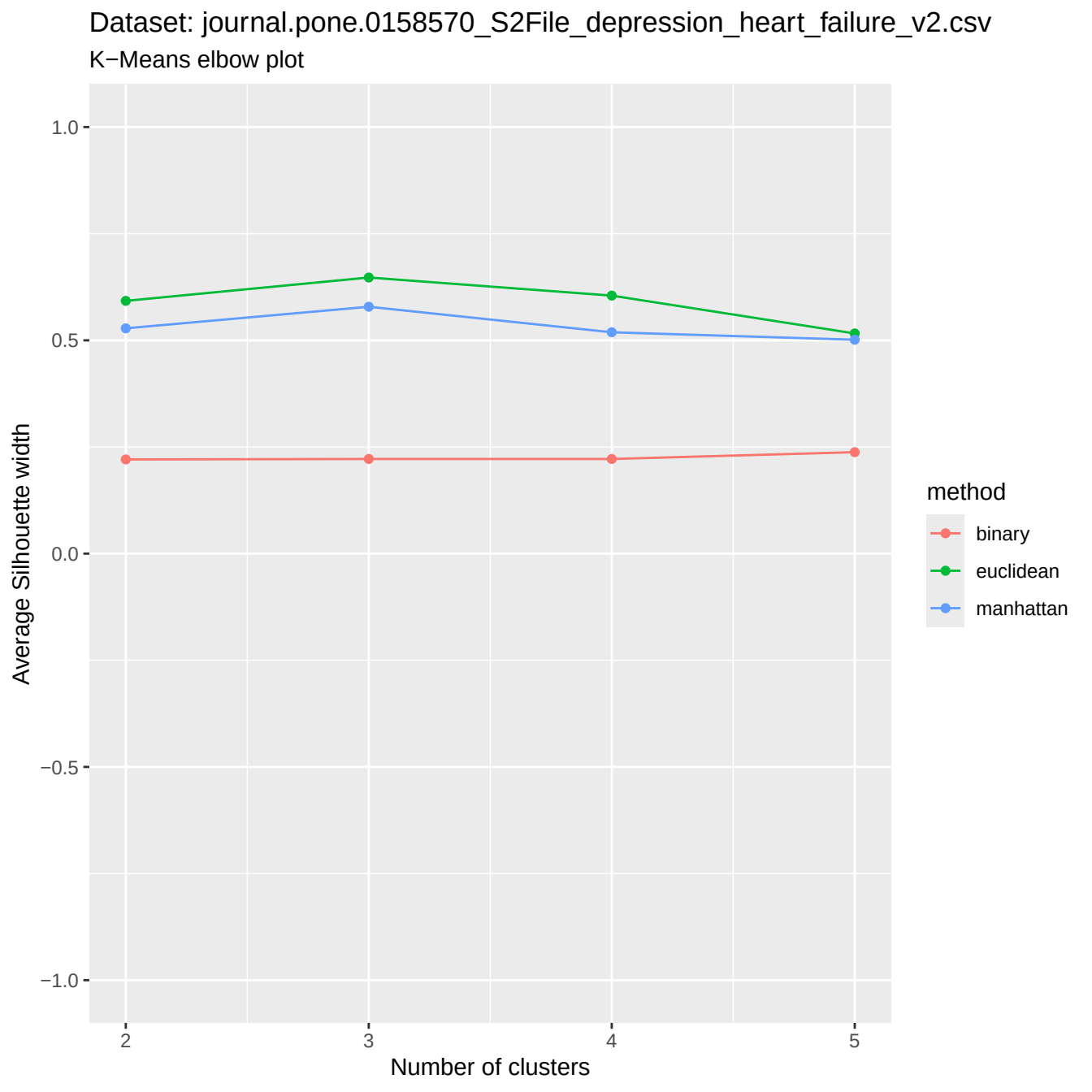
