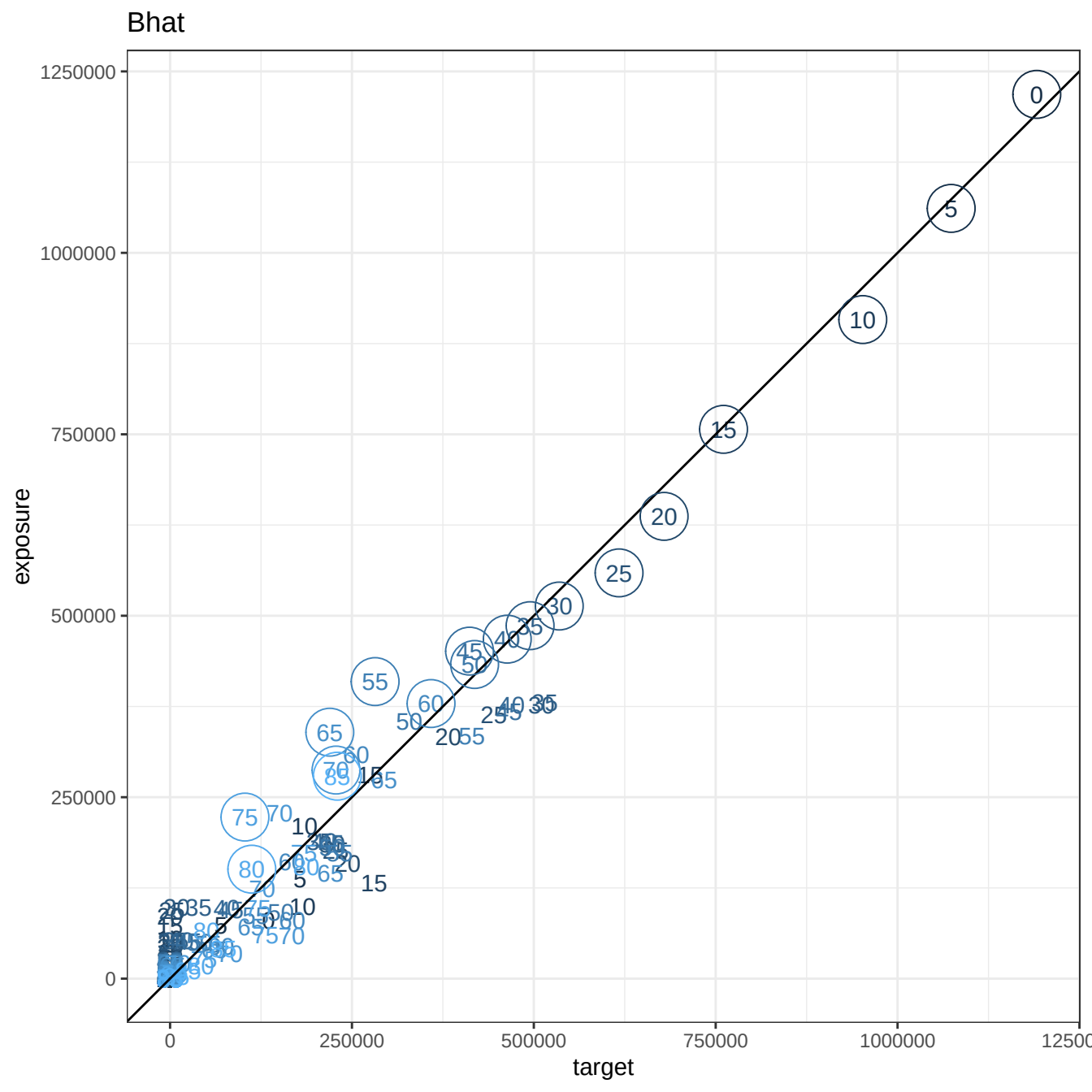
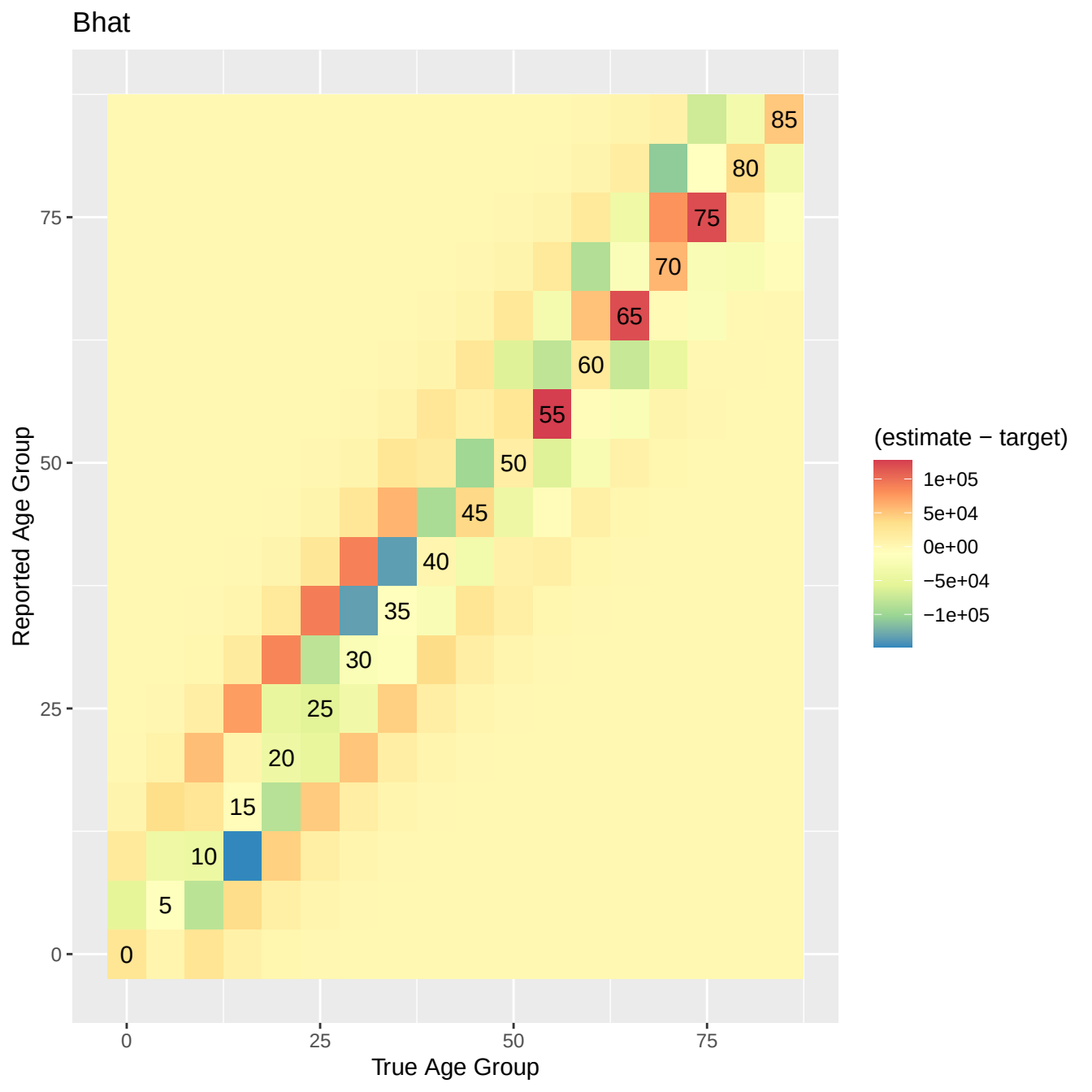
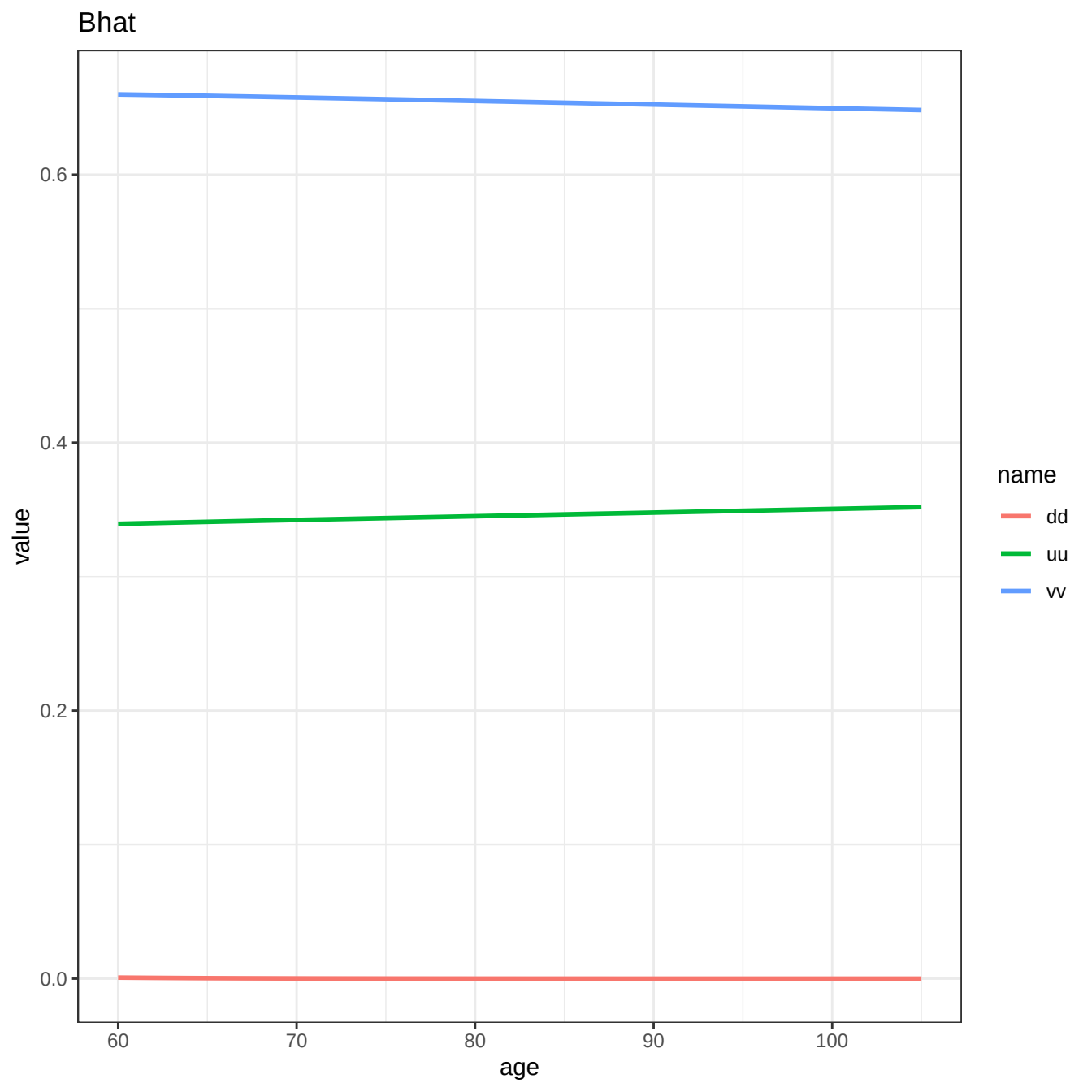
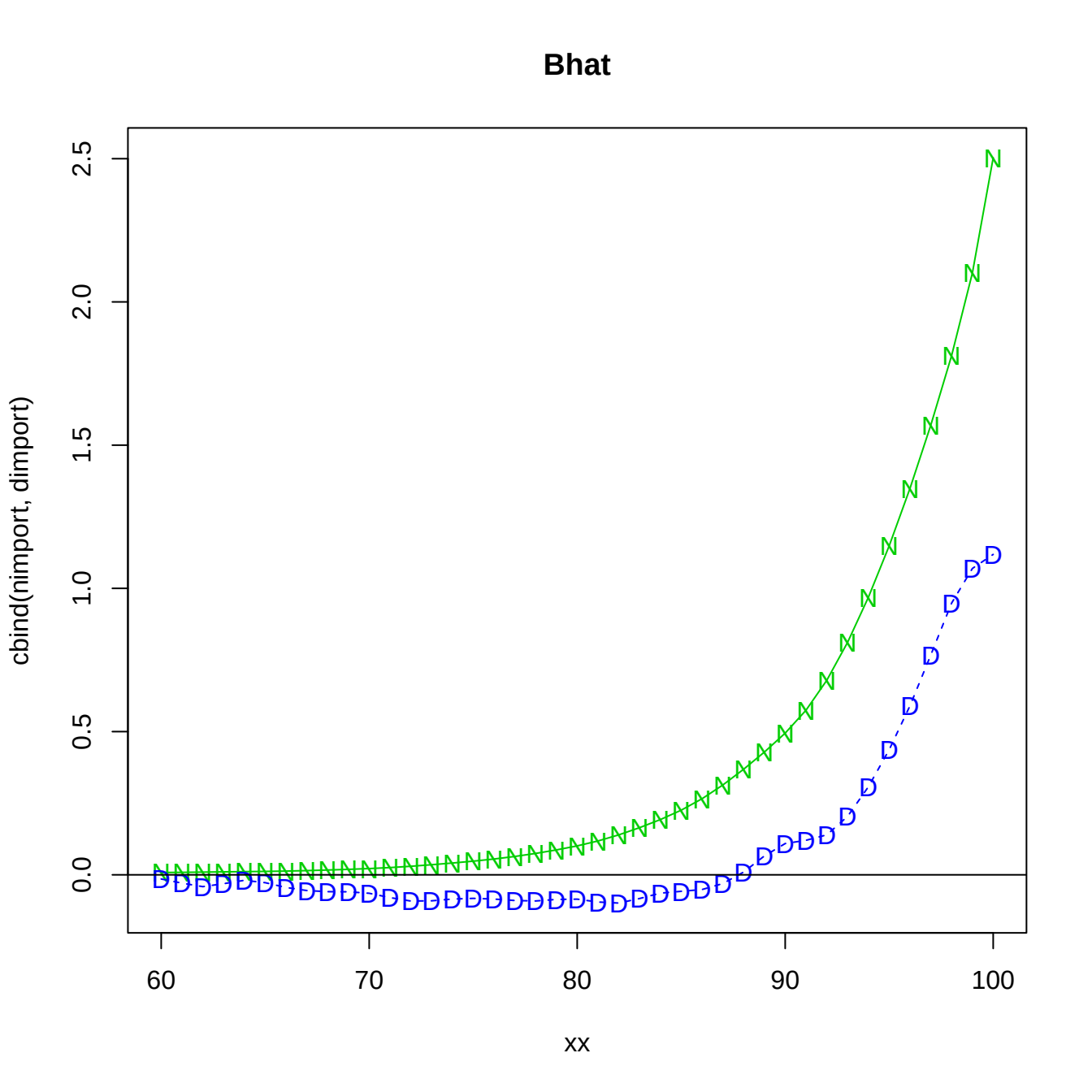
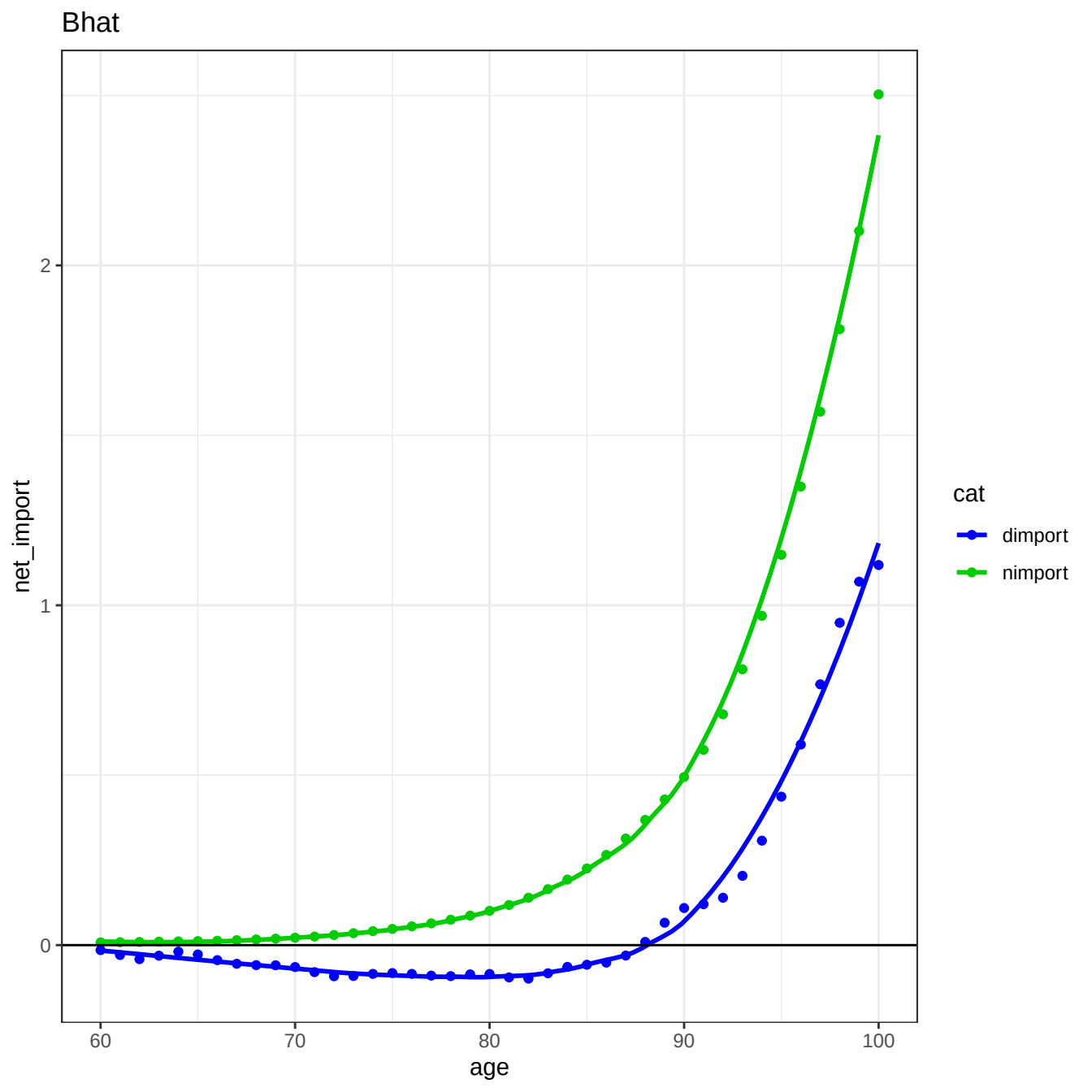
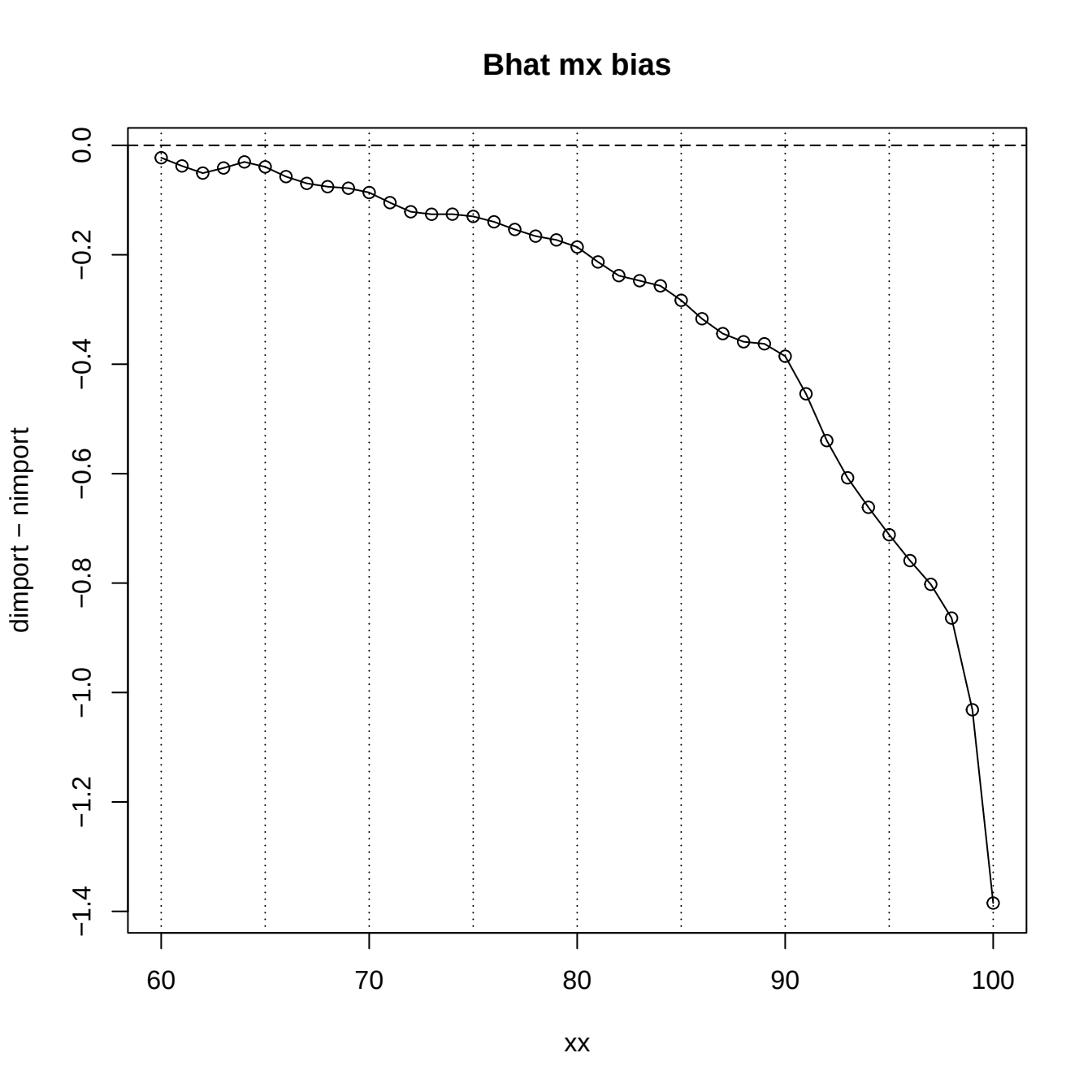

Bhat
exposure
target
1250000
1000000
750000
500000
250000
0
0
250000
500000
750000
1000000
1250000

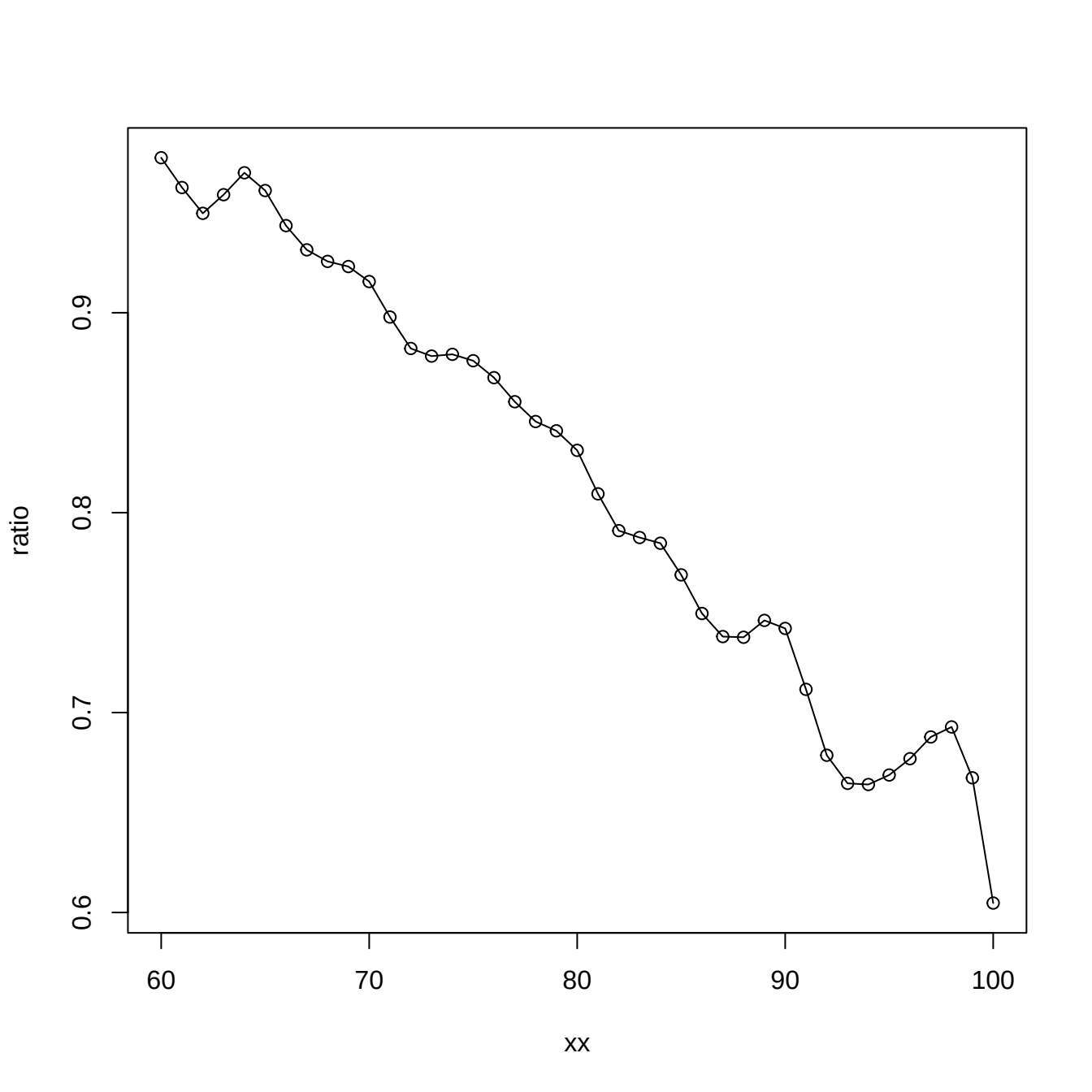

Bhat
Reported Age Group
True Age Group
0
25
50
75
0
5
10
15
20
25
30
35
40
45
50
55
60
65
70
75
80
85
(estimate − target)
1e+05
5e+04
0e+00
−5e+04
−1e+05

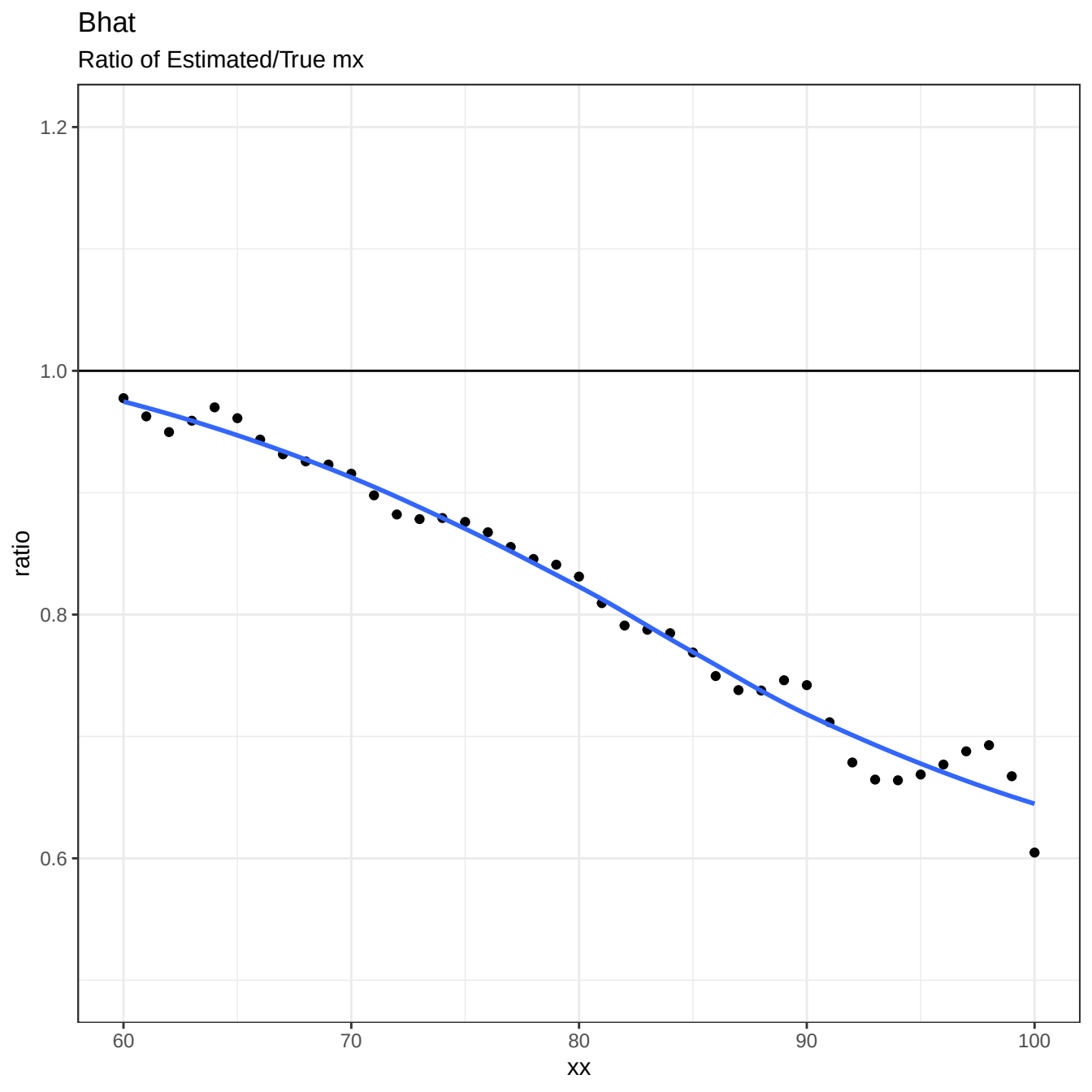

Bhat
0.6
0.4
0.2
0.0
value
60
70
80
90
100
age
name
dd
uu
vv

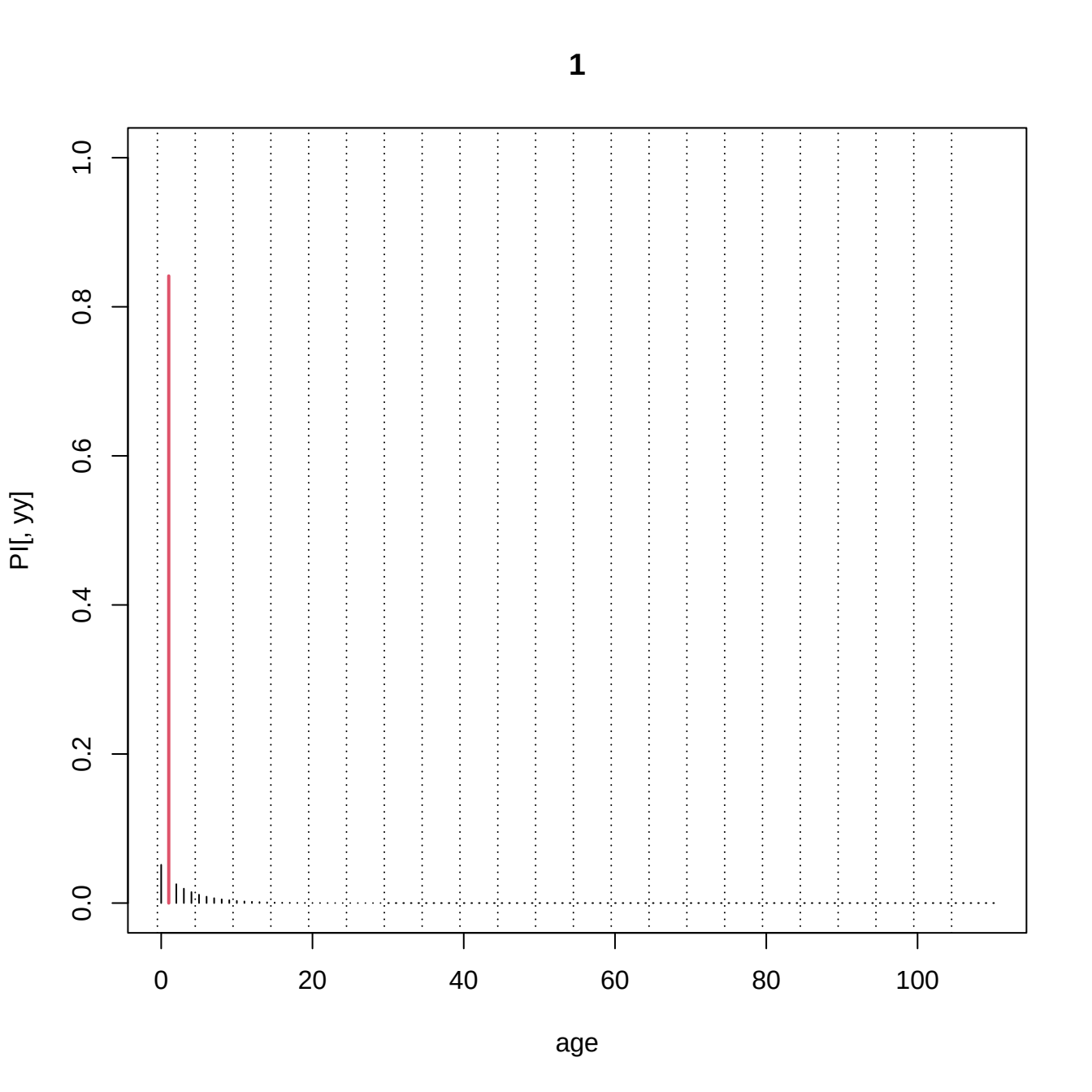

Bhat
cbind(nimport, dimport)
0.0
0.5
1.0
1.5
2.0
2.5
60
70
80
90
100
xx

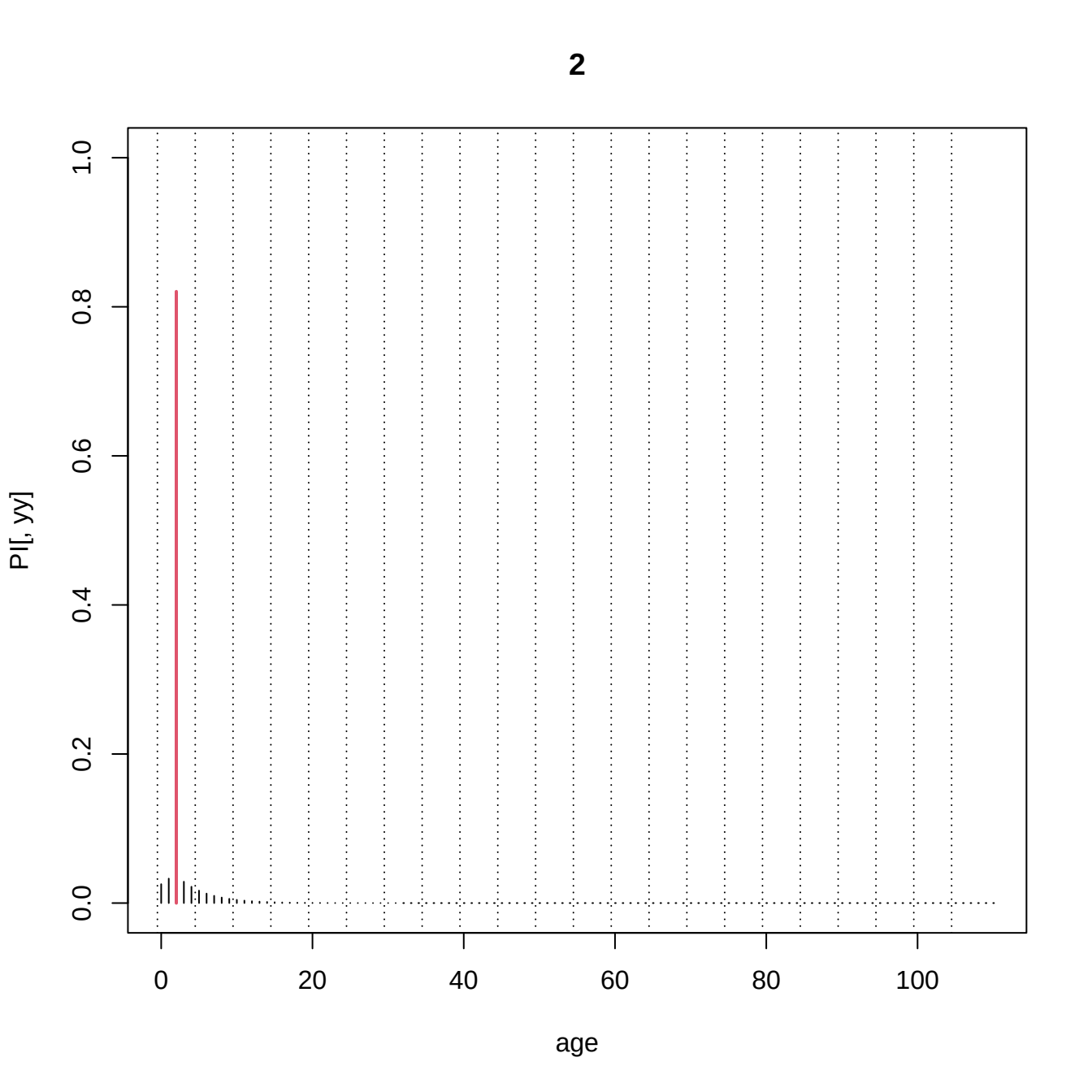

Bhat
net_import
2
1
0
60
70
80
90
100
age
cat
dimport
nimport

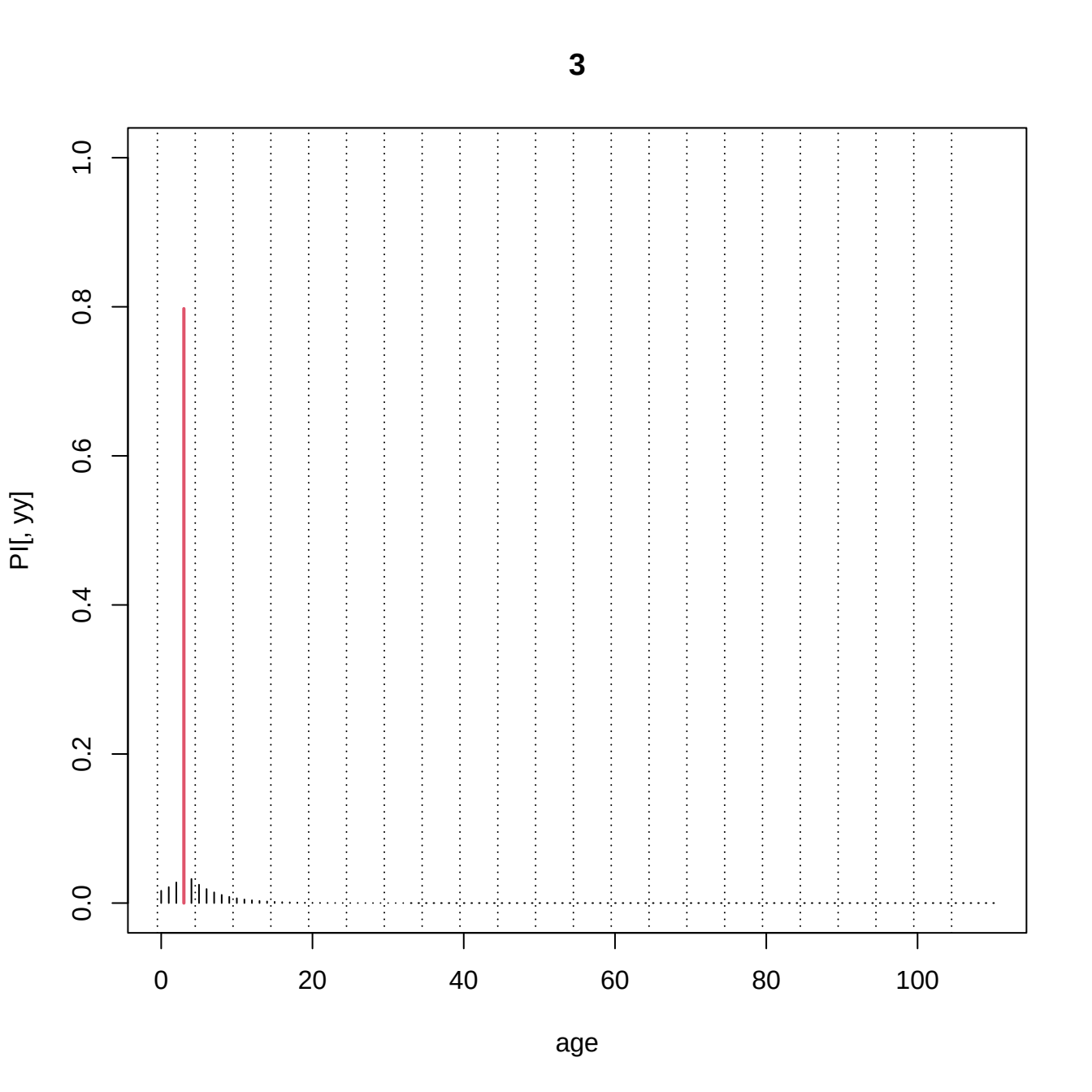

Bhat mx bias
dimport – nimport
0.0
−0.2
−0.4
−0.6
−0.8
−1.0
−1.2
−1.4
60
70
80
90
100
xx

