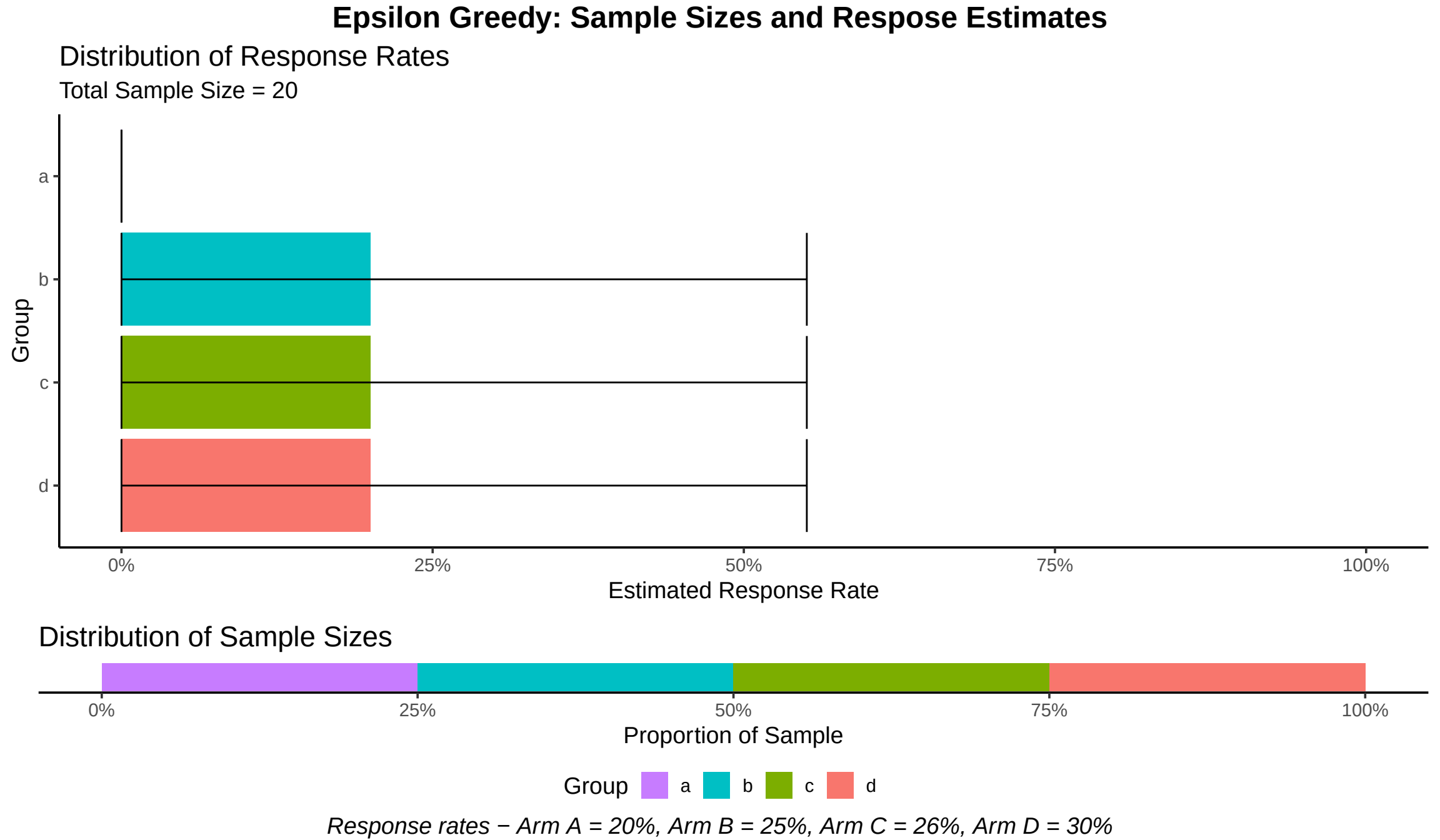
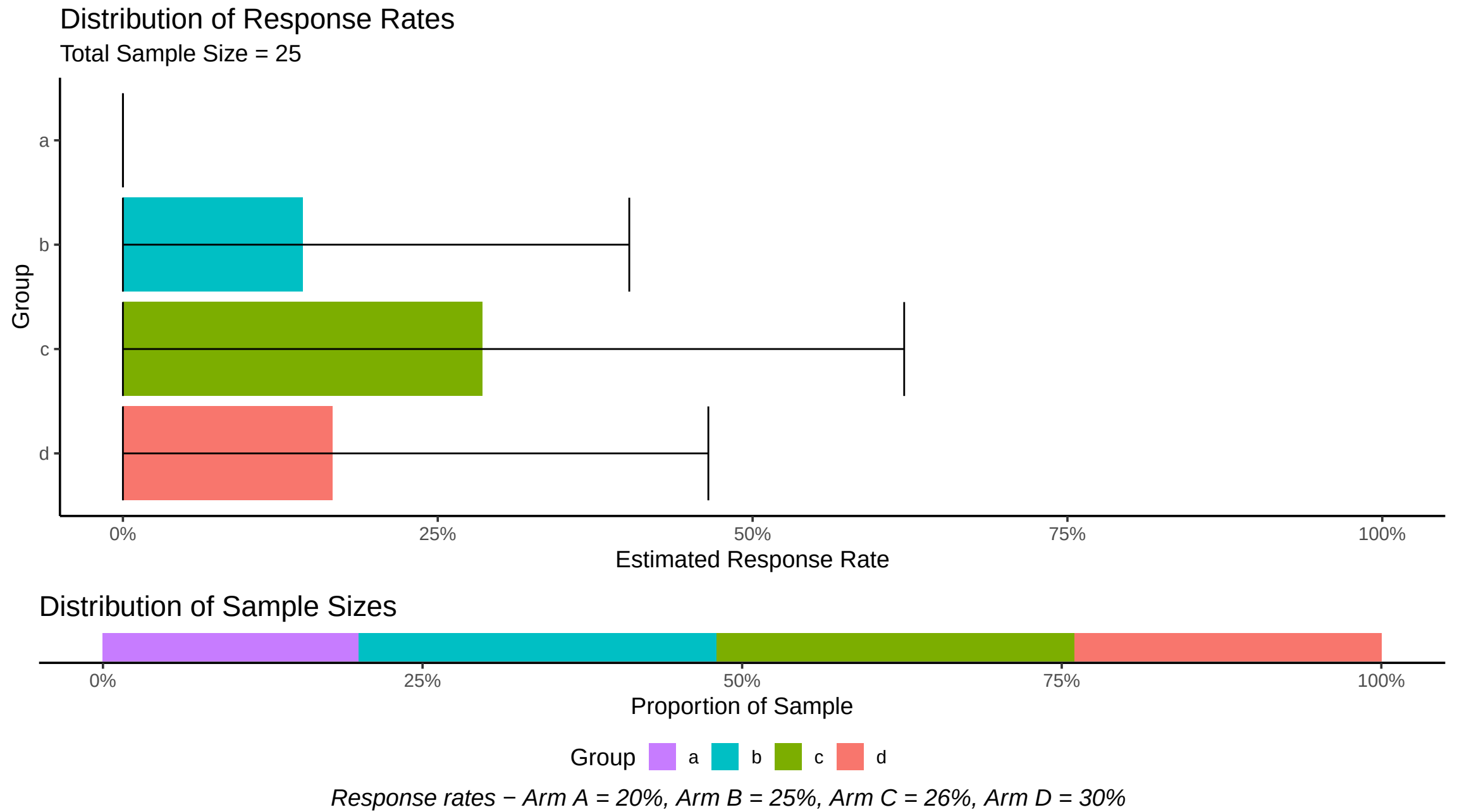
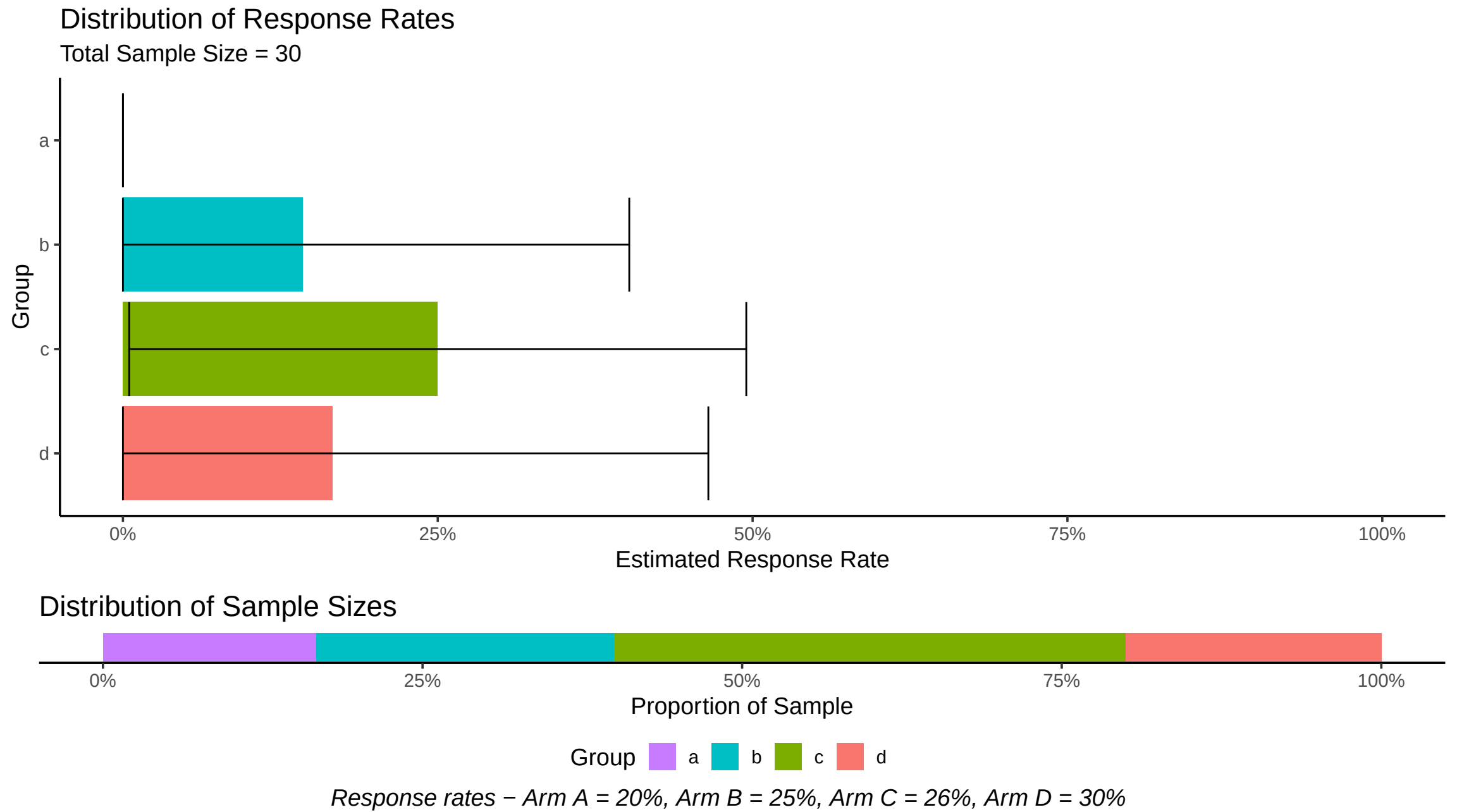

Epsilon Greedy: Sample Sizes and Respose Estimates
Distribution of Response Rates
Total Sample Size = 20
Group
a
b
c
d
0%
25%
50%
75%
100%
Estimated Response Rate
Distribution of Sample Sizes
0%
25%
50%
75%
100%
Proportion of Sample
Group
a
b
c
d
Response rates − Arm A = 20%, Arm B = 25%, Arm C = 26%, Arm D = 30%

Epsilon Greedy: Sample Sizes and Respose Estimates



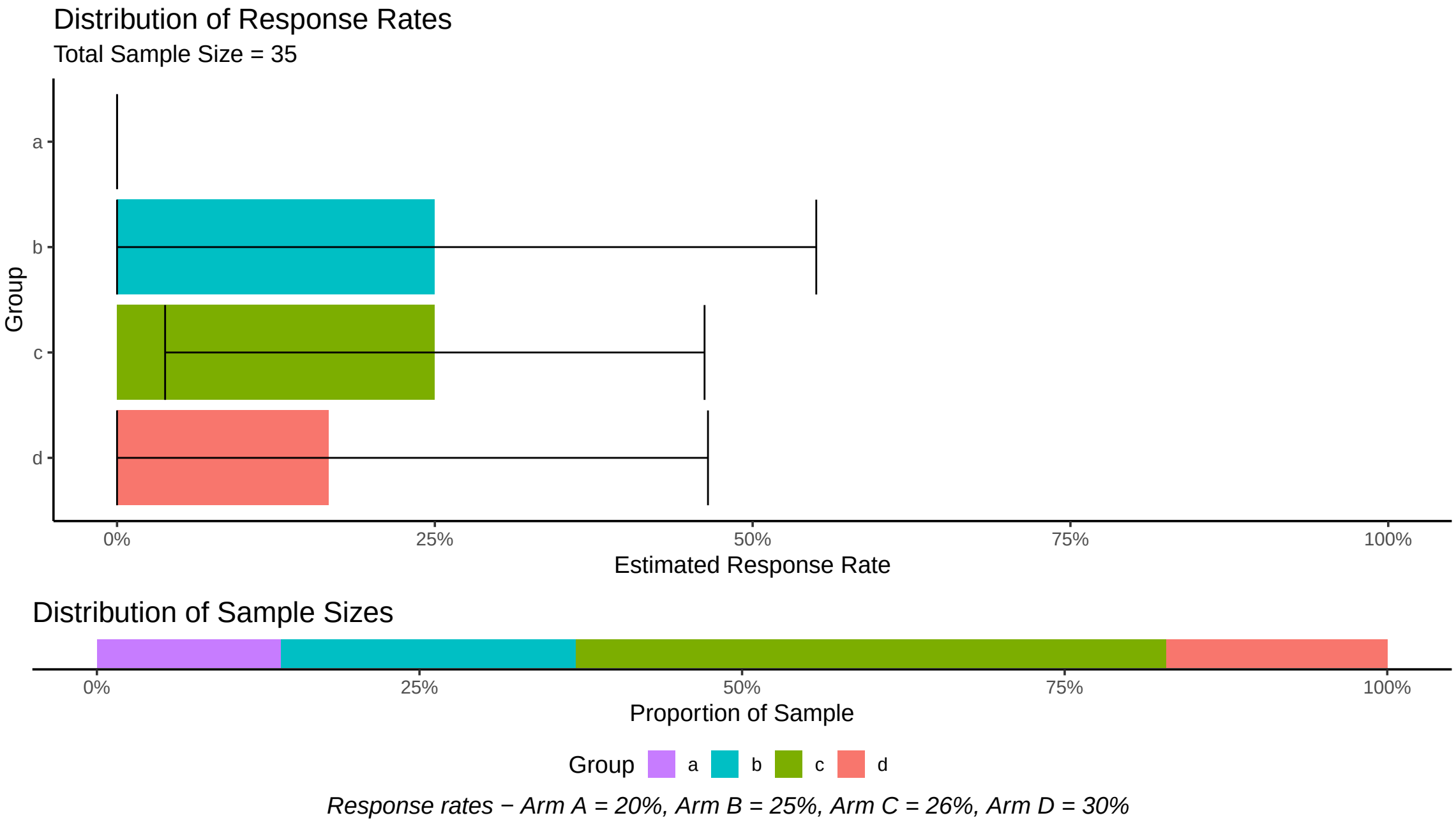
Response rates − Arm A = 20%, Arm B = 25%, Arm C = 26%, Arm D = 30%

Epsilon Greedy: Sample Sizes and Respose Estimates

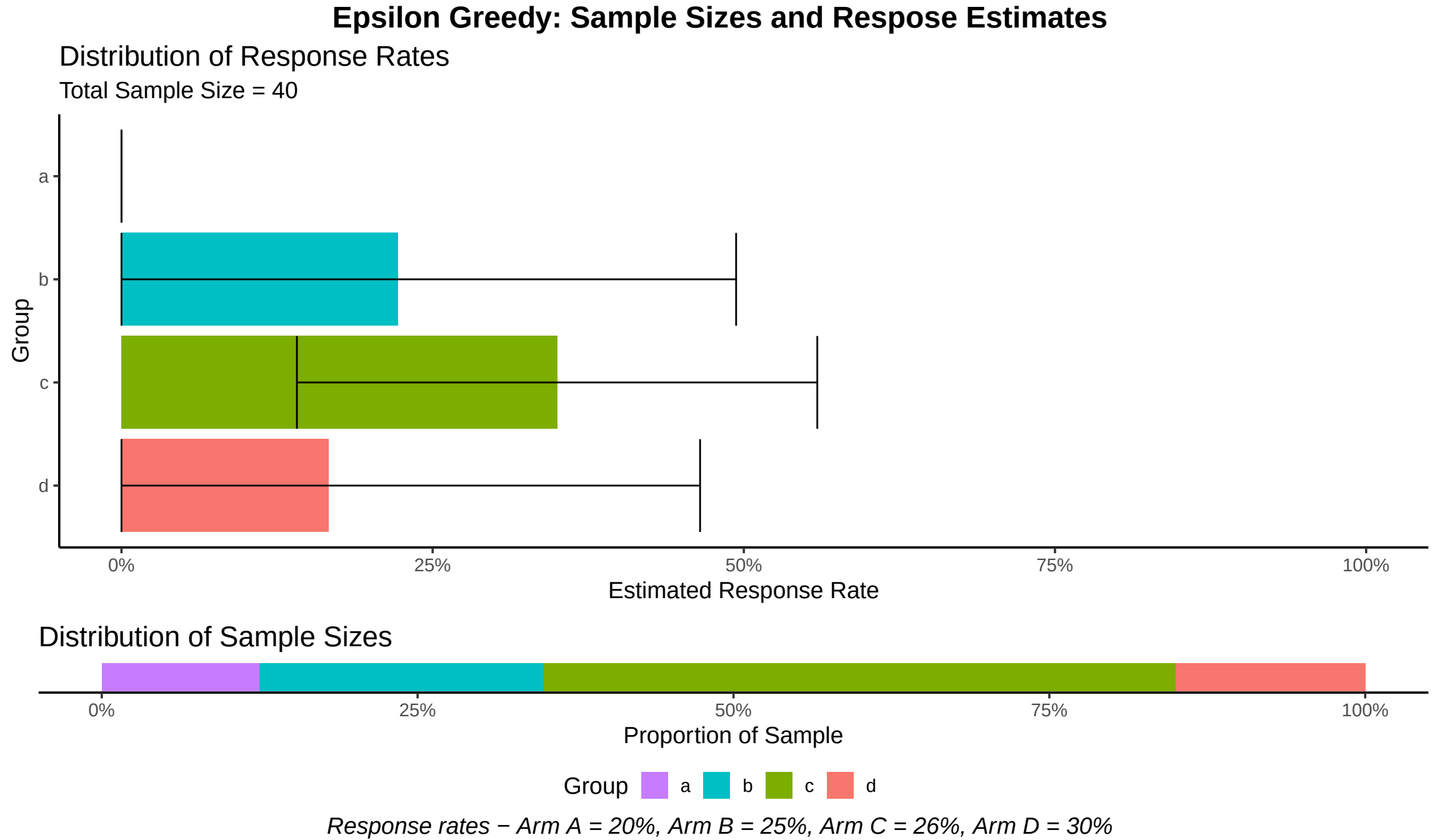


Response rates − Arm A = 20%, Arm B = 25%, Arm C = 26%, Arm D = 30%

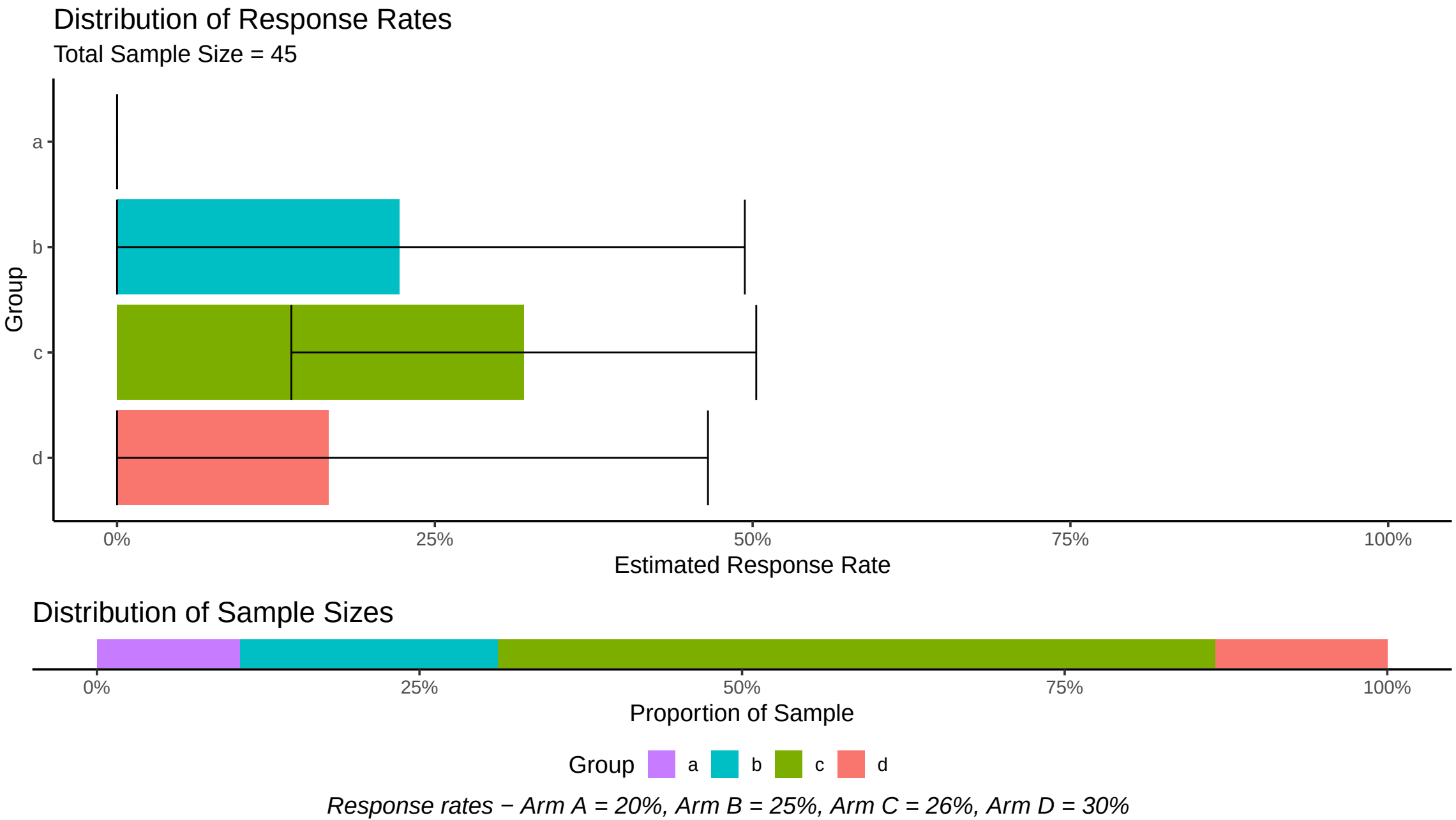
Epsilon Greedy: Sample Sizes and Respose Estimates



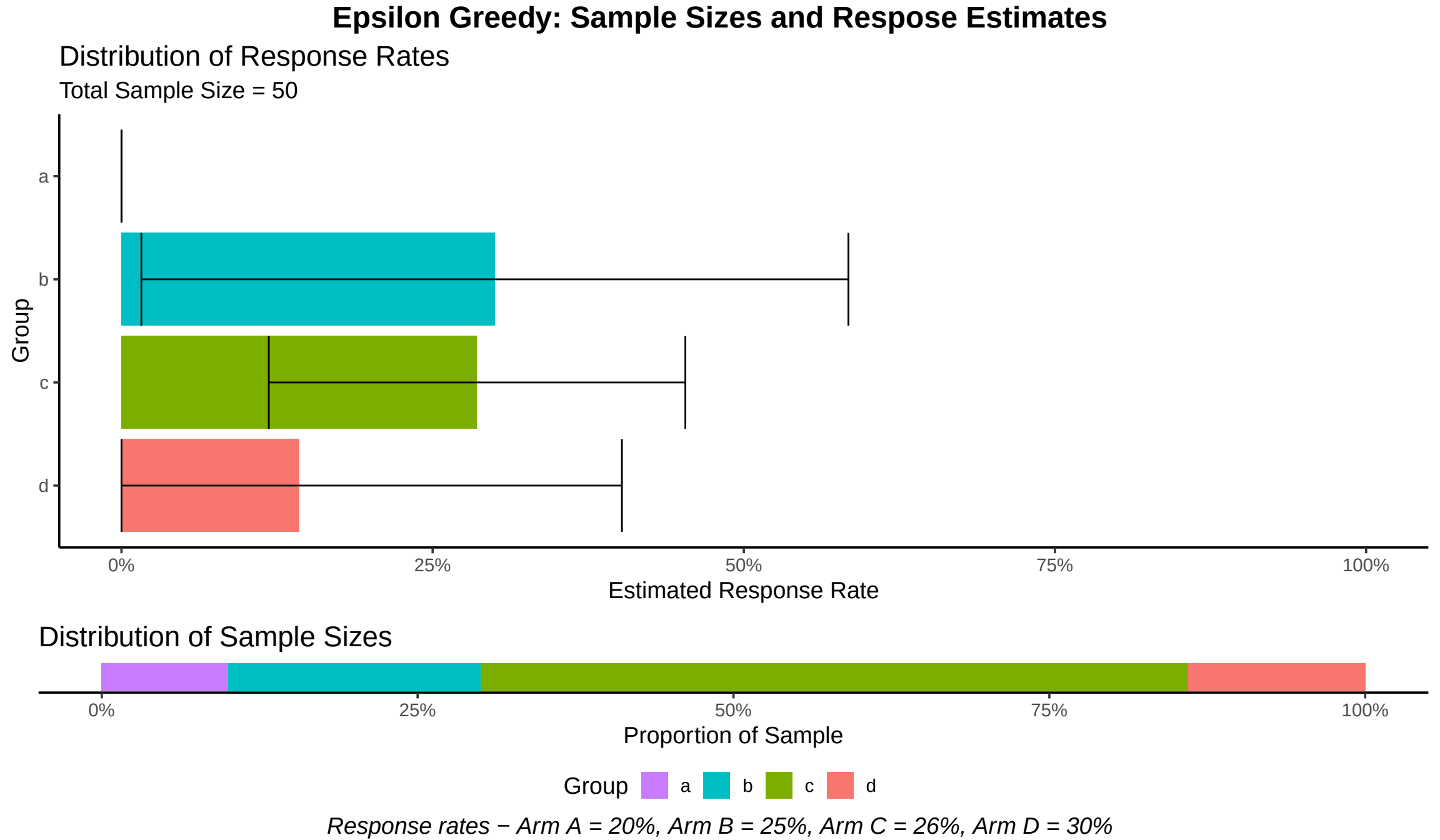
Response rates − Arm A = 20%, Arm B = 25%, Arm C = 26%, Arm D = 30%


Epsilon Greedy: Sample Sizes and Respose Estimates
Distribution of Response Rates
Total Sample Size = 40
Group
a
b
c
d
0%
25%
50%
75%
100%
Estimated Response Rate
Distribution of Sample Sizes
0%
25%
50%
75%
100%
Proportion of Sample
Group
a
b
c
d
Response rates − Arm A = 20%, Arm B = 25%, Arm C = 26%, Arm D = 30%

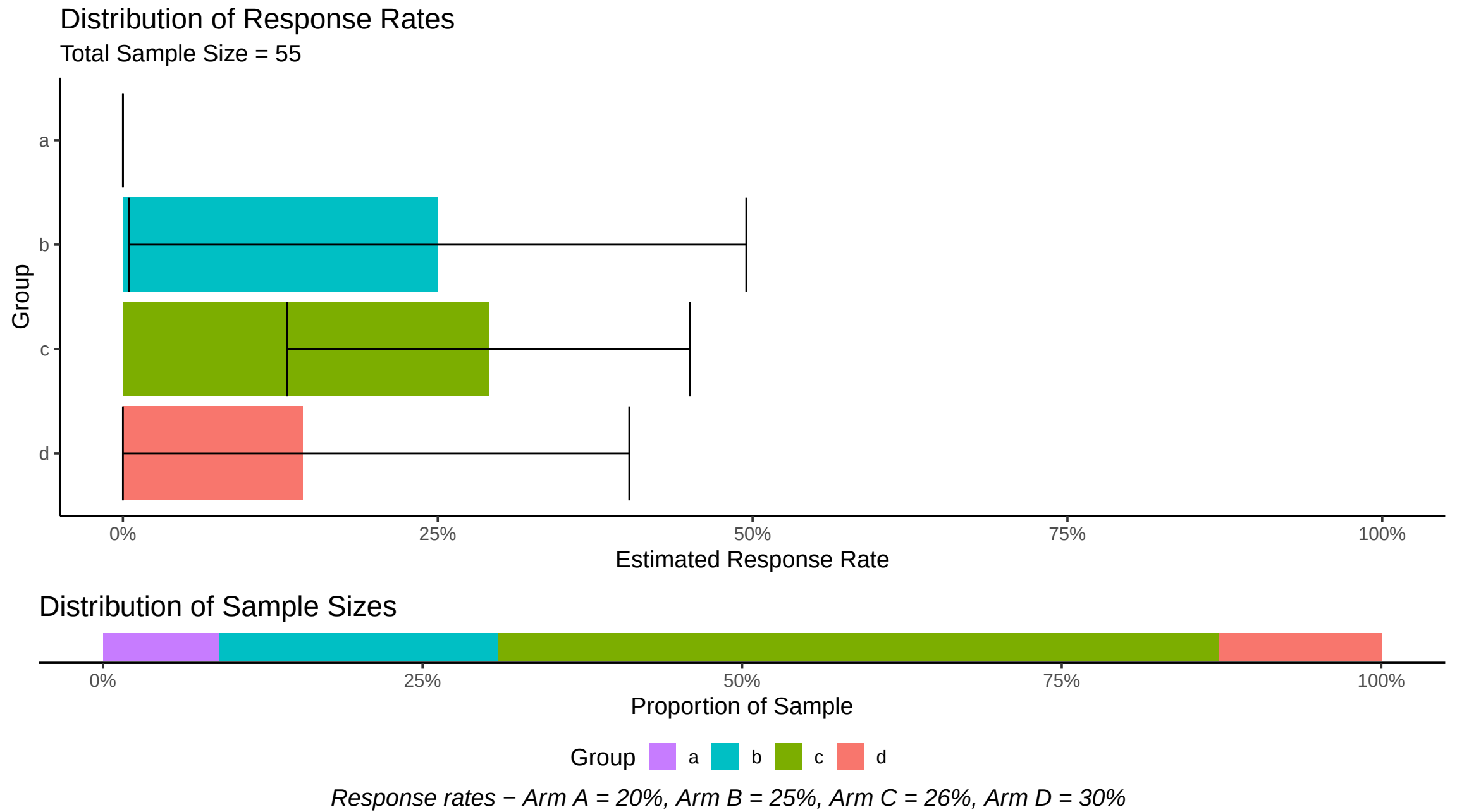
Epsilon Greedy: Sample Sizes and Respose Estimates



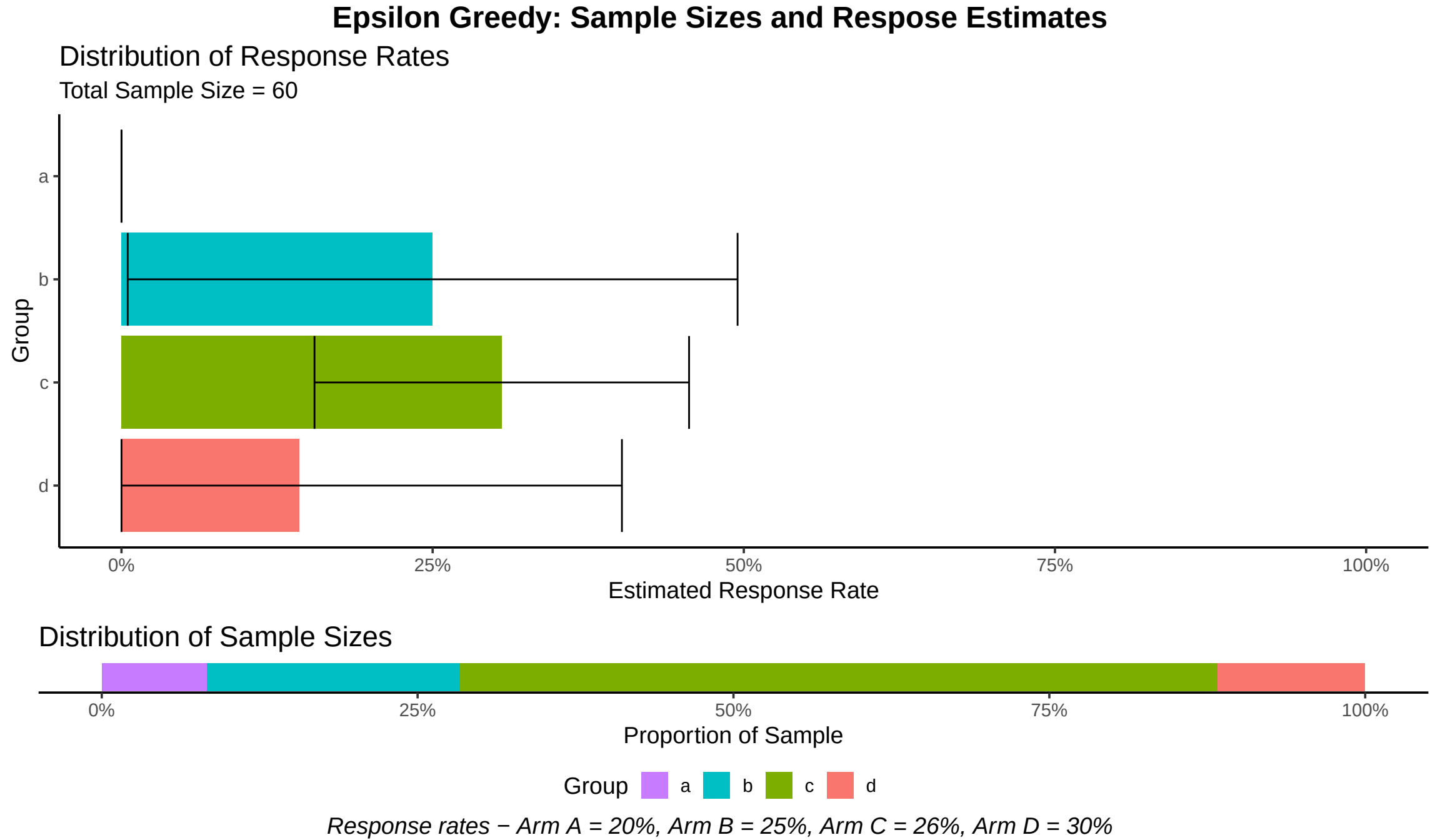
Response rates − Arm A = 20%, Arm B = 25%, Arm C = 26%, Arm D = 30%


Epsilon Greedy: Sample Sizes and Respose Estimates
Distribution of Response Rates
Total Sample Size = 50
Group
a
b
c
d
0%
25%
50%
75%
100%
Estimated Response Rate
Distribution of Sample Sizes
0%
25%
50%
75%
100%
Proportion of Sample
Group
a
b
c
d
Response rates − Arm A = 20%, Arm B = 25%, Arm C = 26%, Arm D = 30%

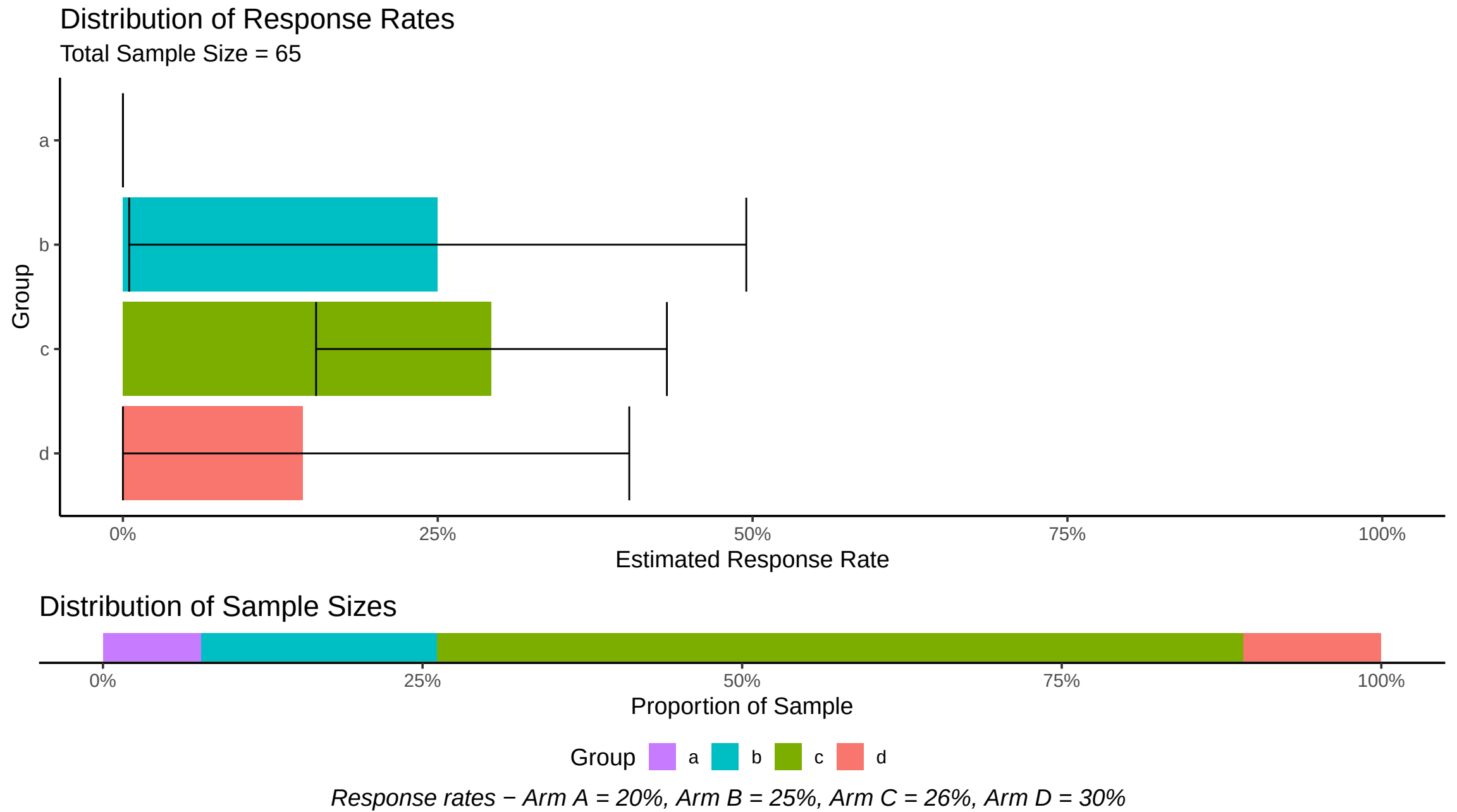
Epsilon Greedy: Sample Sizes and Respose Estimates



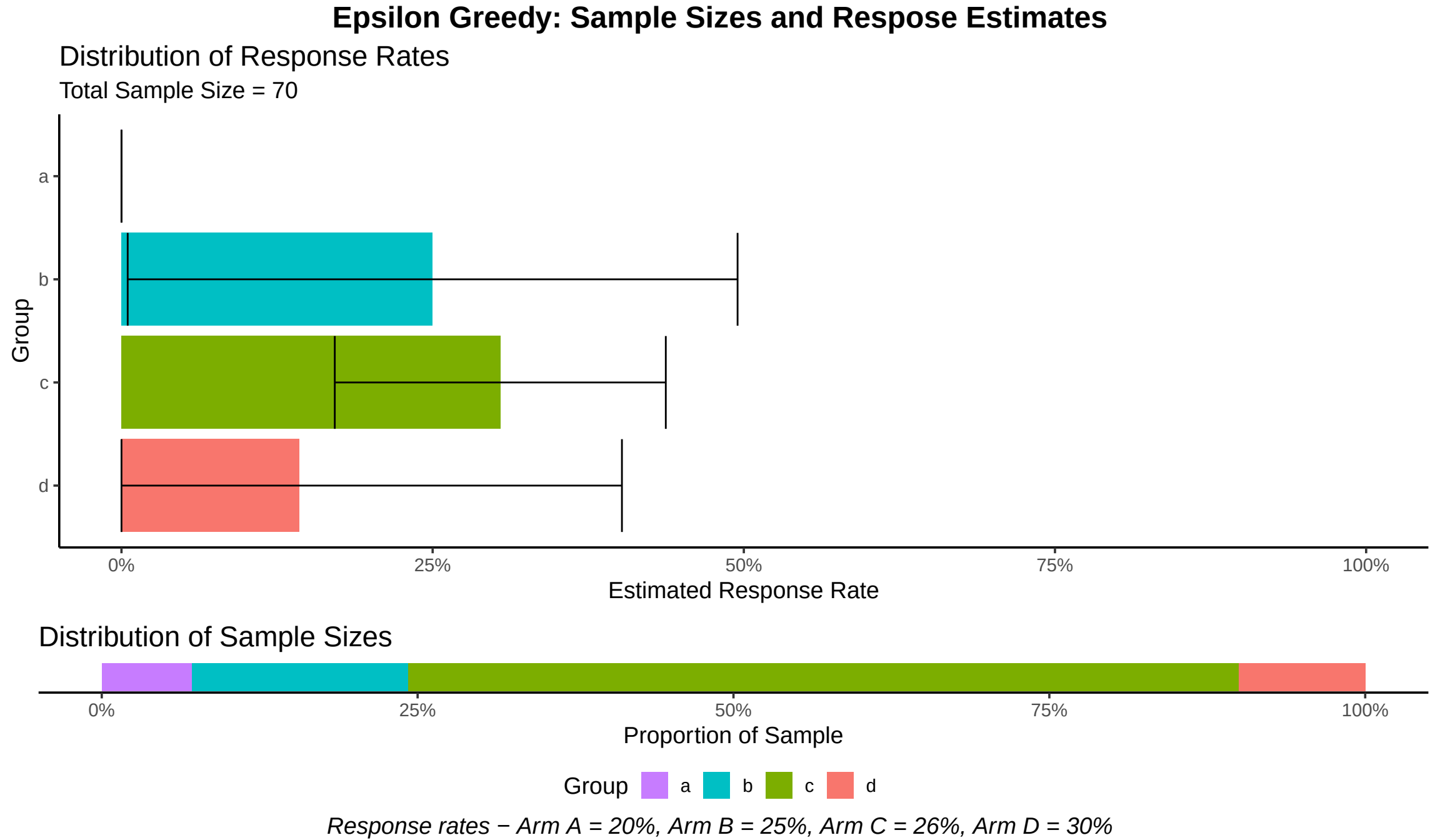
Response rates − Arm A = 20%, Arm B = 25%, Arm C = 26%, Arm D = 30%


Epsilon Greedy: Sample Sizes and Respose Estimates
Distribution of Response Rates
Total Sample Size = 60
Group
a
b
c
d
0%
25%
50%
75%
100%
Estimated Response Rate
Distribution of Sample Sizes
0%
25%
50%
75%
100%
Proportion of Sample
Group
a
b
c
d
Response rates − Arm A = 20%, Arm B = 25%, Arm C = 26%, Arm D = 30%

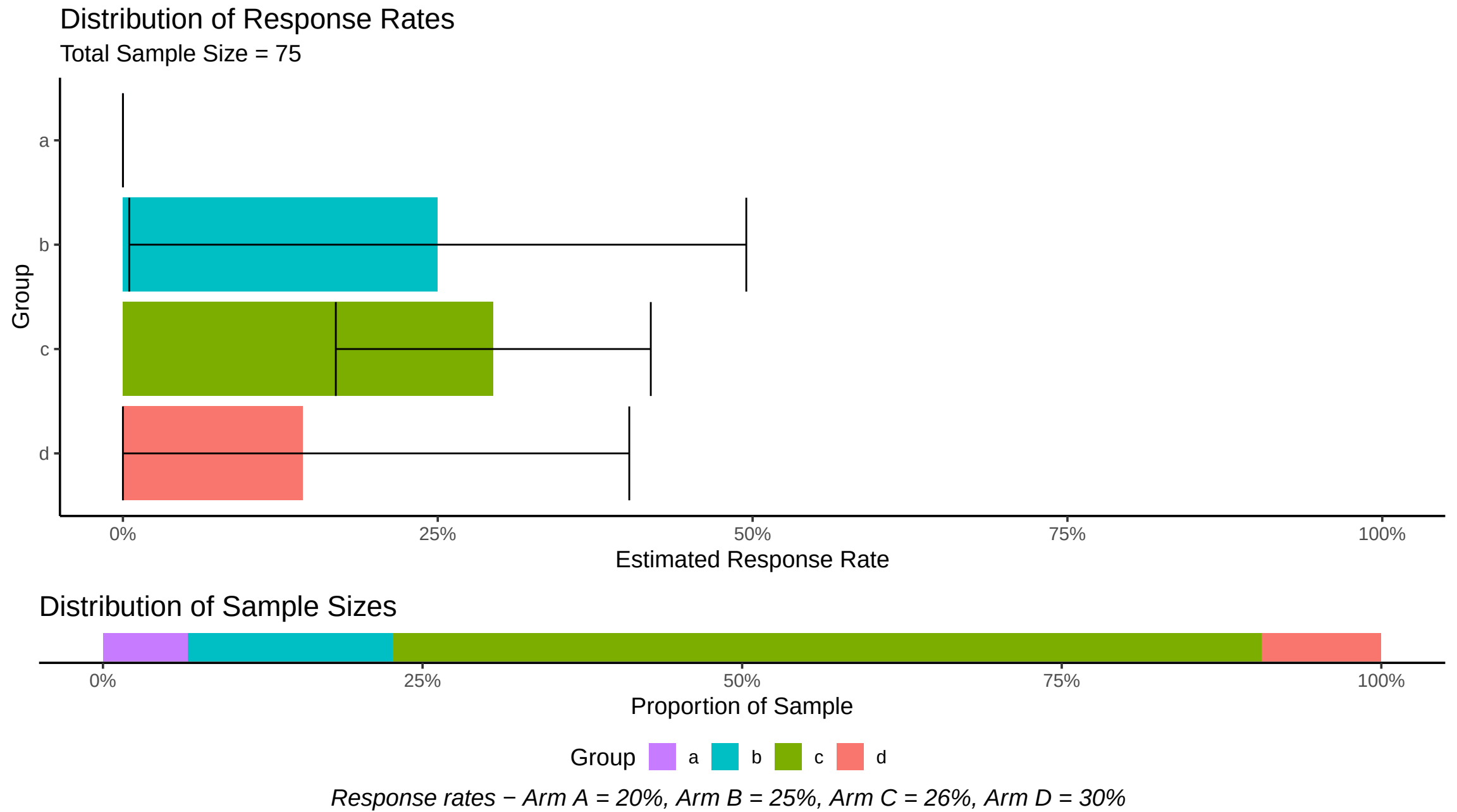
Epsilon Greedy: Sample Sizes and Respose Estimates