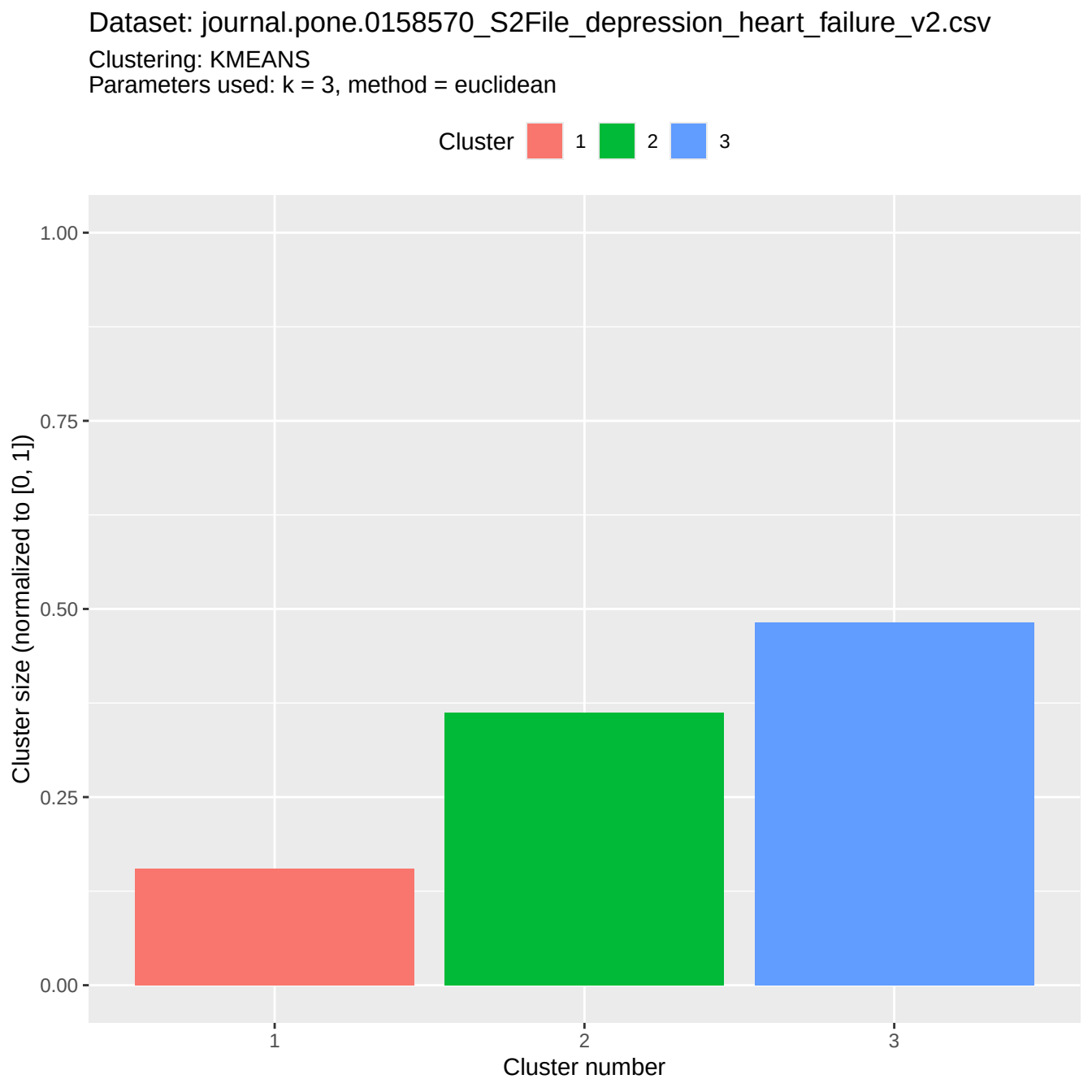
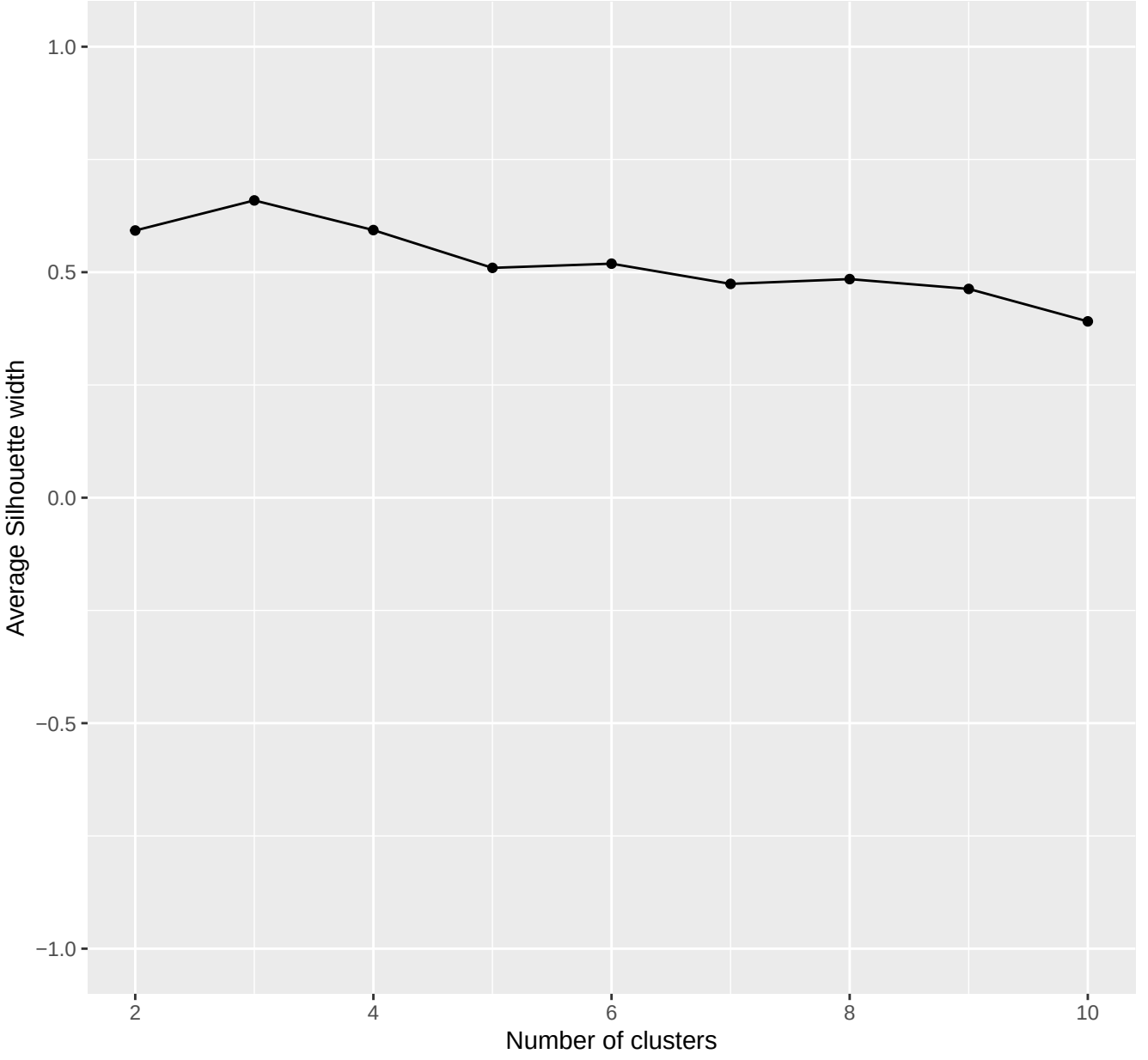