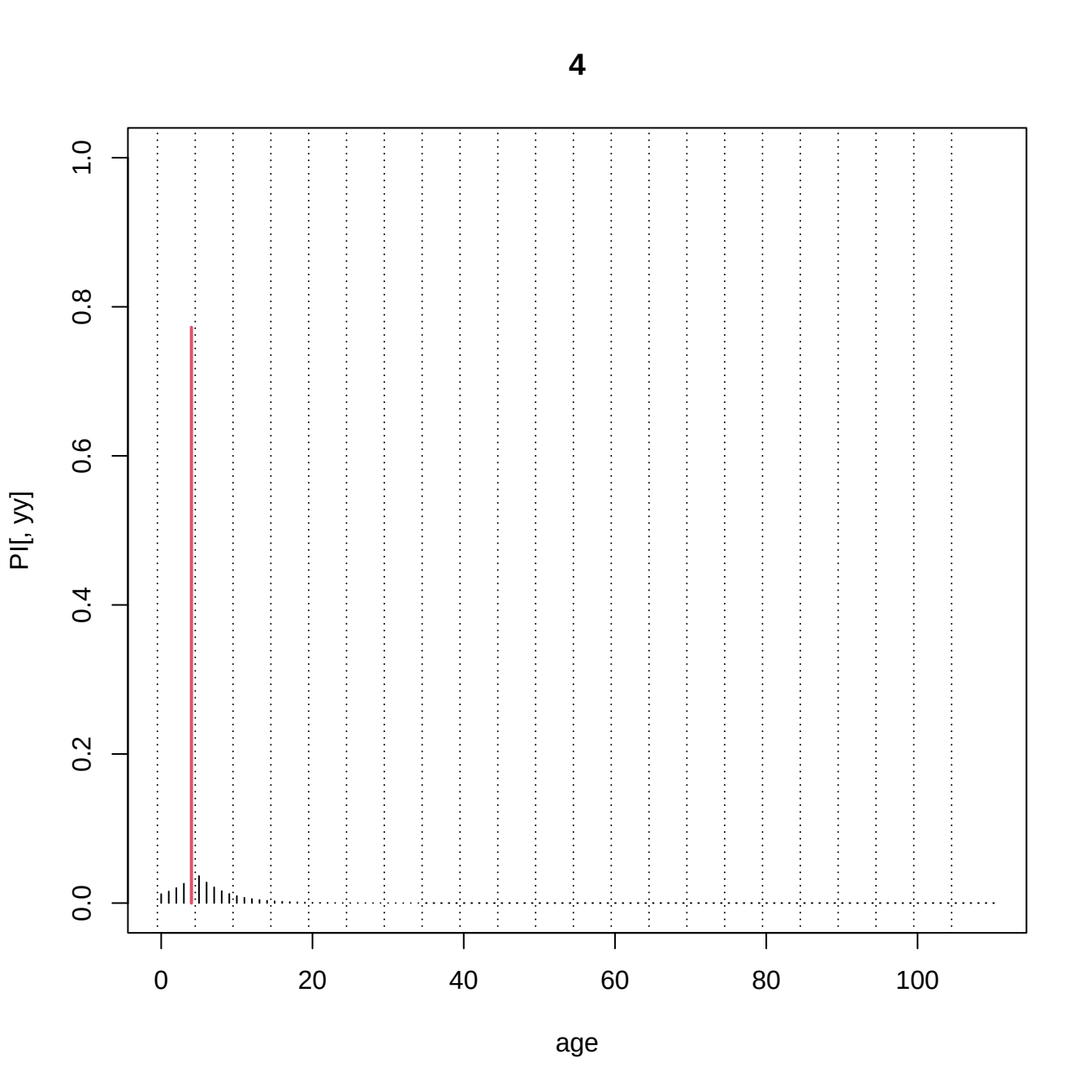

ratio
0.6
0.7
0.8
0.9
60
70
80
90
100
xx

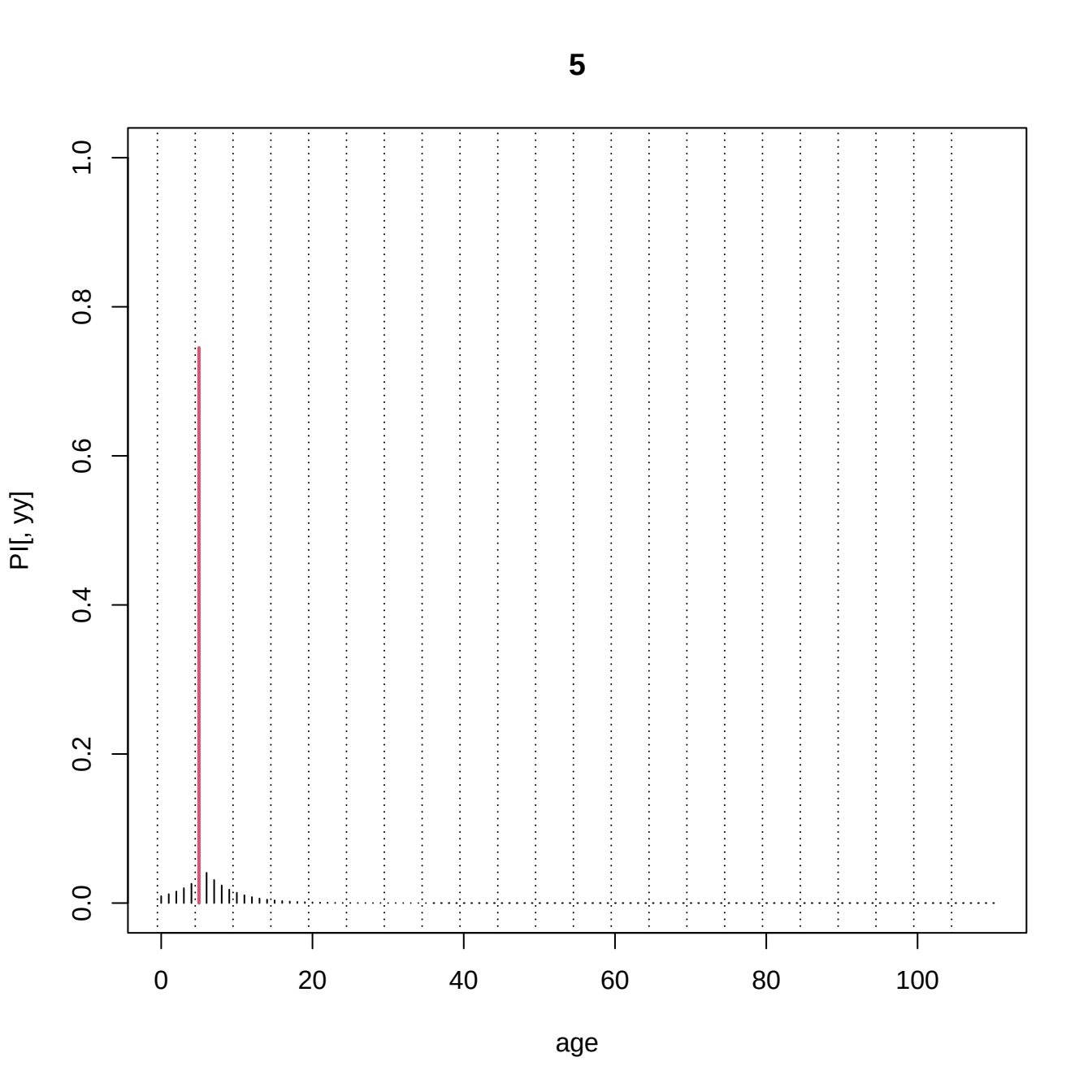

Bhat
Ratio of Estimated/True mx
1.2
1.0
0.8
0.6
ratio
60
70
80
90
100
xx

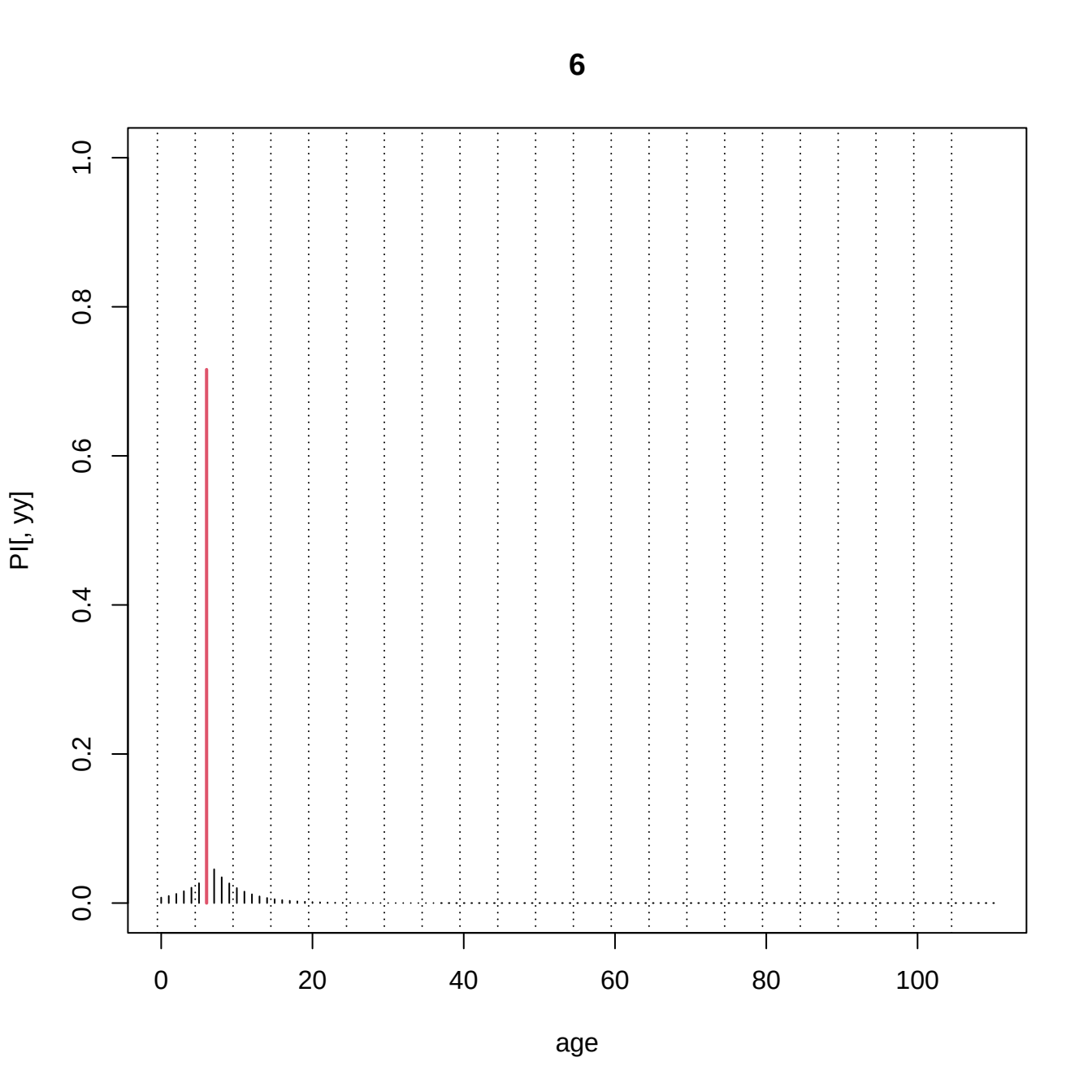

1
PI[, yy]
0.0
0.2
0.4
0.6
0.8
1.0
0
20
40
60
80
100
age

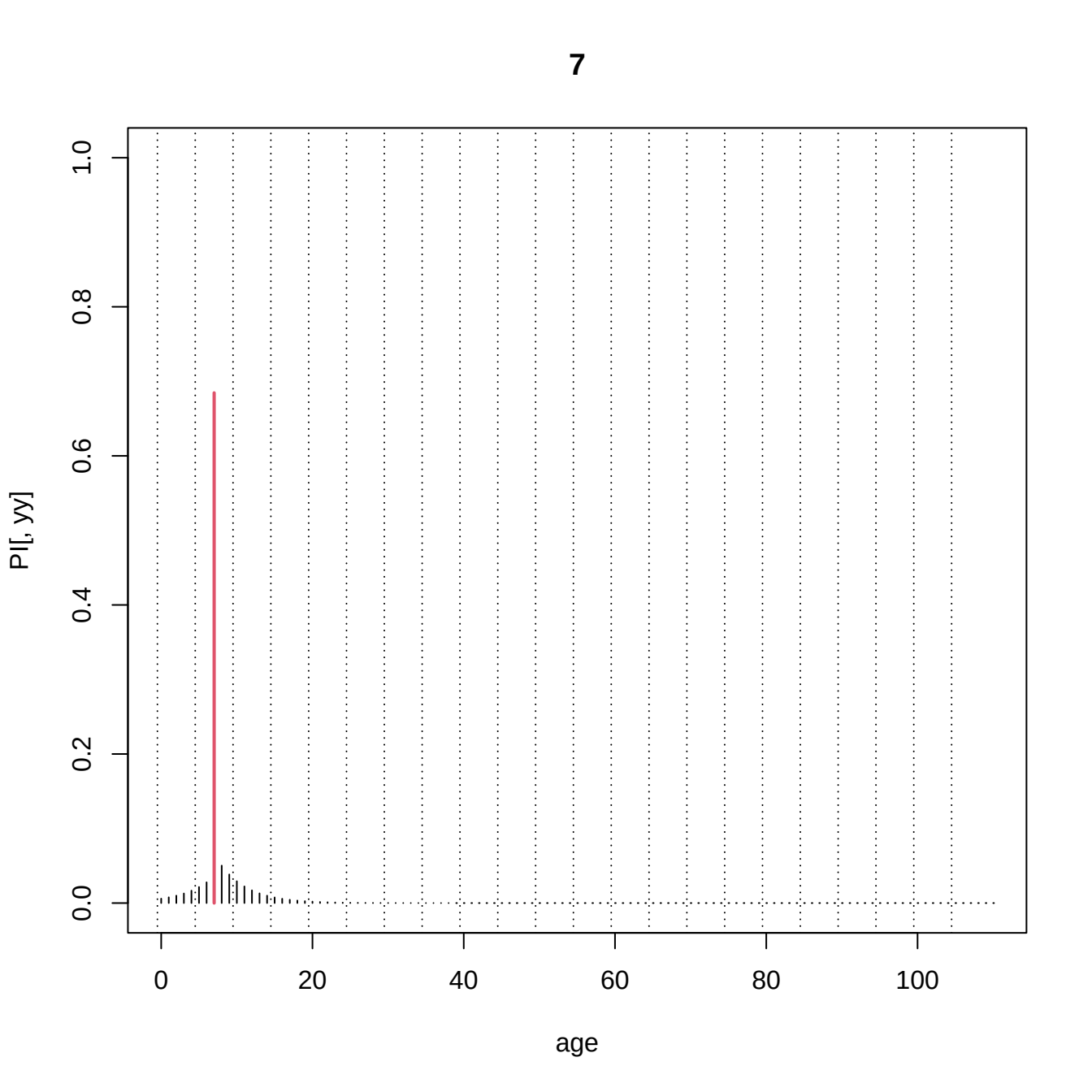

2
PI[, yy]
0.0
0.2
0.4
0.6
0.8
1.0
0
20
40
60
80
100
age

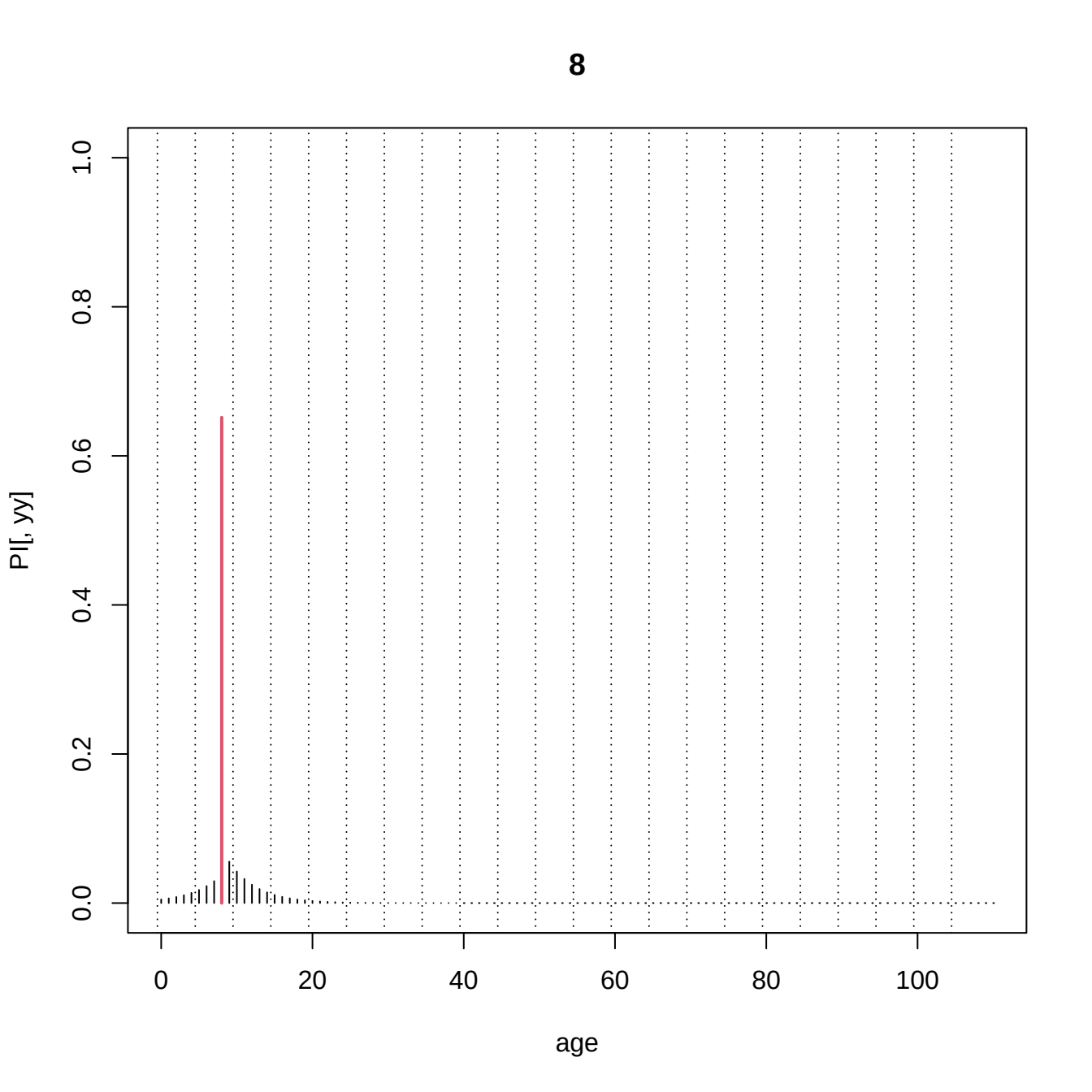

3
PI[, yy]
0.0
0.2
0.4
0.6
0.8
1.0
0
20
40
60
80
100
age

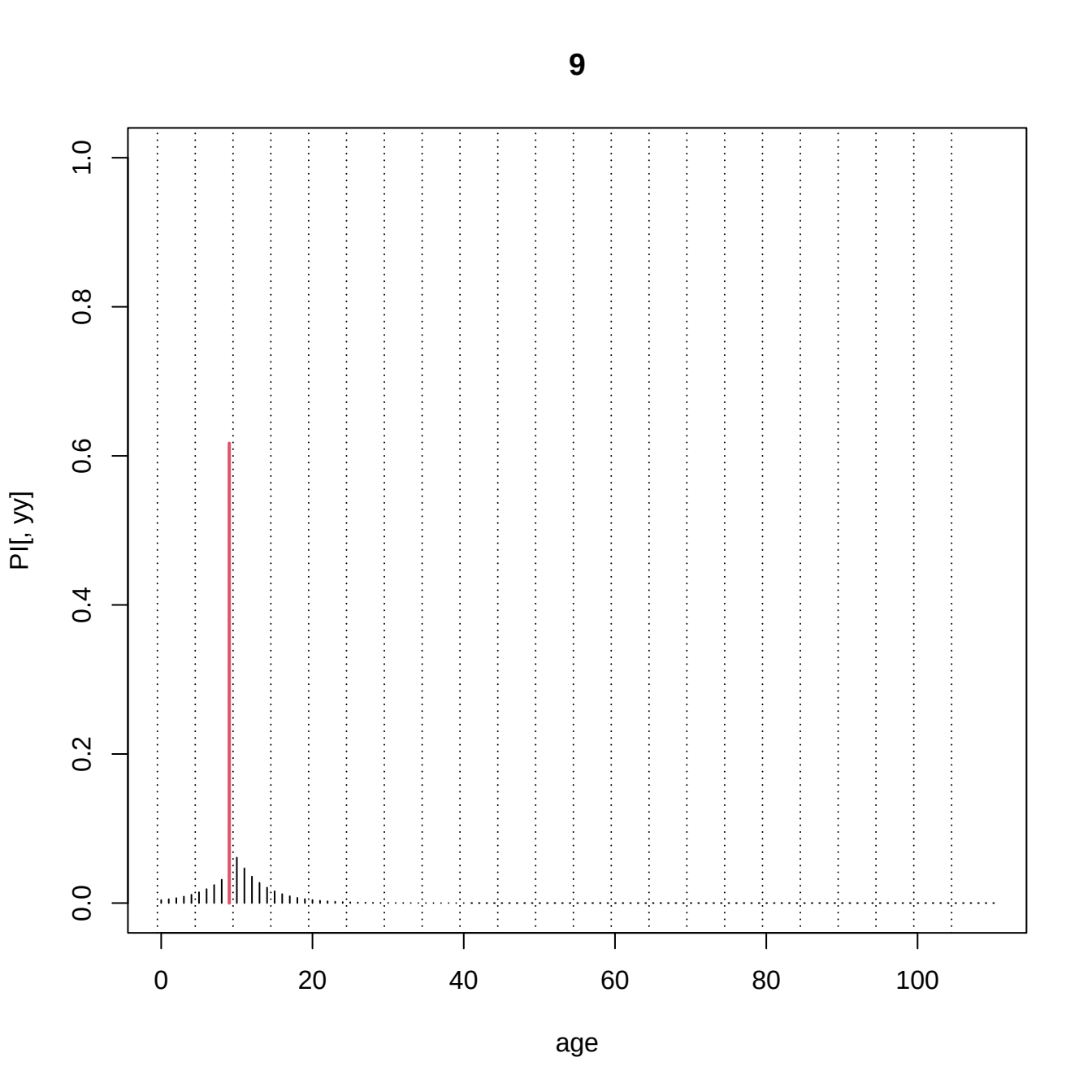

4
PI[, yy]
0.0
0.2
0.4
0.6
0.8
1.0
0
20
40
60
80
100
age

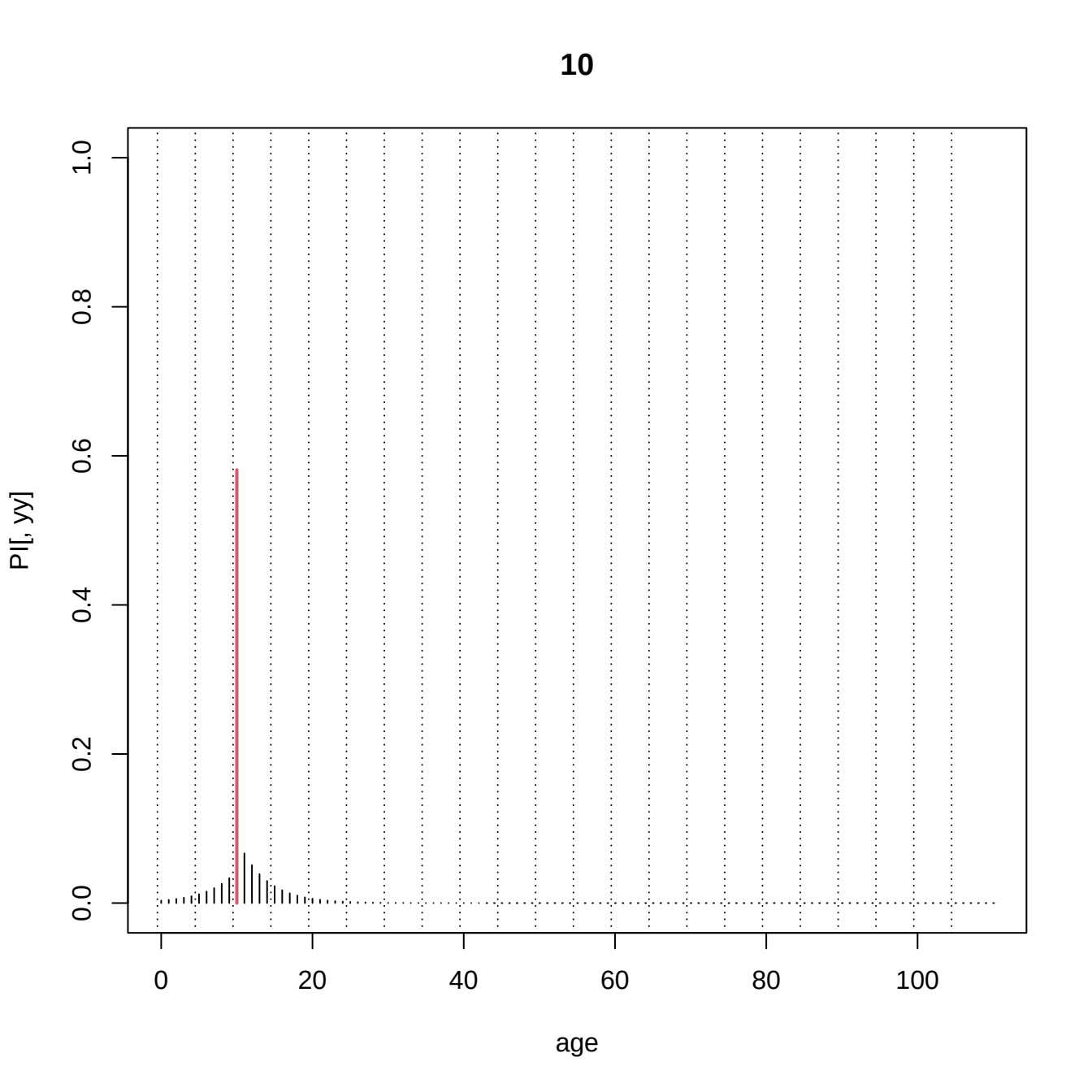

5
PI[, yy]
0.0
0.2
0.4
0.6
0.8
1.0
0
20
40
60
80
100
age

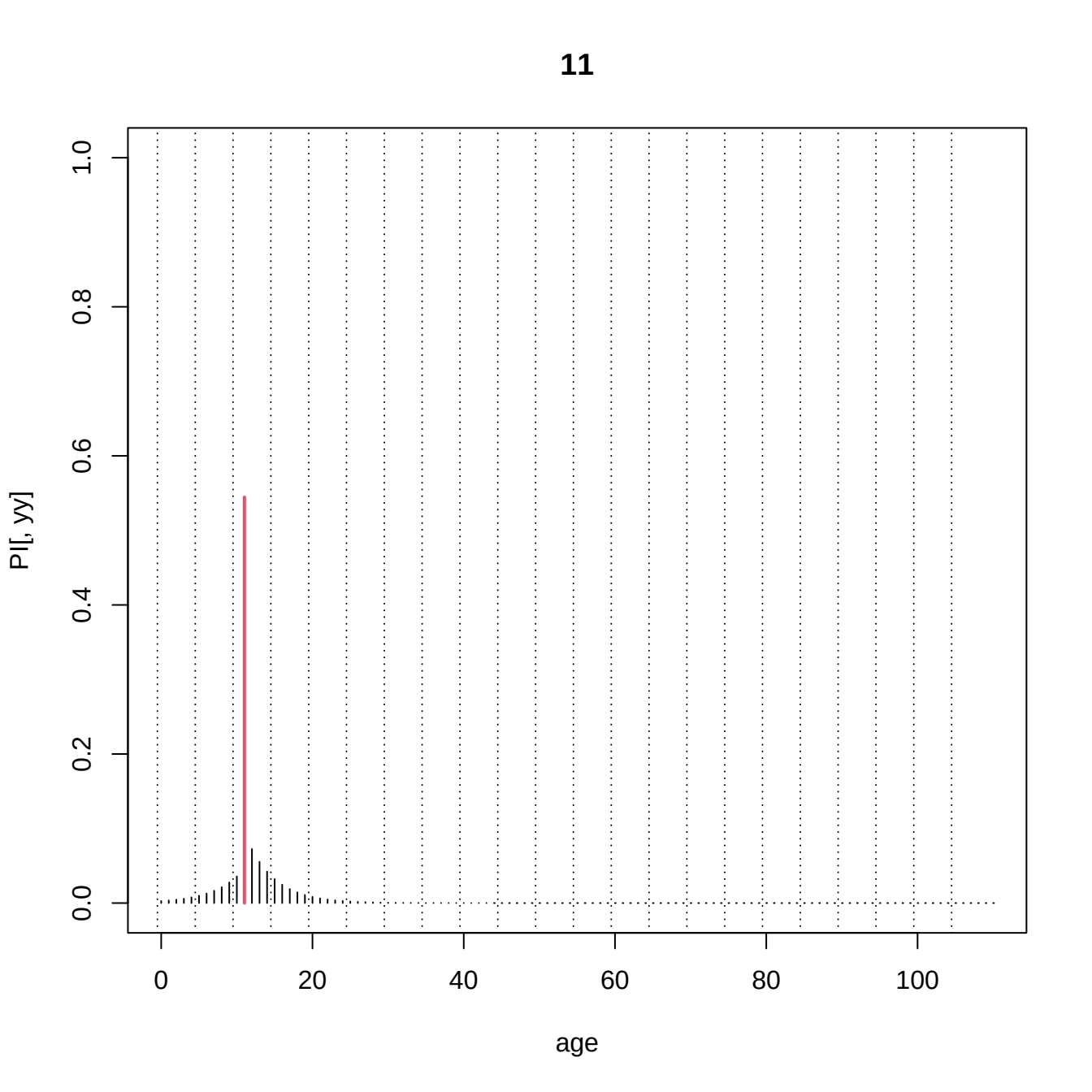

6
PI[, yy]
0.0
0.2
0.4
0.6
0.8
1.0
0
20
40
60
80
100
age

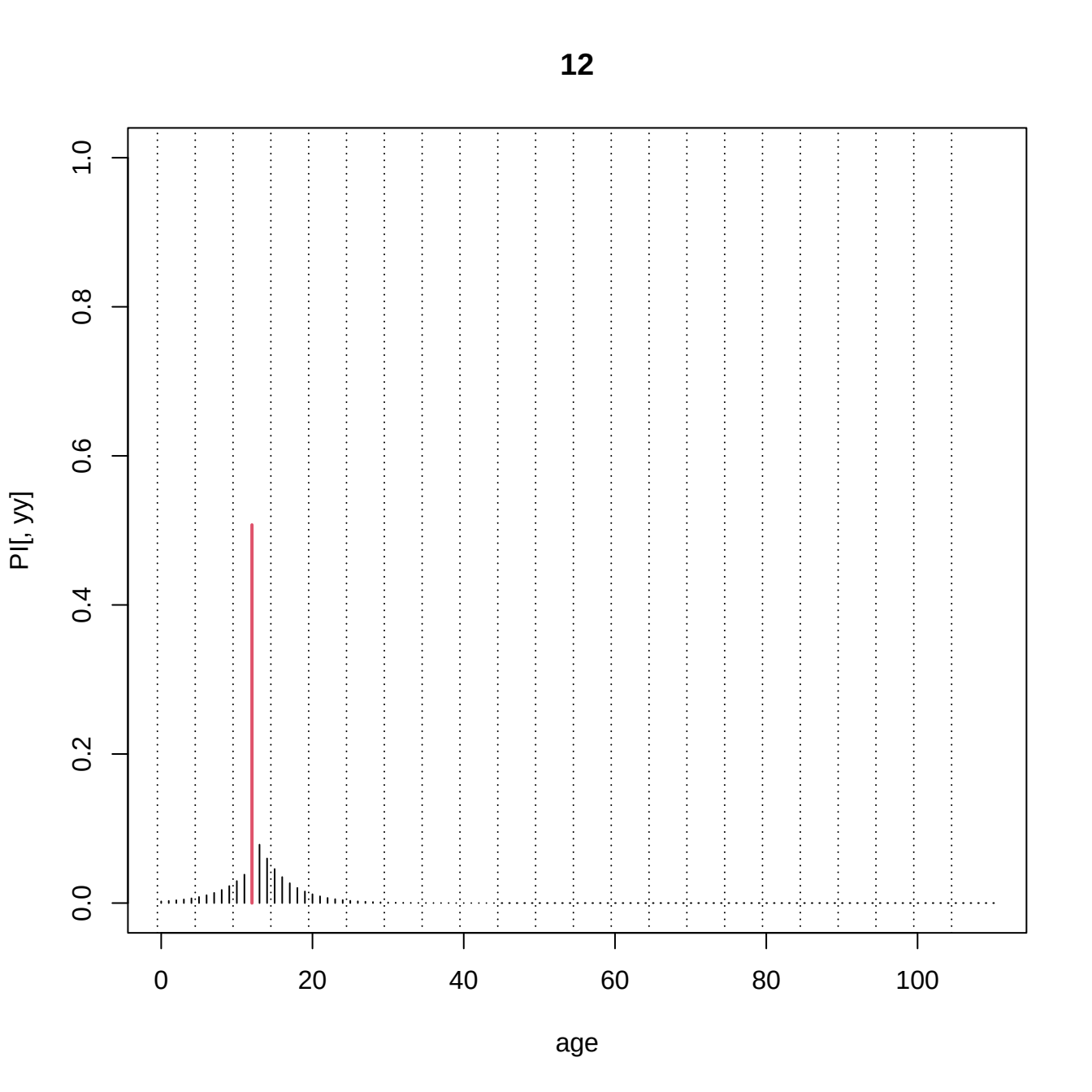

7
PI[, yy]
0.0
0.2
0.4
0.6
0.8
1.0
0
20
40
60
80
100
age

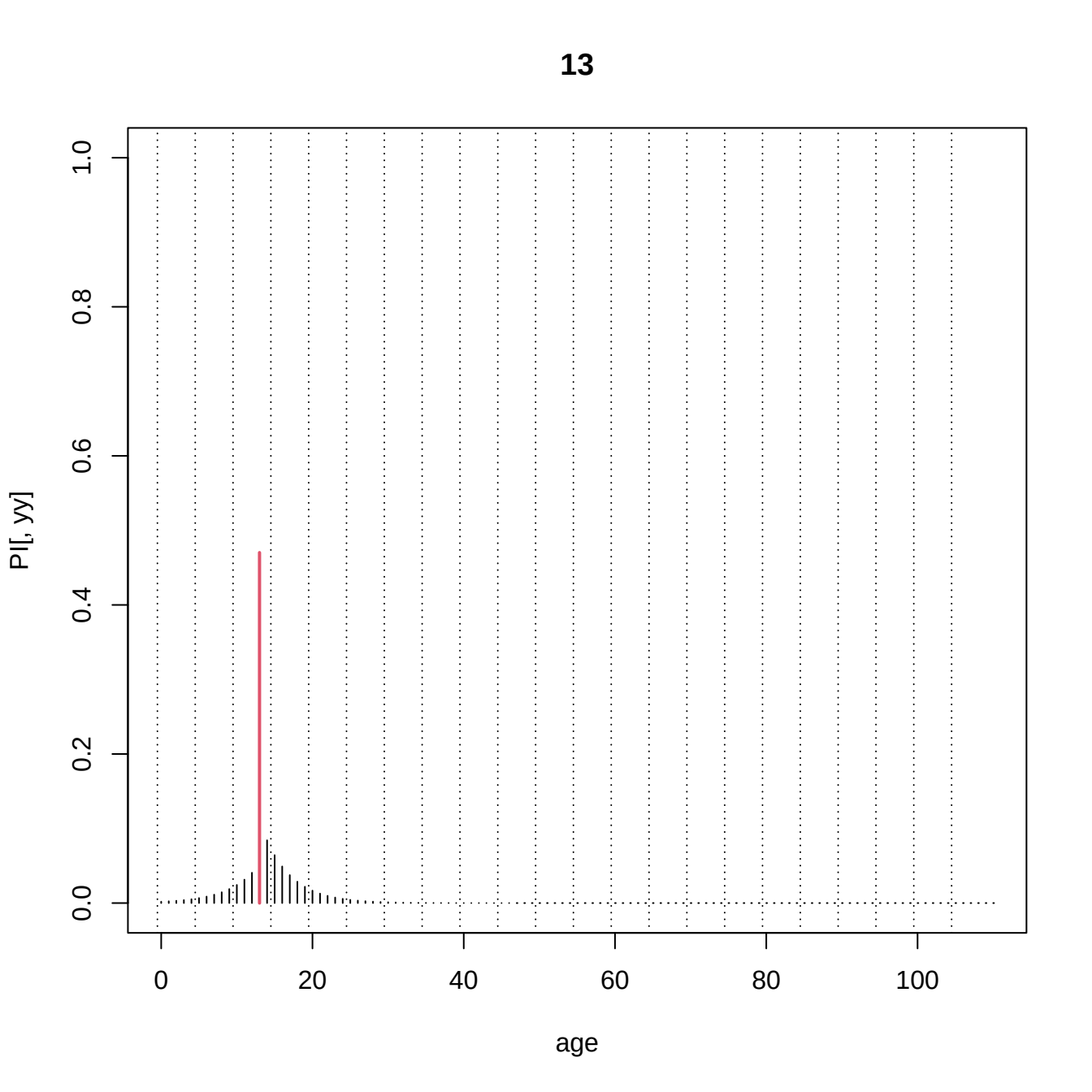

8
PI[, yy]
0.0
0.2
0.4
0.6
0.8
1.0
0
20
40
60
80
100
age

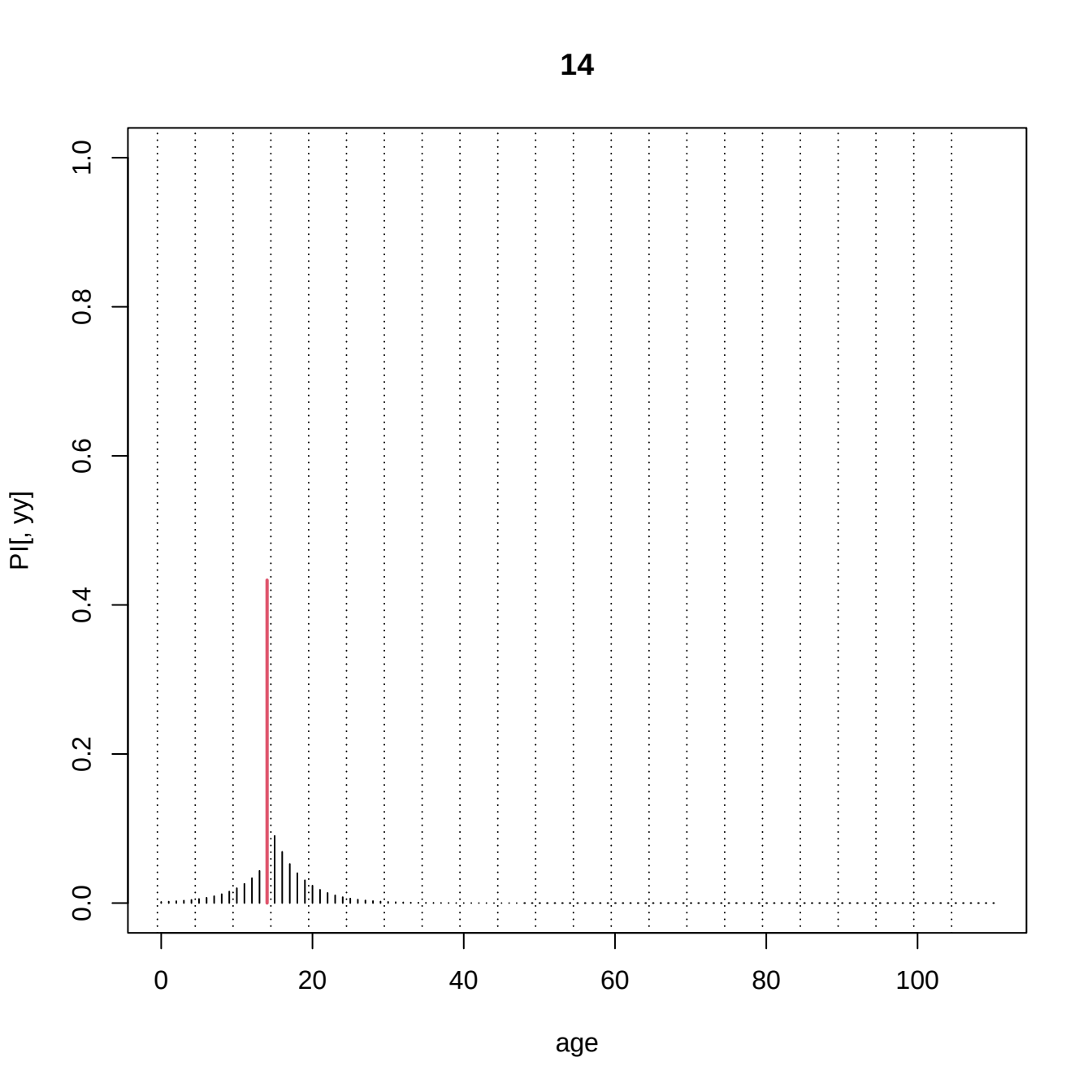

9
PI[, yy]
0.0
0.2
0.4
0.6
0.8
1.0
0
20
40
60
80
100
age

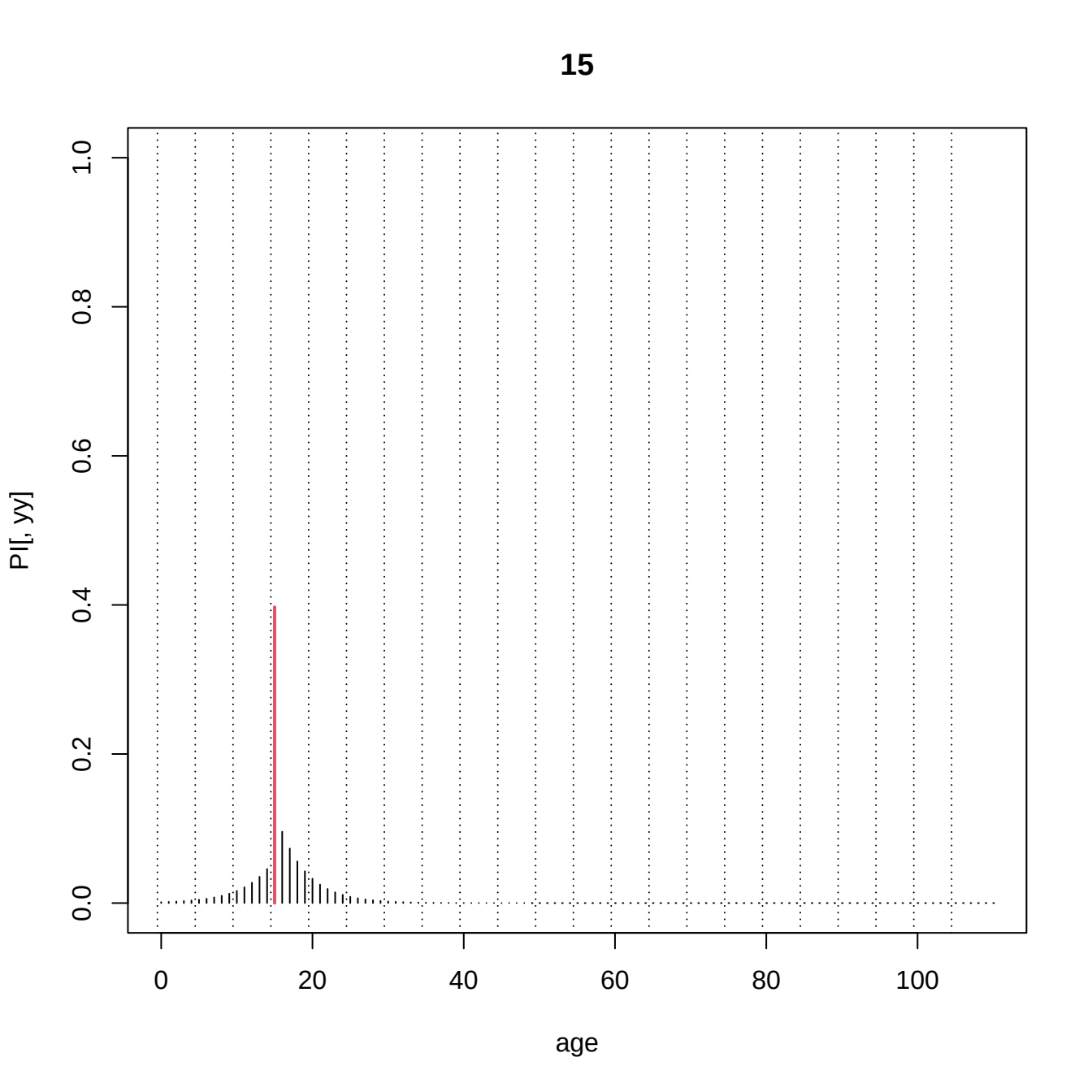

10
PI[, yy]
0.0
0.2
0.4
0.6
0.8
1.0
0
20
40
60
80
100
age

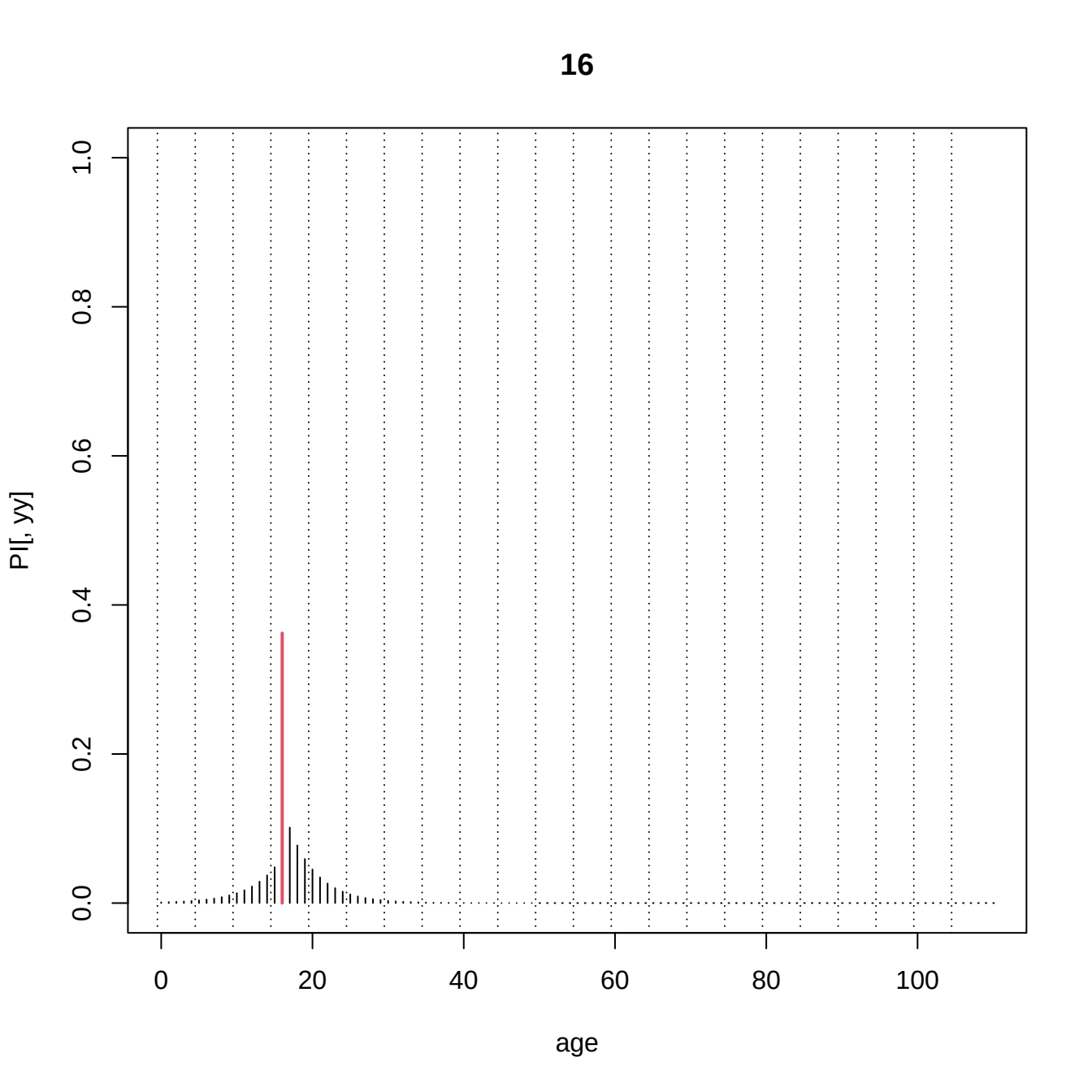

11
PI[, yy]
0.0
0.2
0.4
0.6
0.8
1.0
0
20
40
60
80
100
age

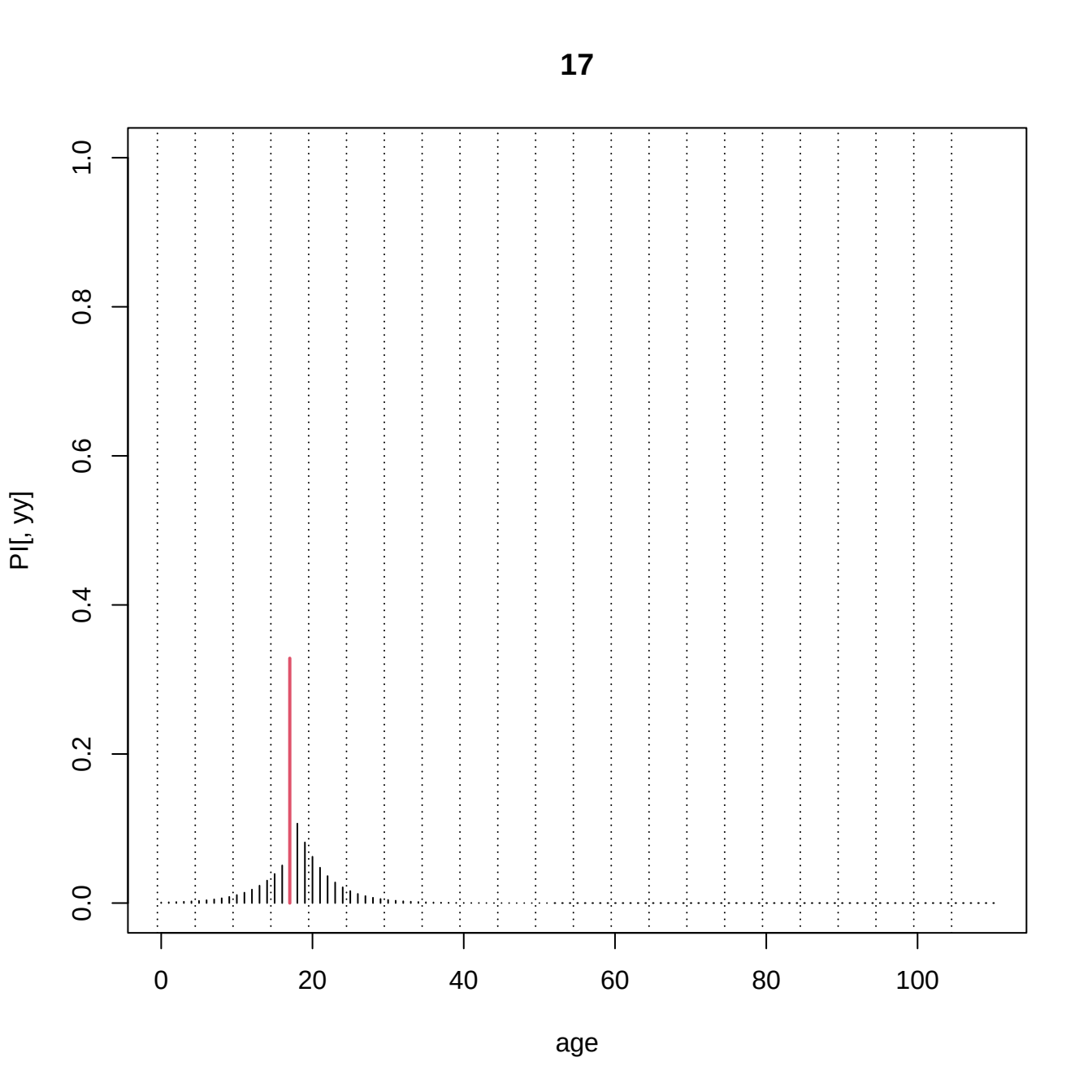

12
PI[, yy]
0.0
0.2
0.4
0.6
0.8
1.0
0
20
40
60
80
100
age

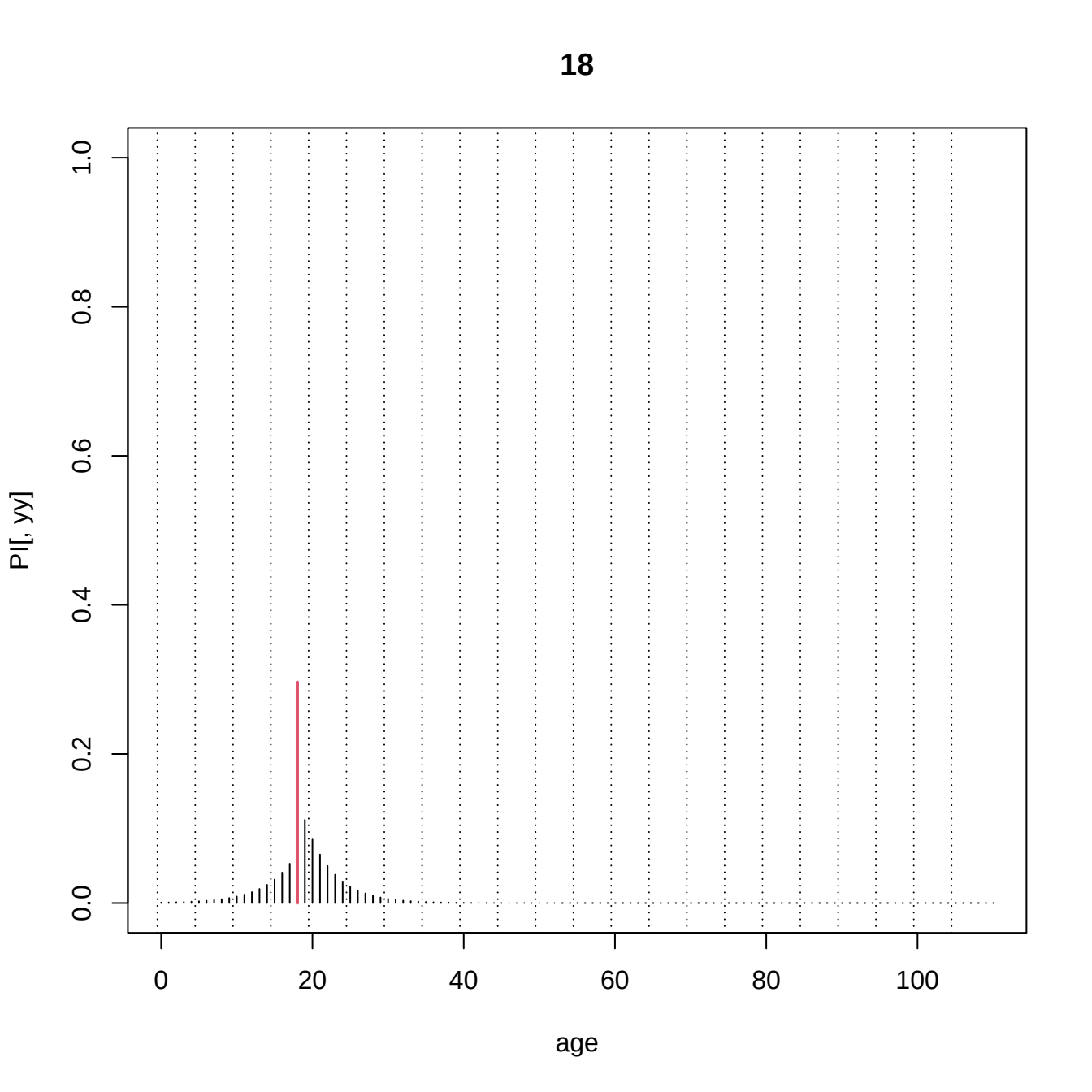

13
PI[, yy]
0.0
0.2
0.4
0.6
0.8
1.0
0
20
40
60
80
100
age