Response rates − Arm A = 20%, Arm B = 25%, Arm C = 26%, Arm D = 30%

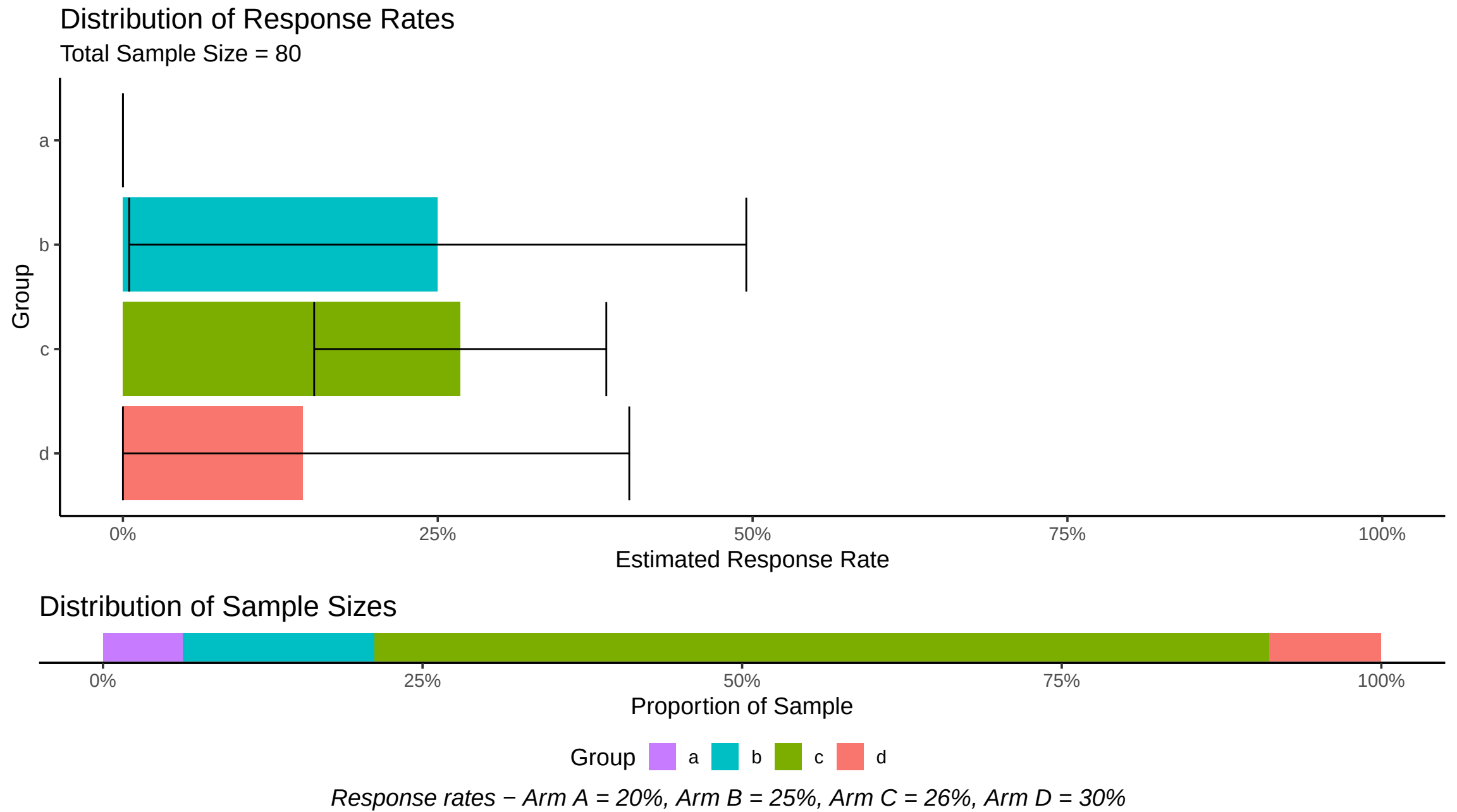

Epsilon Greedy: Sample Sizes and Respose Estimates
Distribution of Response Rates
Total Sample Size = 70
Group
a
b
c
d
0%
25%
50%
75%
100%
Estimated Response Rate
Distribution of Sample Sizes
0%
25%
50%
75%
100%
Proportion of Sample
Group
a
b
c
d
Response rates − Arm A = 20%, Arm B = 25%, Arm C = 26%, Arm D = 30%

Epsilon Greedy: Sample Sizes and Respose Estimates



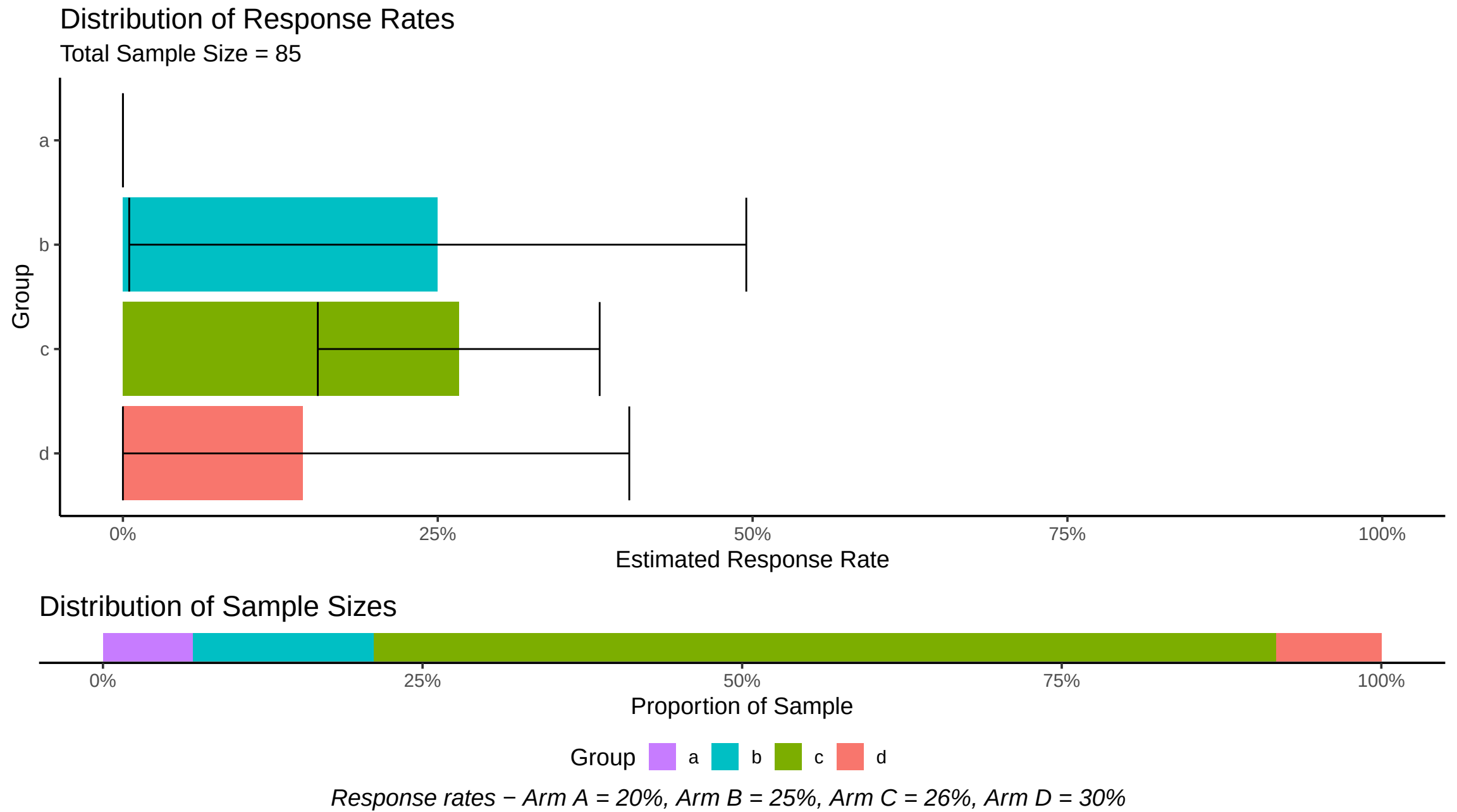
Response rates − Arm A = 20%, Arm B = 25%, Arm C = 26%, Arm D = 30%

Epsilon Greedy: Sample Sizes and Respose Estimates

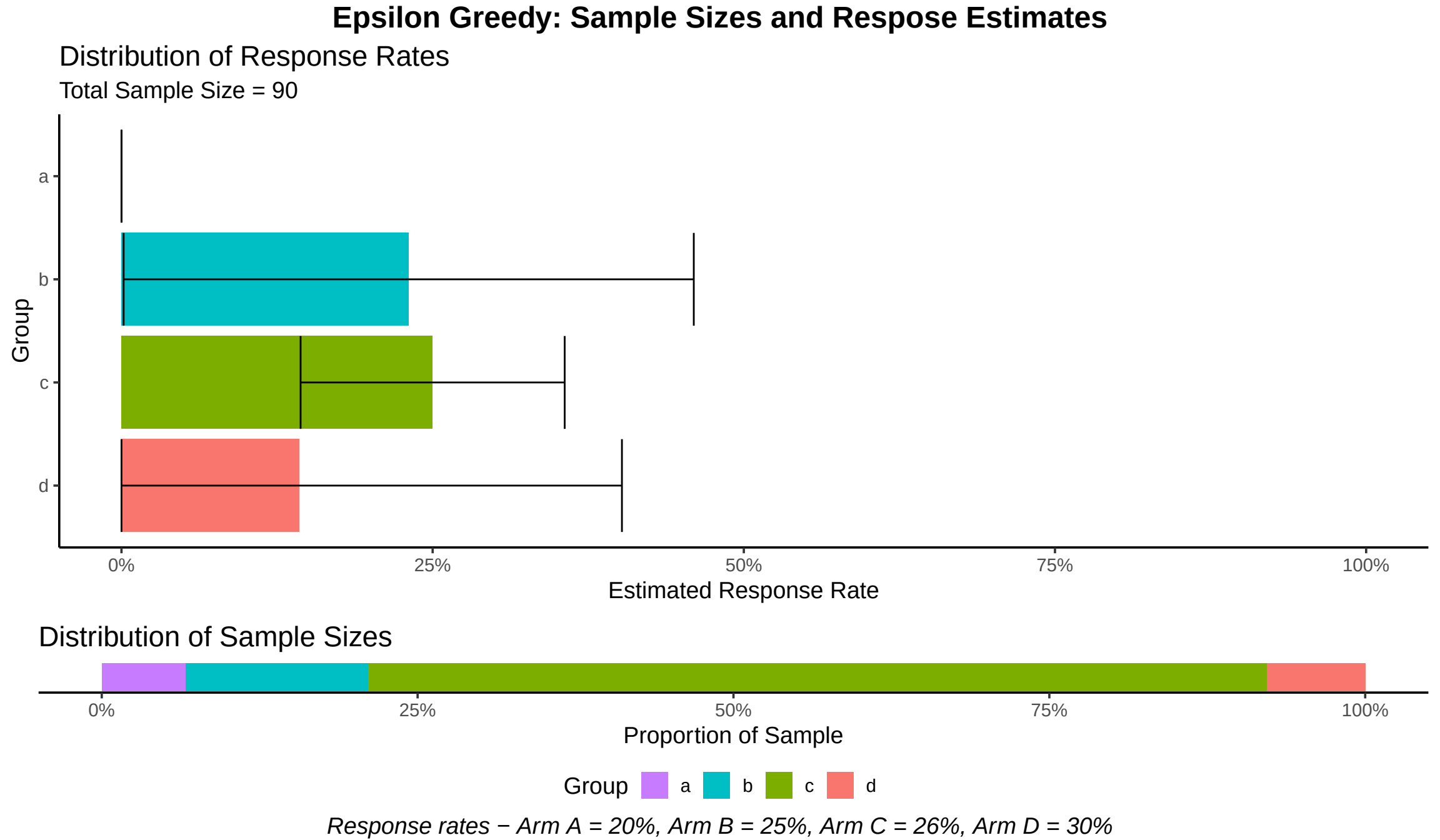


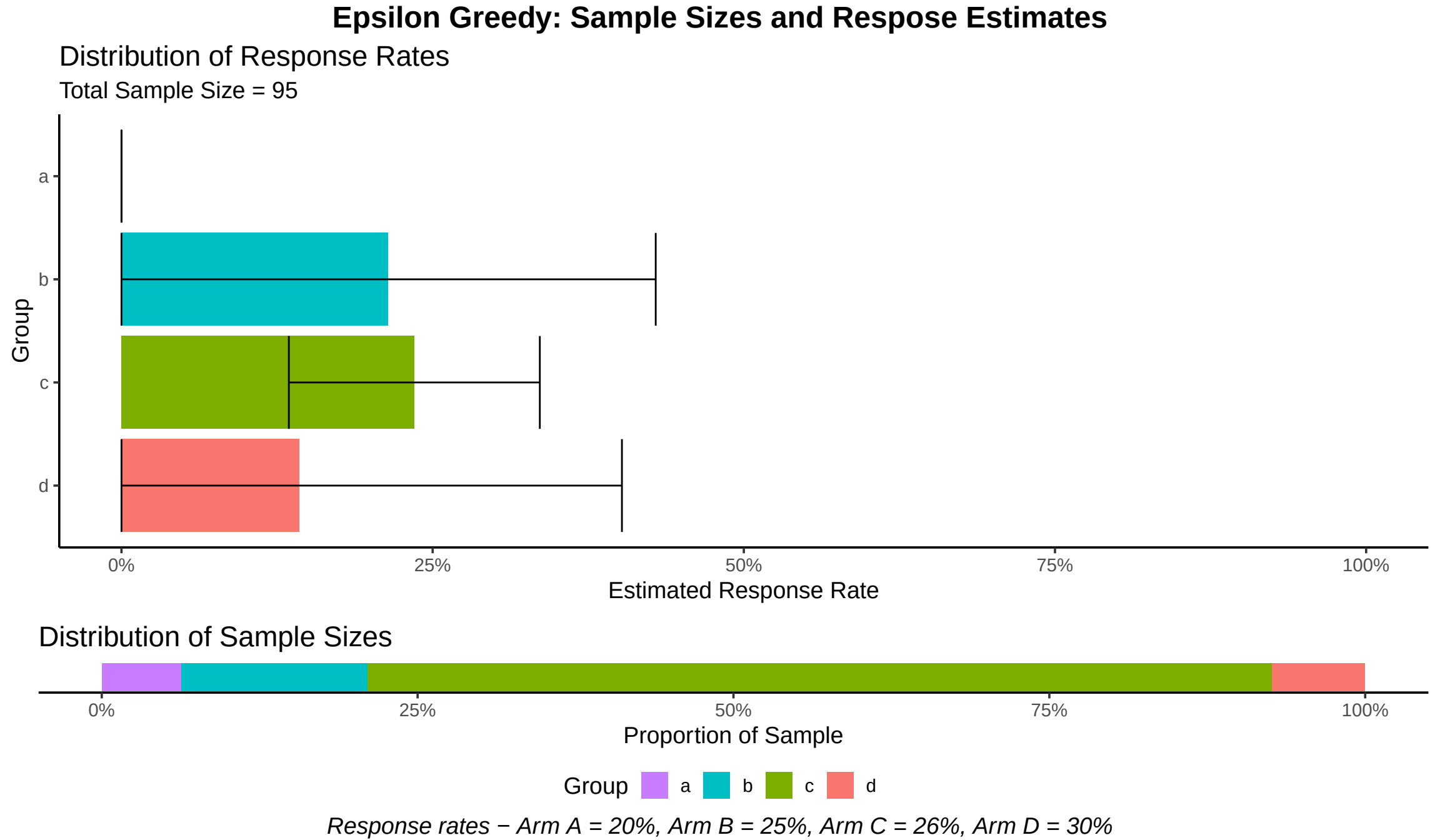
Response rates − Arm A = 20%, Arm B = 25%, Arm C = 26%, Arm D = 30%

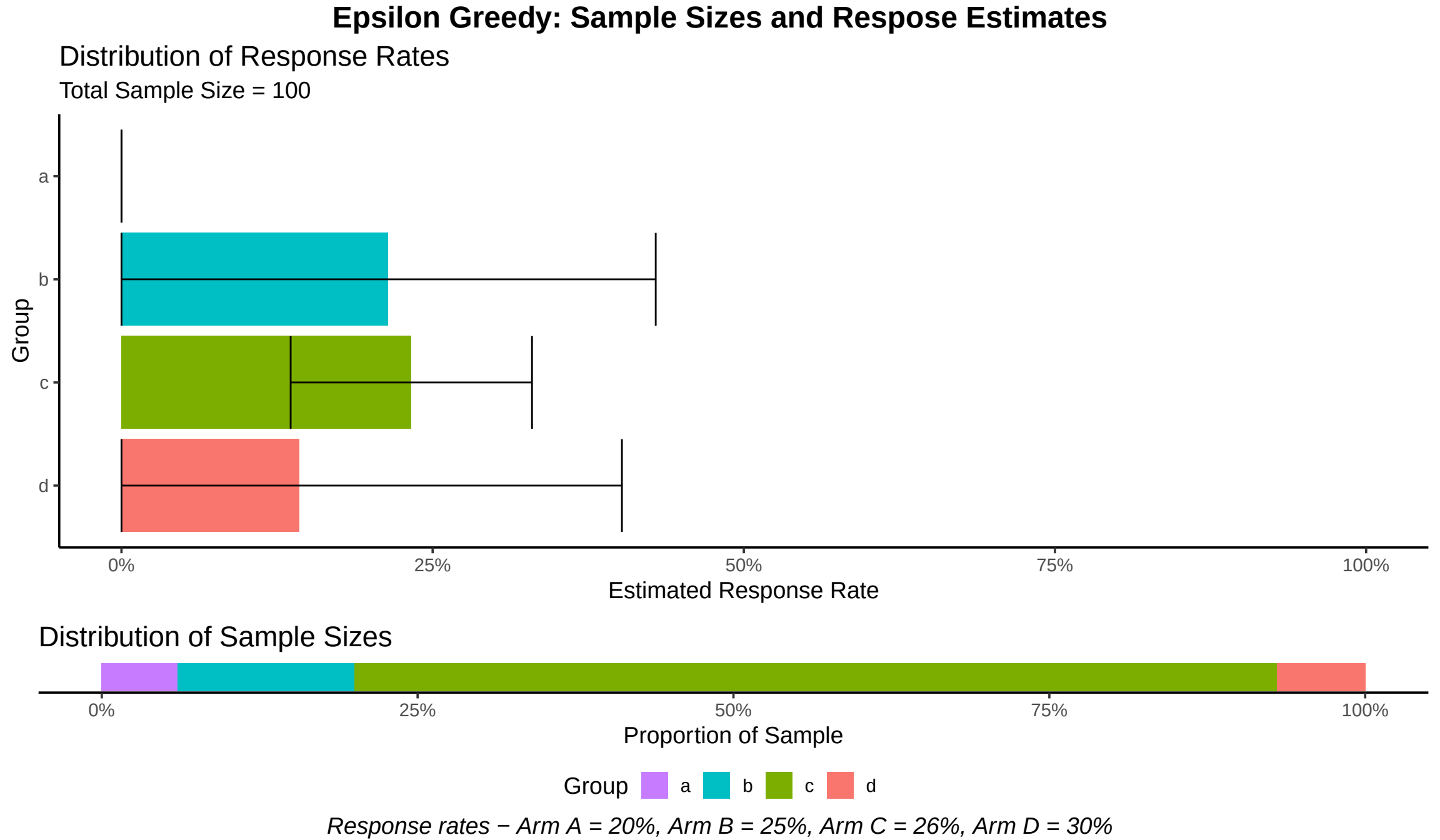
Epsilon Greedy: Sample Sizes and Respose Estimates

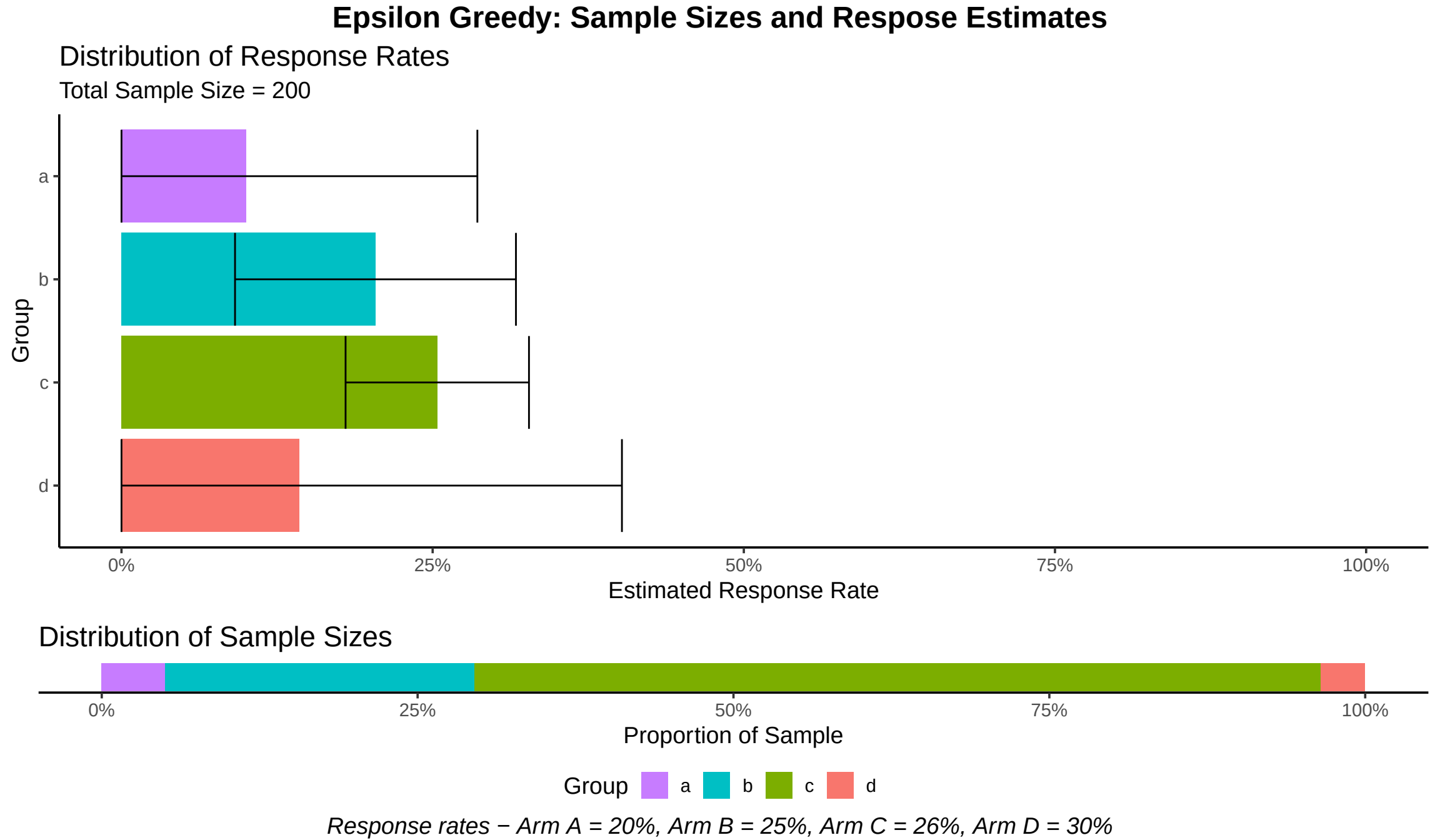


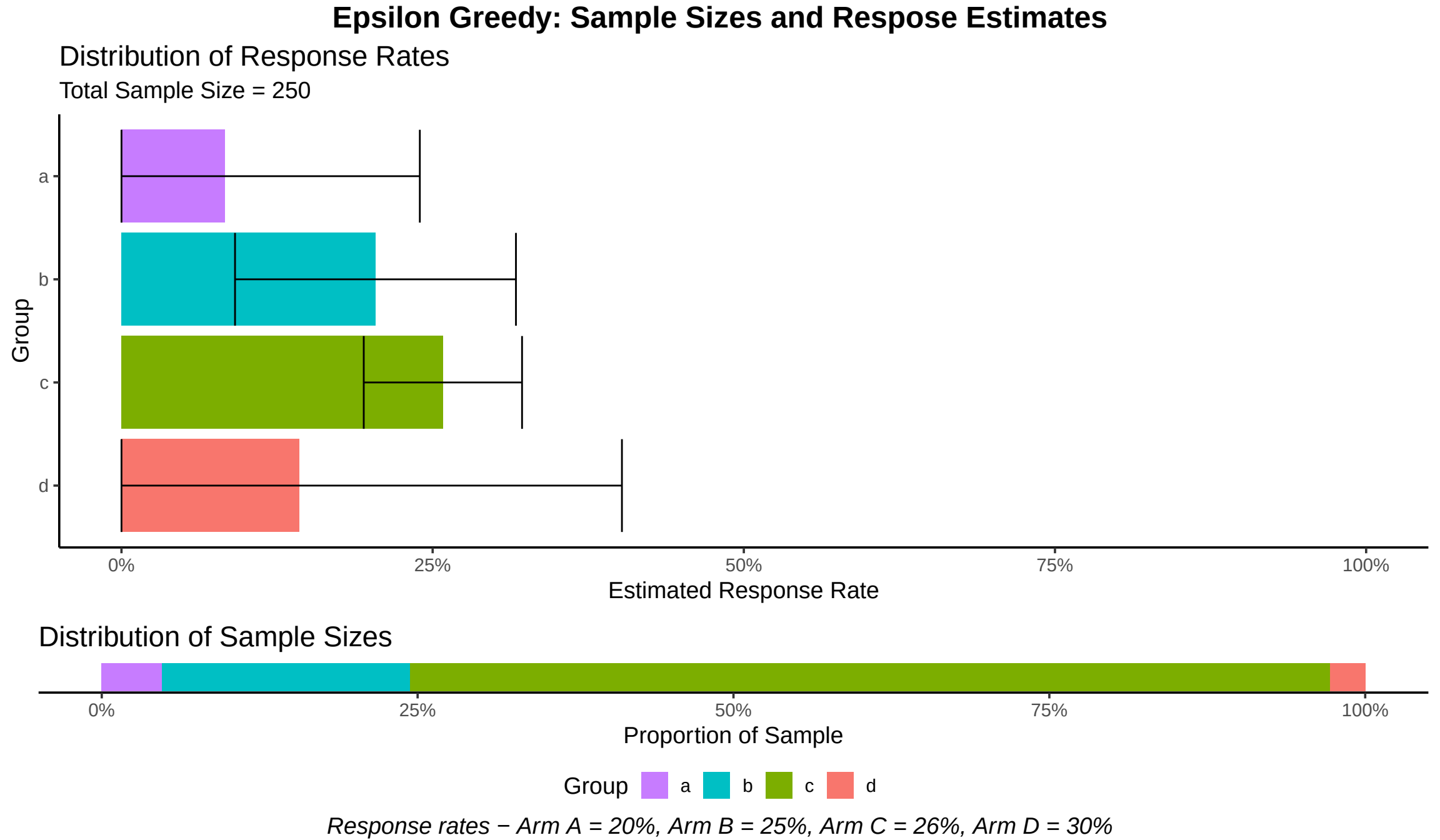
Response rates − Arm A = 20%, Arm B = 25%, Arm C = 26%, Arm D = 30%

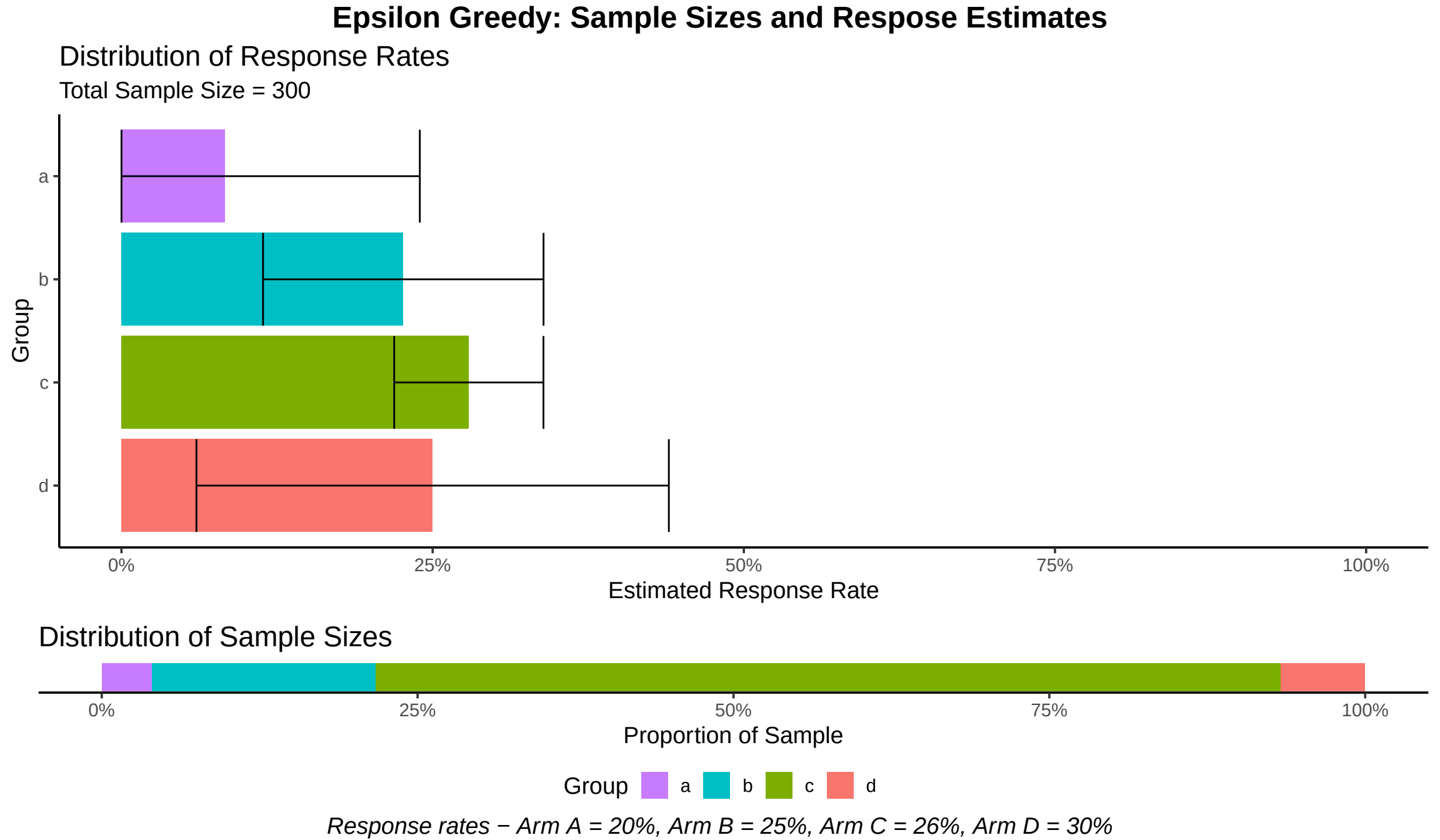

Epsilon Greedy: Sample Sizes and Respose Estimates
Distribution of Response Rates
Total Sample Size = 90
Group
a
b
c
d
0%
25%
50%
75%
100%
Estimated Response Rate
Distribution of Sample Sizes
0%
25%
50%
75%
100%
Proportion of Sample
Group
a
b
c
d
Response rates − Arm A = 20%, Arm B = 25%, Arm C = 26%, Arm D = 30%

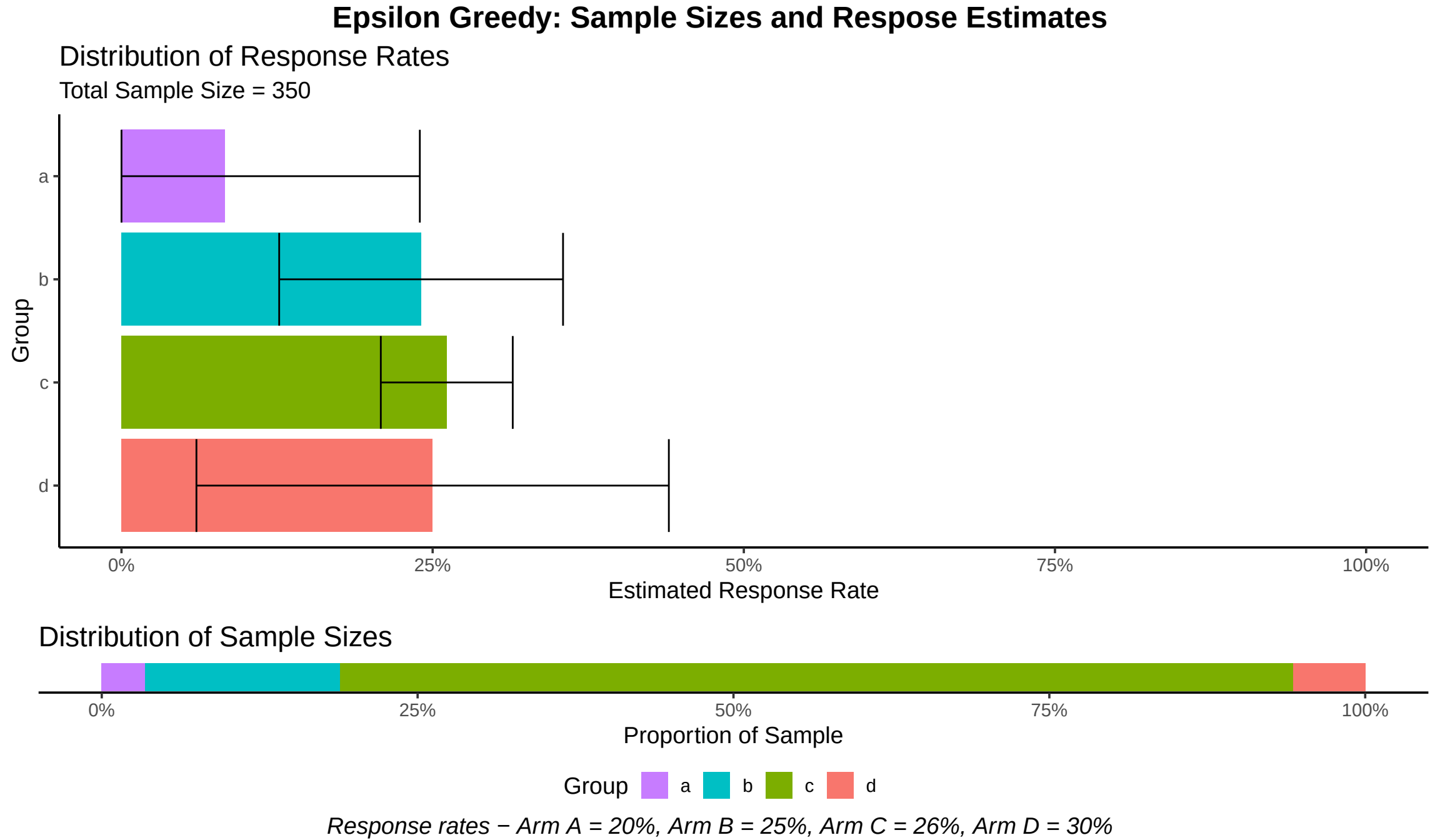

Epsilon Greedy: Sample Sizes and Respose Estimates
Distribution of Response Rates
Total Sample Size = 95
Group
a
b
c
d
0%
25%
50%
75%
100%
Estimated Response Rate
Distribution of Sample Sizes
0%
25%
50%
75%
100%
Proportion of Sample
Group
a
b
c
d
Response rates − Arm A = 20%, Arm B = 25%, Arm C = 26%, Arm D = 30%


Epsilon Greedy: Sample Sizes and Respose Estimates
Distribution of Response Rates
Total Sample Size = 100
Group
a
b
c
d
0%
25%
50%
75%
100%
Estimated Response Rate
Distribution of Sample Sizes
0%
25%
50%
75%
100%
Proportion of Sample
Group
a
b
c
d
Response rates − Arm A = 20%, Arm B = 25%, Arm C = 26%, Arm D = 30%

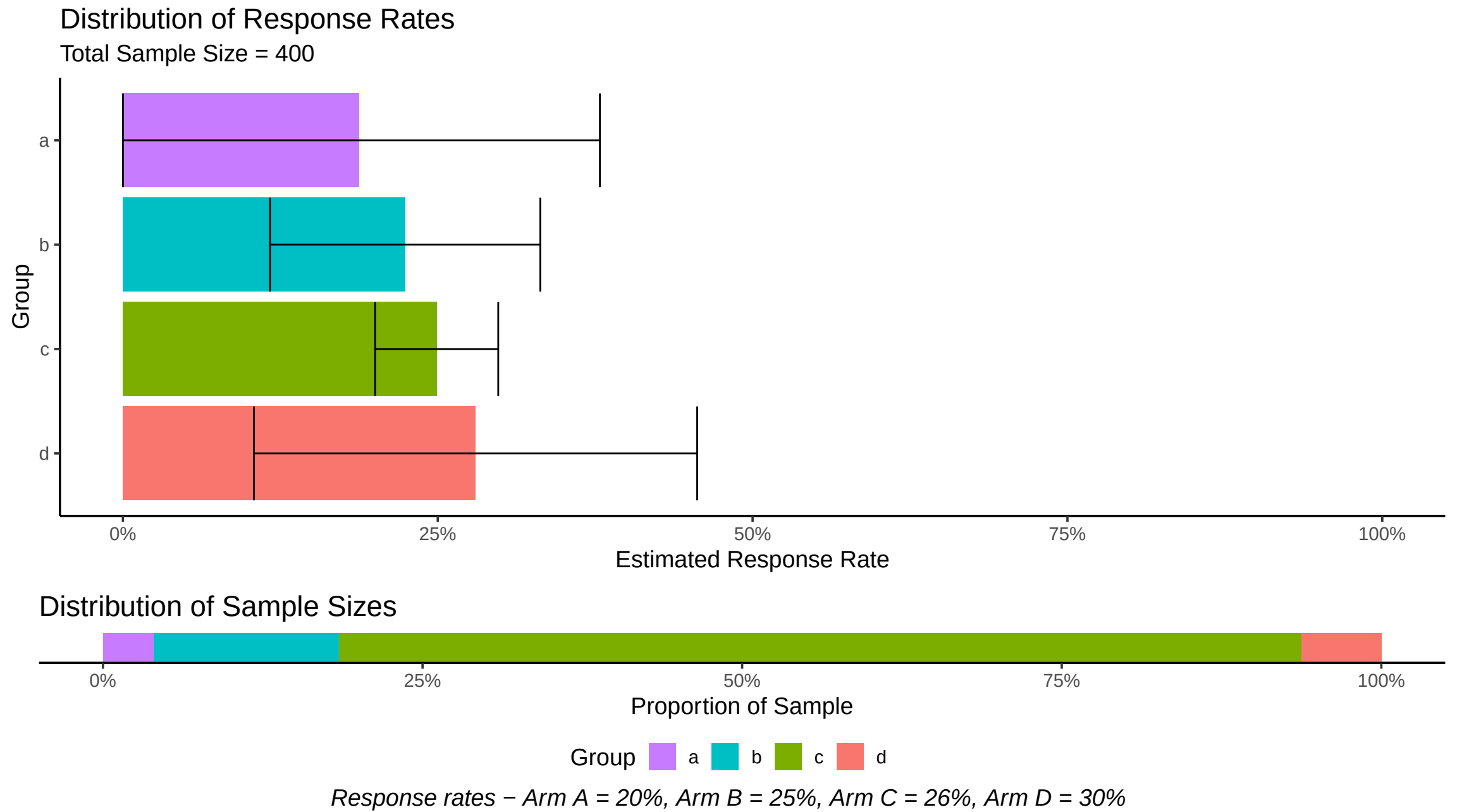

Epsilon Greedy: Sample Sizes and Respose Estimates
Distribution of Response Rates
Total Sample Size = 200
Group
a
b
c
d
0%
25%
50%
75%
100%
Estimated Response Rate
Distribution of Sample Sizes
0%
25%
50%
75%
100%
Proportion of Sample
Group
a
b
c
d
Response rates − Arm A = 20%, Arm B = 25%, Arm C = 26%, Arm D = 30%


Epsilon Greedy: Sample Sizes and Respose Estimates
Distribution of Response Rates
Total Sample Size = 250
Group
a
b
c
d
0%
25%
50%
75%
100%
Estimated Response Rate
Distribution of Sample Sizes
0%
25%
50%
75%
100%
Proportion of Sample
Group
a
b
c
d
Response rates − Arm A = 20%, Arm B = 25%, Arm C = 26%, Arm D = 30%


Epsilon Greedy: Sample Sizes and Respose Estimates
Distribution of Response Rates
Total Sample Size = 300
Group
a
b
c
d
0%
25%
50%
75%
100%
Estimated Response Rate
Distribution of Sample Sizes
0%
25%
50%
75%
100%
Proportion of Sample
Group
a
b
c
d
Response rates − Arm A = 20%, Arm B = 25%, Arm C = 26%, Arm D = 30%

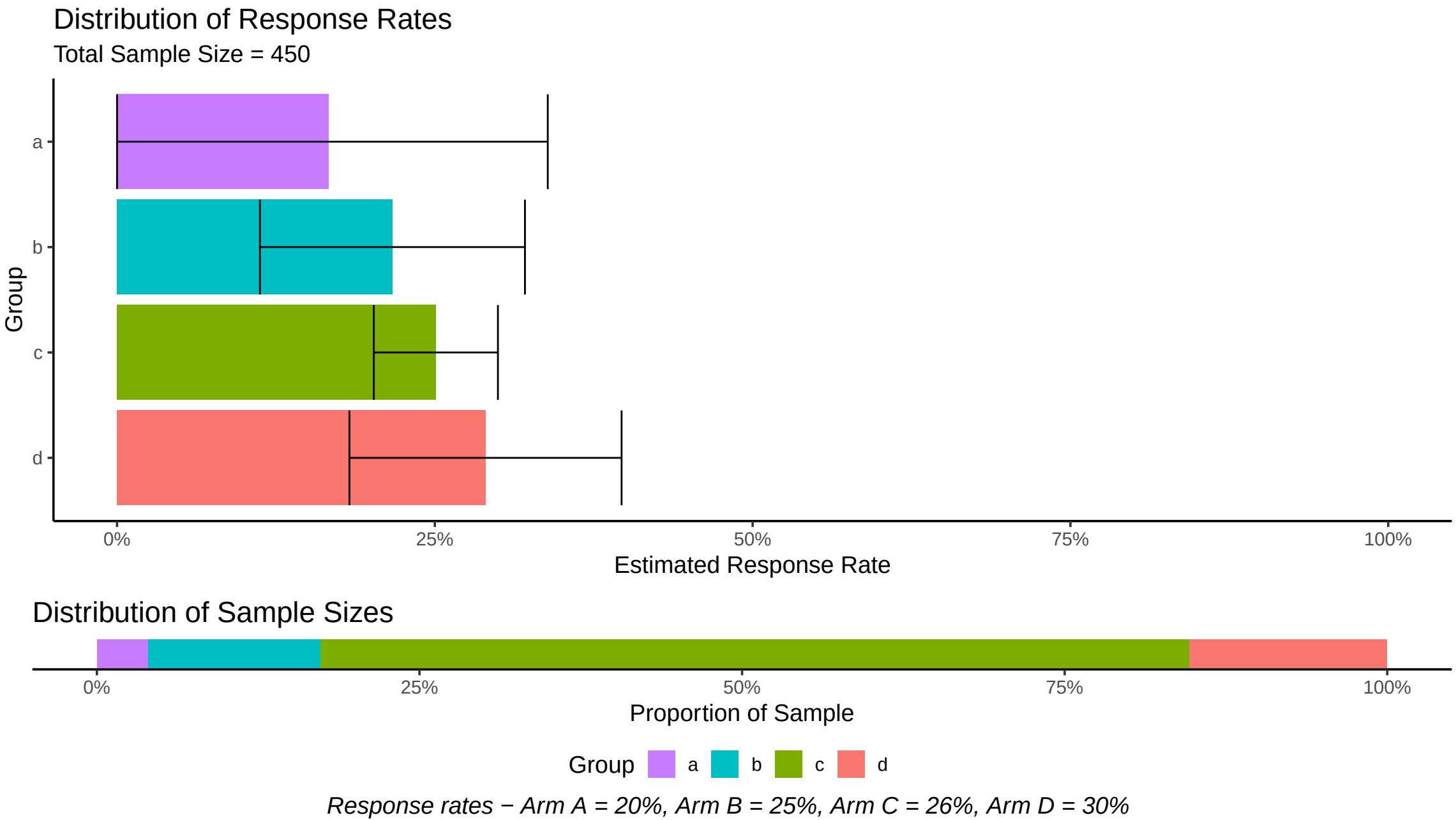

Epsilon Greedy: Sample Sizes and Respose Estimates
Distribution of Response Rates
Total Sample Size = 350
Group
a
b
c
d
0%
25%
50%
75%
100%
Estimated Response Rate
Distribution of Sample Sizes
0%
25%
50%
75%
100%
Proportion of Sample
Group
a
b
c
d
Response rates − Arm A = 20%, Arm B = 25%, Arm C = 26%, Arm D = 30%

Epsilon Greedy: Sample Sizes and Respose Estimates



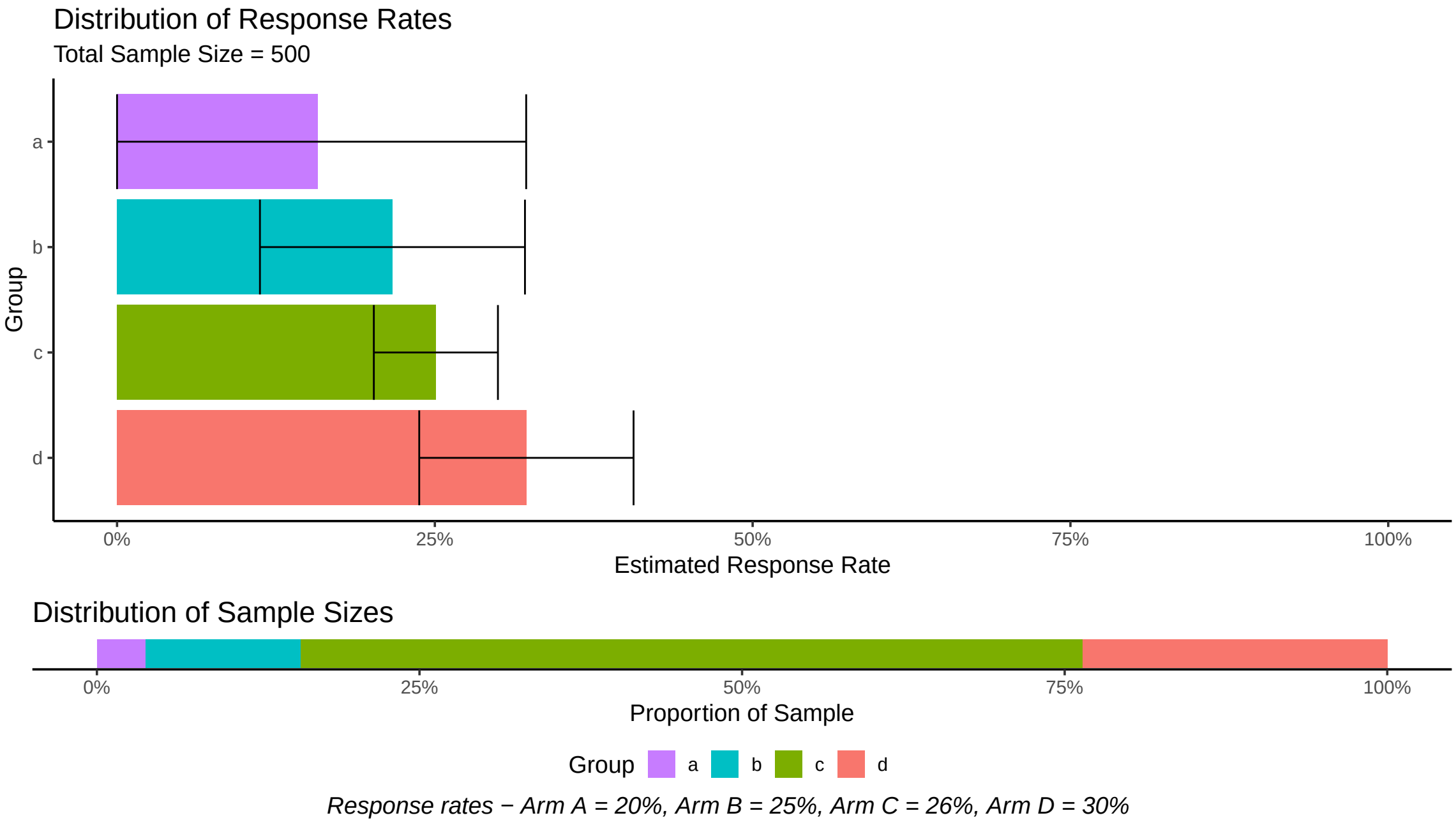
Response rates − Arm A = 20%, Arm B = 25%, Arm C = 26%, Arm D = 30%