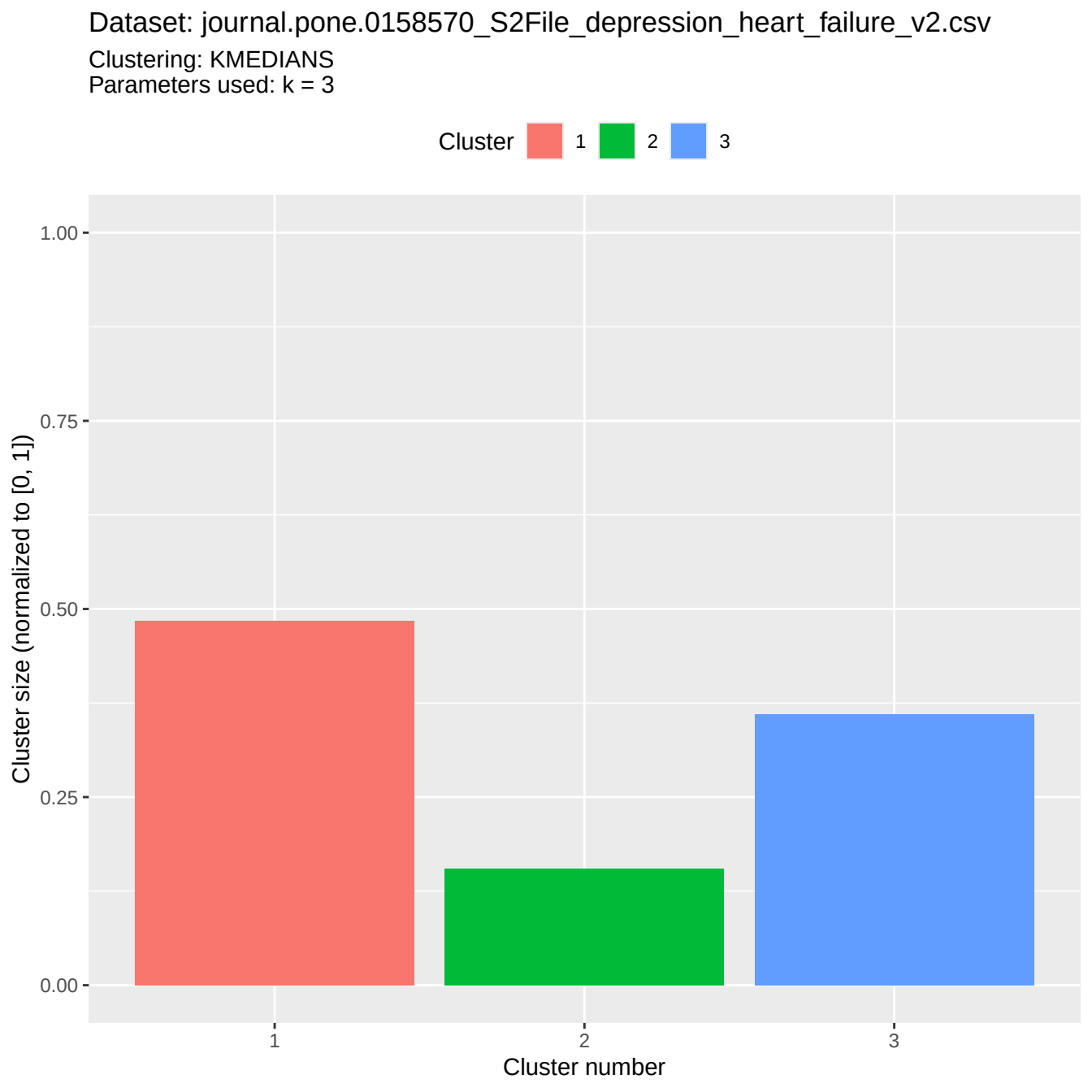

