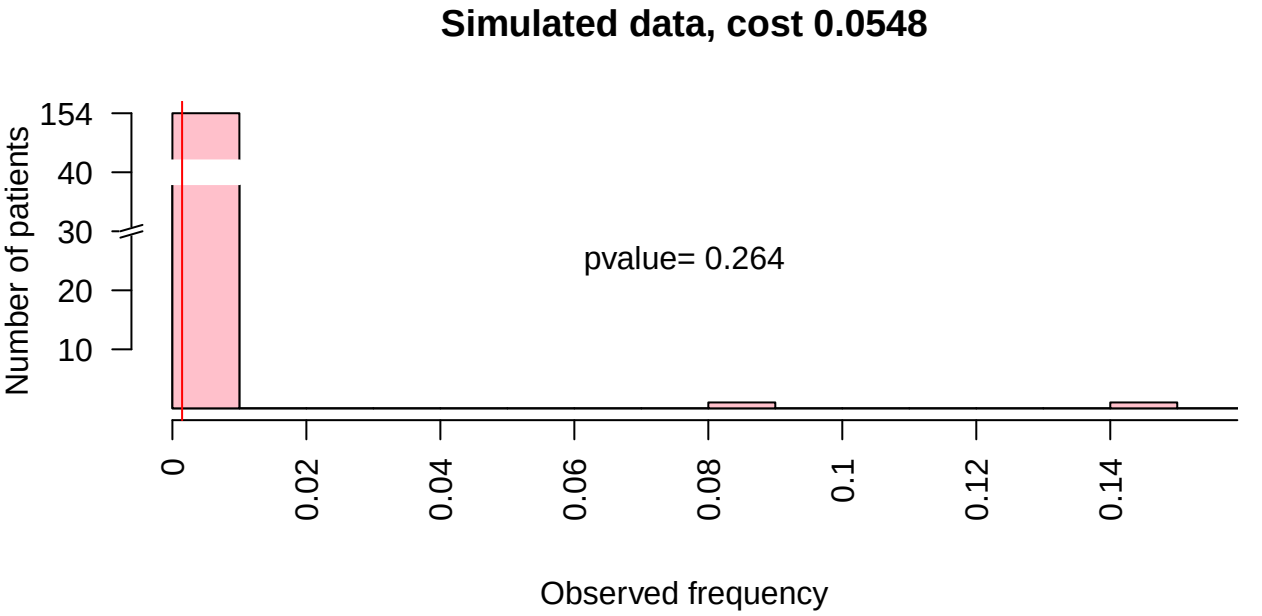

Single−SFS, site 965
Number of patients
150
40
30
20
10
0
0.02
0.04
0.06
Observed frequency

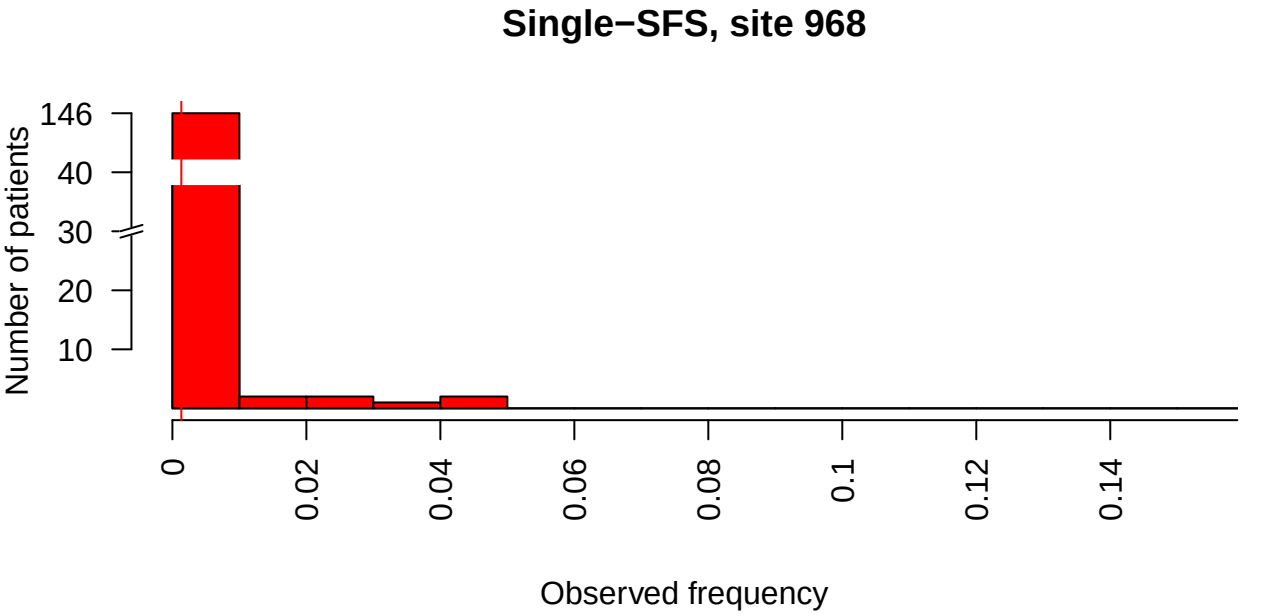

Simulated data, cost 0.0124
Number of patients
150
40
30
20
10
pvalue= 0.987
0
0.02
0.04
0.06
Observed frequency

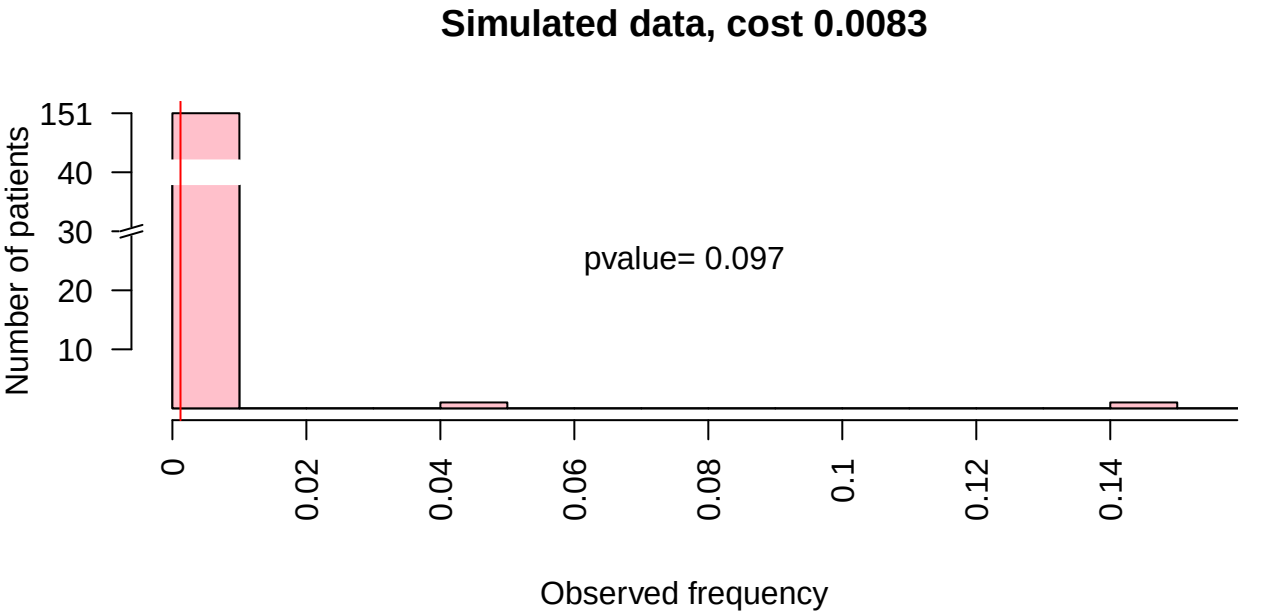

Single−SFS, site 966
Number of patients
123
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
Observed frequency