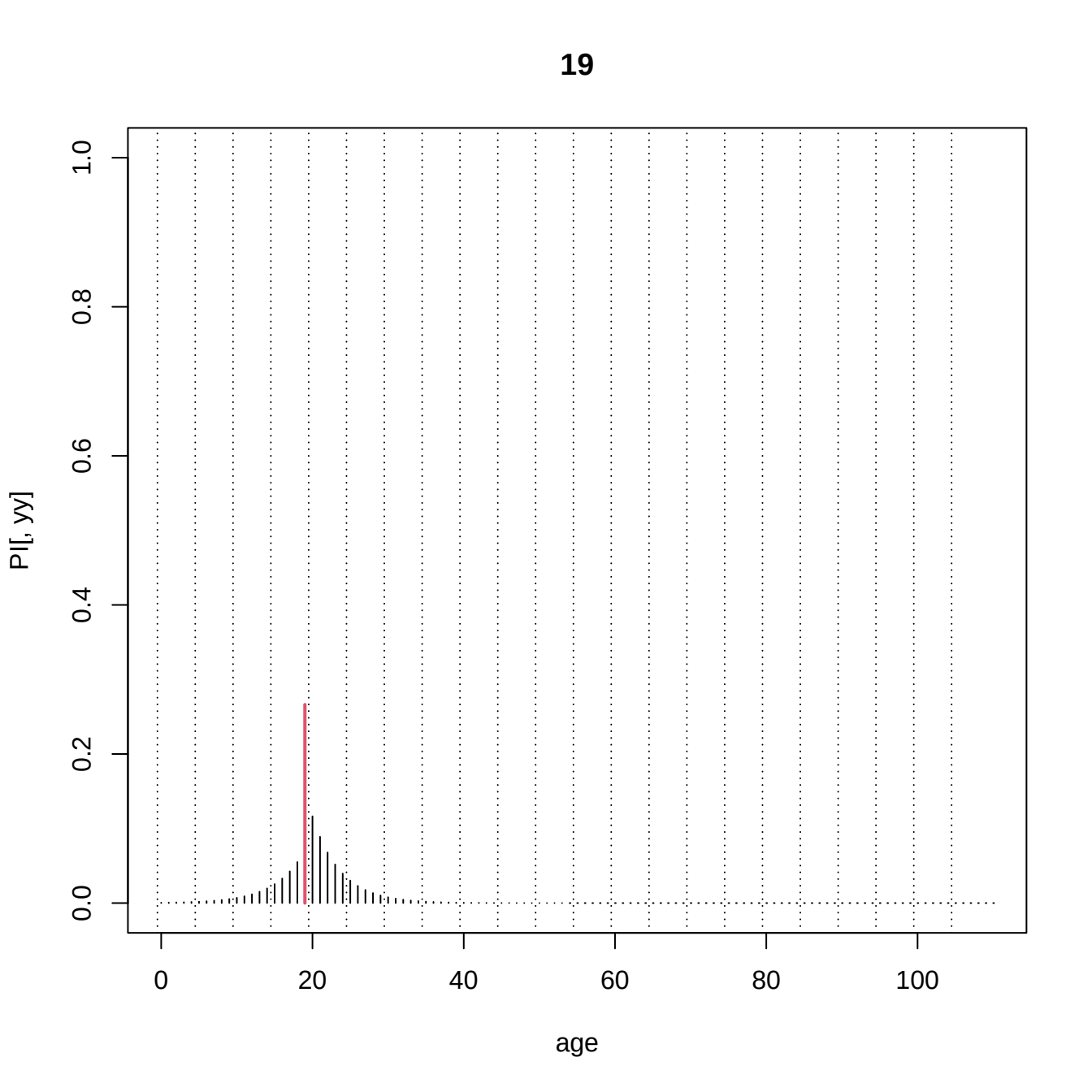

14
PI[, yy]
0.0
0.2
0.4
0.6
0.8
1.0
0
20
40
60
80
100
age

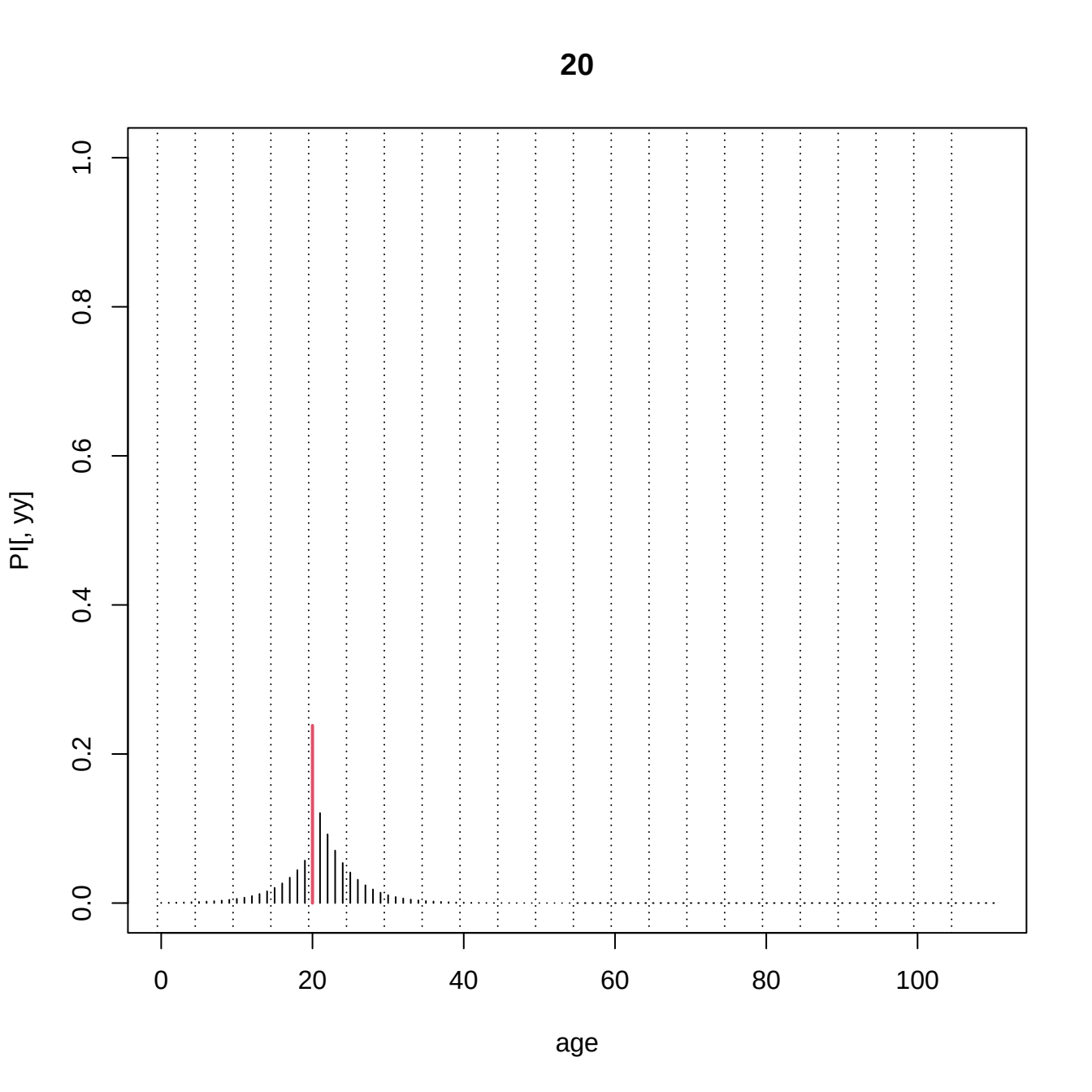

15
PI[, yy]
0.0
0.2
0.4
0.6
0.8
1.0
0
20
40
60
80
100
age

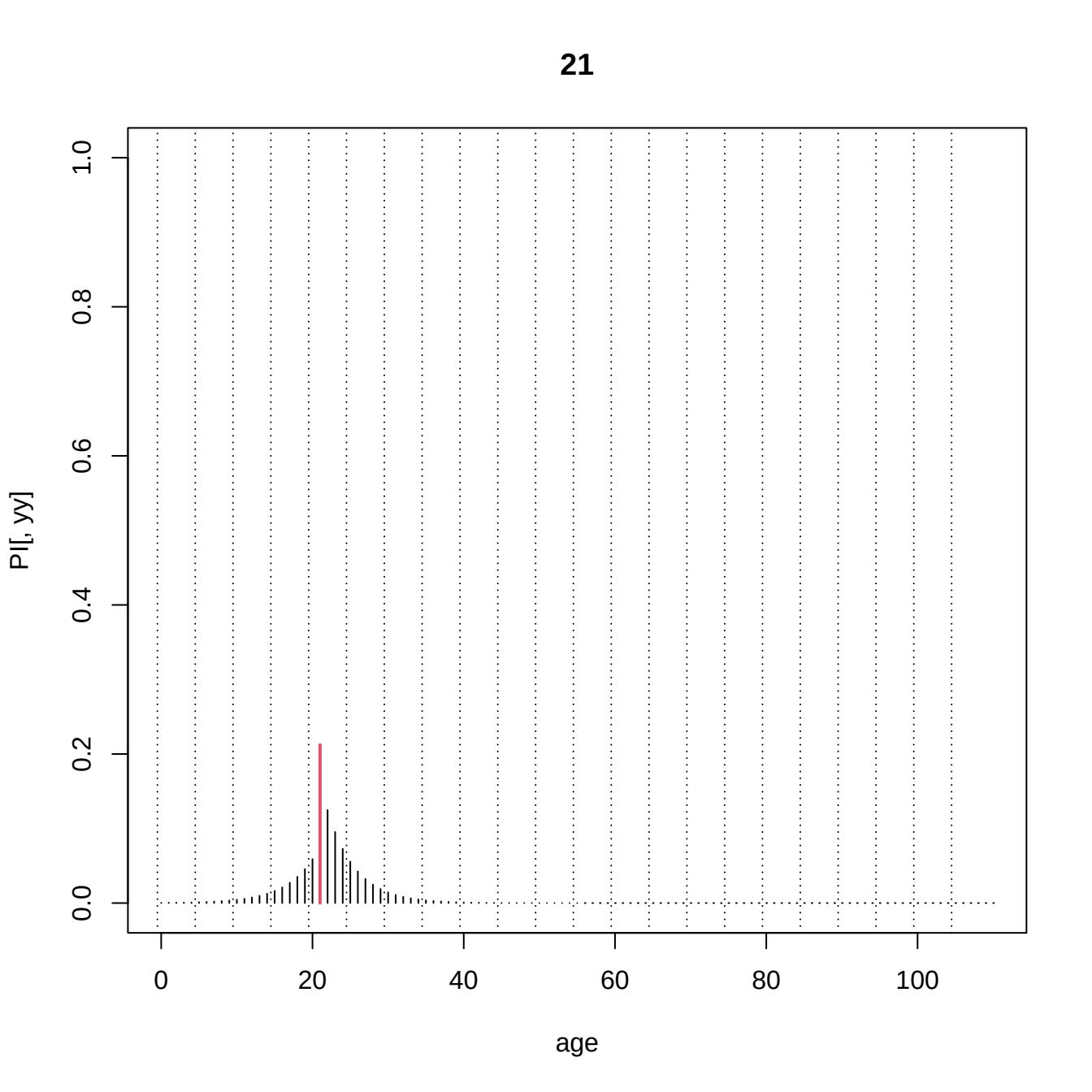

16
PI[, yy]
0.0
0.2
0.4
0.6
0.8
1.0
0
20
40
60
80
100
age

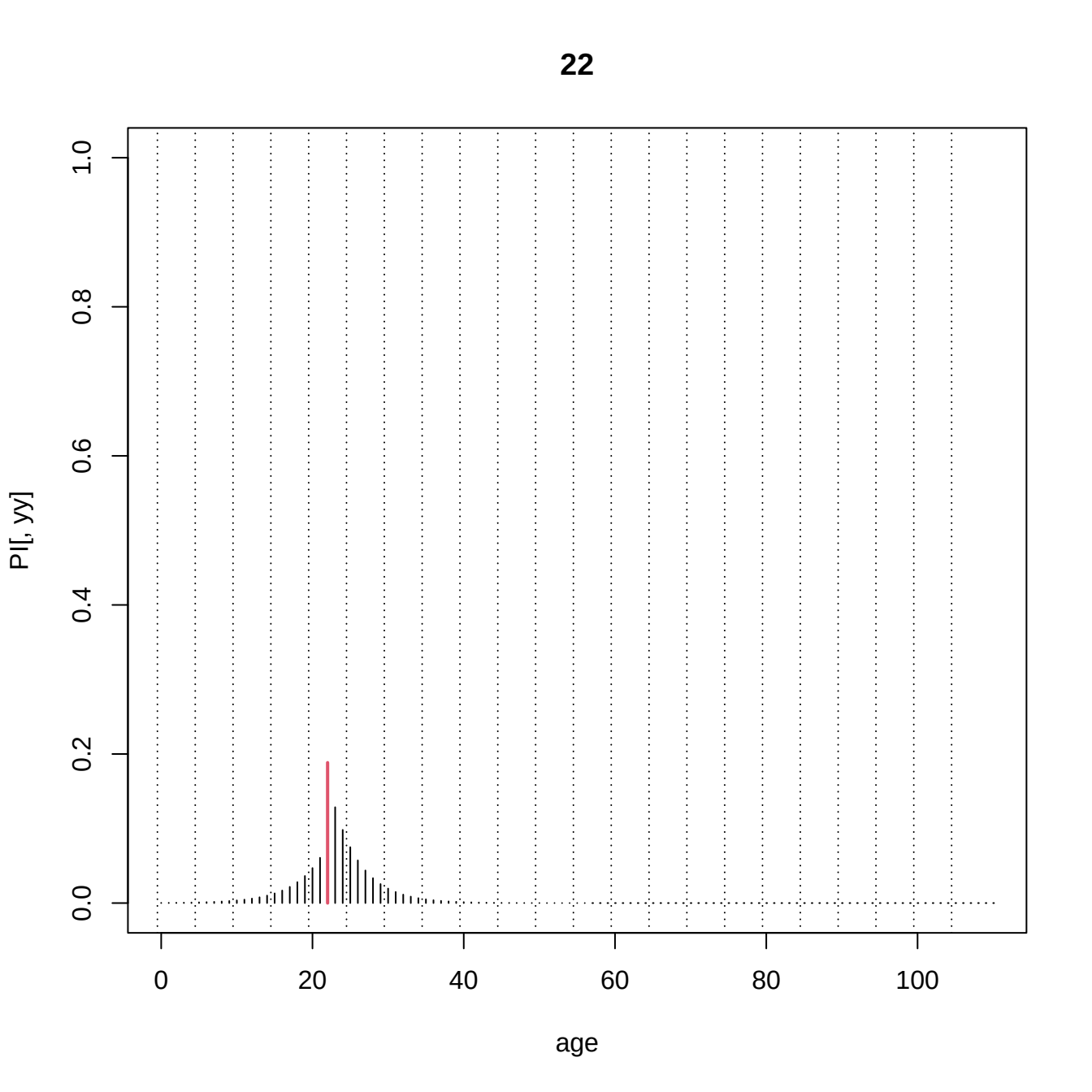

17
PI[, yy]
0.0
0.2
0.4
0.6
0.8
1.0
0
20
40
60
80
100
age

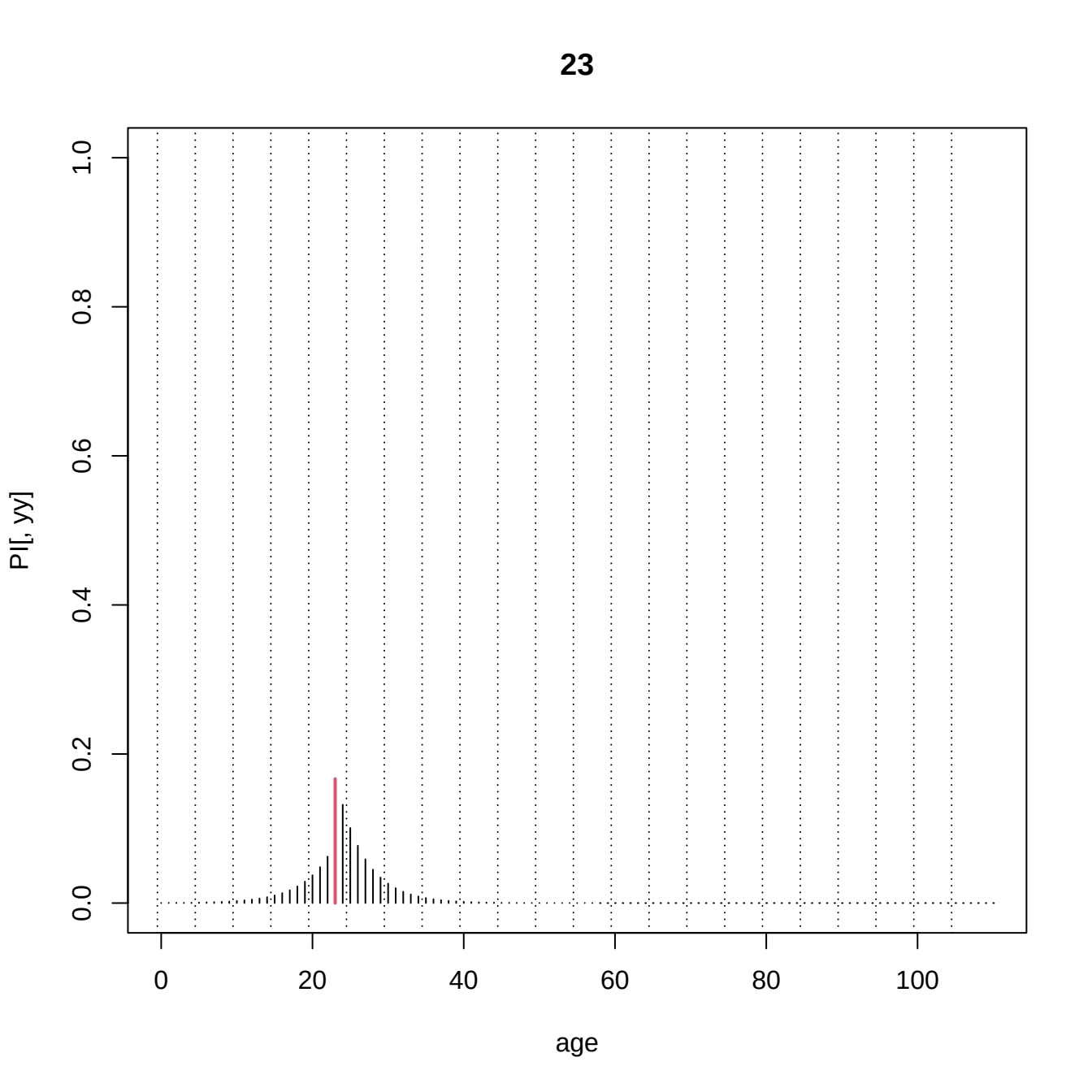

18
PI[, yy]
0.0
0.2
0.4
0.6
0.8
1.0
0
20
40
60
80
100
age

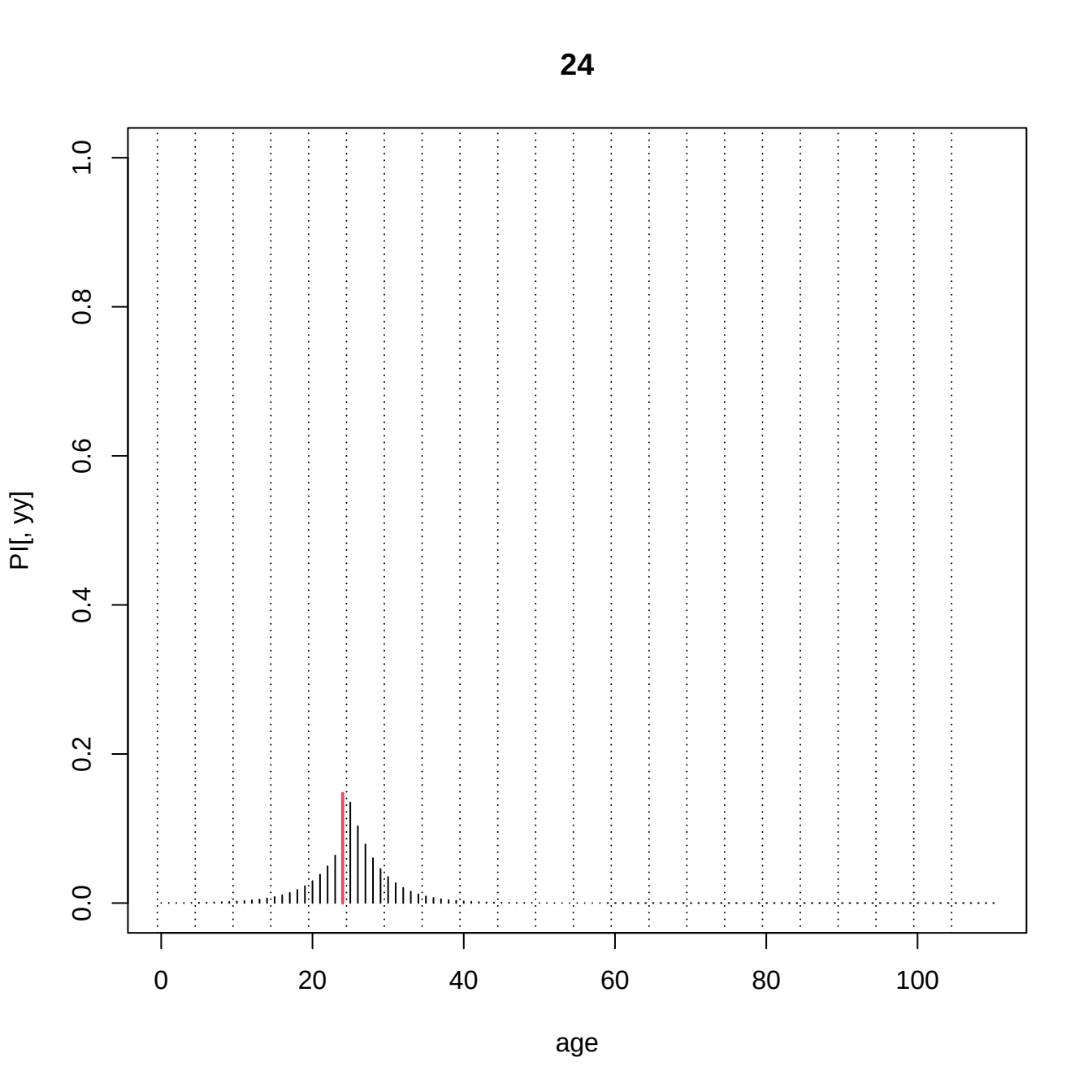

19
PI[, yy]
0.0
0.2
0.4
0.6
0.8
1.0
0
20
40
60
80
100
age

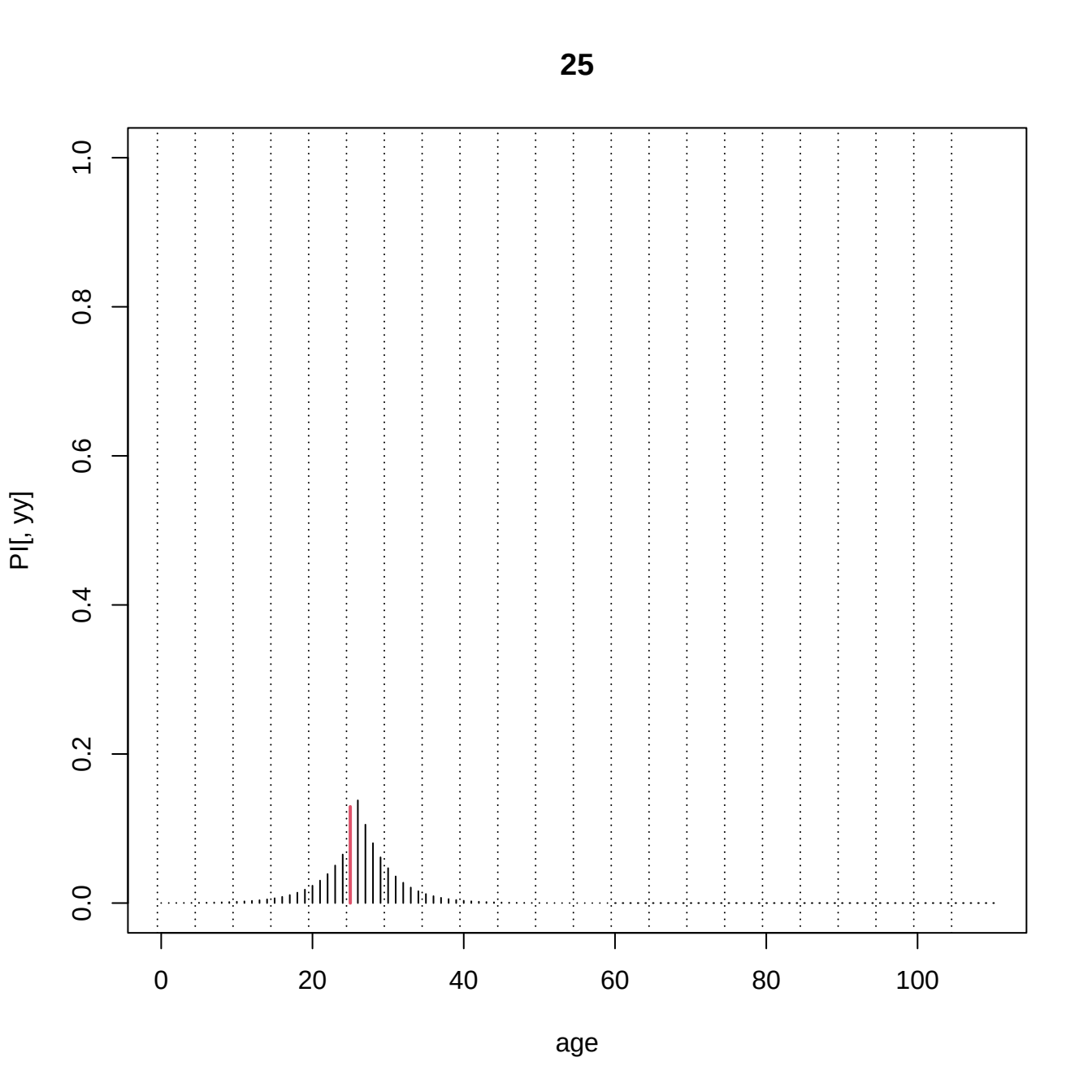

20
PI[, yy]
0.0
0.2
0.4
0.6
0.8
1.0
0
20
40
60
80
100
age

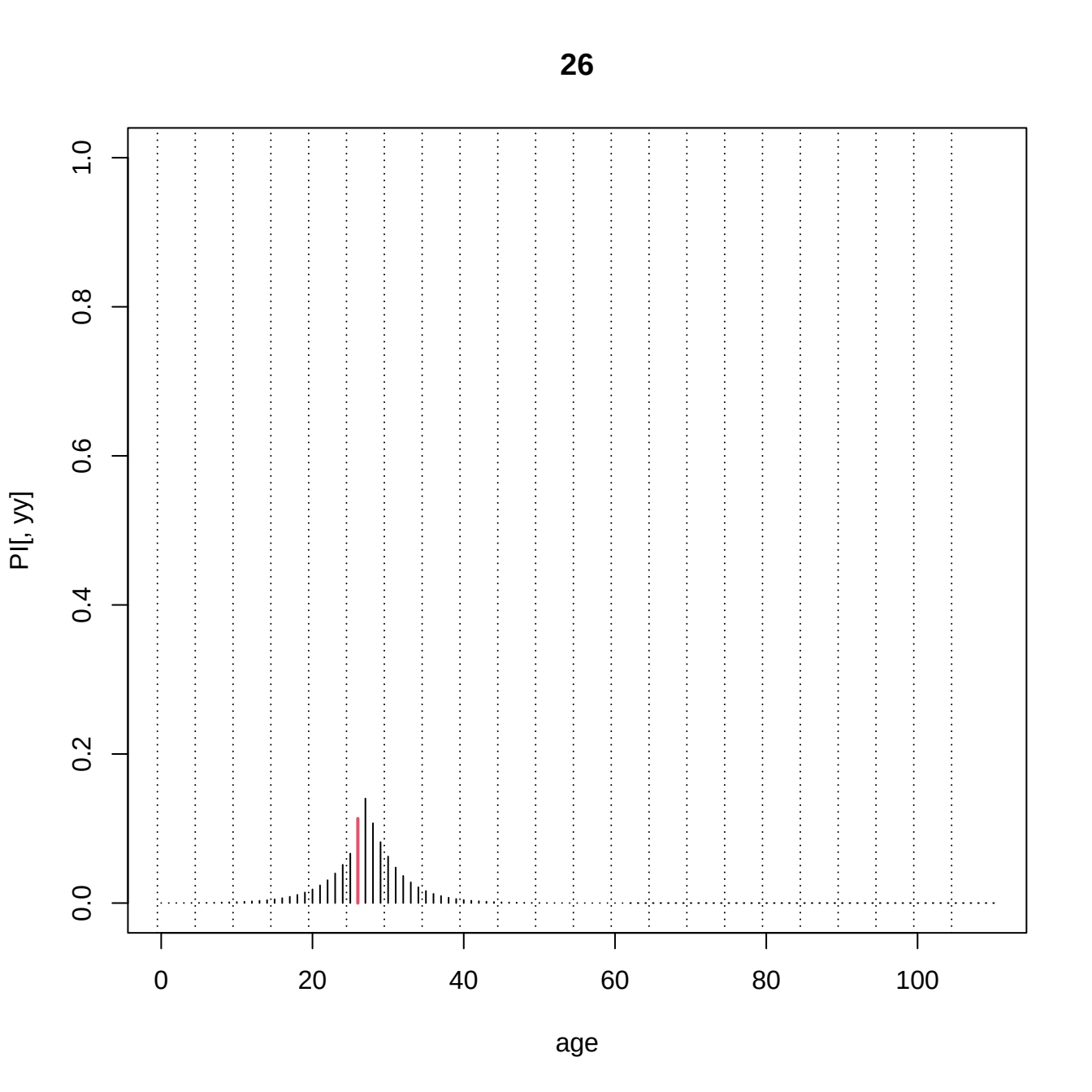

21
PI[, yy]
0.0
0.2
0.4
0.6
0.8
1.0
0
20
40
60
80
100
age

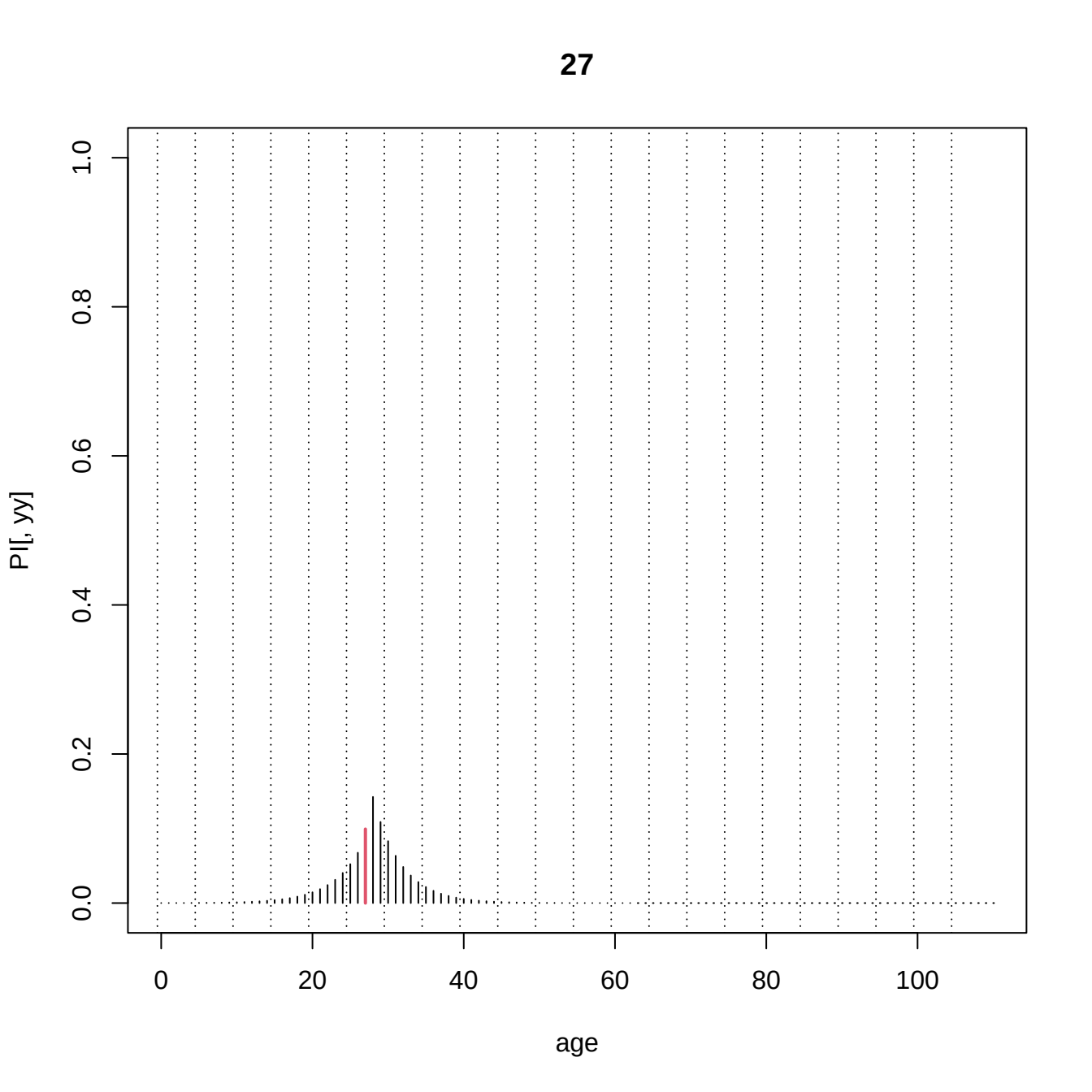

22
PI[, yy]
0.0
0.2
0.4
0.6
0.8
1.0
0
20
40
60
80
100
age

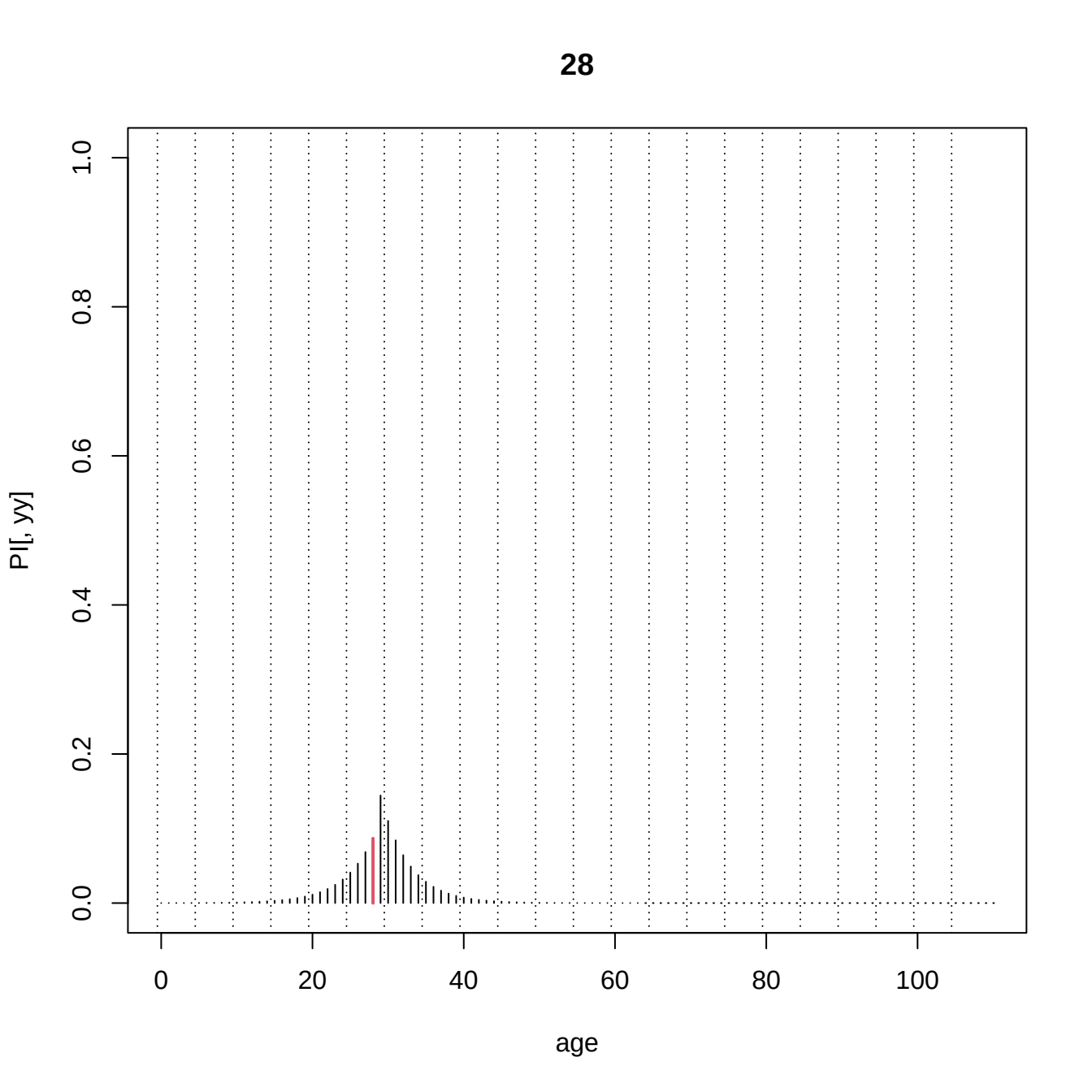

23
PI[, yy]
0.0
0.2
0.4
0.6
0.8
1.0
0
20
40
60
80
100
age

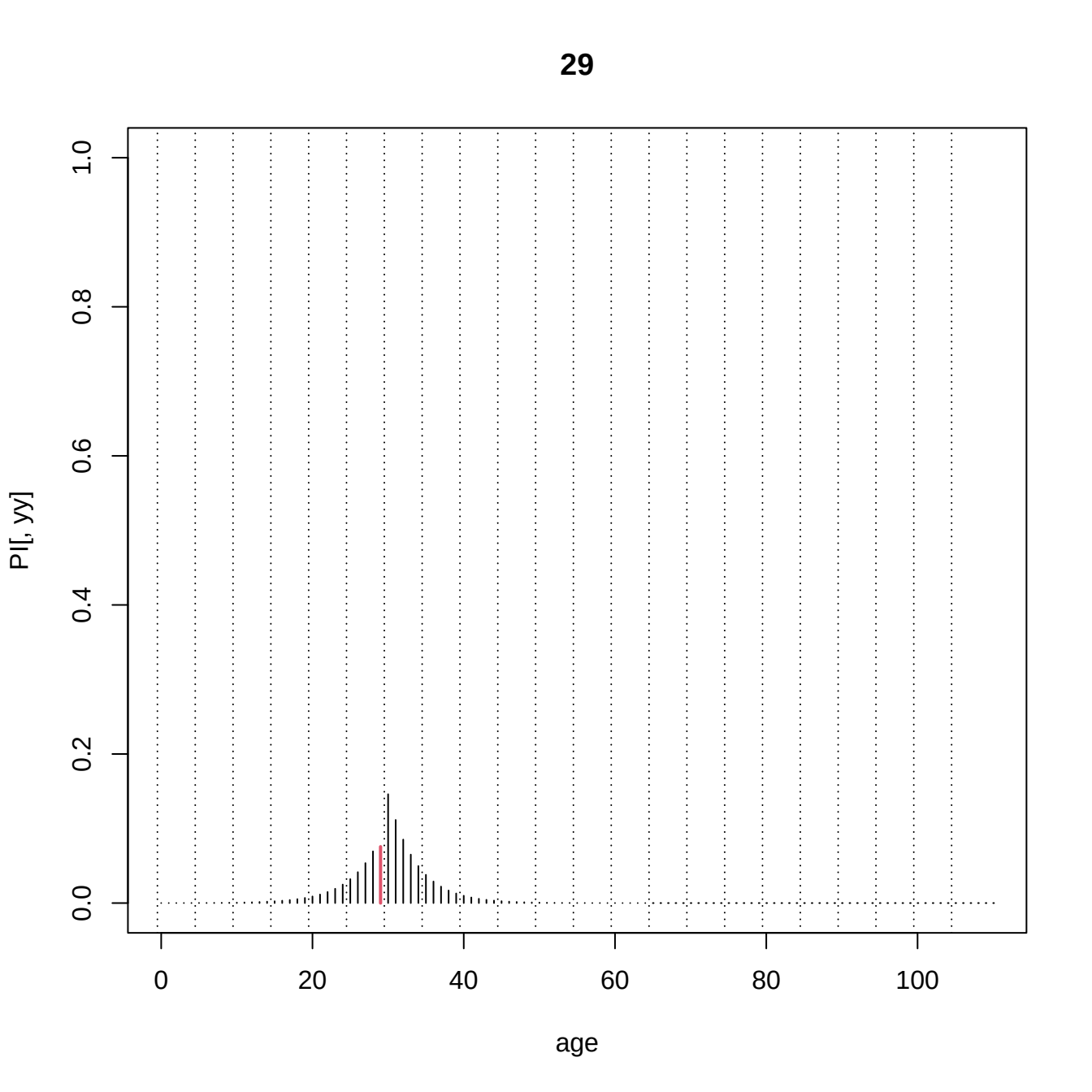

24
PI[, yy]
0.0
0.2
0.4
0.6
0.8
1.0
0
20
40
60
80
100
age

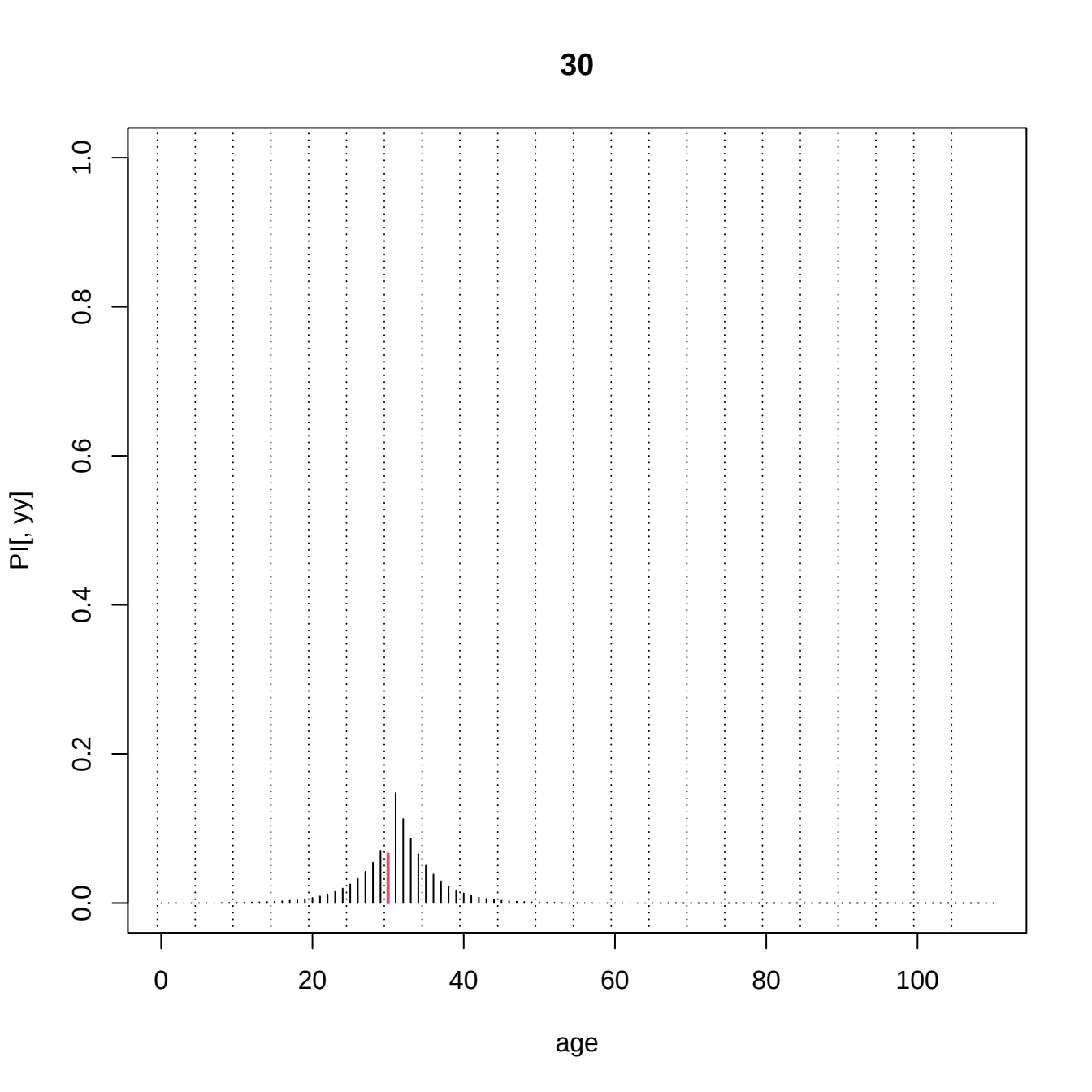

25
PI[, yy]
0.0
0.2
0.4
0.6
0.8
1.0
0
20
40
60
80
100
age

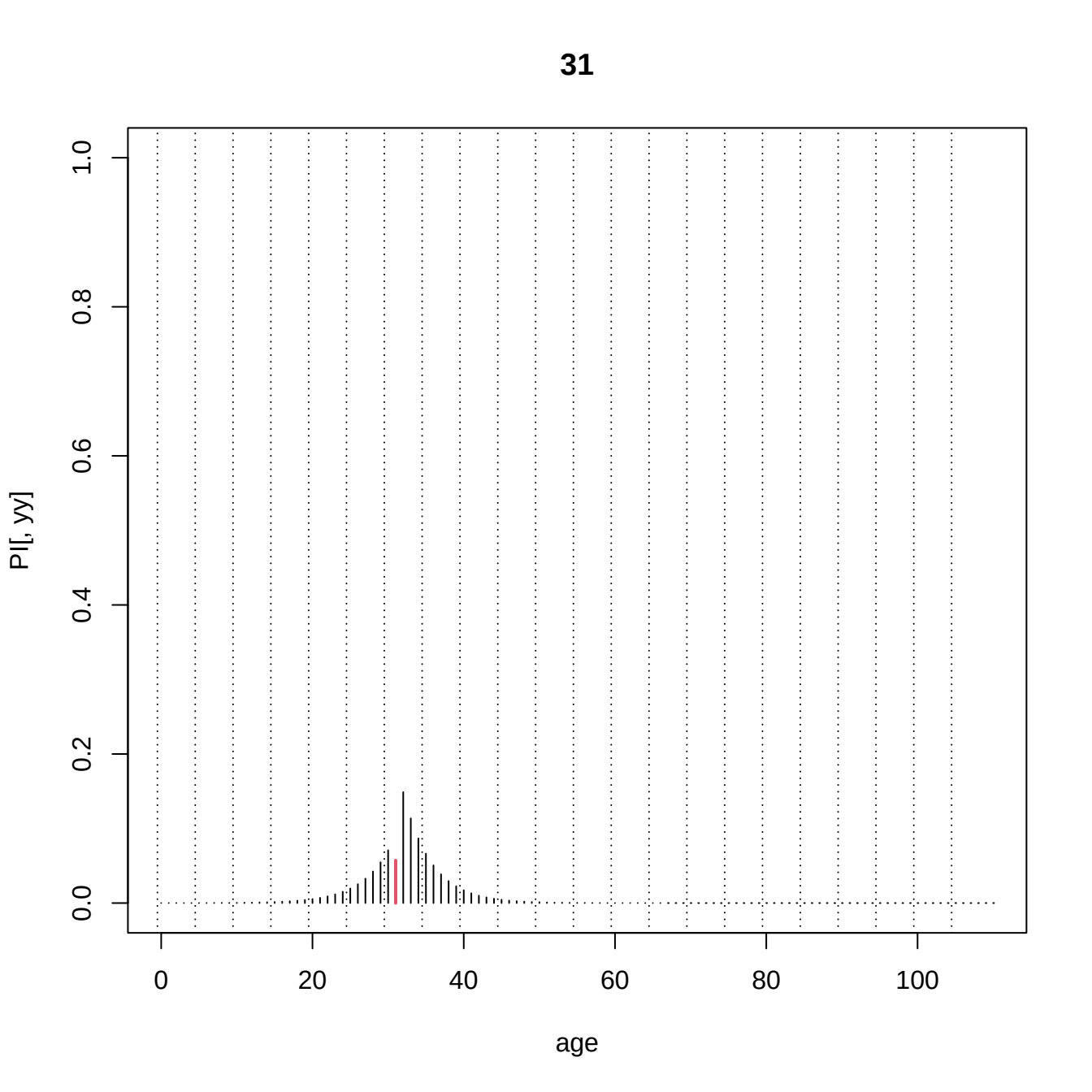

26
PI[, yy]
0.0
0.2
0.4
0.6
0.8
1.0
0
20
40
60
80
100
age

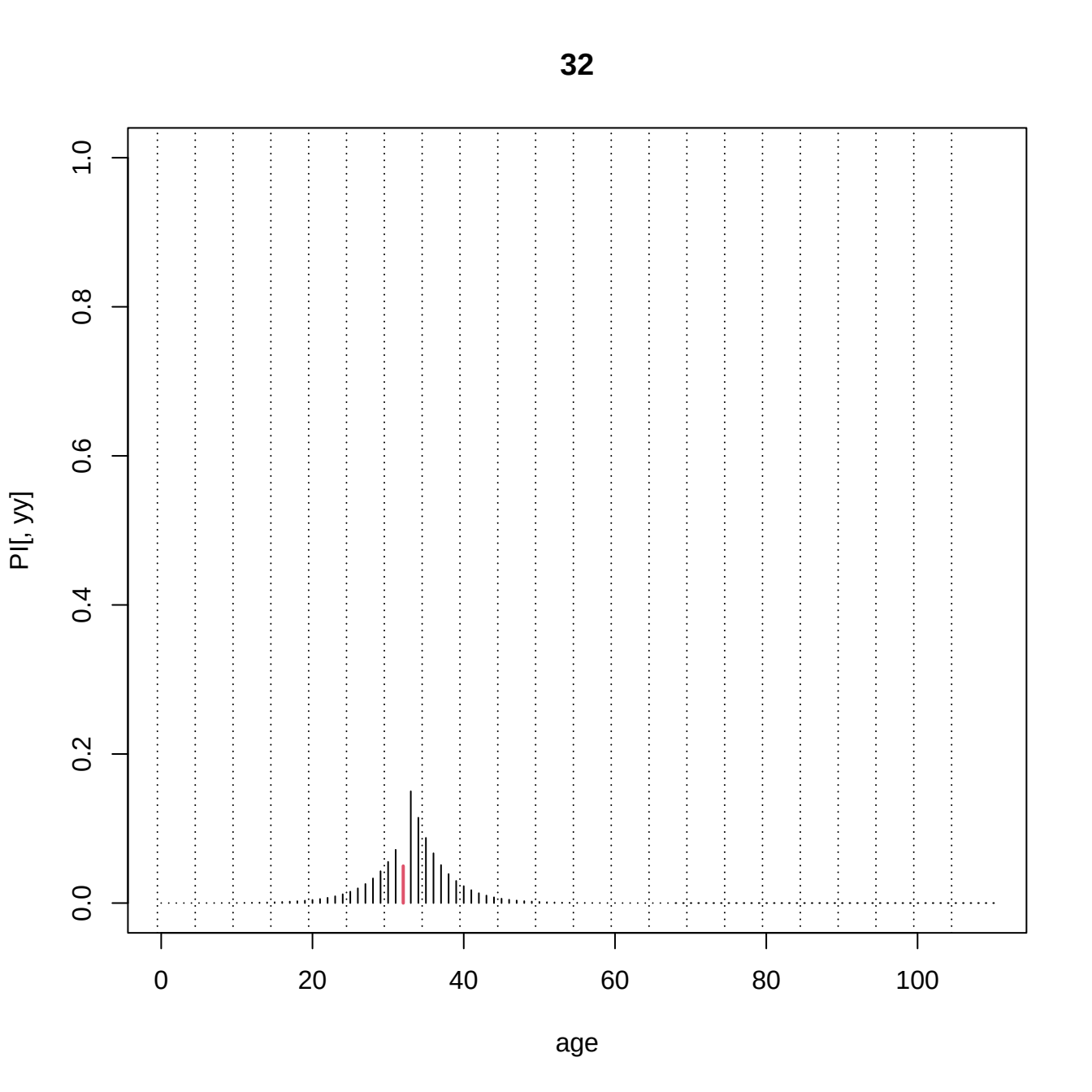

27
PI[, yy]
0.0
0.2
0.4
0.6
0.8
1.0
0
20
40
60
80
100
age


28
PI[, yy]
0.0
0.2
0.4
0.6
0.8
1.0
0
20
40
60
80
100
age


29
PI[, yy]
0.0
0.2
0.4
0.6
0.8
1.0
0
20
40
60