Dataset: journal.pone.0158570_S2File_depression_heart_failure_v2.csv
K−Means elbow plot
Average Silhouette width
1.0
0.5
0.0
−0.5
−1.0
2
3
4
5
Number of clusters
method
binary
euclidean
manhattan

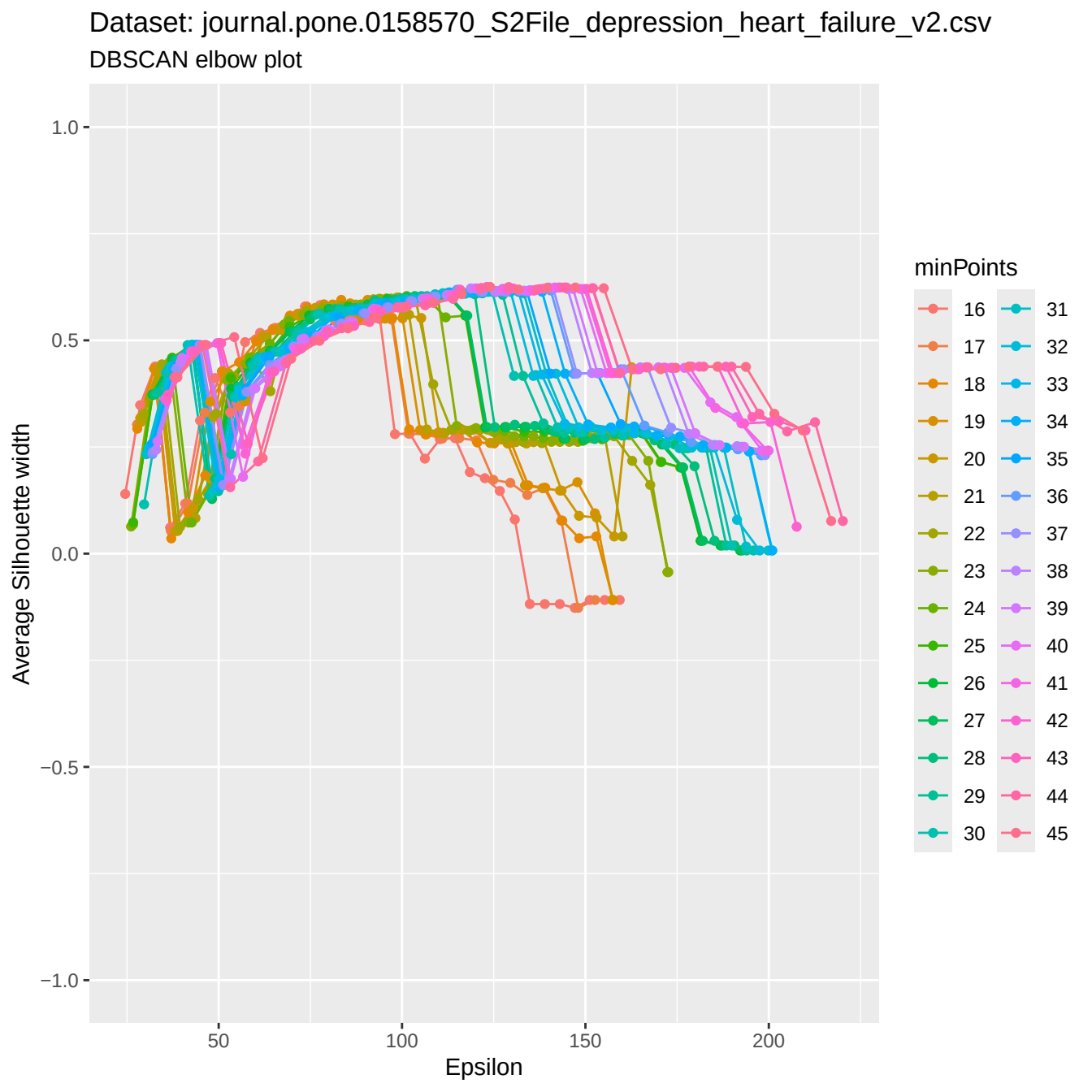

Dataset: journal.pone.0158570_S2File_depression_heart_failure_v2.csv
Clustering: KMEANS
Parameters used: k = 3, method = euclidean
Cluster 1 2 3
1.00
0.75
0.50
0.25
0.00
Cluster size (normalized to [0, 1])
1
2
3
Cluster number