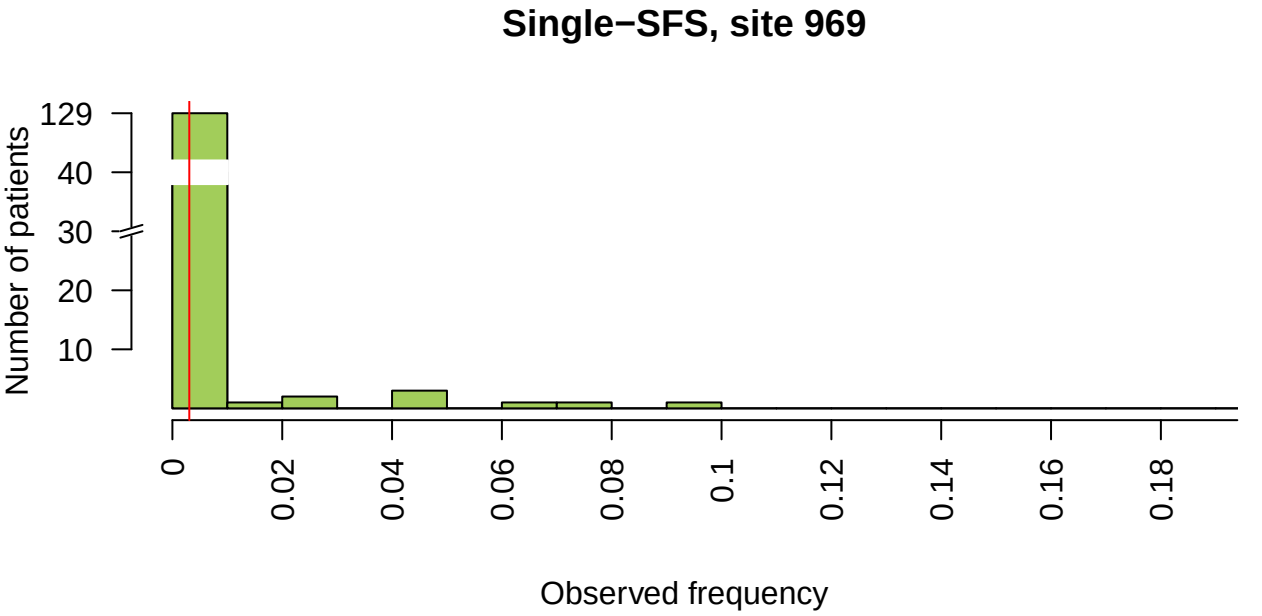

Simulated data, cost 0.0025
Number of patients
134
40
30
20
10
pvalue= 0.01
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
Observed frequency

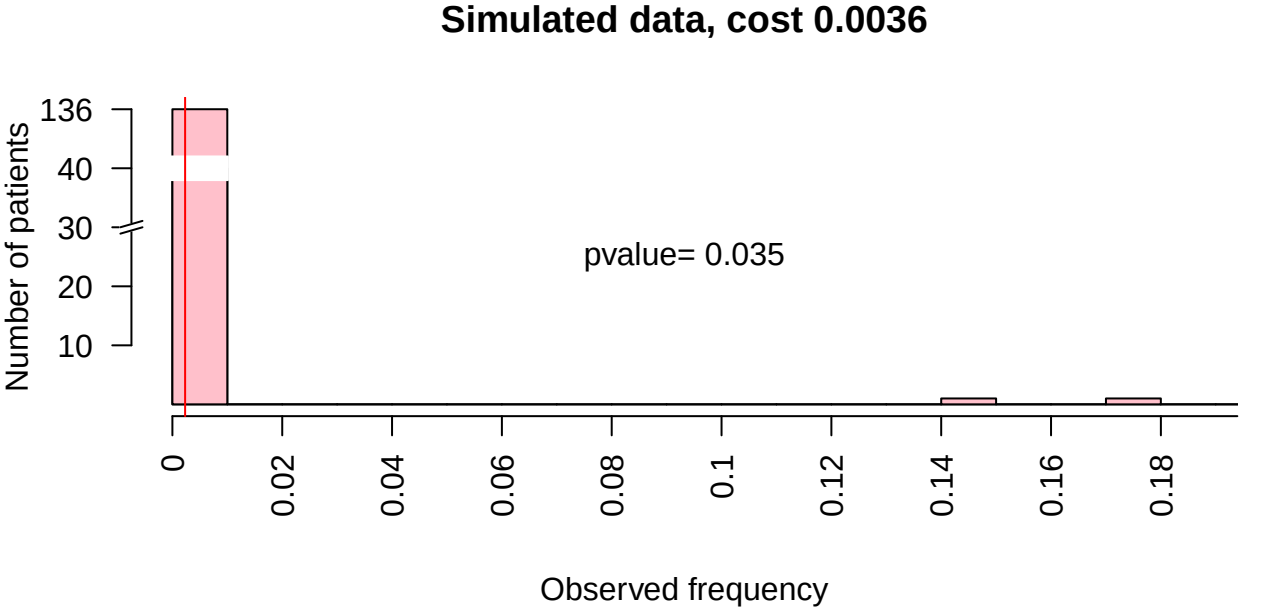

Single−SFS, site 967
Number of patients
151
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
Observed frequency

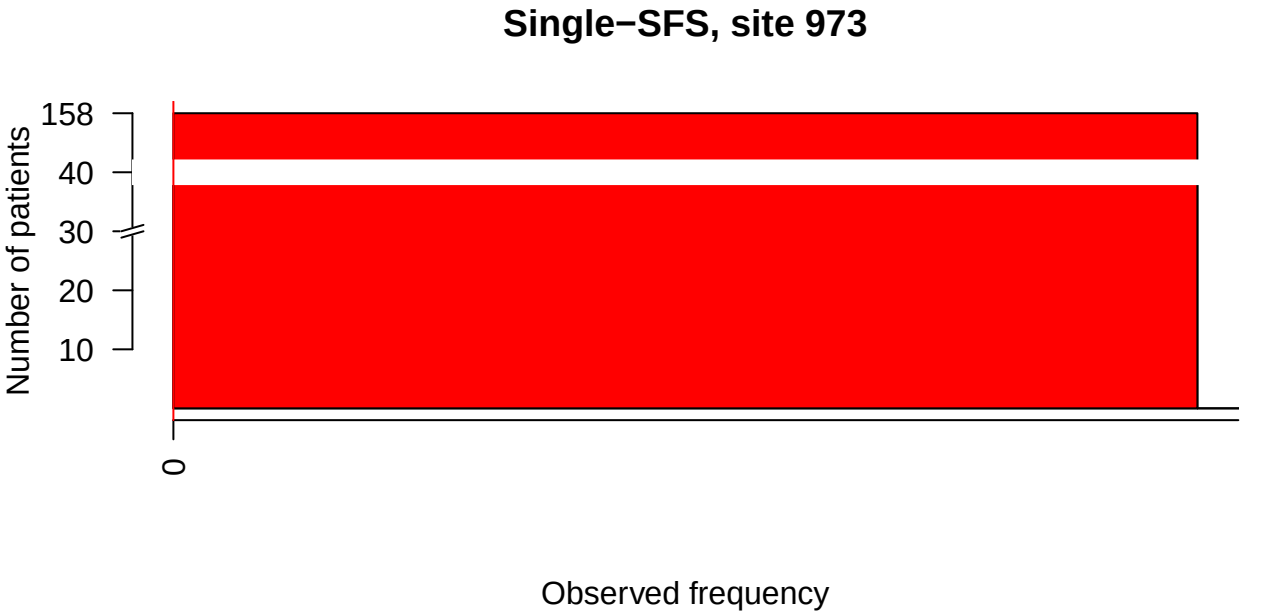

Simulated data, cost 0.0548
Number of patients
154
40
30
20
10
pvalue= 0.264
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
Observed frequency

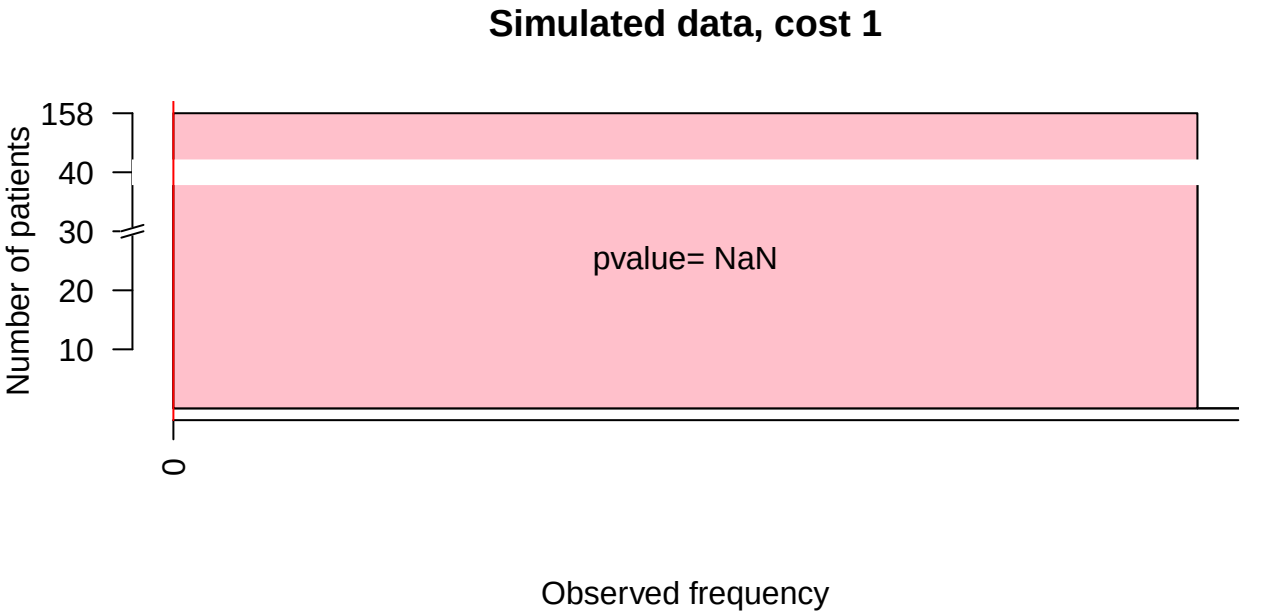

Single−SFS, site 968
Number of patients
146
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
Observed frequency