80
100
age


30
PI[, yy]
0.0
0.2
0.4
0.6
0.8
1.0
0
20
40
60
80
100
age


31
PI[, yy]
0.0
0.2
0.4
0.6
0.8
1.0
0
20
40
60
80
100
age


32
PI[, yy]
0.0
0.2
0.4
0.6
0.8
1.0
0
20
40
60
80
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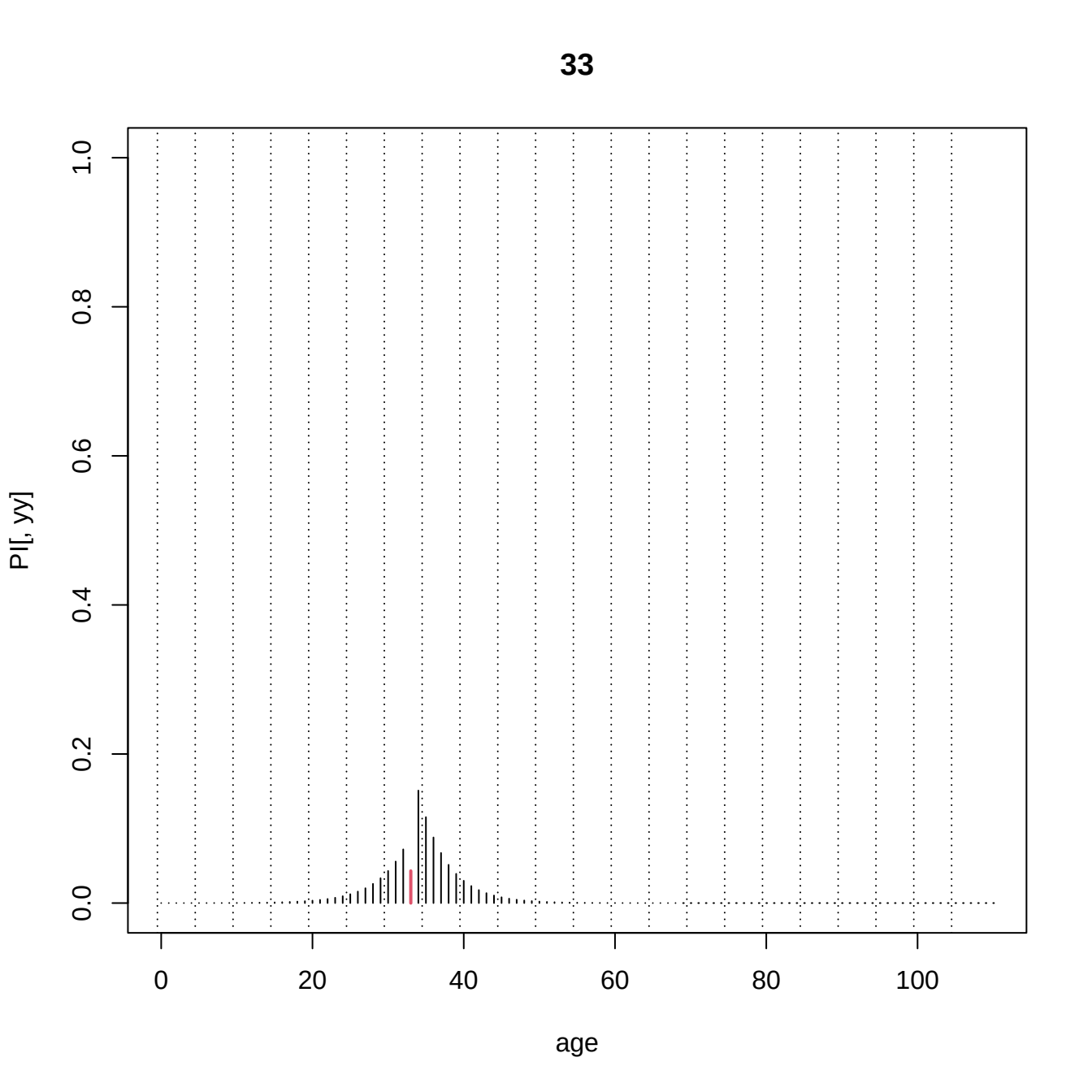
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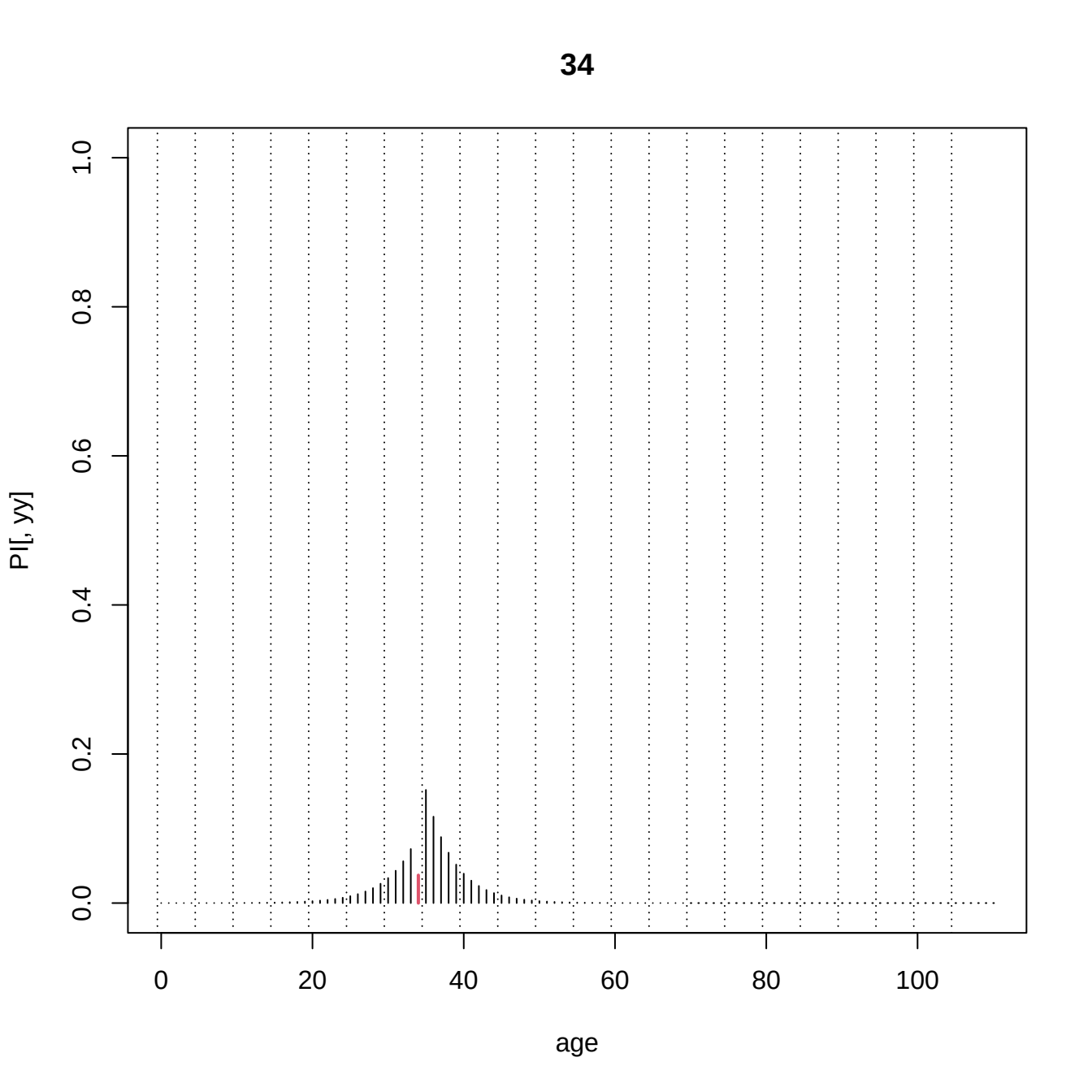
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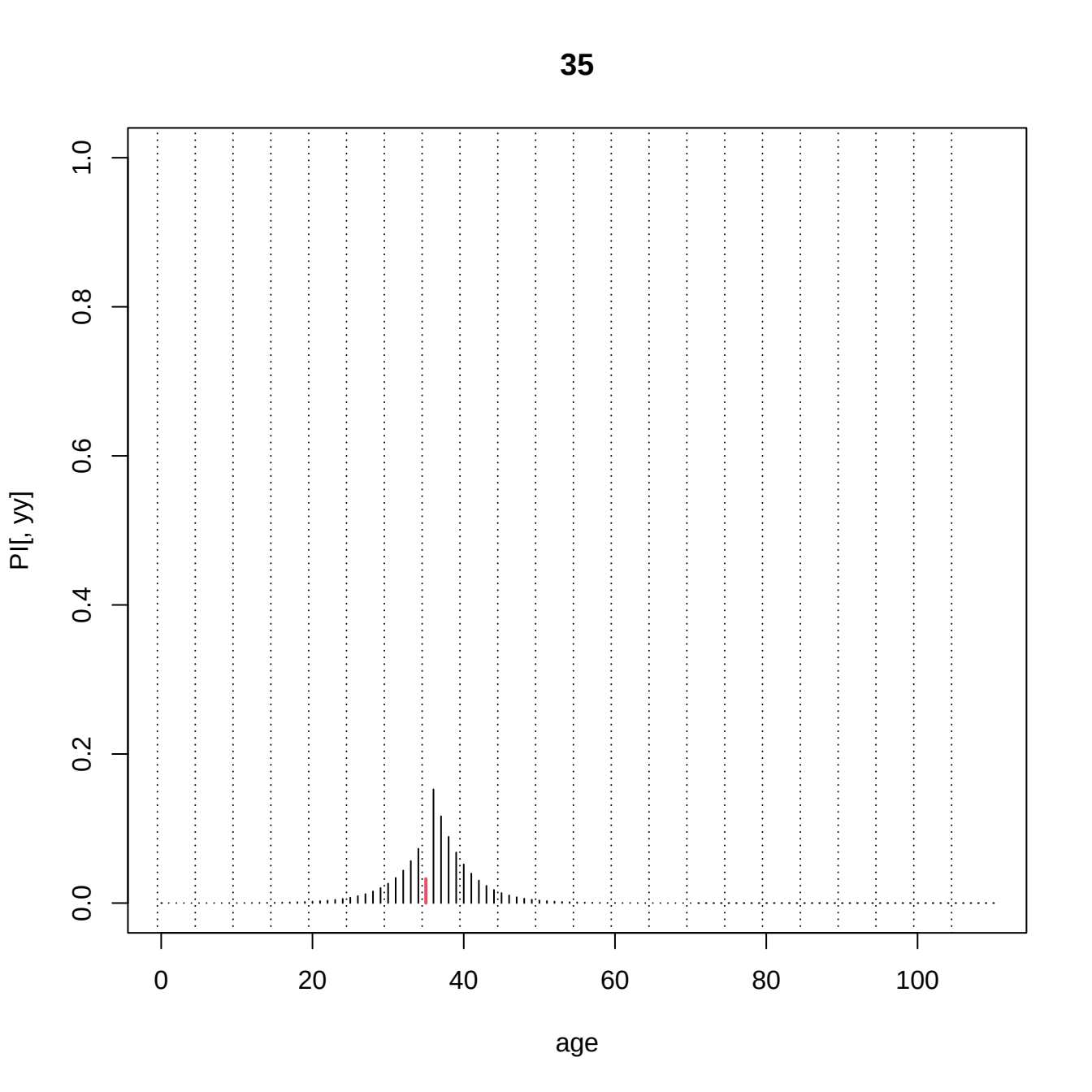
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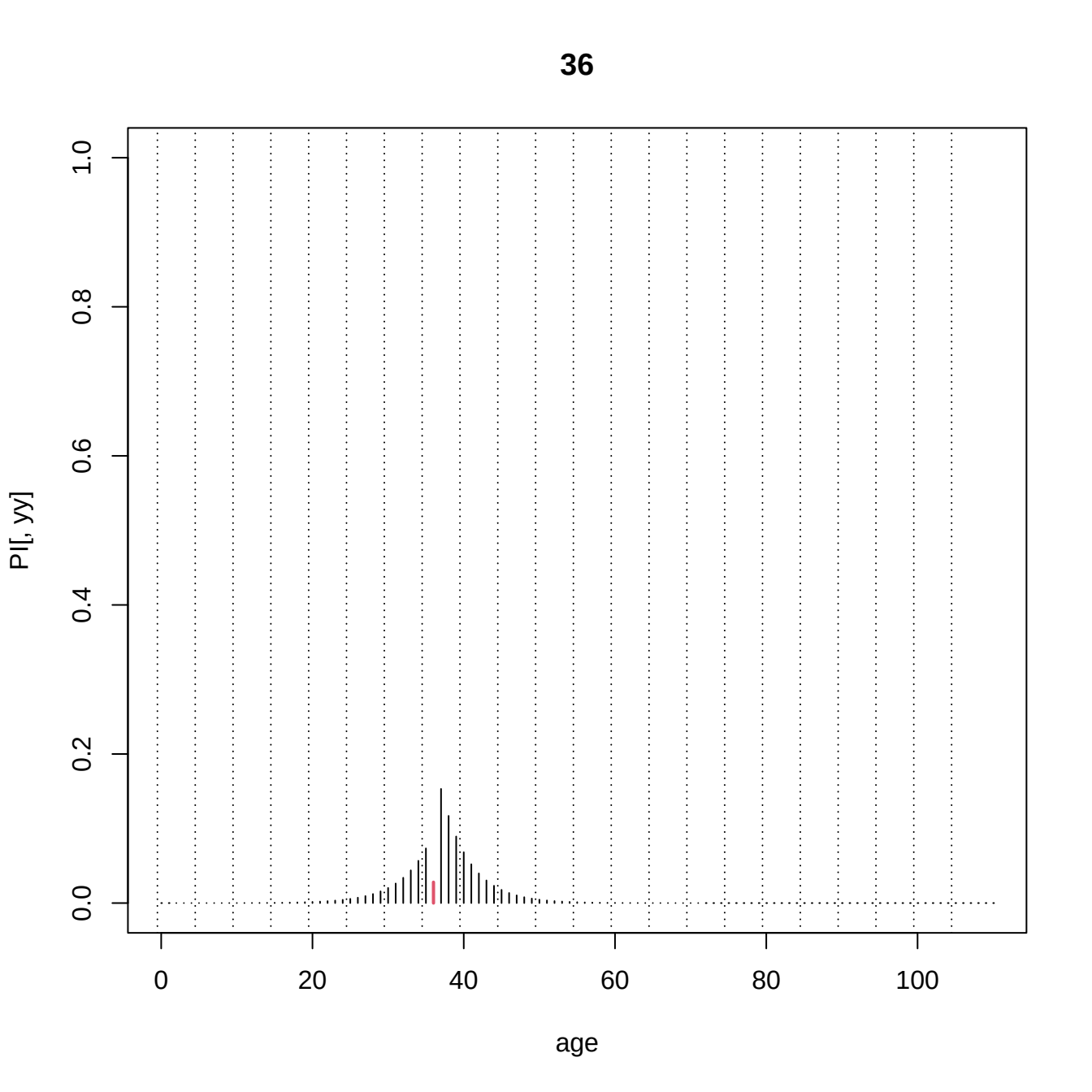
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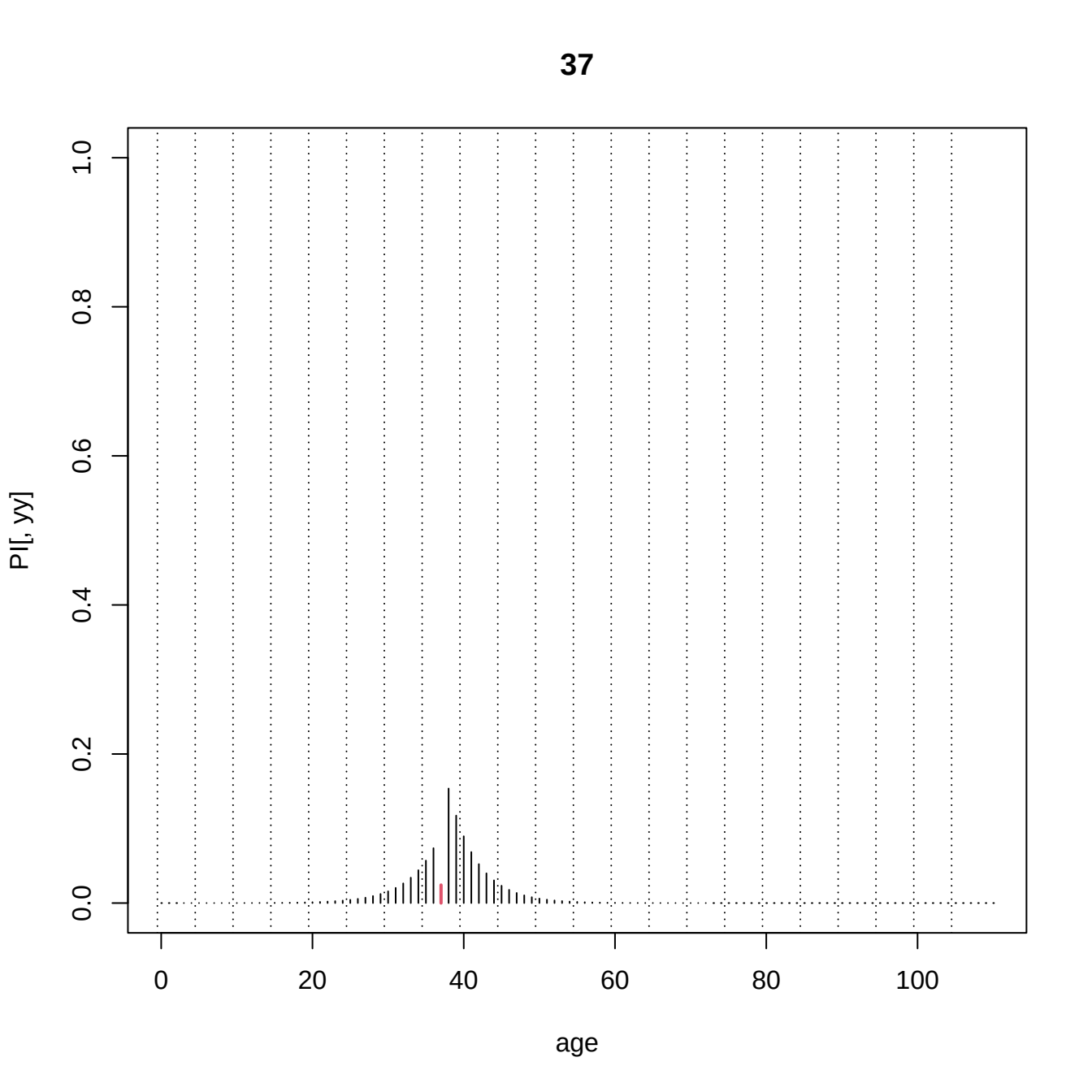
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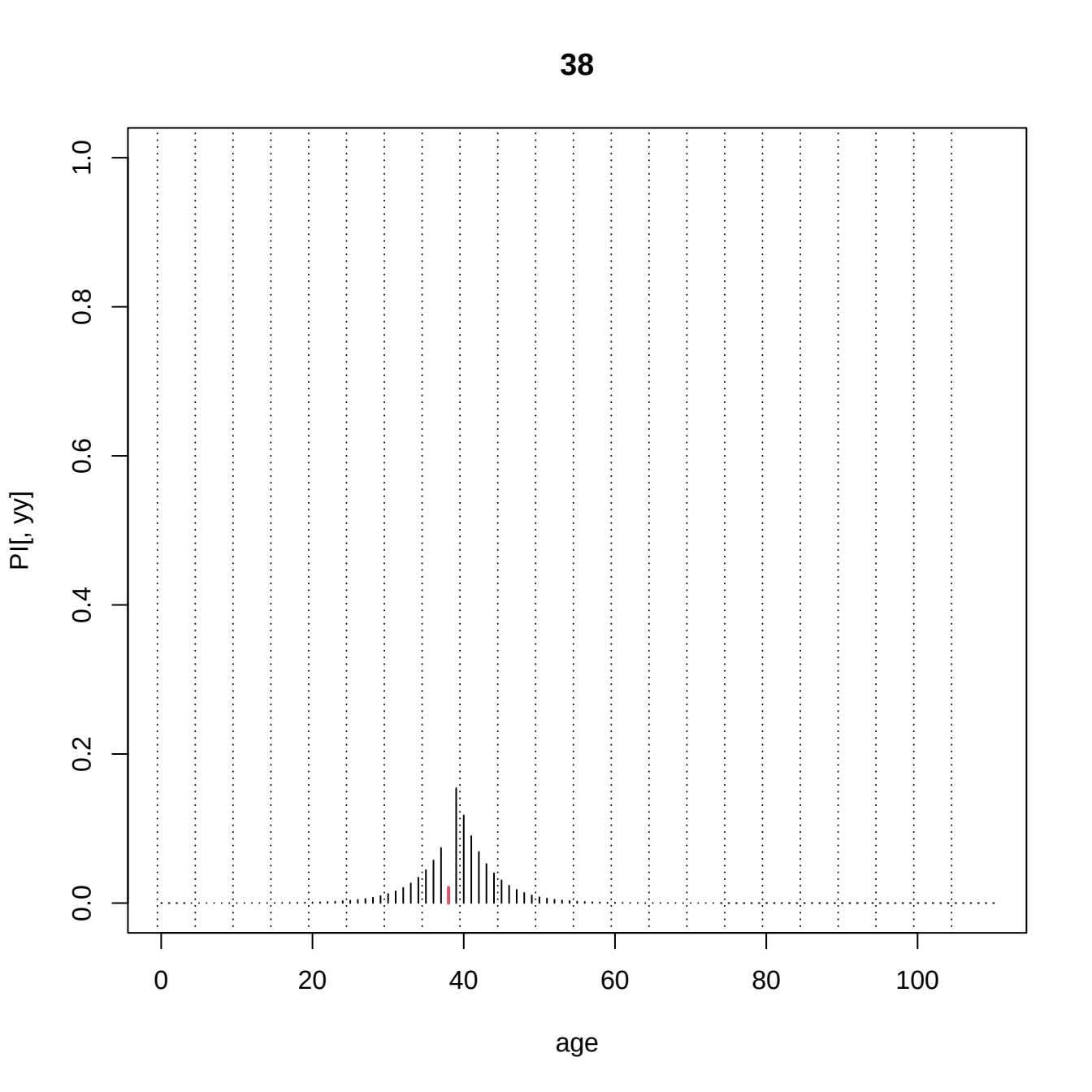
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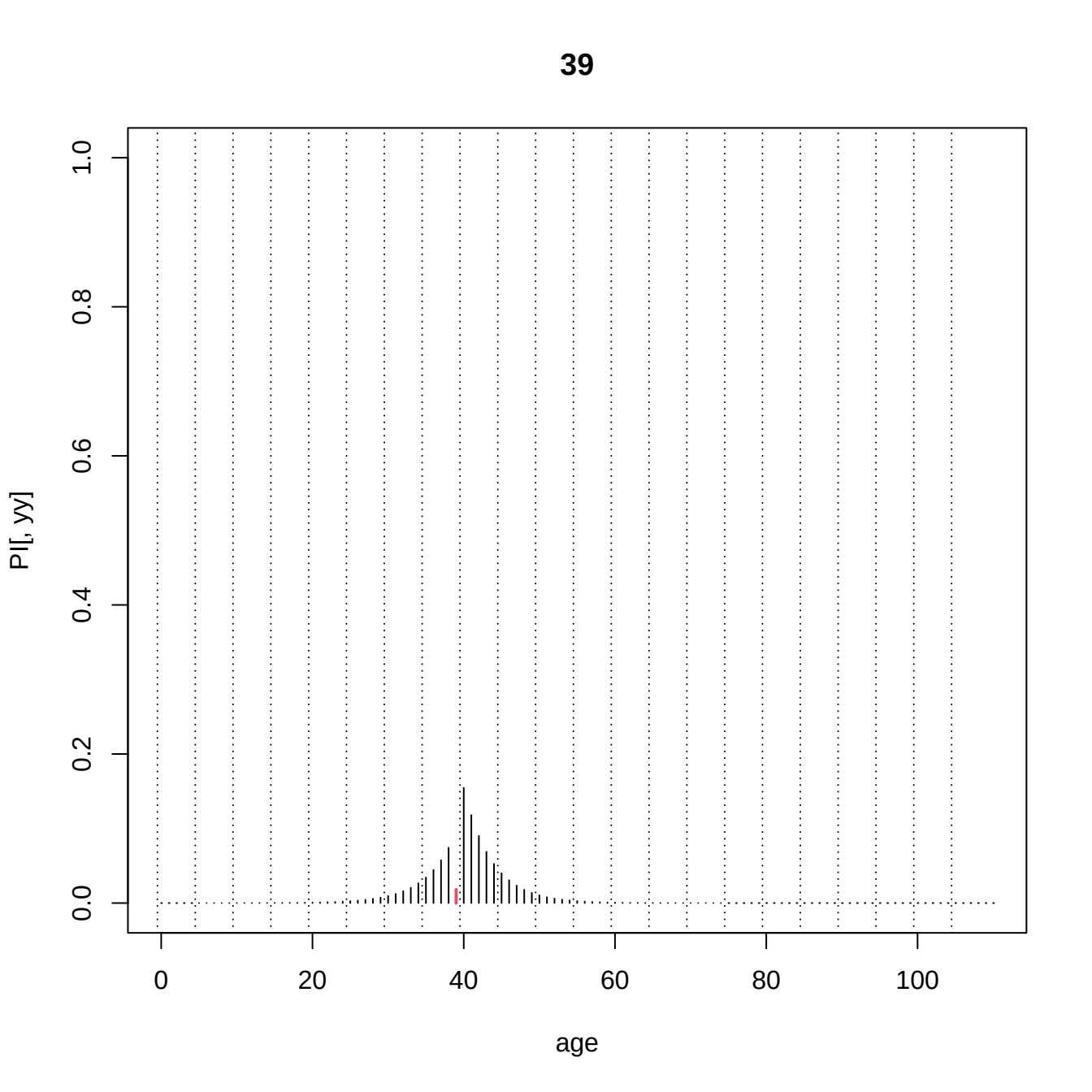
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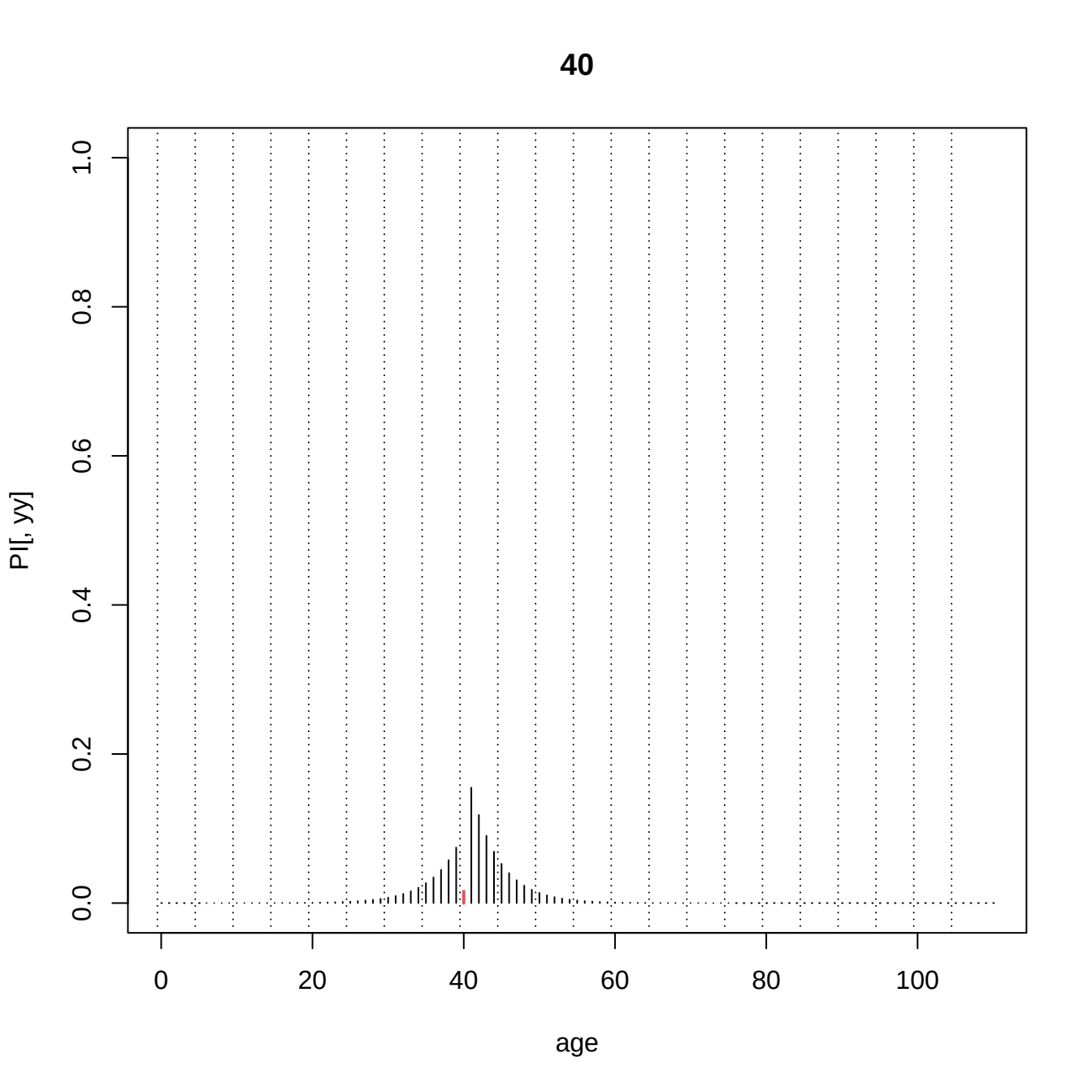
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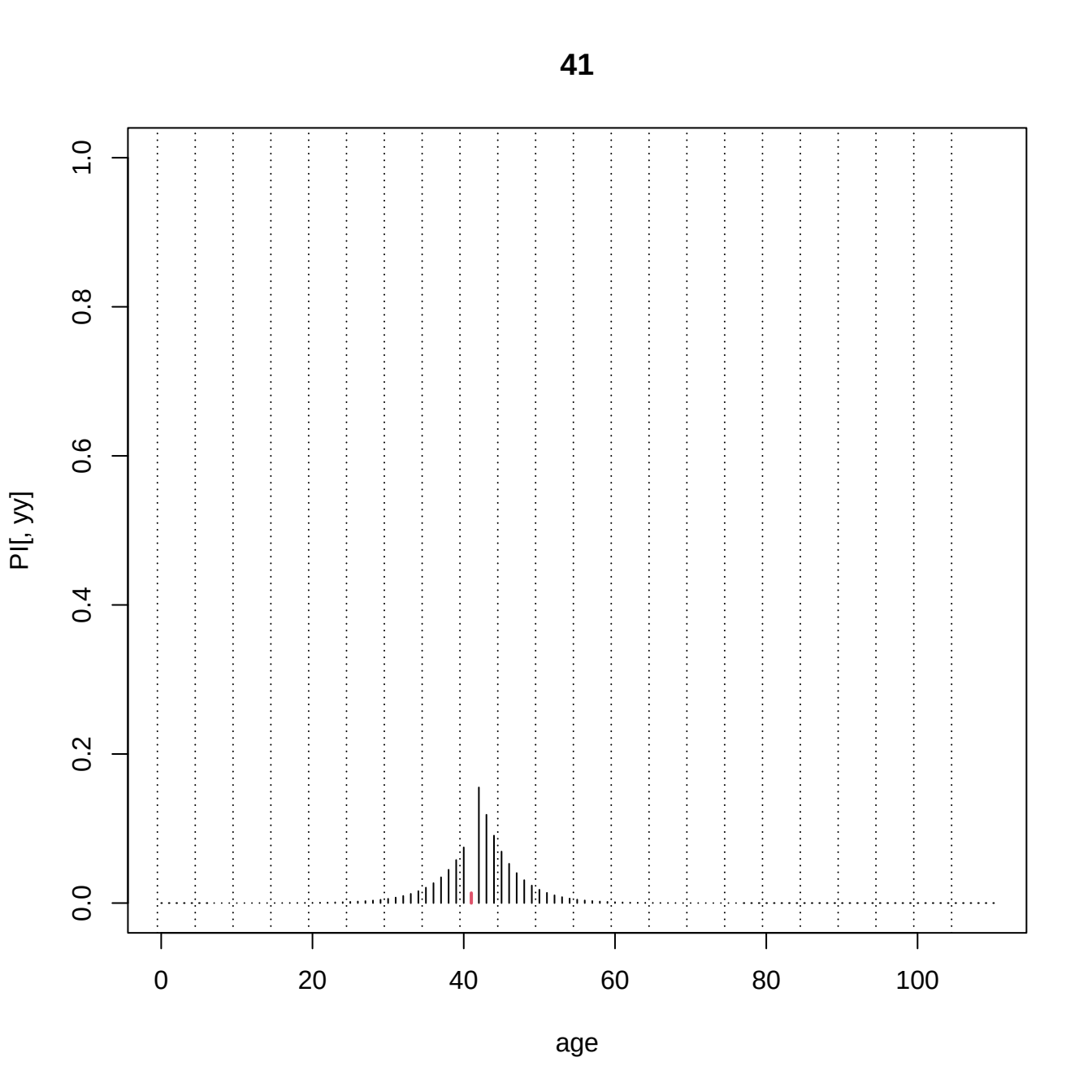
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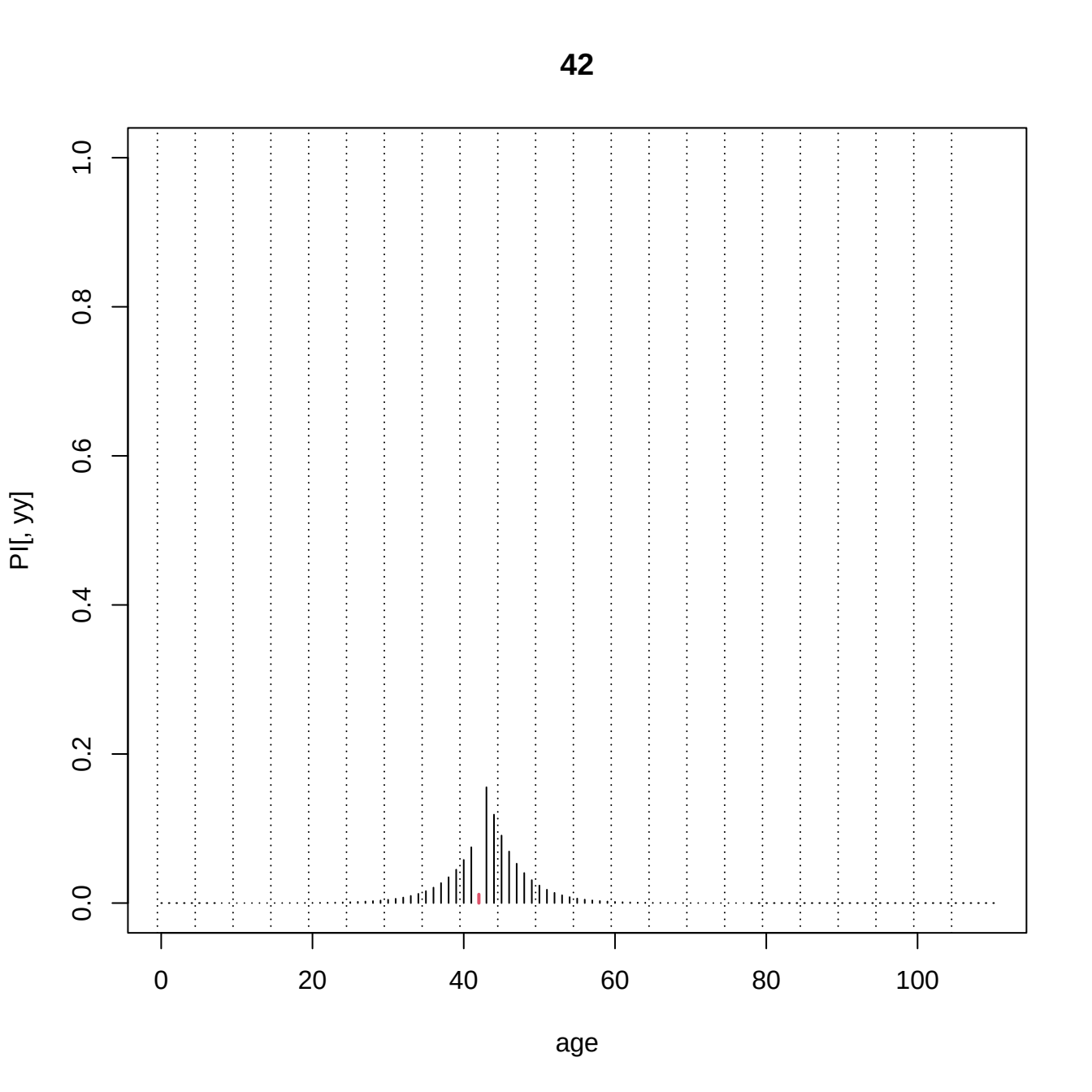
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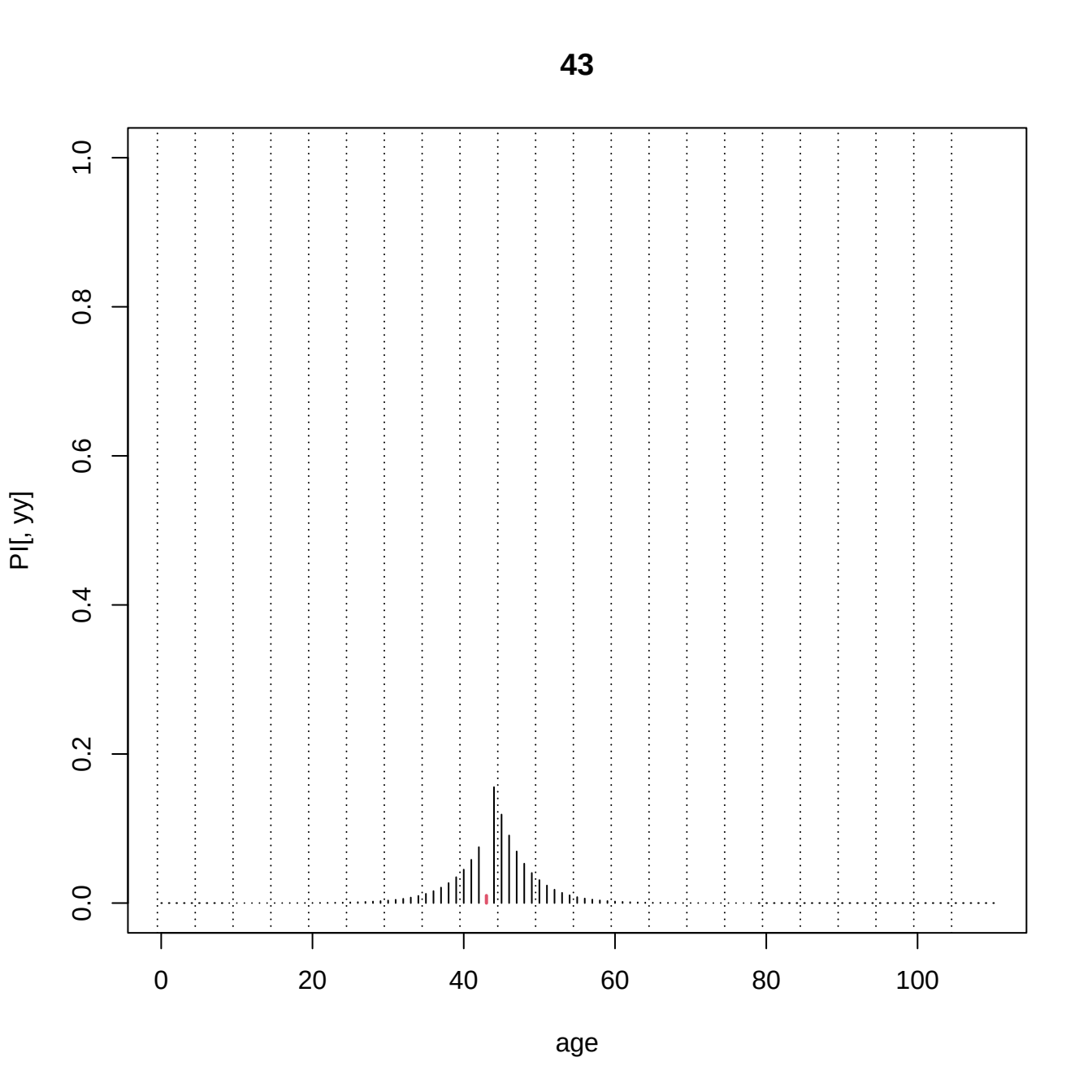
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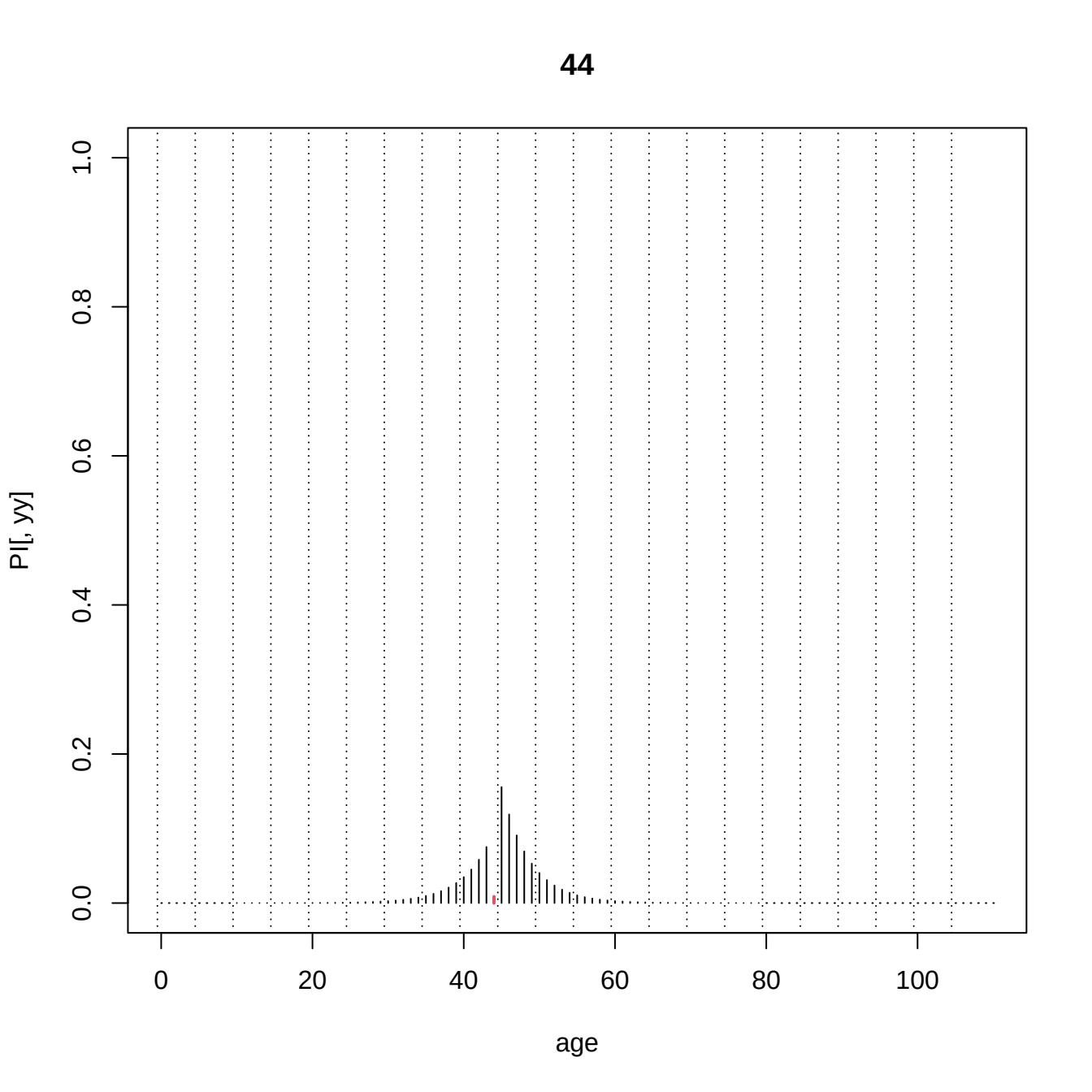
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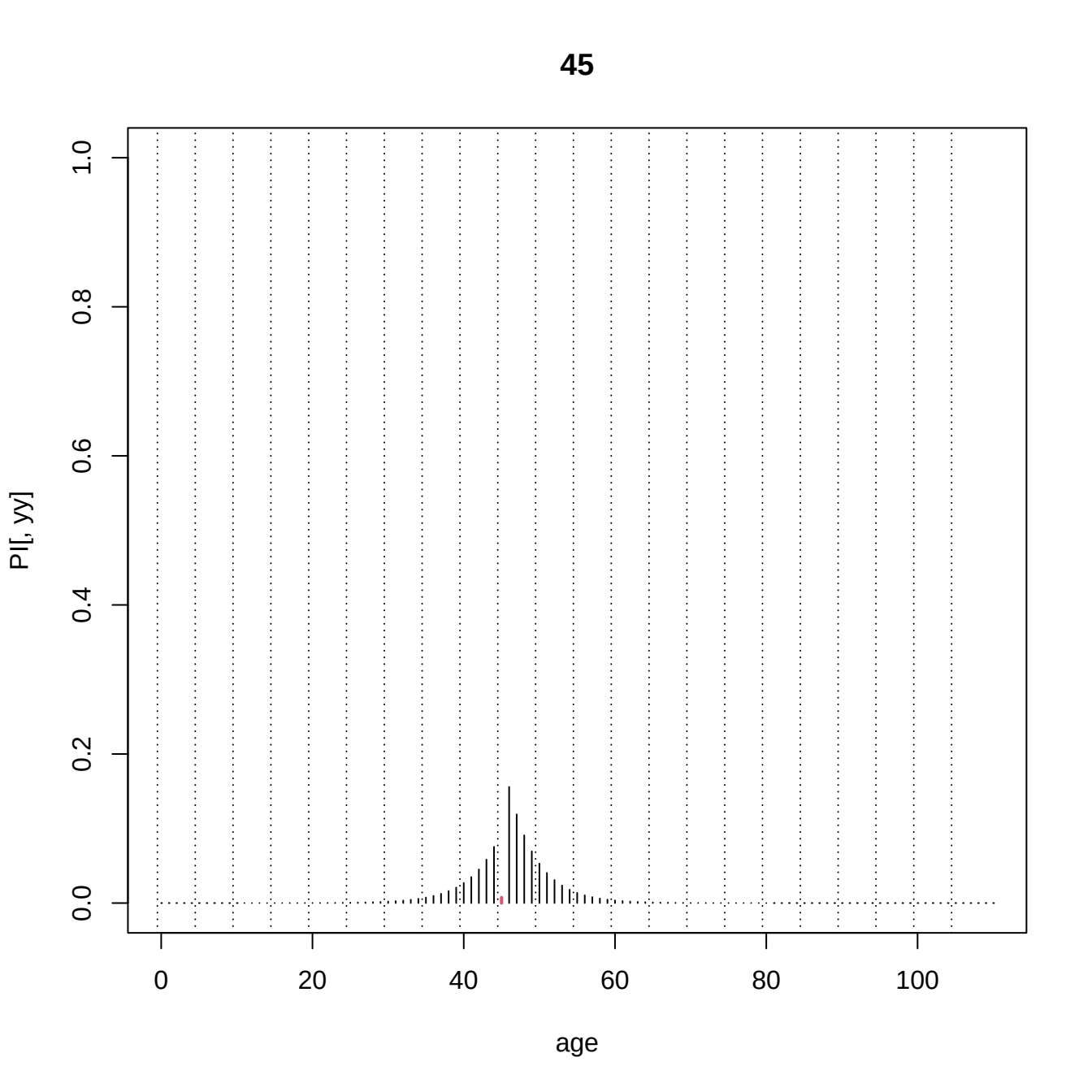
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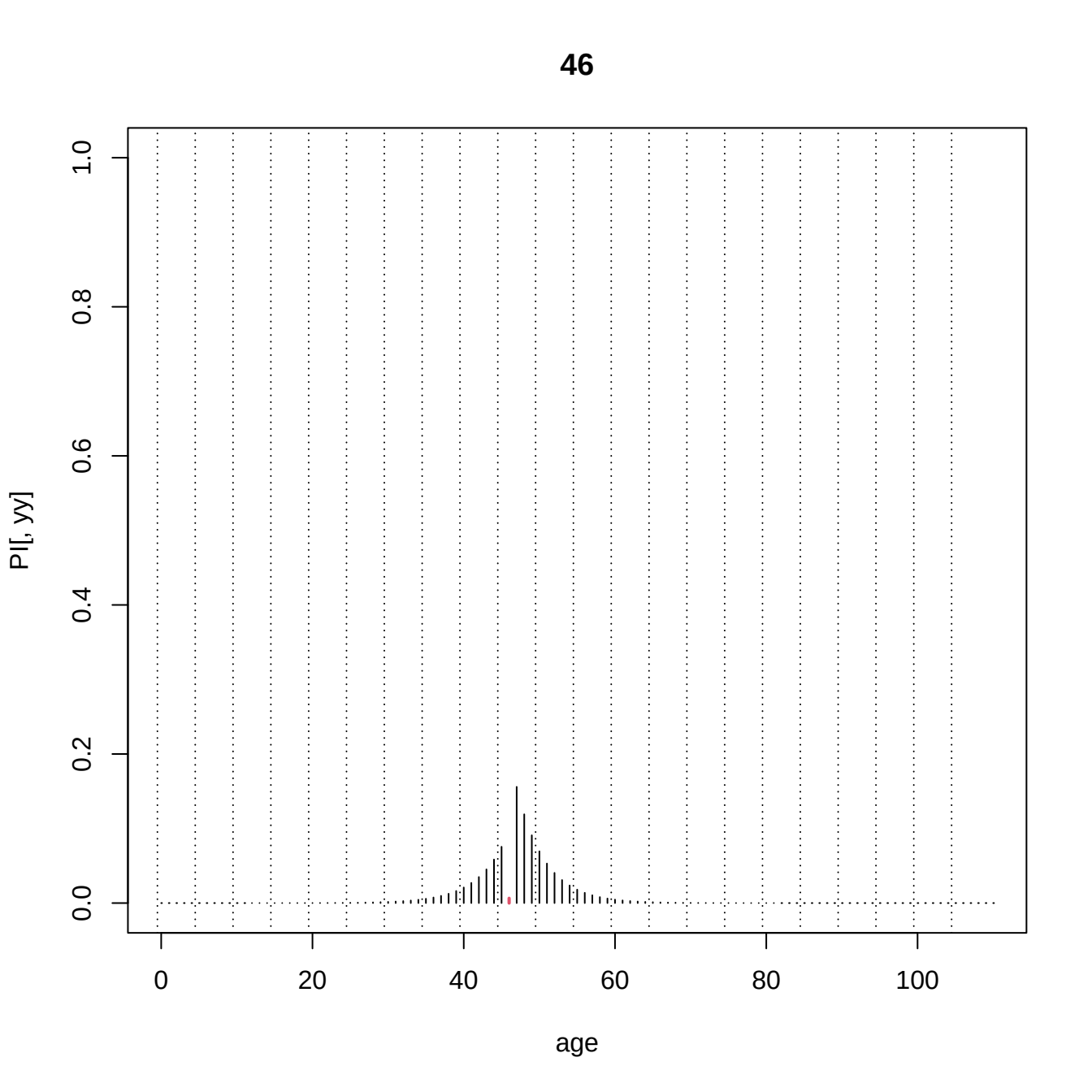