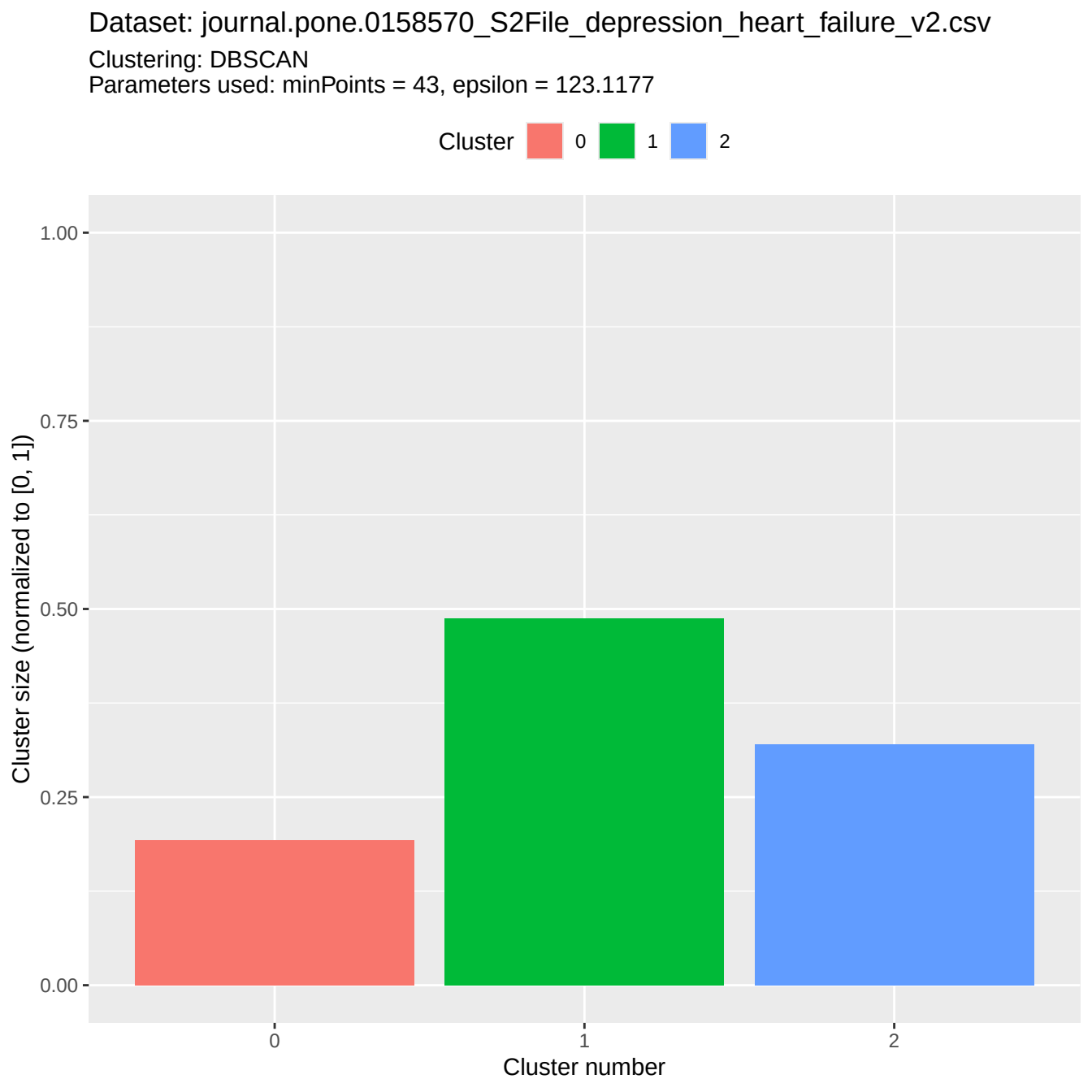
Dataset: journal.pone.0158570_S2File_depression_heart_failure_v2.csv