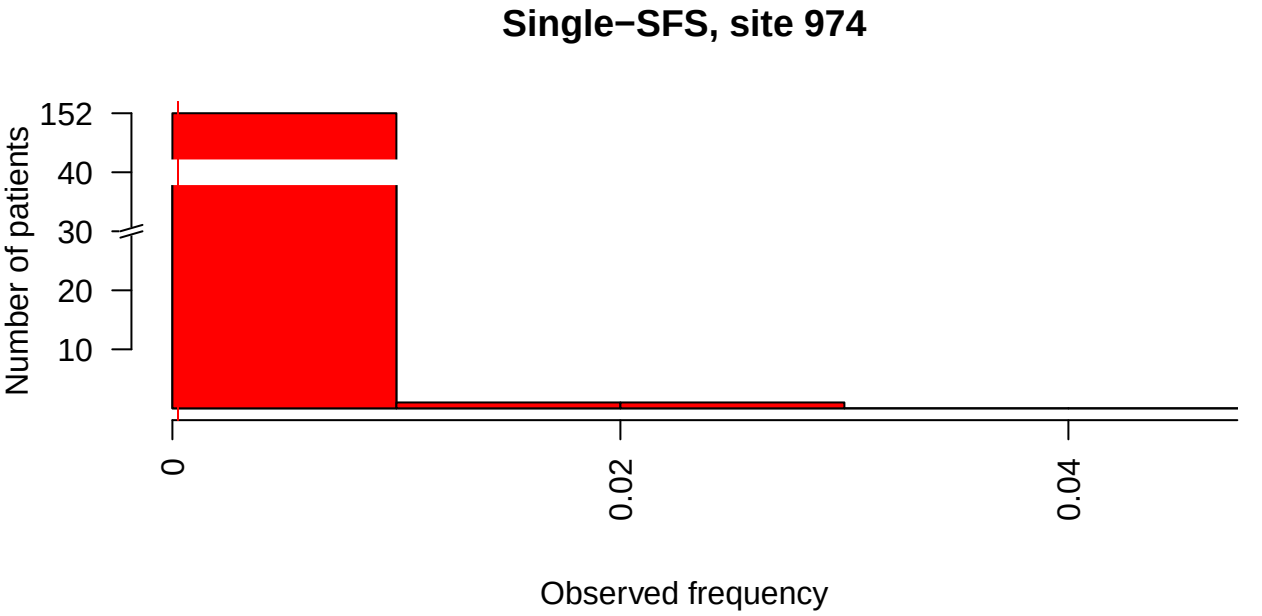

Simulated data, cost 0.0083
Number of patients
151
40
30
20
10
pvalue= 0.097
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
Observed frequency

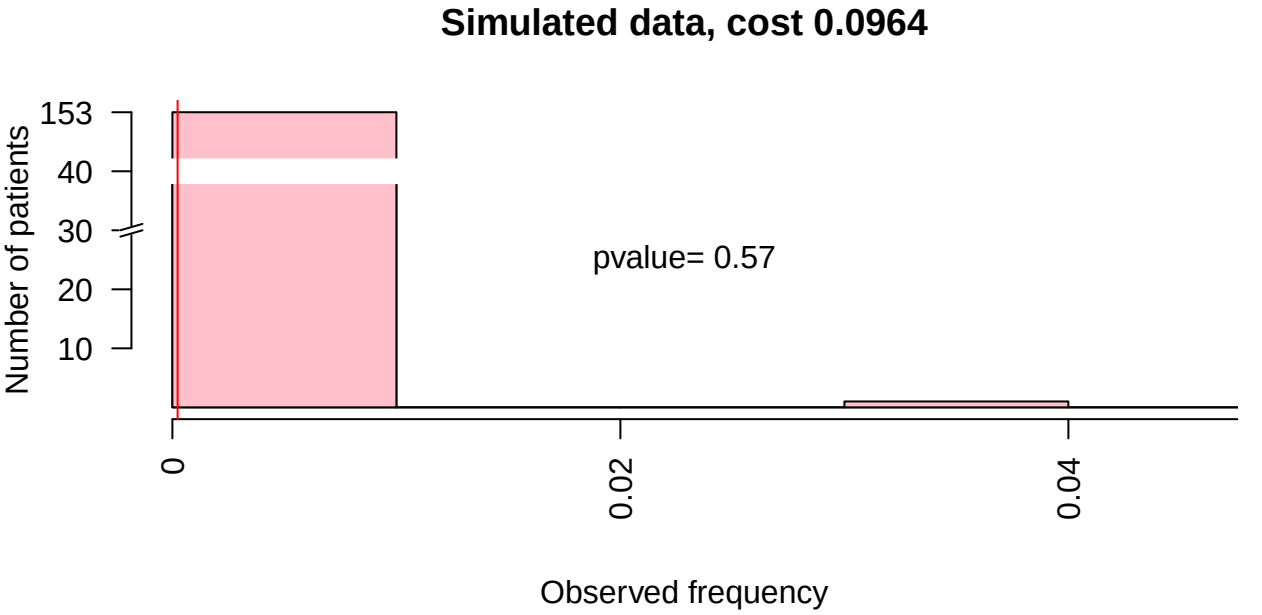

Single−SFS, site 969
Number of patients
129
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
Observed frequency

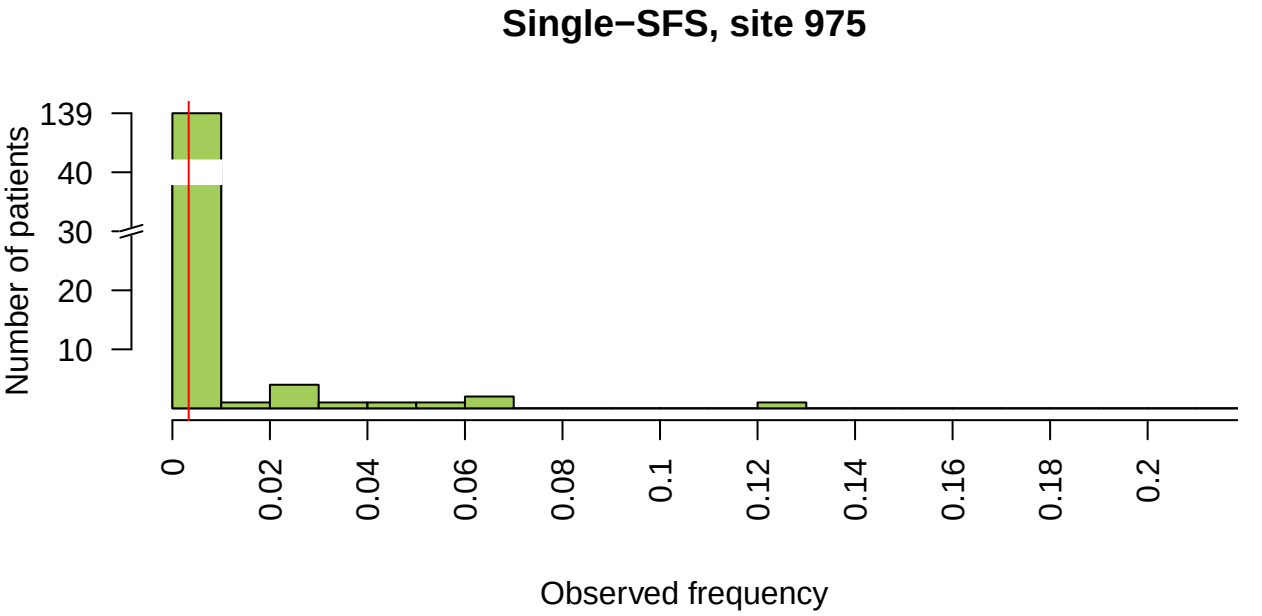

Simulated data, cost 0.0036
Number of patients
136
40
30
20
10
pvalue= 0.035
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
Observed frequency