Epsilon Greedy: Sample Sizes and Respose Estimates



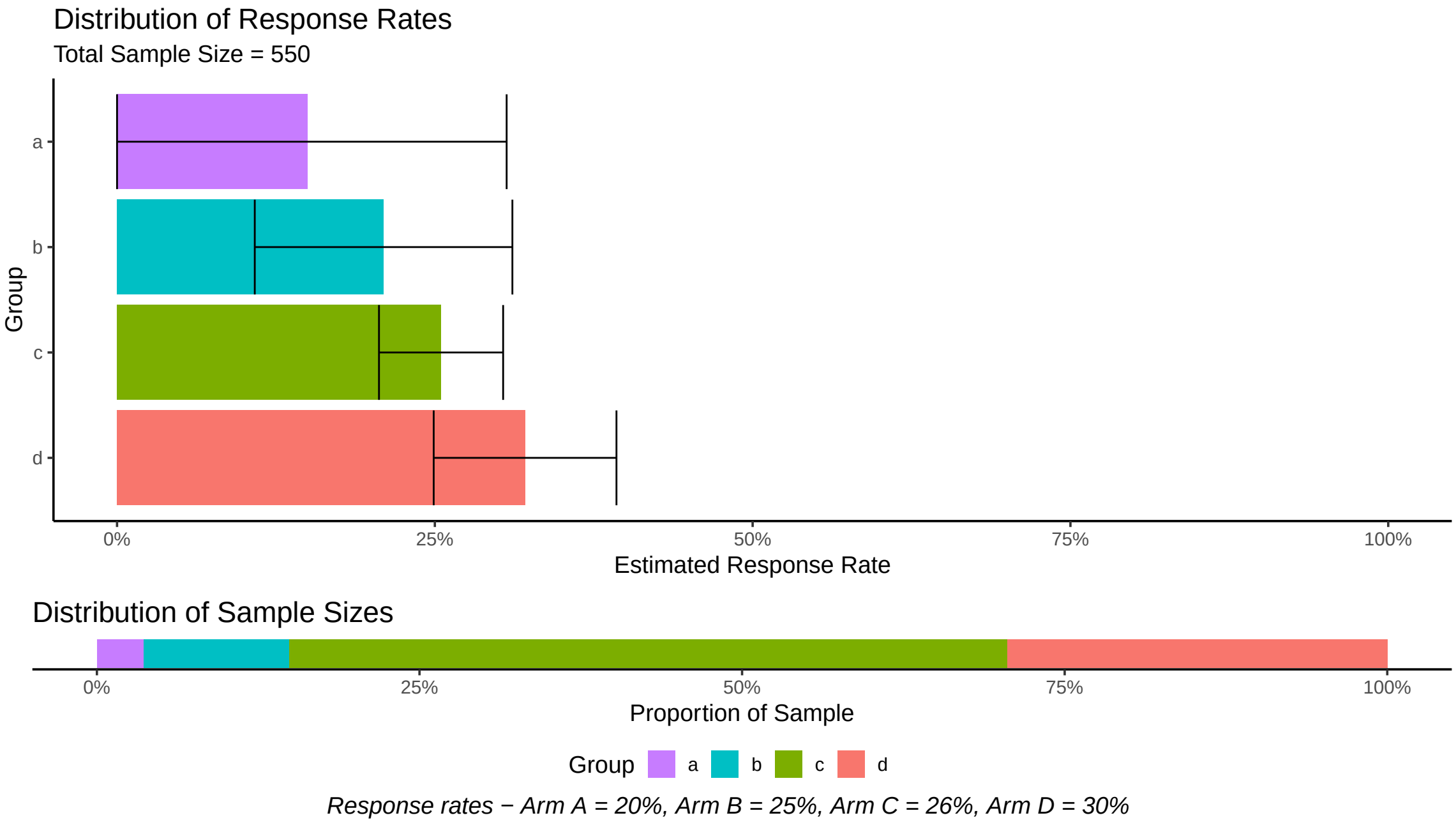
Response rates − Arm A = 20%, Arm B = 25%, Arm C = 26%, Arm D = 30%

Epsilon Greedy: Sample Sizes and Respose Estimates



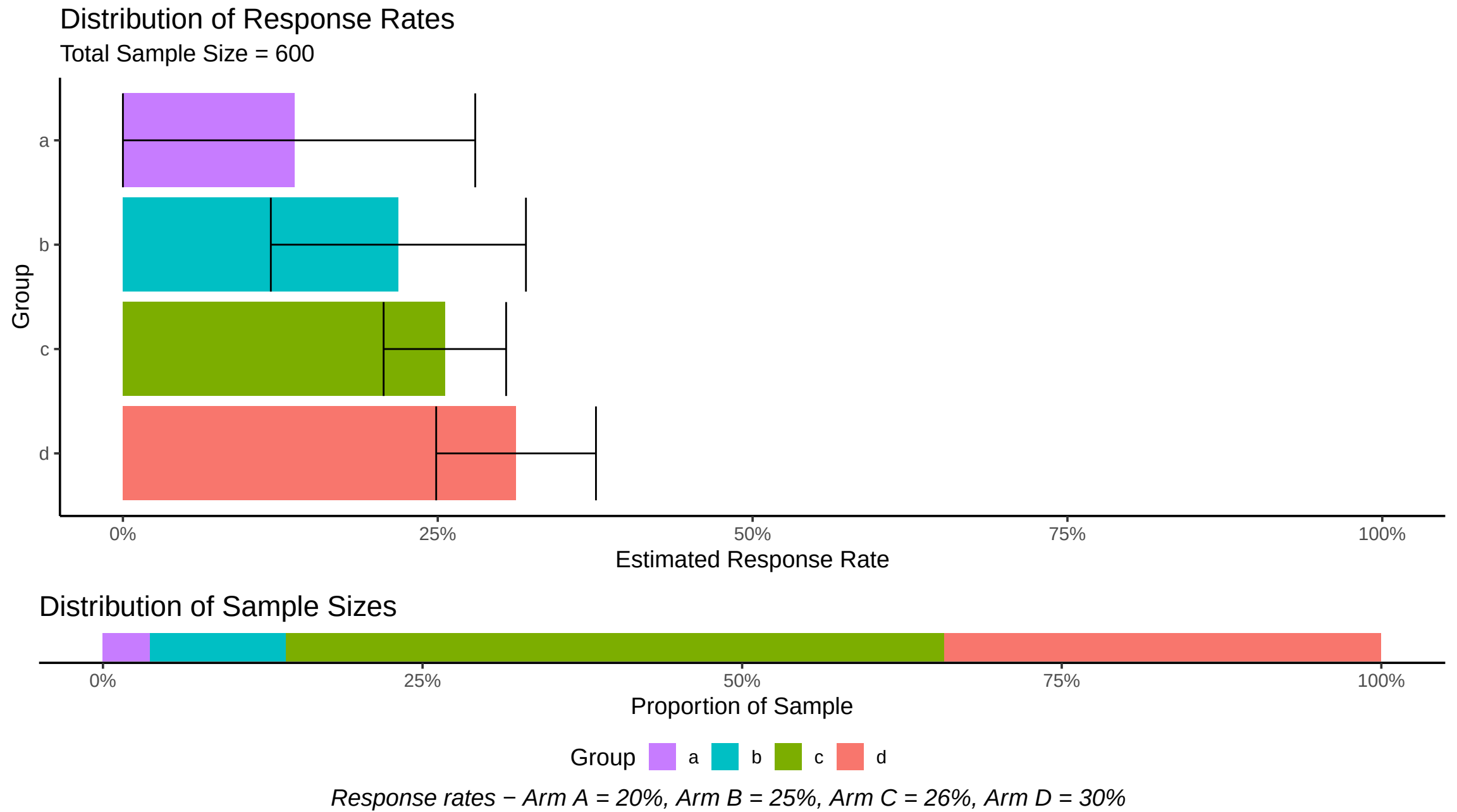
Response rates − Arm A = 20%, Arm B = 25%, Arm C = 26%, Arm D = 30%

Epsilon Greedy: Sample Sizes and Respose Estimates



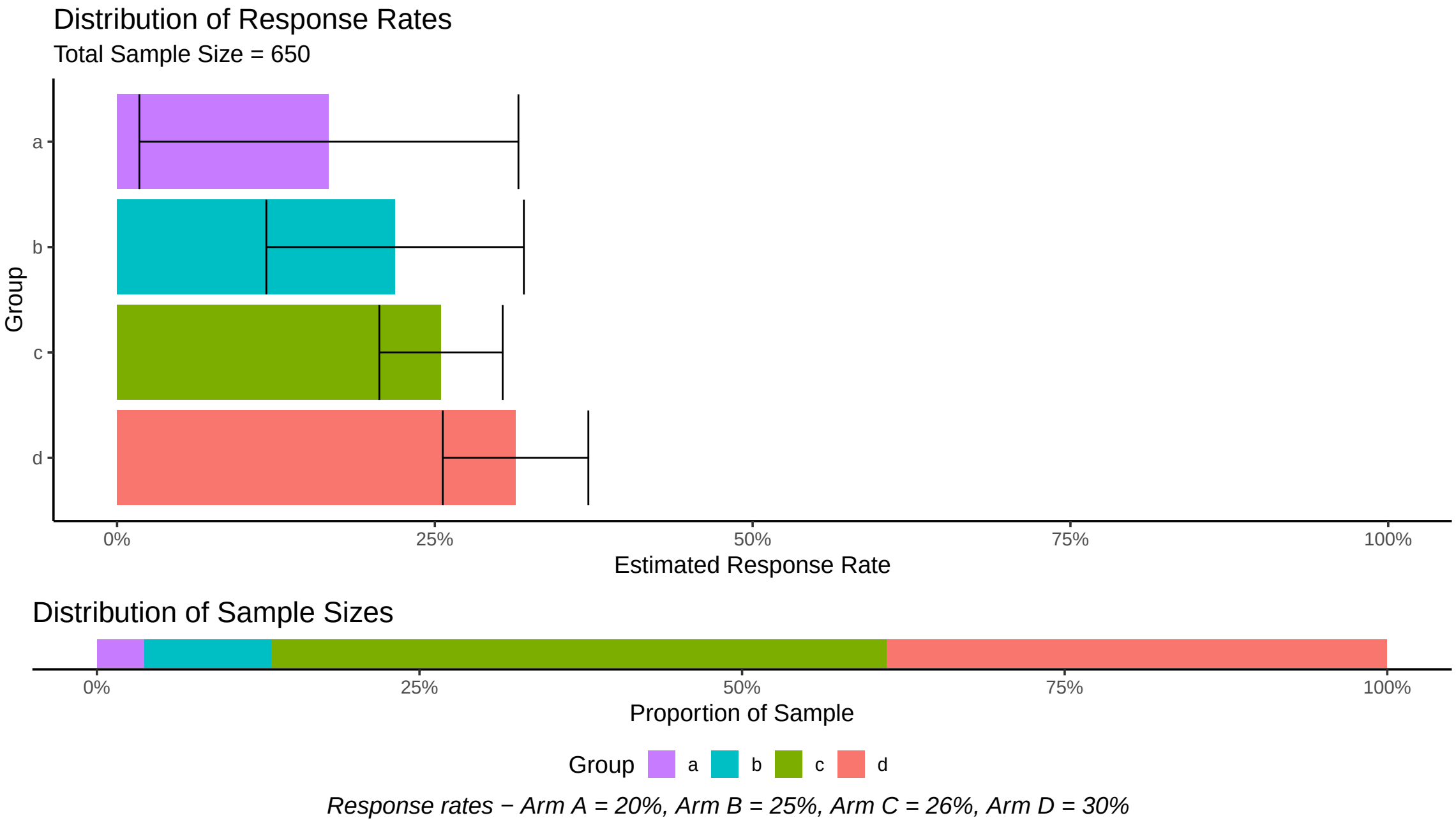
Response rates − Arm A = 20%, Arm B = 25%, Arm C = 26%, Arm D = 30%

Epsilon Greedy: Sample Sizes and Respose Estimates

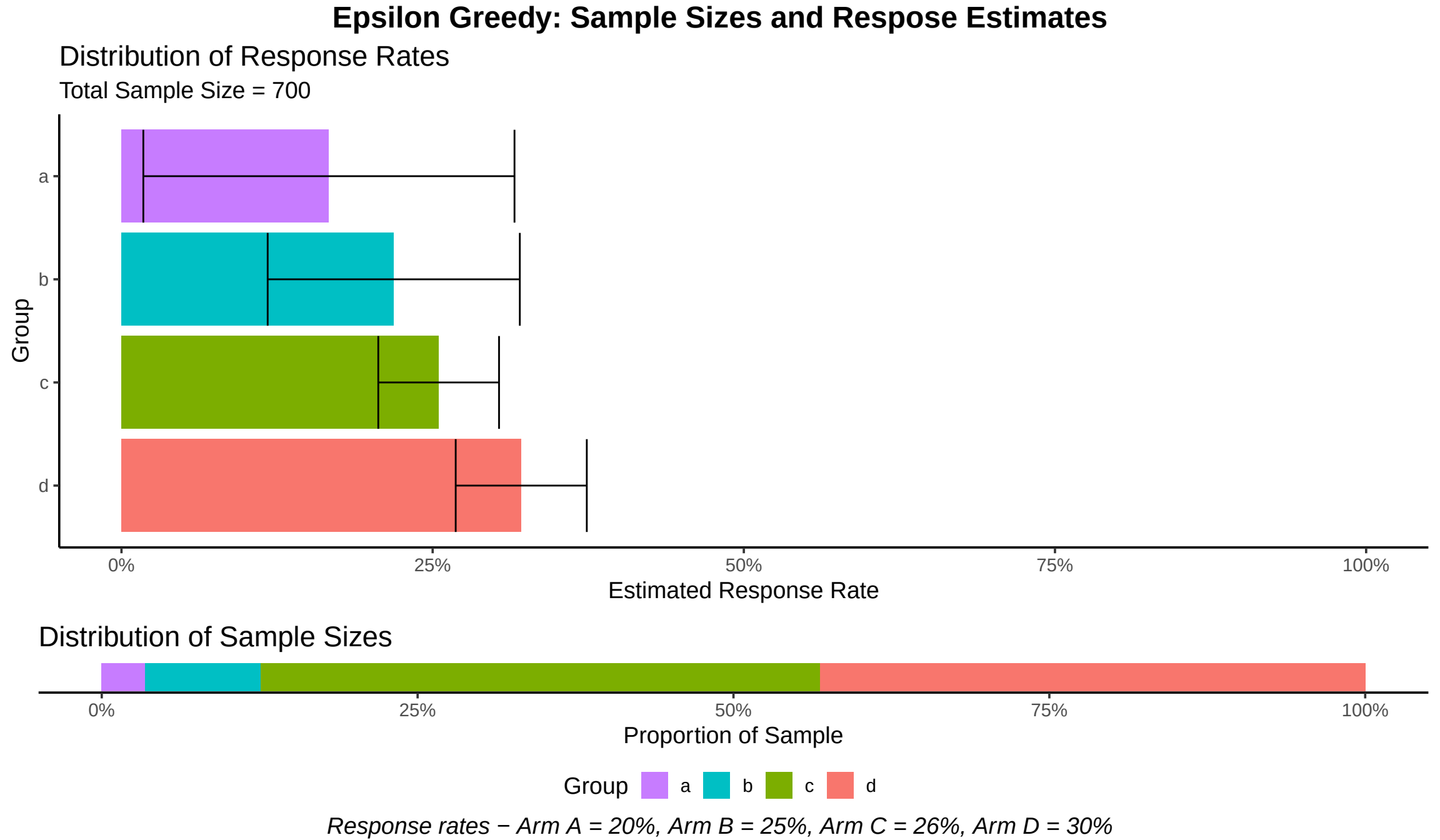


Response rates − Arm A = 20%, Arm B = 25%, Arm C = 26%, Arm D = 30%

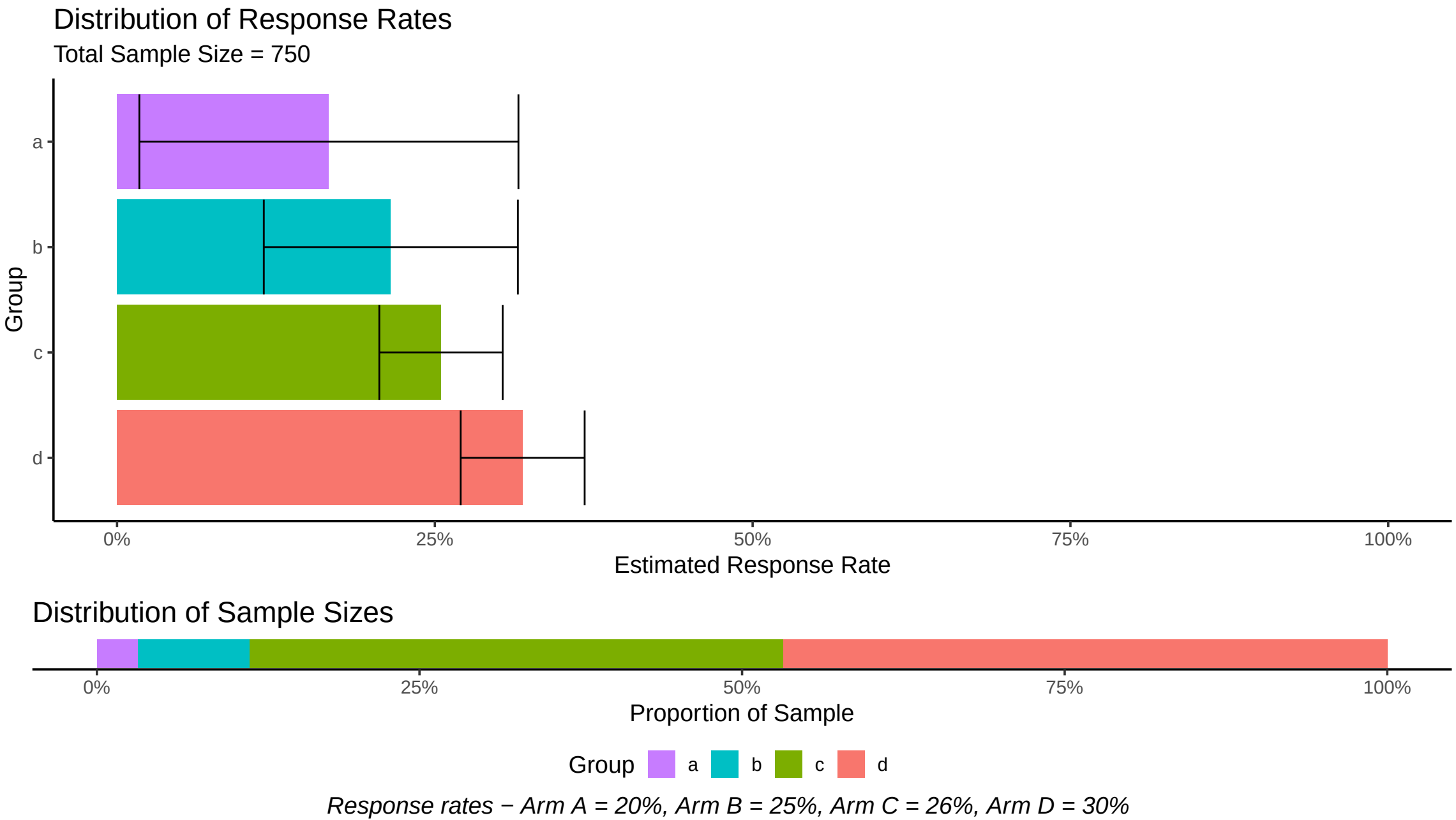
Epsilon Greedy: Sample Sizes and Respose Estimates



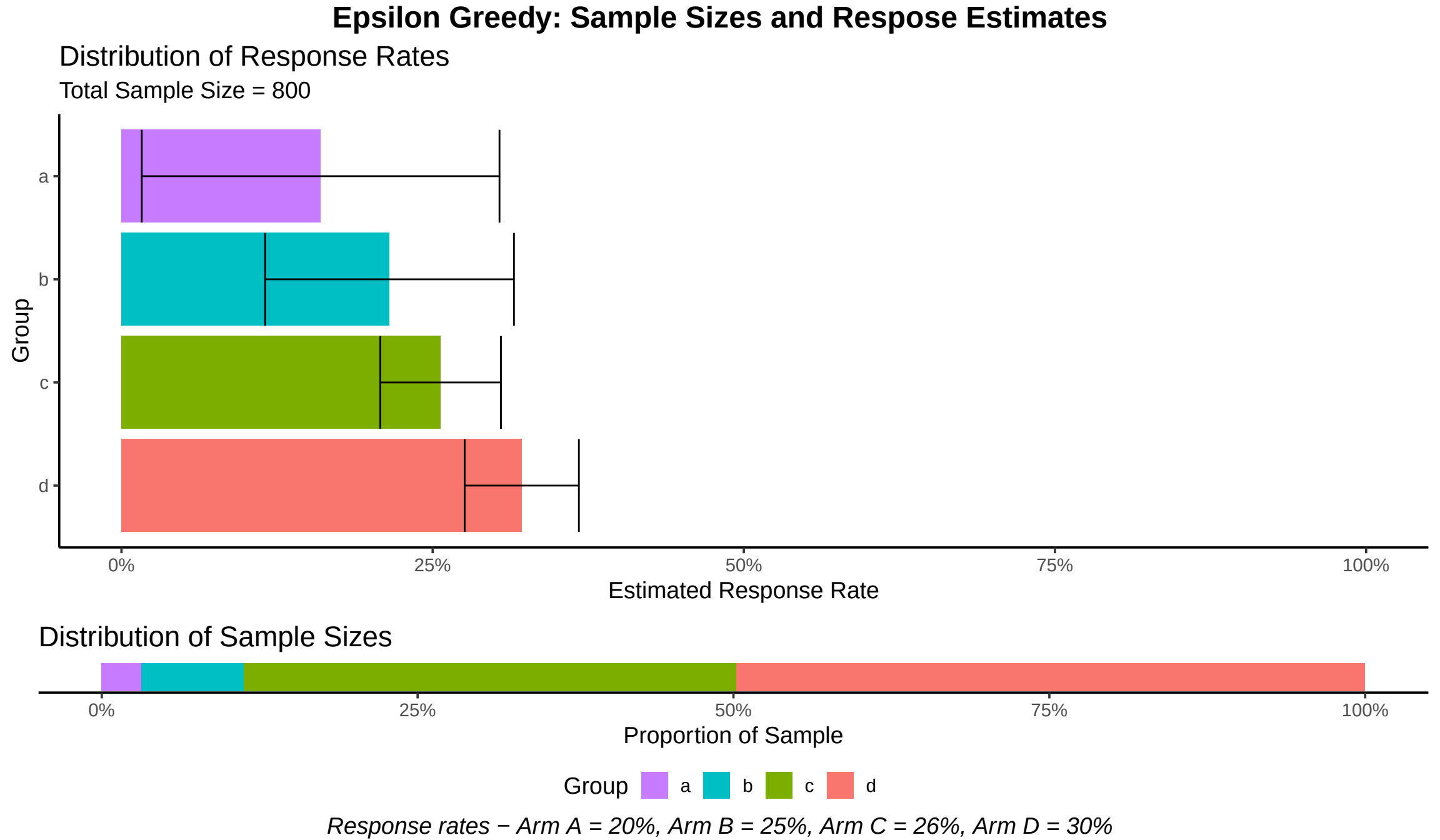
Response rates − Arm A = 20%, Arm B = 25%, Arm C = 26%, Arm D = 30%

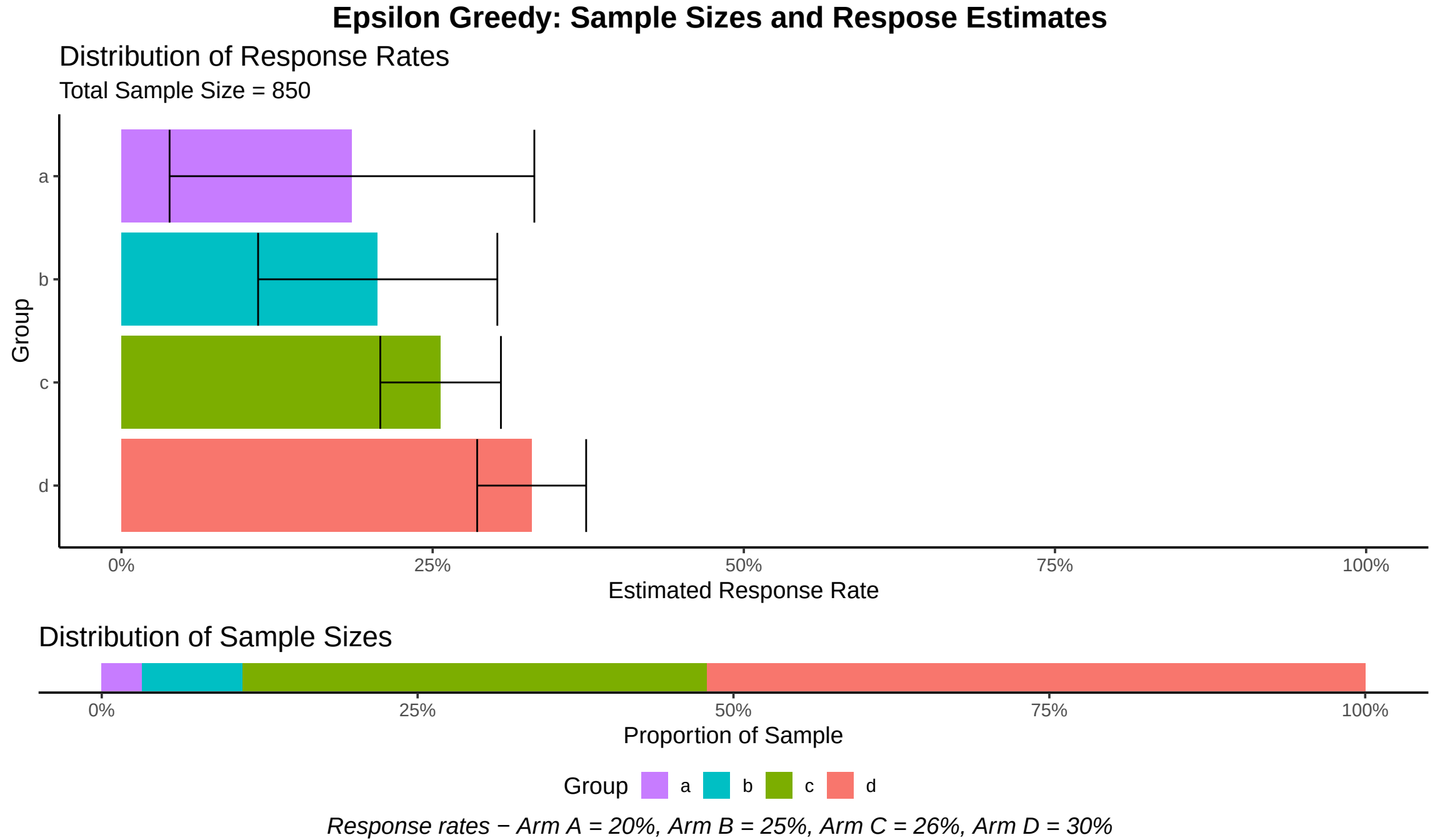

Epsilon Greedy: Sample Sizes and Respose Estimates
Distribution of Response Rates
Total Sample Size = 700
Group
a
b
c
d
0%
25%
50%
75%
100%
Estimated Response Rate
Distribution of Sample Sizes
0%
25%
50%
75%
100%
Proportion of Sample
Group
a
b
c
d
Response rates − Arm A = 20%, Arm B = 25%, Arm C = 26%, Arm D = 30%

Epsilon Greedy: Sample Sizes and Respose Estimates

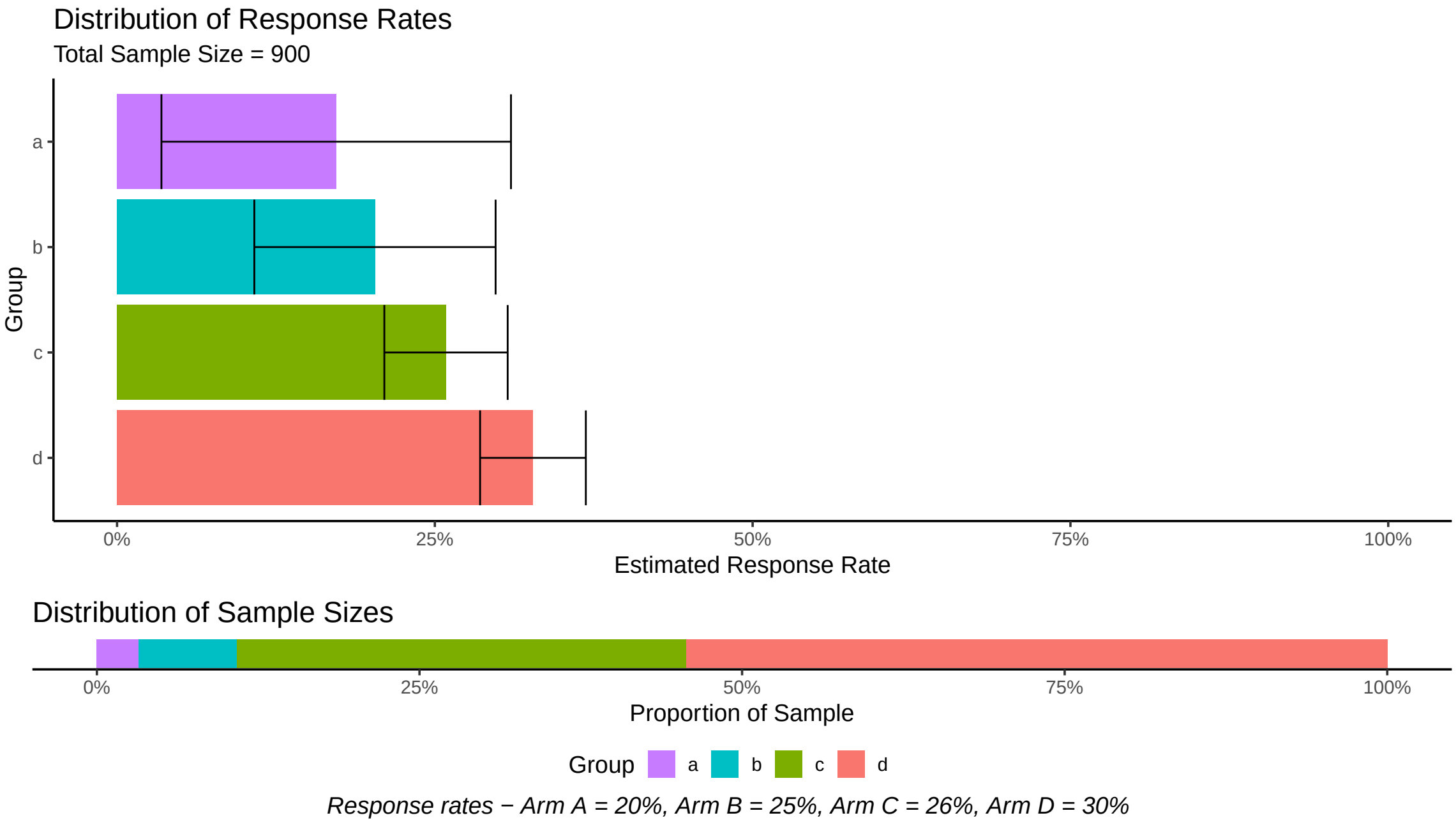


Response rates − Arm A = 20%, Arm B = 25%, Arm C = 26%, Arm D = 30%

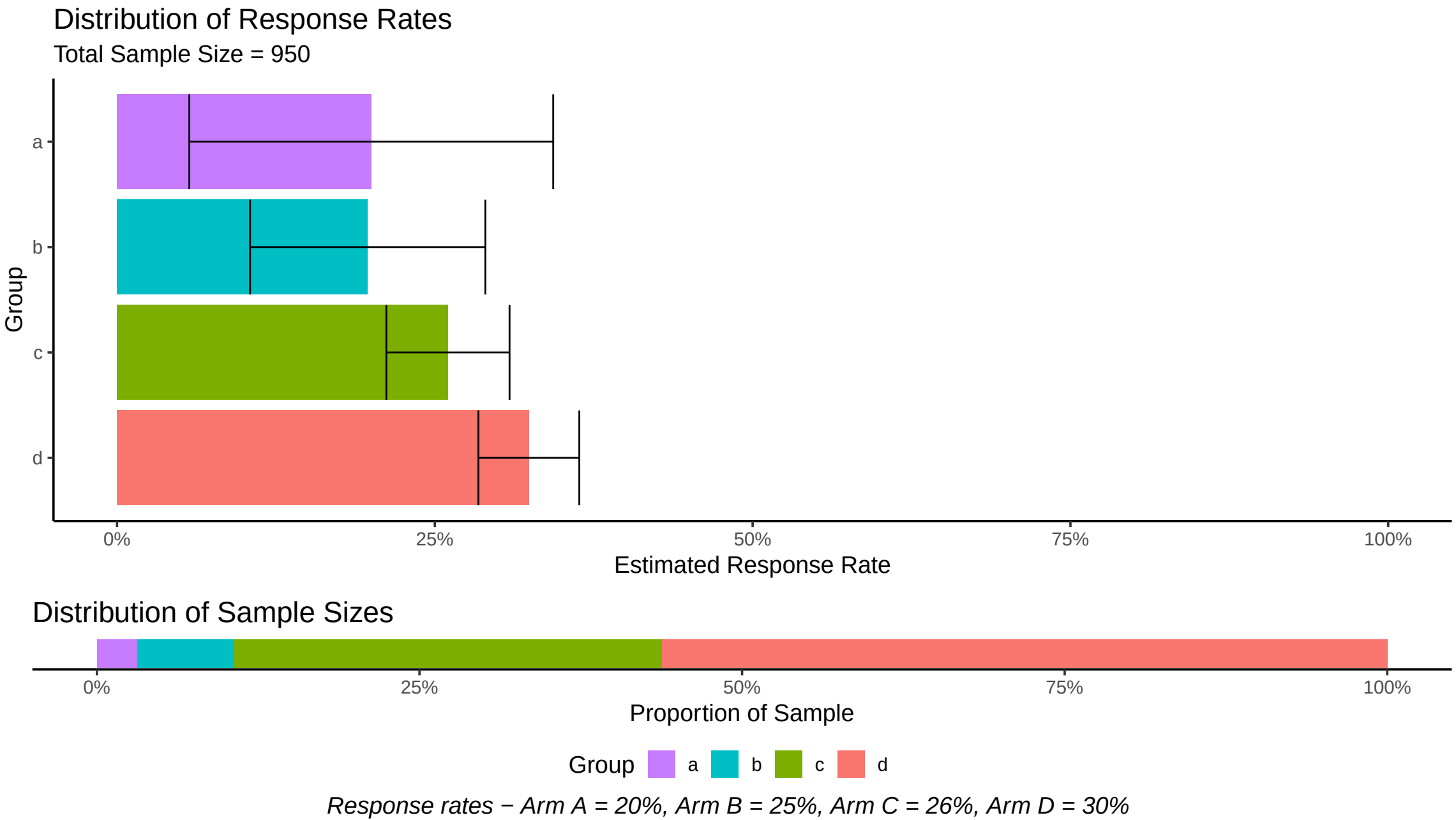

Epsilon Greedy: Sample Sizes and Respose Estimates
Distribution of Response Rates
Total Sample Size = 800
Group
a
b
c
d
0%
25%
50%
75%
100%
Estimated Response Rate
Distribution of Sample Sizes
0%
25%
50%
75%
100%
Proportion of Sample
Group
a
b
c
d
Response rates − Arm A = 20%, Arm B = 25%, Arm C = 26%, Arm D = 30%


Epsilon Greedy: Sample Sizes and Respose Estimates
Distribution of Response Rates
Total Sample Size = 850
Group
a
b
c
d
0%
25%
50%
75%
100%
Estimated Response Rate
Distribution of Sample Sizes
0%
25%
50%
75%
100%
Proportion of Sample
Group
a
b
c
d
Response rates − Arm A = 20%, Arm B = 25%, Arm C = 26%, Arm D = 30%

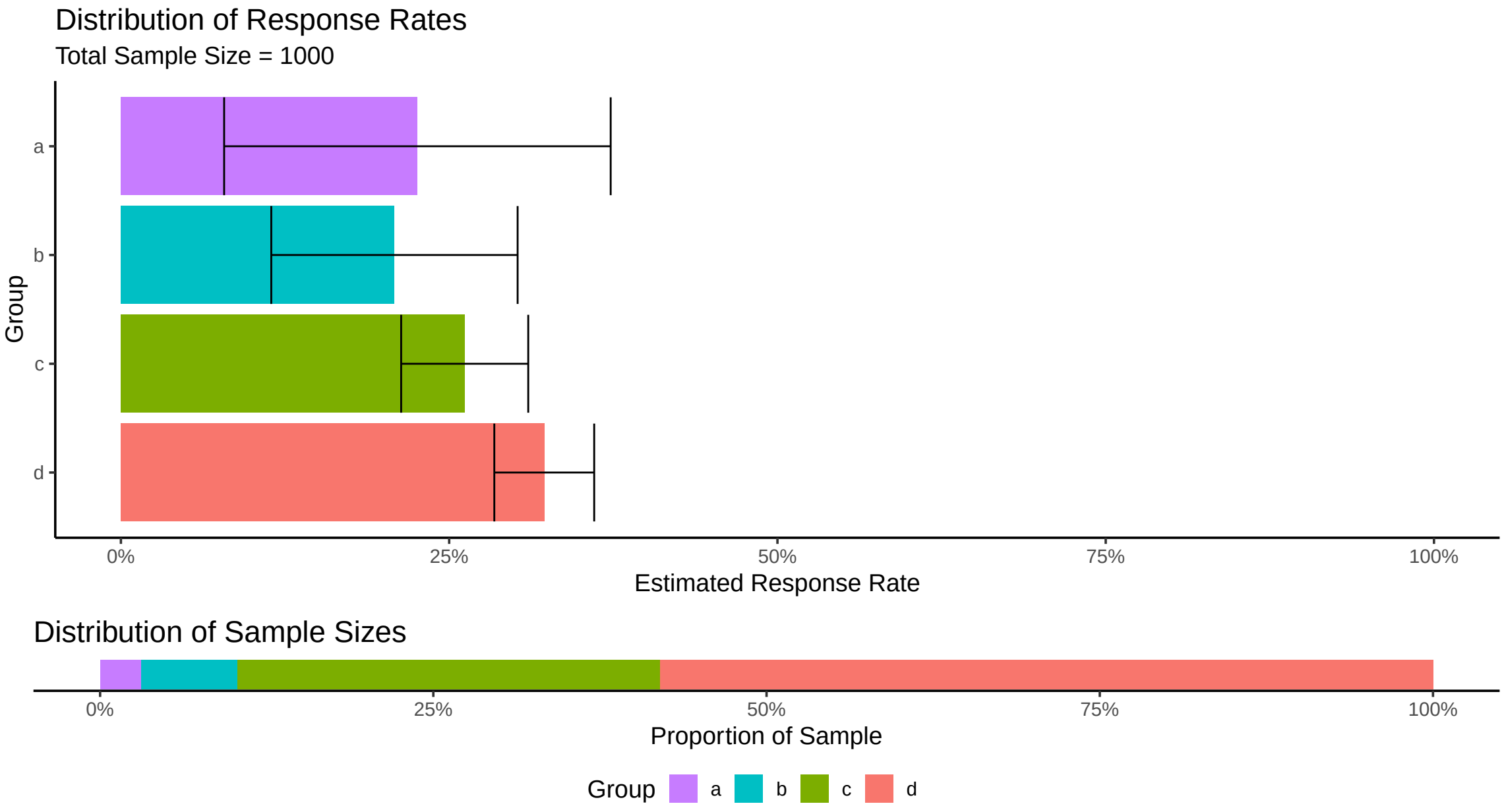
Epsilon Greedy: Sample Sizes and Respose Estimates



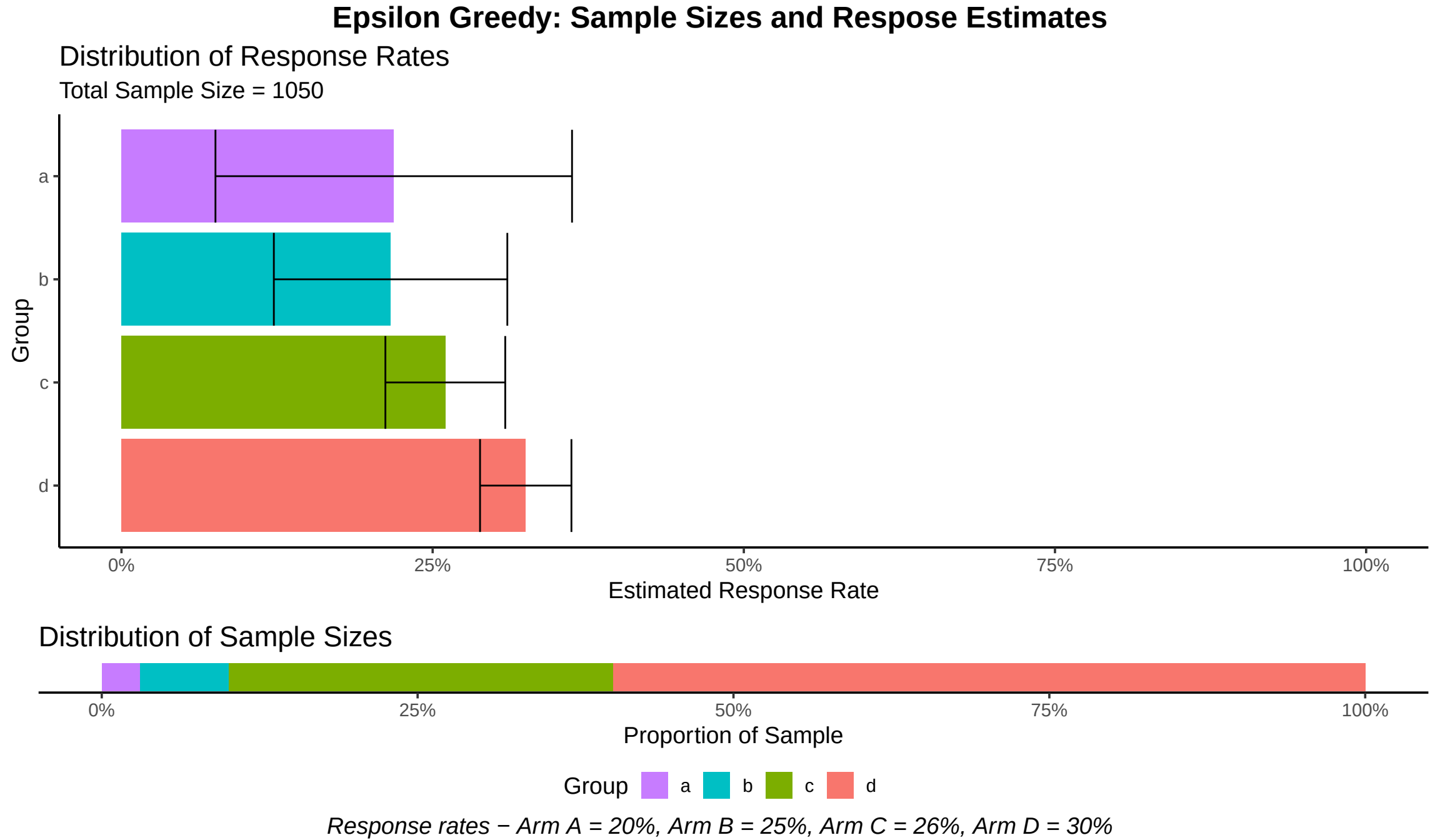
Epsilon Greedy: Sample Sizes and Respose Estimates