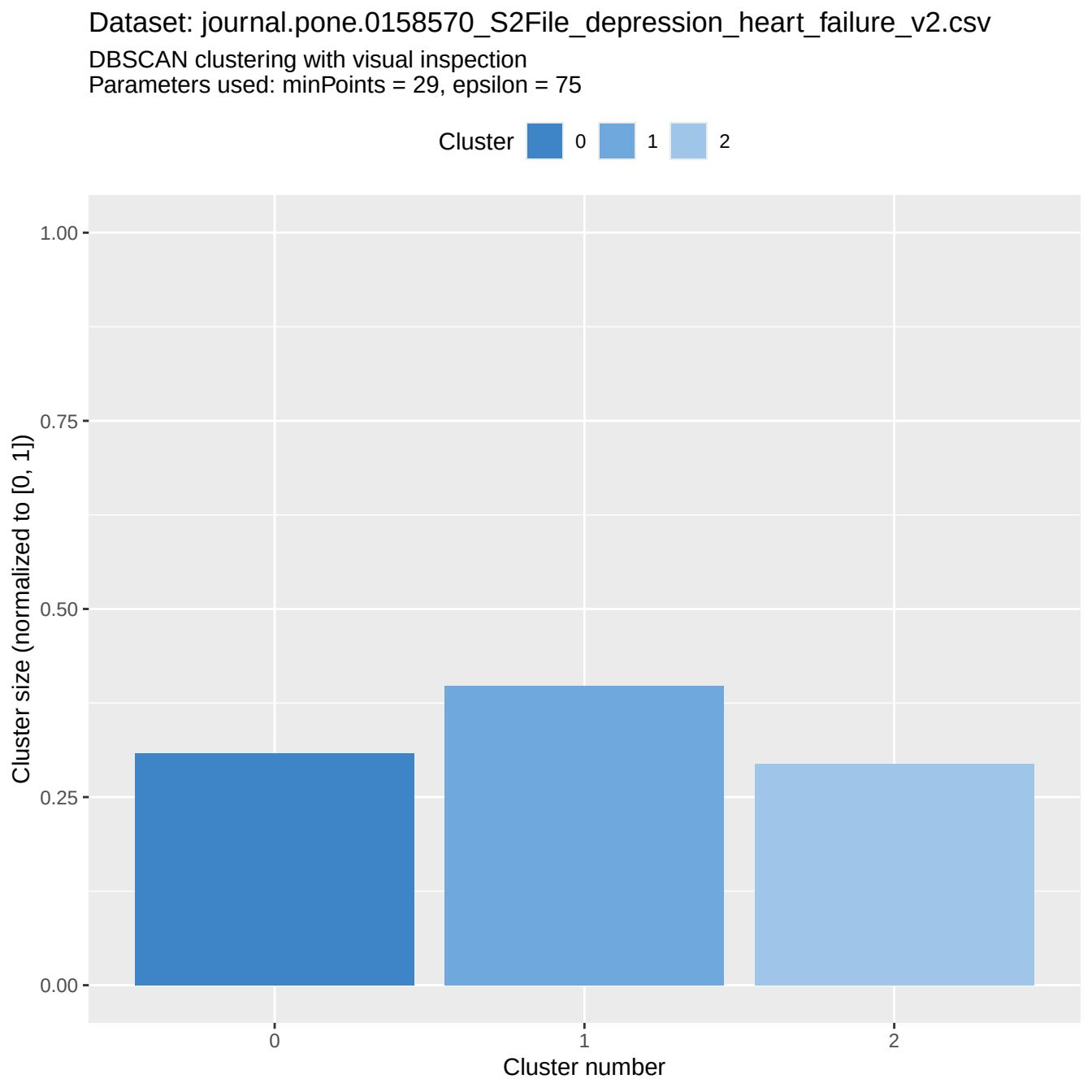
K−Medians elbow plot




Dataset: journal.pone.0158570_S2File_depression_heart_failure_v2.csv
Clustering: KMEDIANS
Parameters used: k = 3
Cluster 1 2 3
1.00
0.75
0.50
0.25
0.00
Cluster size (normalized to [0, 1])
1
2
3
Cluster number

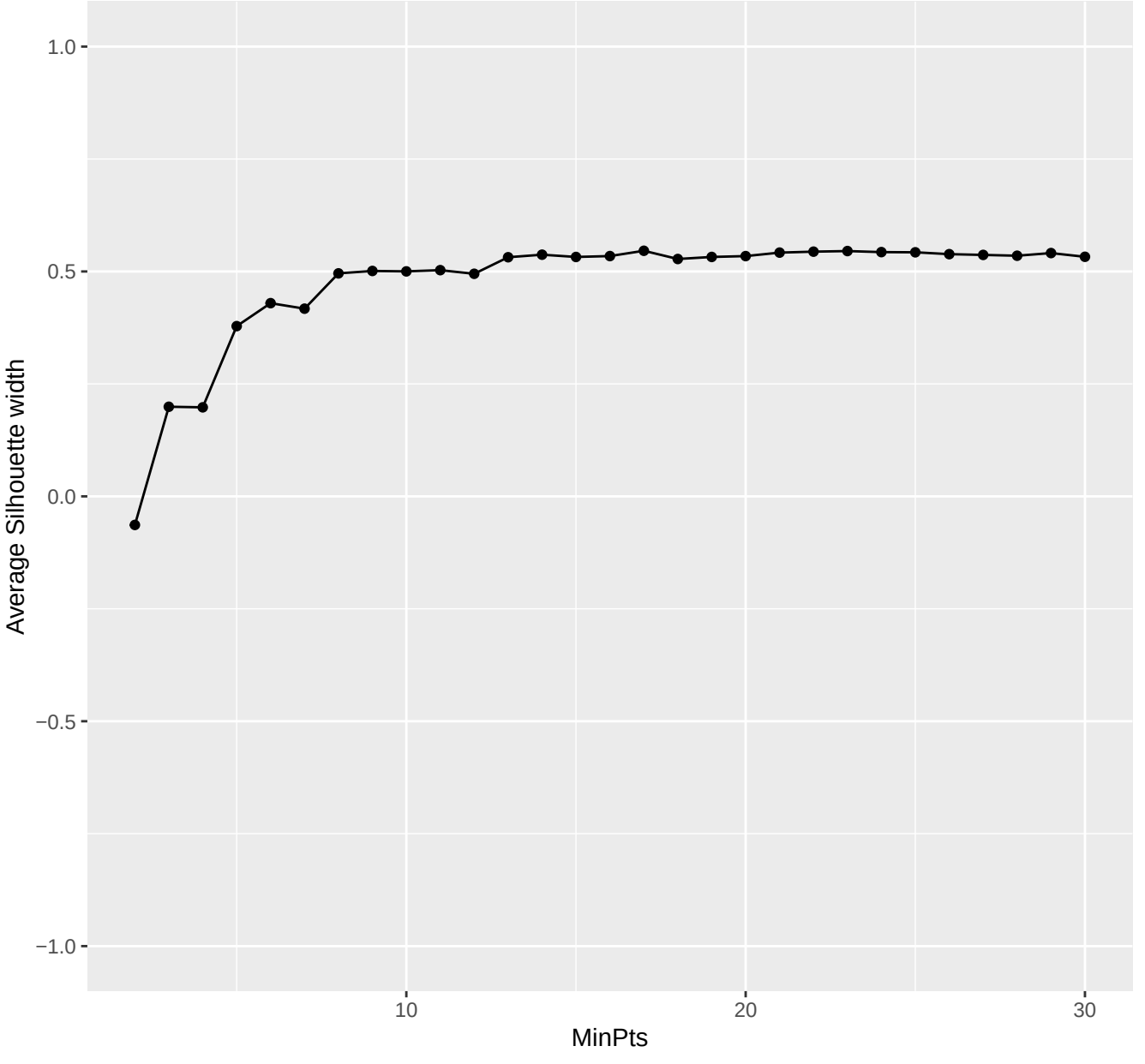

Dataset: journal.pone.0158570_S2File_depression_heart_failure_v2.csv
DBSCAN elbow plot
Average Silhouette width
1.0
0.5
0.0
−0.5
−1.0
50
100
150
200
Epsilon
minPoints
16
17
18
19
20
21
22
23
24
25
26
27
28
29
30
31
32
33
34
35
36
37
38
39
40
41
42
43
44
45