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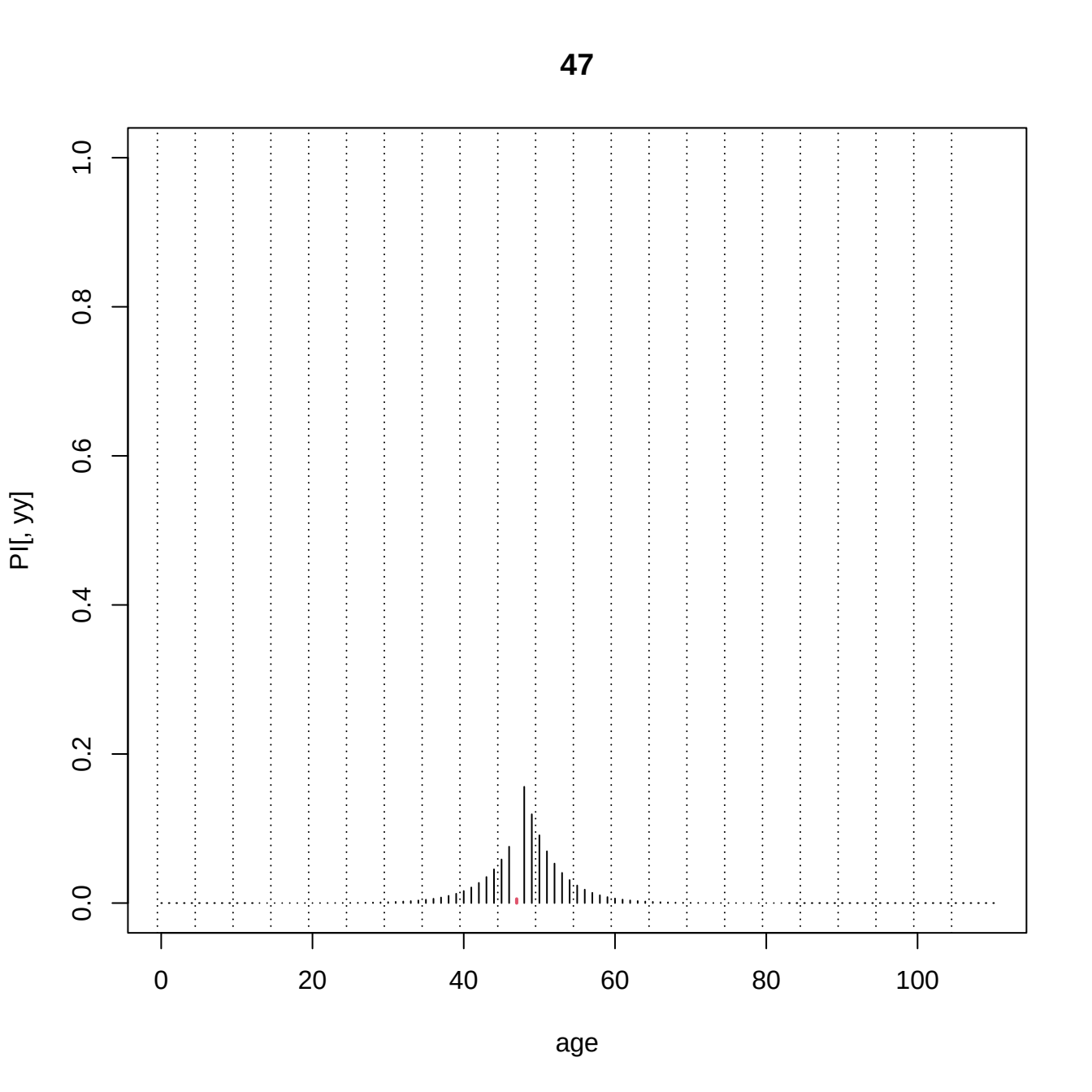
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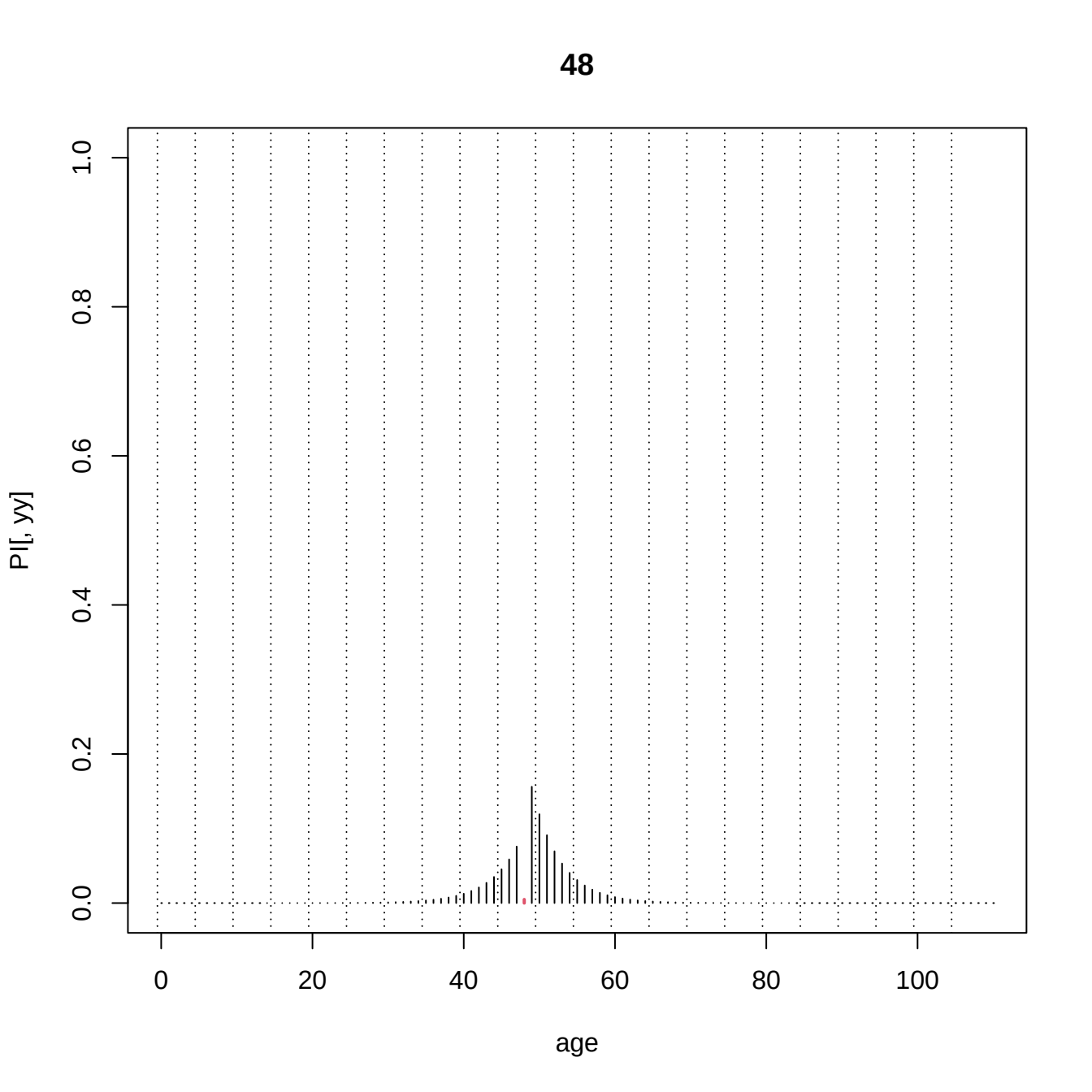
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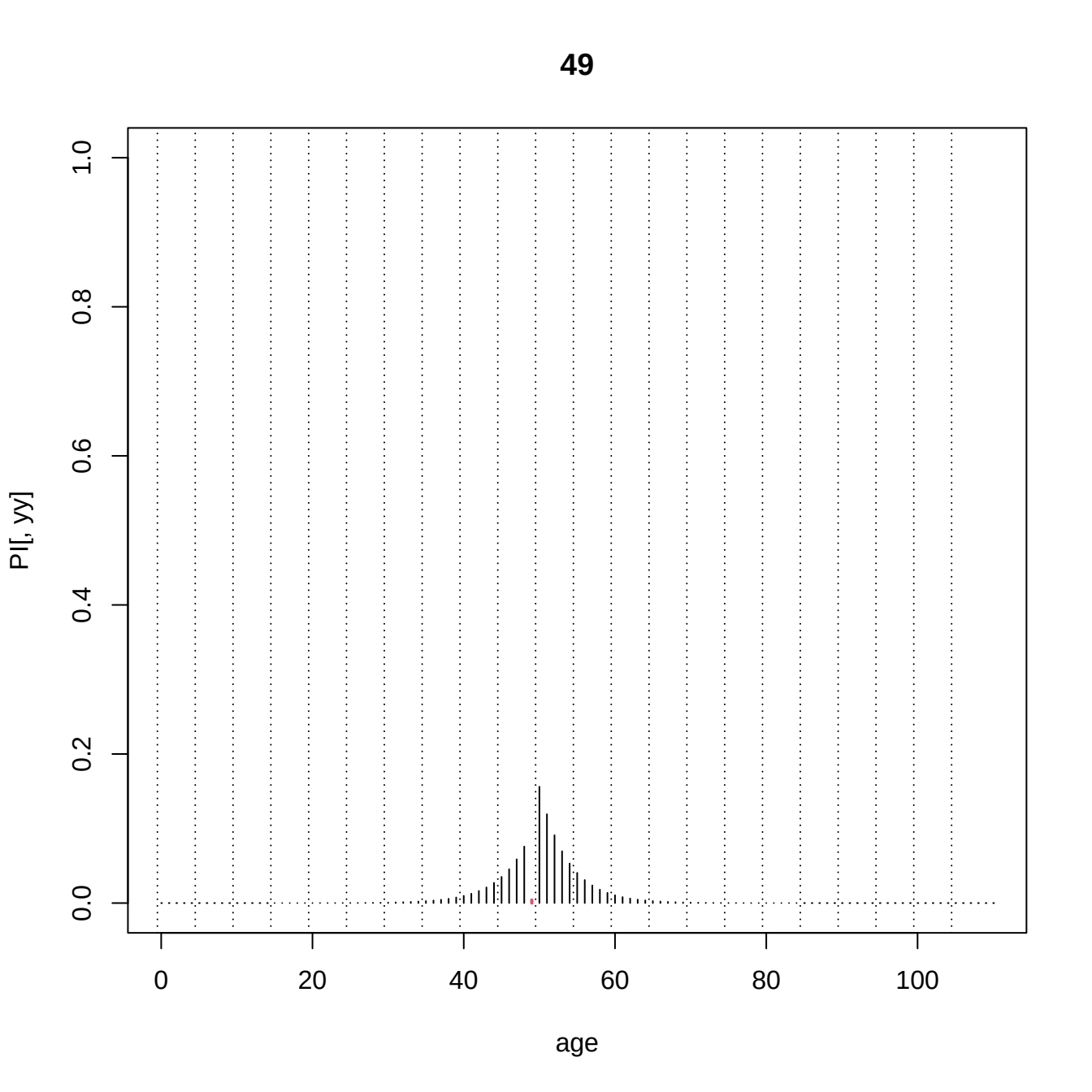
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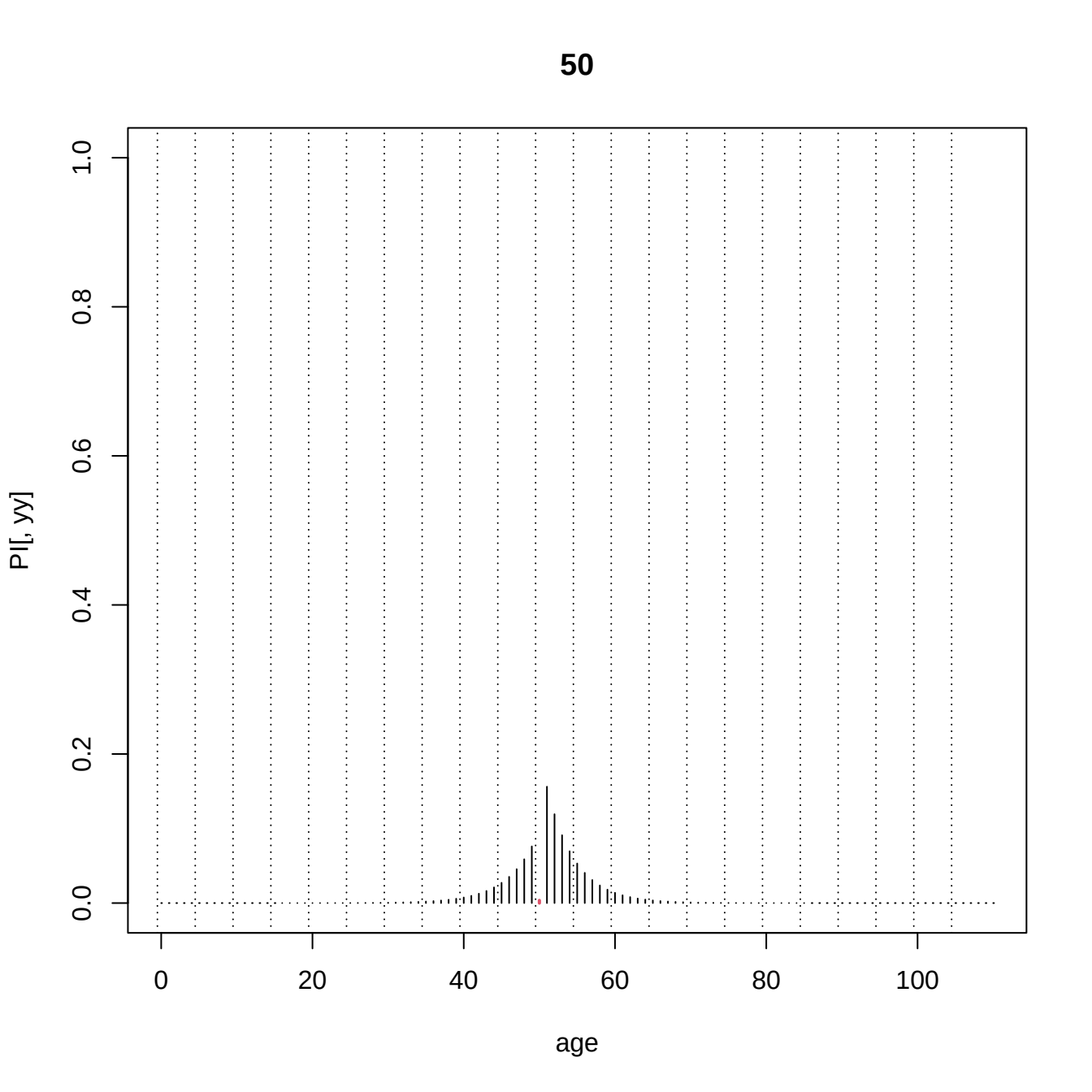
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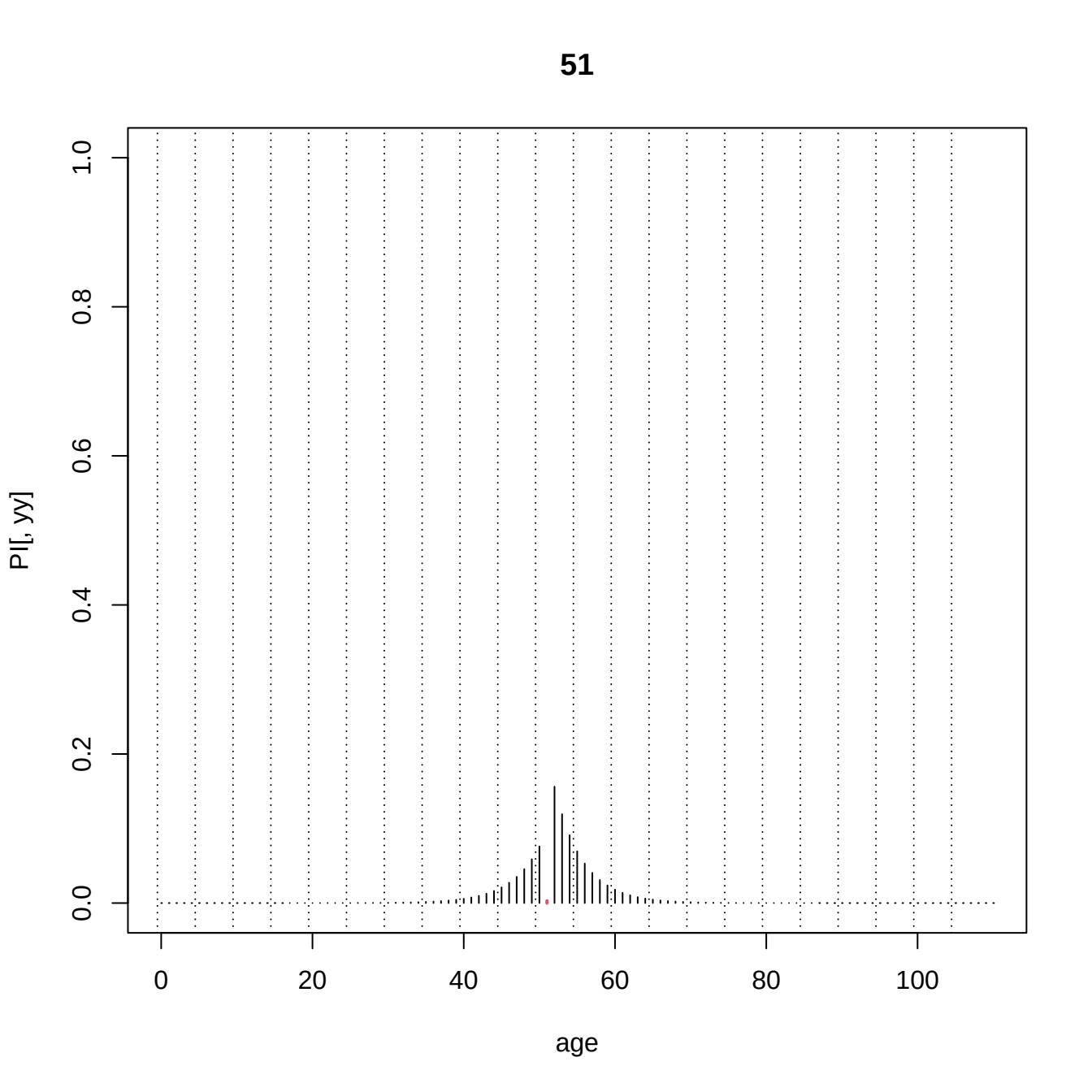
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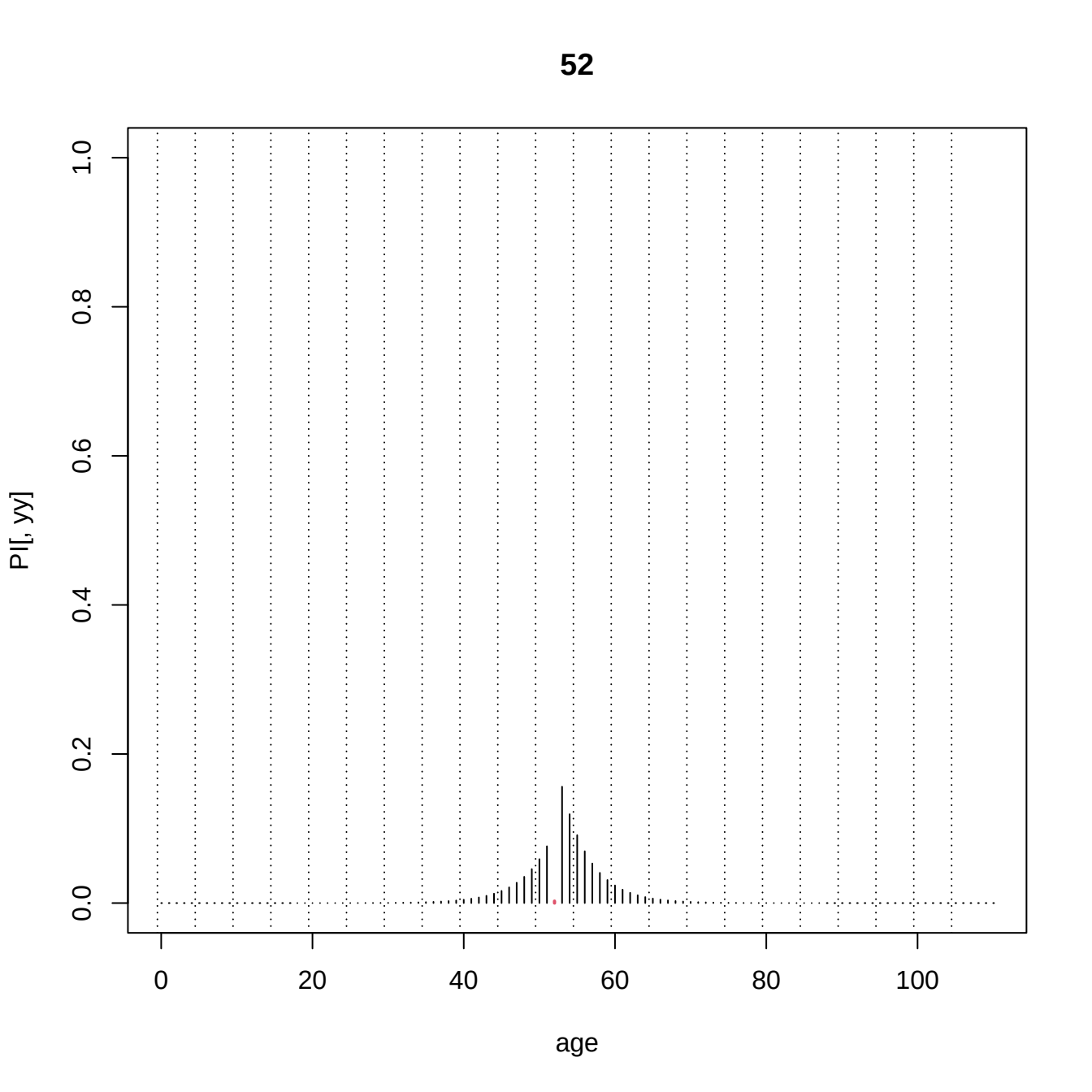
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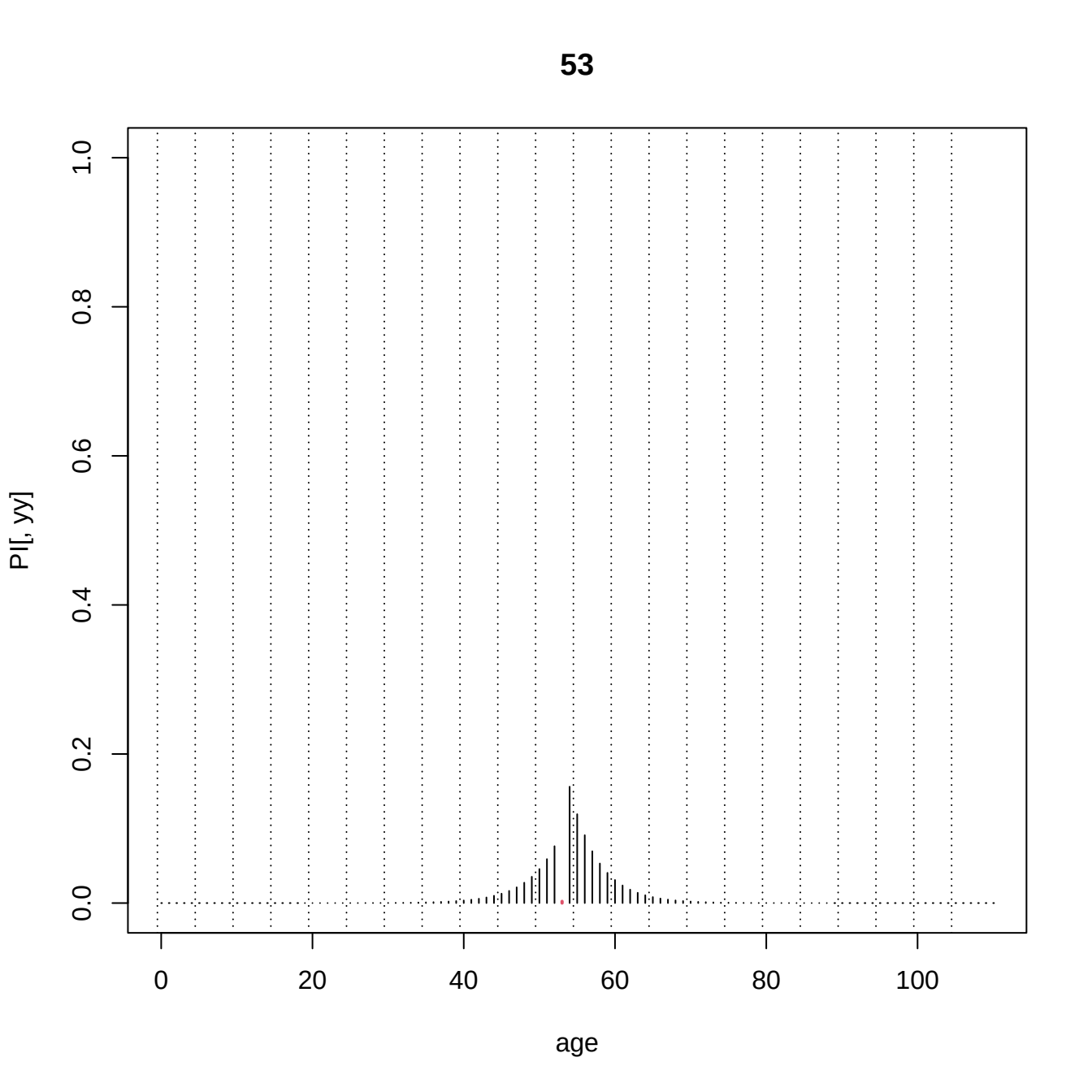
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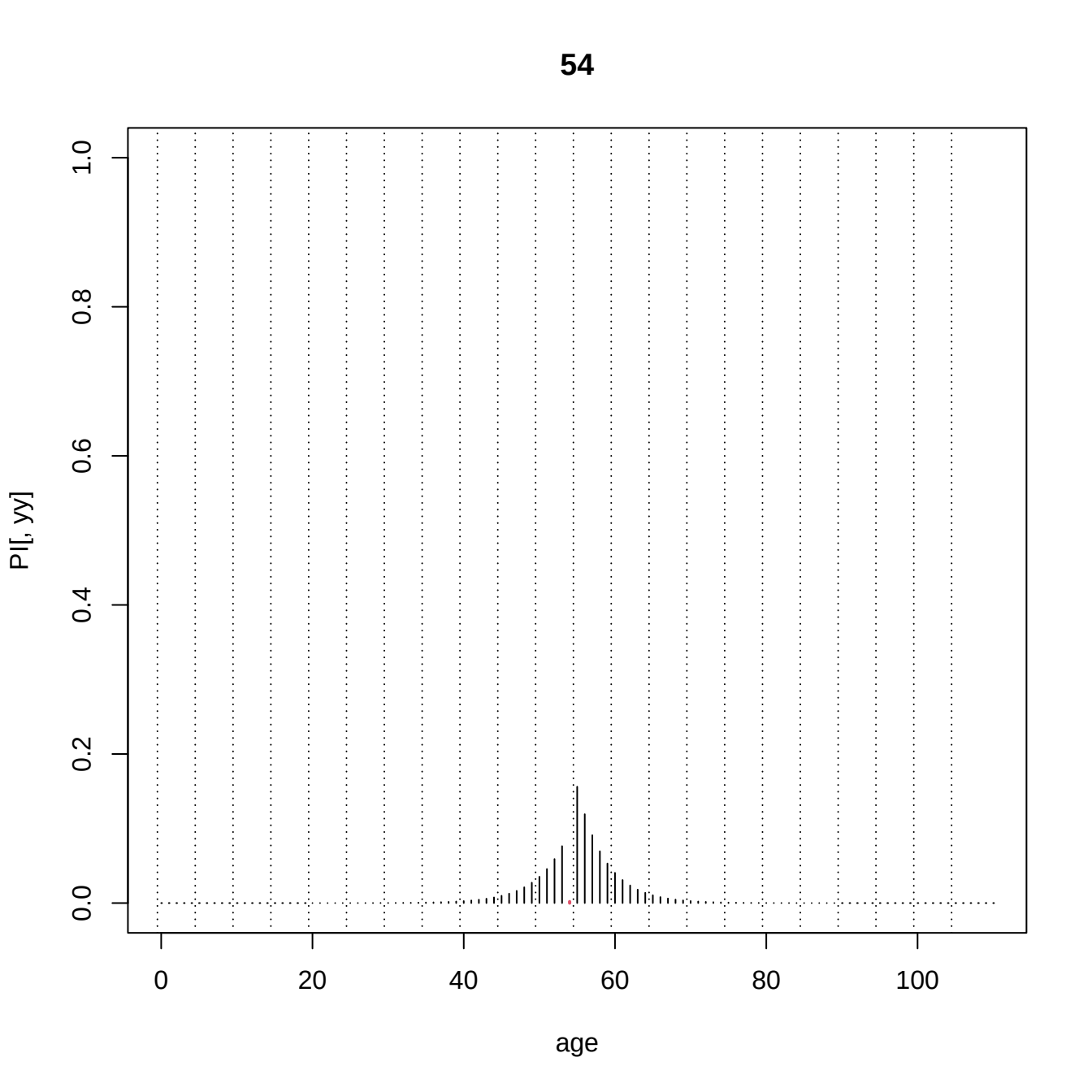
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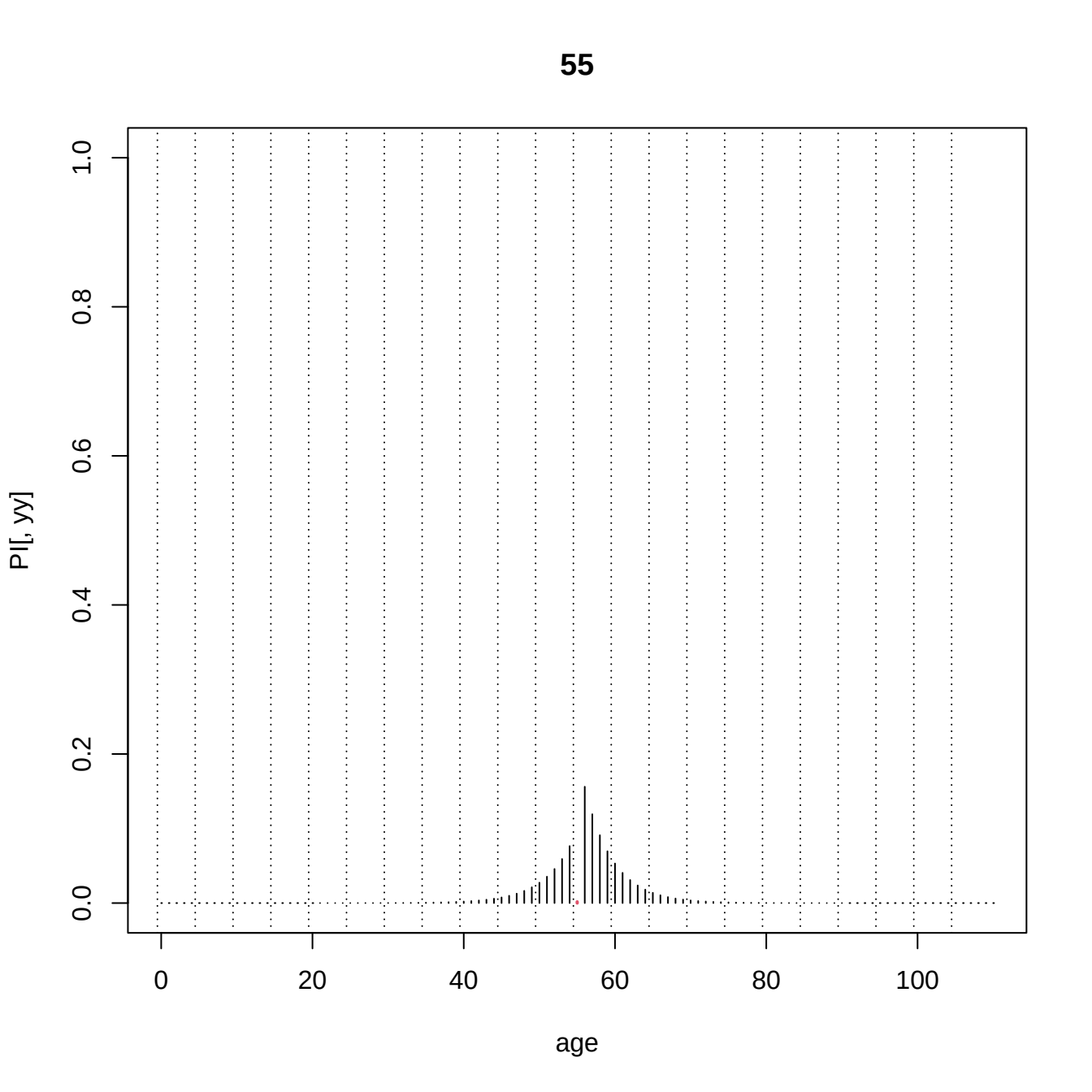
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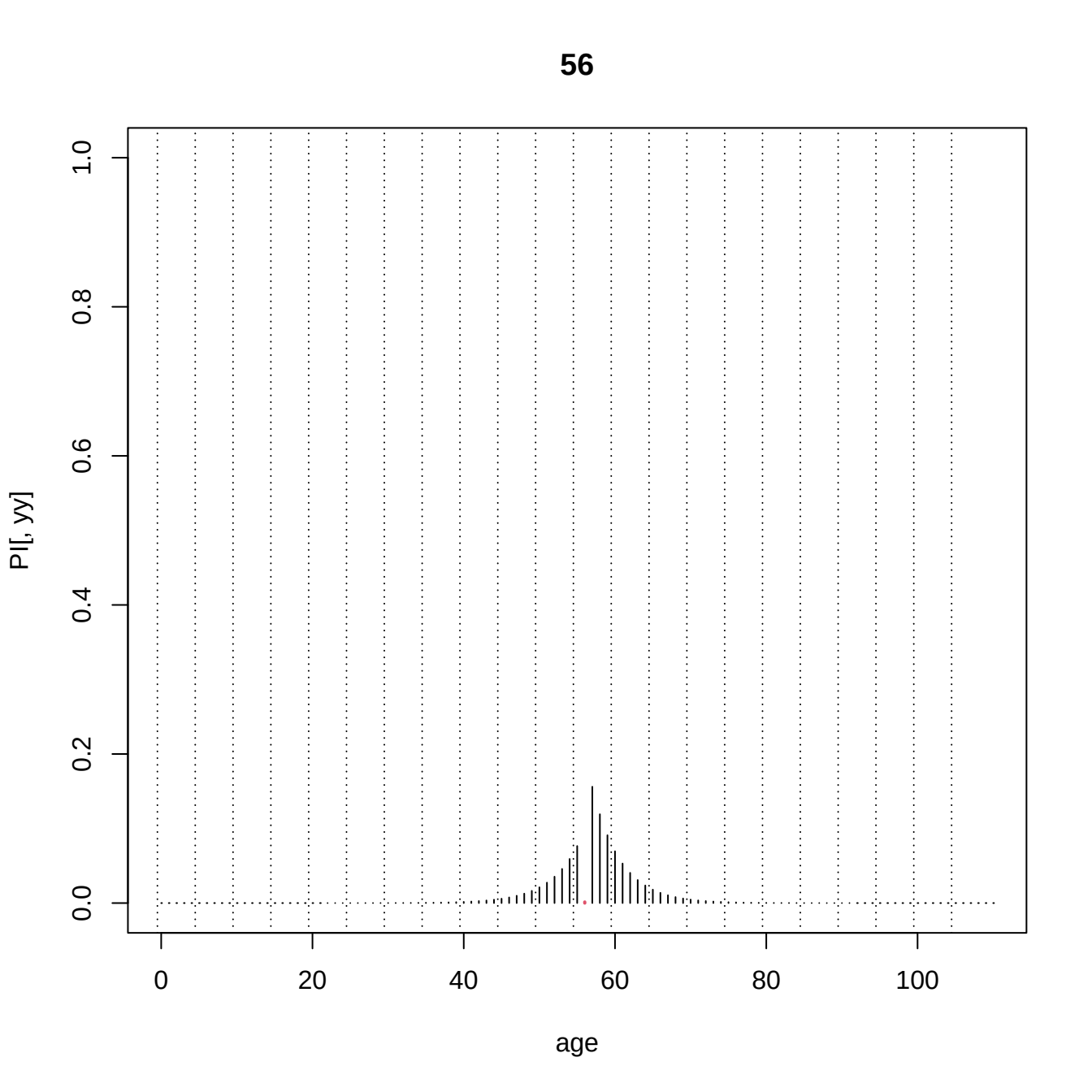
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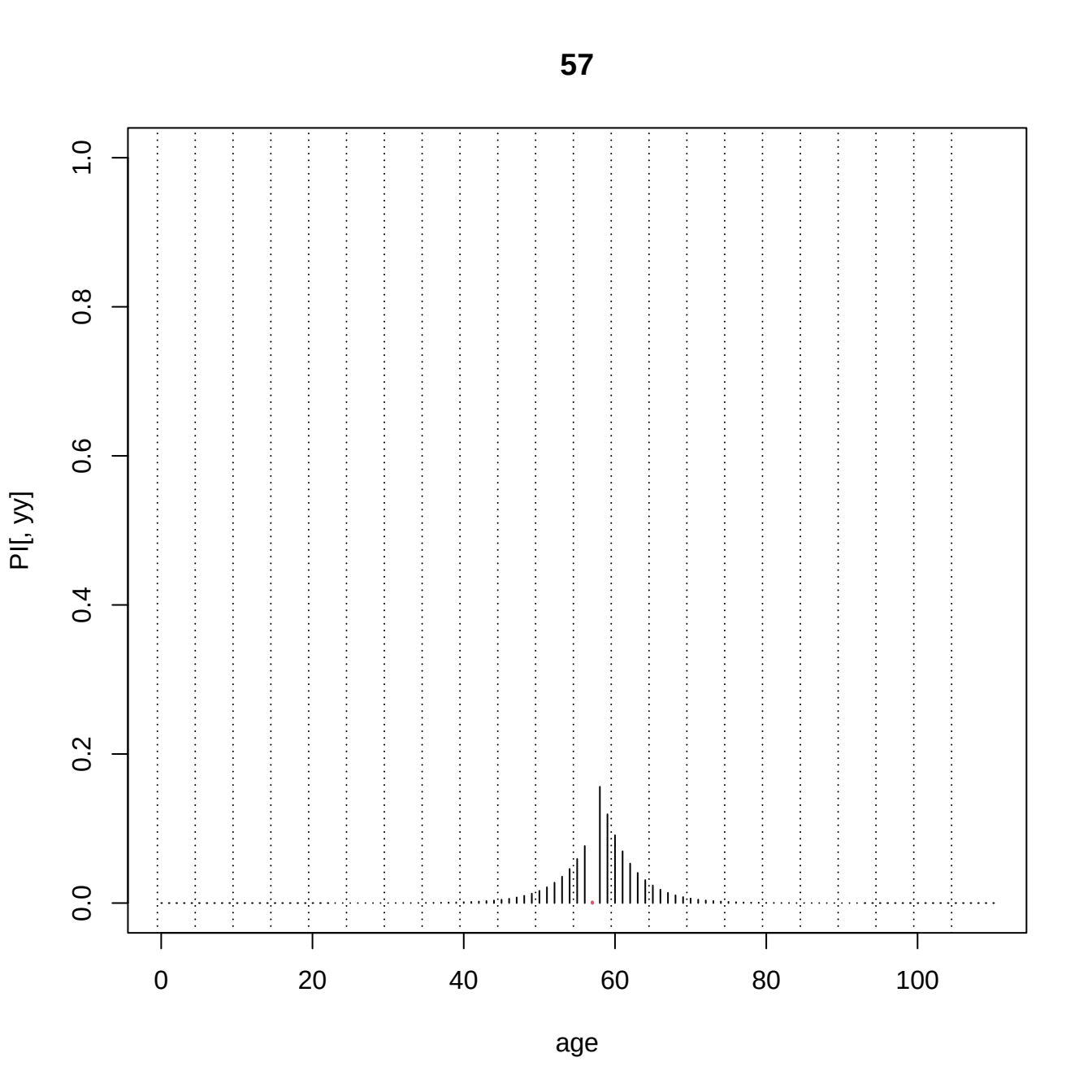
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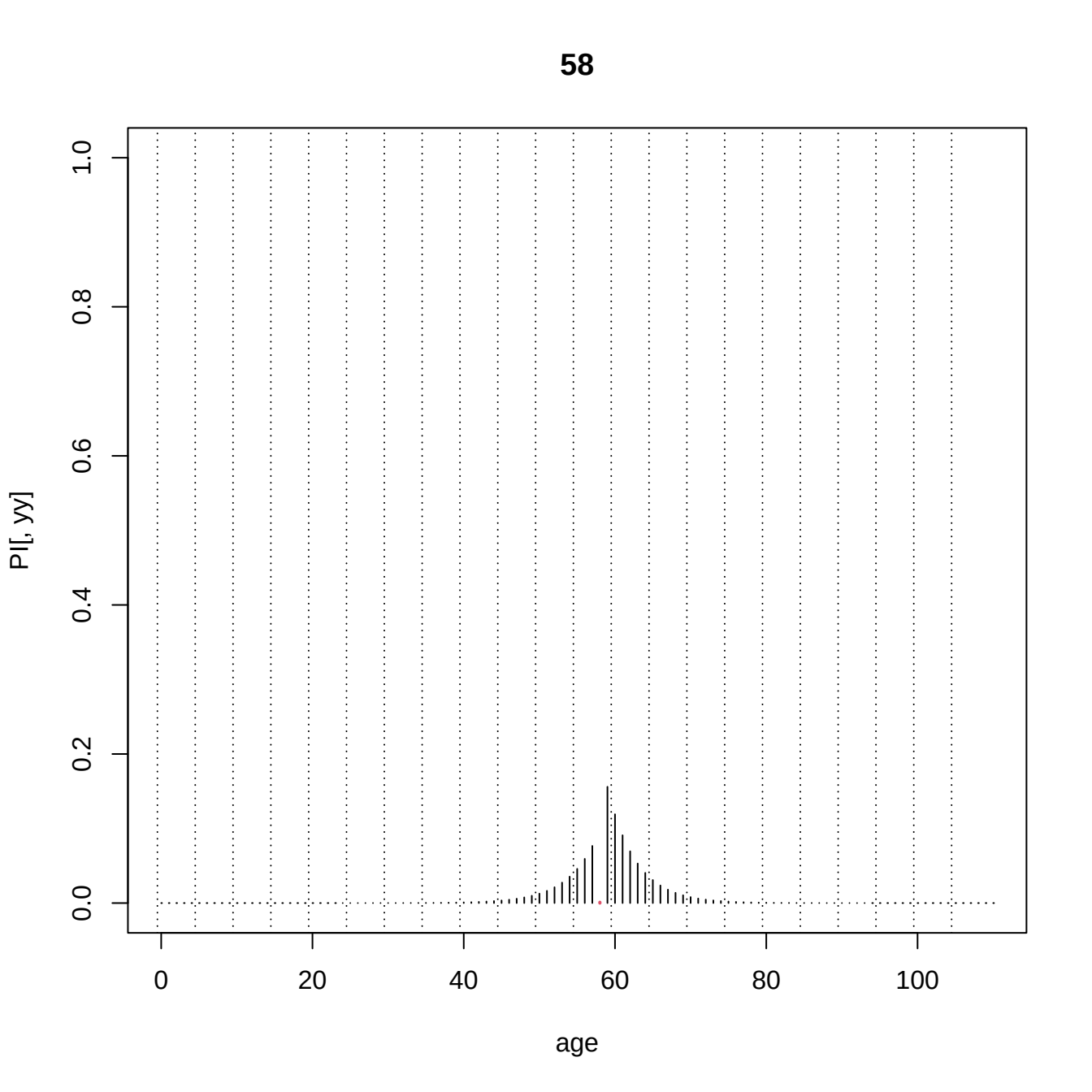
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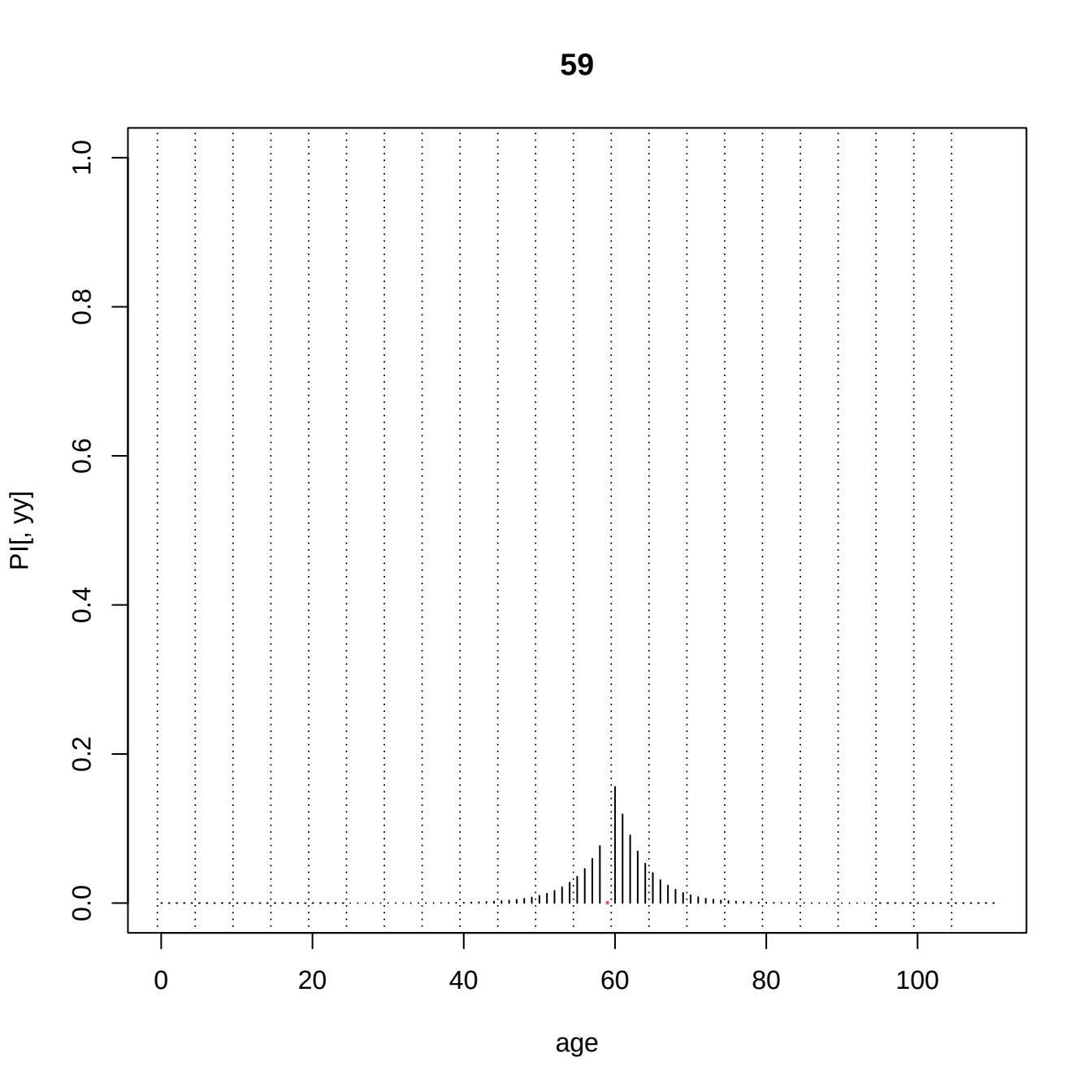
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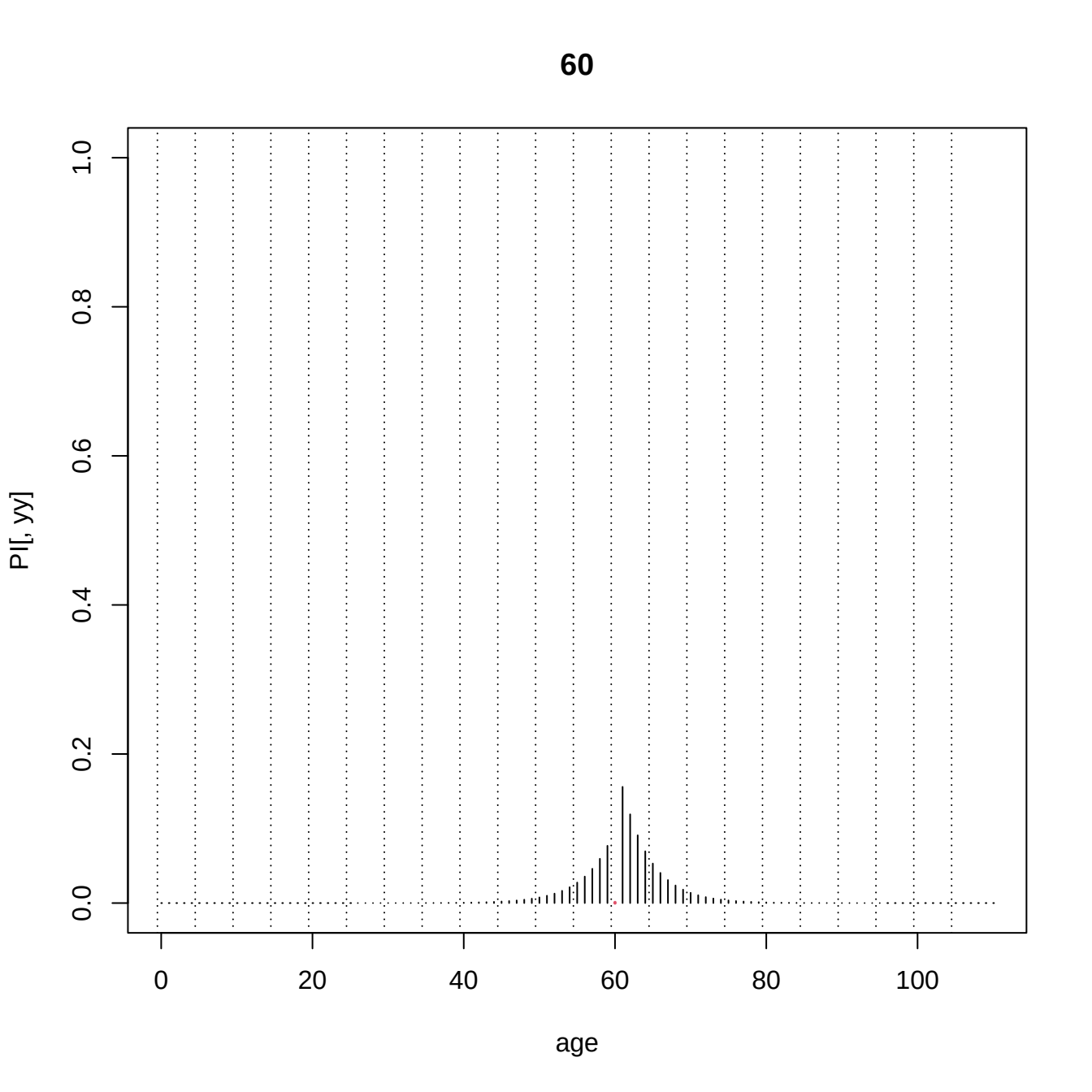
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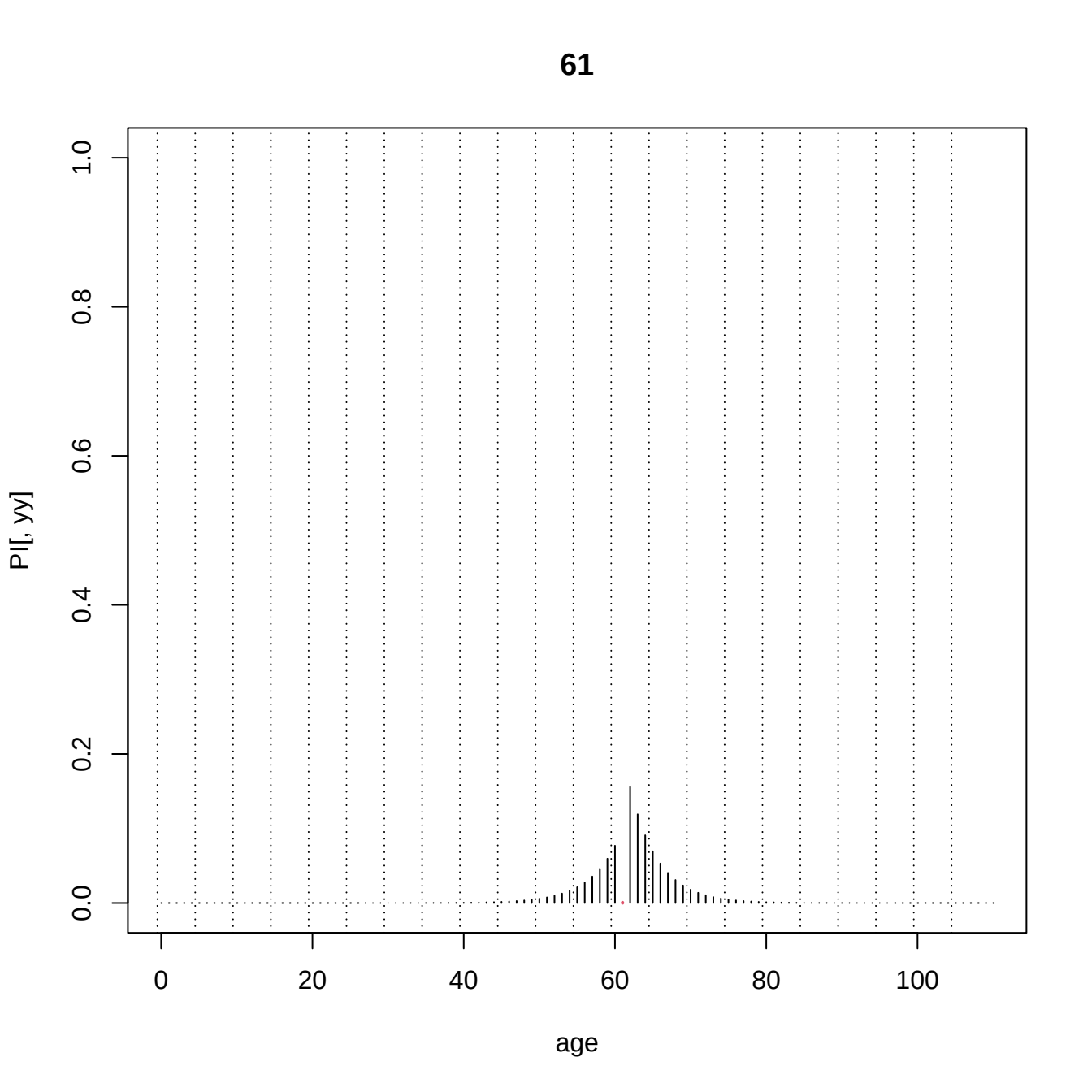
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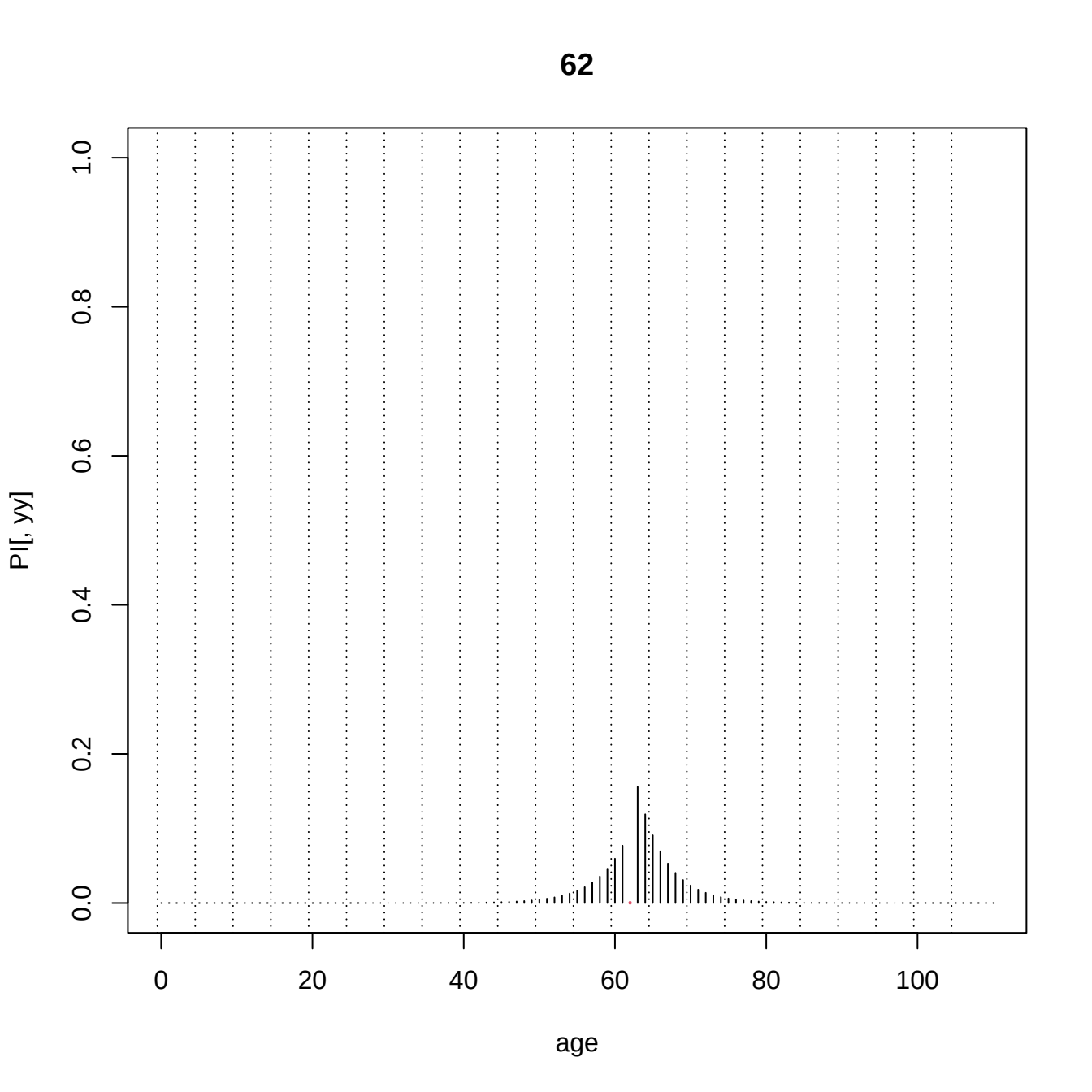