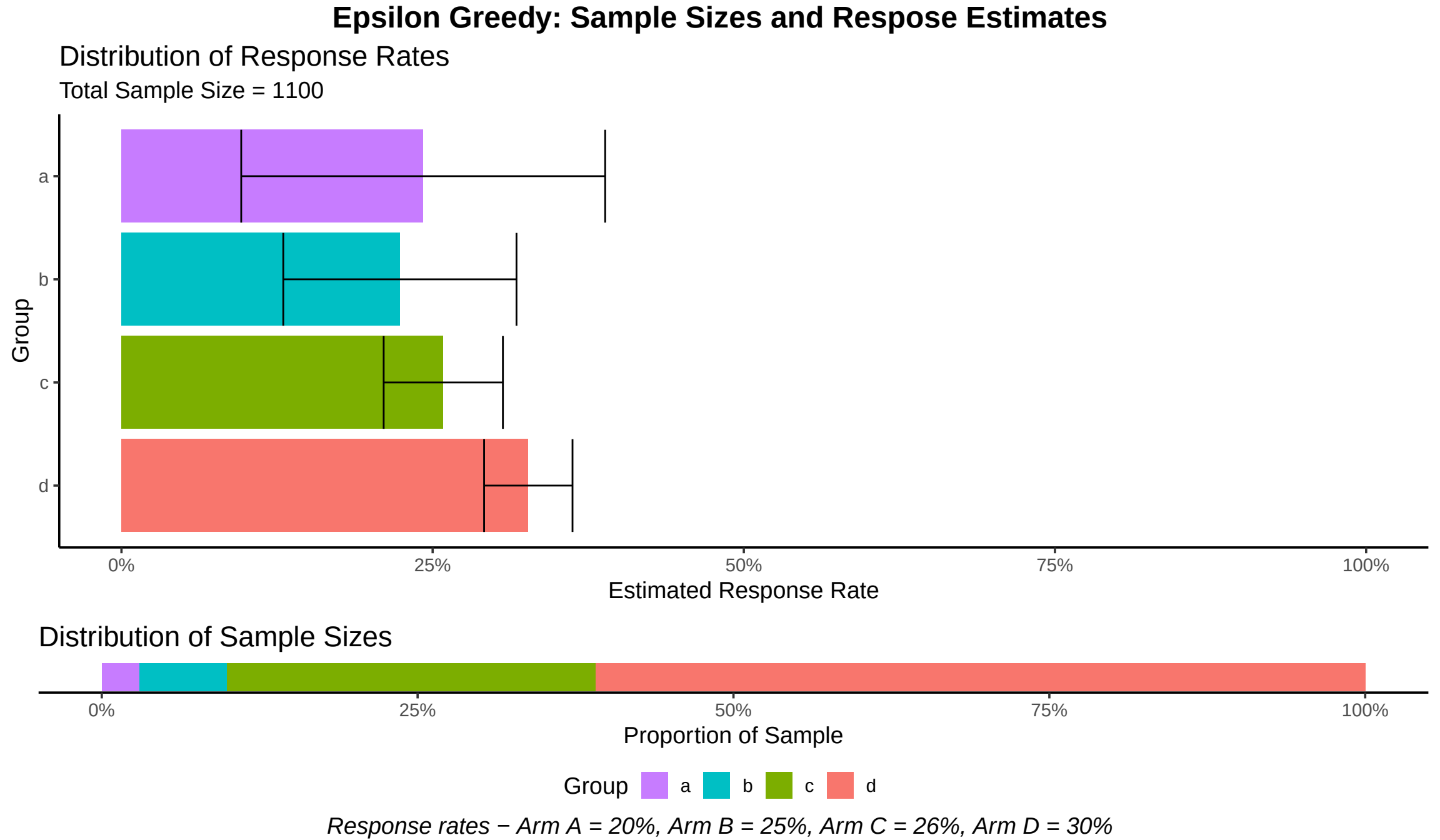


Epsilon Greedy: Sample Sizes and Respose Estimates

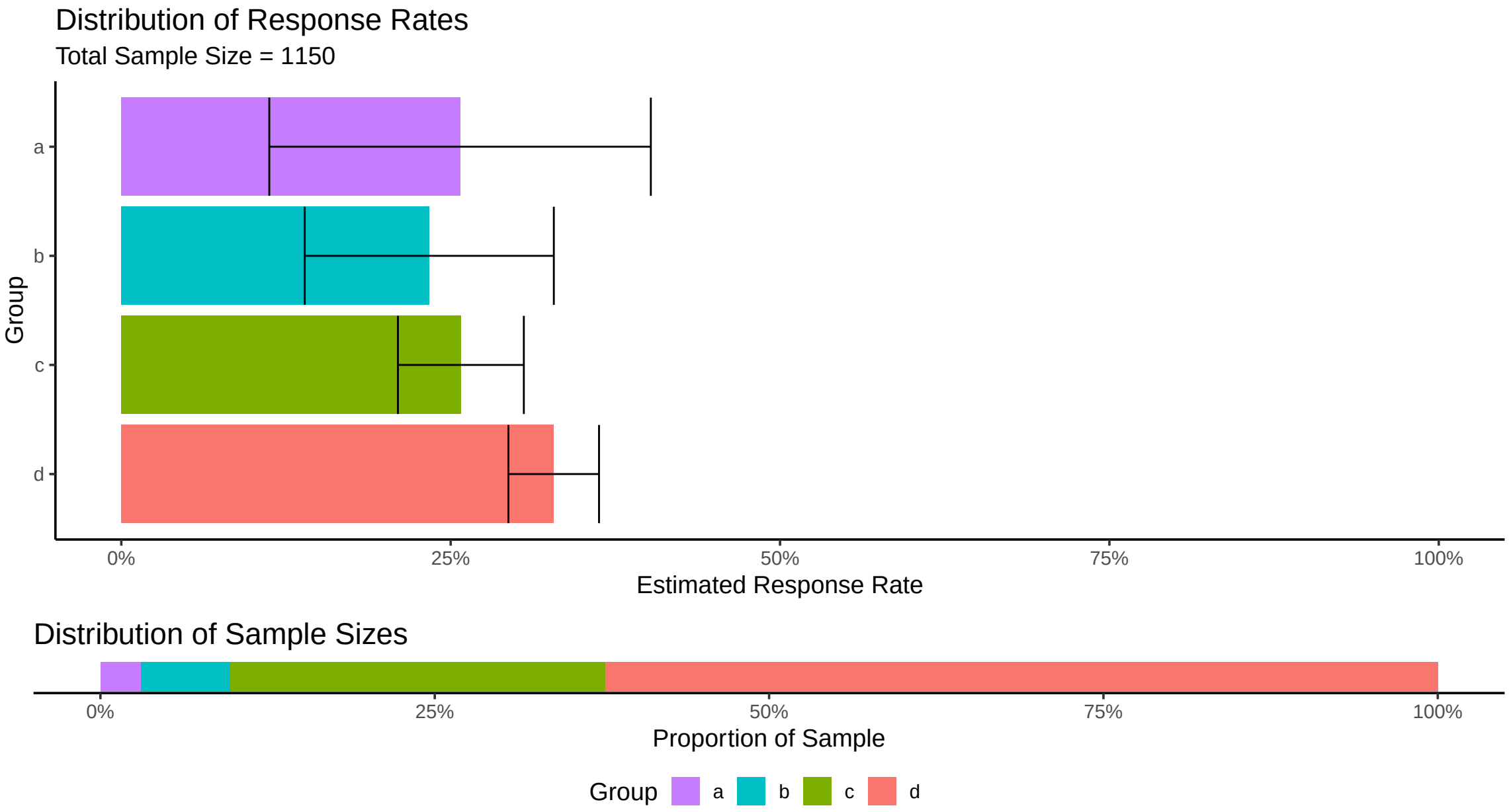


Response rates − Arm A = 20%, Arm B = 25%, Arm C = 26%, Arm D = 30%

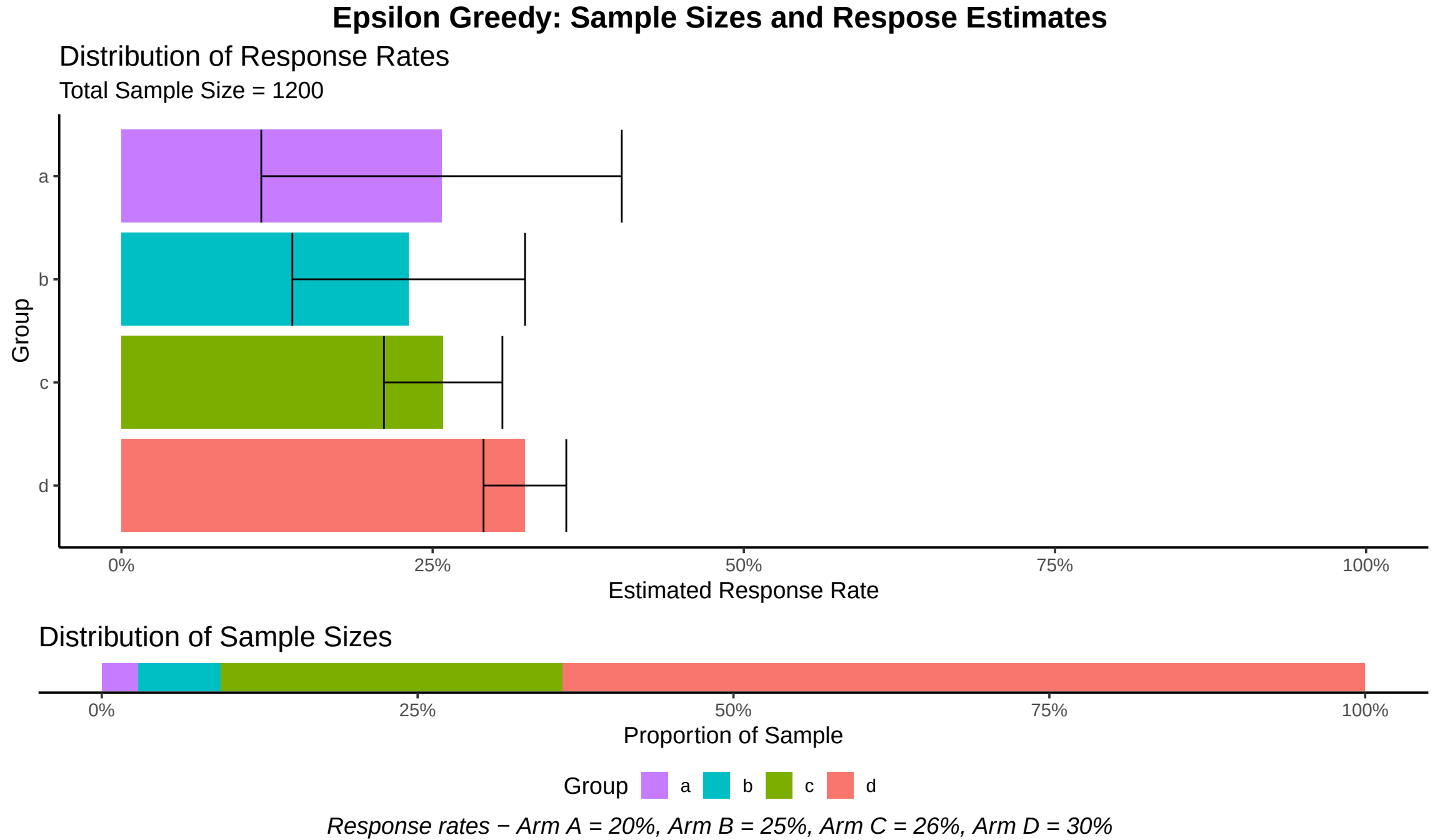

Epsilon Greedy: Sample Sizes and Respose Estimates
Distribution of Response Rates
Total Sample Size = 1050
Group
a
b
c
d
0%
25%
50%
75%
100%
Estimated Response Rate
Distribution of Sample Sizes
0%
25%
50%
75%
100%
Proportion of Sample
Group
a
b
c
d
Response rates − Arm A = 20%, Arm B = 25%, Arm C = 26%, Arm D = 30%


Epsilon Greedy: Sample Sizes and Respose Estimates
Distribution of Response Rates
Total Sample Size = 1100
Group
a
b
c
d
0%
25%
50%
75%
100%
Estimated Response Rate
Distribution of Sample Sizes
0%
25%
50%
75%
100%
Proportion of Sample
Group
a
b
c
d
Response rates − Arm A = 20%, Arm B = 25%, Arm C = 26%, Arm D = 30%

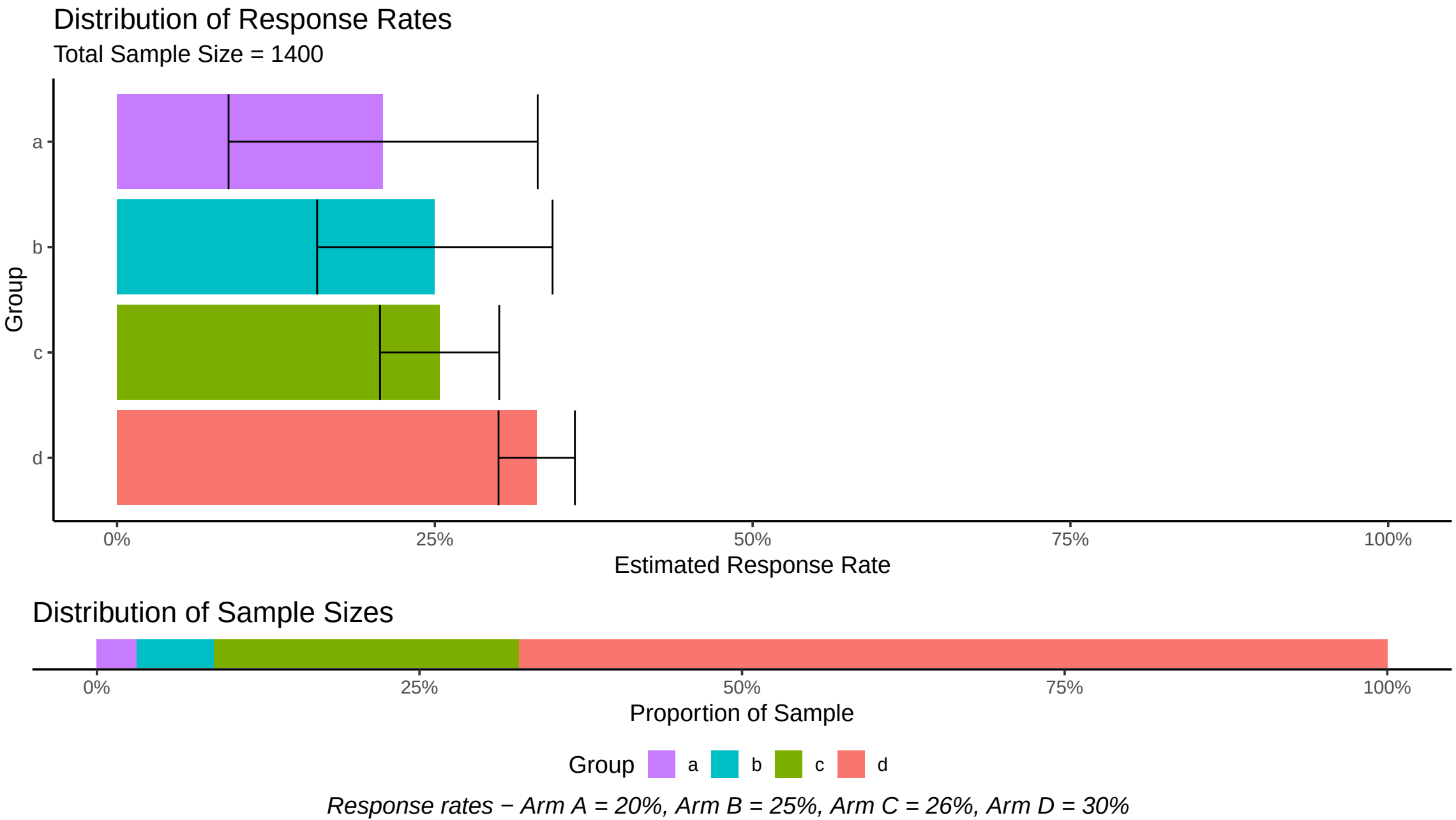
Epsilon Greedy: Sample Sizes and Respose Estimates



Response rates − Arm A = 20%, Arm B = 25%, Arm C = 26%, Arm D = 30%

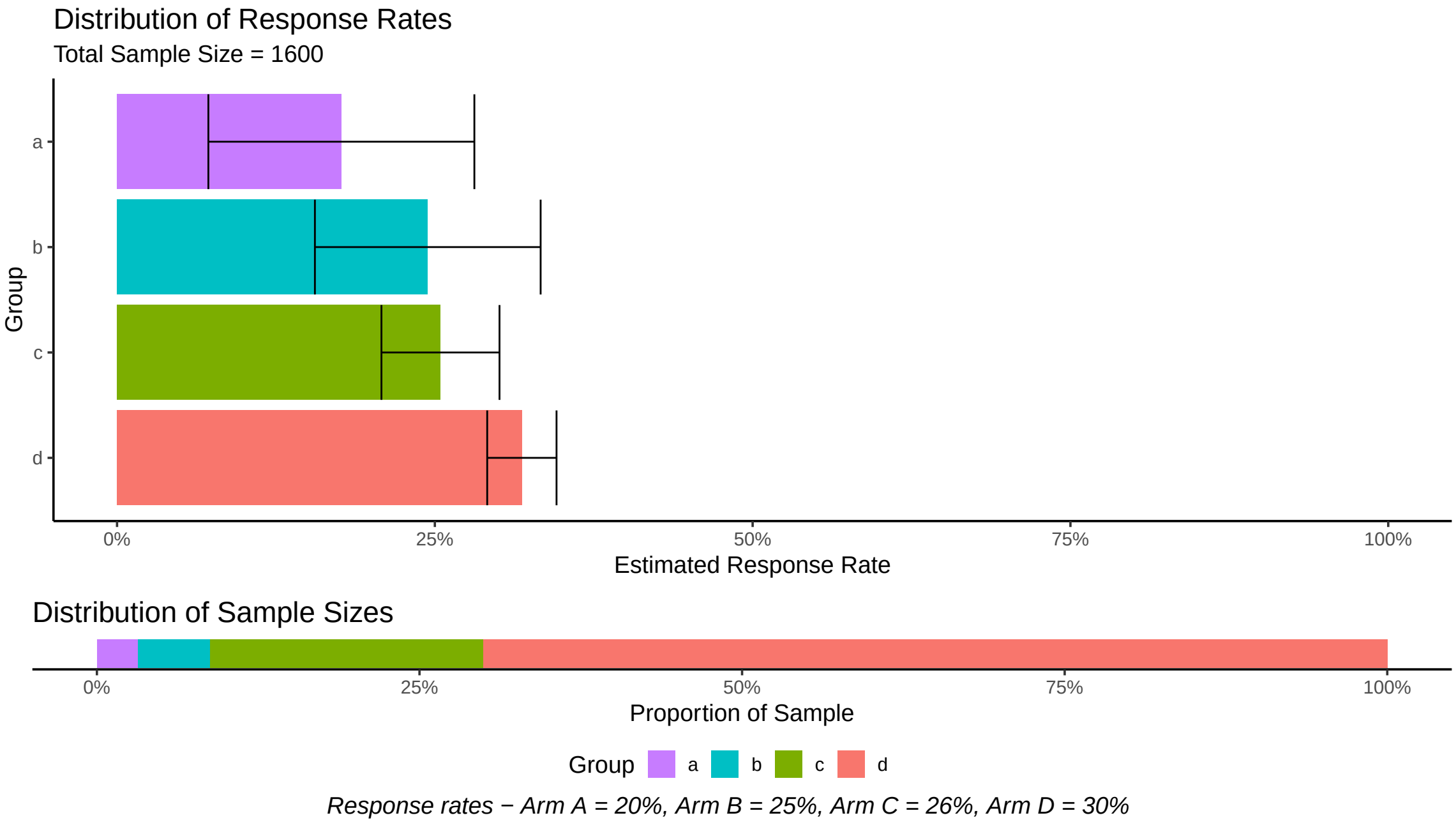

Epsilon Greedy: Sample Sizes and Respose Estimates
Distribution of Response Rates
Total Sample Size = 1200
Group
a
b
c
d
0%
25%
50%
75%
100%
Estimated Response Rate
Distribution of Sample Sizes
0%
25%
50%
75%
100%
Proportion of Sample
Group
a
b
c
d
Response rates − Arm A = 20%, Arm B = 25%, Arm C = 26%, Arm D = 30%

Epsilon Greedy: Sample Sizes and Respose Estimates

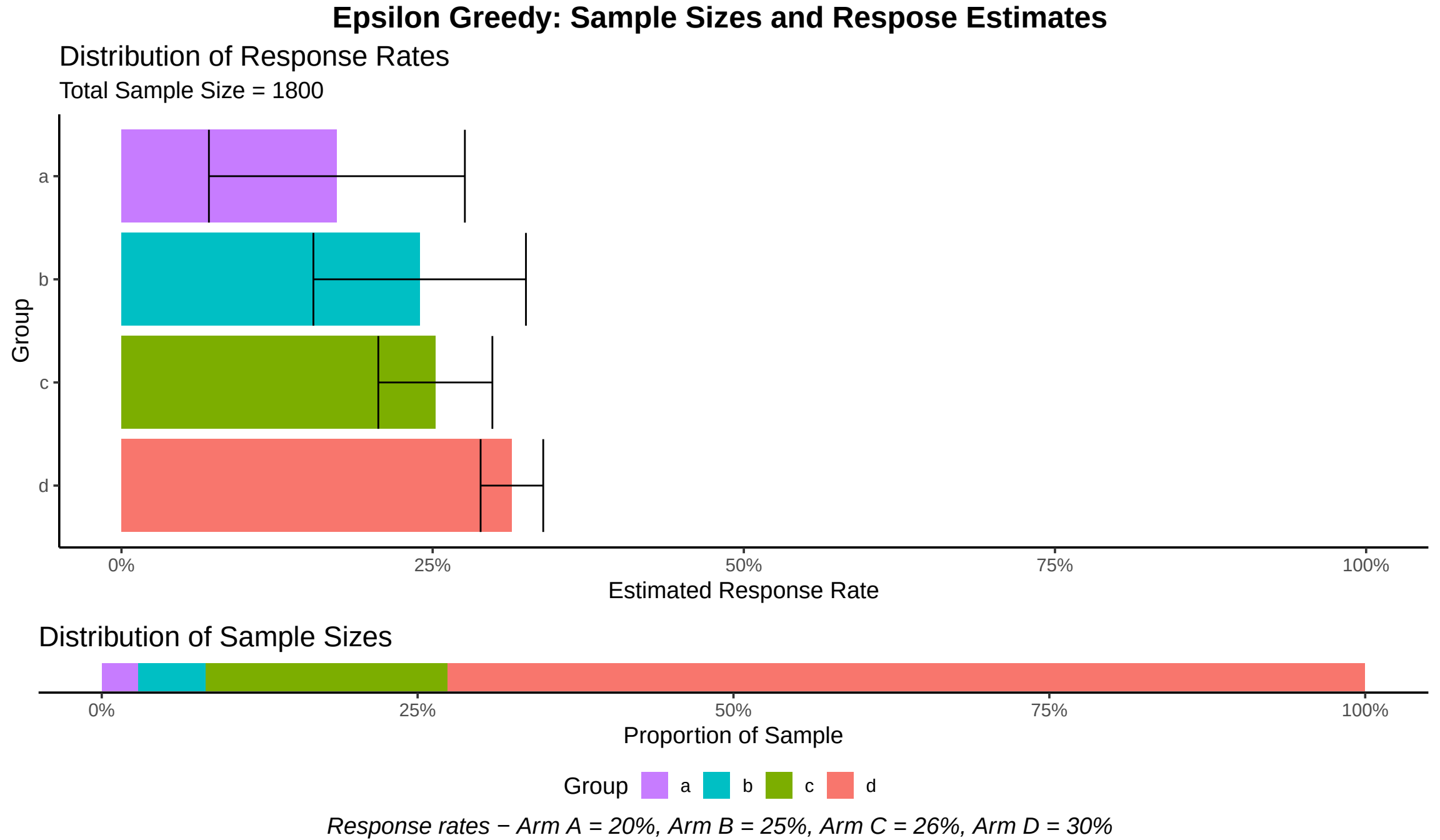


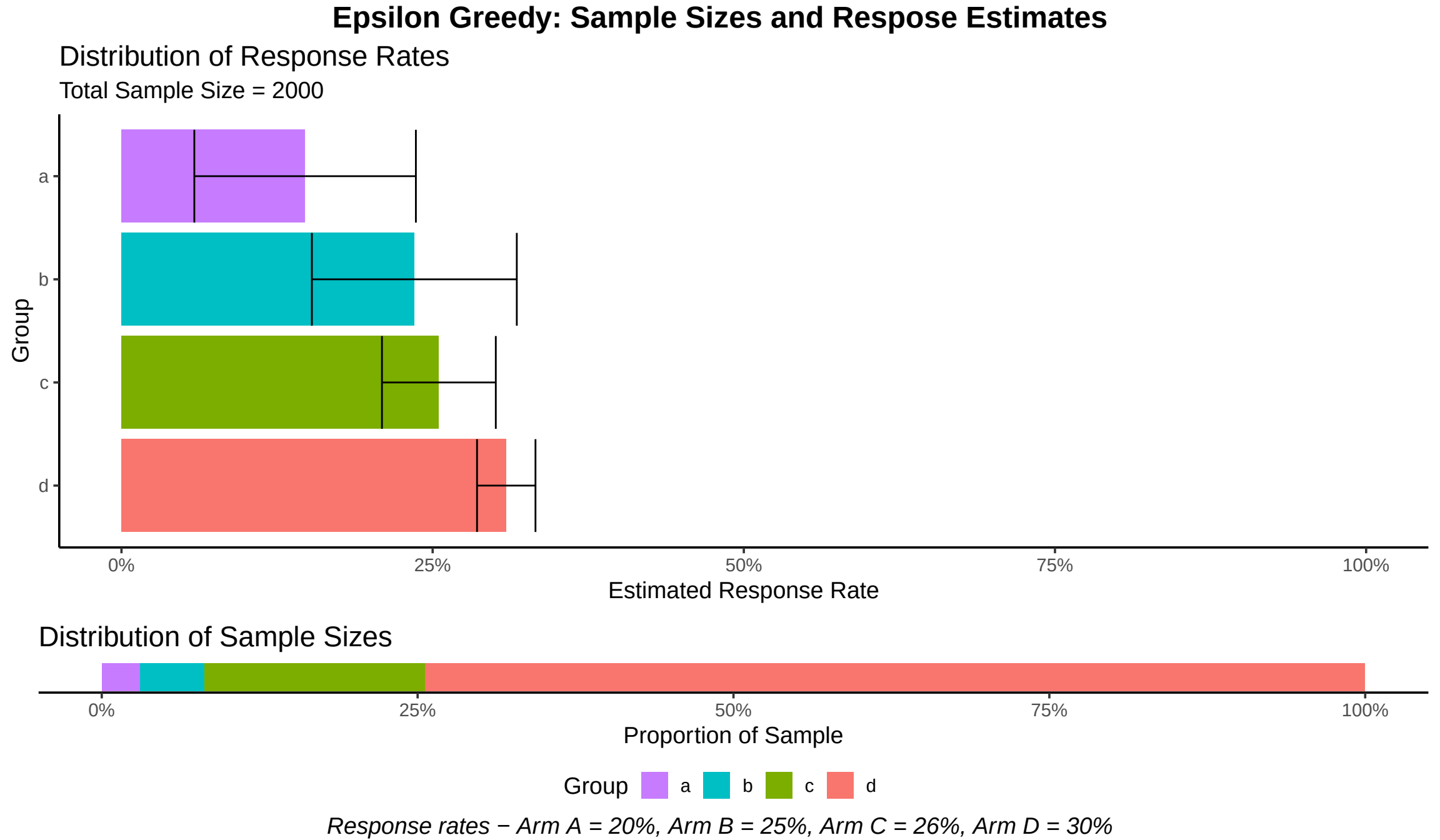
Response rates − Arm A = 20%, Arm B = 25%, Arm C = 26%, Arm D = 30%

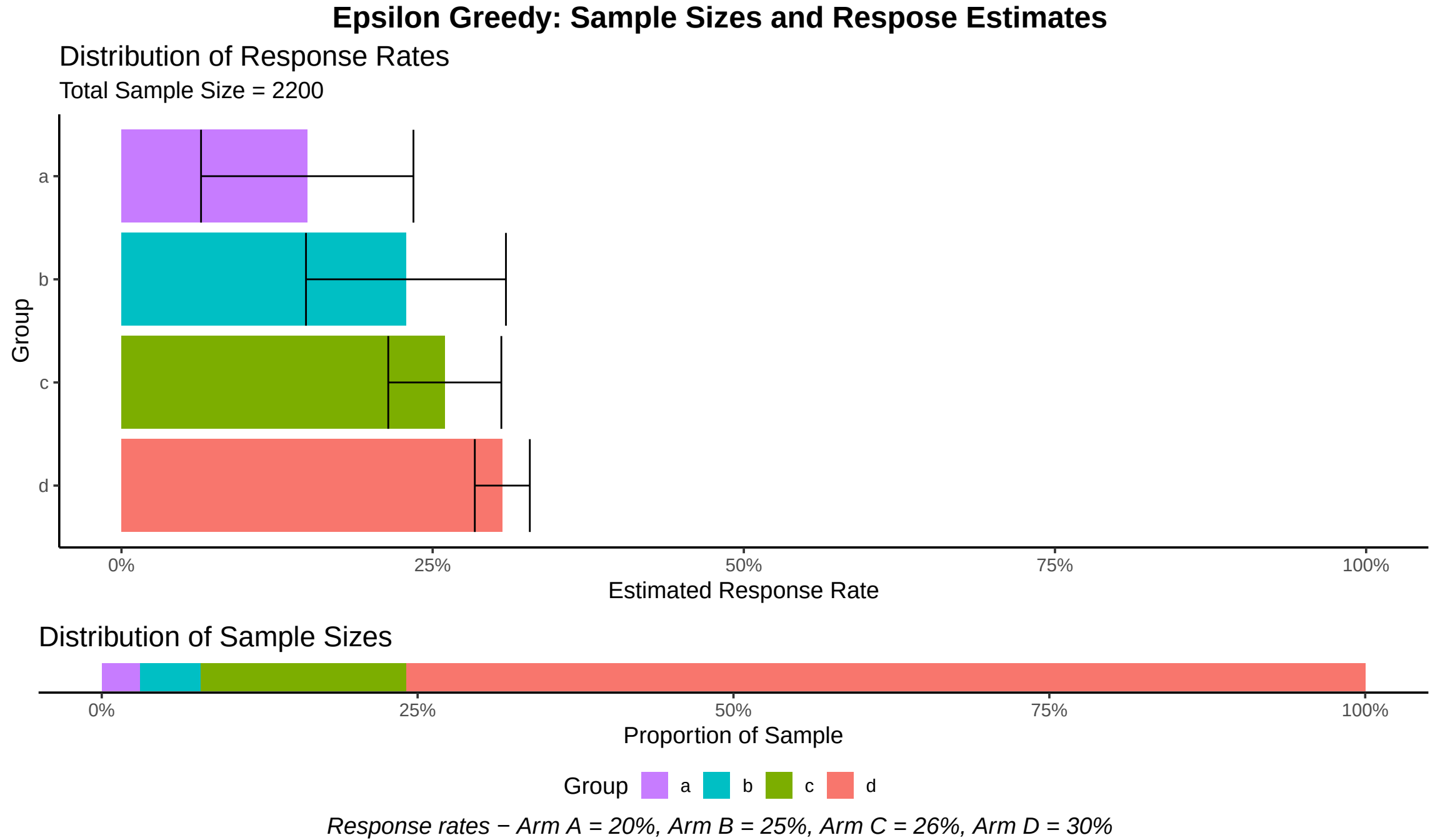
Epsilon Greedy: Sample Sizes and Respose Estimates



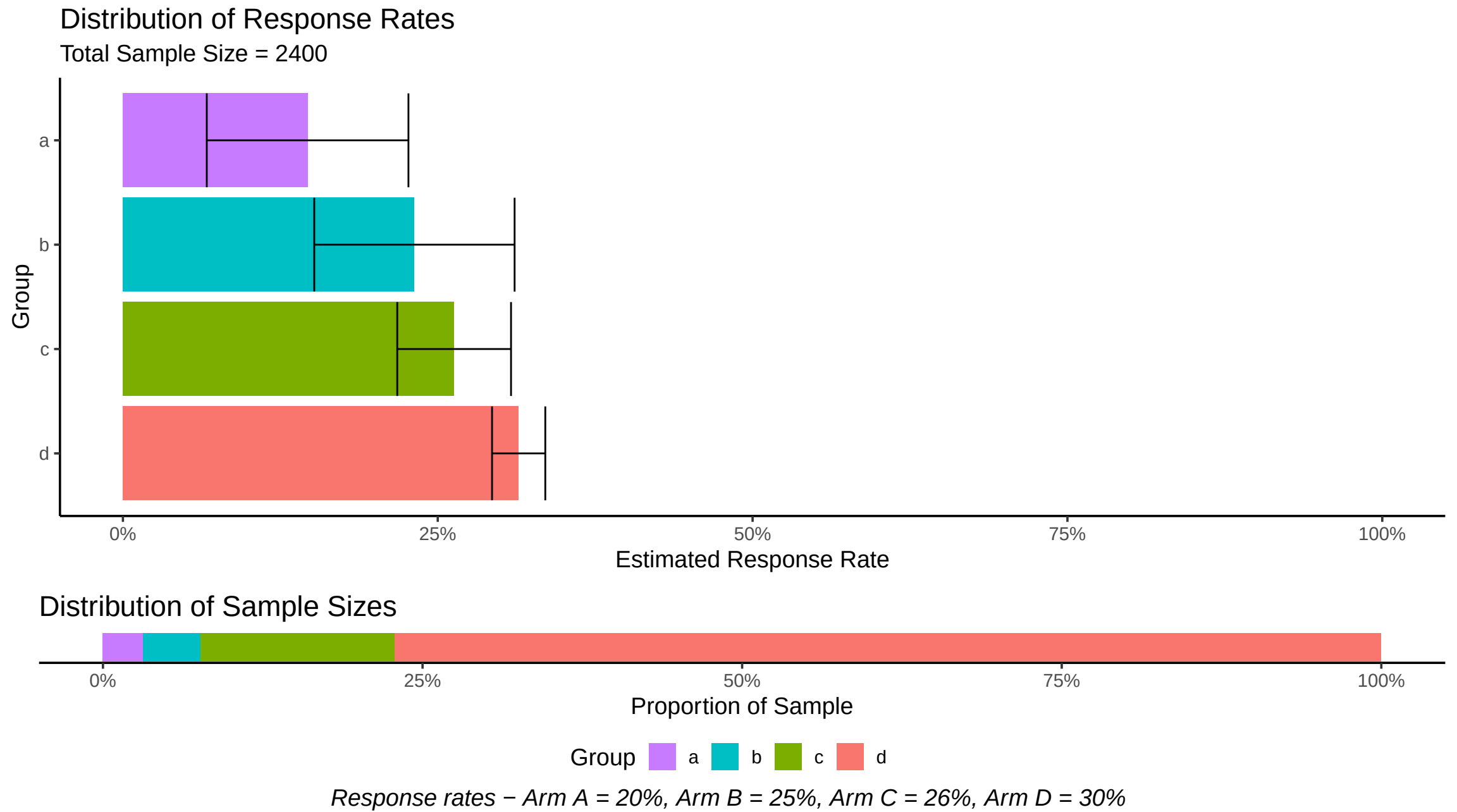
Response rates − Arm A = 20%, Arm B = 25%, Arm C = 26%, Arm D = 30%


Epsilon Greedy: Sample Sizes and Respose Estimates
Distribution of Response Rates
Total Sample Size = 1800
Group
a
b
c
d
0%
25%
50%
75%
100%
Estimated Response Rate
Distribution of Sample Sizes
0%
25%
50%
75%
100%
Proportion of Sample
Group
a
b
c
d
Response rates − Arm A = 20%, Arm B = 25%, Arm C = 26%, Arm D = 30%

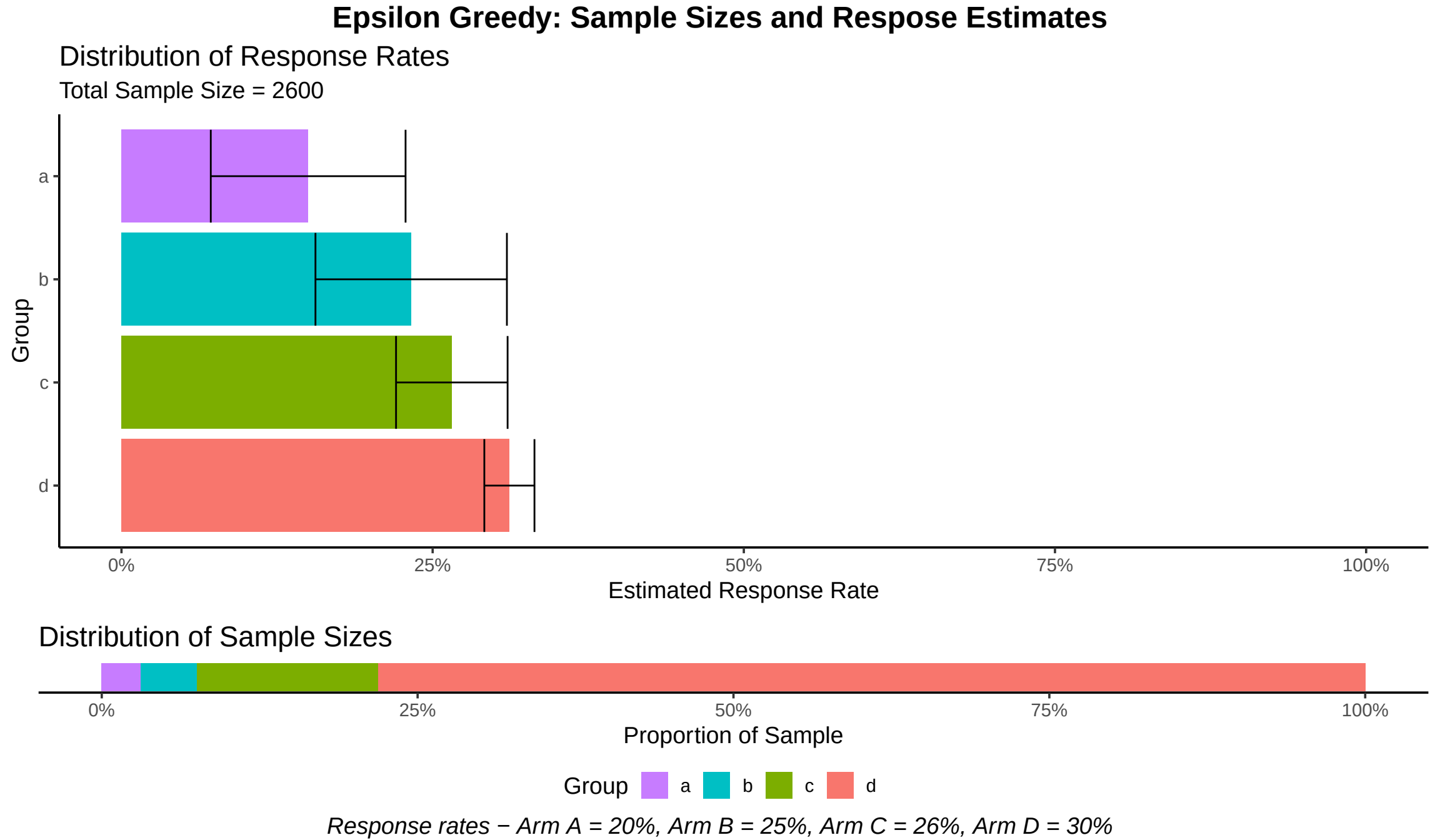

Epsilon Greedy: Sample Sizes and Respose Estimates
Distribution of Response Rates
Total Sample Size = 2000
Group
a
b
c
d
0%
25%
50%
75%
100%
Estimated Response Rate
Distribution of Sample Sizes
0%
25%
50%
75%
100%
Proportion of Sample
Group
a
b
c
d
Response rates − Arm A = 20%, Arm B = 25%, Arm C = 26%, Arm D = 30%


Epsilon Greedy: Sample Sizes and Respose Estimates
Distribution of Response Rates
Total Sample Size = 2200
Group
a
b
c
d
0%
25%
50%
75%
100%
Estimated Response Rate
Distribution of Sample Sizes
0%
25%
50%
75%
100%
Proportion of Sample
Group
a
b
c
d
Response rates − Arm A = 20%, Arm B = 25%, Arm C = 26%, Arm D = 30%

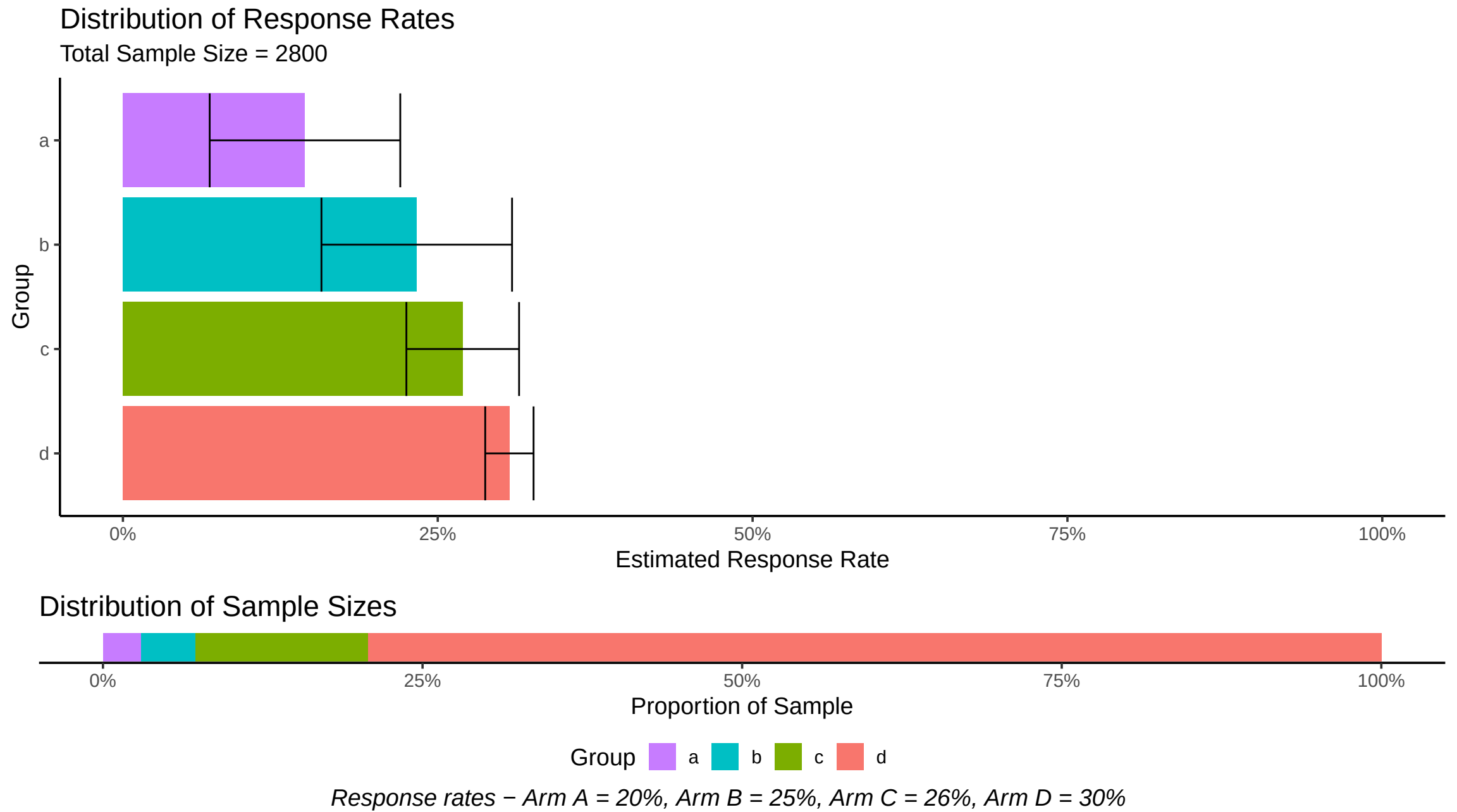
Epsilon Greedy: Sample Sizes and Respose Estimates



Response rates − Arm A = 20%, Arm B = 25%, Arm C = 26%, Arm D = 30%

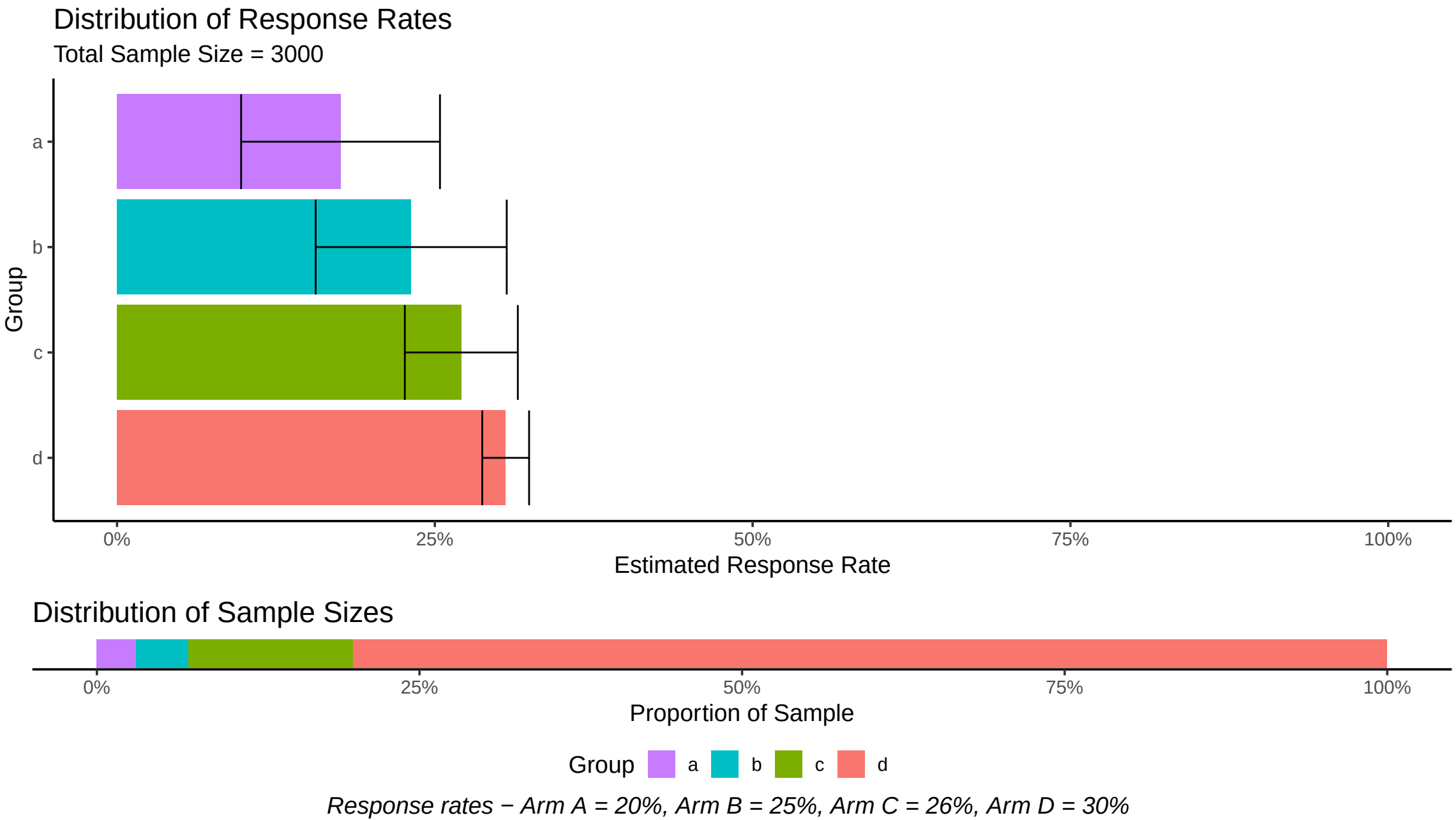

Epsilon Greedy: Sample Sizes and Respose Estimates
Distribution of Response Rates
Total Sample Size = 2600
Group
a
b
c
d
0%
25%
50%
75%
100%
Estimated Response Rate
Distribution of Sample Sizes
0%
25%
50%
75%
100%
Proportion of Sample
Group
a
b
c
d
Response rates − Arm A = 20%, Arm B = 25%, Arm C = 26%, Arm D = 30%