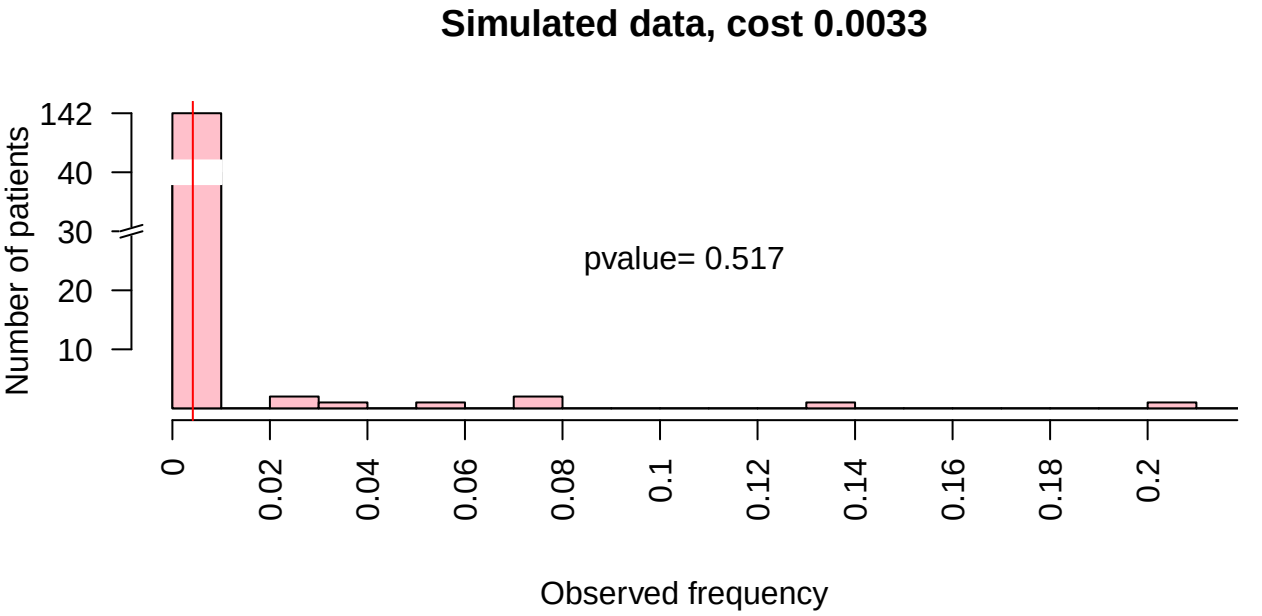

Single−SFS, site 973
Number of patients
158
40
30
20
10
0
Observed frequency

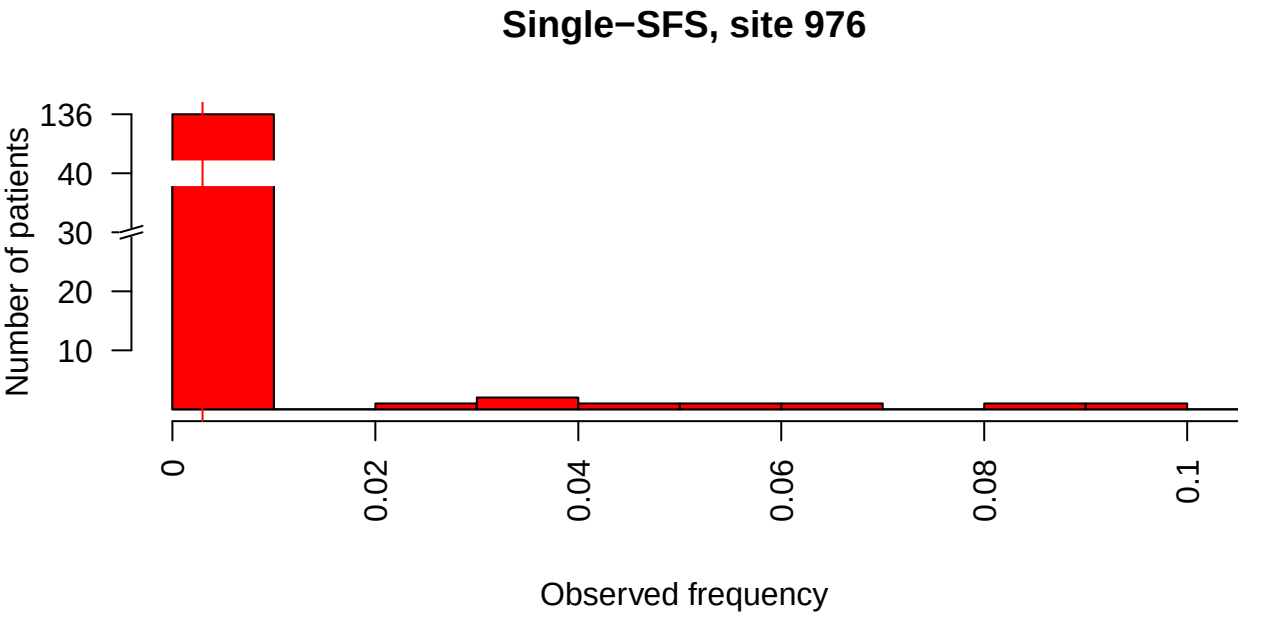

Simulated data, cost 1
Number of patients
158
40
30
20
10
0
pvalue= NaN
Observed frequency

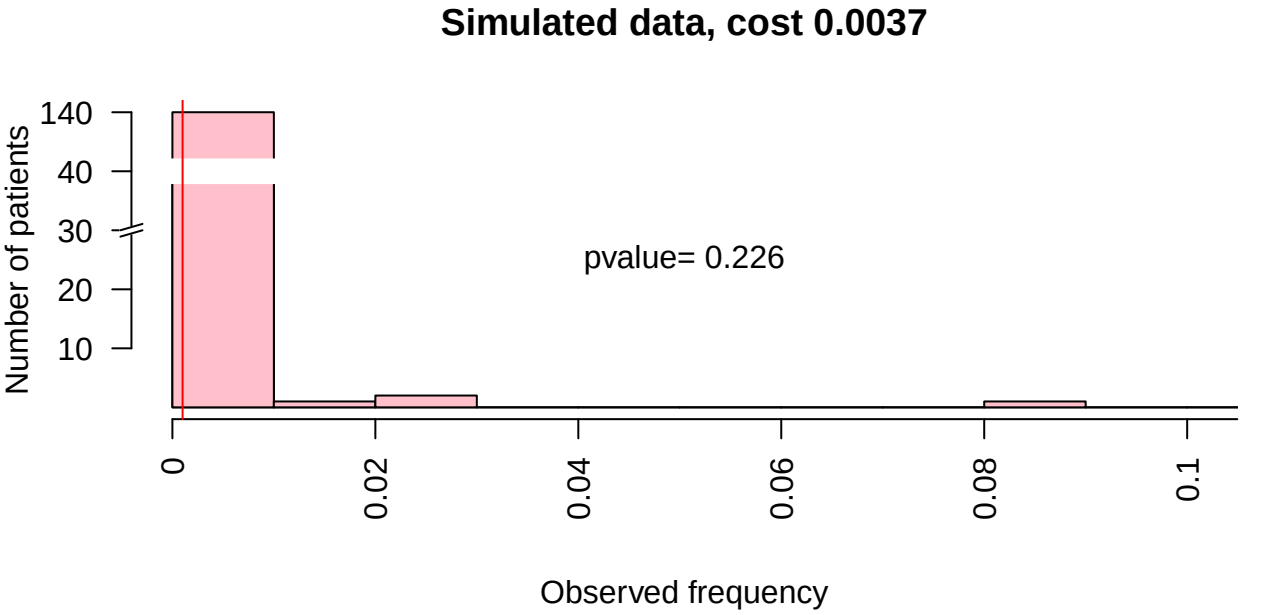

Single−SFS, site 974
Number of patients
152
40
30
20
10
0
0.02
0.04
Observed frequency