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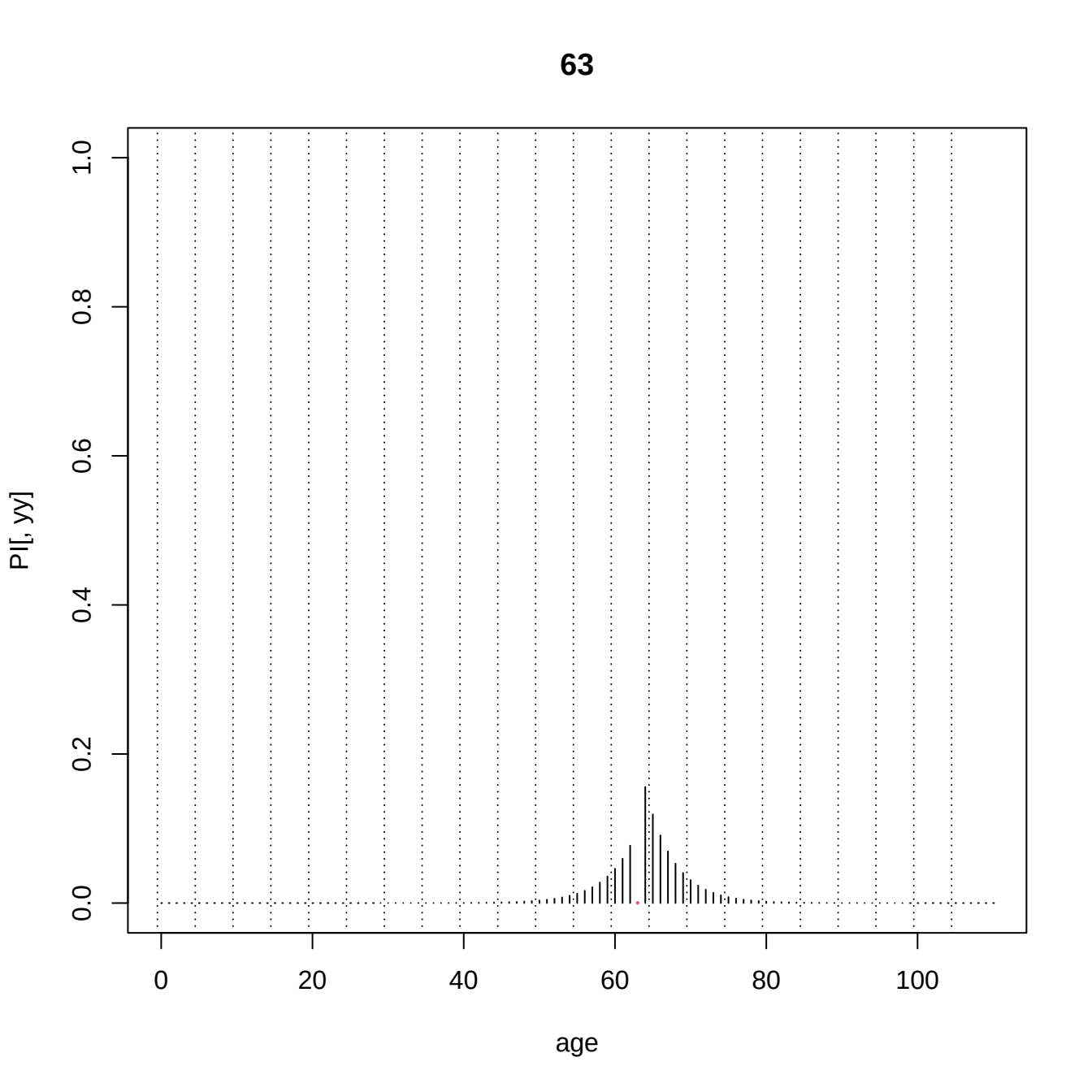
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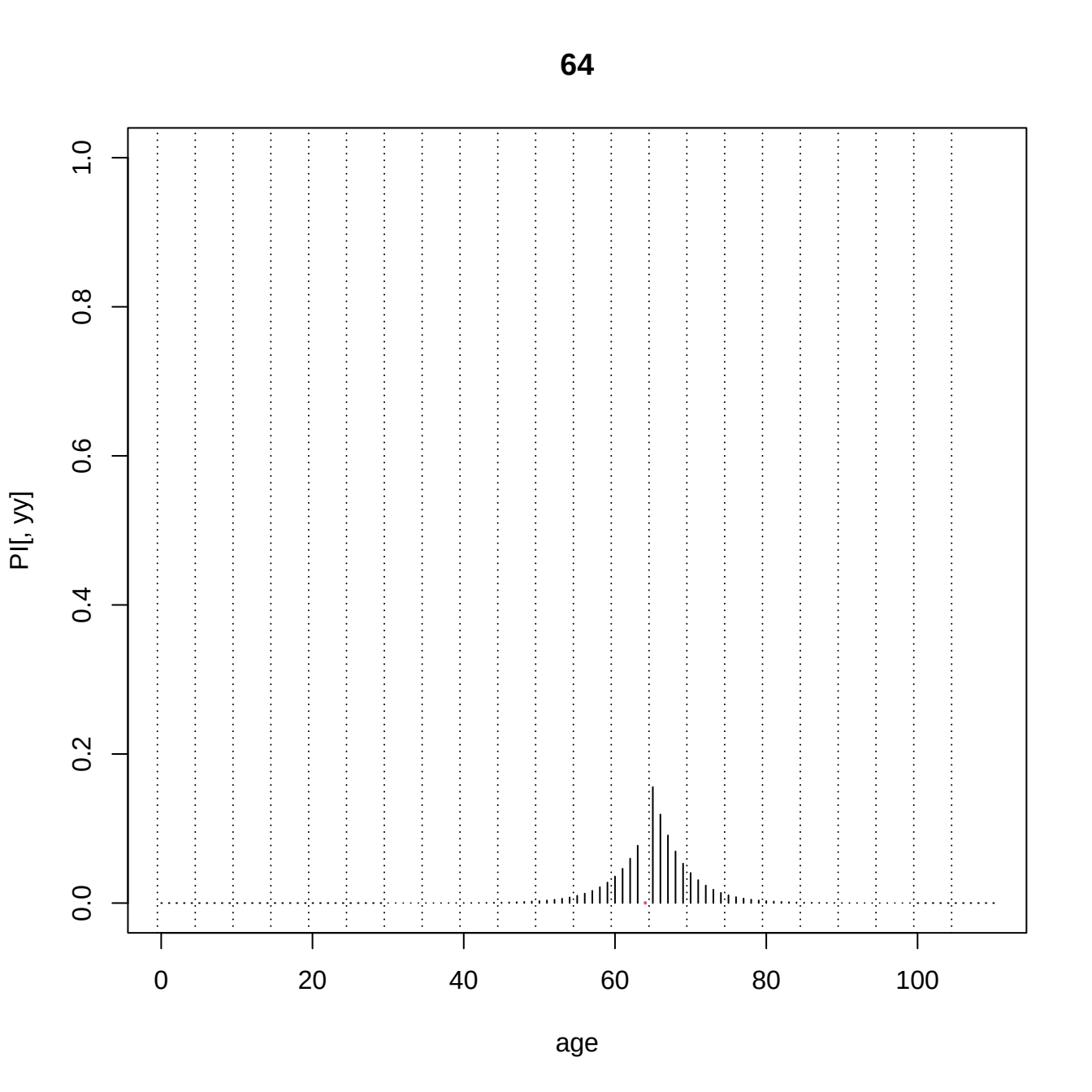
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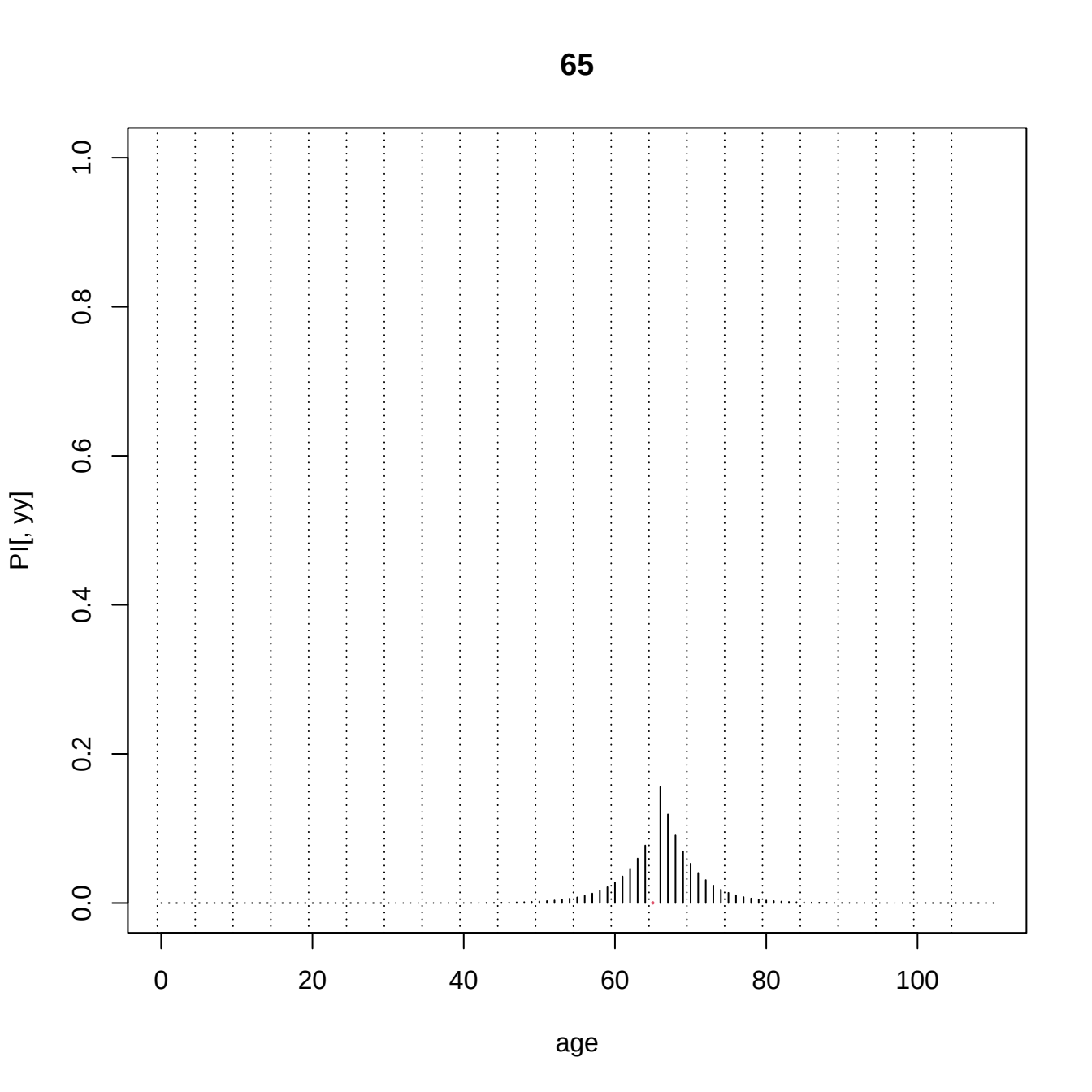
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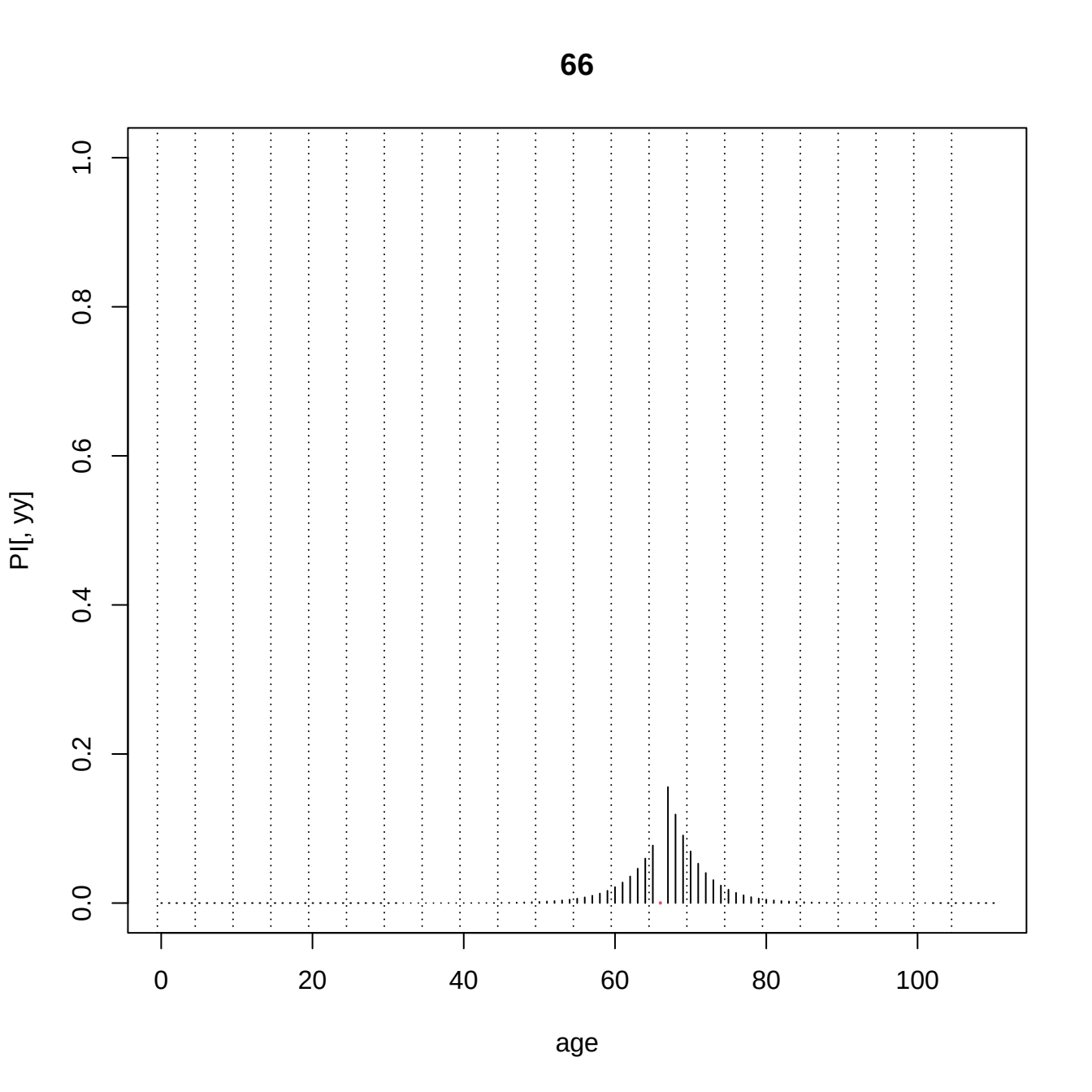
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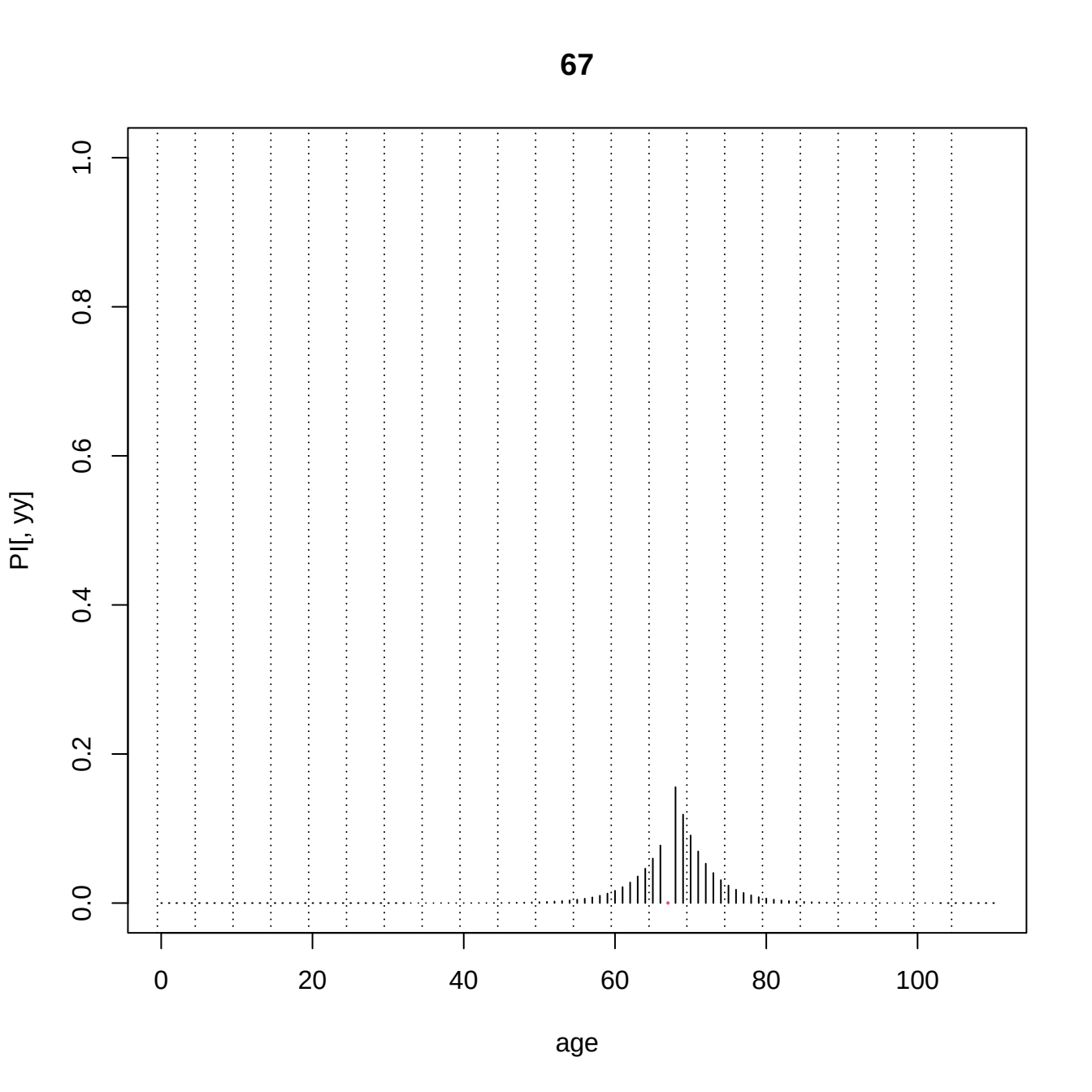
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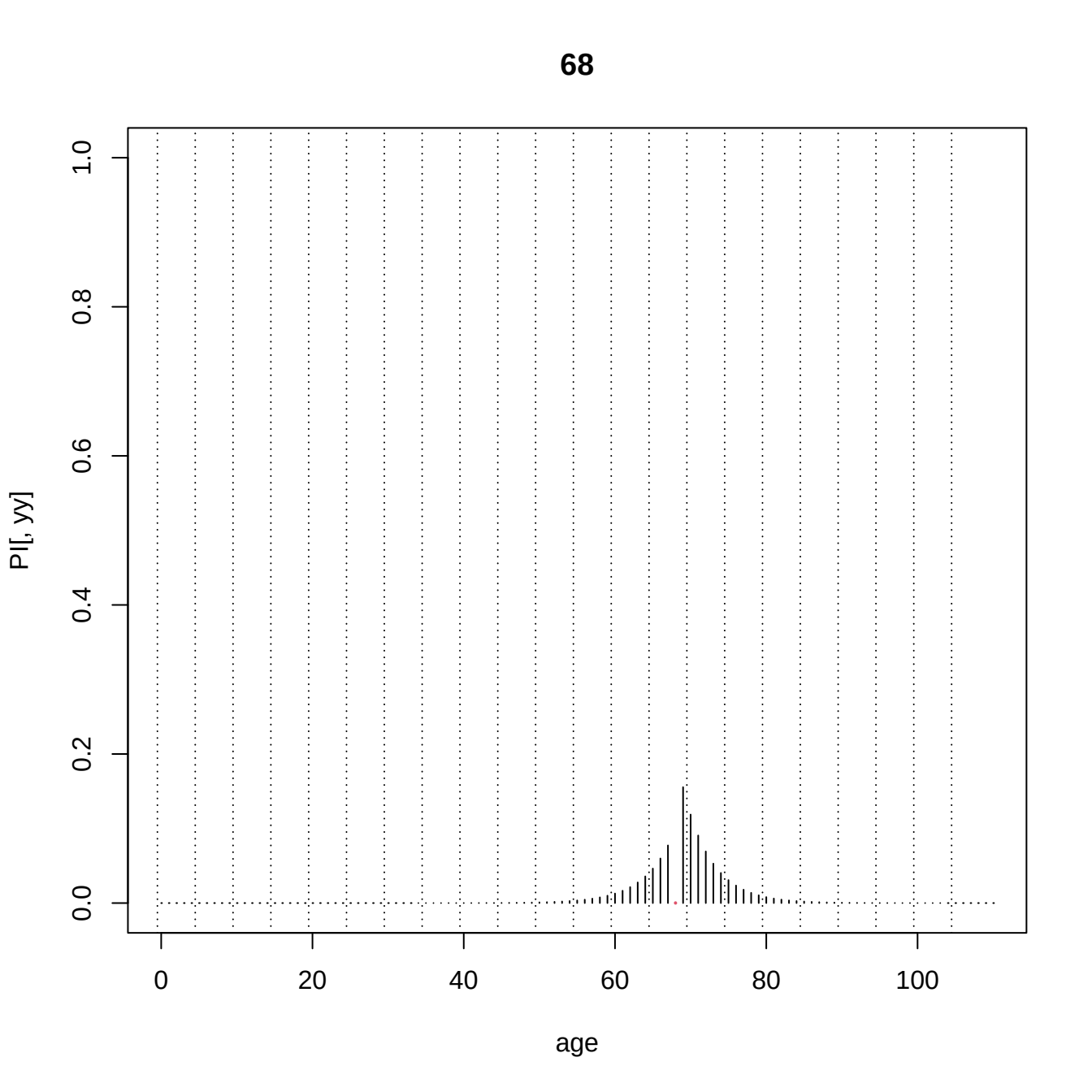
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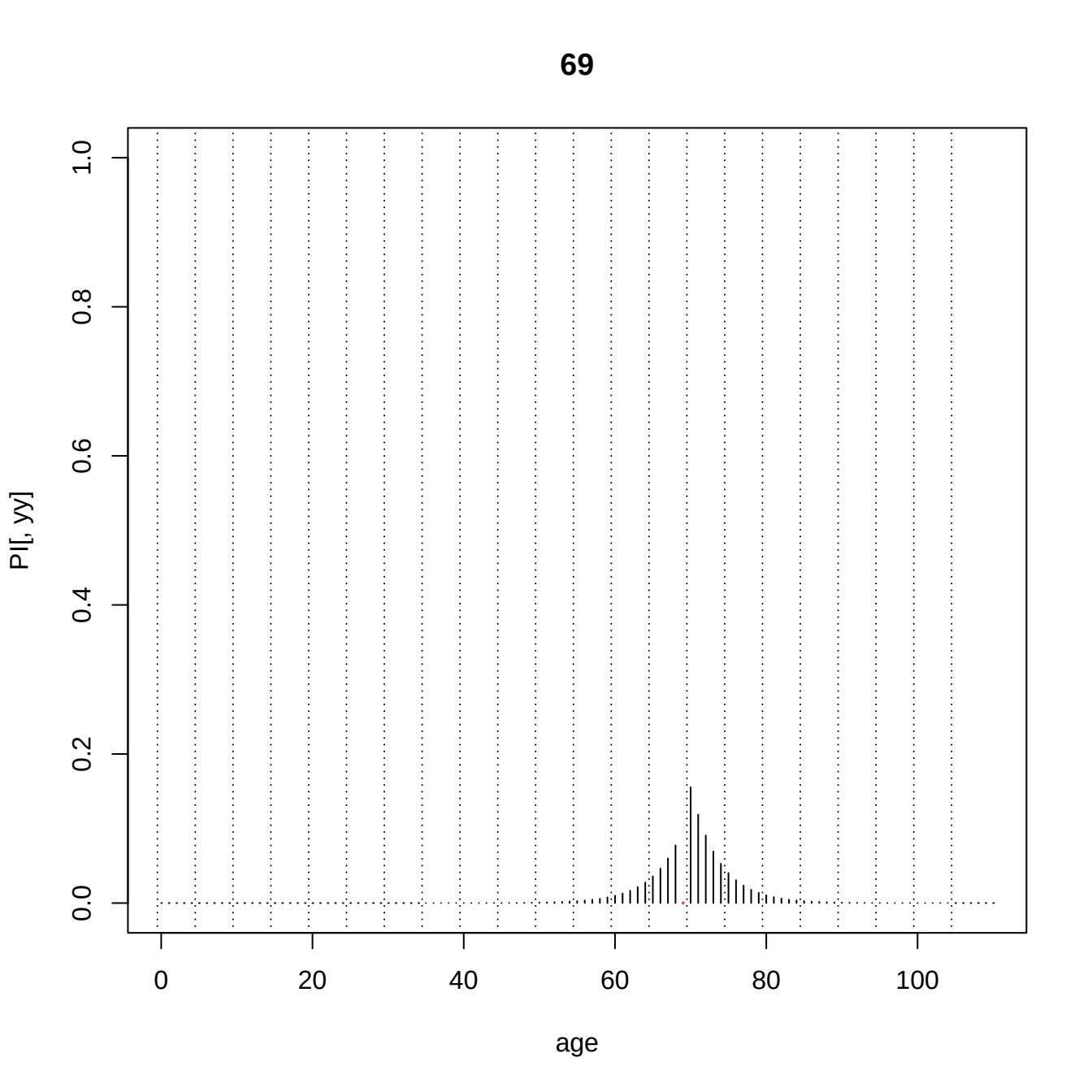
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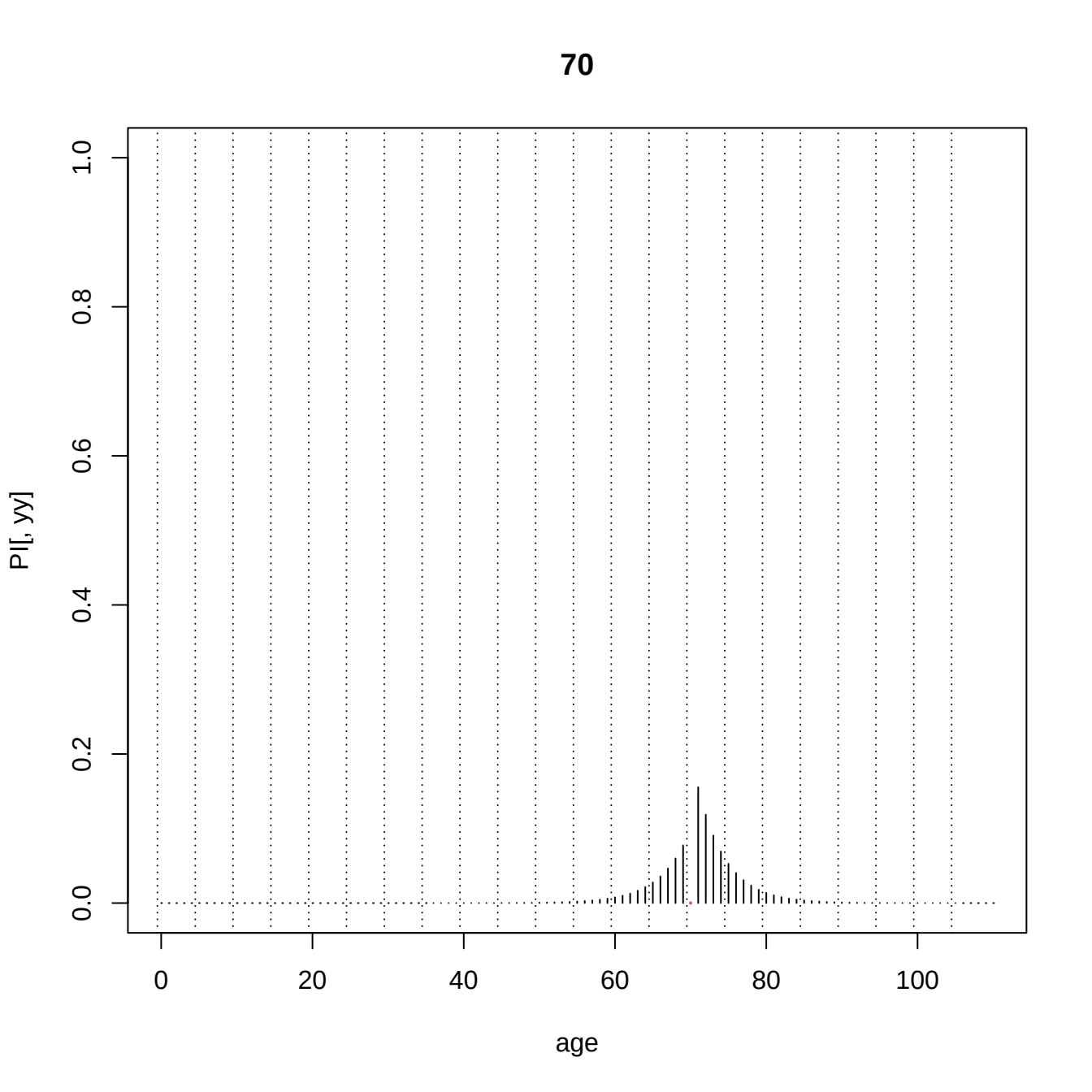
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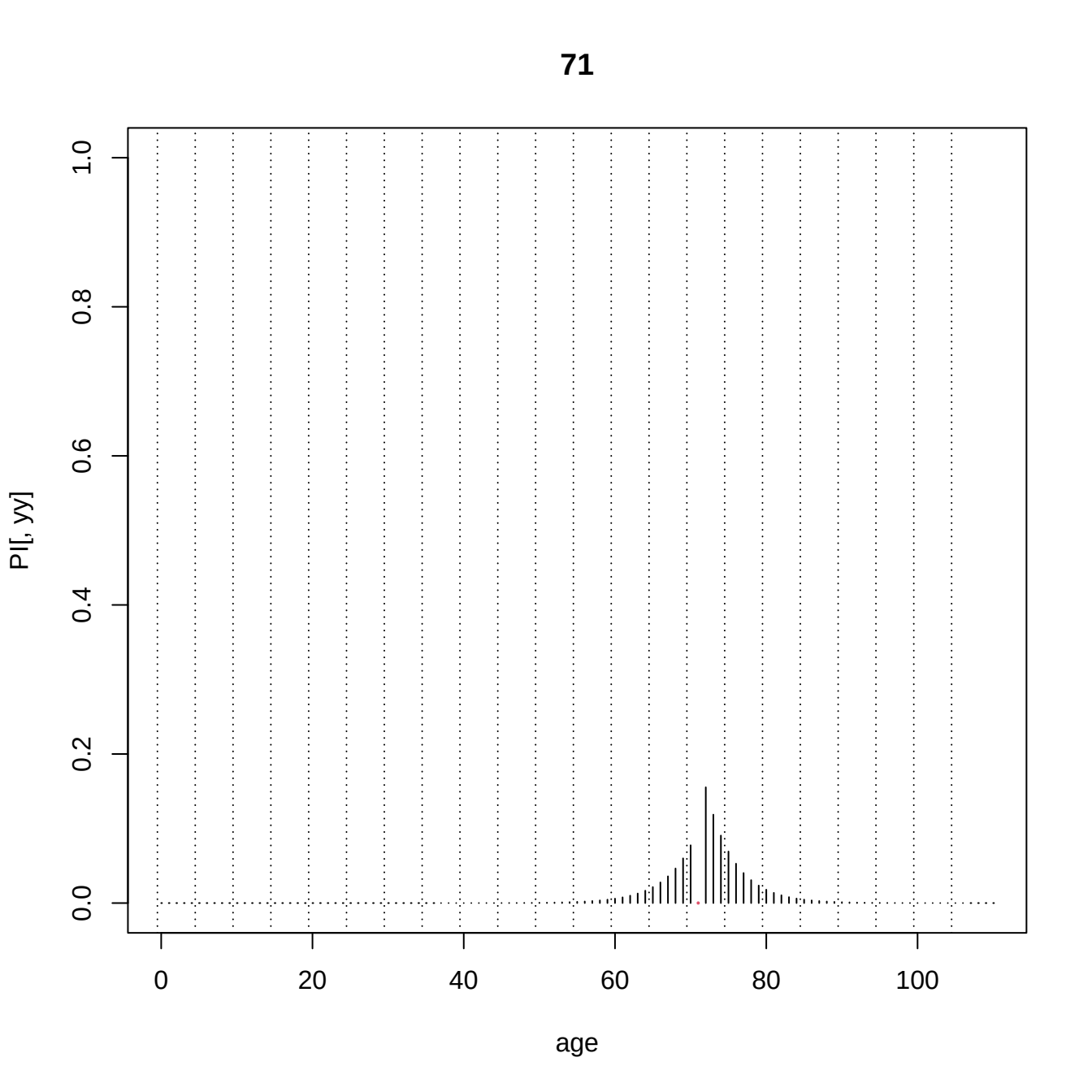
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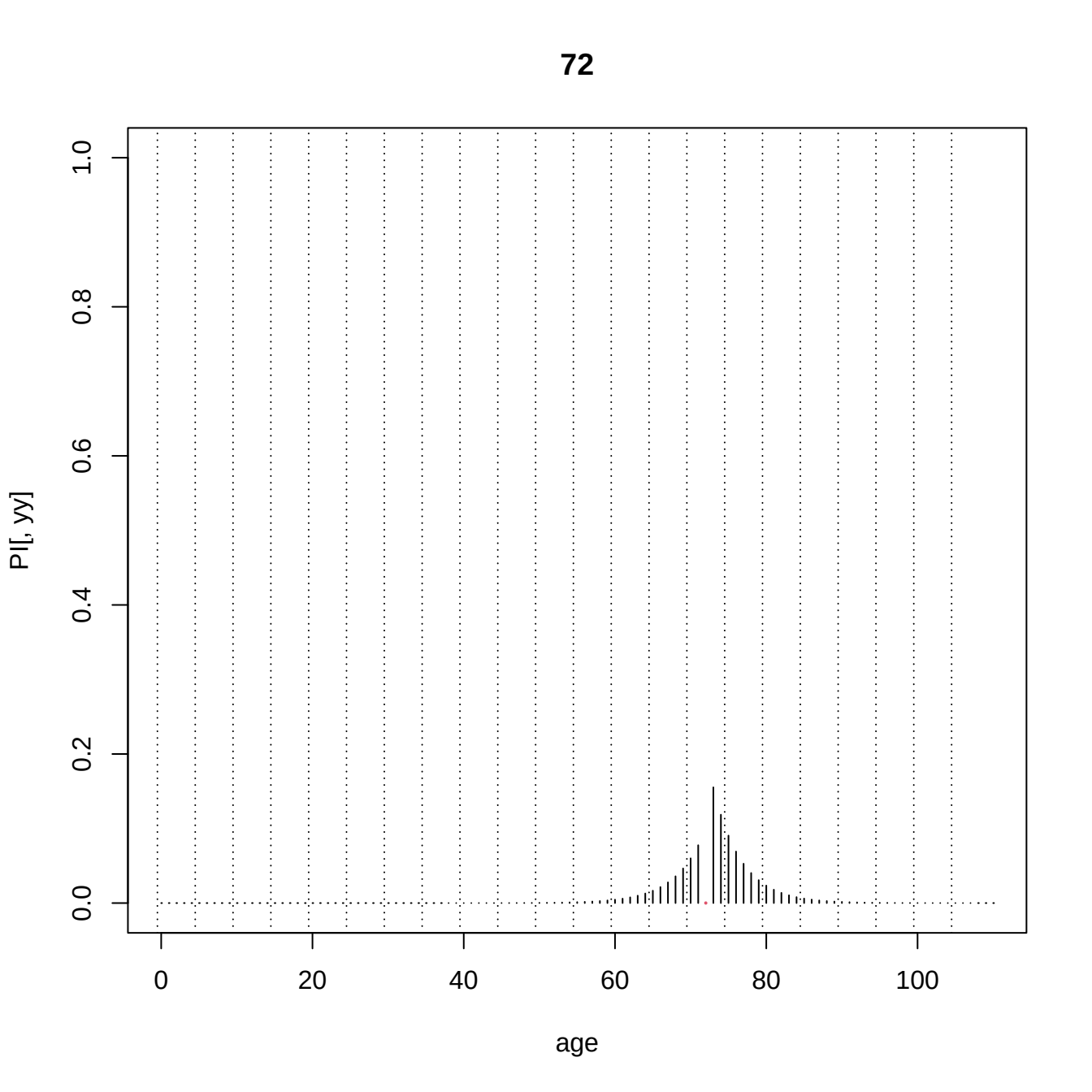
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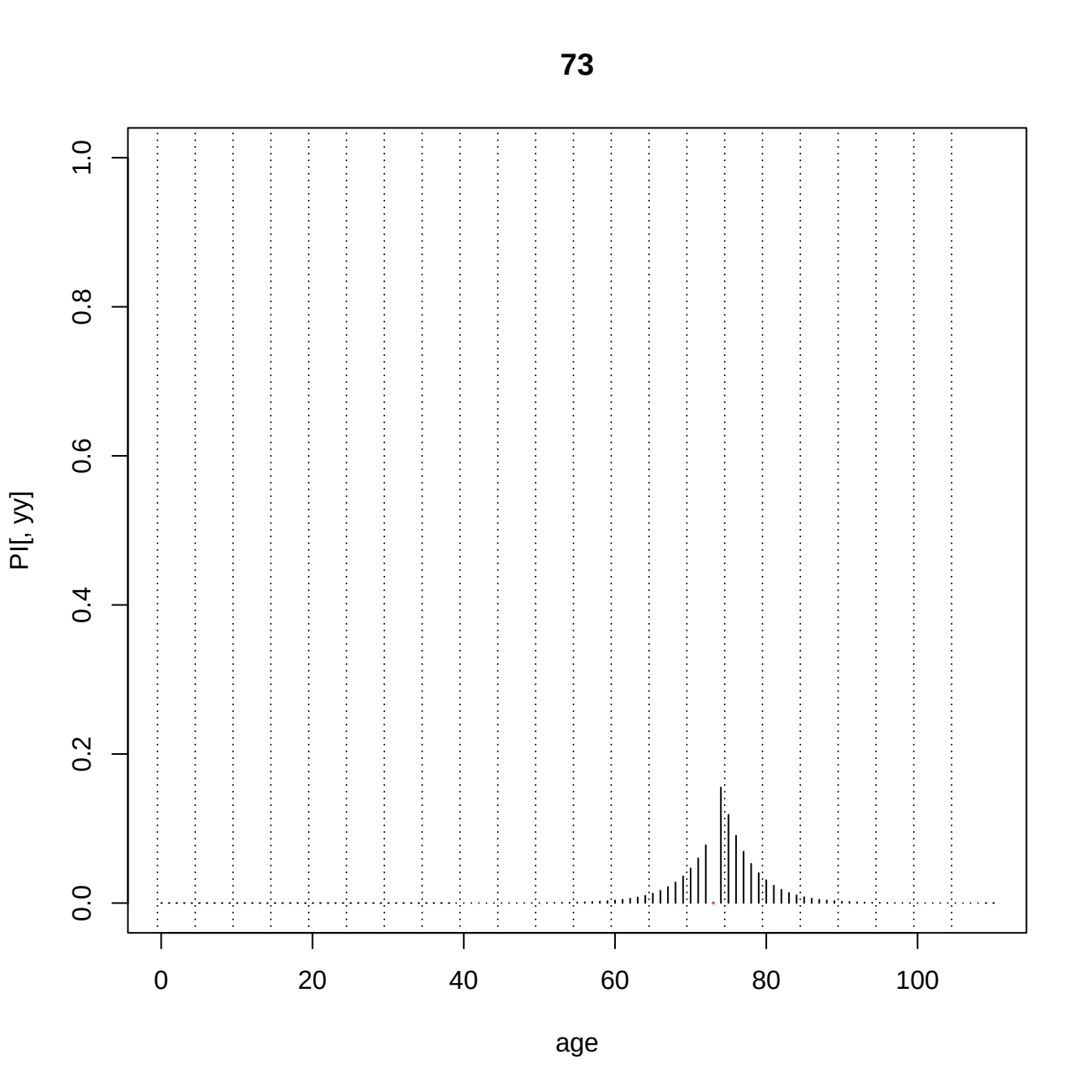
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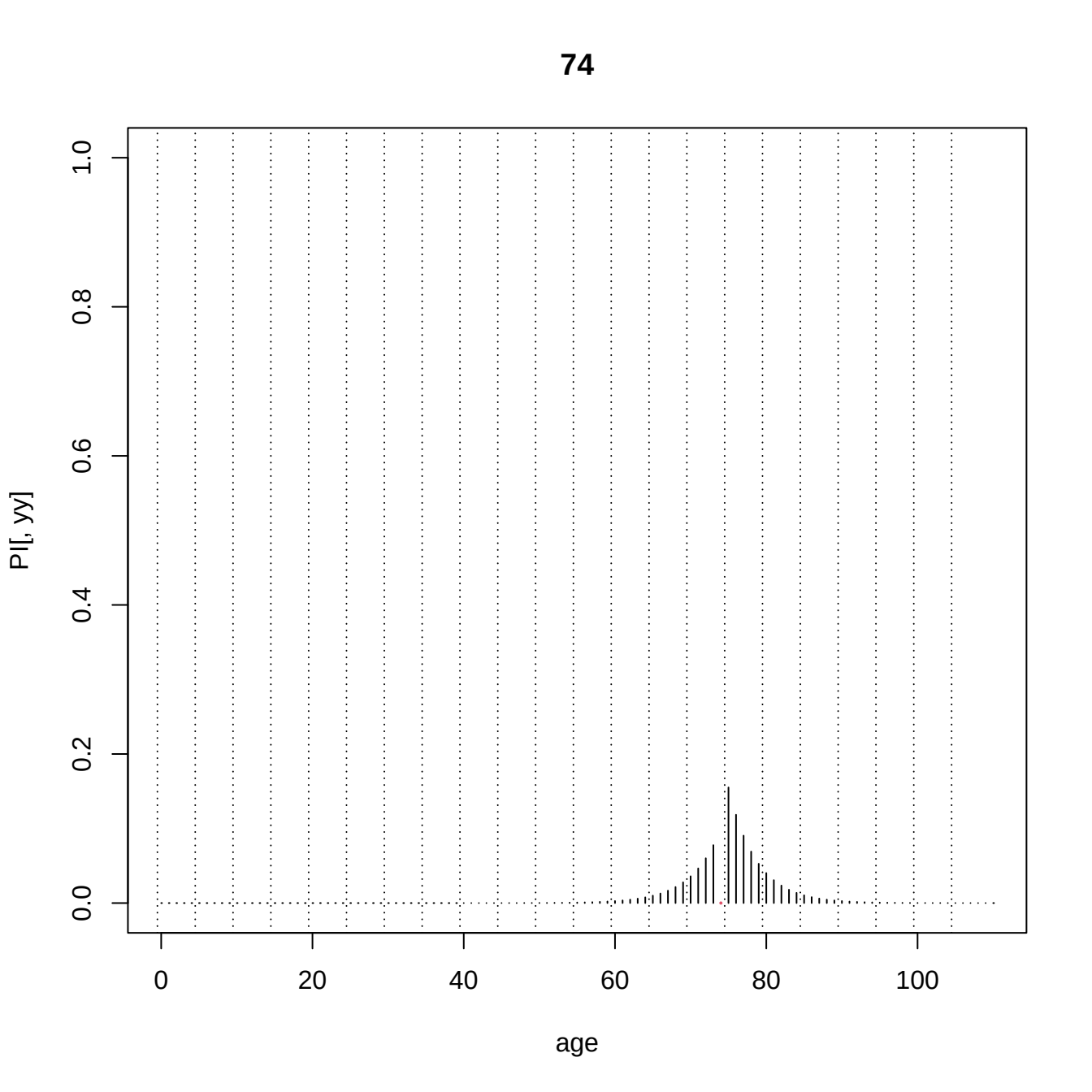
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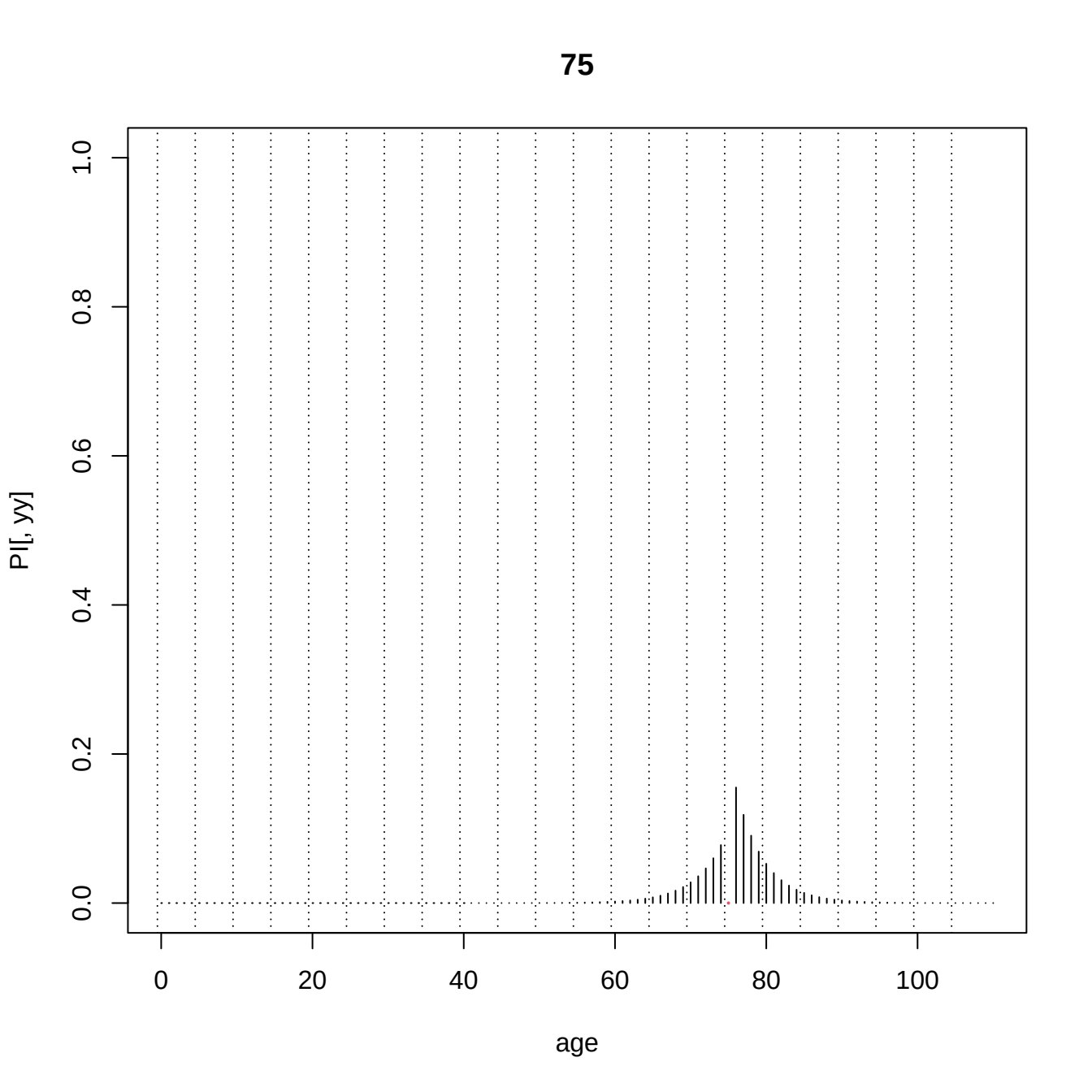
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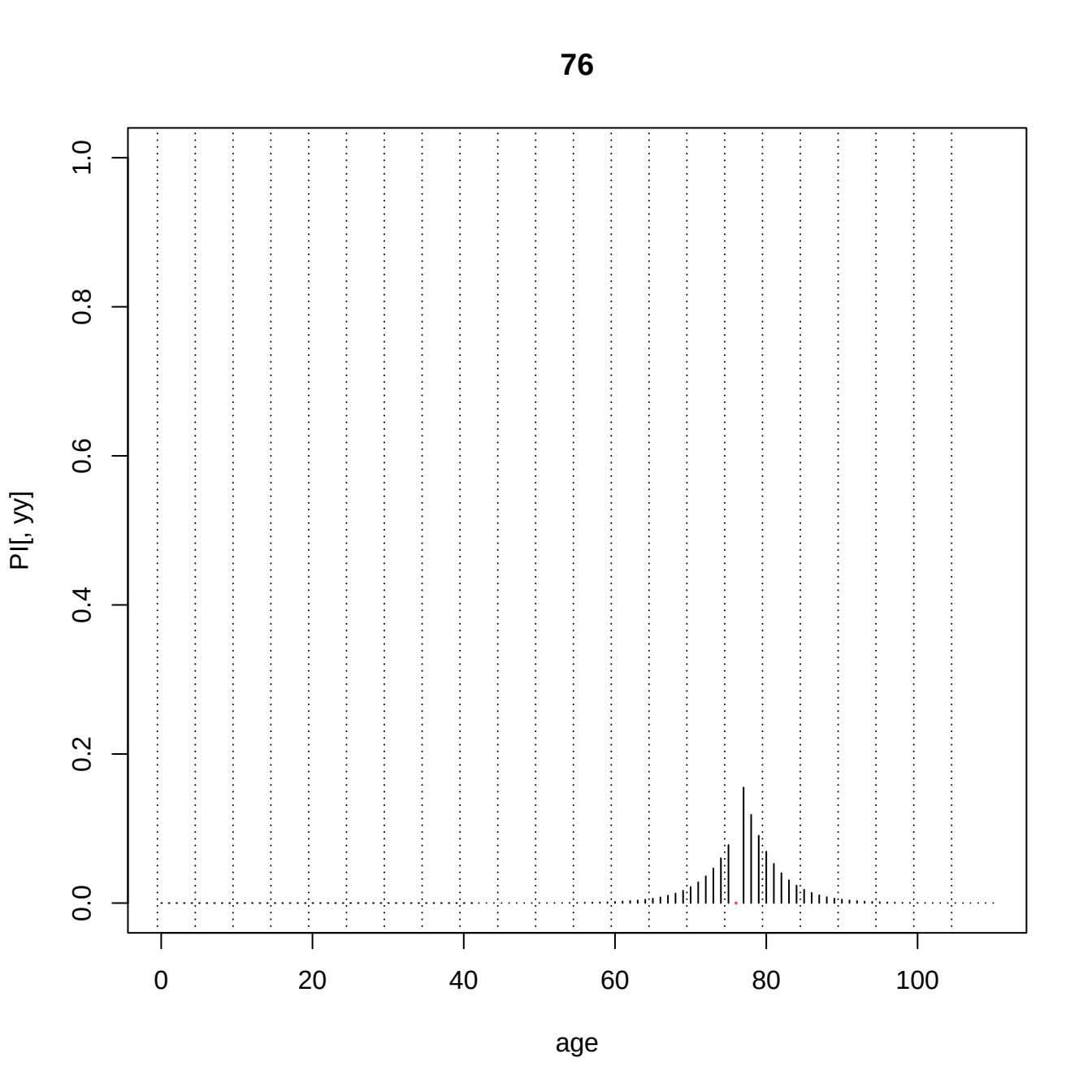
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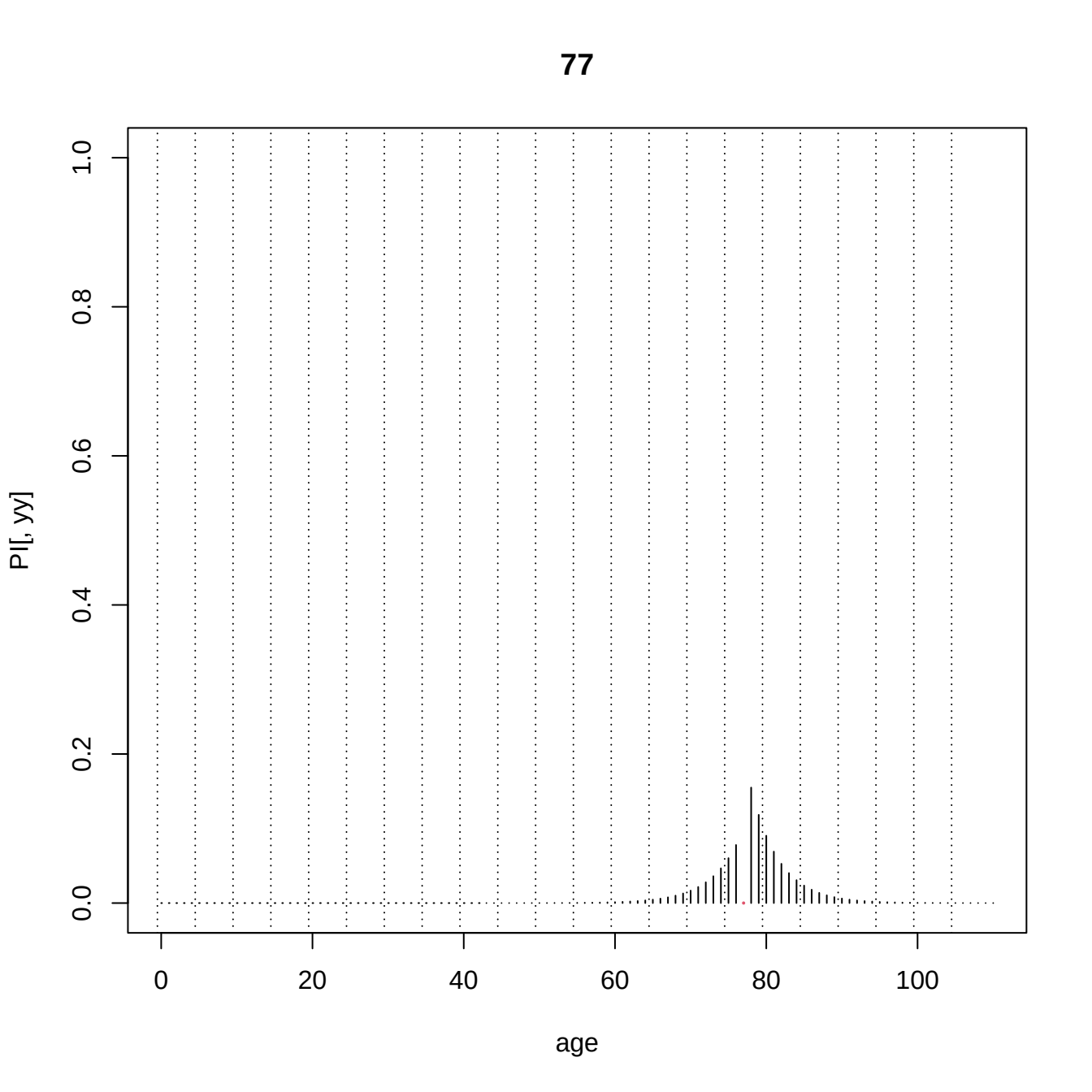
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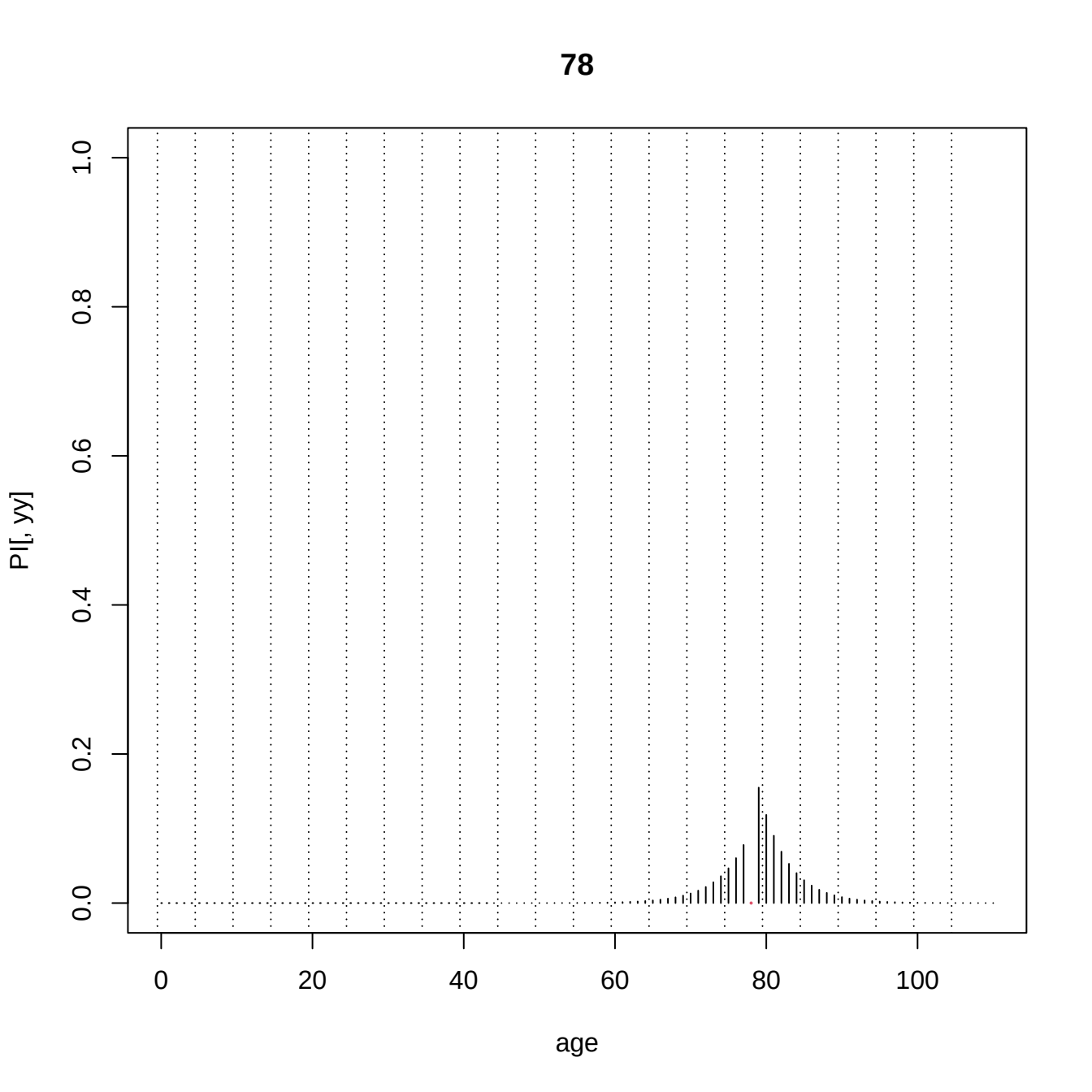