Epsilon Greedy: Sample Sizes and Respose Estimates



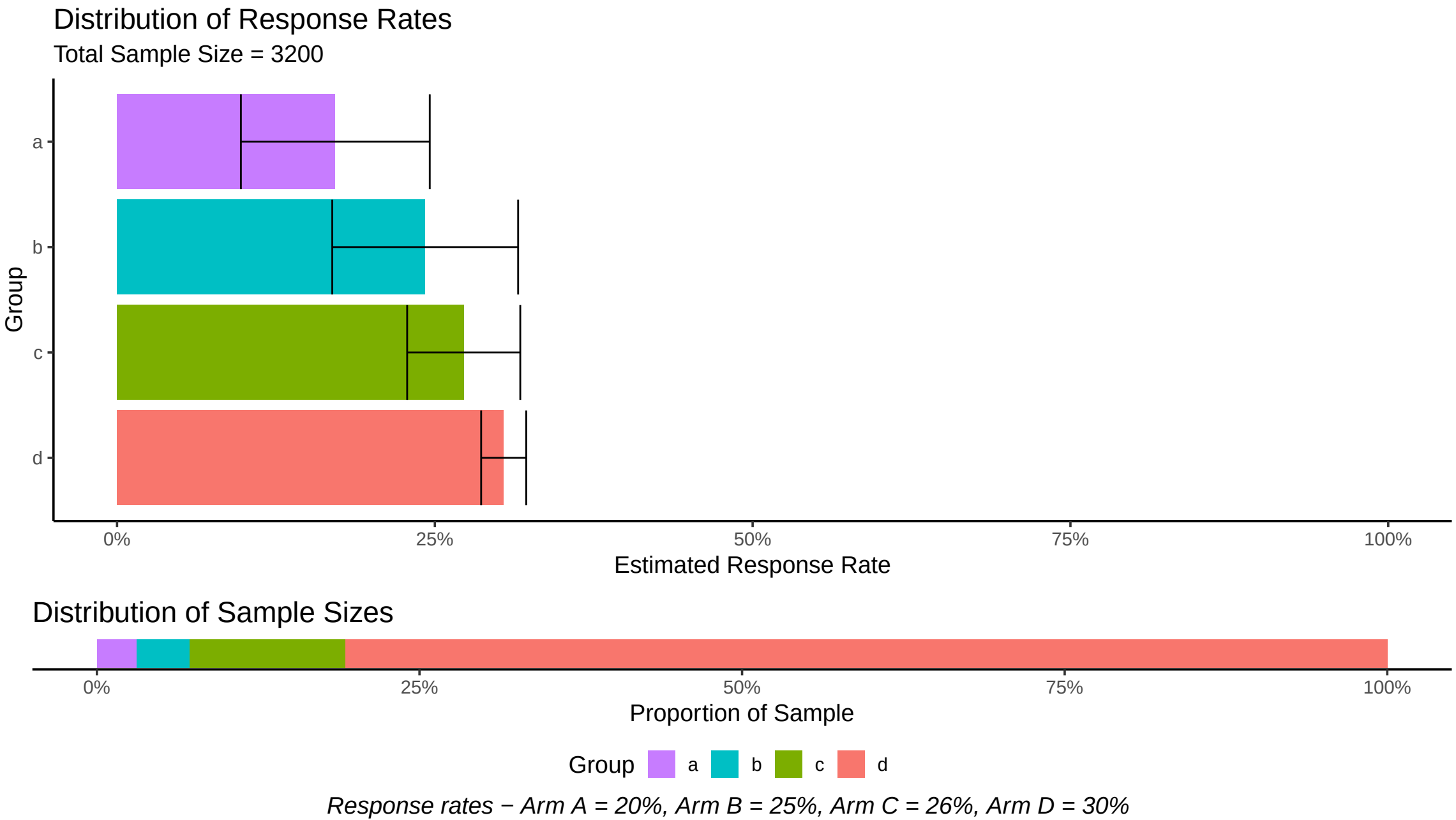
Response rates − Arm A = 20%, Arm B = 25%, Arm C = 26%, Arm D = 30%

Epsilon Greedy: Sample Sizes and Respose Estimates

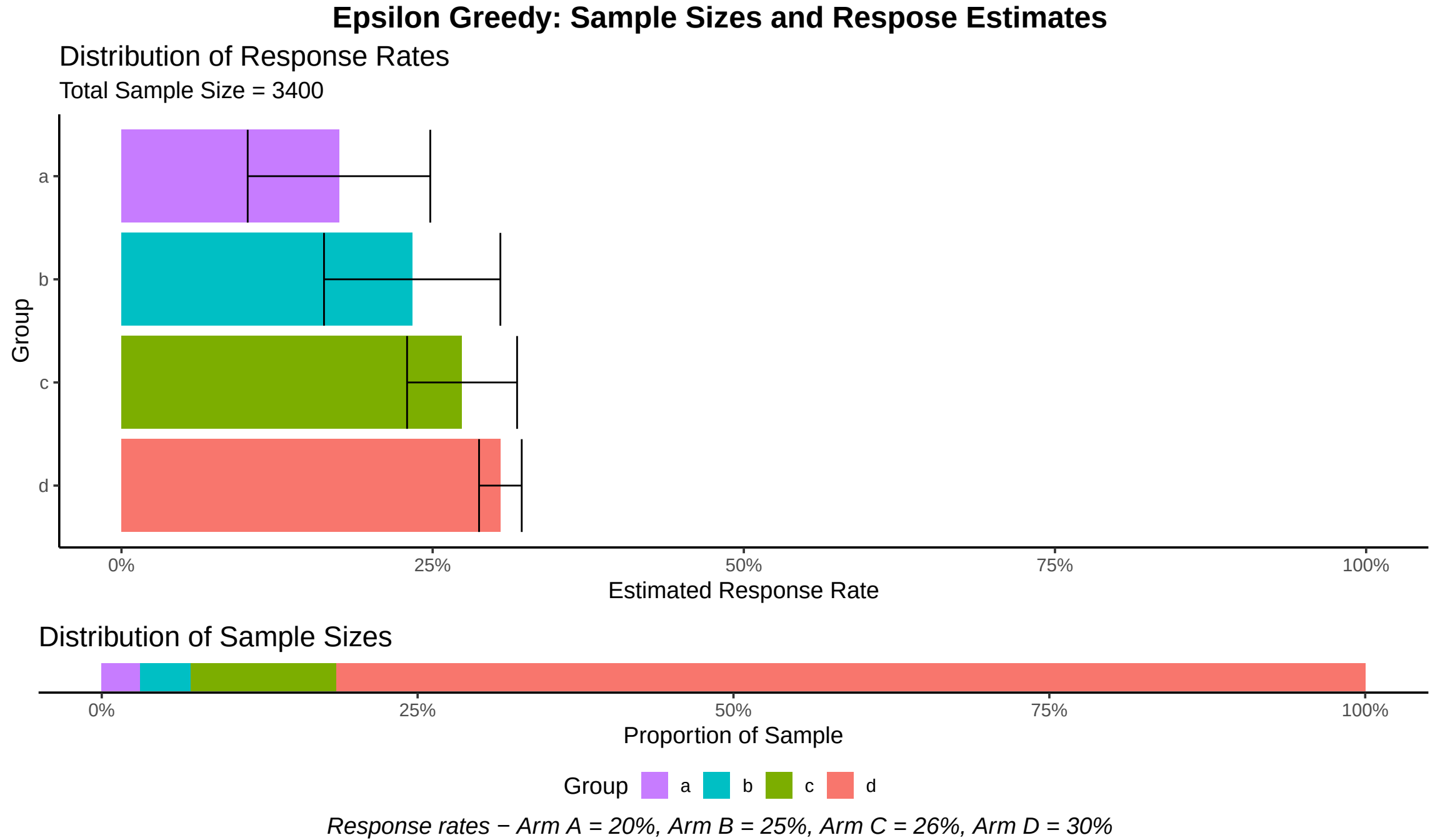


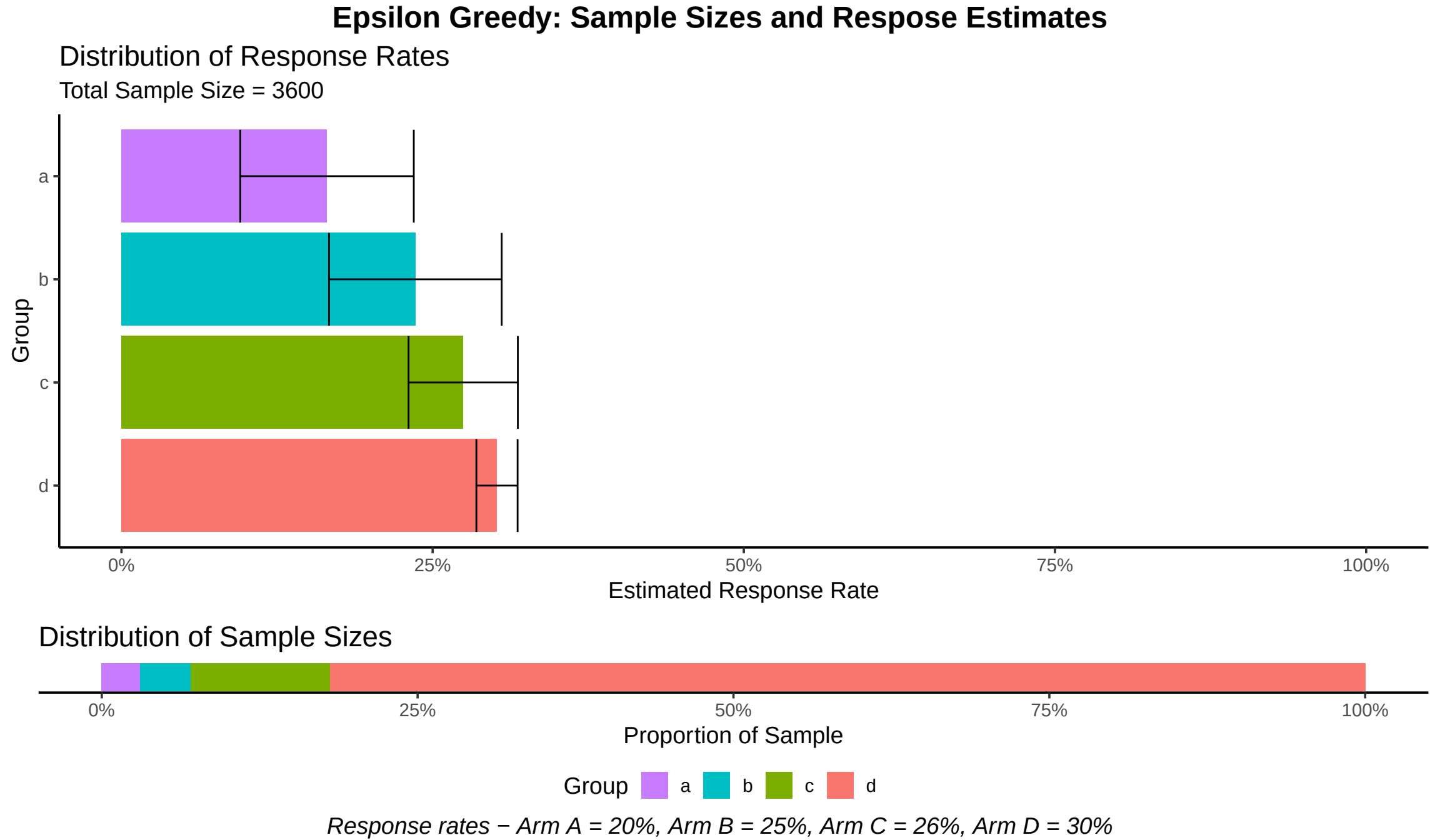
Response rates − Arm A = 20%, Arm B = 25%, Arm C = 26%, Arm D = 30%

Epsilon Greedy: Sample Sizes and Respose Estimates

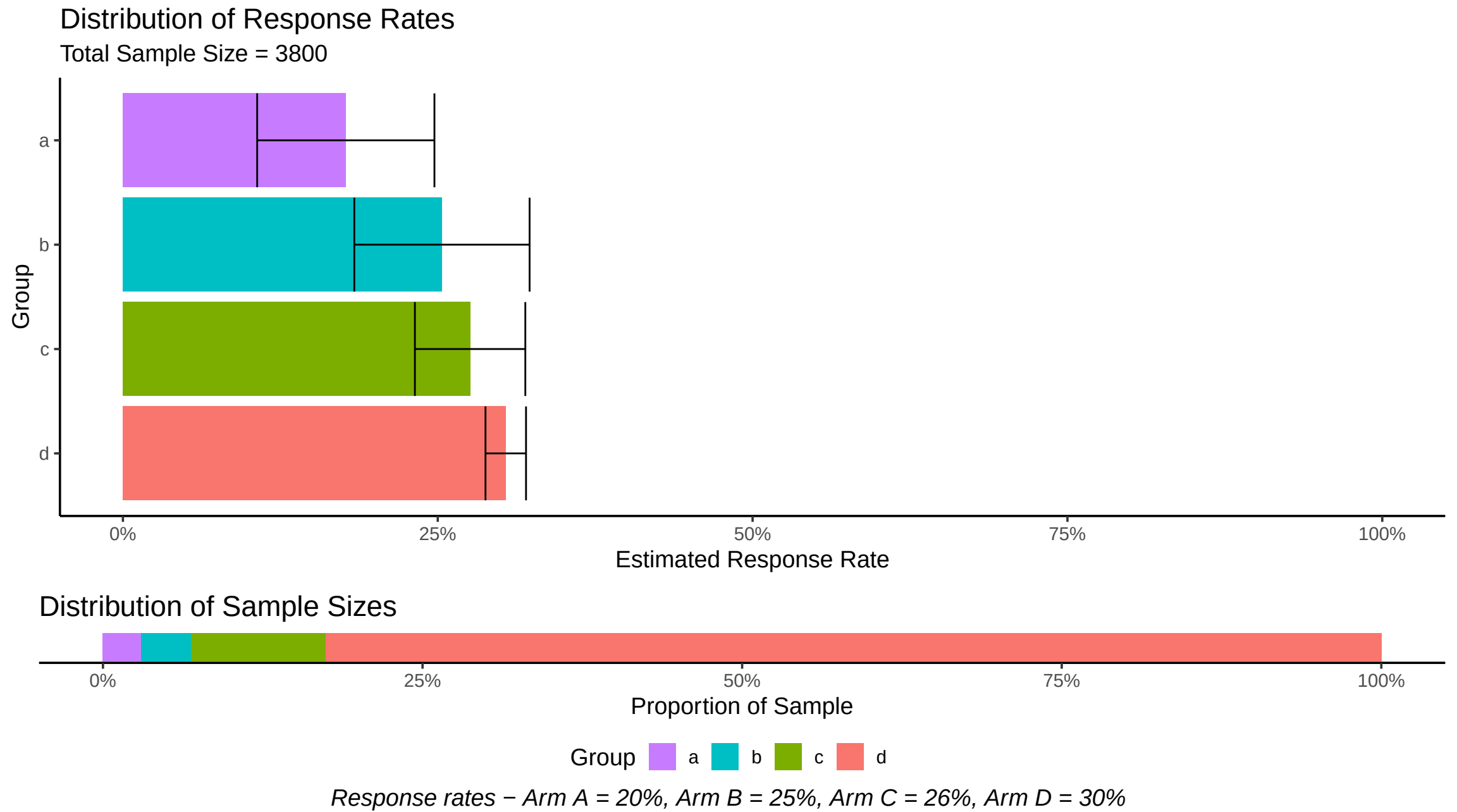


Response rates − Arm A = 20%, Arm B = 25%, Arm C = 26%, Arm D = 30%

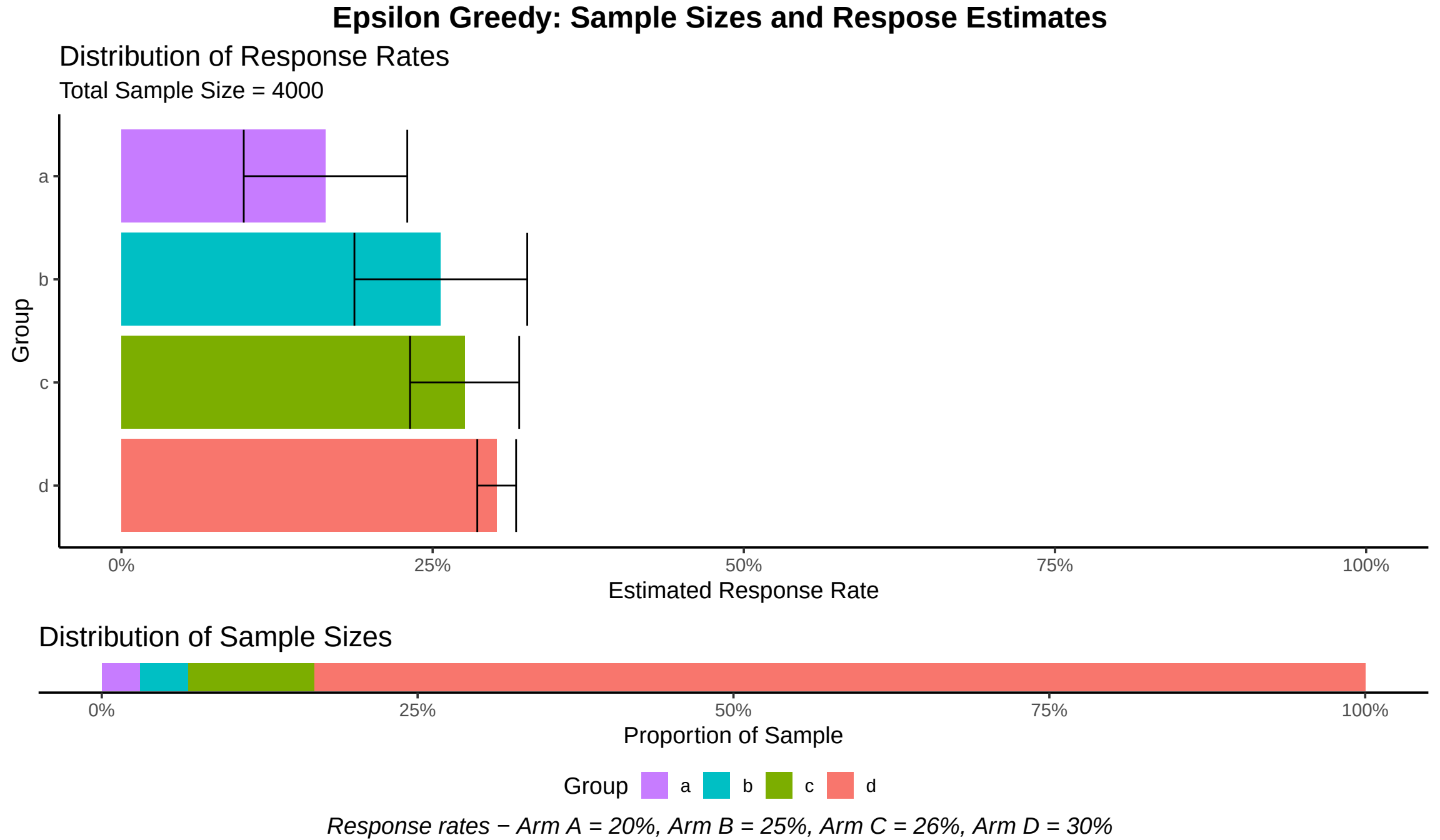

Epsilon Greedy: Sample Sizes and Respose Estimates
Distribution of Response Rates
Total Sample Size = 3400
Group
a
b
c
d
0%
25%
50%
75%
100%
Estimated Response Rate
Distribution of Sample Sizes
0%
25%
50%
75%
100%
Proportion of Sample
Group
a
b
c
d
Response rates − Arm A = 20%, Arm B = 25%, Arm C = 26%, Arm D = 30%


Epsilon Greedy: Sample Sizes and Respose Estimates
Distribution of Response Rates
Total Sample Size = 3600
Group
a
b
c
d
0%
25%
50%
75%
100%
Estimated Response Rate
Distribution of Sample Sizes
0%
25%
50%
75%
100%
Proportion of Sample
Group
a
b
c
d
Response rates − Arm A = 20%, Arm B = 25%, Arm C = 26%, Arm D = 30%

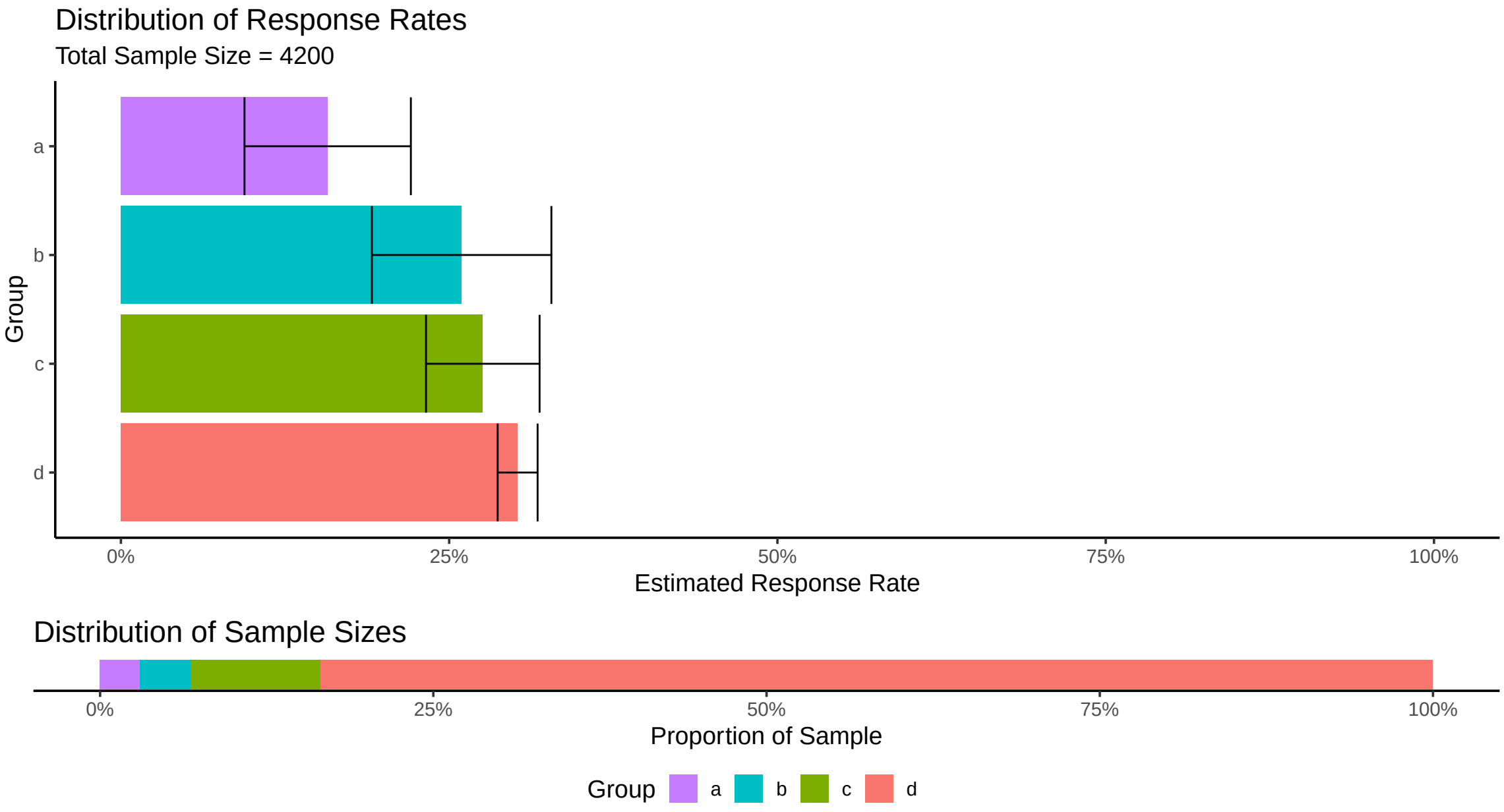
Epsilon Greedy: Sample Sizes and Respose Estimates



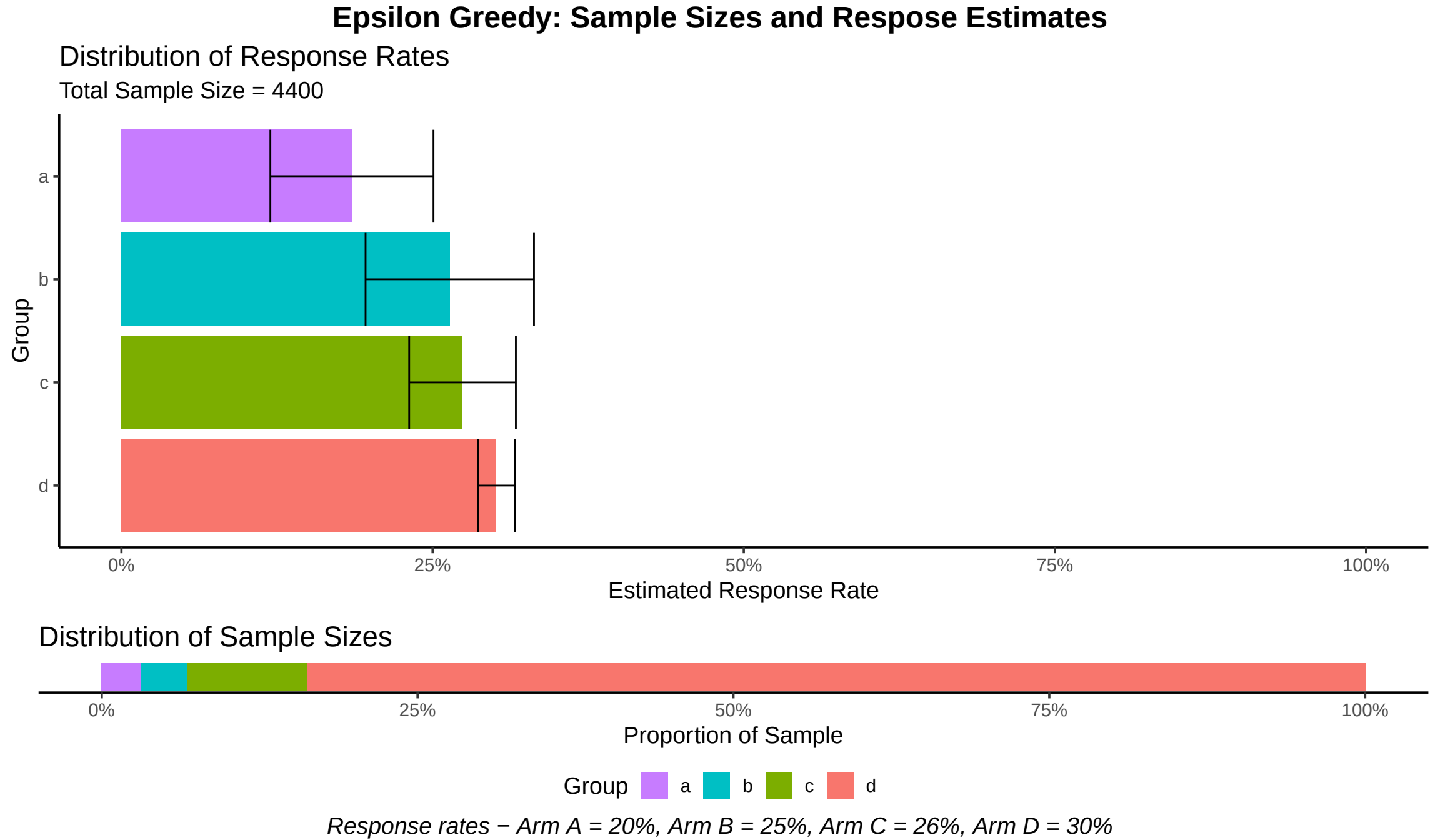
Response rates − Arm A = 20%, Arm B = 25%, Arm C = 26%, Arm D = 30%

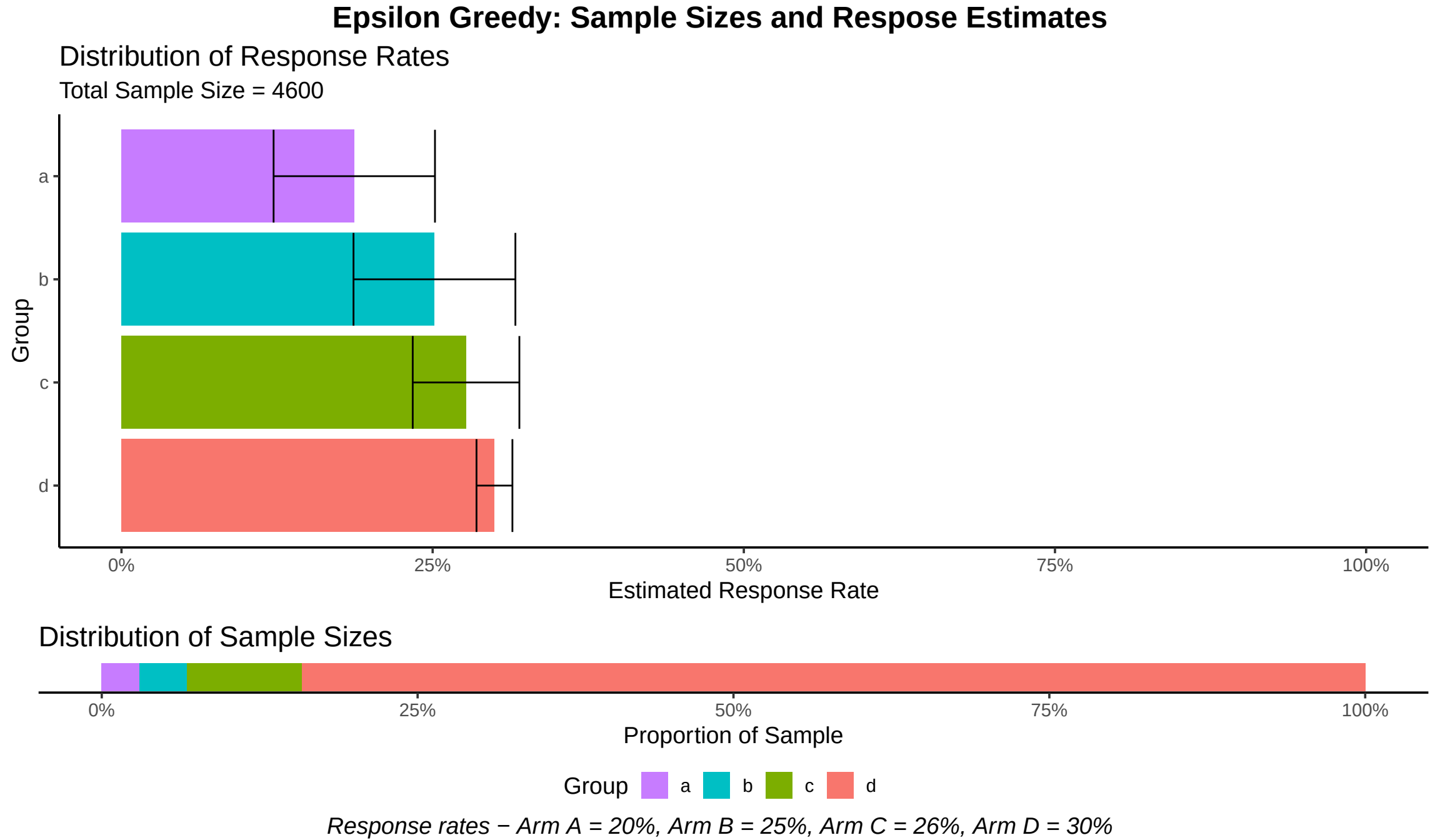

Epsilon Greedy: Sample Sizes and Respose Estimates
Distribution of Response Rates
Total Sample Size = 4000
Group
a
b
c
d
0%
25%
50%
75%
100%
Estimated Response Rate
Distribution of Sample Sizes
0%
25%
50%
75%
100%
Proportion of Sample
Group
a
b
c
d
Response rates − Arm A = 20%, Arm B = 25%, Arm C = 26%, Arm D = 30%

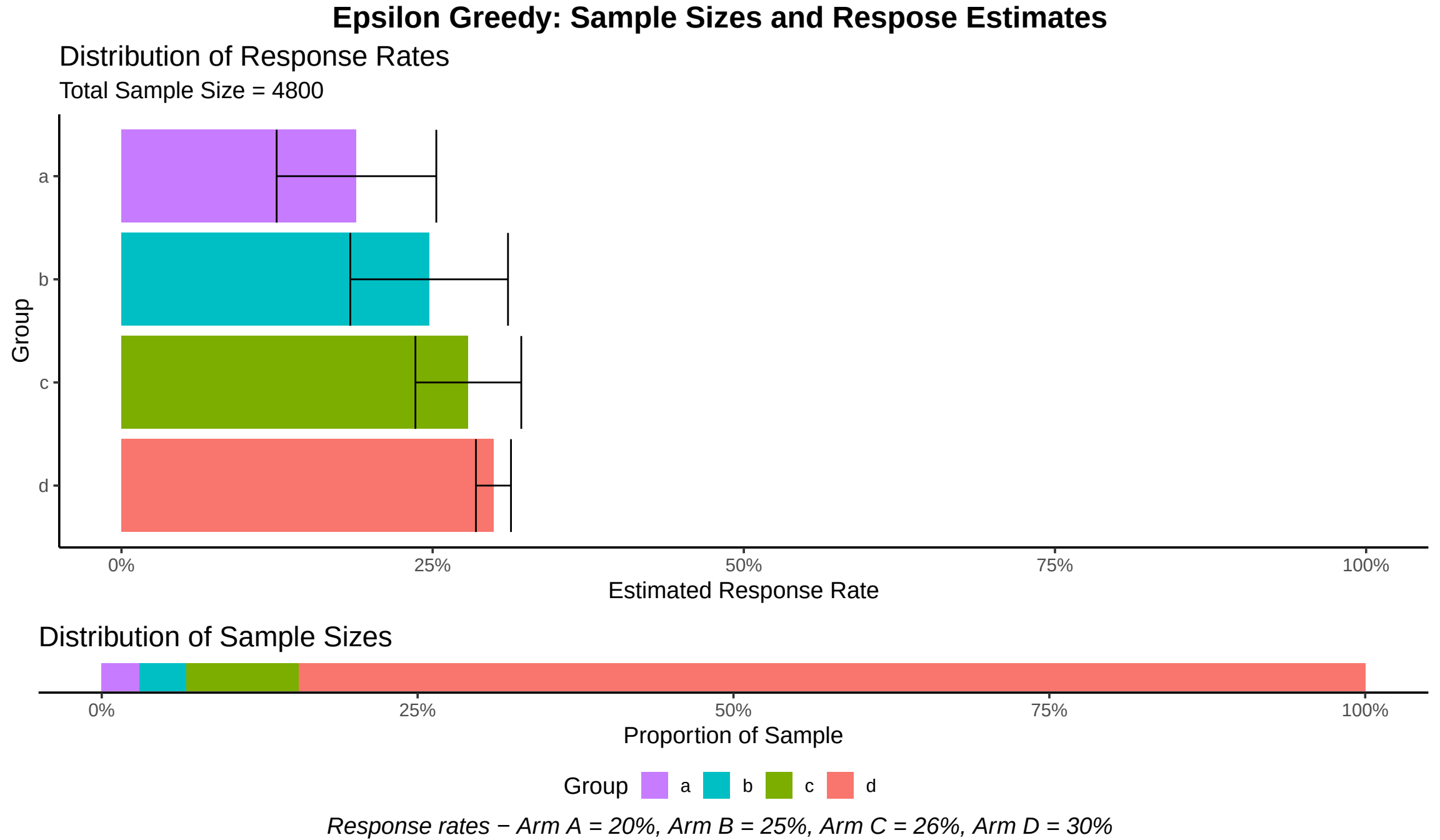
Epsilon Greedy: Sample Sizes and Respose Estimates

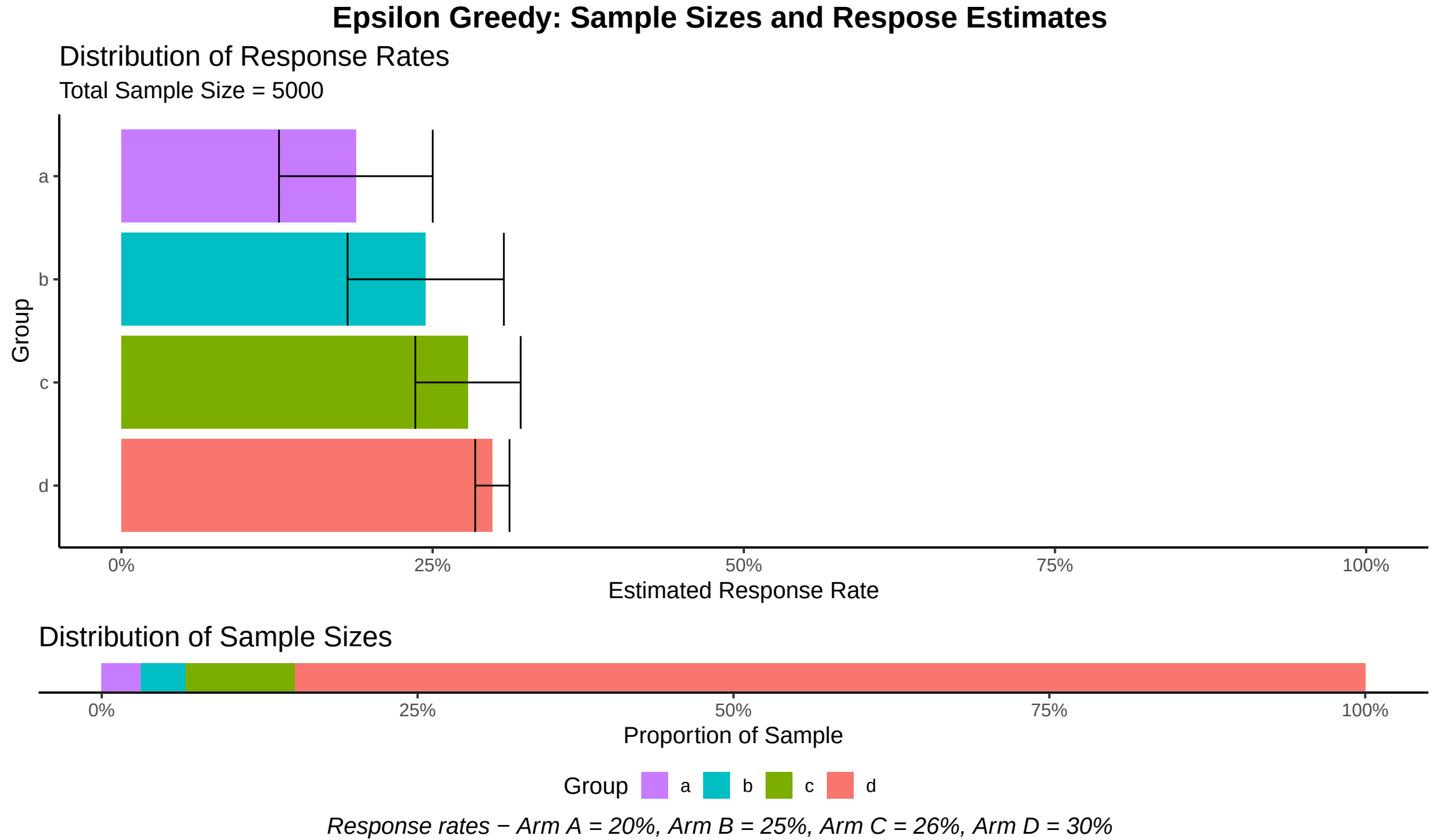


Response rates − Arm A = 20%, Arm B = 25%, Arm C = 26%, Arm D = 30%

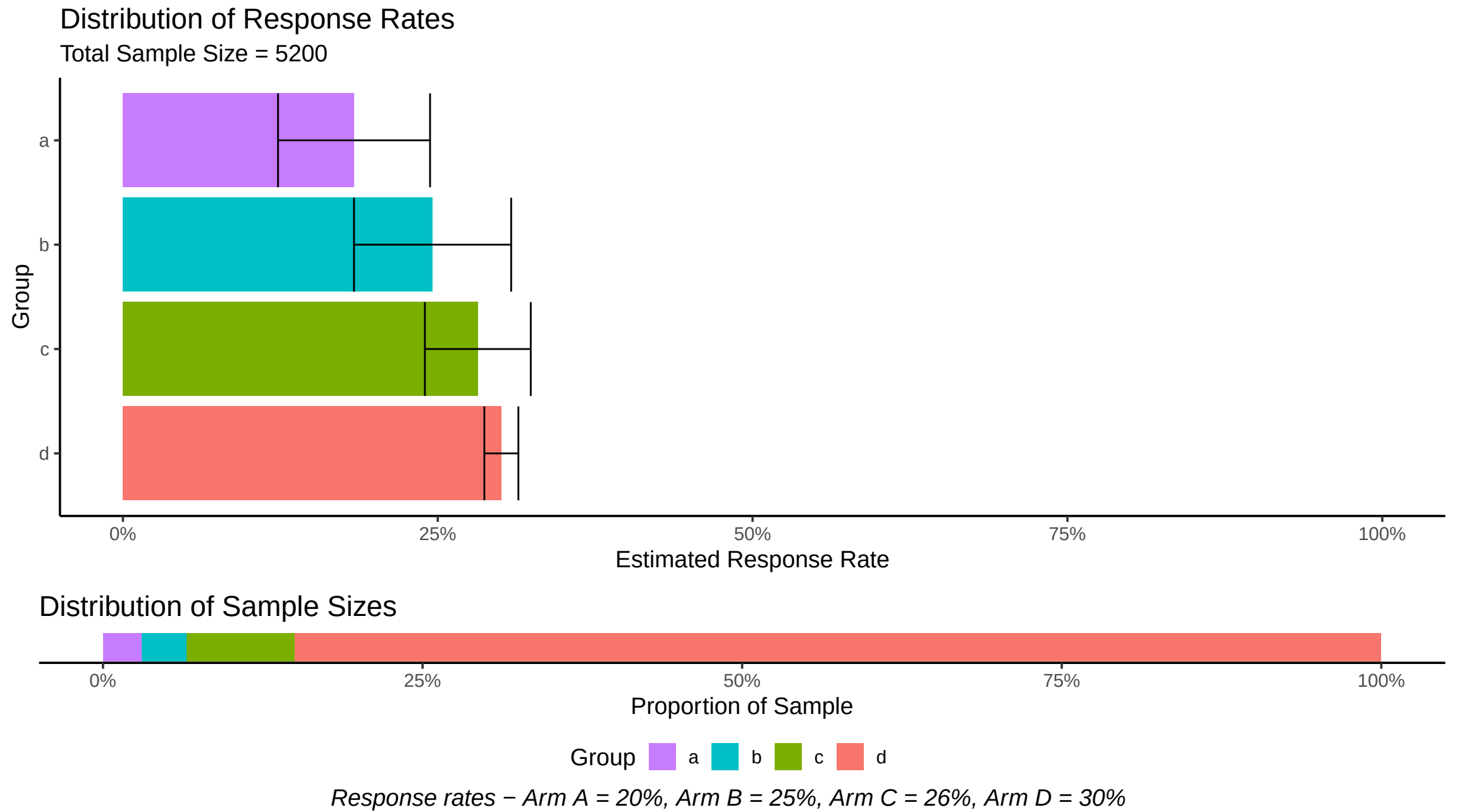

Epsilon Greedy: Sample Sizes and Respose Estimates
Distribution of Response Rates
Total Sample Size = 4400
Group
a
b
c
d
0%
25%
50%
75%
100%
Estimated Response Rate
Distribution of Sample Sizes
0%
25%
50%
75%
100%
Proportion of Sample
Group
a
b
c
d
Response rates − Arm A = 20%, Arm B = 25%, Arm C = 26%, Arm D = 30%


Epsilon Greedy: Sample Sizes and Respose Estimates
Distribution of Response Rates
Total Sample Size = 4600
Group
a
b
c
d
0%
25%
50%
75%
100%
Estimated Response Rate
Distribution of Sample Sizes
0%
25%
50%
75%
100%
Proportion of Sample
Group
a
b
c
d
Response rates − Arm A = 20%, Arm B = 25%, Arm C = 26%, Arm D = 30%


Epsilon Greedy: Sample Sizes and Respose Estimates
Distribution of Response Rates
Total Sample Size = 4800
Group
a
b
c
d
0%
25%
50%
75%
100%
Estimated Response Rate
Distribution of Sample Sizes
0%
25%
50%
75%
100%
Proportion of Sample
Group
a
b
c
d
Response rates − Arm A = 20%, Arm B = 25%, Arm C = 26%, Arm D = 30%

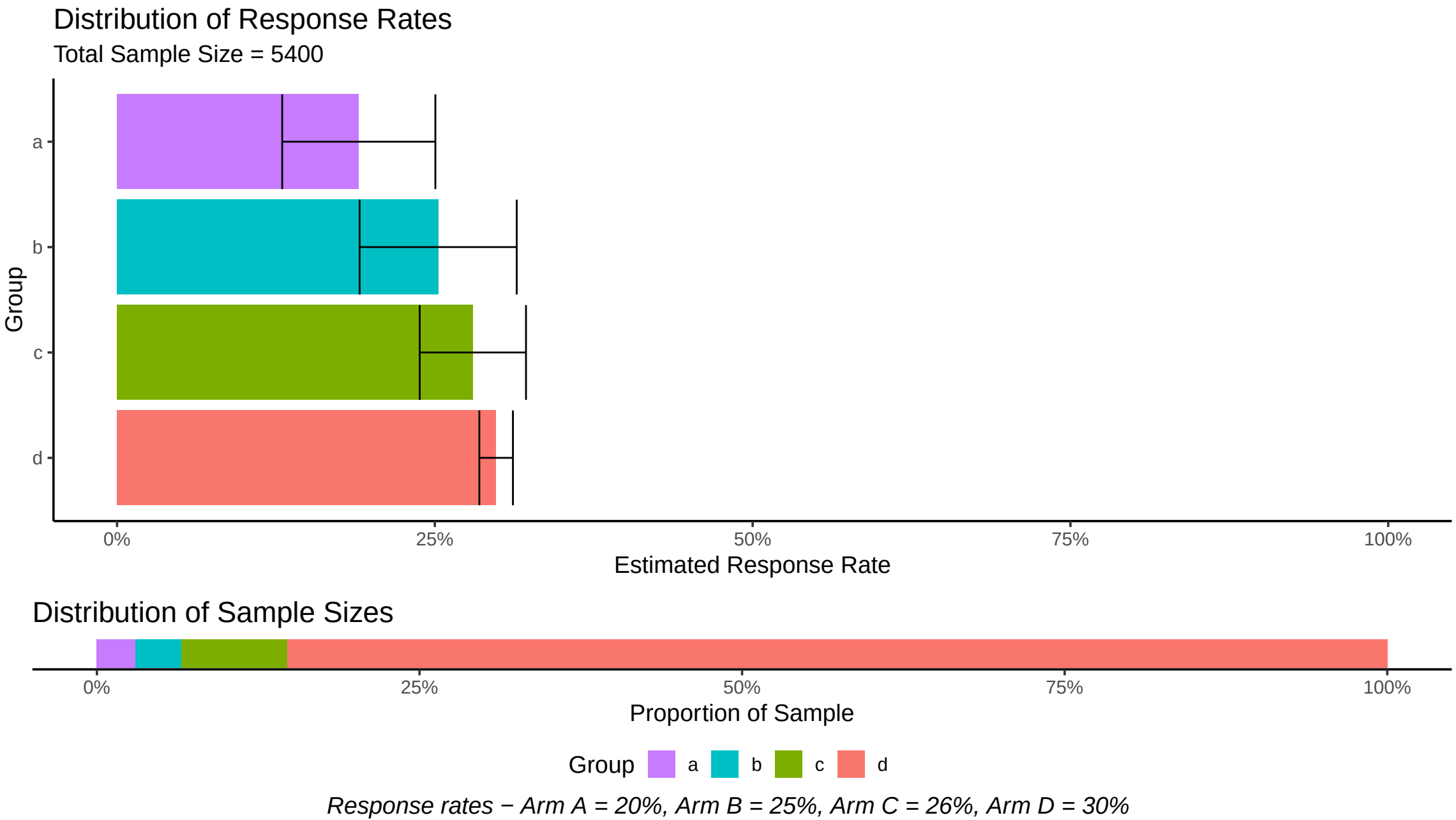

Epsilon Greedy: Sample Sizes and Respose Estimates
Distribution of Response Rates
Total Sample Size = 5000
Group
a
b
c
d
0%
25%
50%
75%
100%
Estimated Response Rate
Distribution of Sample Sizes
0%
25%
50%
75%
100%
Proportion of Sample
Group
a
b
c
d
Response rates − Arm A = 20%, Arm B = 25%, Arm C = 26%, Arm D = 30%