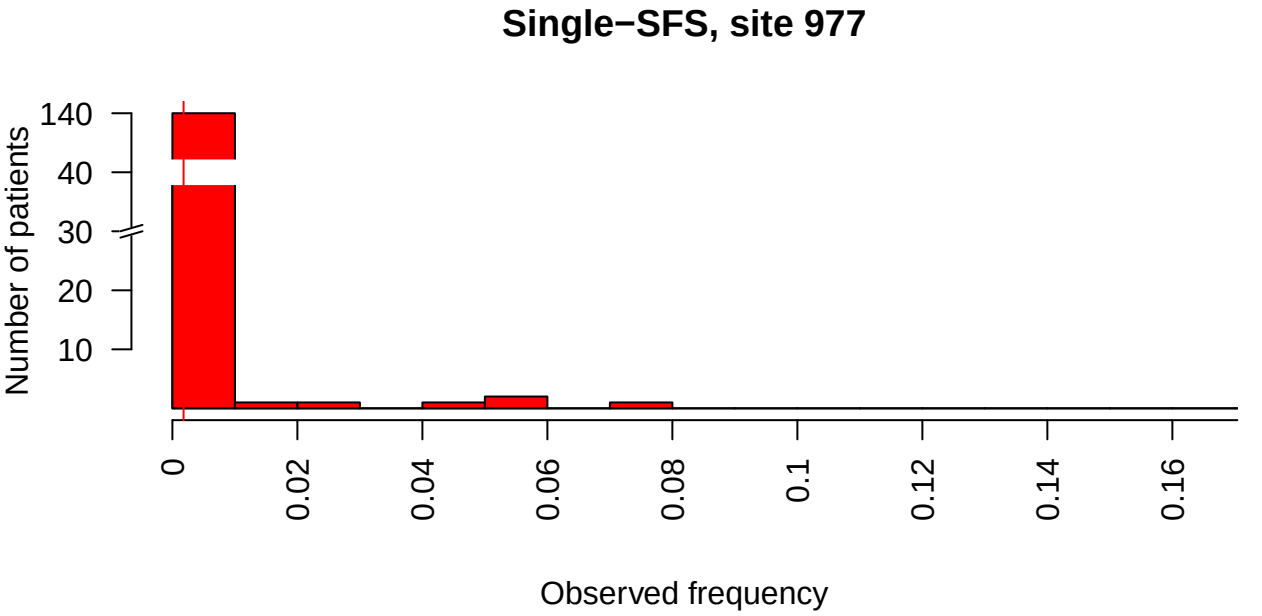

Simulated data, cost 0.0964
Number of patients
153
40
30
20
10
pvalue= 0.57
0
0.02
0.04
Observed frequency

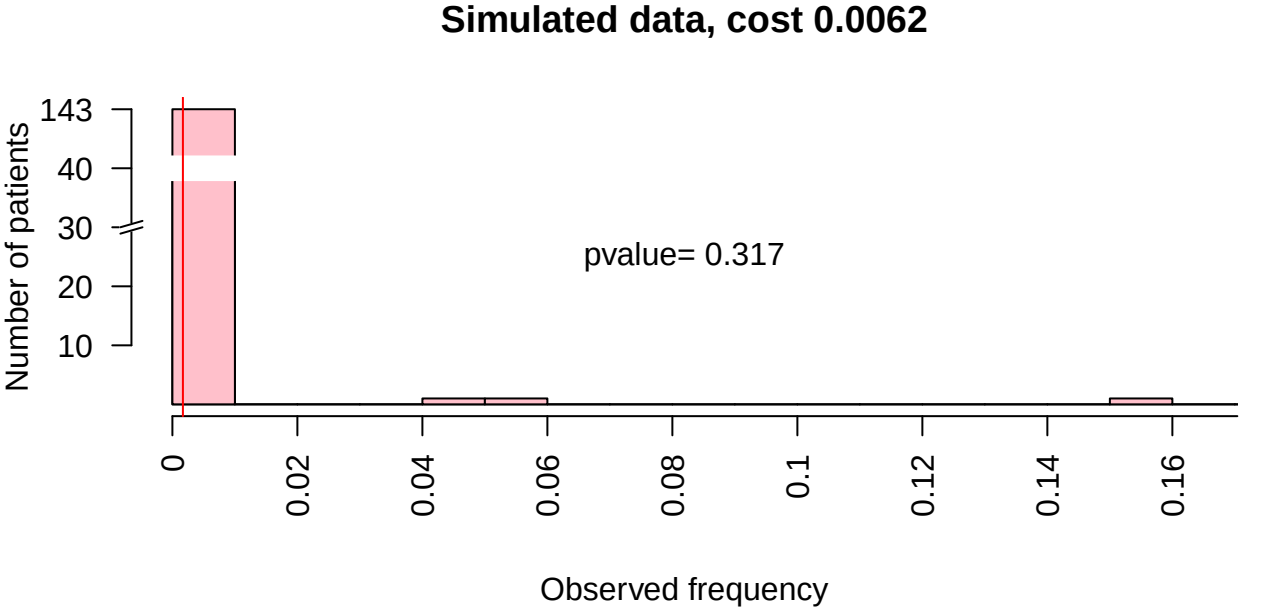

Single−SFS, site 975
Number of patients
139
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
Observed frequency

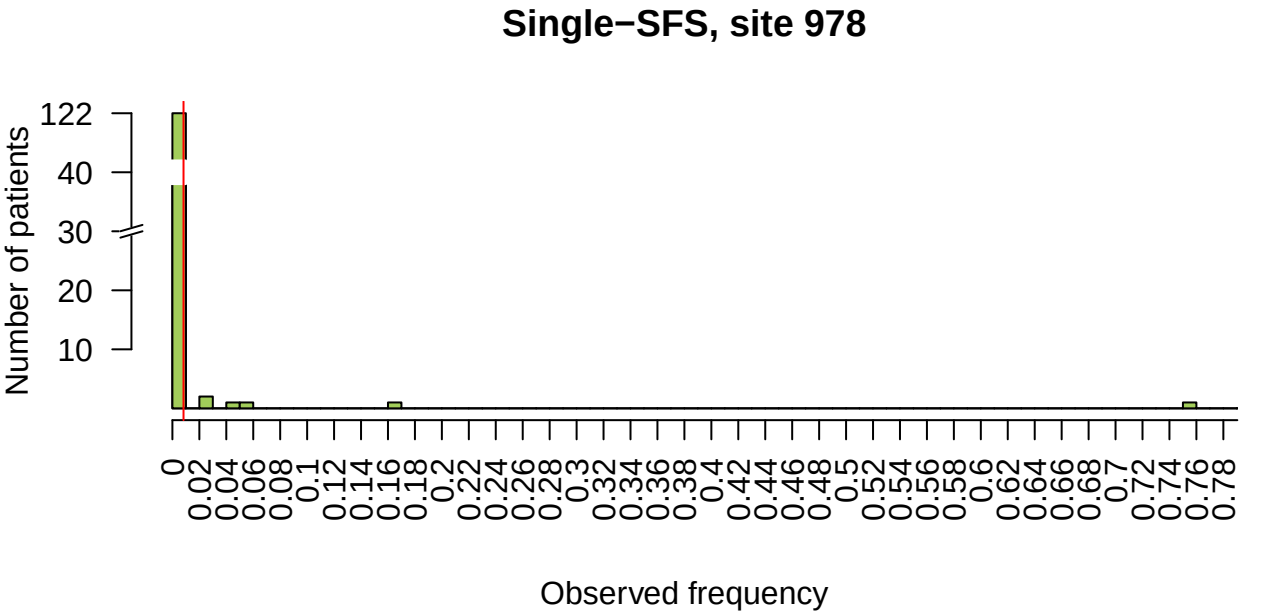

Simulated data, cost 0.0033
Number of patients
142
40
30
20
10
pvalue= 0.517
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
Observed frequency