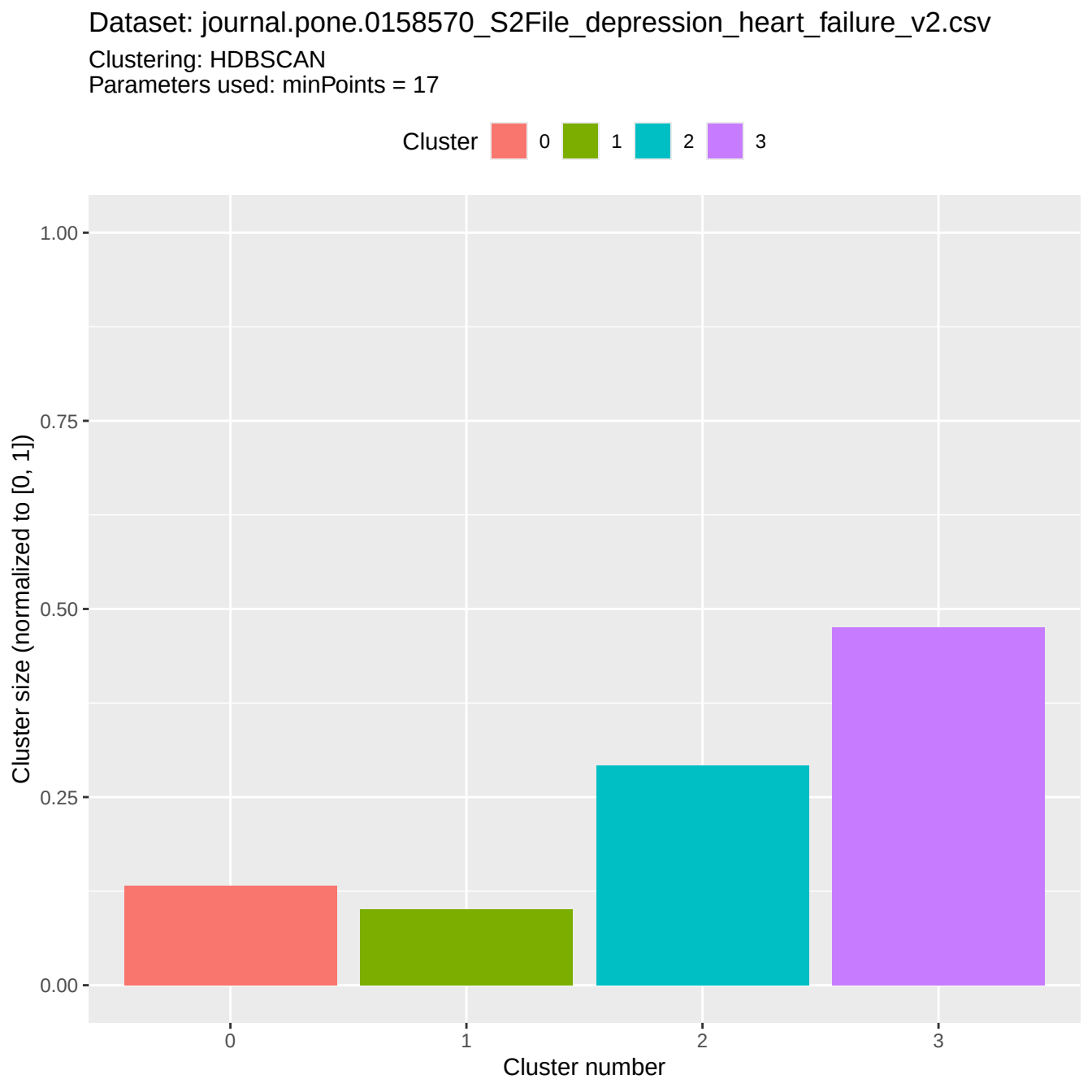

Dataset: journal.pone.0158570_S2File_depression_heart_failure_v2.csv
Clustering: DBSCAN
Parameters used: minPoints = 43, epsilon = 123.1177
Cluster
0
1
2
1.00
0.75
0.50
0.25
0.00
Cluster size (normalized to [0, 1])
0
1
2
Cluster number