Epsilon Greedy: Sample Sizes and Respose Estimates

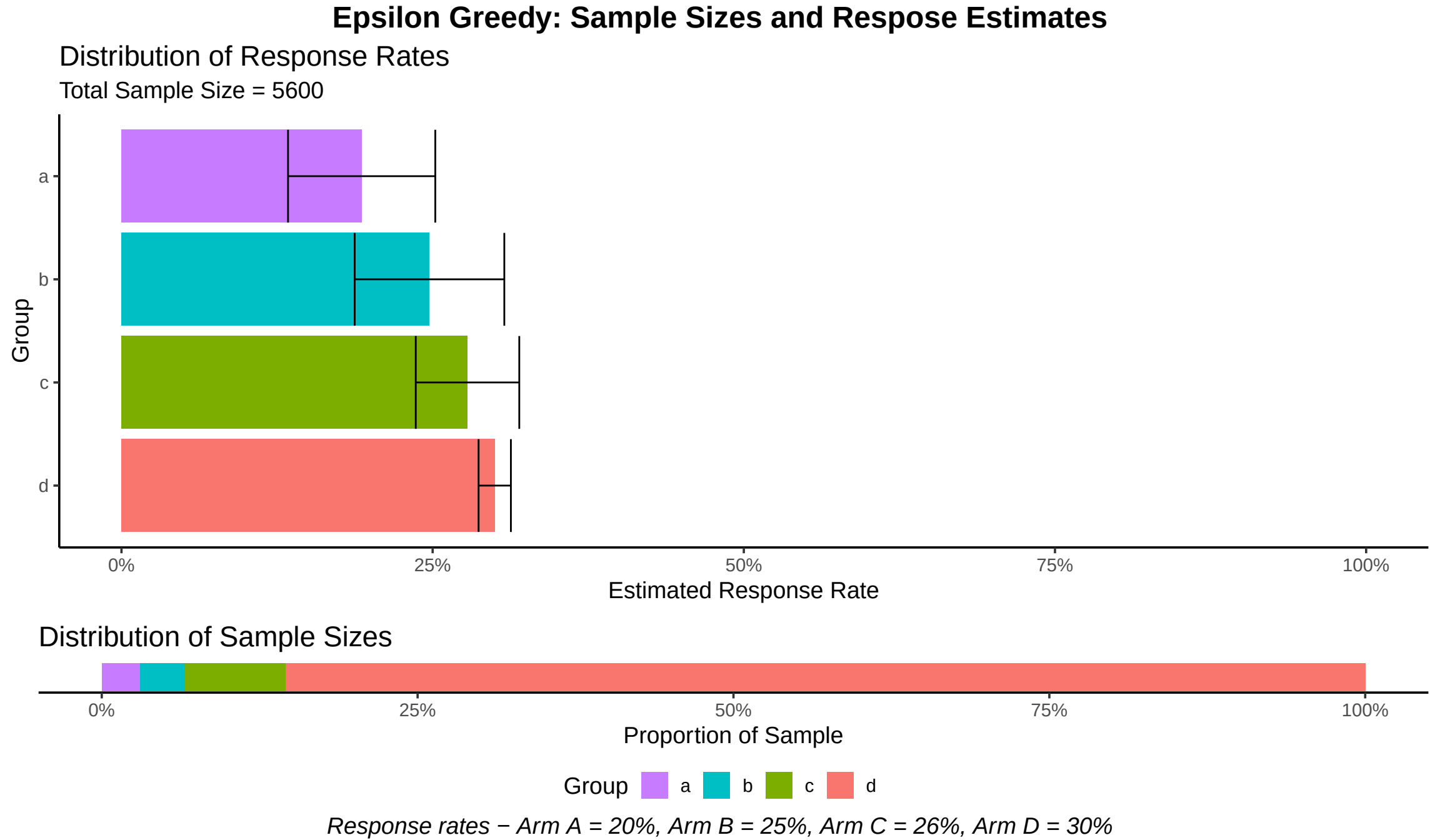


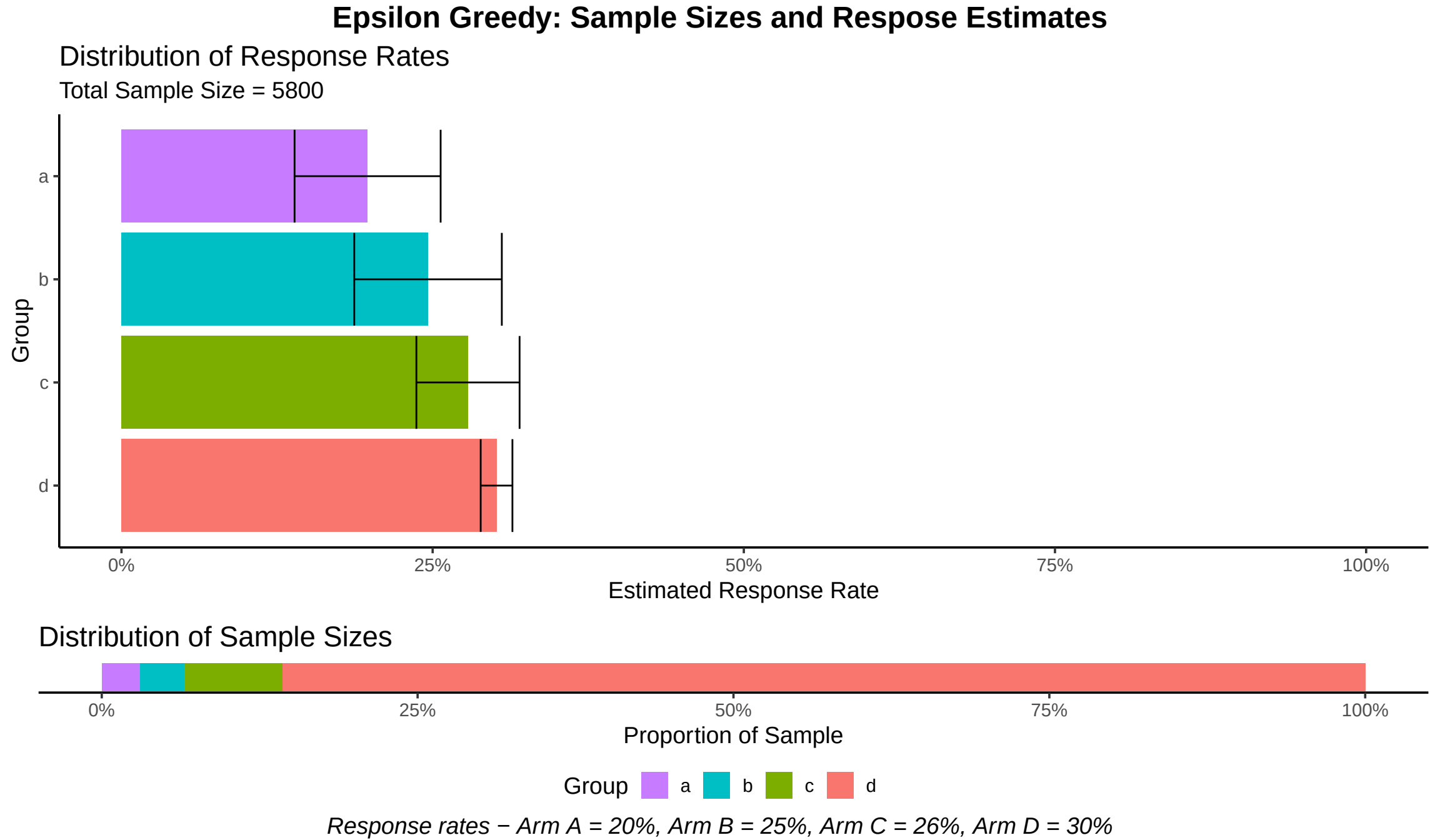
Response rates − Arm A = 20%, Arm B = 25%, Arm C = 26%, Arm D = 30%

Epsilon Greedy: Sample Sizes and Respose Estimates

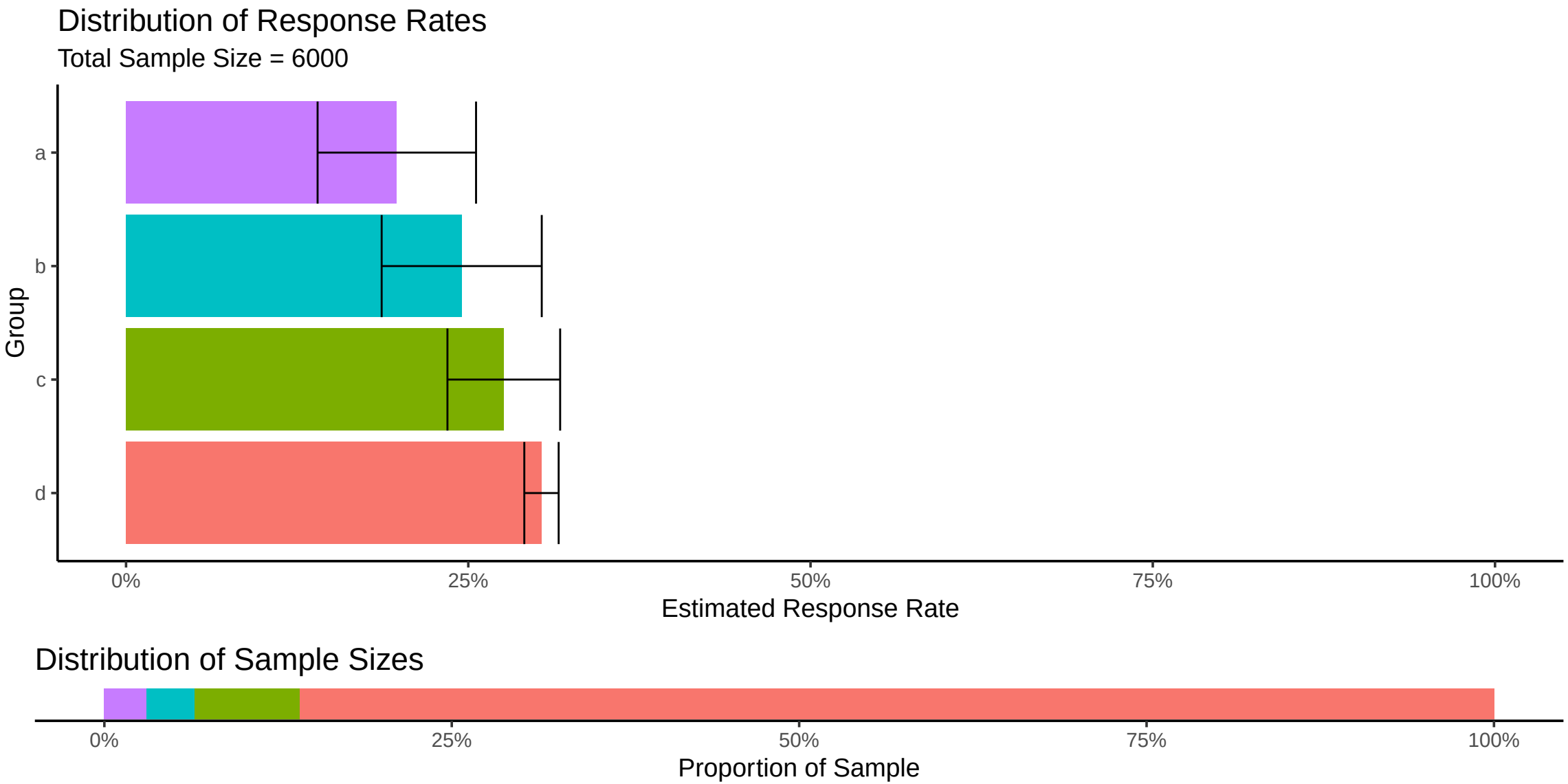


Response rates − Arm A = 20%, Arm B = 25%, Arm C = 26%, Arm D = 30%


Epsilon Greedy: Sample Sizes and Respose Estimates
Distribution of Response Rates
Total Sample Size = 5600
Group
a
b
c
d
0%
25%
50%
75%
100%
Estimated Response Rate
Distribution of Sample Sizes
0%
25%
50%
75%
100%
Proportion of Sample
Group
a
b
c
d
Response rates − Arm A = 20%, Arm B = 25%, Arm C = 26%, Arm D = 30%

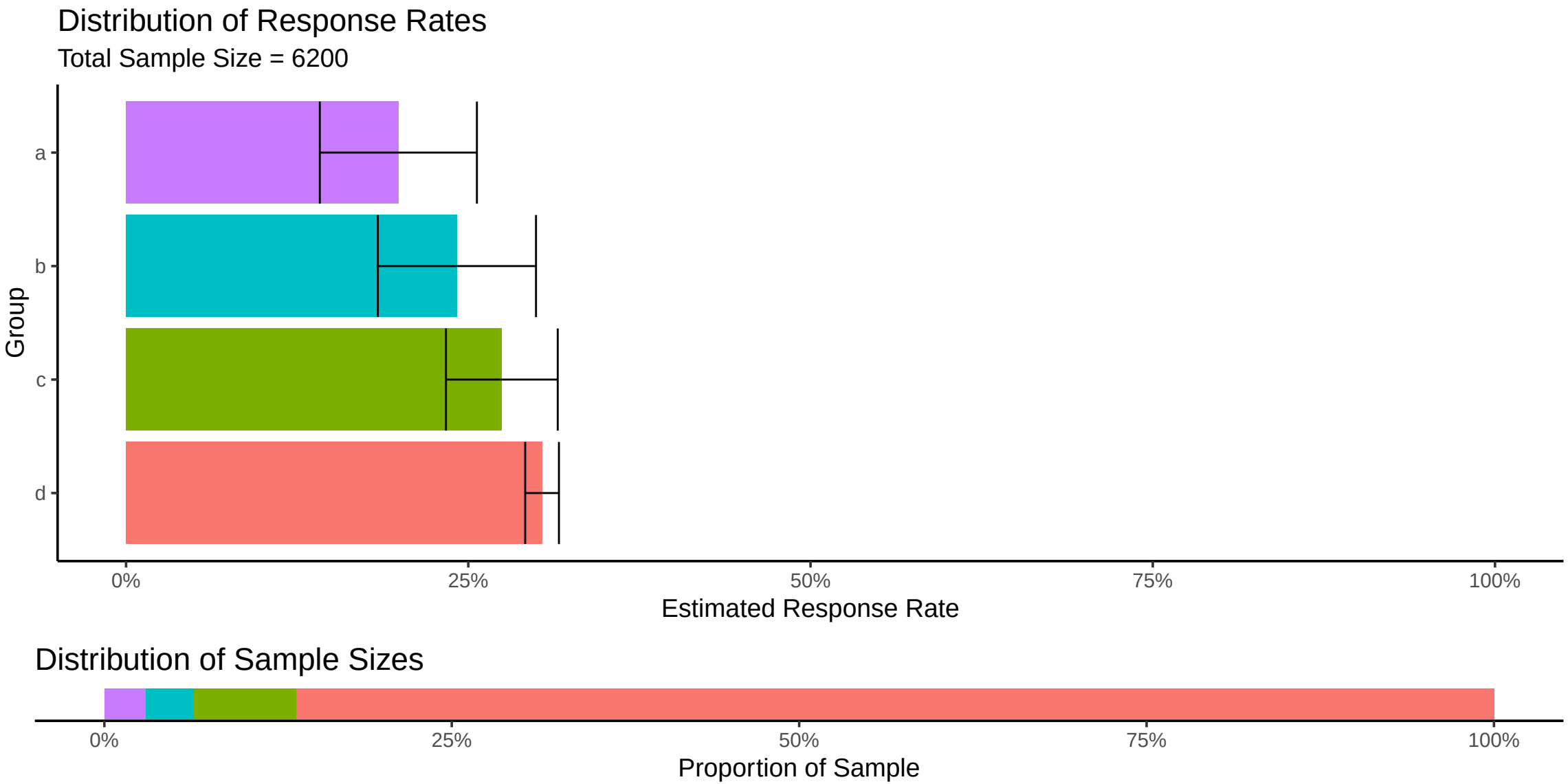

Epsilon Greedy: Sample Sizes and Respose Estimates
Distribution of Response Rates
Total Sample Size = 5800
Group
a
b
c
d
0%
25%
50%
75%
100%
Estimated Response Rate
Distribution of Sample Sizes
0%
25%
50%
75%
100%
Proportion of Sample
Group
a
b
c
d
Response rates − Arm A = 20%, Arm B = 25%, Arm C = 26%, Arm D = 30%

Epsilon Greedy: Sample Sizes and Respose Estimates

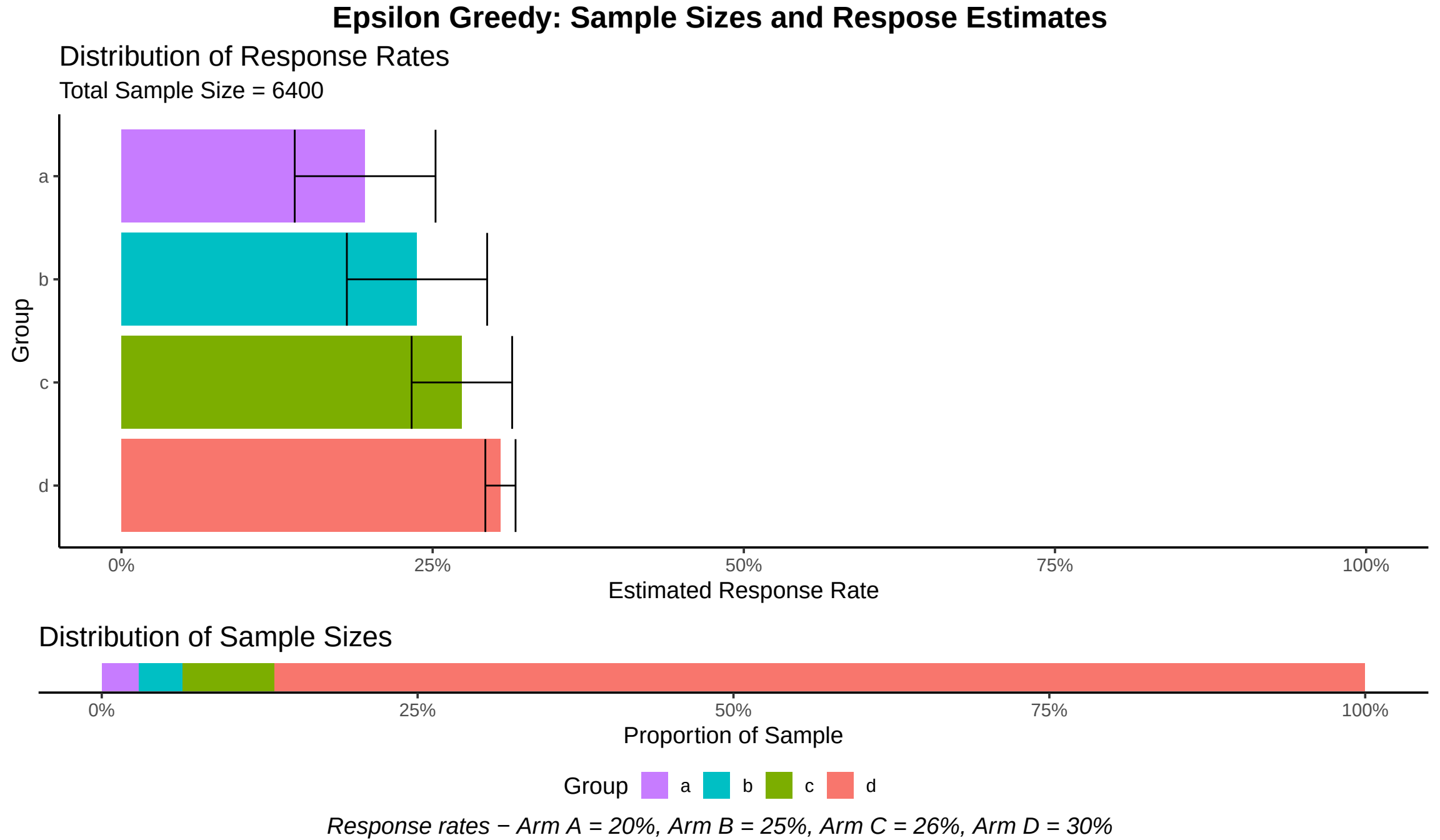


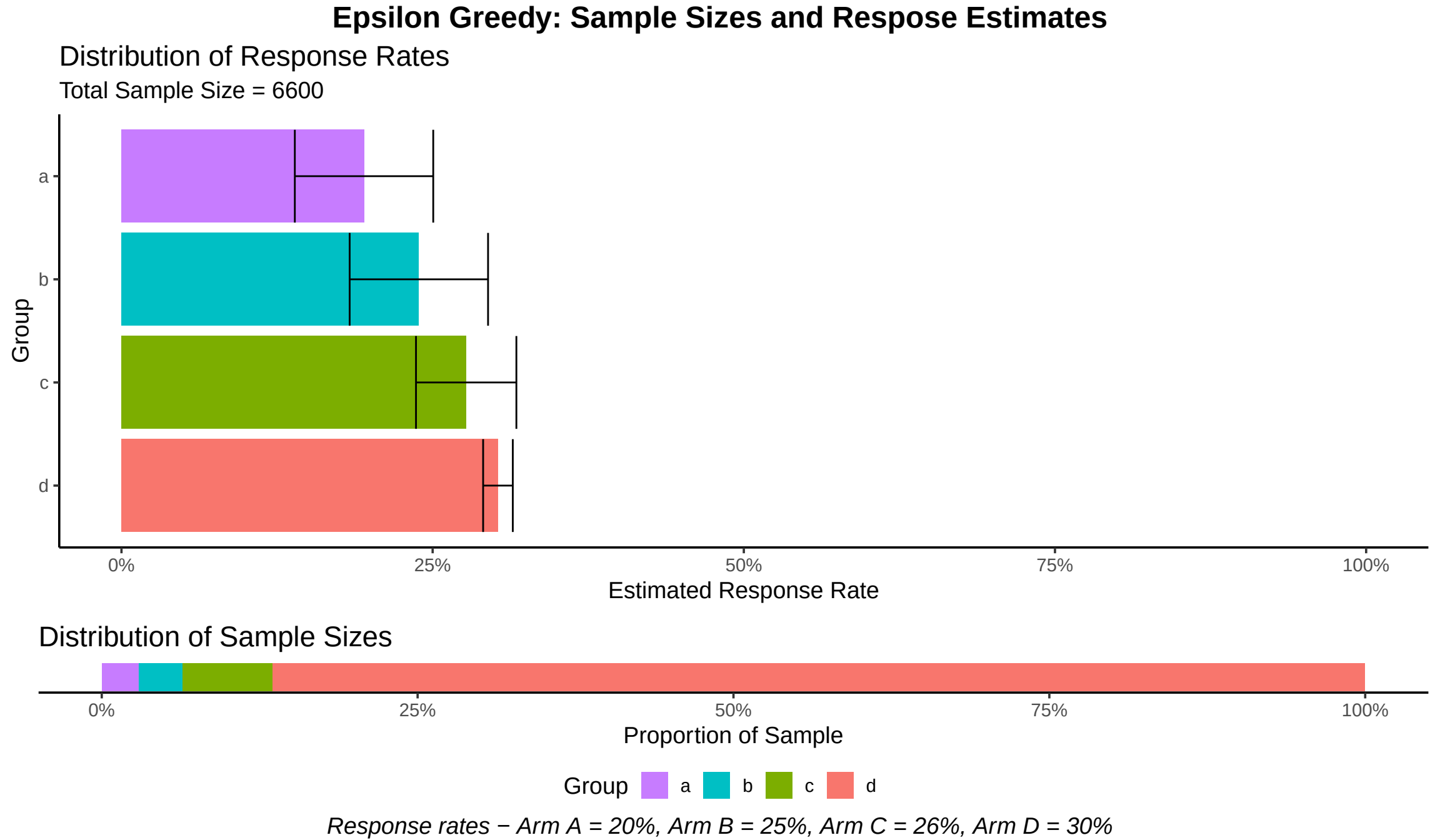
Response rates − Arm A = 20%, Arm B = 25%, Arm C = 26%, Arm D = 30%

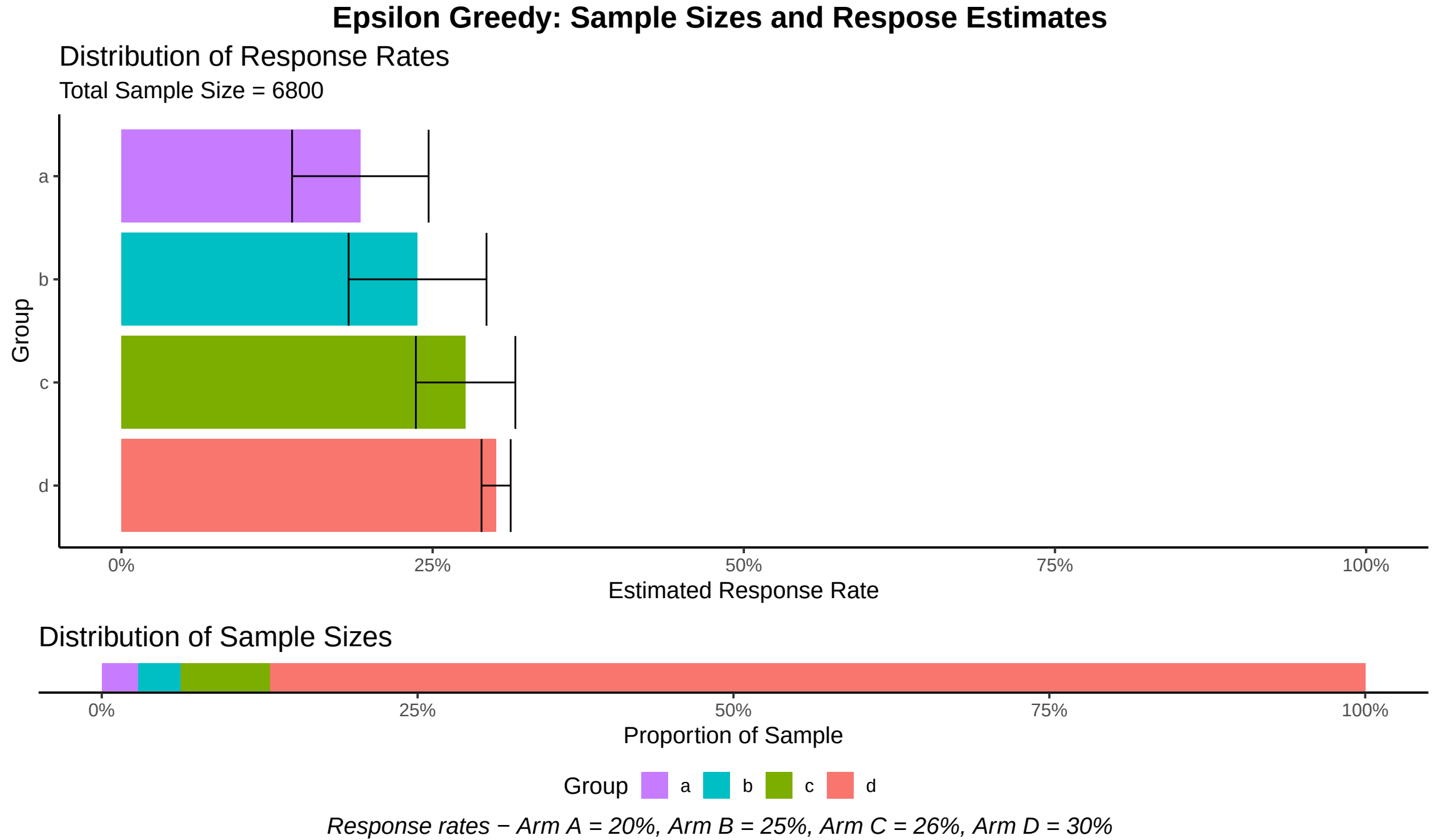
Epsilon Greedy: Sample Sizes and Respose Estimates



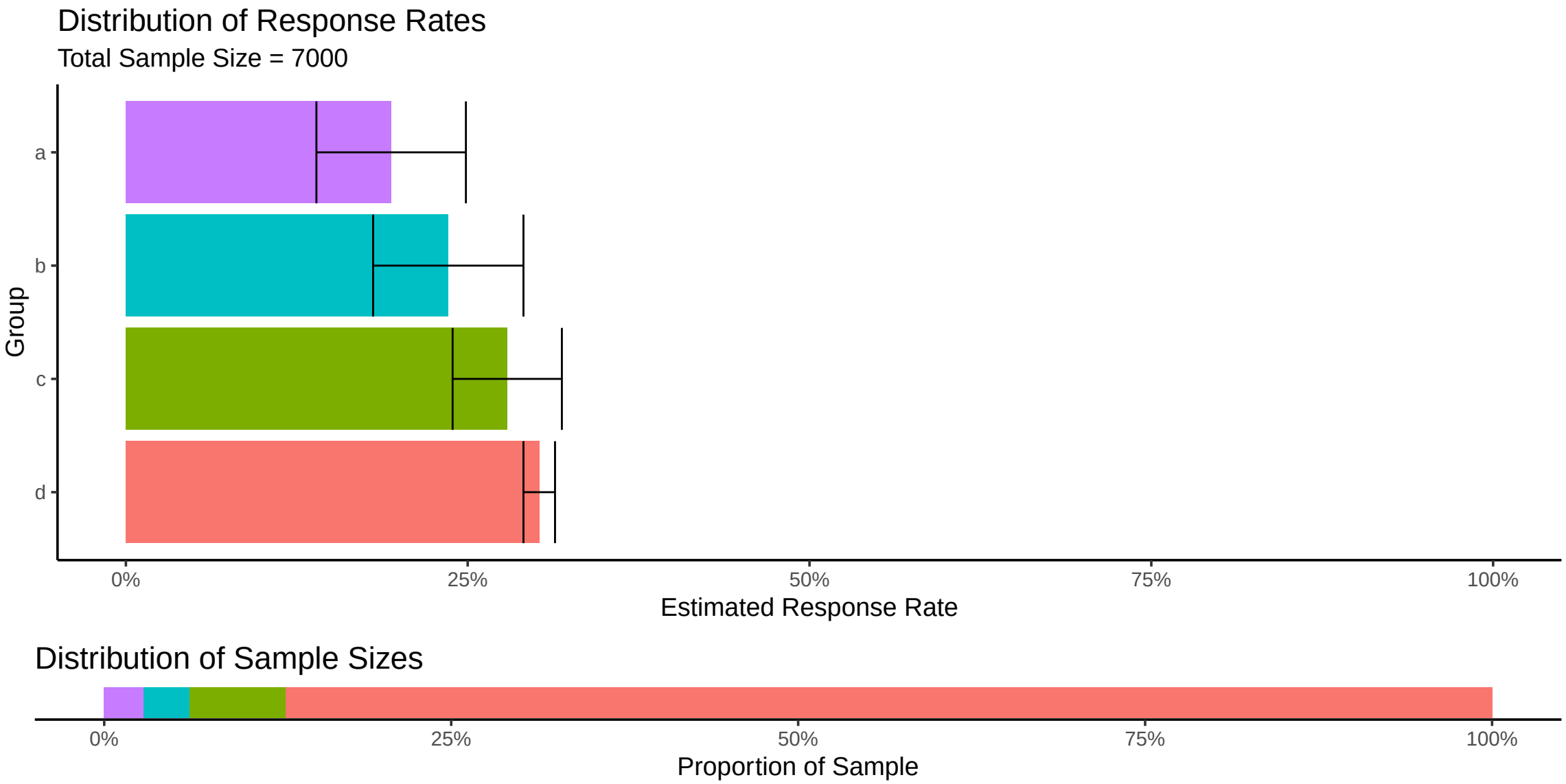
Response rates − Arm A = 20%, Arm B = 25%, Arm C = 26%, Arm D = 30%


Epsilon Greedy: Sample Sizes and Respose Estimates
Distribution of Response Rates
Total Sample Size = 6400
Group
a
b
c
d
0%
25%
50%
75%
100%
Estimated Response Rate
Distribution of Sample Sizes
0%
25%
50%
75%
100%
Proportion of Sample
Group
a
b
c
d
Response rates − Arm A = 20%, Arm B = 25%, Arm C = 26%, Arm D = 30%


Epsilon Greedy: Sample Sizes and Respose Estimates
Distribution of Response Rates
Total Sample Size = 6600
Group
a
b
c
d
0%
25%
50%
75%
100%
Estimated Response Rate
Distribution of Sample Sizes
0%
25%
50%
75%
100%
Proportion of Sample
Group
a
b
c
d
Response rates − Arm A = 20%, Arm B = 25%, Arm C = 26%, Arm D = 30%

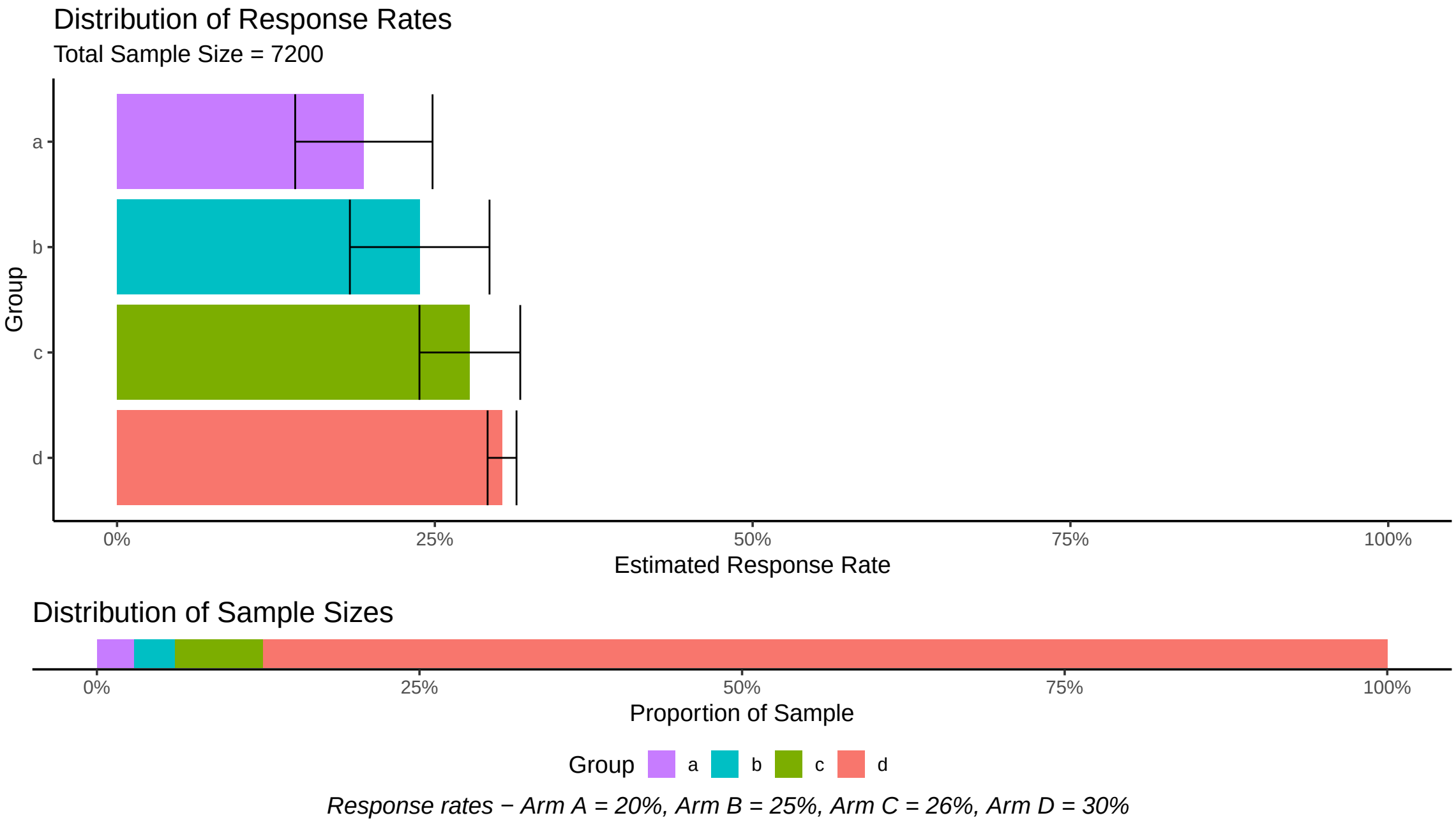

Epsilon Greedy: Sample Sizes and Respose Estimates
Distribution of Response Rates
Total Sample Size = 6800
Group
a
b
c
d
0%
25%
50%
75%
100%
Estimated Response Rate
Distribution of Sample Sizes
0%
25%
50%
75%
100%
Proportion of Sample
Group
a
b
c
d
Response rates − Arm A = 20%, Arm B = 25%, Arm C = 26%, Arm D = 30%

Epsilon Greedy: Sample Sizes and Respose Estimates

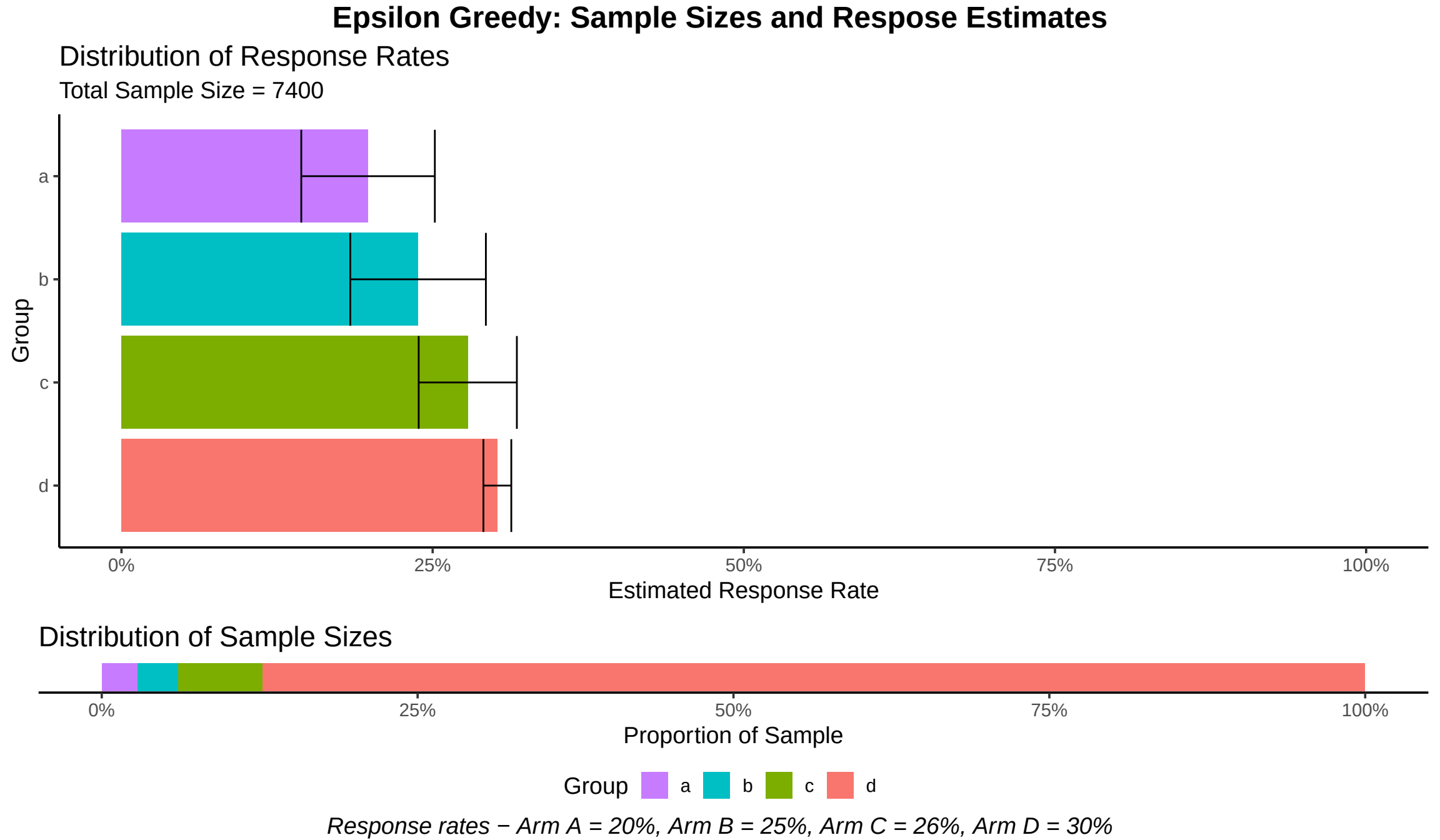


Response rates − Arm A = 20%, Arm B = 25%, Arm C = 26%, Arm D = 30%

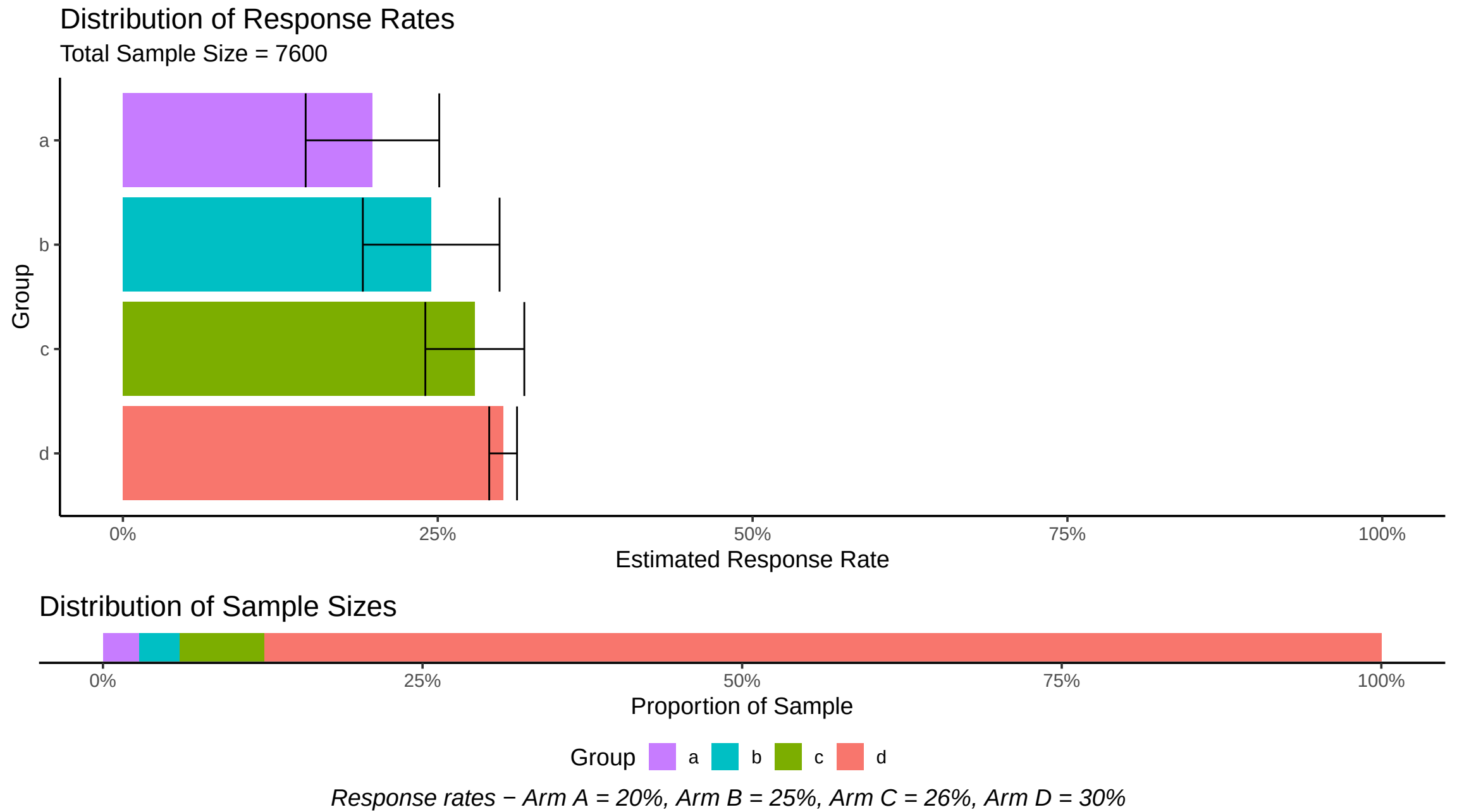
Epsilon Greedy: Sample Sizes and Respose Estimates



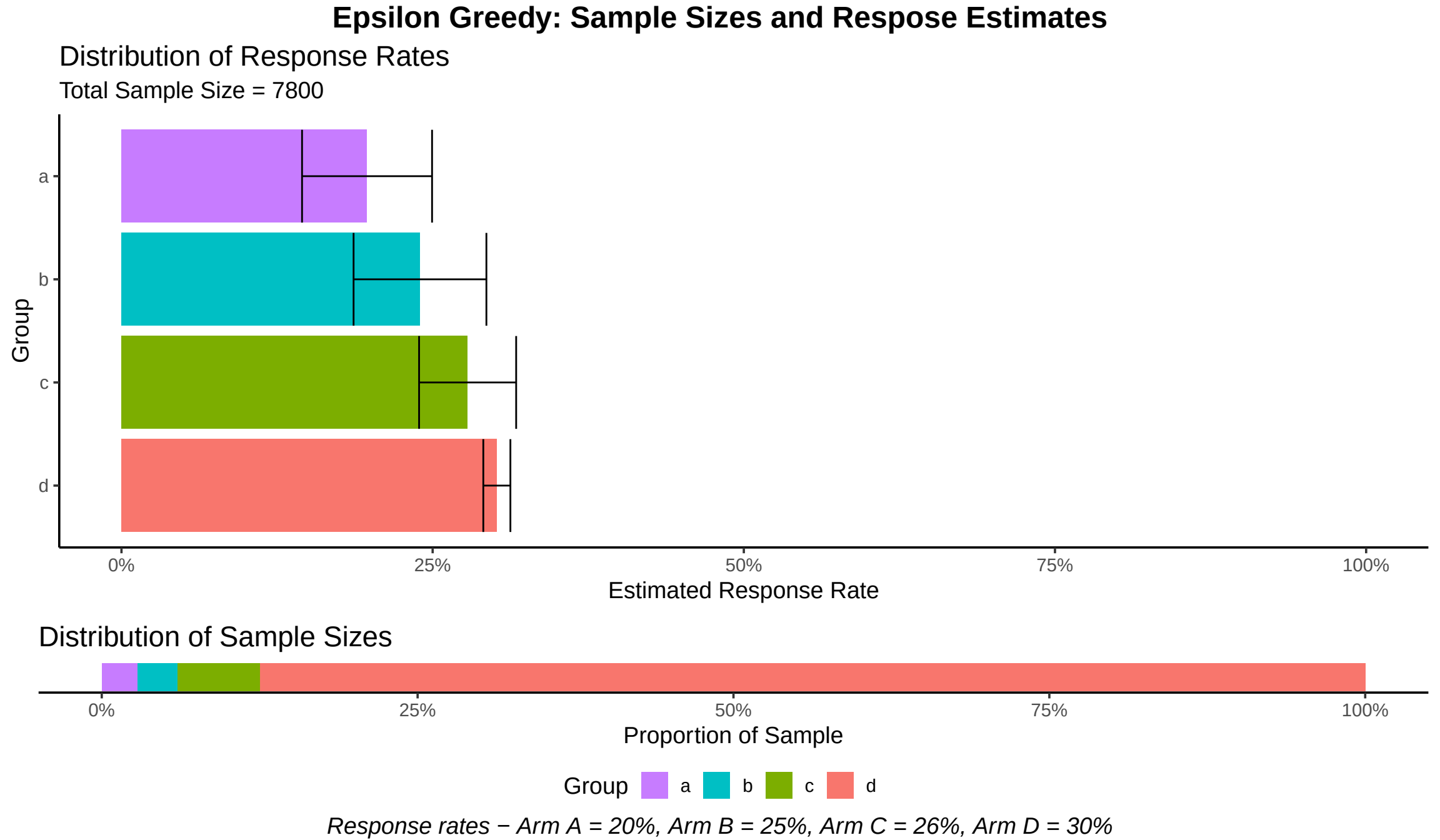
Response rates − Arm A = 20%, Arm B = 25%, Arm C = 26%, Arm D = 30%