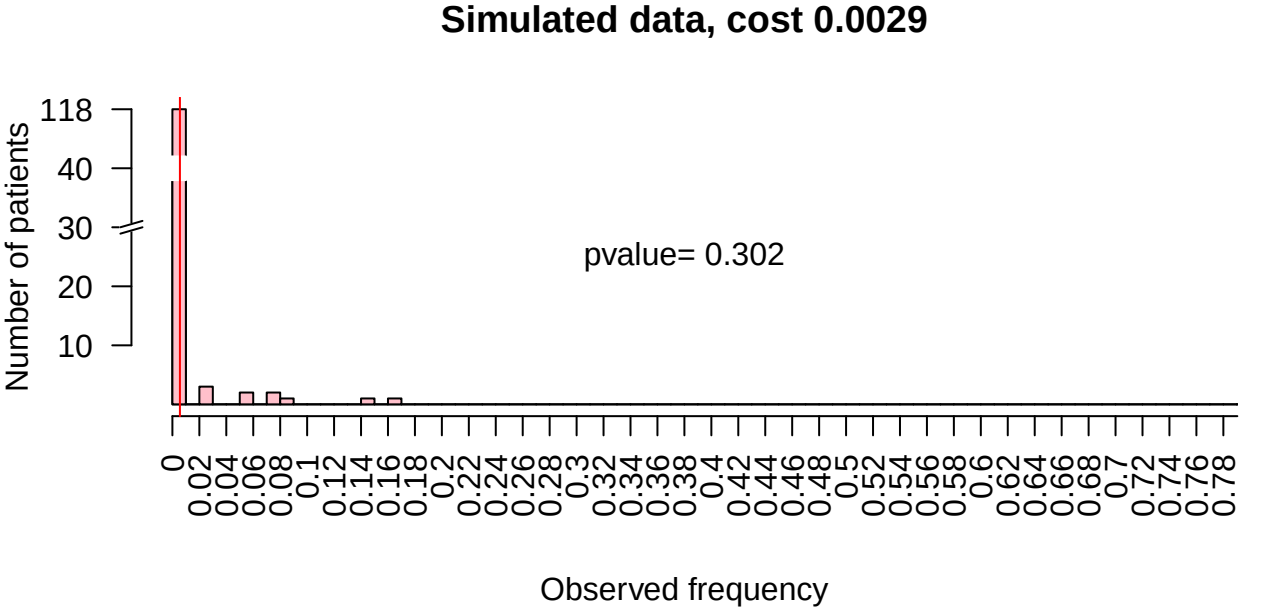

Single−SFS, site 976
Number of patients
136
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
Observed frequency

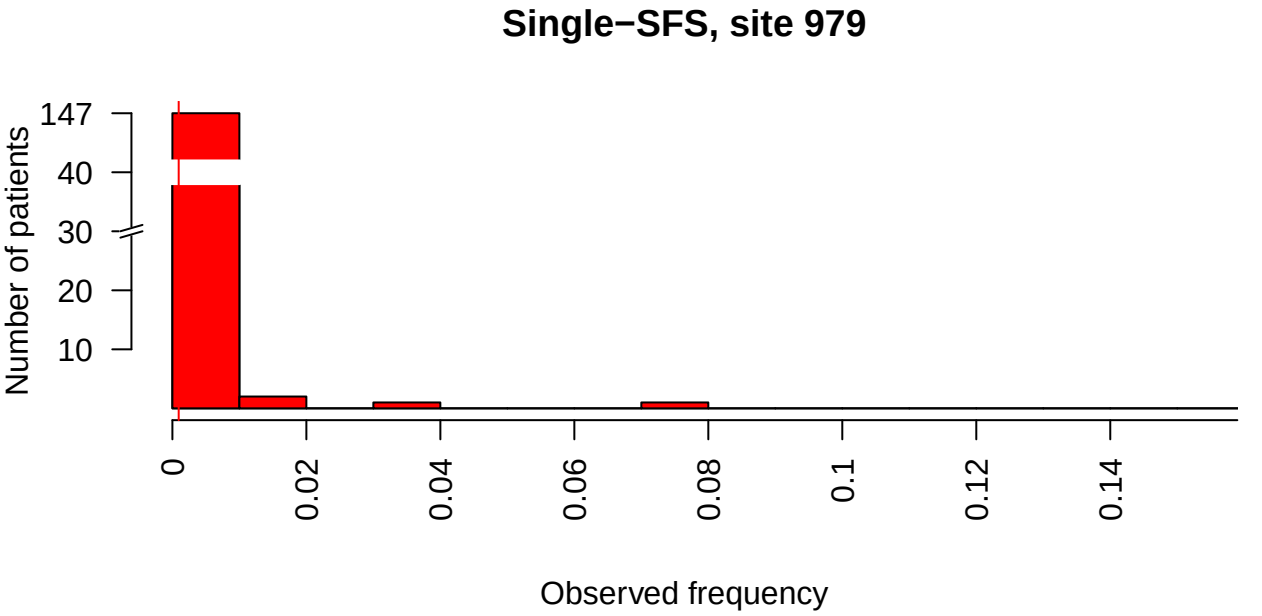

Simulated data, cost 0.0037
Number of patients
140
40
30
20
10
pvalue= 0.226
0
0.02
0.04
0.06
0.08
0.1
Observed frequency

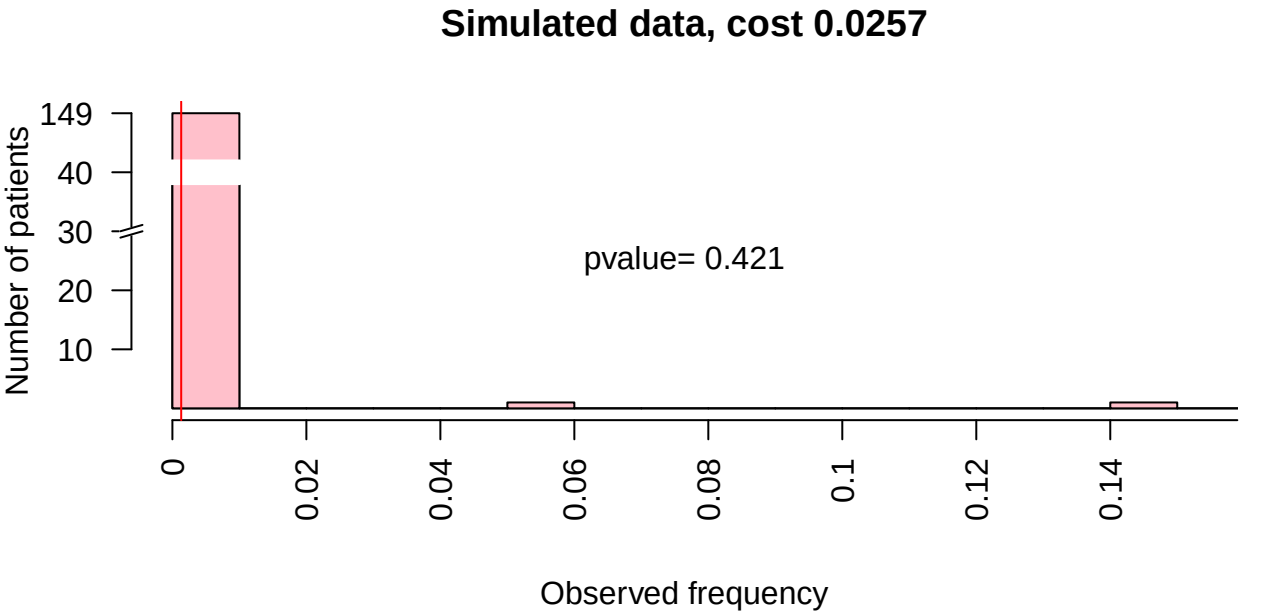

Single−SFS, site 977
Number of patients
140
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
Observed frequency

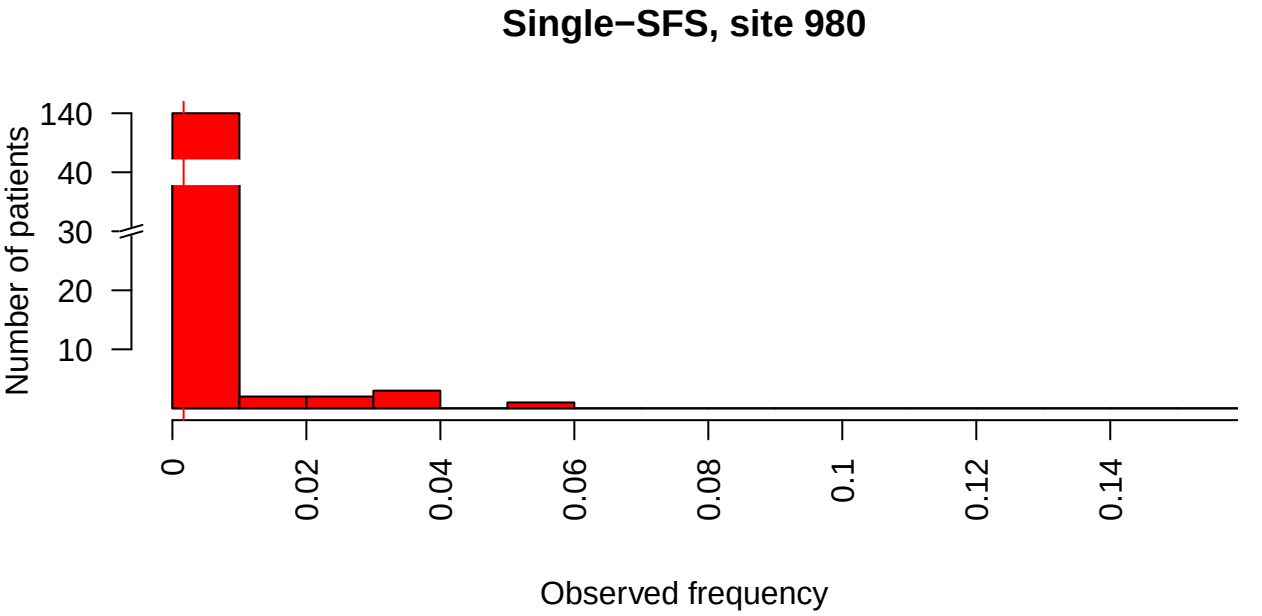

Simulated data, cost 0.0062
Number of patients
143
40
30
20
10
pvalue= 0.317
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
Observed frequency