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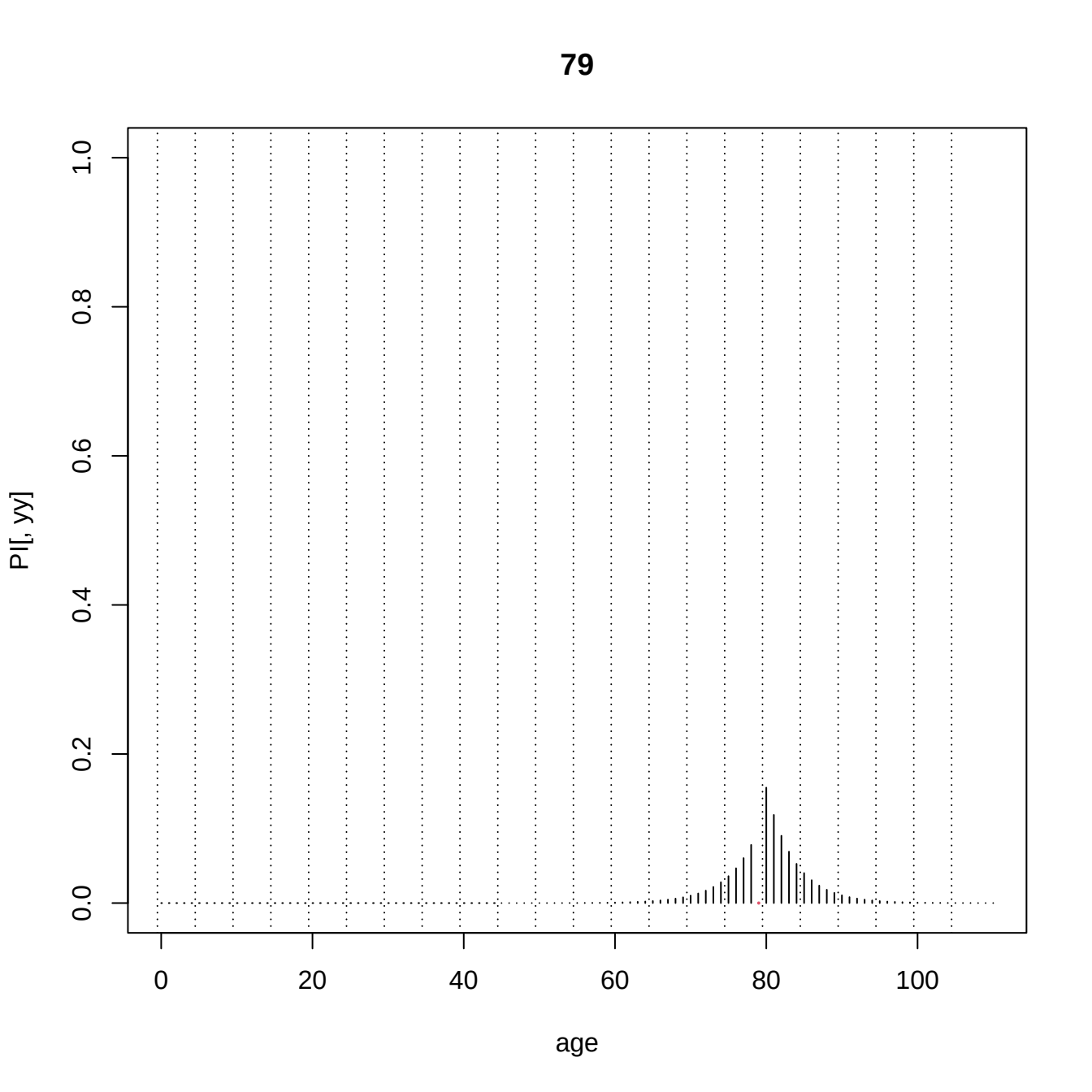
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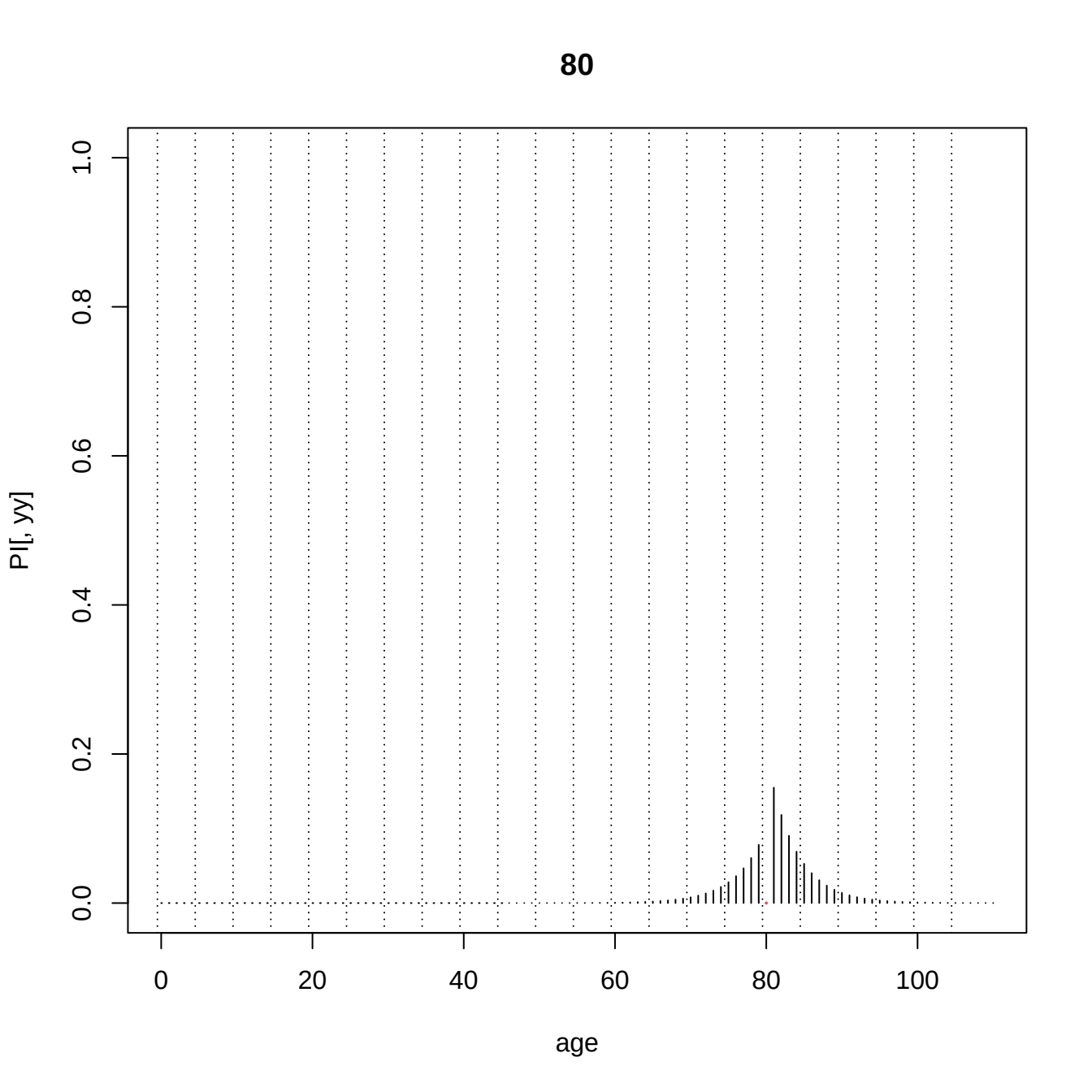
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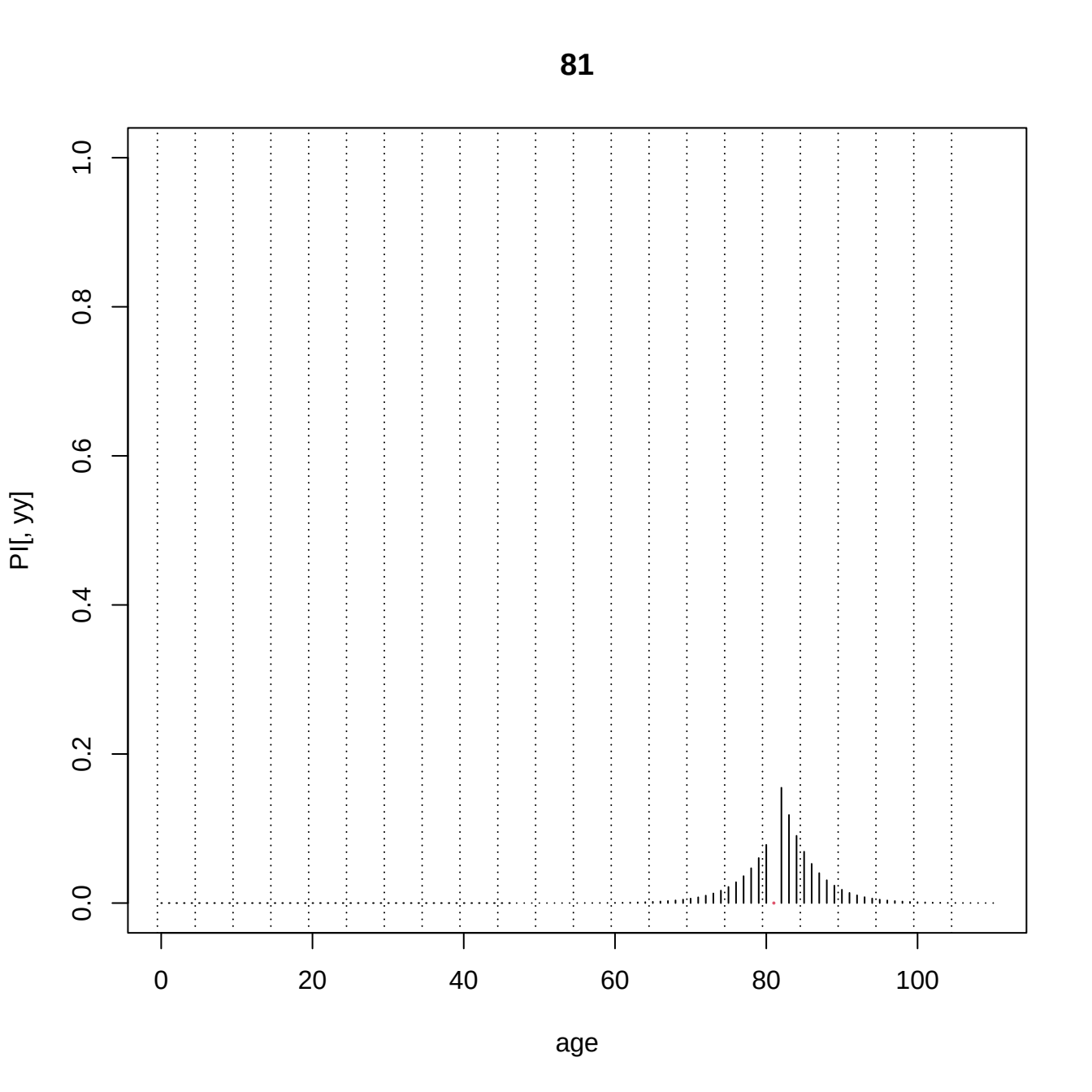
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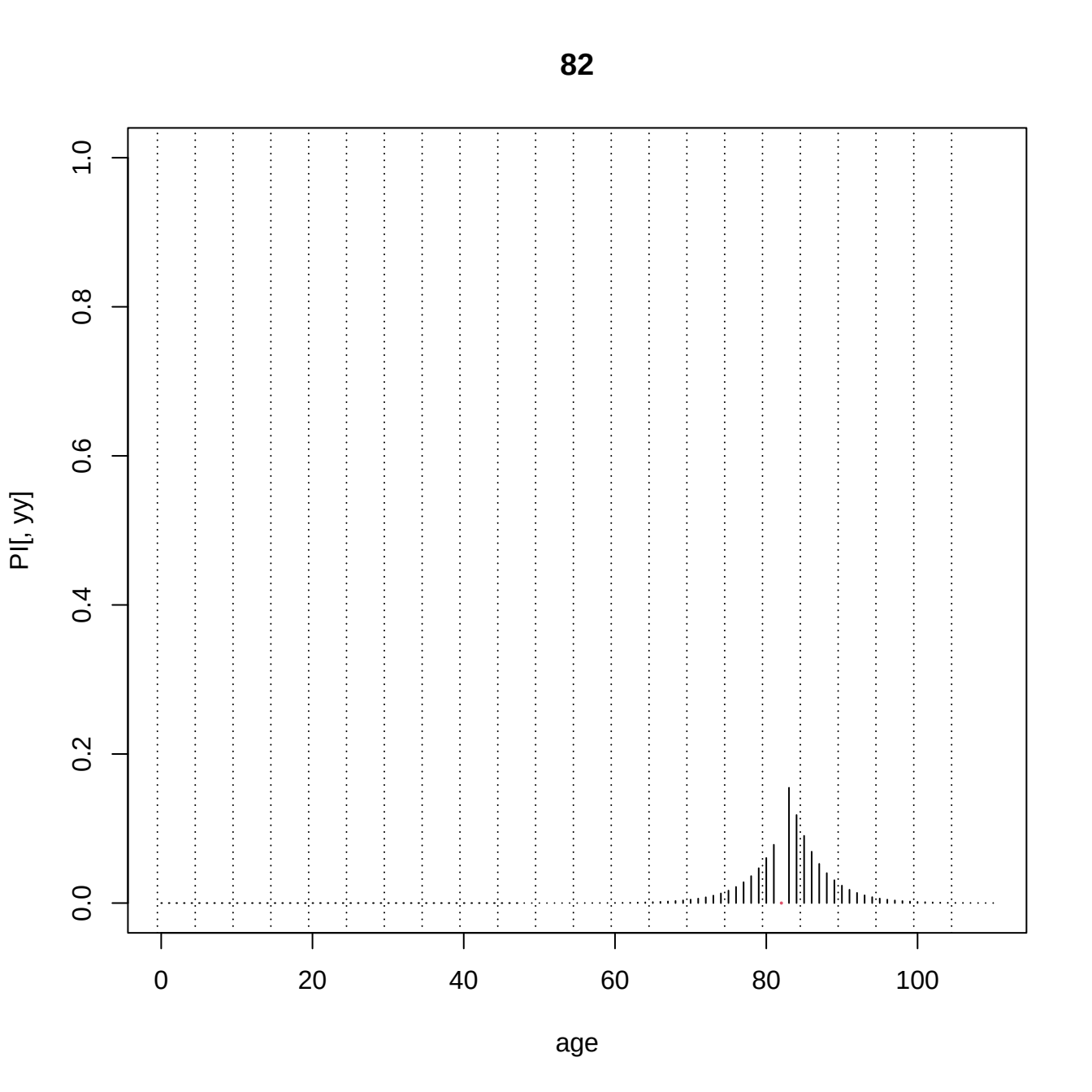
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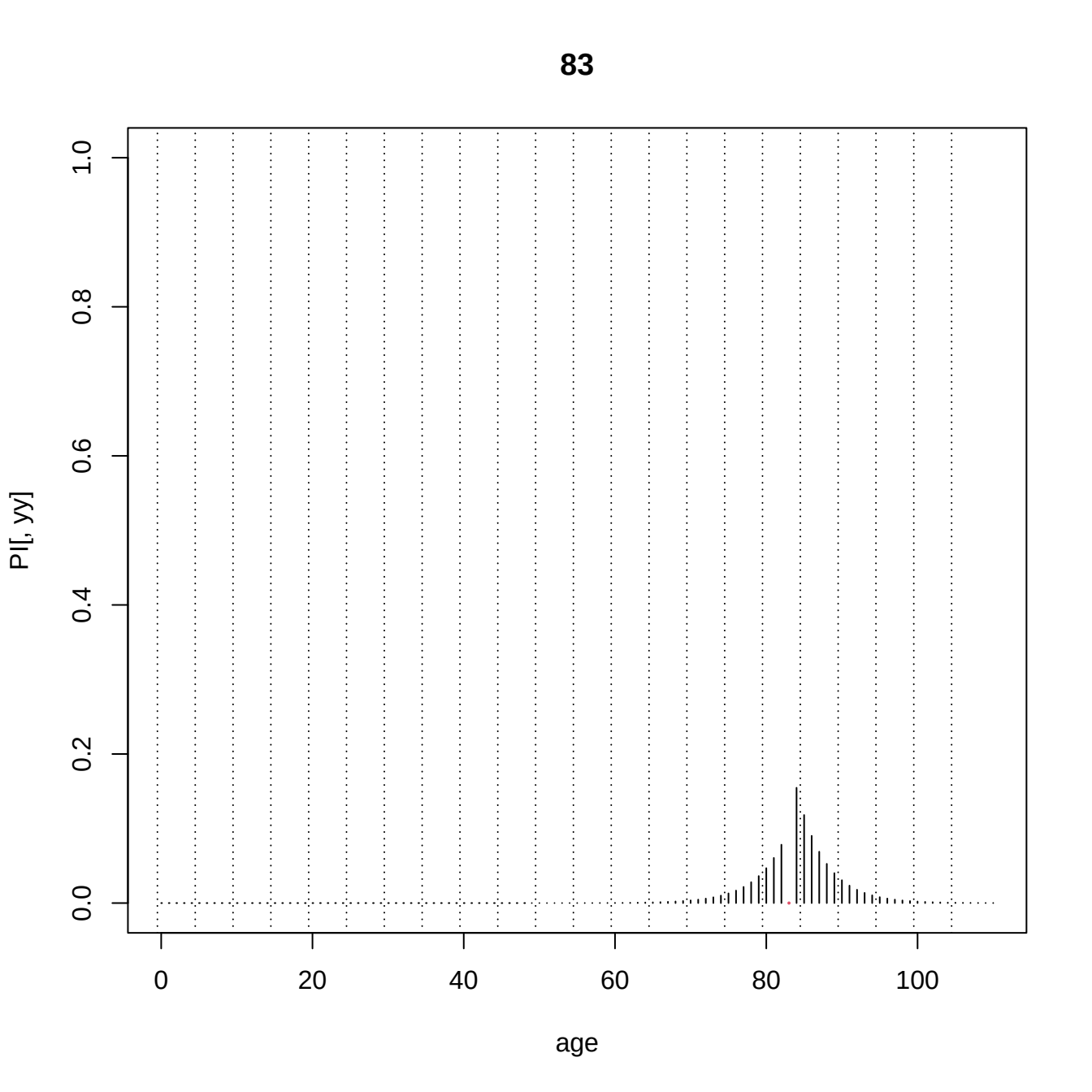
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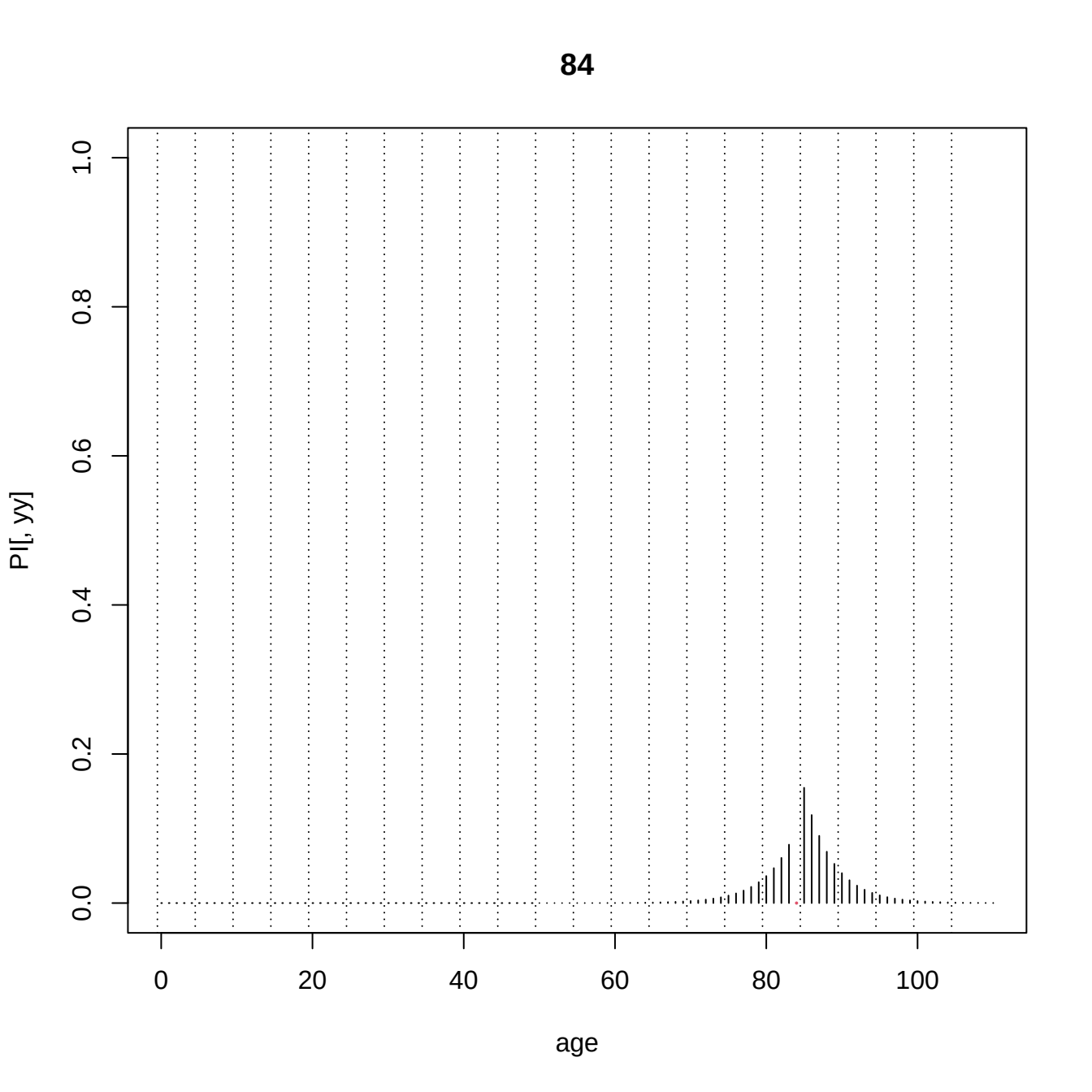
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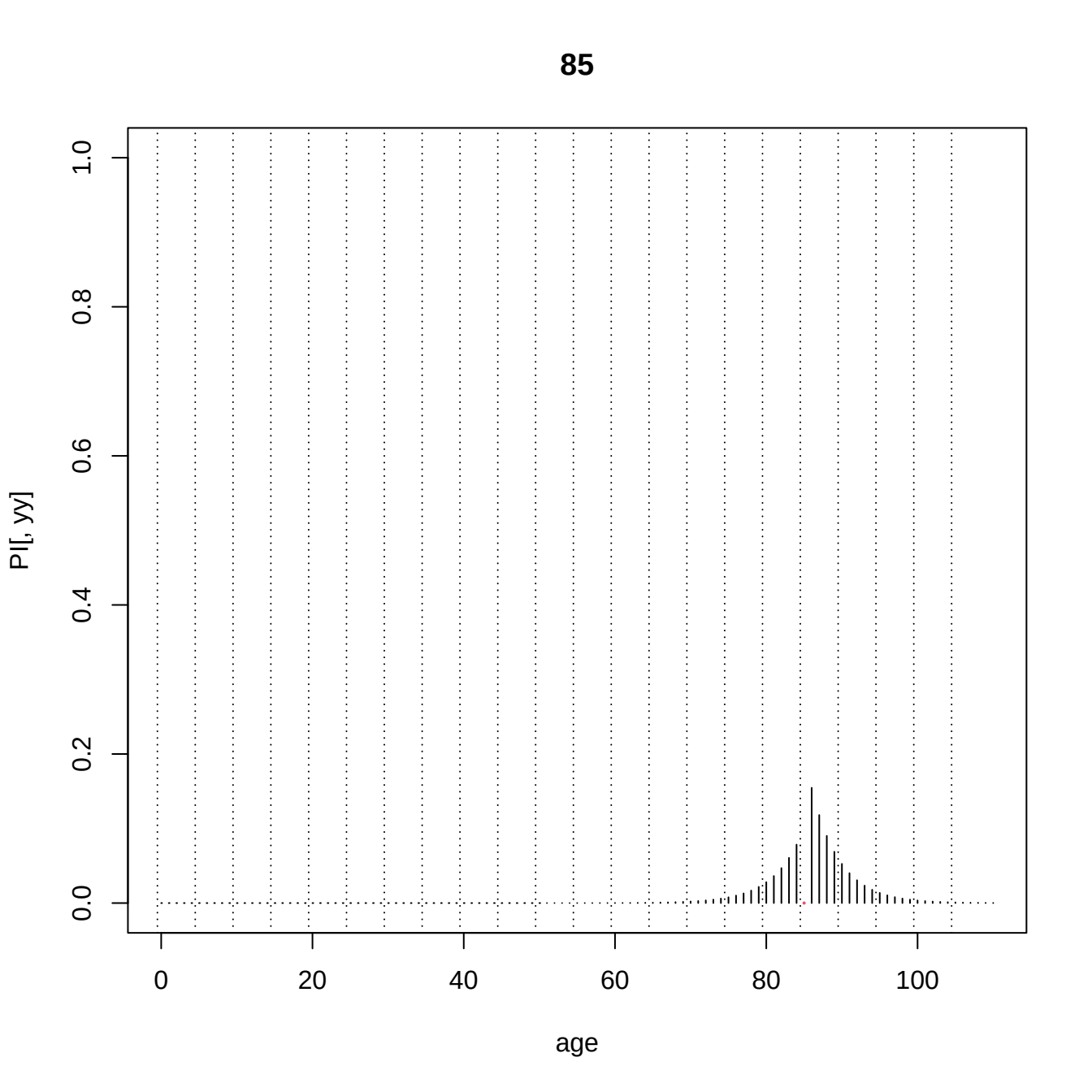
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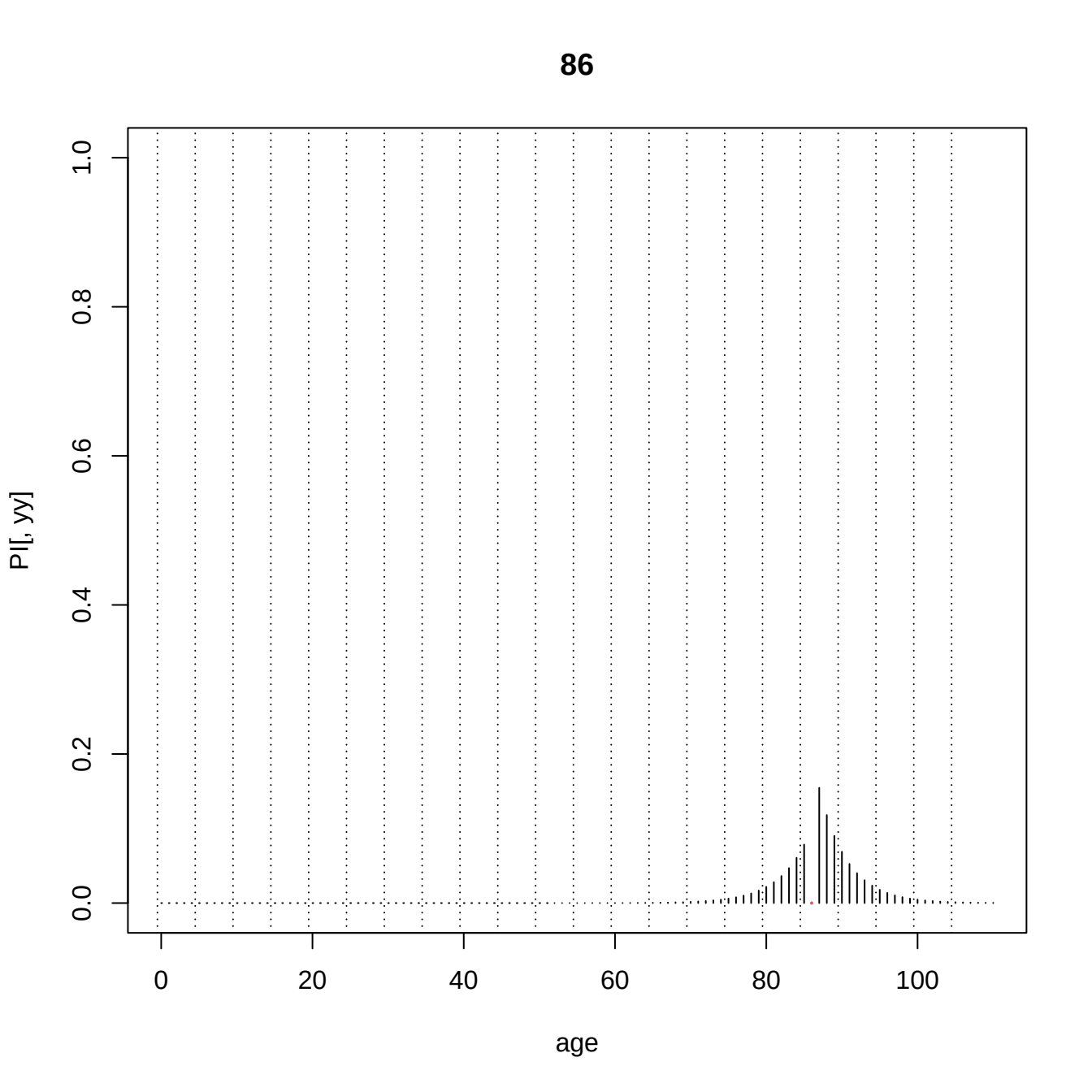
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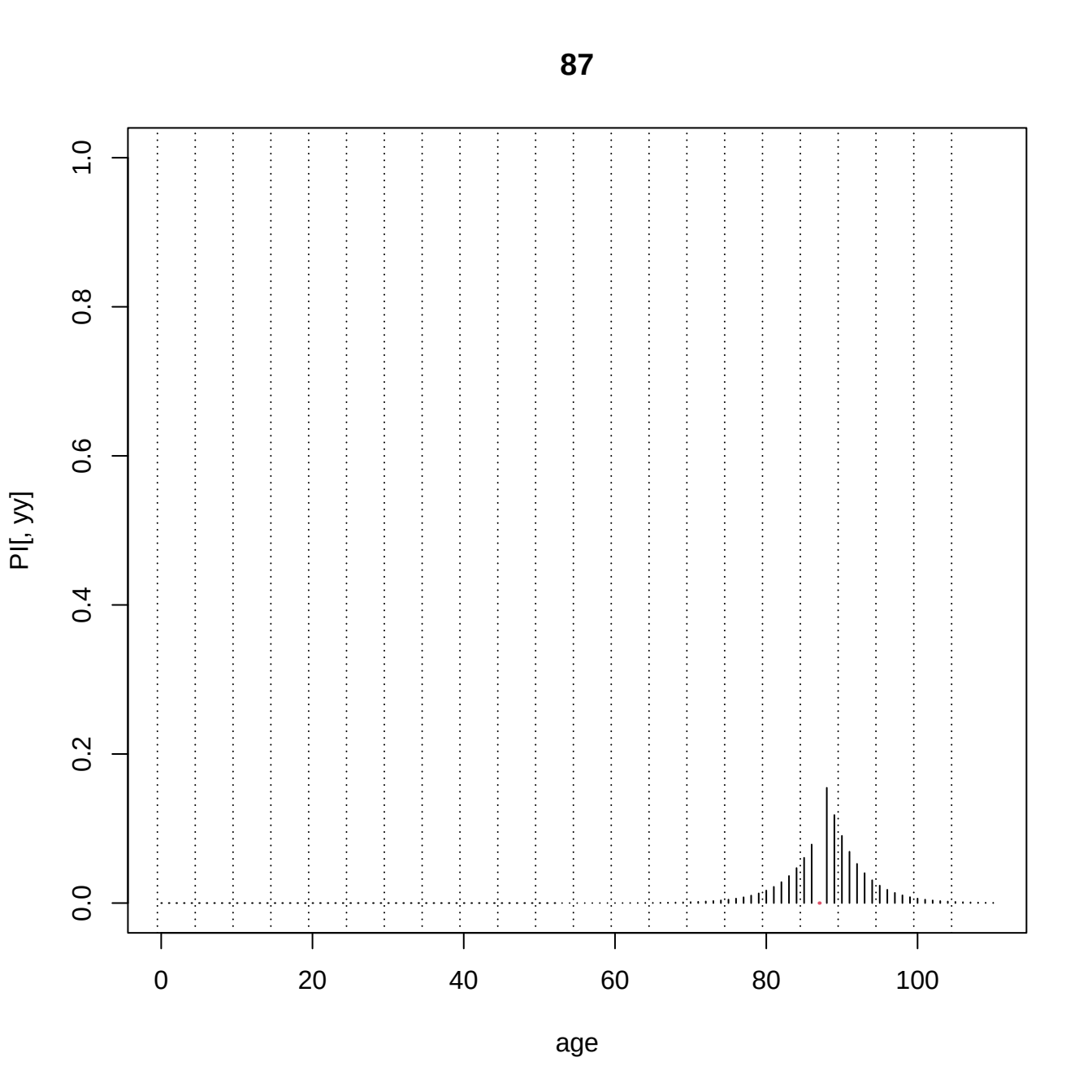
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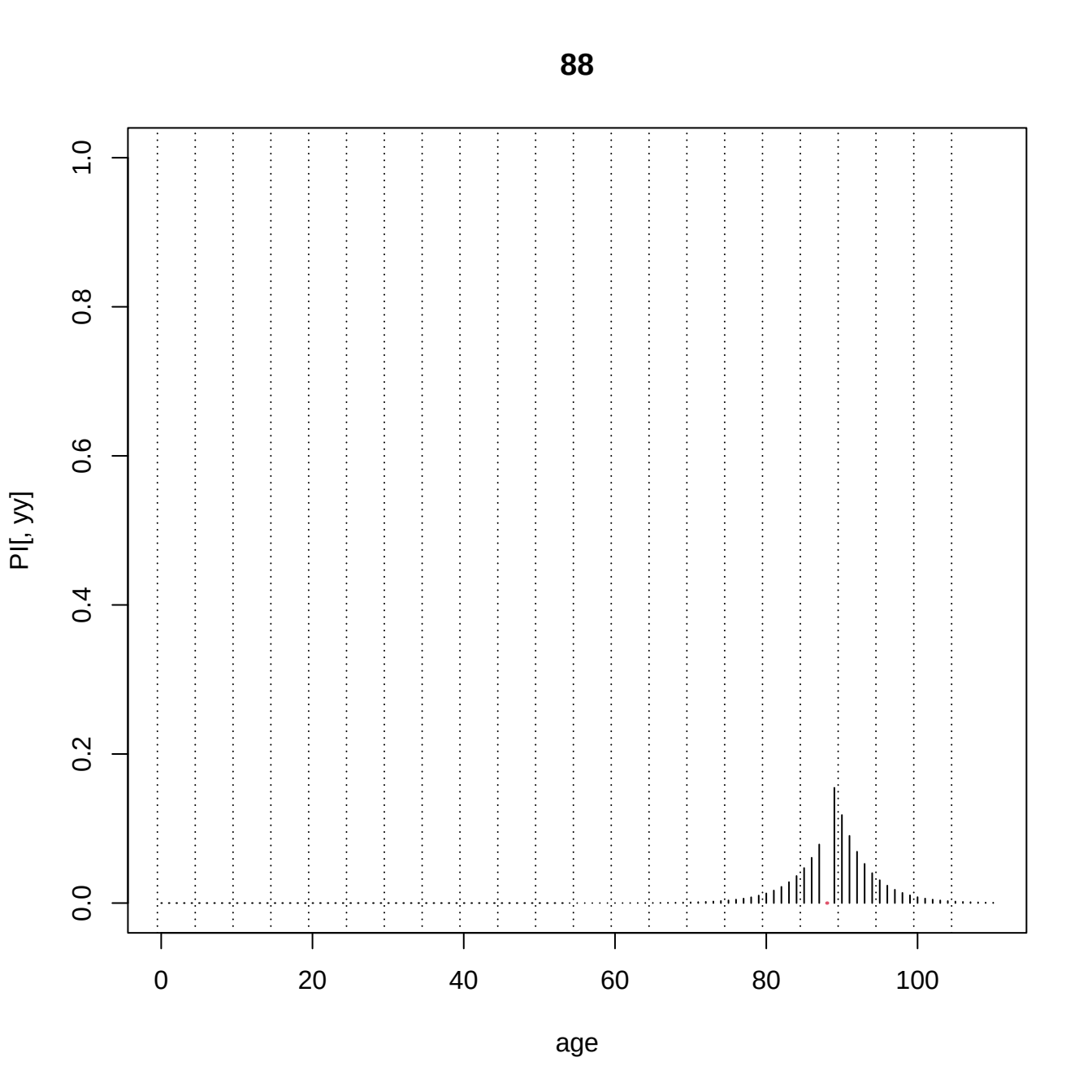
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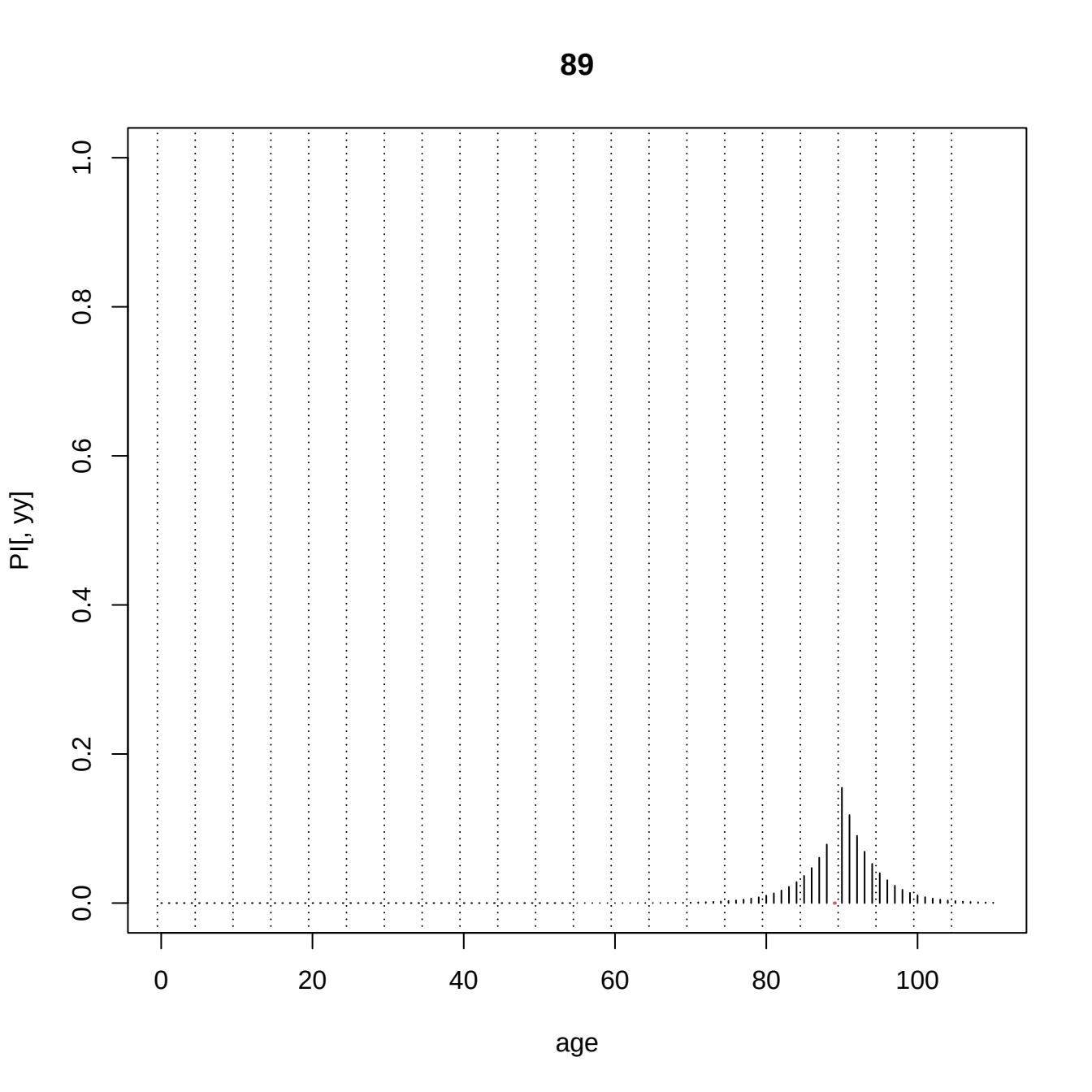
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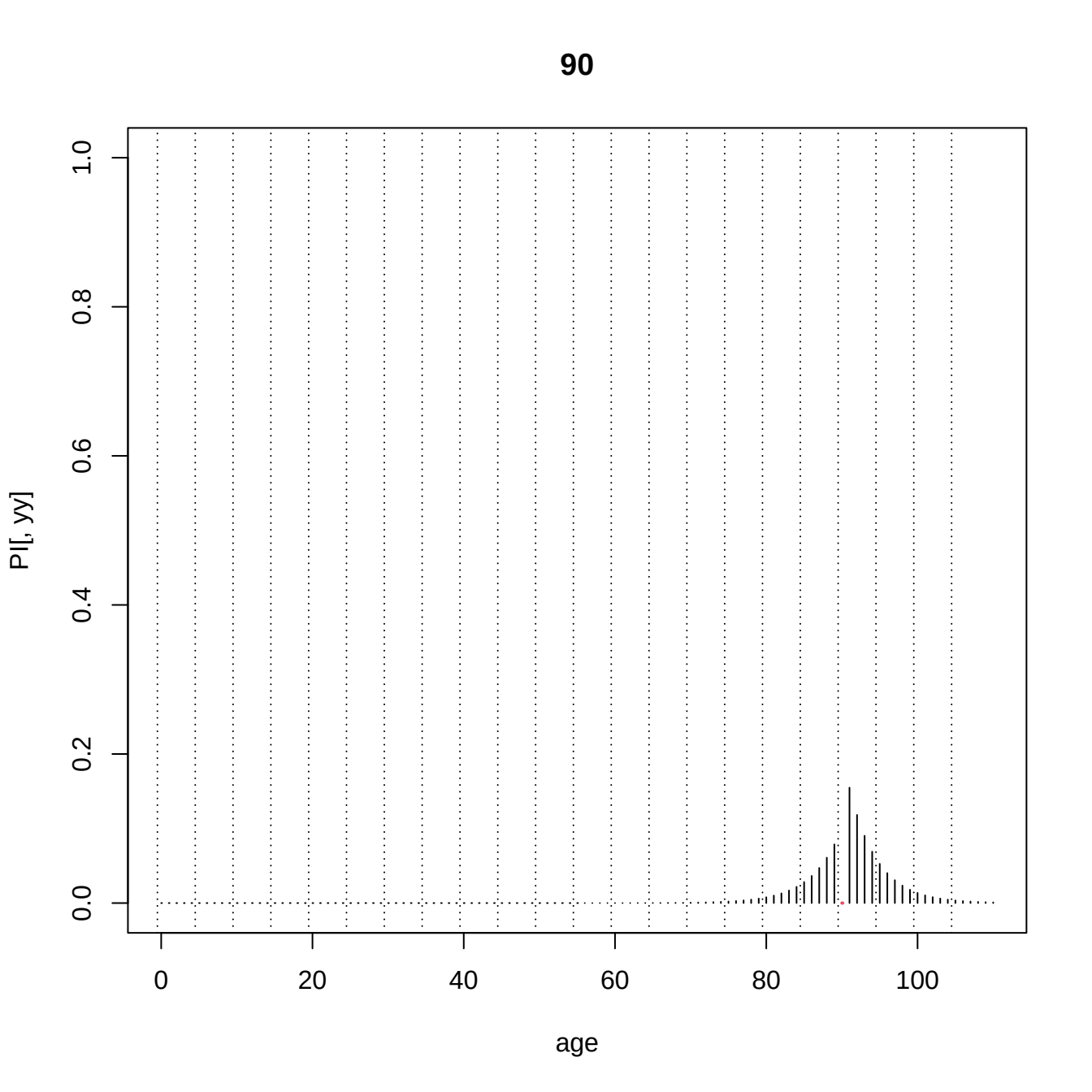
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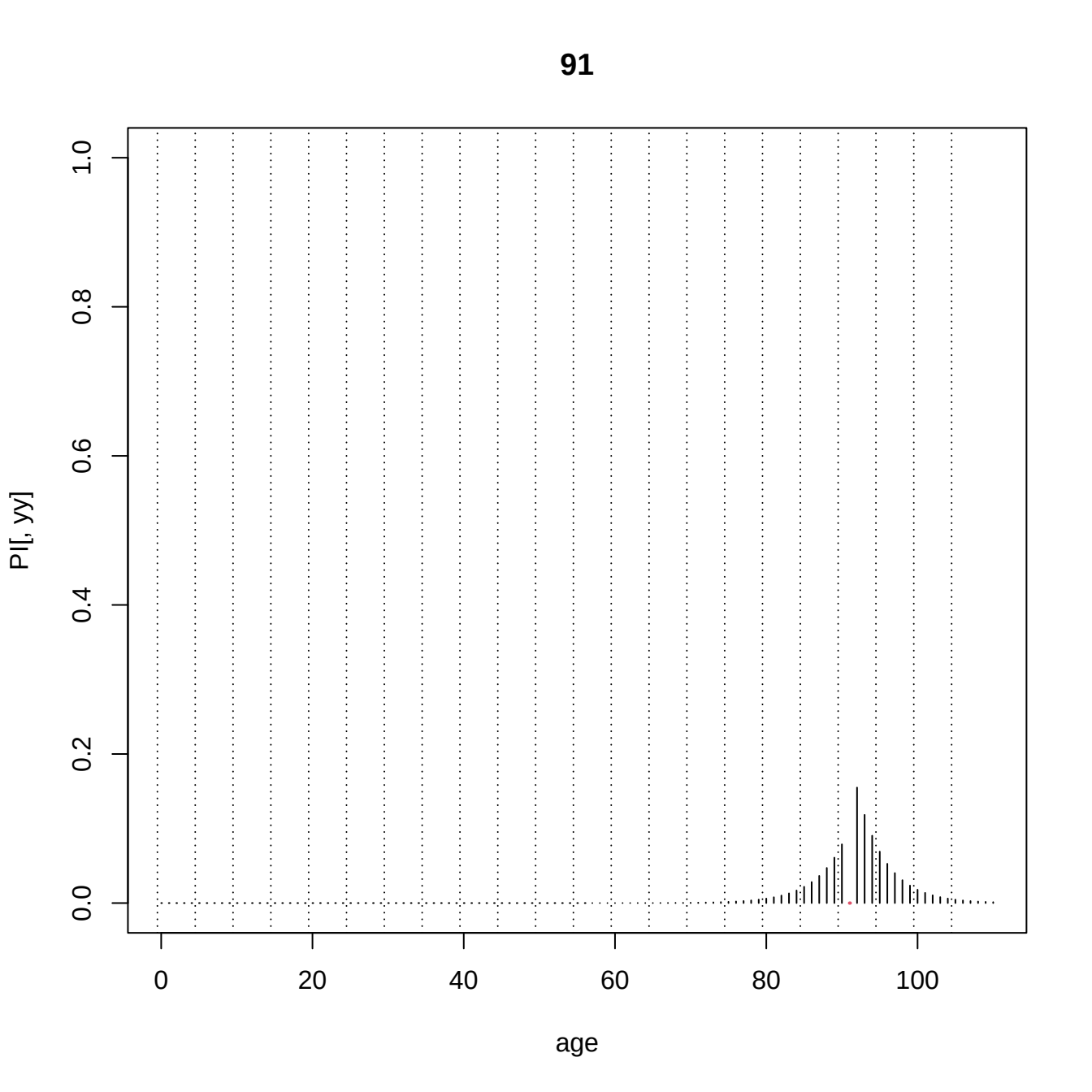
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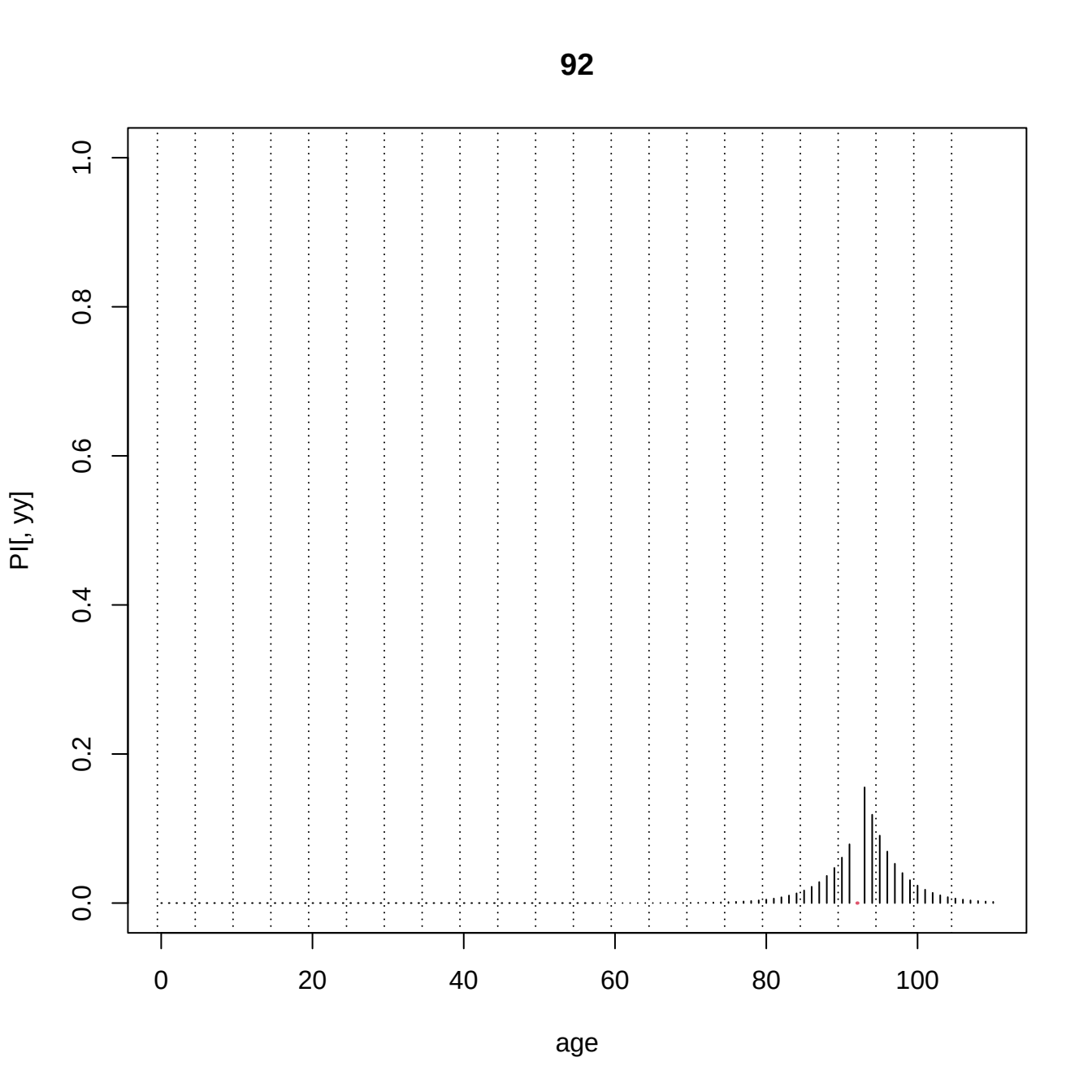
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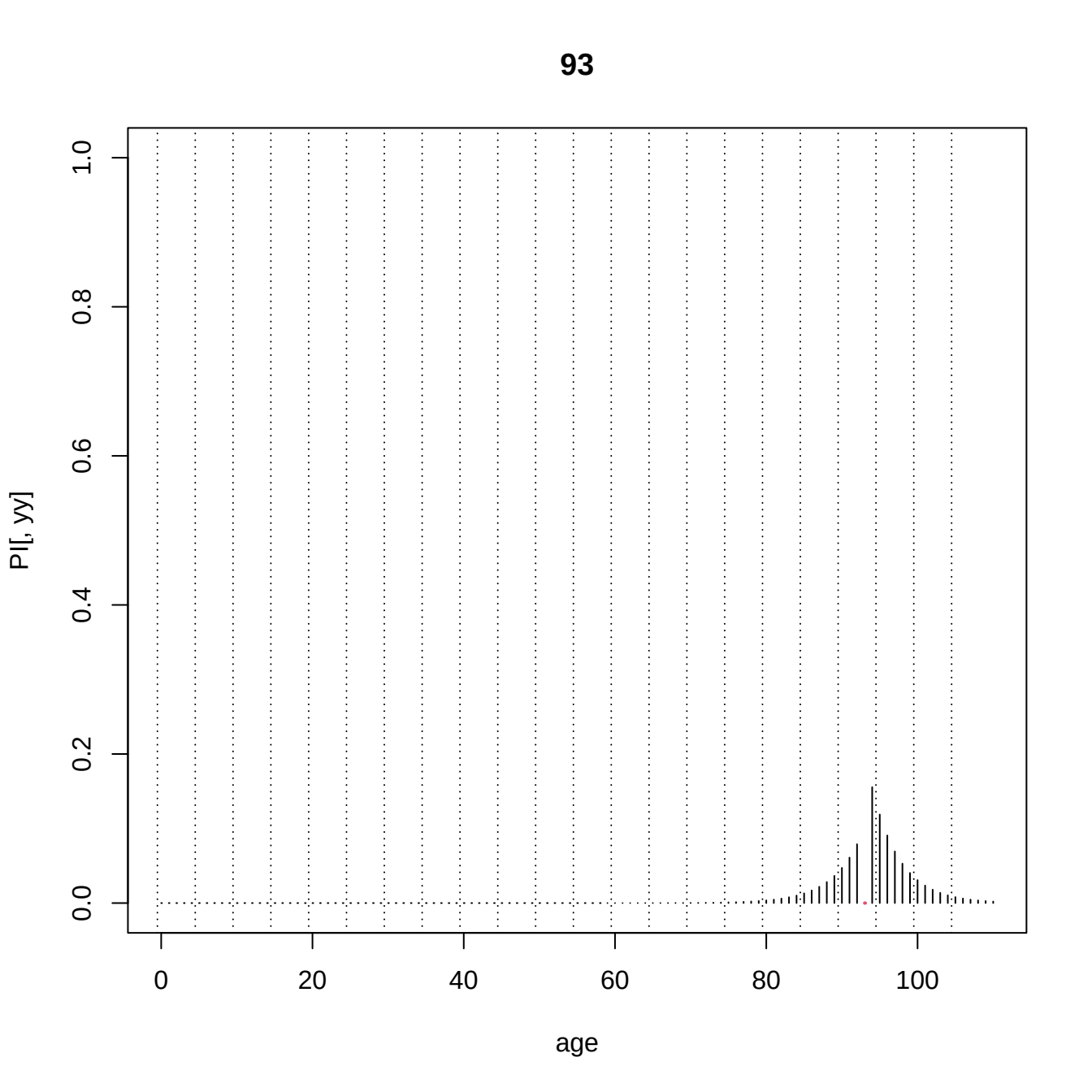
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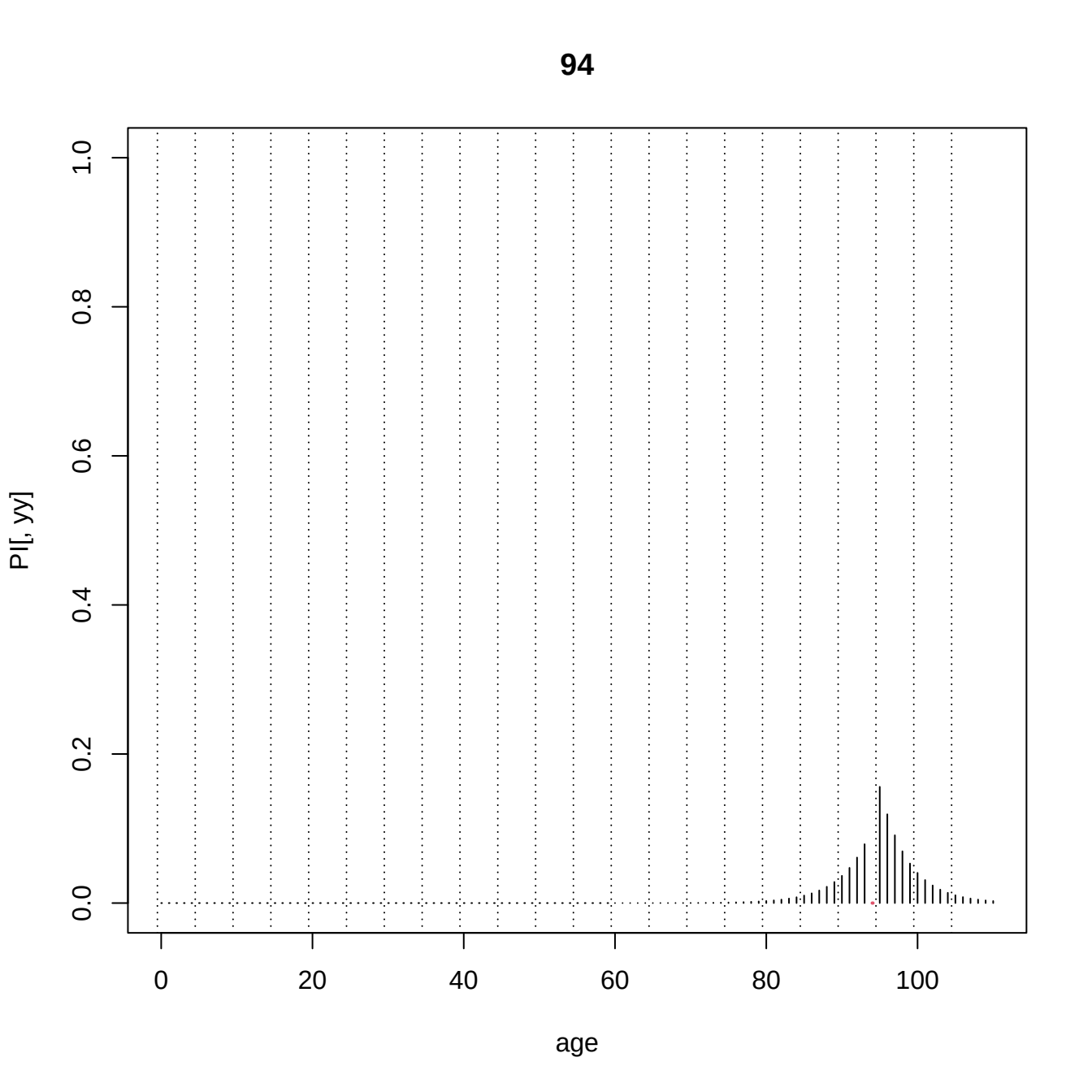