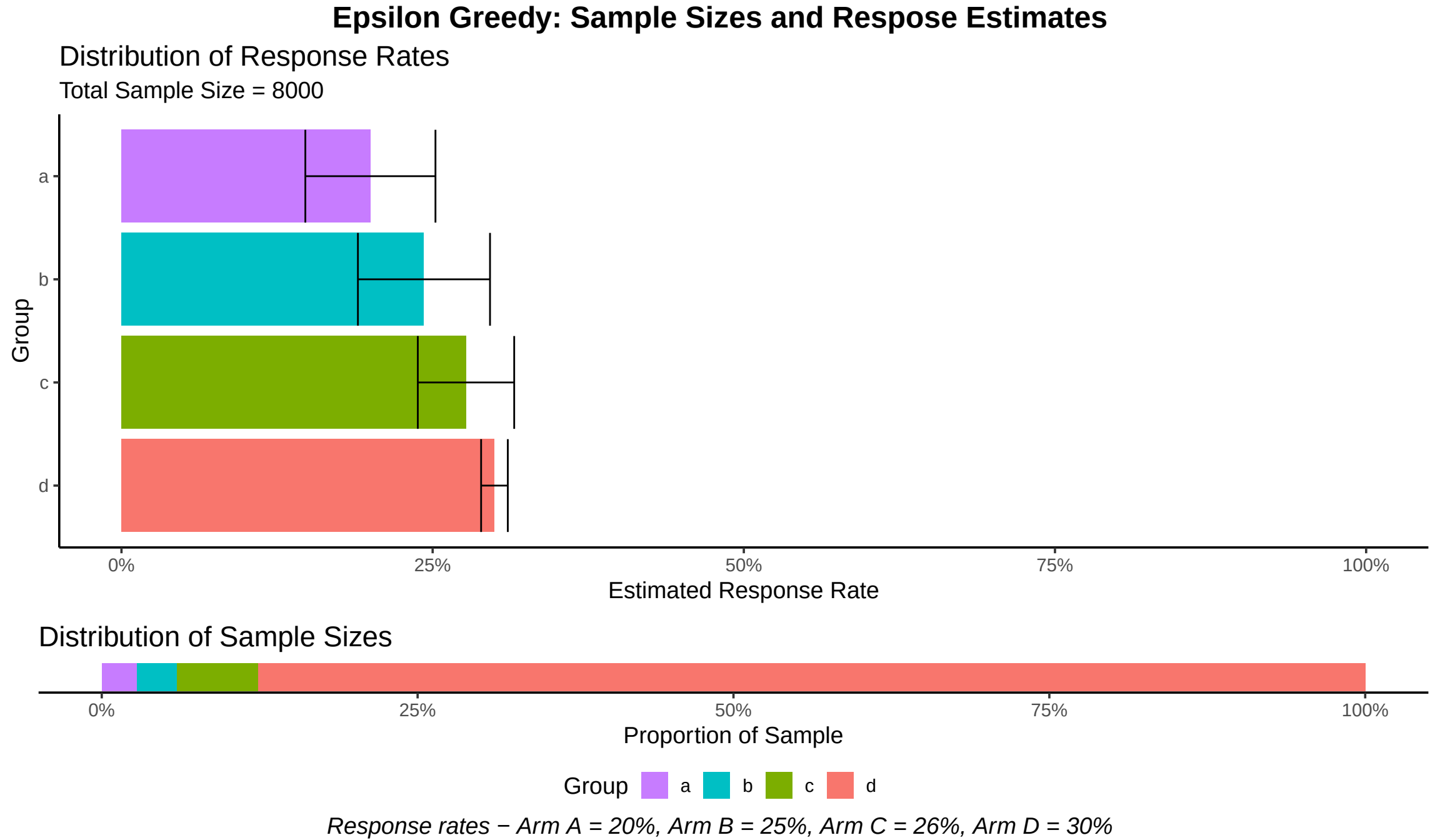

Epsilon Greedy: Sample Sizes and Respose Estimates
Distribution of Response Rates
Total Sample Size = 7400
Group
a
b
c
d
0%
25%
50%
75%
100%
Estimated Response Rate
Distribution of Sample Sizes
0%
25%
50%
75%
100%
Proportion of Sample
Group
a
b
c
d
Response rates − Arm A = 20%, Arm B = 25%, Arm C = 26%, Arm D = 30%

Epsilon Greedy: Sample Sizes and Respose Estimates

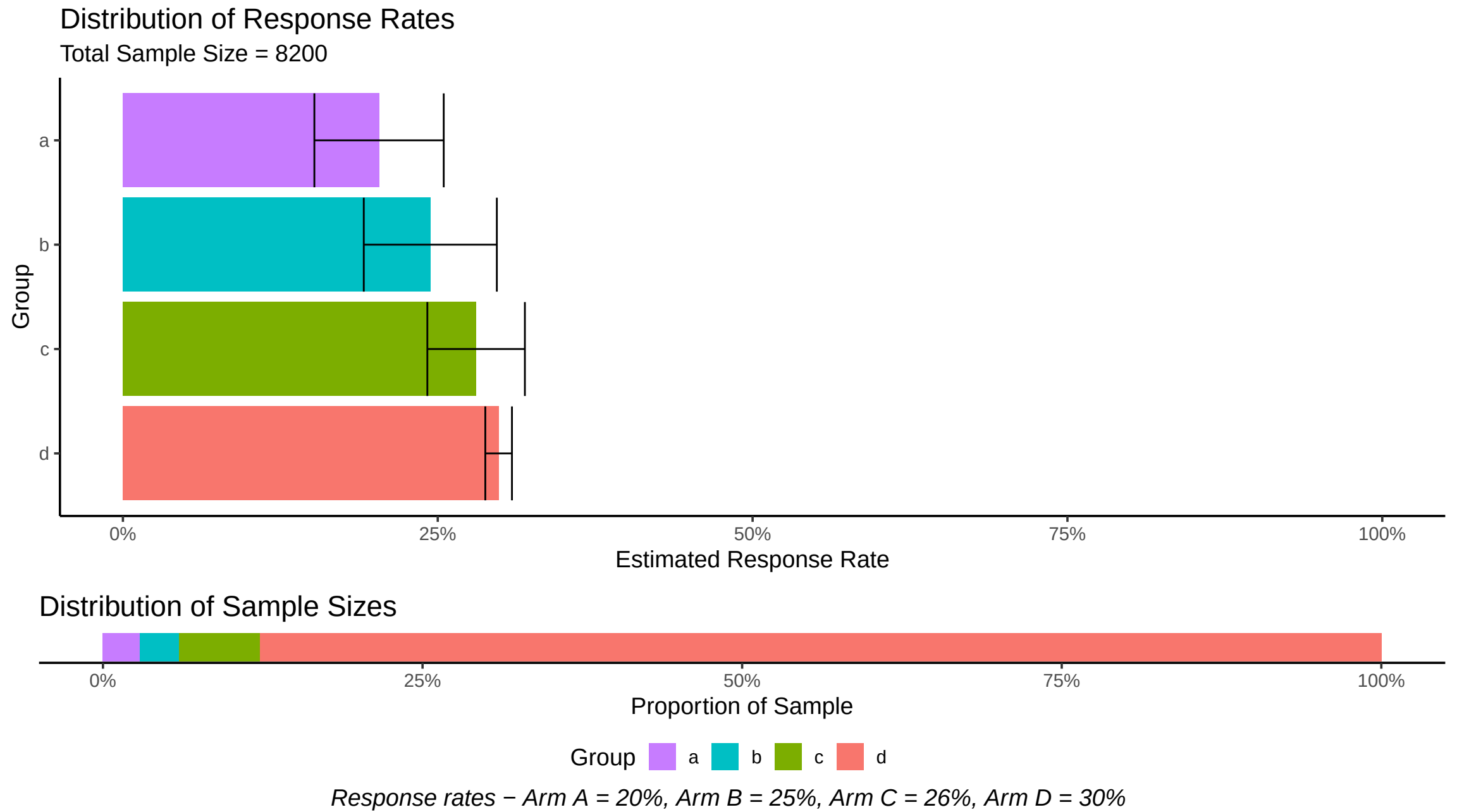


Response rates − Arm A = 20%, Arm B = 25%, Arm C = 26%, Arm D = 30%


Epsilon Greedy: Sample Sizes and Respose Estimates
Distribution of Response Rates
Total Sample Size = 7800
Group
a
b
c
d
0%
25%
50%
75%
100%
Estimated Response Rate
Distribution of Sample Sizes
0%
25%
50%
75%
100%
Proportion of Sample
Group
a
b
c
d
Response rates − Arm A = 20%, Arm B = 25%, Arm C = 26%, Arm D = 30%

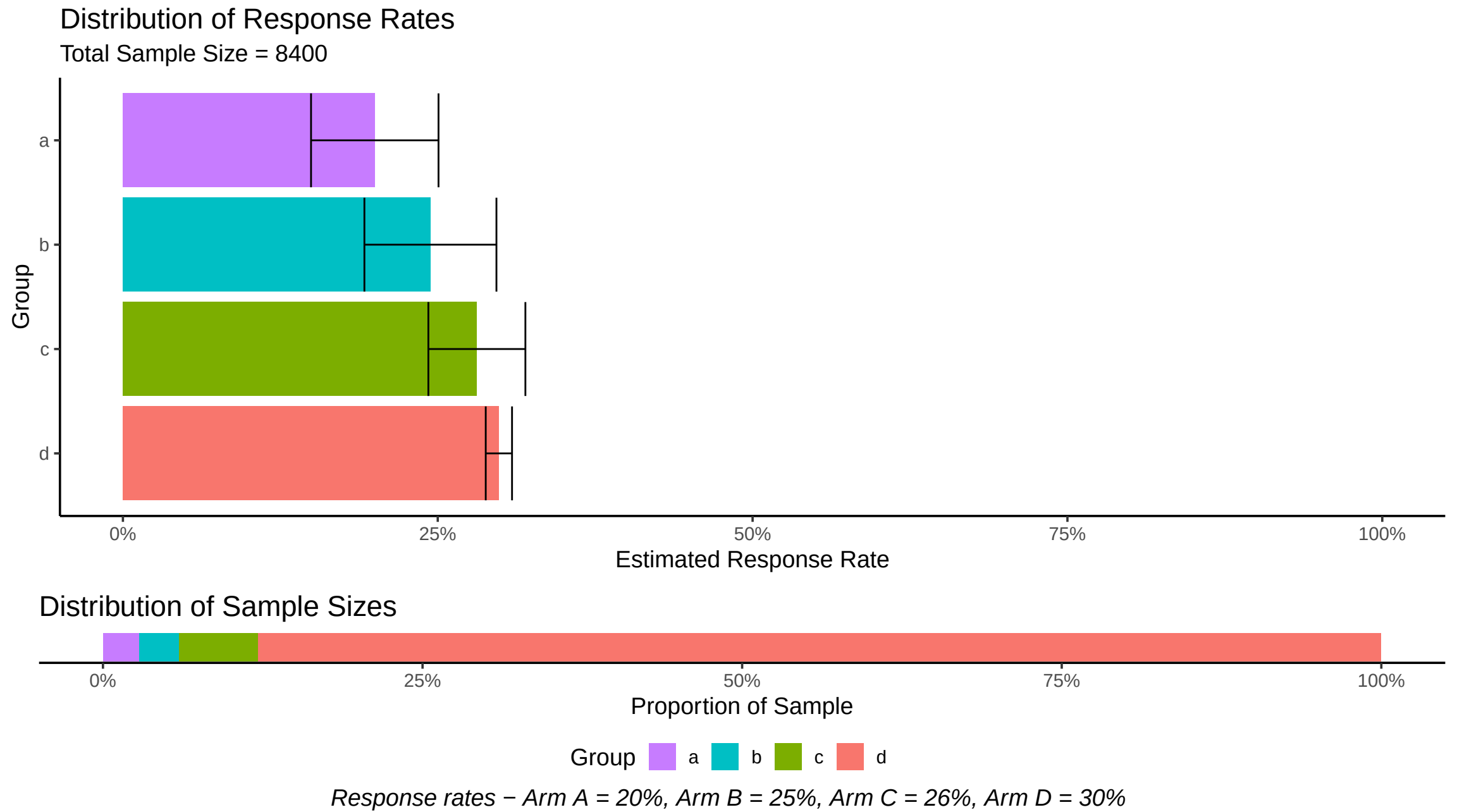

Epsilon Greedy: Sample Sizes and Respose Estimates
Distribution of Response Rates
Total Sample Size = 8000
Group
a
b
c
d
0%
25%
50%
75%
100%
Estimated Response Rate
Distribution of Sample Sizes
0%
25%
50%
75%
100%
Proportion of Sample
Group
a
b
c
d
Response rates − Arm A = 20%, Arm B = 25%, Arm C = 26%, Arm D = 30%

Epsilon Greedy: Sample Sizes and Respose Estimates



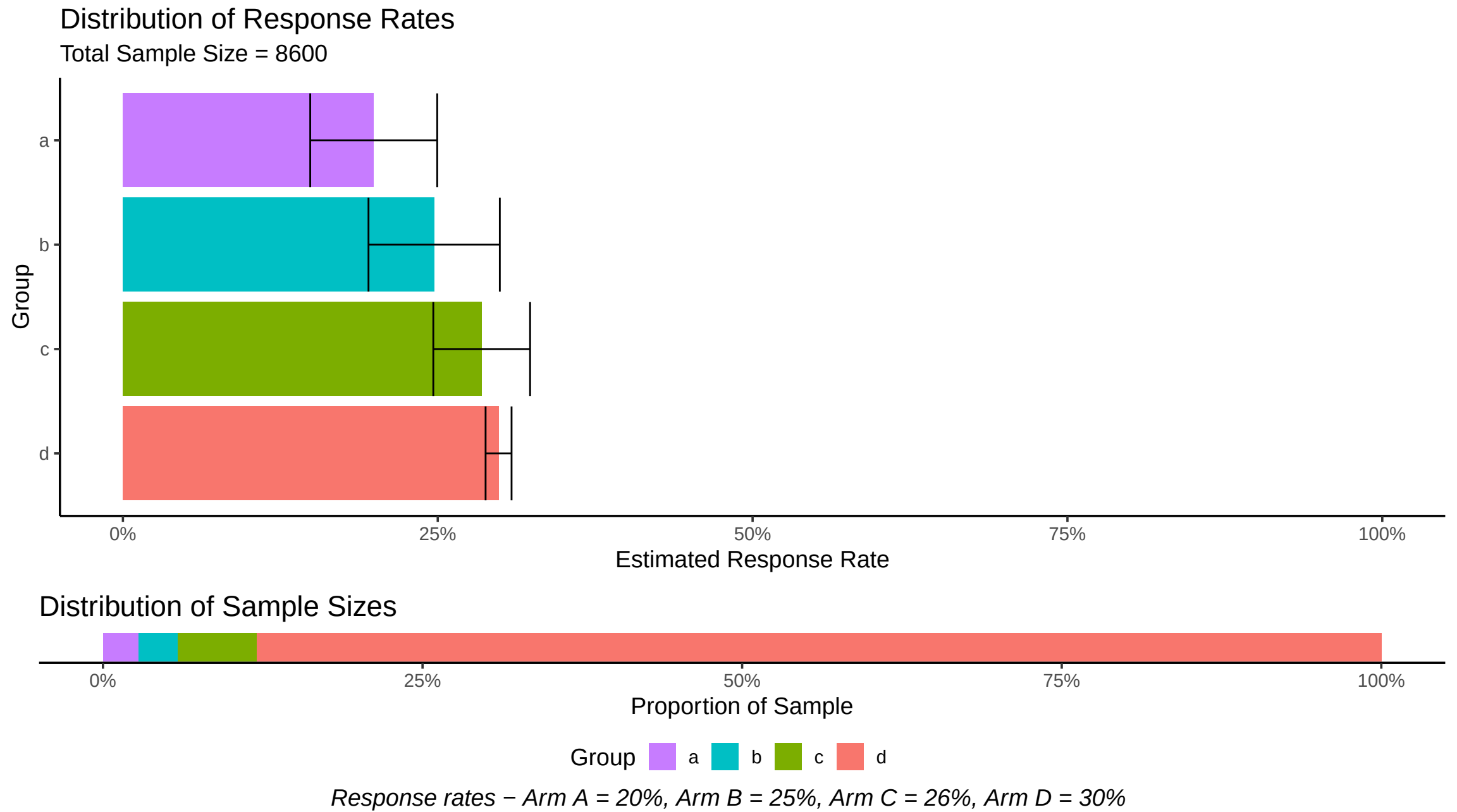
Response rates − Arm A = 20%, Arm B = 25%, Arm C = 26%, Arm D = 30%

Epsilon Greedy: Sample Sizes and Respose Estimates



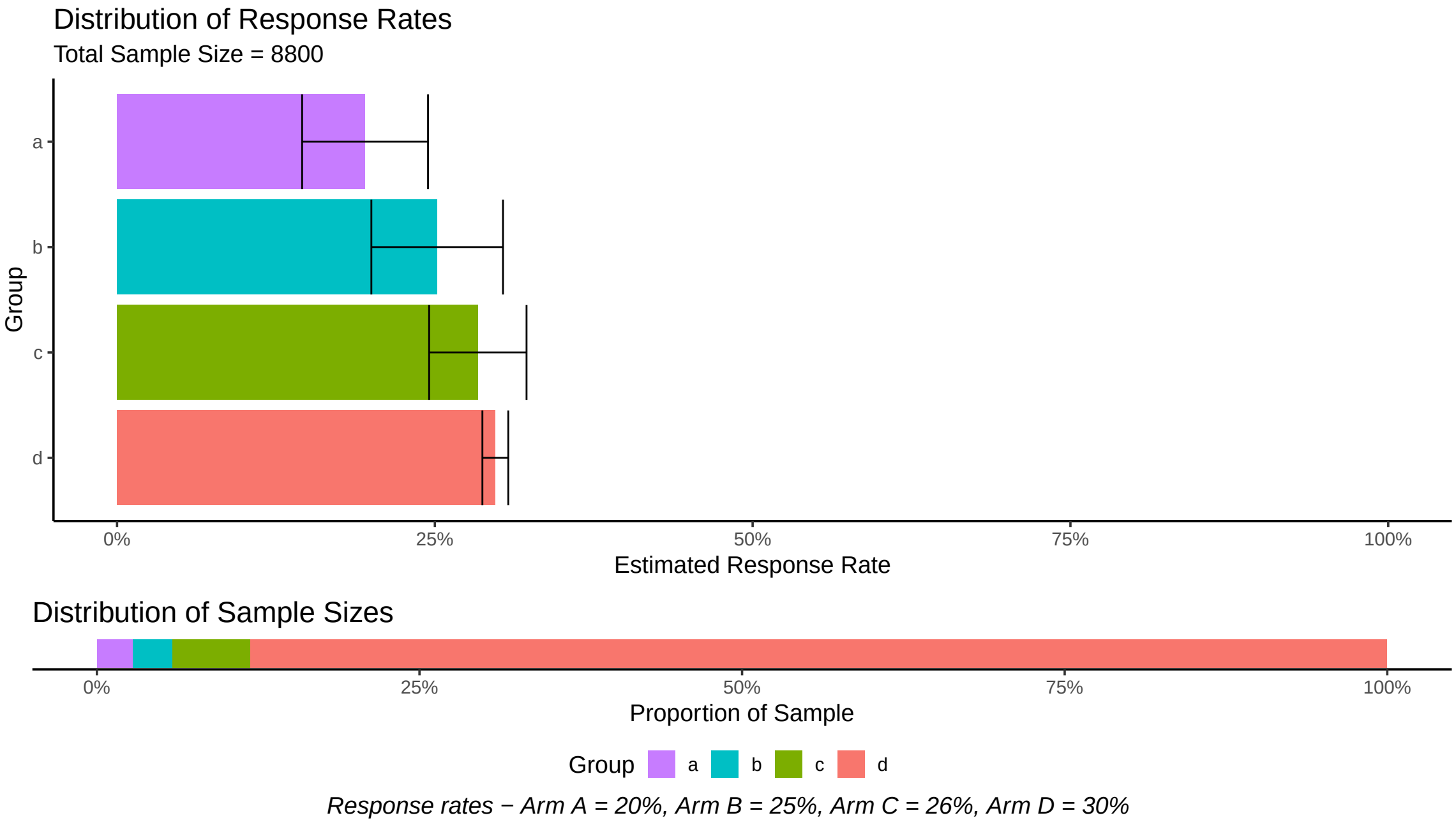
Response rates − Arm A = 20%, Arm B = 25%, Arm C = 26%, Arm D = 30%

Epsilon Greedy: Sample Sizes and Respose Estimates



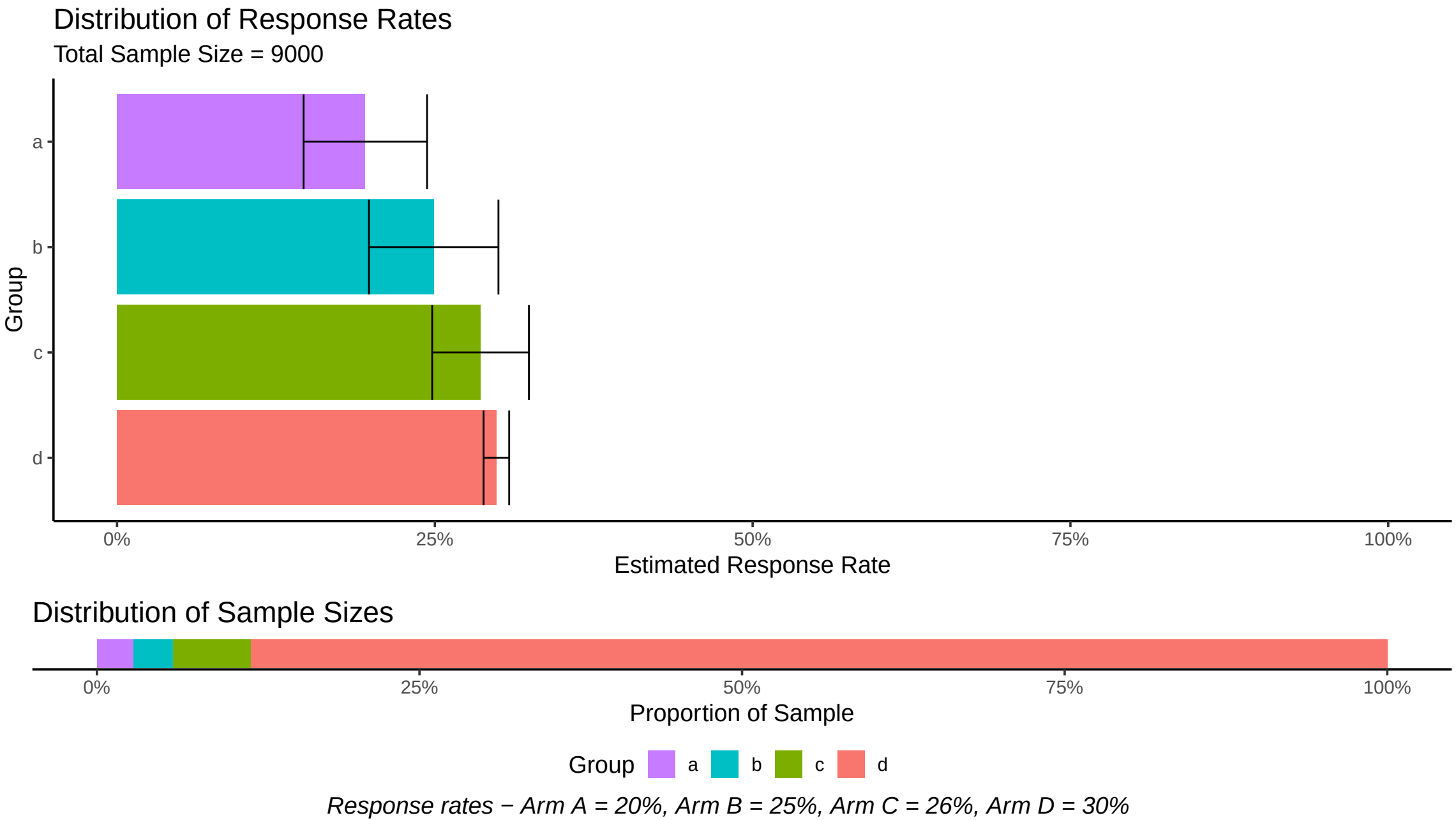
Response rates − Arm A = 20%, Arm B = 25%, Arm C = 26%, Arm D = 30%

Epsilon Greedy: Sample Sizes and Respose Estimates

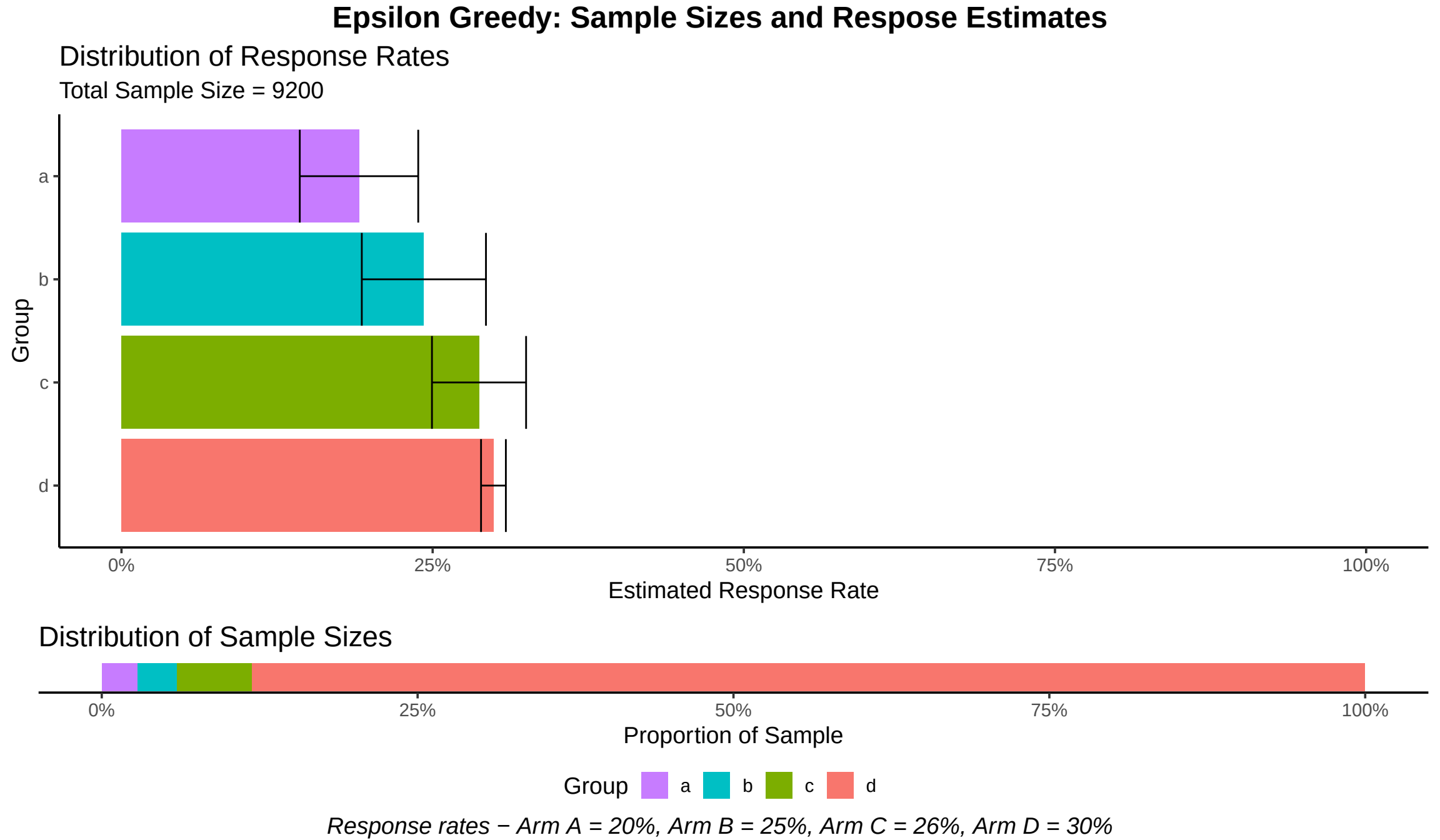


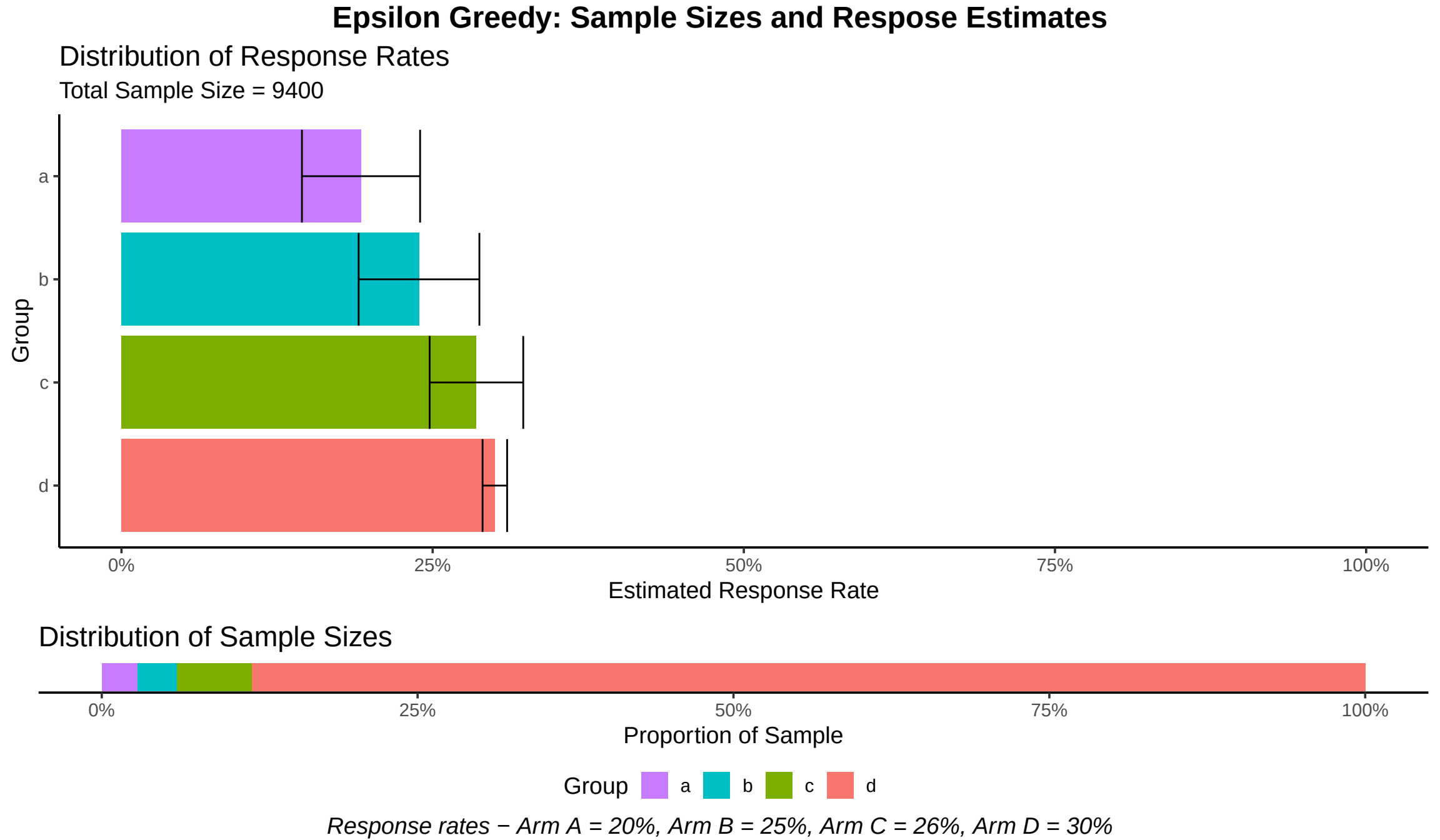
Response rates − Arm A = 20%, Arm B = 25%, Arm C = 26%, Arm D = 30%

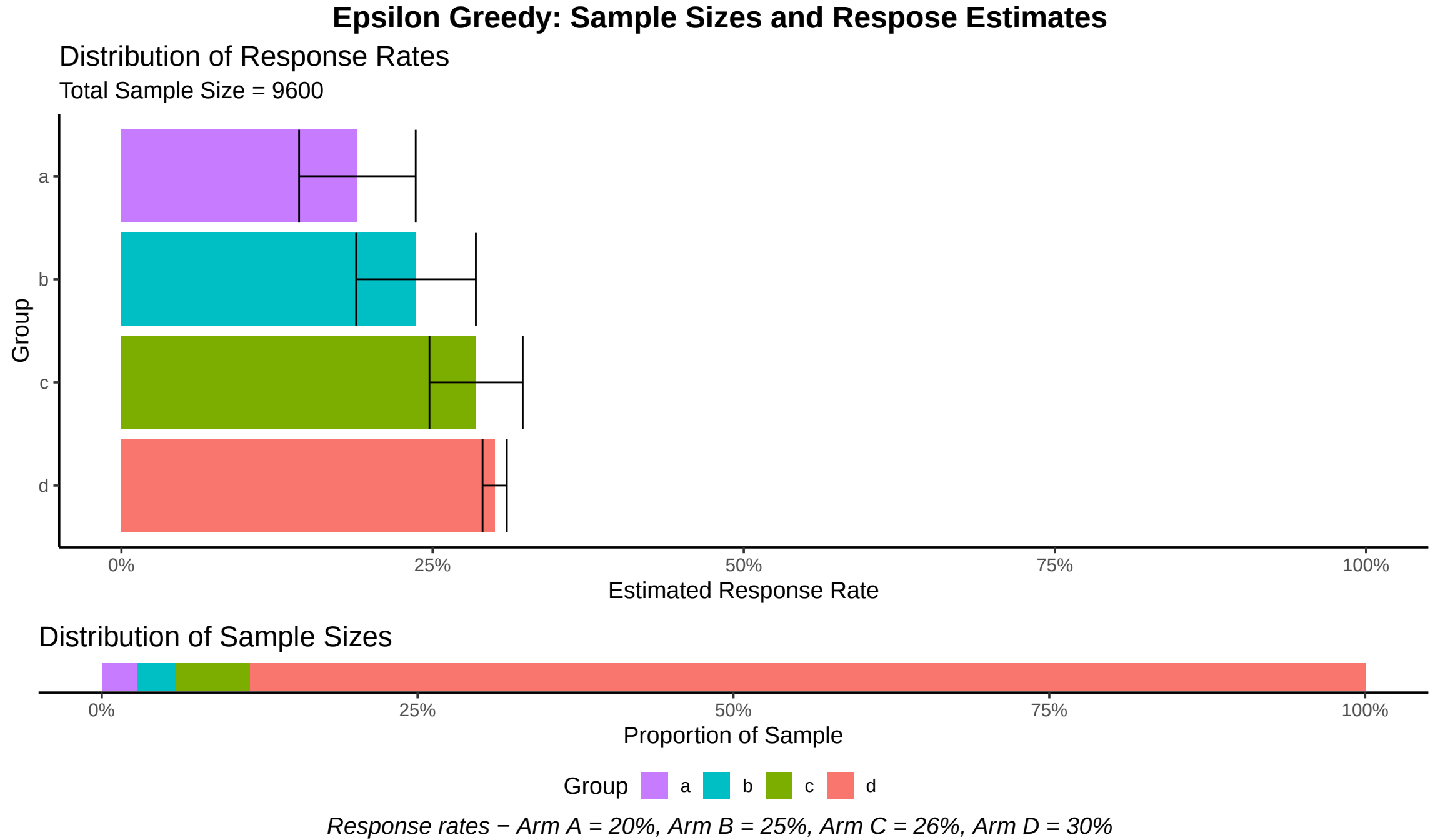
Epsilon Greedy: Sample Sizes and Respose Estimates



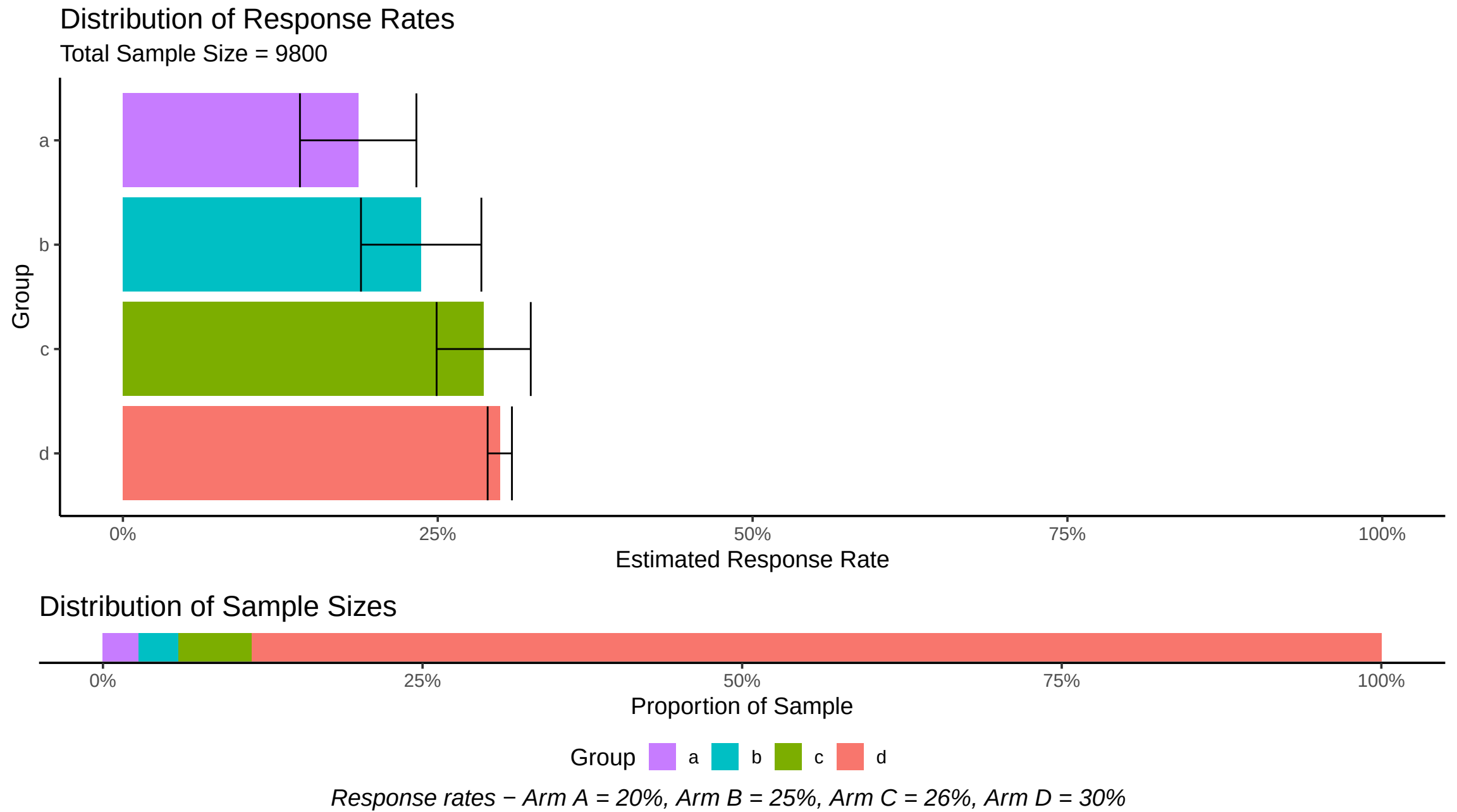
Response rates − Arm A = 20%, Arm B = 25%, Arm C = 26%, Arm D = 30%


Epsilon Greedy: Sample Sizes and Respose Estimates
Distribution of Response Rates
Total Sample Size = 9200
Group
a
b
c
d
0%
25%
50%
75%
100%
Estimated Response Rate
Distribution of Sample Sizes
0%
25%
50%
75%
100%
Proportion of Sample
Group
a
b
c
d
Response rates − Arm A = 20%, Arm B = 25%, Arm C = 26%, Arm D = 30%


Epsilon Greedy: Sample Sizes and Respose Estimates
Distribution of Response Rates
Total Sample Size = 9400
Group
a
b
c
d
0%
25%
50%
75%
100%
Estimated Response Rate
Distribution of Sample Sizes
0%
25%
50%
75%
100%
Proportion of Sample
Group
a
b
c
d
Response rates − Arm A = 20%, Arm B = 25%, Arm C = 26%, Arm D = 30%

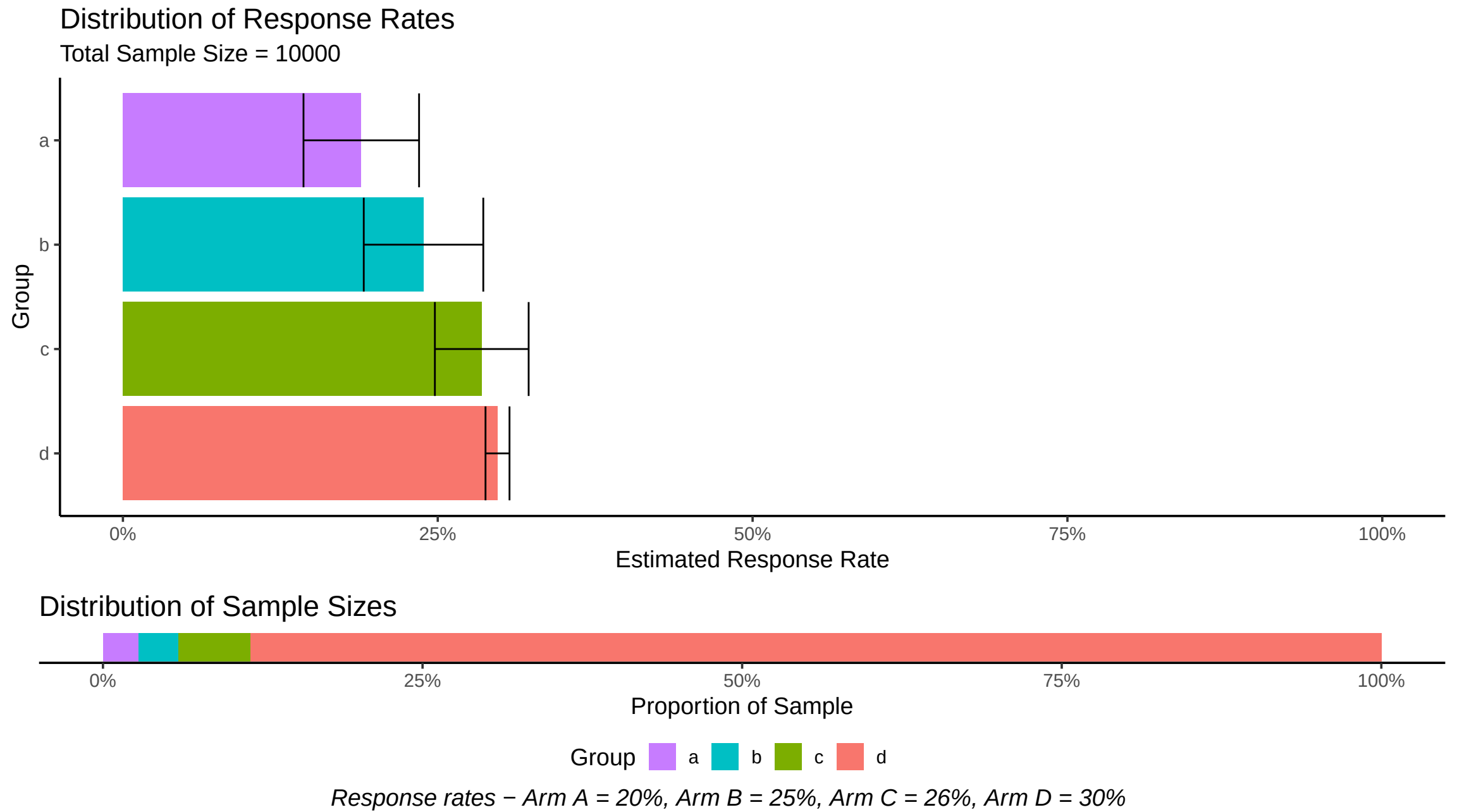

Epsilon Greedy: Sample Sizes and Respose Estimates
Distribution of Response Rates
Total Sample Size = 9600
Group
a
b
c
d
0%
25%
50%
75%
100%
Estimated Response Rate
Distribution of Sample Sizes
0%
25%
50%
75%
100%
Proportion of Sample
Group
a
b
c
d
Response rates − Arm A = 20%, Arm B = 25%, Arm C = 26%, Arm D = 30%