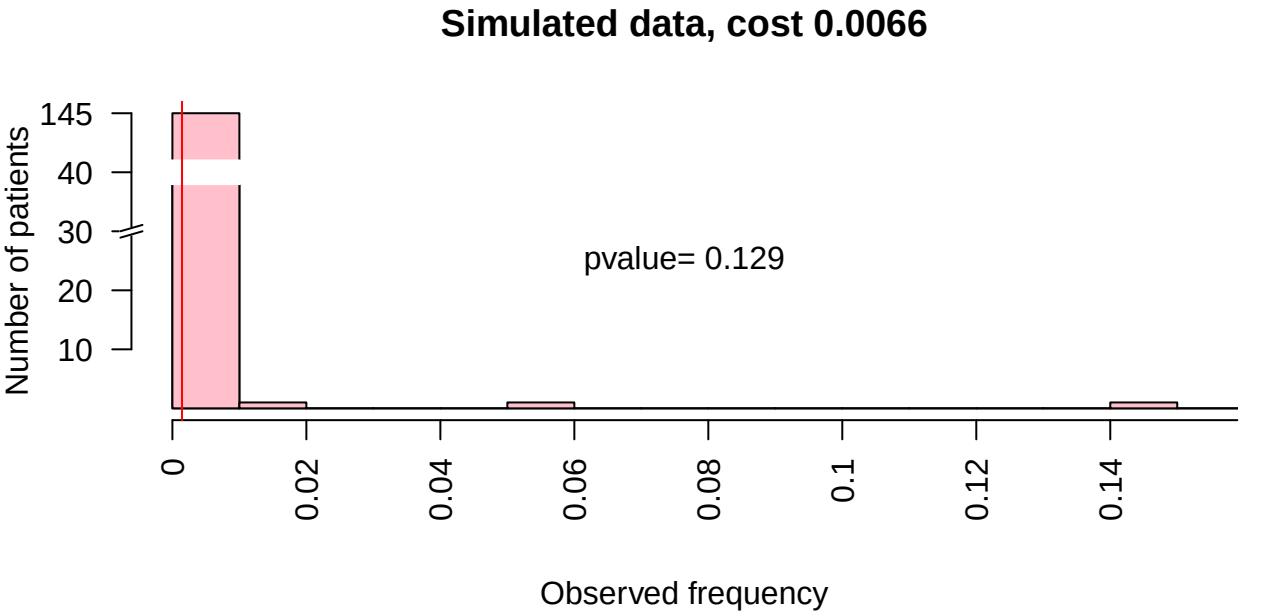

Single−SFS, site 978
Number of patients
122
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
0.24
0.26
0.28
0.3
0.32
0.34
0.36
0.38
0.4
0.42
0.44
0.46
0.48
0.5
0.52
0.54
0.56
0.58
0.6
0.62
0.64
0.66
0.68
0.7
0.72
0.74
0.76
0.78
Observed frequency

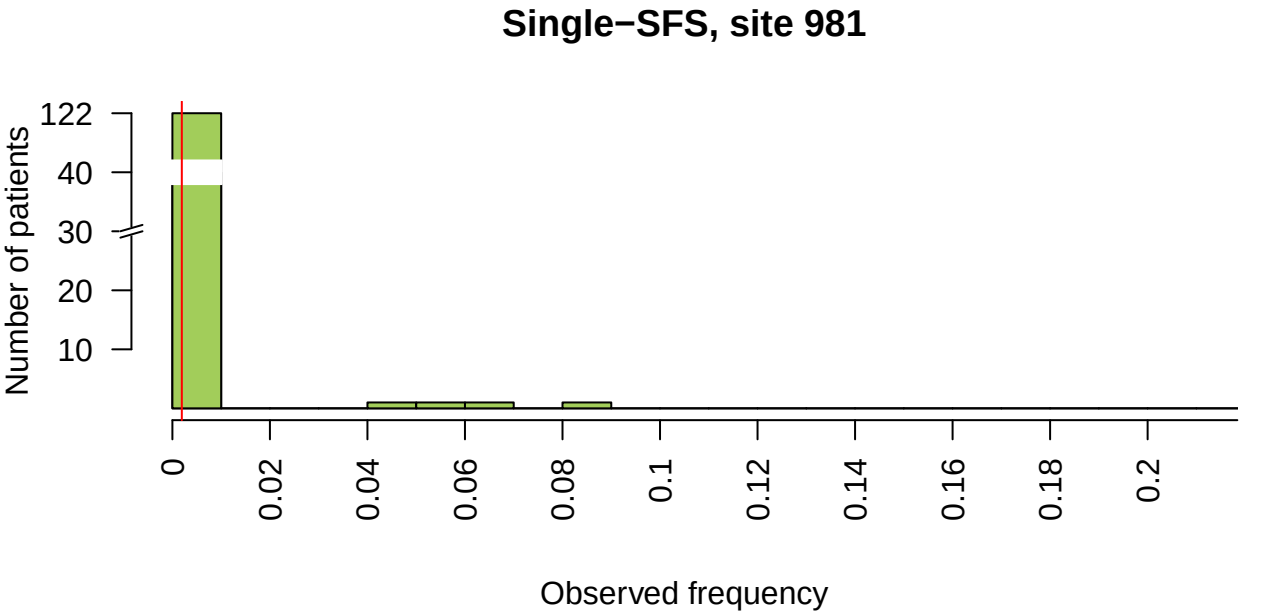

Simulated data, cost 0.0029
Number of patients
118
40
30
20
10
pvalue= 0.302
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
0.24
0.26
0.28
0.3
0.32
0.34
0.36
0.38
0.4
0.42
0.44
0.46
0.48
0.5
0.52
0.54
0.56
0.58
0.6
0.62
0.64
0.66
0.68
0.7
0.72
0.74
0.76
0.78
Observed frequency

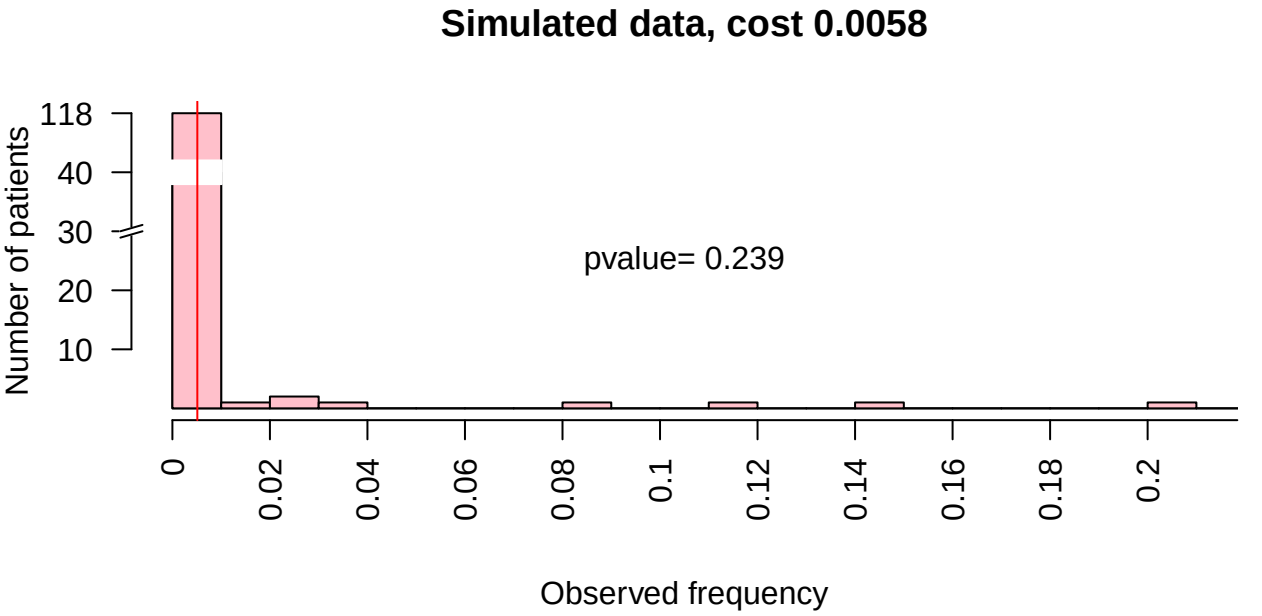

Single−SFS, site 979
Number of patients
147
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
Observed frequency