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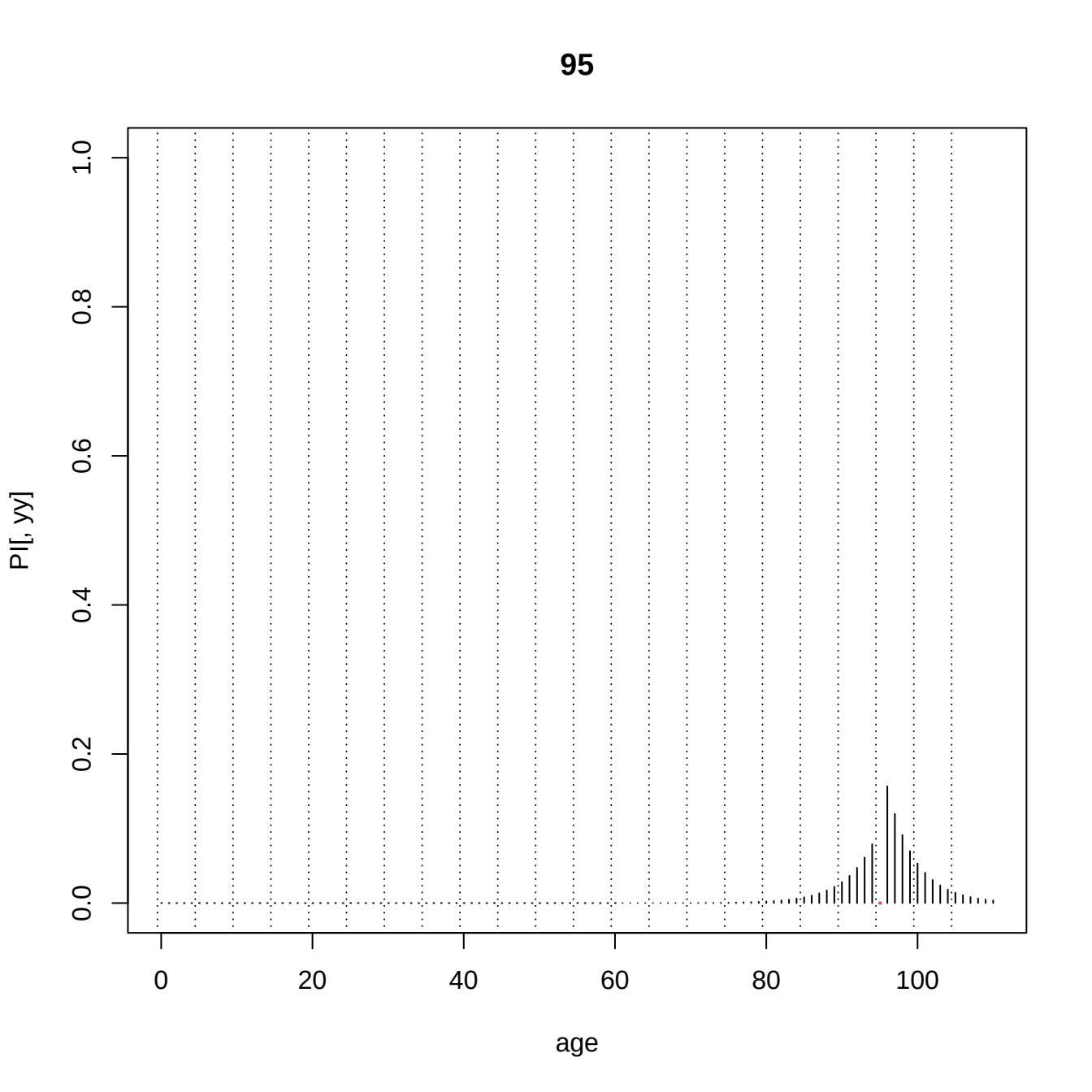
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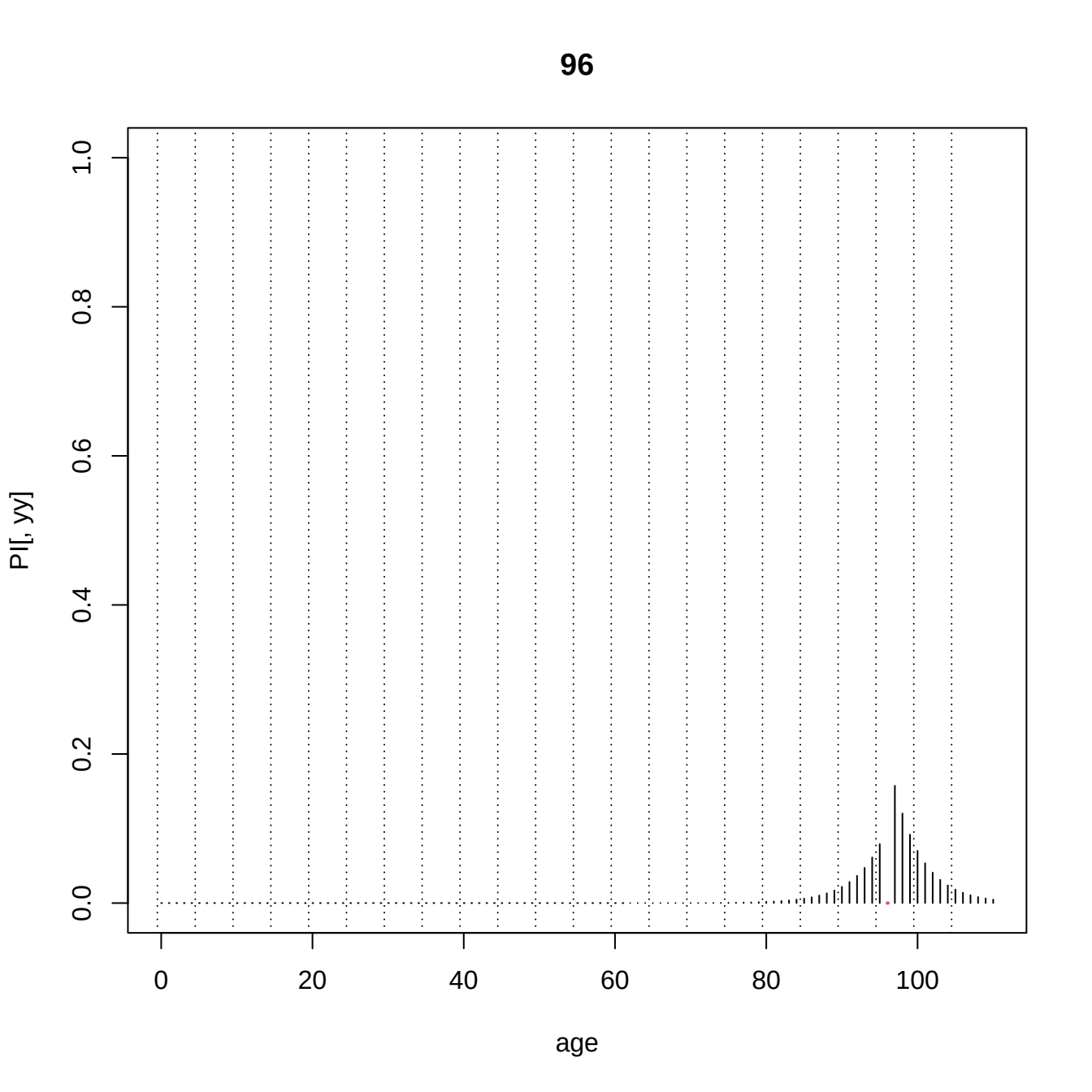
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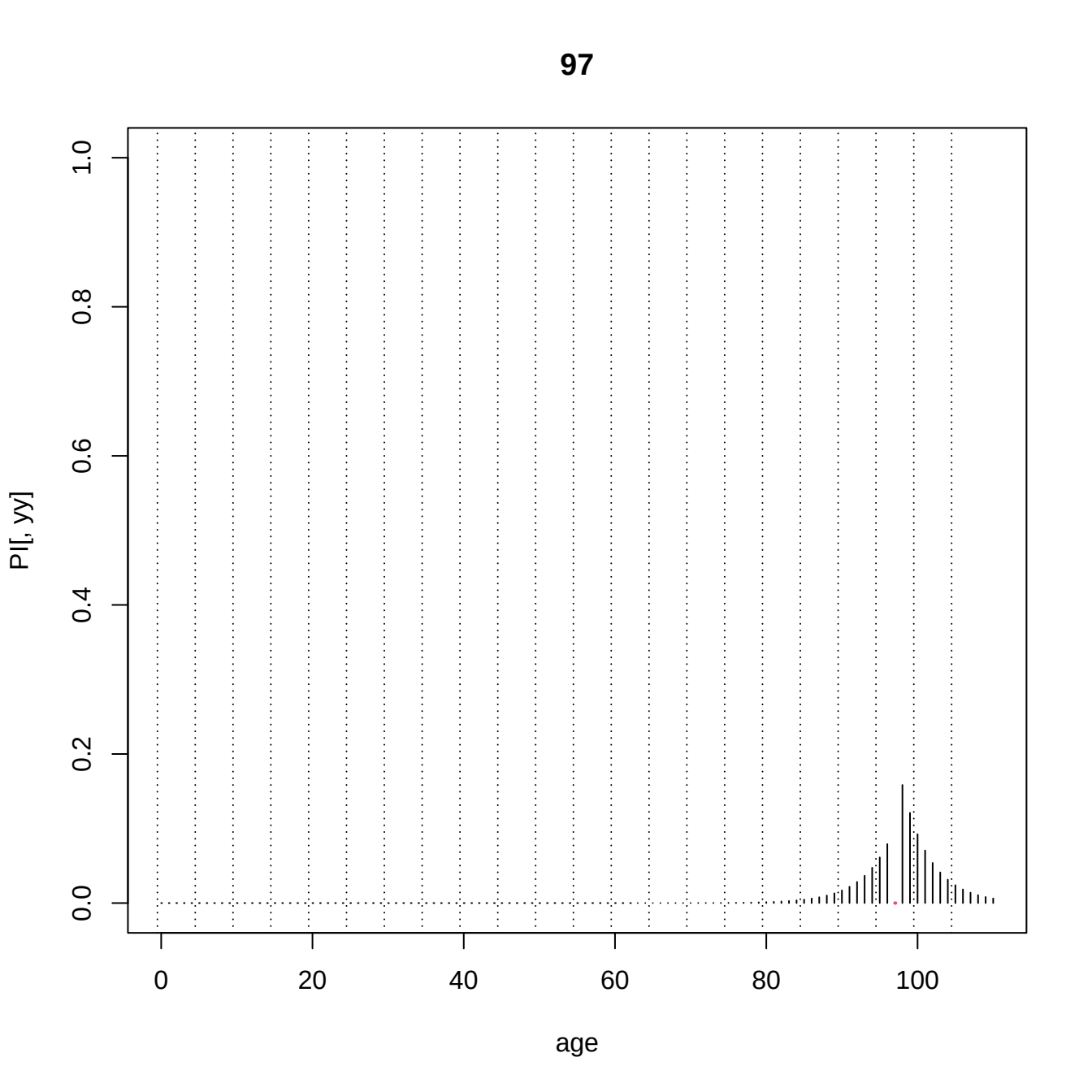
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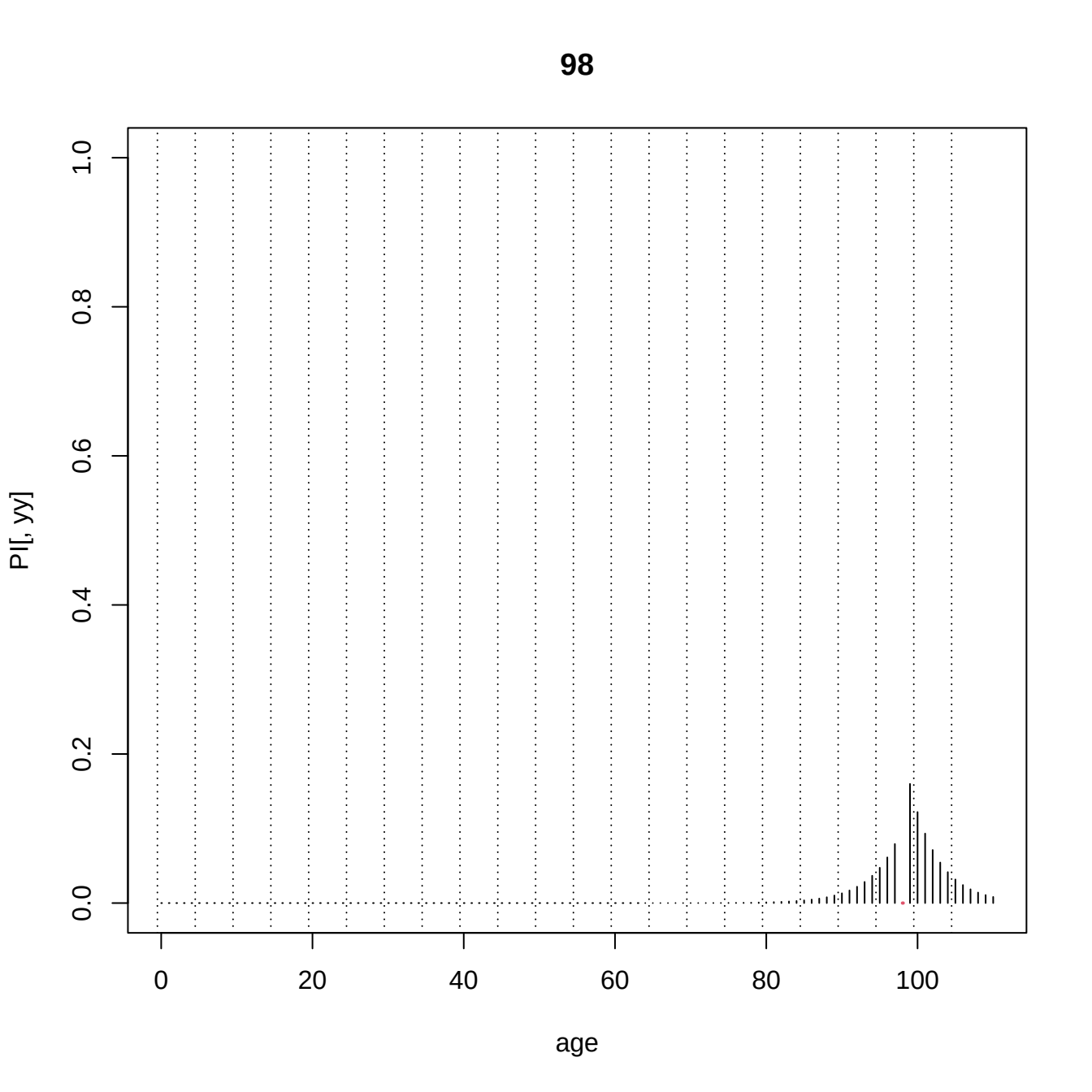
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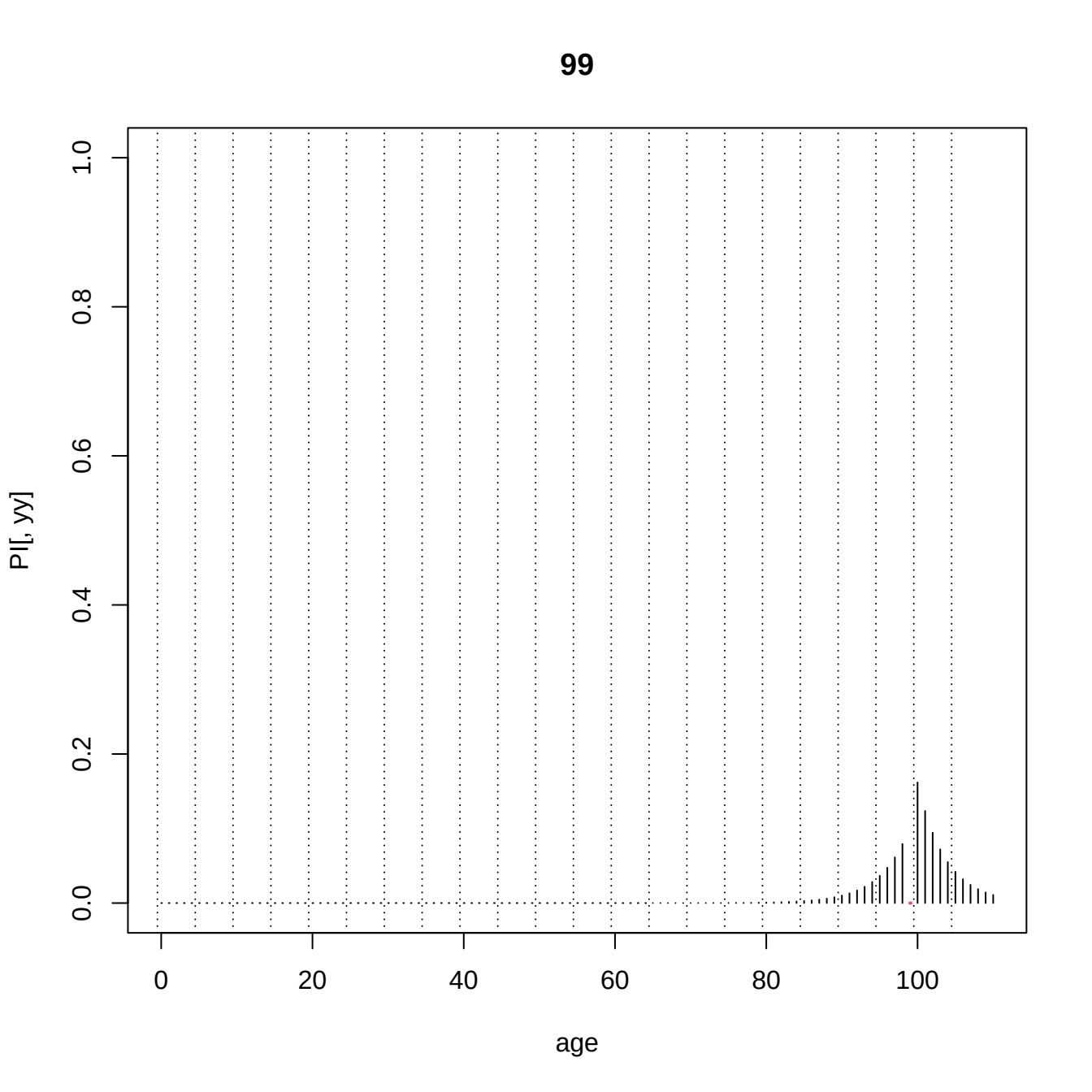
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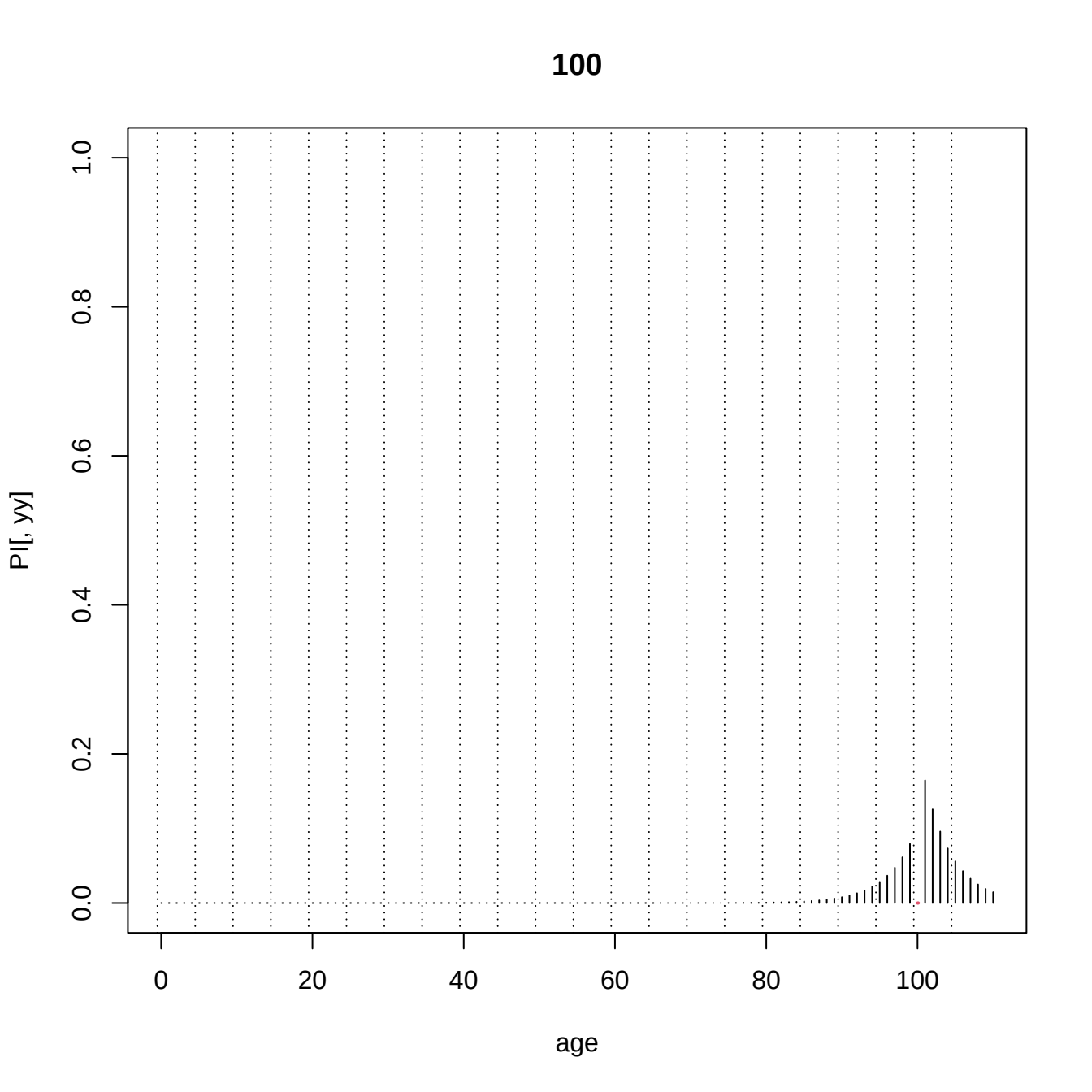
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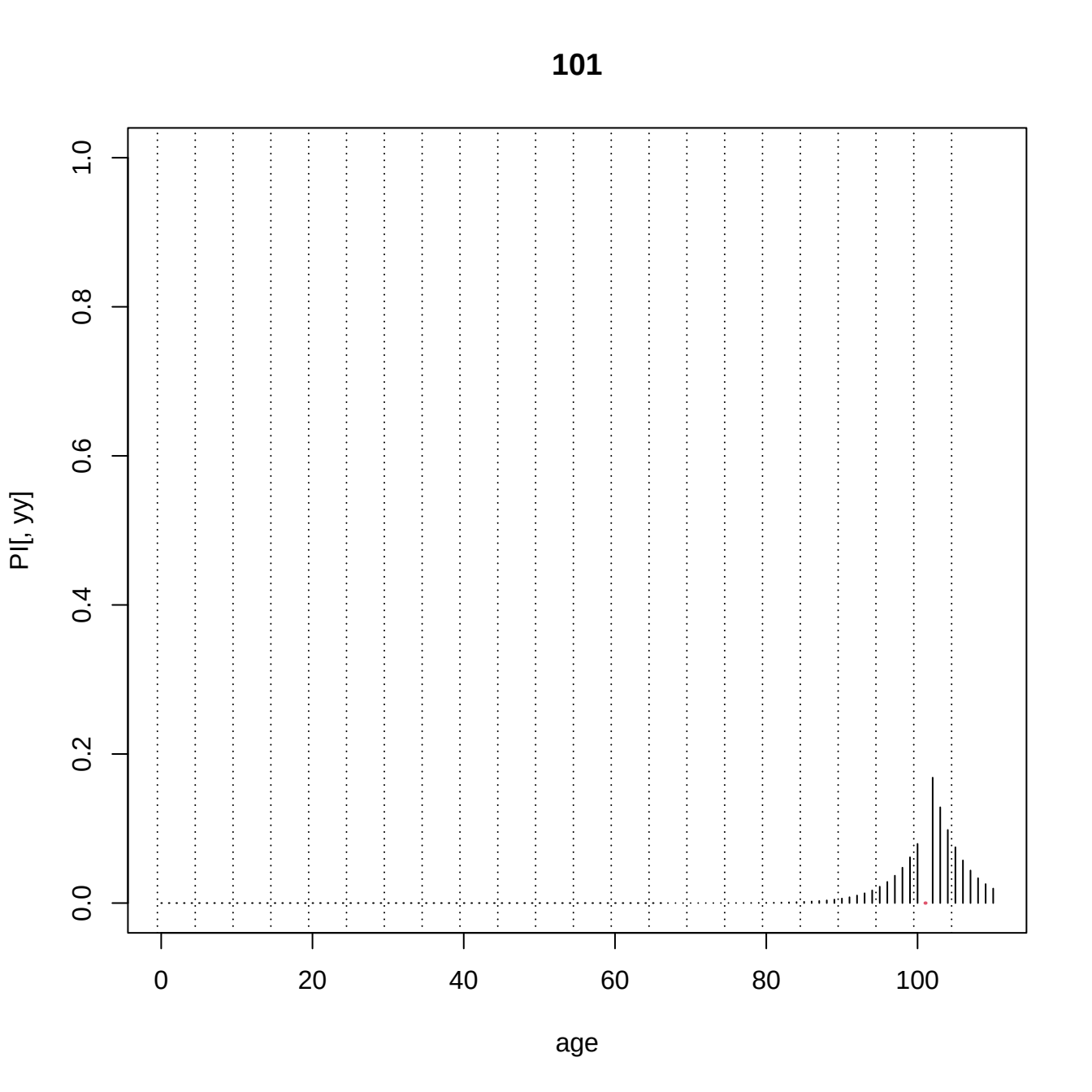
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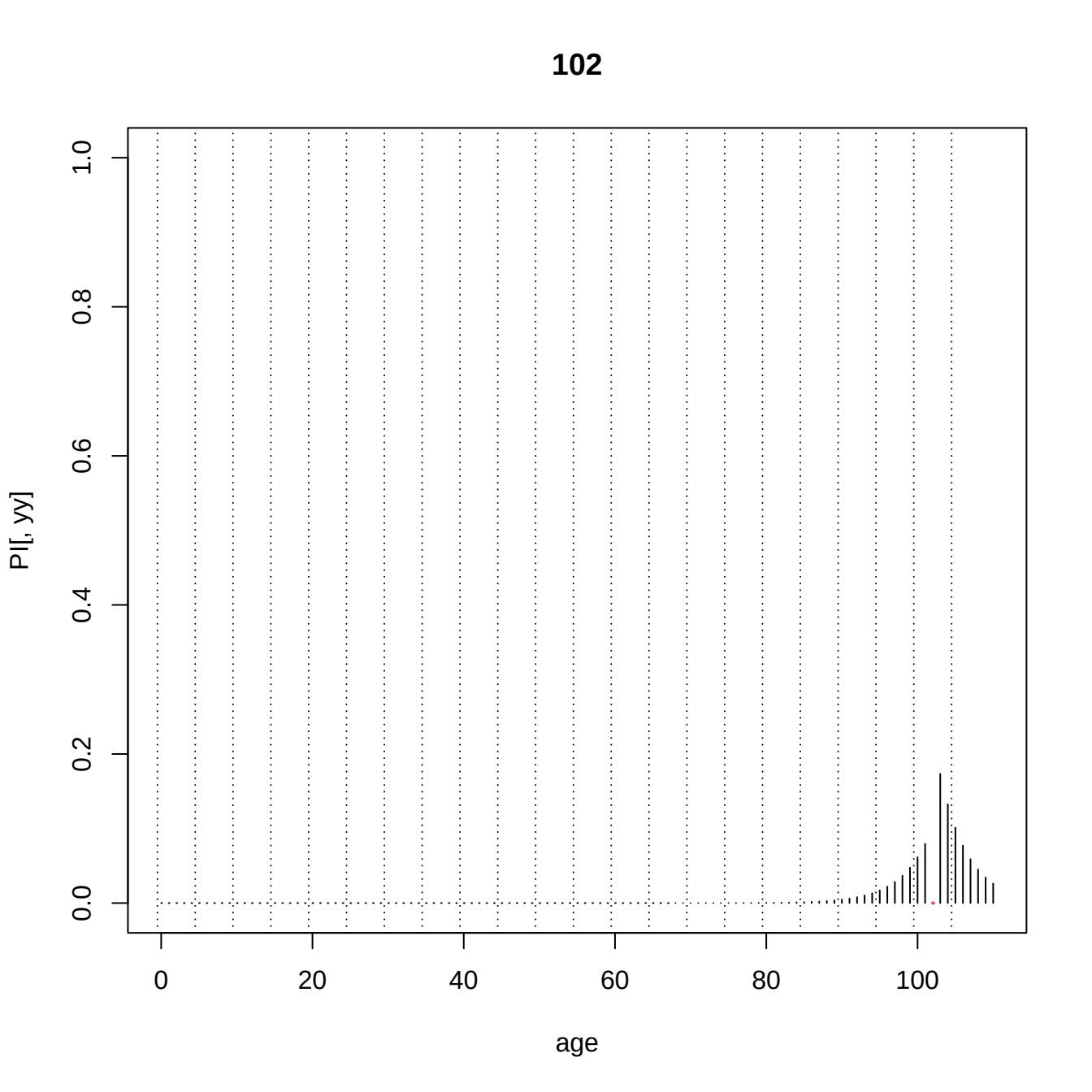
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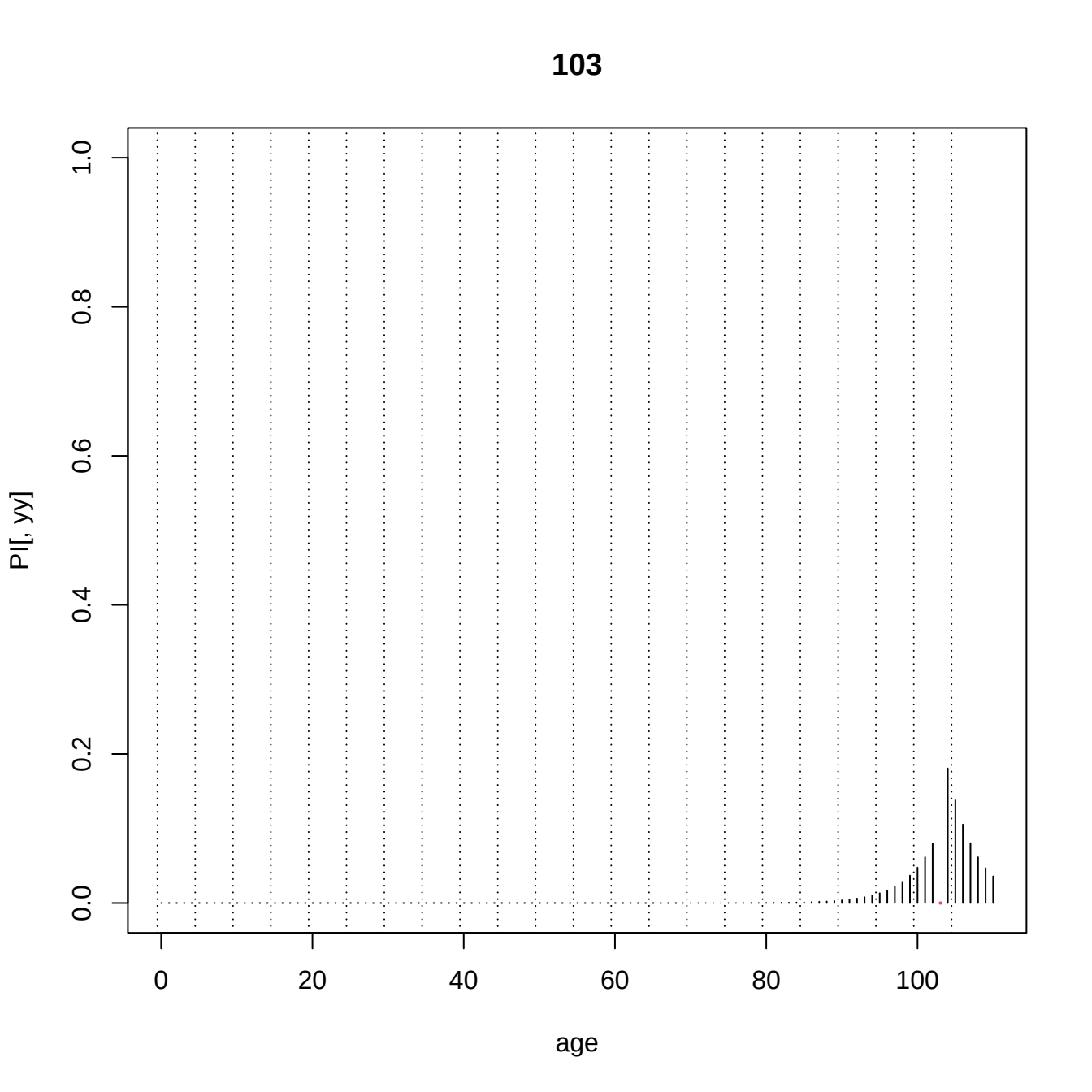
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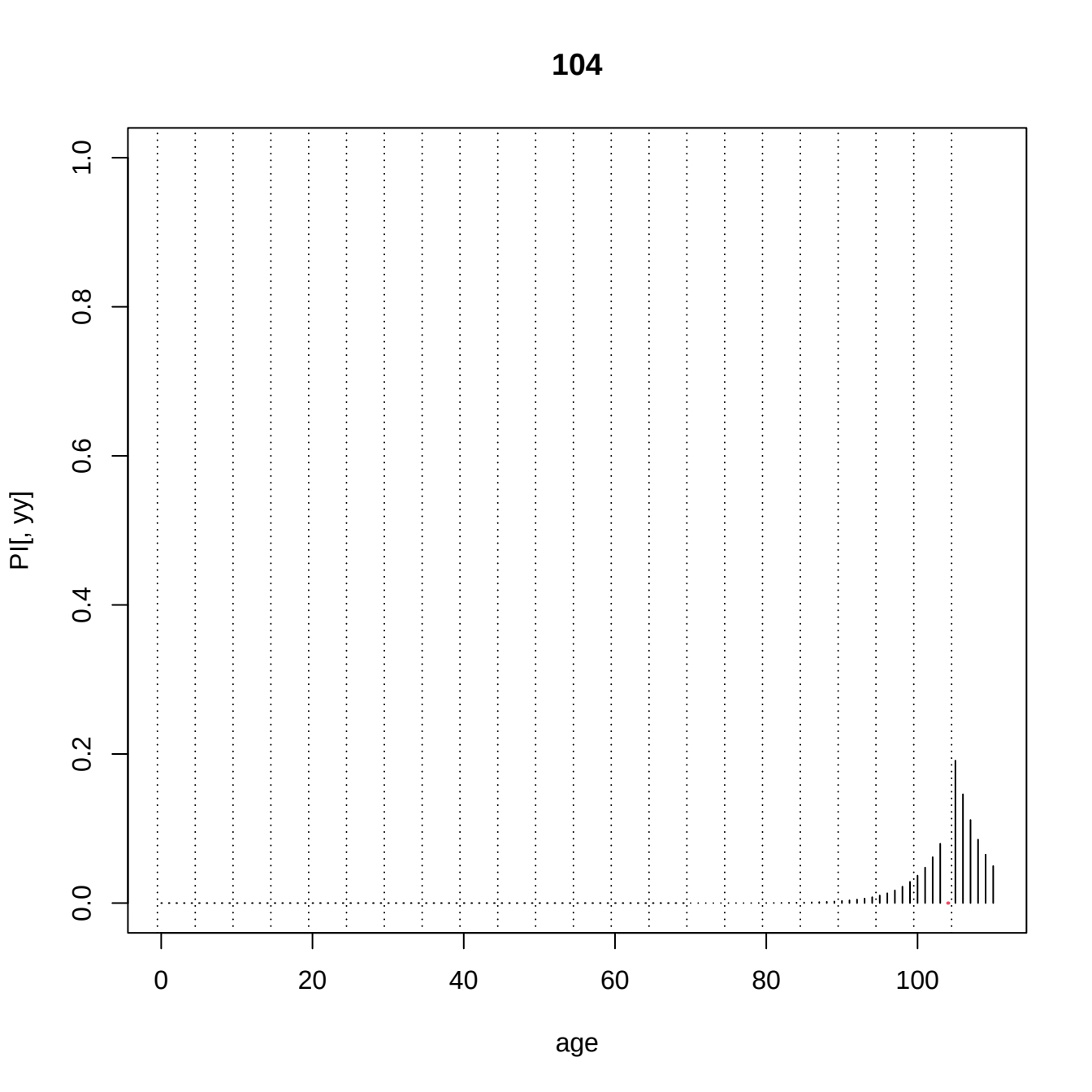
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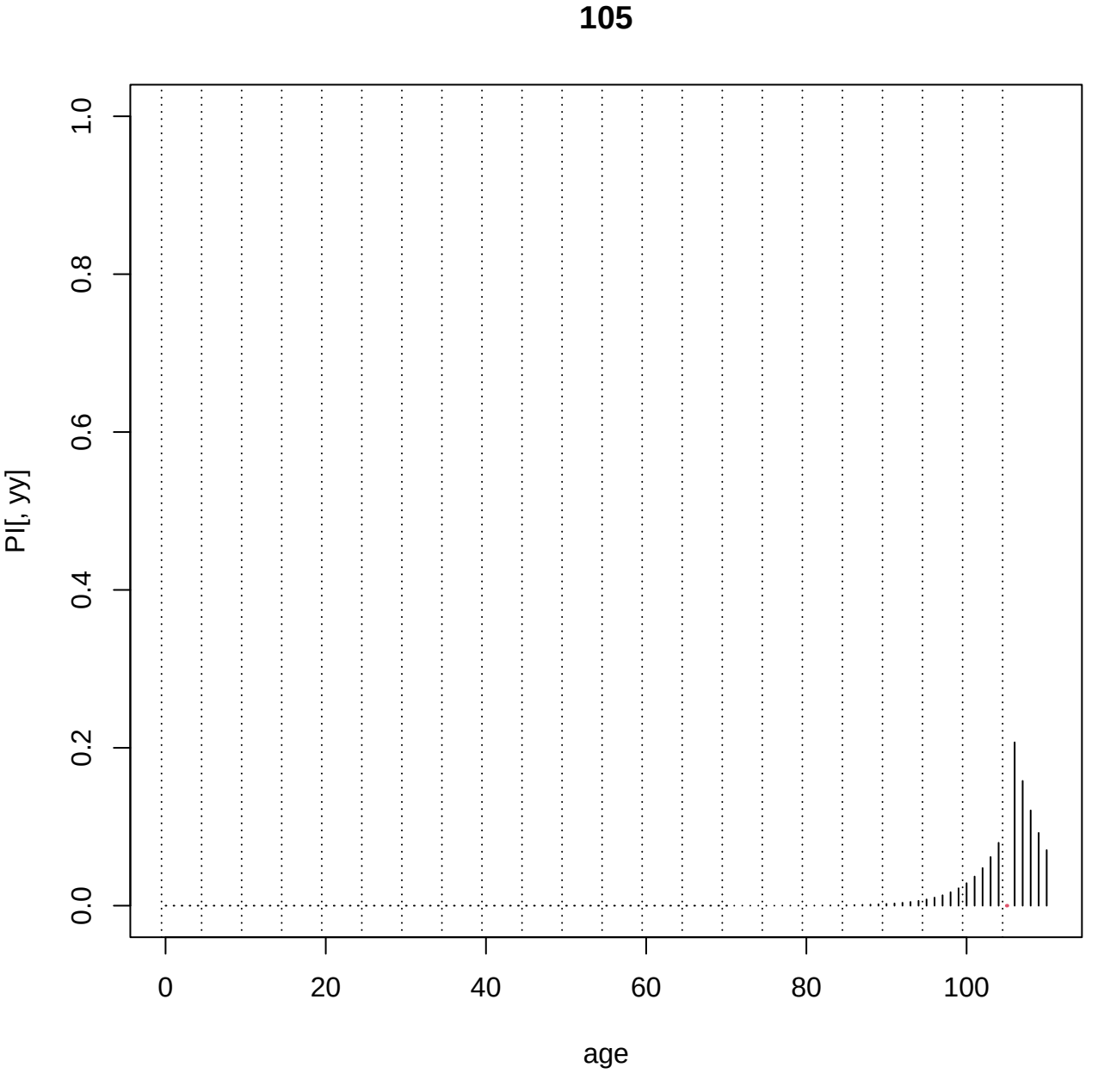
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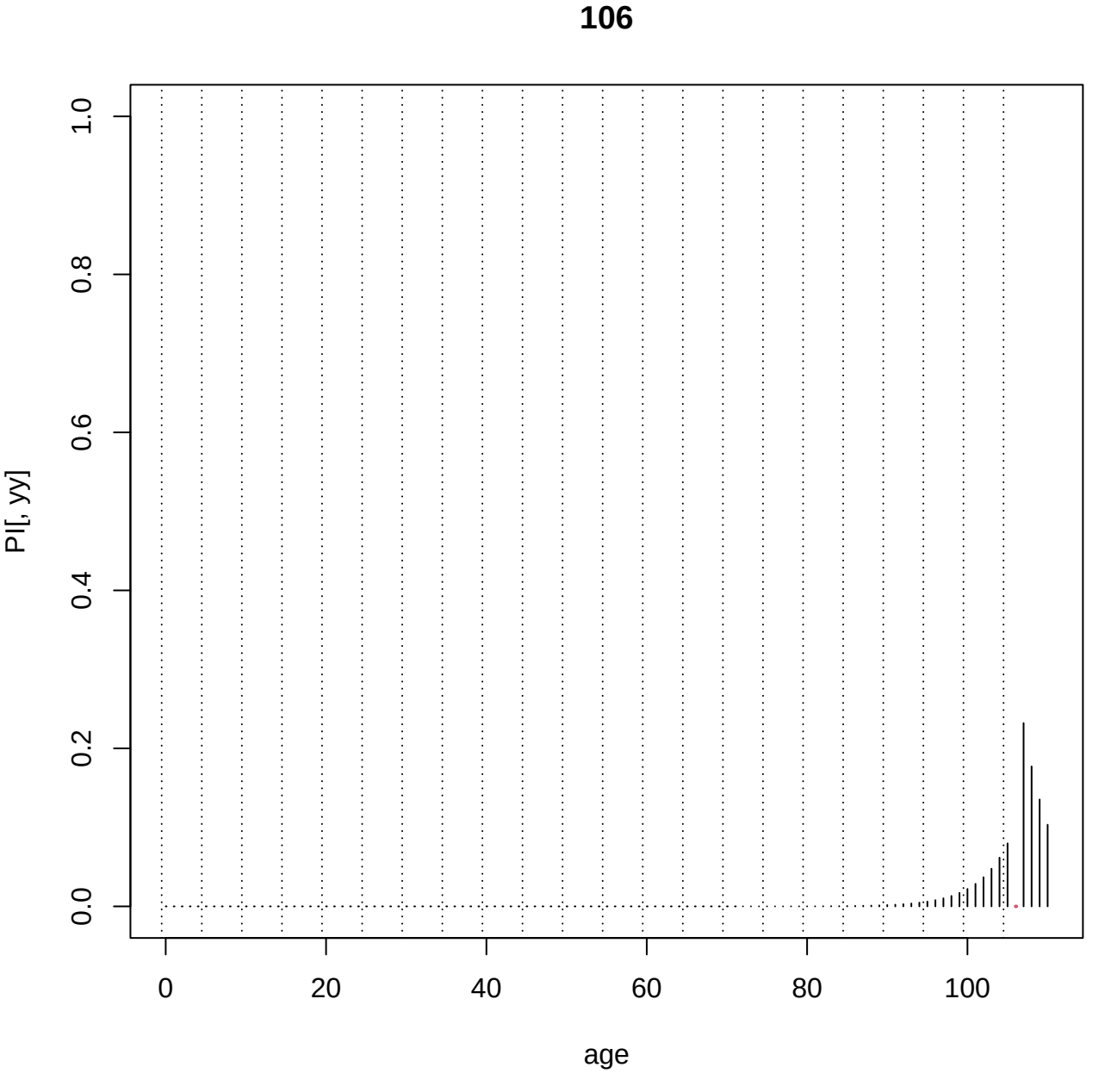
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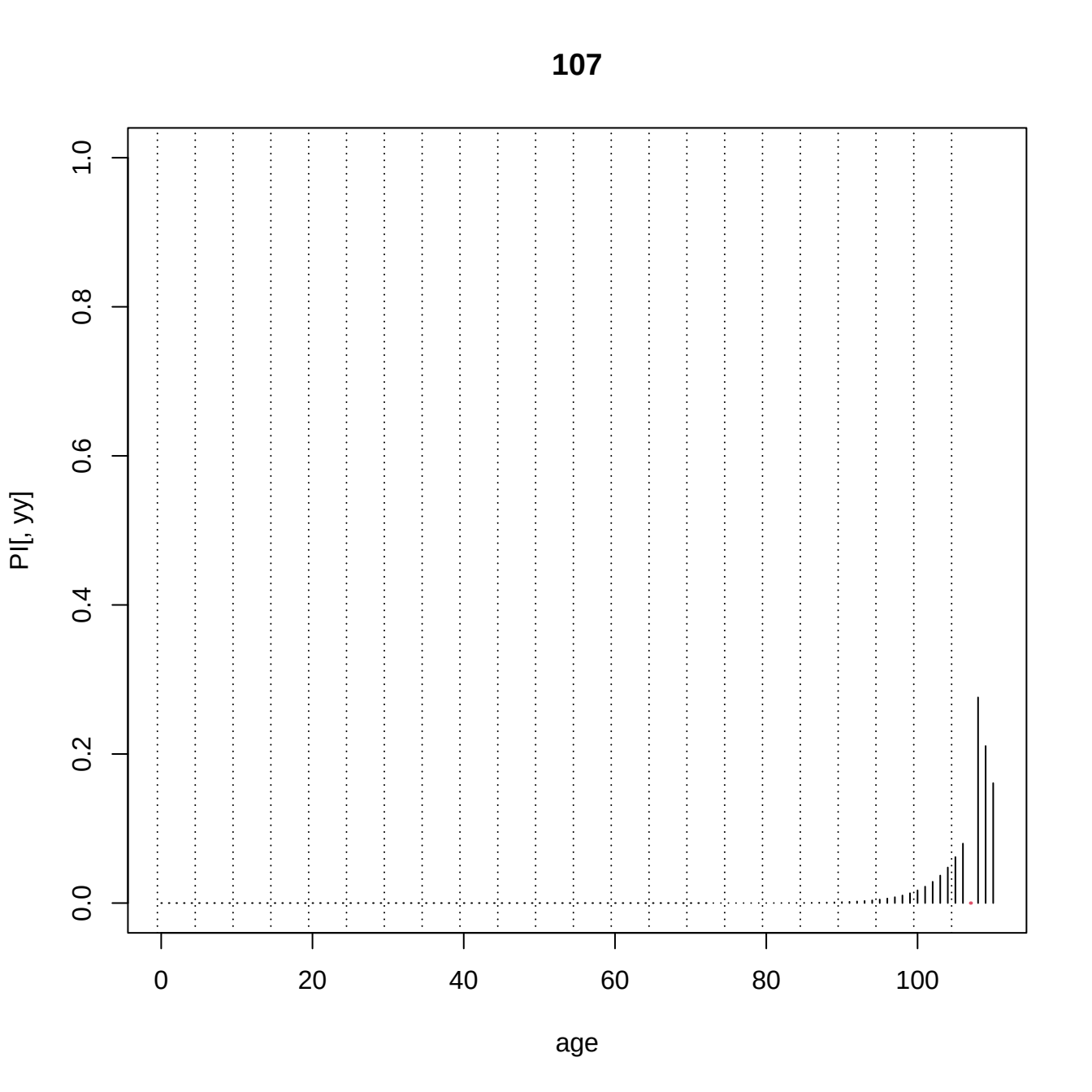
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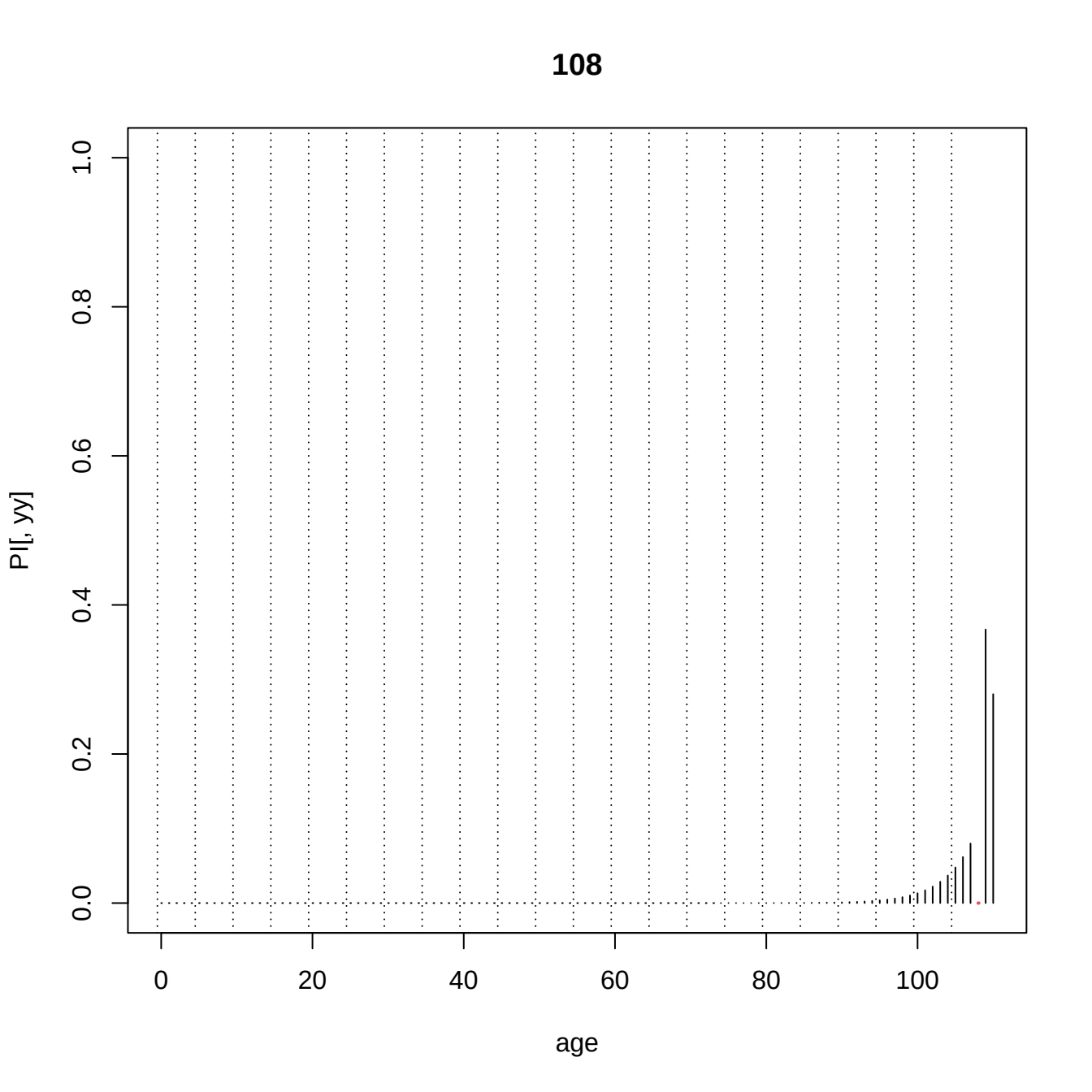
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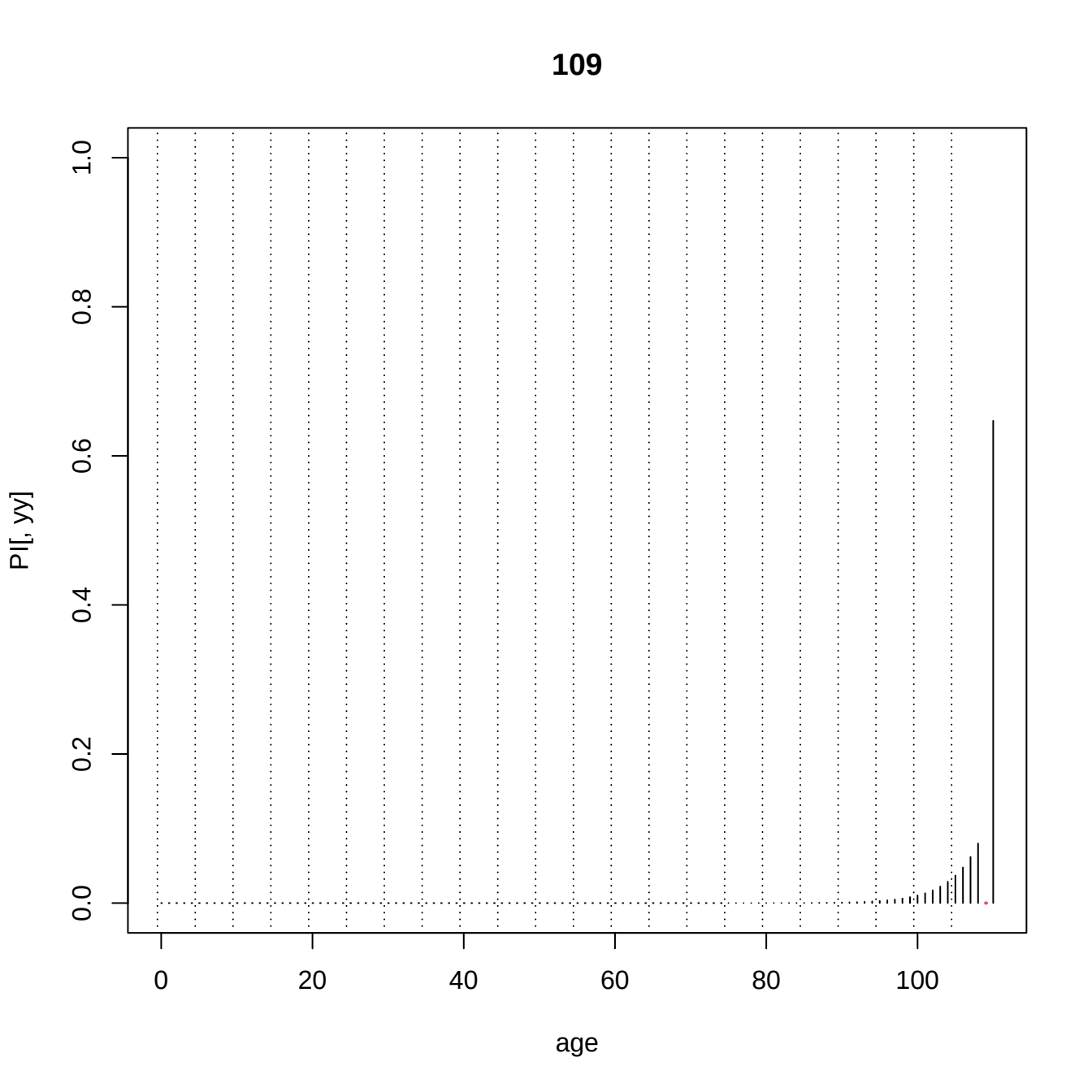
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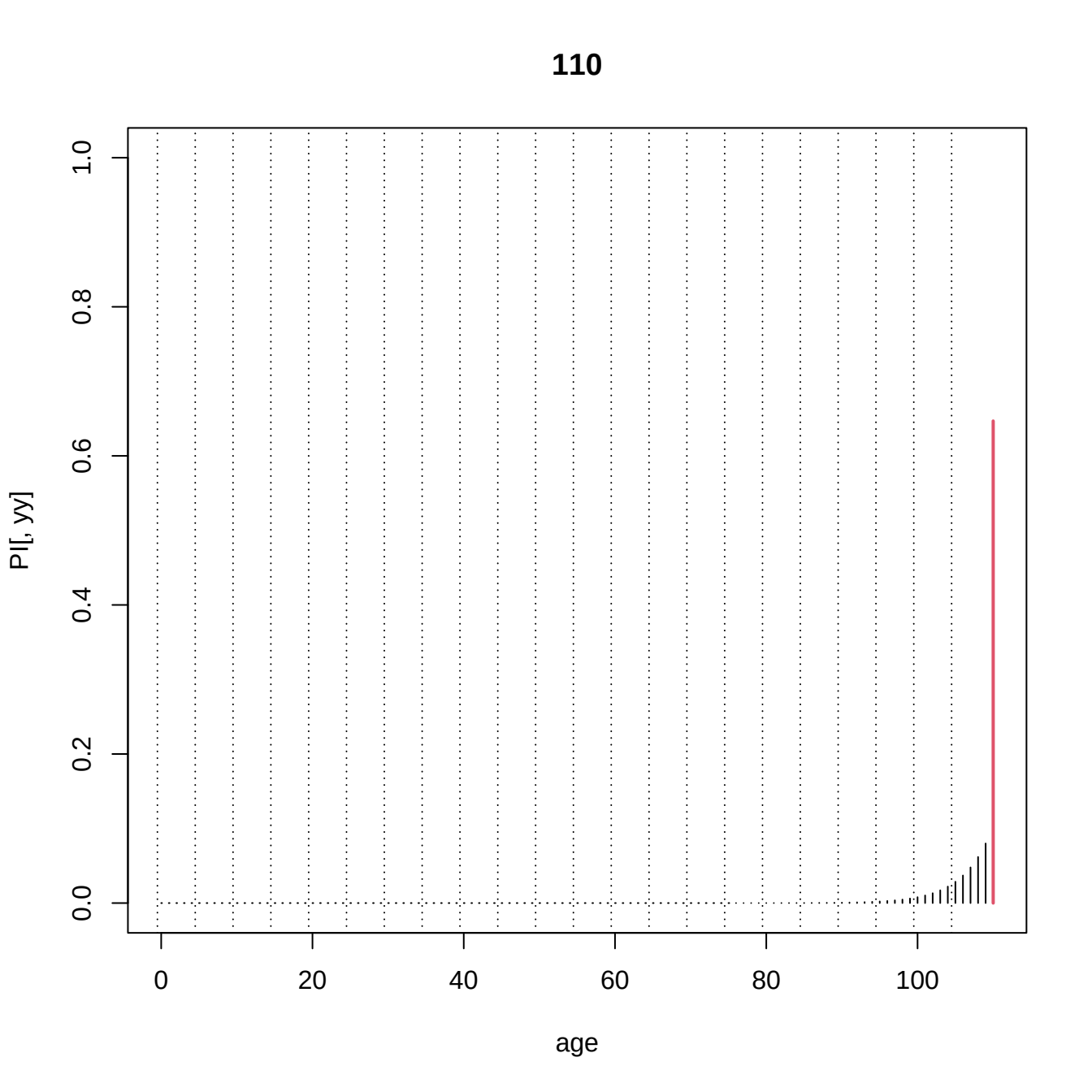
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