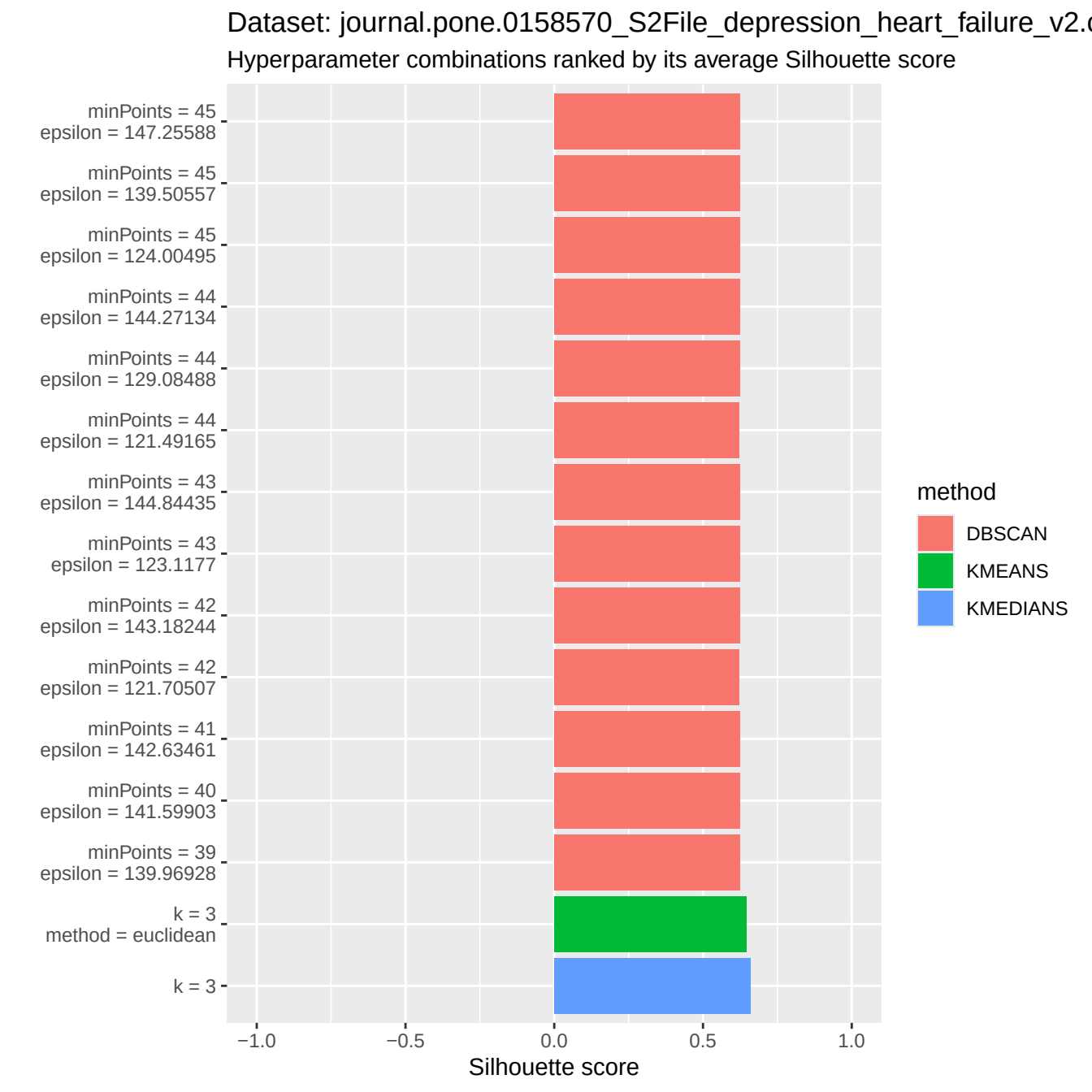

Dataset: journal.pone.0158570_S2File_depression_heart_failure_v2.csv
DBSCAN clustering with visual inspection
Parameters used: minPoints = 29, epsilon = 75
Cluster
0
1
2
1.00
0.75
0.50
0.25
0.00
Cluster size (normalized to [0, 1])
0
1
2
Cluster number

Dataset: journal.pone.0158570_S2File_depression_heart_failure_v2.csv

HDBSCAN elbow plot




Dataset: journal.pone.0158570_S2File_depression_heart_failure_v2.csv
Clustering: HDBSCAN
Parameters used: minPoints = 17
Cluster
0
1
2
3
1.00
0.75
0.50
0.25
0.00
Cluster size (normalized to [0, 1])
0
1
2
3
Cluster number


Dataset: journal.pone.0158570_S2File_depression_heart_failure_v2.c
Hyperparameter combinations ranked by its average Silhouette score
minPoints = 45
epsilon = 147.25588
minPoints = 45
epsilon = 139.50557
minPoints = 45
epsilon = 124.00495
minPoints = 44
epsilon = 144.27134
minPoints = 44
epsilon = 129.08488
minPoints = 44
epsilon = 121.49165
minPoints = 43
epsilon = 144.84435
minPoints = 43
epsilon = 123.1177
minPoints = 42
epsilon = 143.18244
minPoints = 42
epsilon = 121.70507
minPoints = 41
epsilon = 142.63461
minPoints = 40
epsilon = 141.59903
minPoints = 39
epsilon = 139.96928
k = 3
method = euclidean
k = 3
−1.0
−0.5
0.0
0.5
1.0
Silhouette score
method
DBSCAN
KMEANS
KMEDIANS

Dataset: journal.pone.0158570_S2File_depression_heart_failure_v2.csv

Algorithms ranked by their average Silhouette score