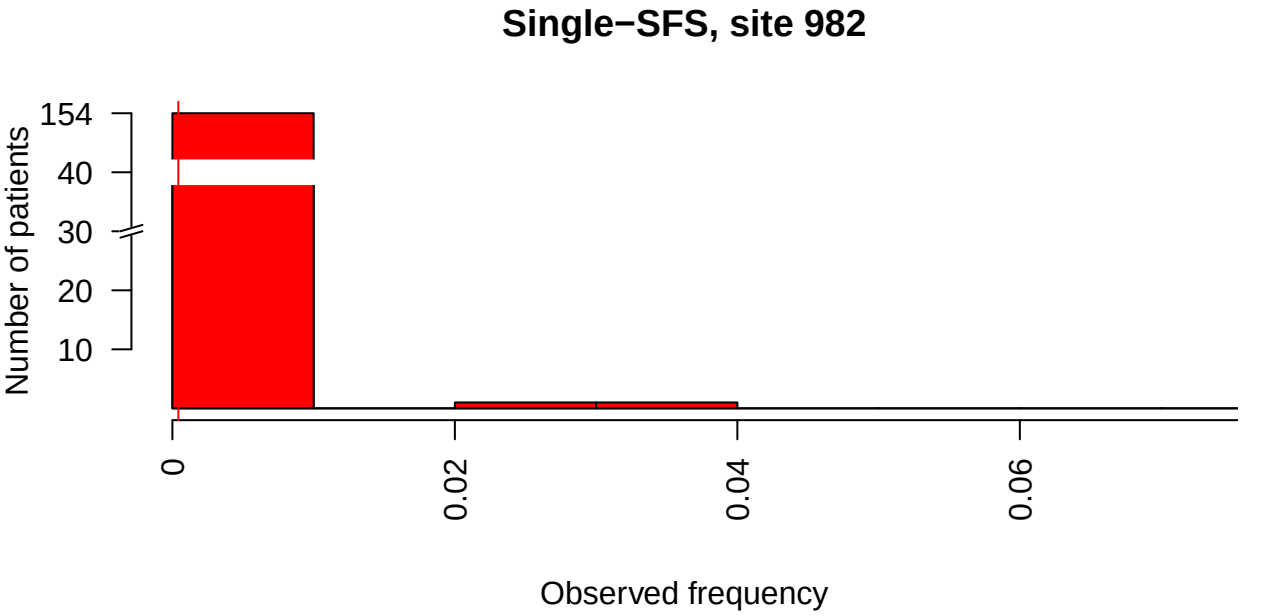

Simulated data, cost 0.0257
Number of patients
149
40
30
20
10
pvalue= 0.421
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
Observed frequency

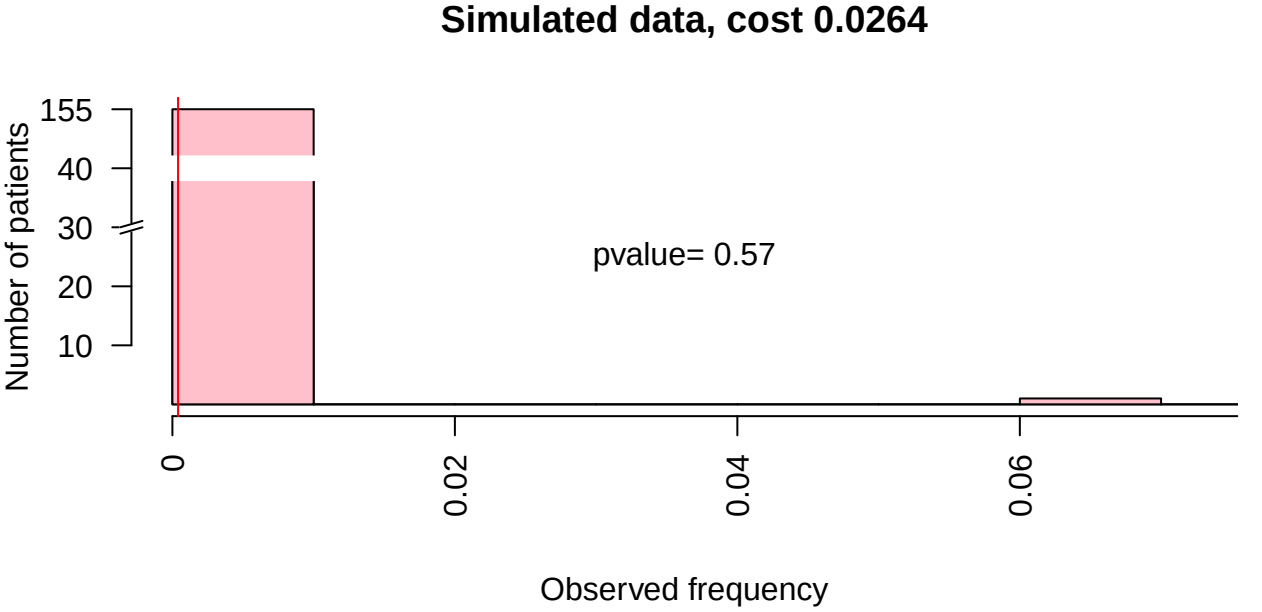

Single−SFS, site 980
Number of patients
140
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
Observed frequency

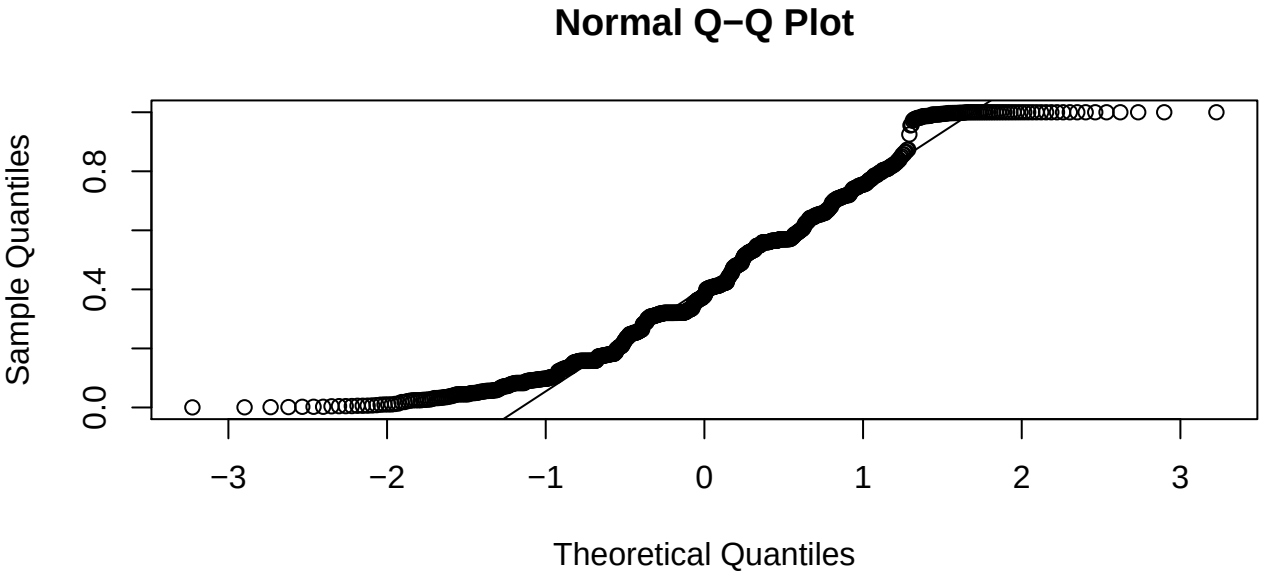

Simulated data, cost 0.0066
Number of patients
145
40
30
20
10
pvalue= 0.129
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
Observed frequency


Single−SFS, site 981
Number of patients
122
40
30
20
10
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
Observed frequency


Simulated data, cost 0.0058
Number of patients
118
40
30
20
10
pvalue= 0.239
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
Observed frequency


Single−SFS, site 982
Number of patients
154
40
30
20
10
0
0.02
0.04
0.06
Observed frequency


Simulated data, cost 0.0264
Number of patients
155
40
30
20
10
pvalue= 0.57
0
0.02
0.04
0.06
Observed frequency


Normal Q−Q Plot
Sample Quantiles
0.0
0.4
0.8
−3
−2
−1
0
1
2
3
Theoretical Quantiles