Epsilon Greedy: Sample Sizes and Respose Estimates

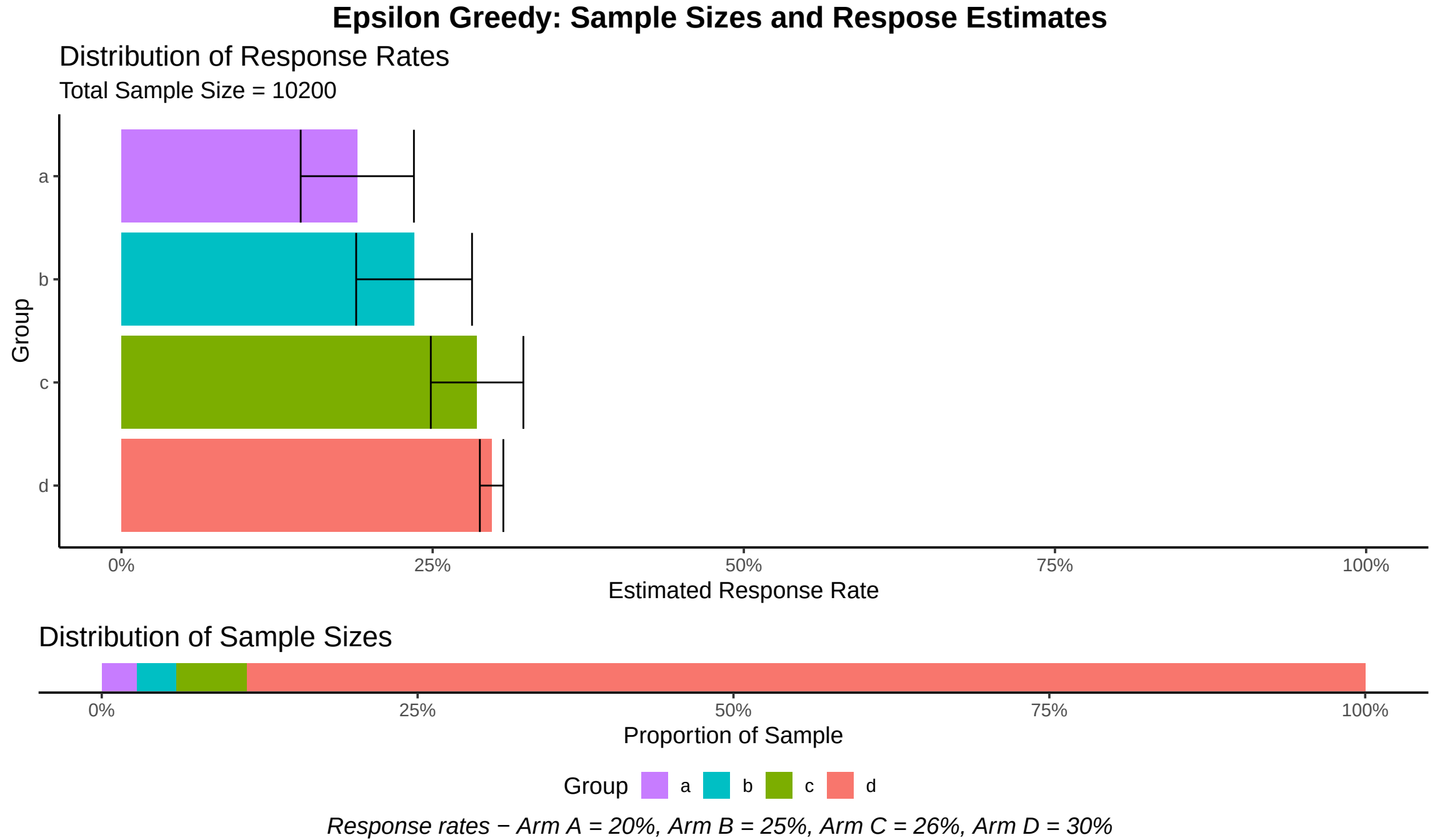


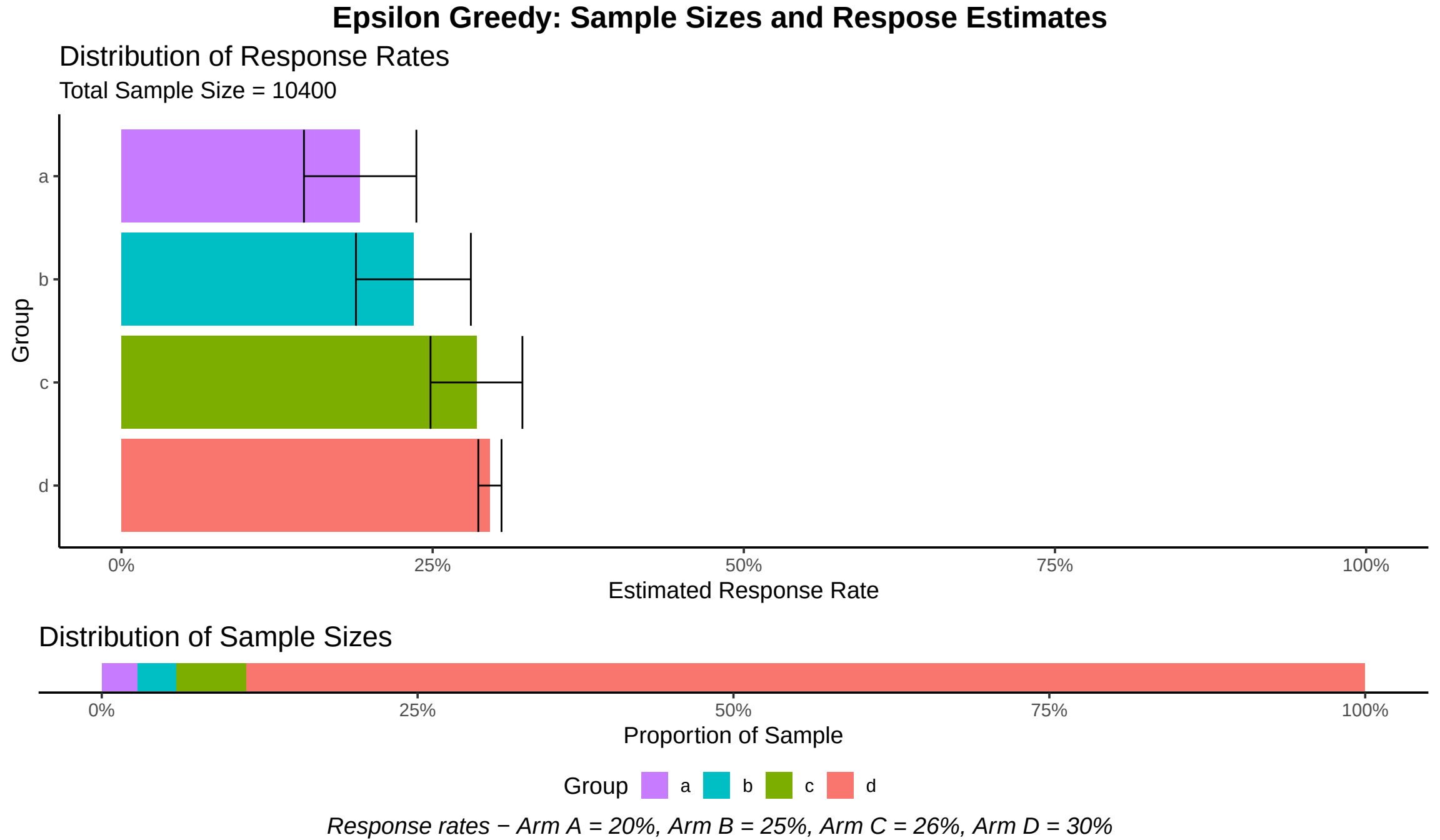
Response rates − Arm A = 20%, Arm B = 25%, Arm C = 26%, Arm D = 30%

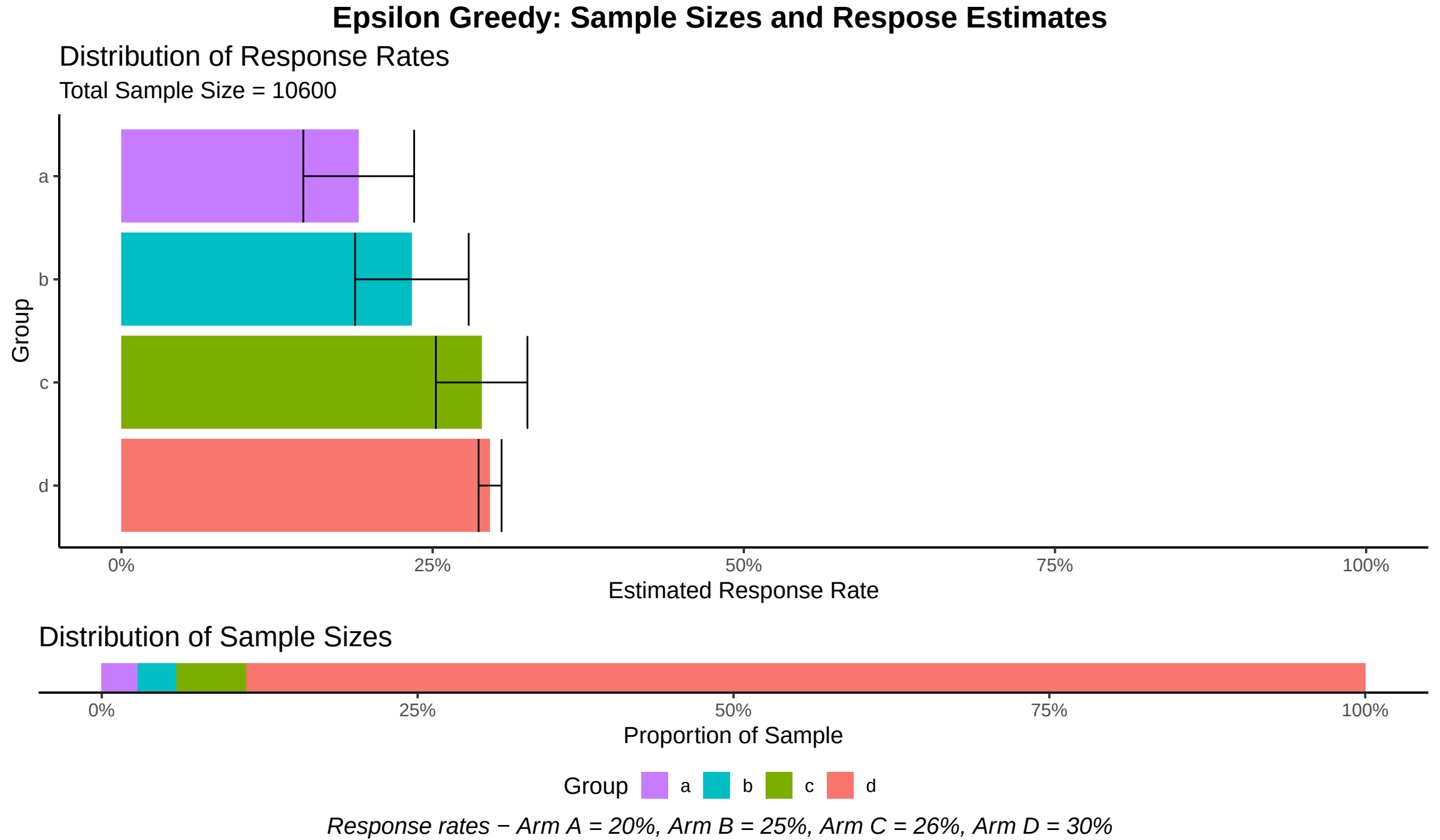
Epsilon Greedy: Sample Sizes and Respose Estimates

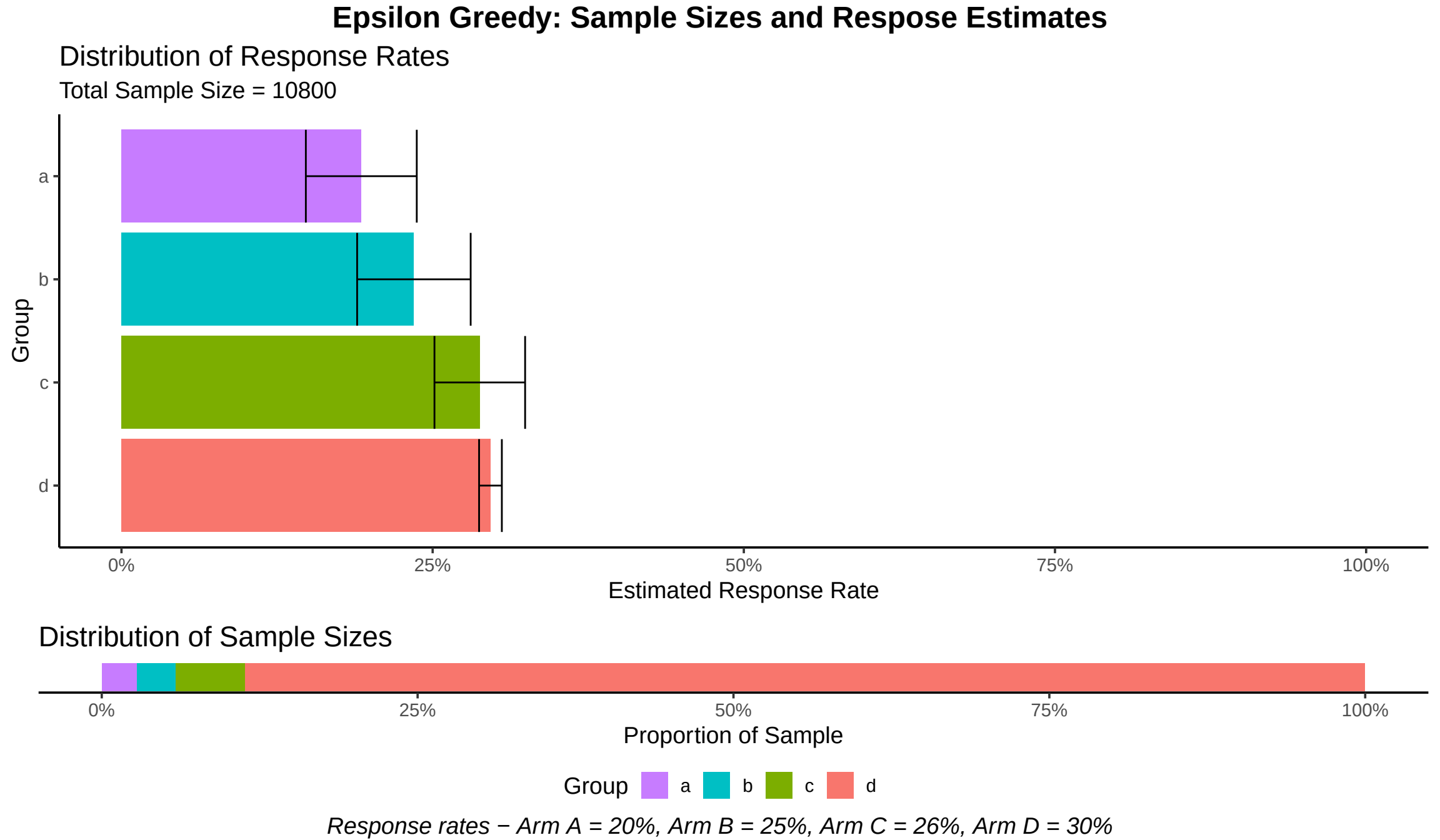


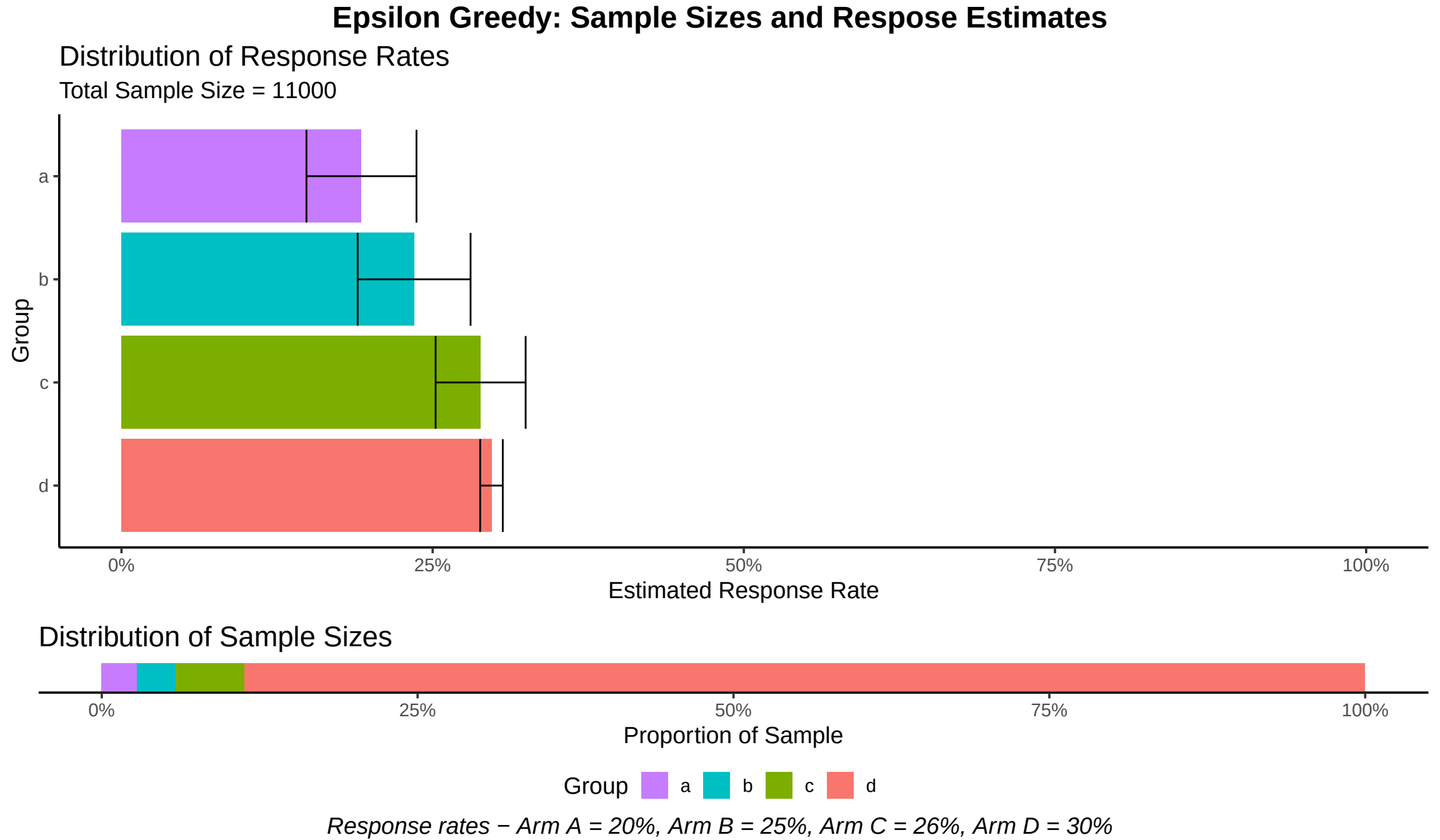
Response rates − Arm A = 20%, Arm B = 25%, Arm C = 26%, Arm D = 30%


Epsilon Greedy: Sample Sizes and Respose Estimates
Distribution of Response Rates
Total Sample Size = 10200
Group
a
b
c
d
0%
25%
50%
75%
100%
Estimated Response Rate
Distribution of Sample Sizes
0%
25%
50%
75%
100%
Proportion of Sample
Group
a
b
c
d
Response rates − Arm A = 20%, Arm B = 25%, Arm C = 26%, Arm D = 30%

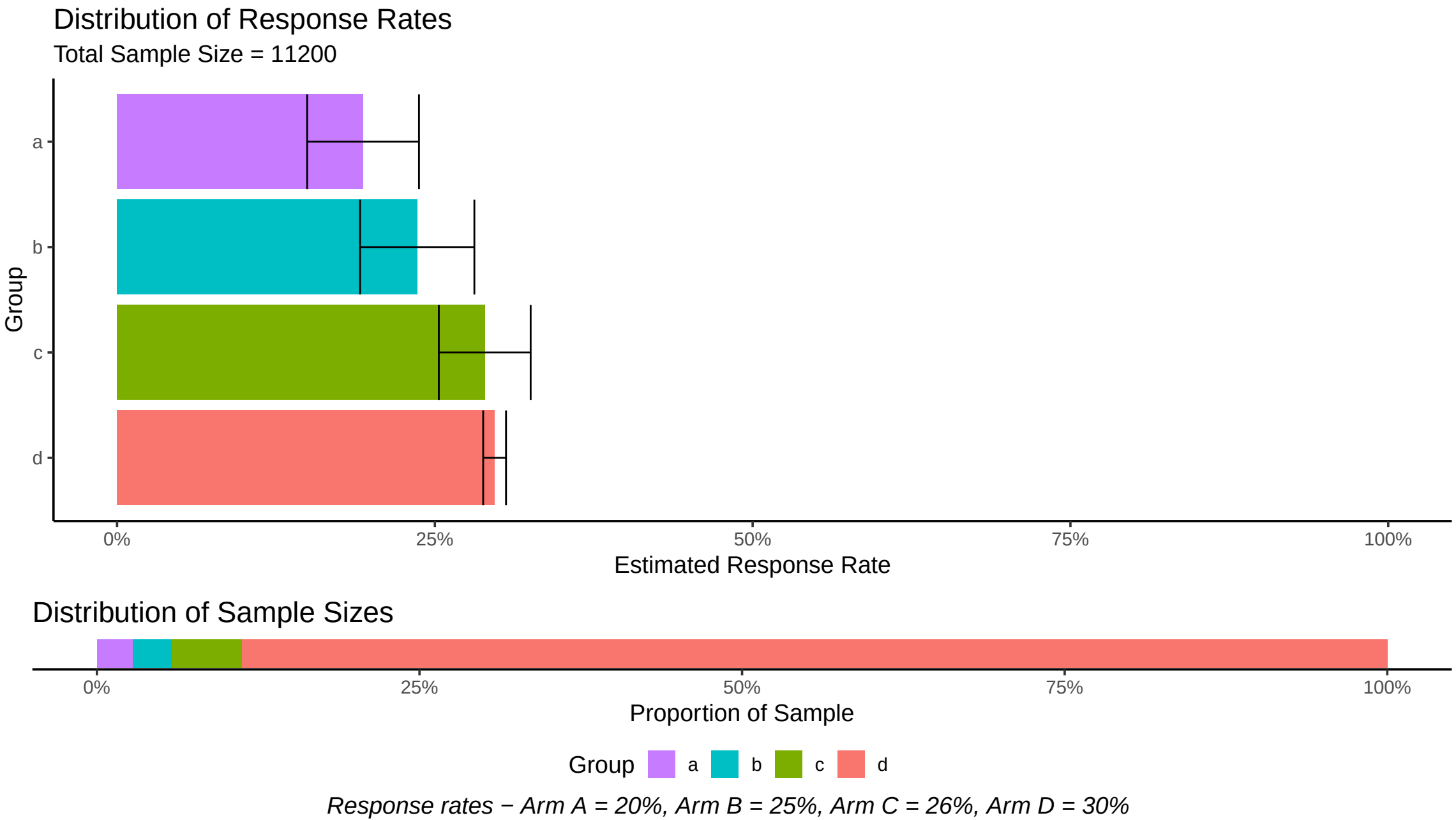

Epsilon Greedy: Sample Sizes and Respose Estimates
Distribution of Response Rates
Total Sample Size = 10400
Group
a
b
c
d
0%
25%
50%
75%
100%
Estimated Response Rate
Distribution of Sample Sizes
0%
25%
50%
75%
100%
Proportion of Sample
Group
a
b
c
d
Response rates − Arm A = 20%, Arm B = 25%, Arm C = 26%, Arm D = 30%


Epsilon Greedy: Sample Sizes and Respose Estimates
Distribution of Response Rates
Total Sample Size = 10600
Group
a
b
c
d
0%
25%
50%
75%
100%
Estimated Response Rate
Distribution of Sample Sizes
0%
25%
50%
75%
100%
Proportion of Sample
Group
a
b
c
d
Response rates − Arm A = 20%, Arm B = 25%, Arm C = 26%, Arm D = 30%

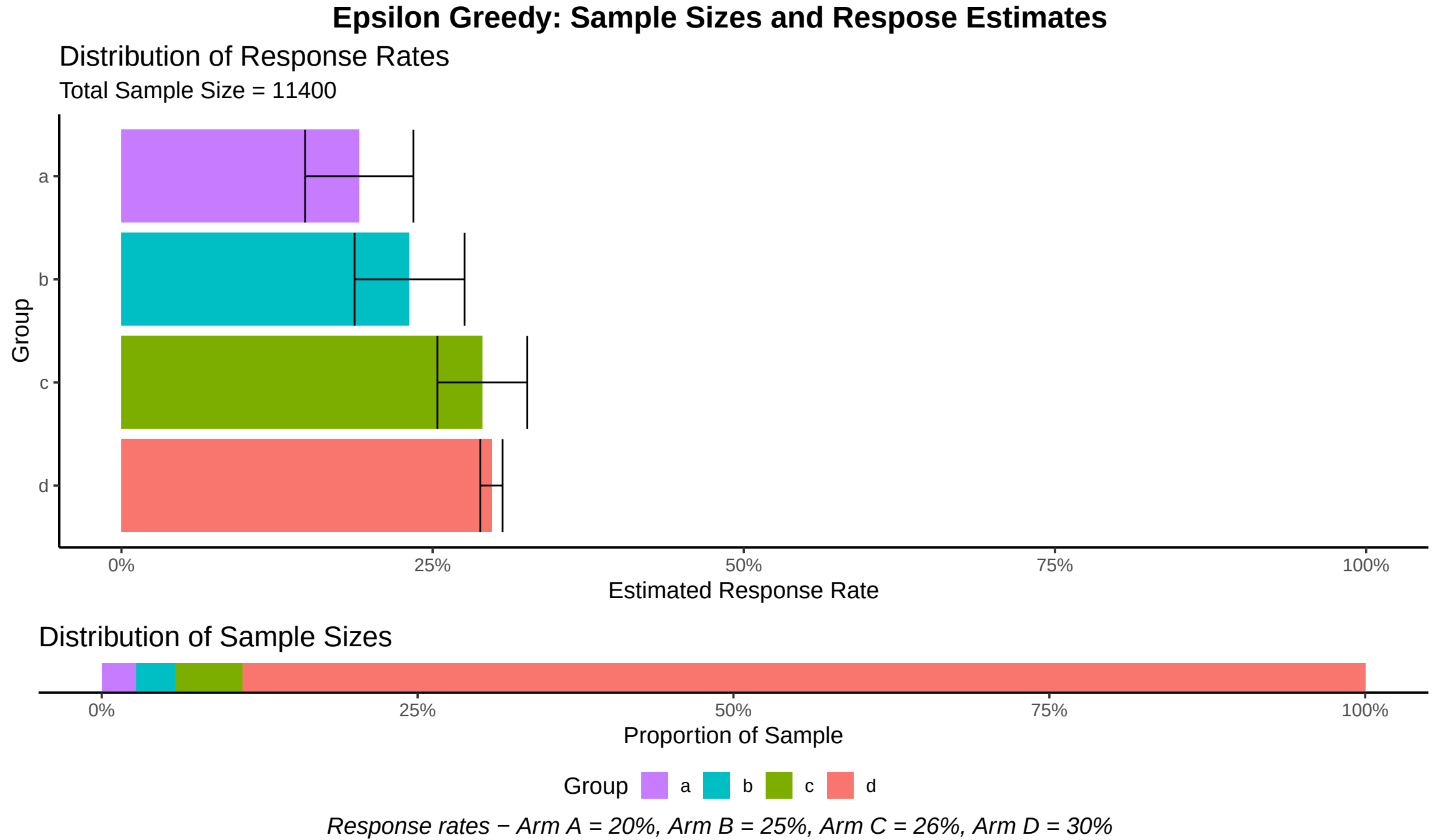

Epsilon Greedy: Sample Sizes and Respose Estimates
Distribution of Response Rates
Total Sample Size = 10800
Group
a
b
c
d
0%
25%
50%
75%
100%
Estimated Response Rate
Distribution of Sample Sizes
0%
25%
50%
75%
100%
Proportion of Sample
Group
a
b
c
d
Response rates − Arm A = 20%, Arm B = 25%, Arm C = 26%, Arm D = 30%


Epsilon Greedy: Sample Sizes and Respose Estimates
Distribution of Response Rates
Total Sample Size = 11000
Group
a
b
c
d
0%
25%
50%
75%
100%
Estimated Response Rate
Distribution of Sample Sizes
0%
25%
50%
75%
100%
Proportion of Sample
Group
a
b
c
d
Response rates − Arm A = 20%, Arm B = 25%, Arm C = 26%, Arm D = 30%

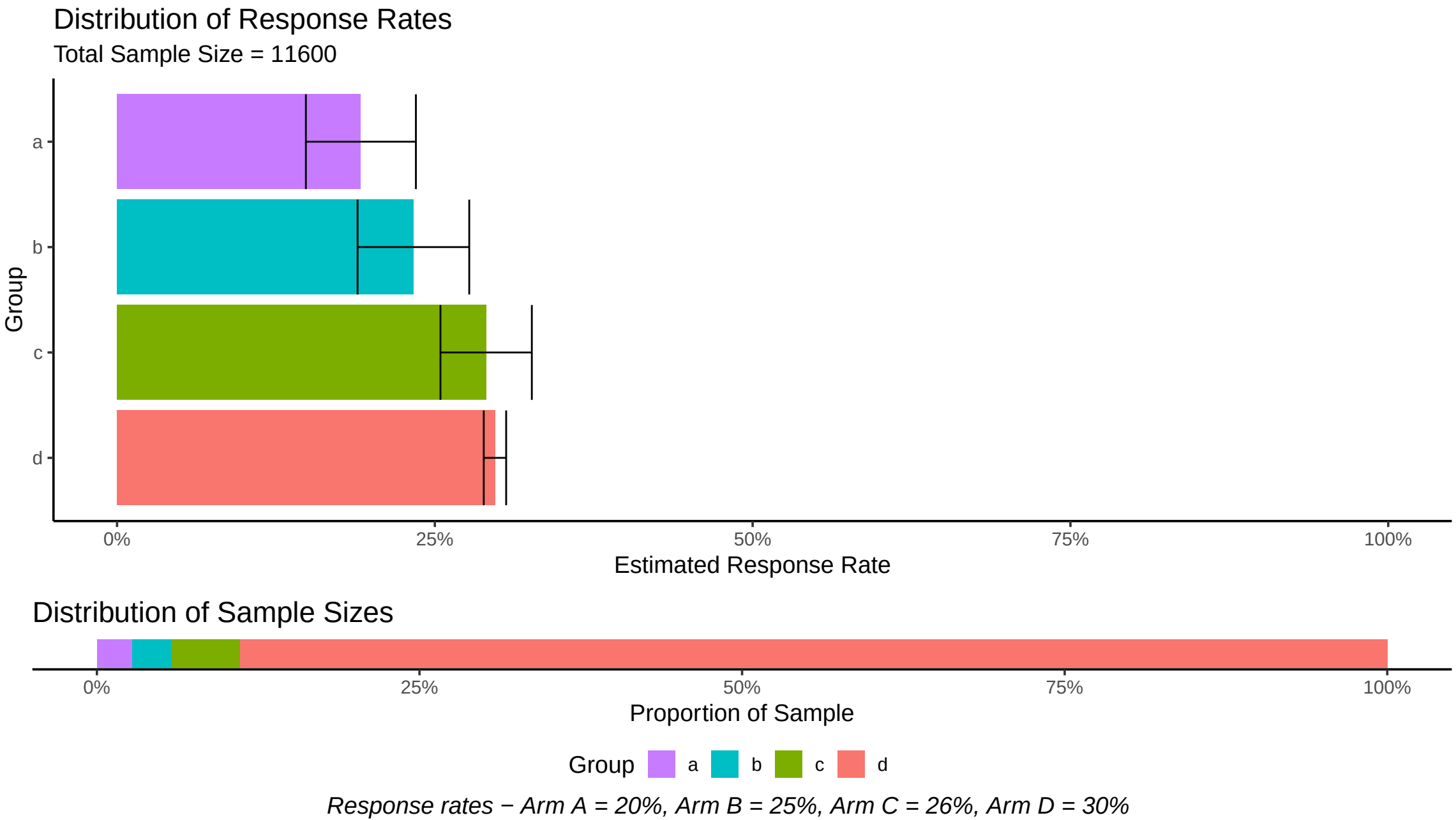
Epsilon Greedy: Sample Sizes and Respose Estimates



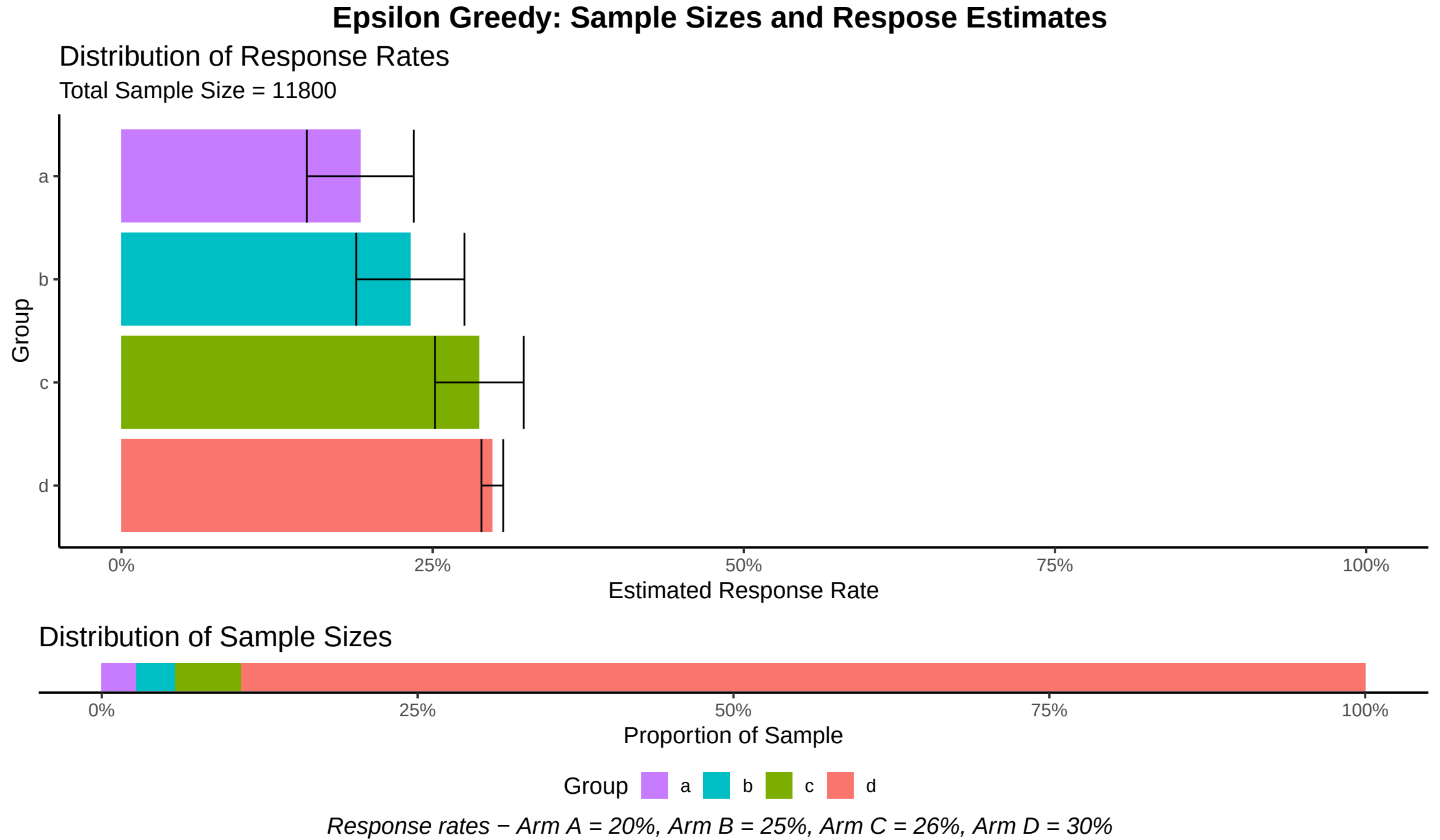
Response rates − Arm A = 20%, Arm B = 25%, Arm C = 26%, Arm D = 30%

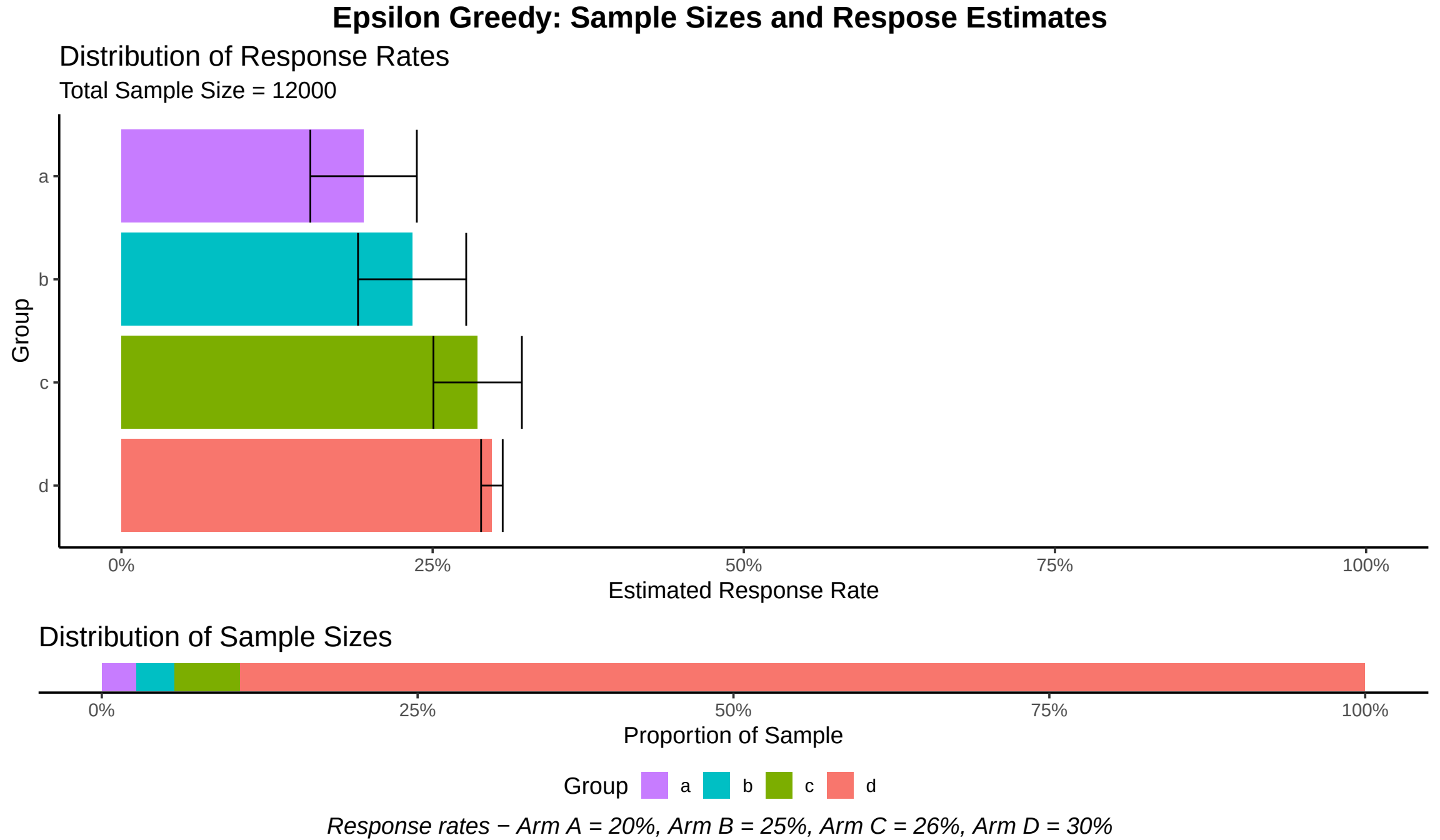

Epsilon Greedy: Sample Sizes and Respose Estimates
Distribution of Response Rates
Total Sample Size = 11400
Group
a
b
c
d
0%
25%
50%
75%
100%
Estimated Response Rate
Distribution of Sample Sizes
0%
25%
50%
75%
100%
Proportion of Sample
Group
a
b
c
d
Response rates − Arm A = 20%, Arm B = 25%, Arm C = 26%, Arm D = 30%

Epsilon Greedy: Sample Sizes and Respose Estimates

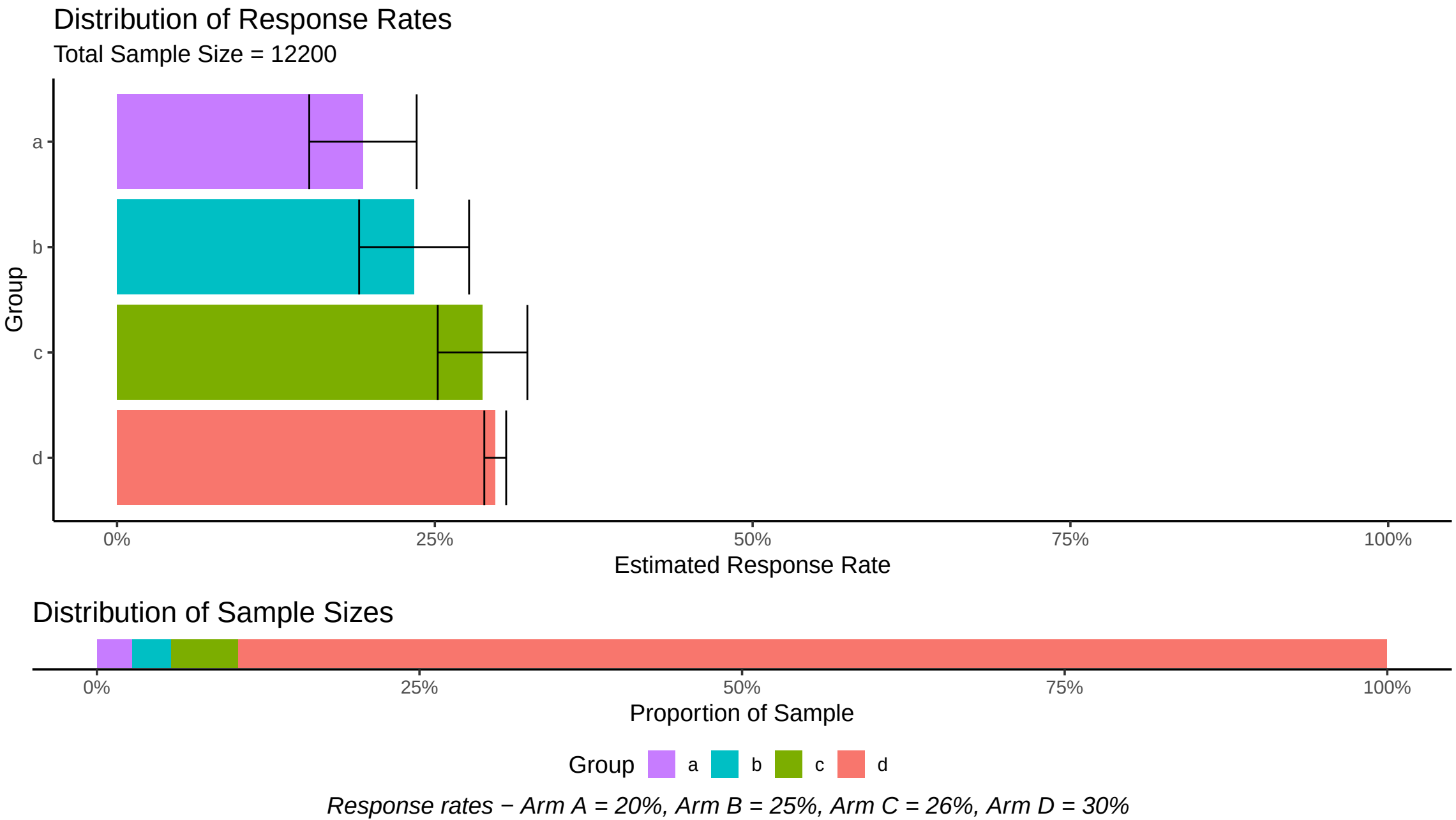


Response rates − Arm A = 20%, Arm B = 25%, Arm C = 26%, Arm D = 30%


Epsilon Greedy: Sample Sizes and Respose Estimates
Distribution of Response Rates
Total Sample Size = 11800
Group
a
b
c
d
0%
25%
50%
75%
100%
Estimated Response Rate
Distribution of Sample Sizes
0%
25%
50%
75%
100%
Proportion of Sample
Group
a
b
c
d
Response rates − Arm A = 20%, Arm B = 25%, Arm C = 26%, Arm D = 30%

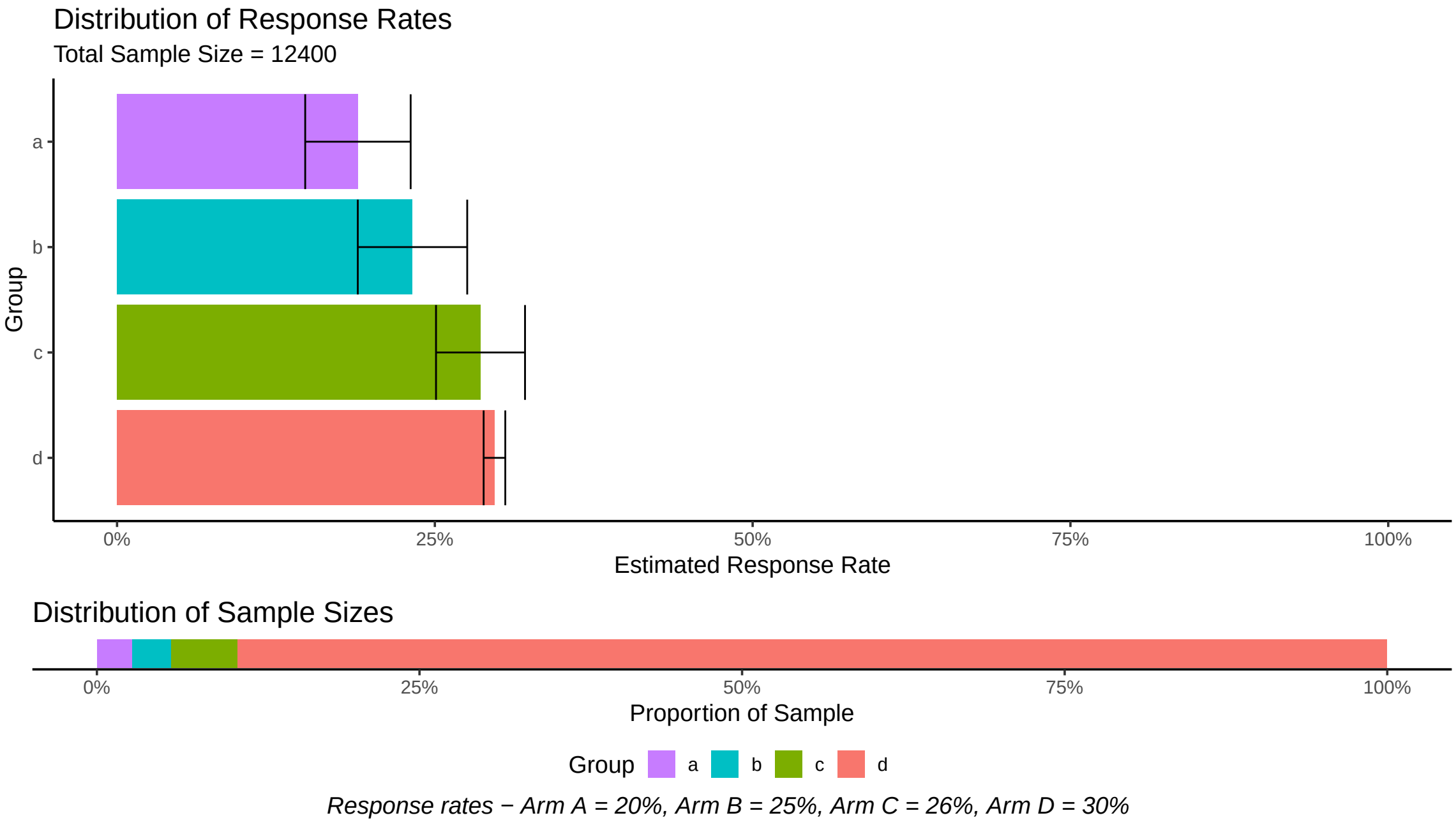

Epsilon Greedy: Sample Sizes and Respose Estimates
Distribution of Response Rates
Total Sample Size = 12000
Group
a
b
c
d
0%
25%
50%
75%
100%
Estimated Response Rate
Distribution of Sample Sizes
0%
25%
50%
75%
100%
Proportion of Sample
Group
a
b
c
d
Response rates − Arm A = 20%, Arm B = 25%, Arm C = 26%, Arm D = 30%

Epsilon Greedy: Sample Sizes and Respose Estimates

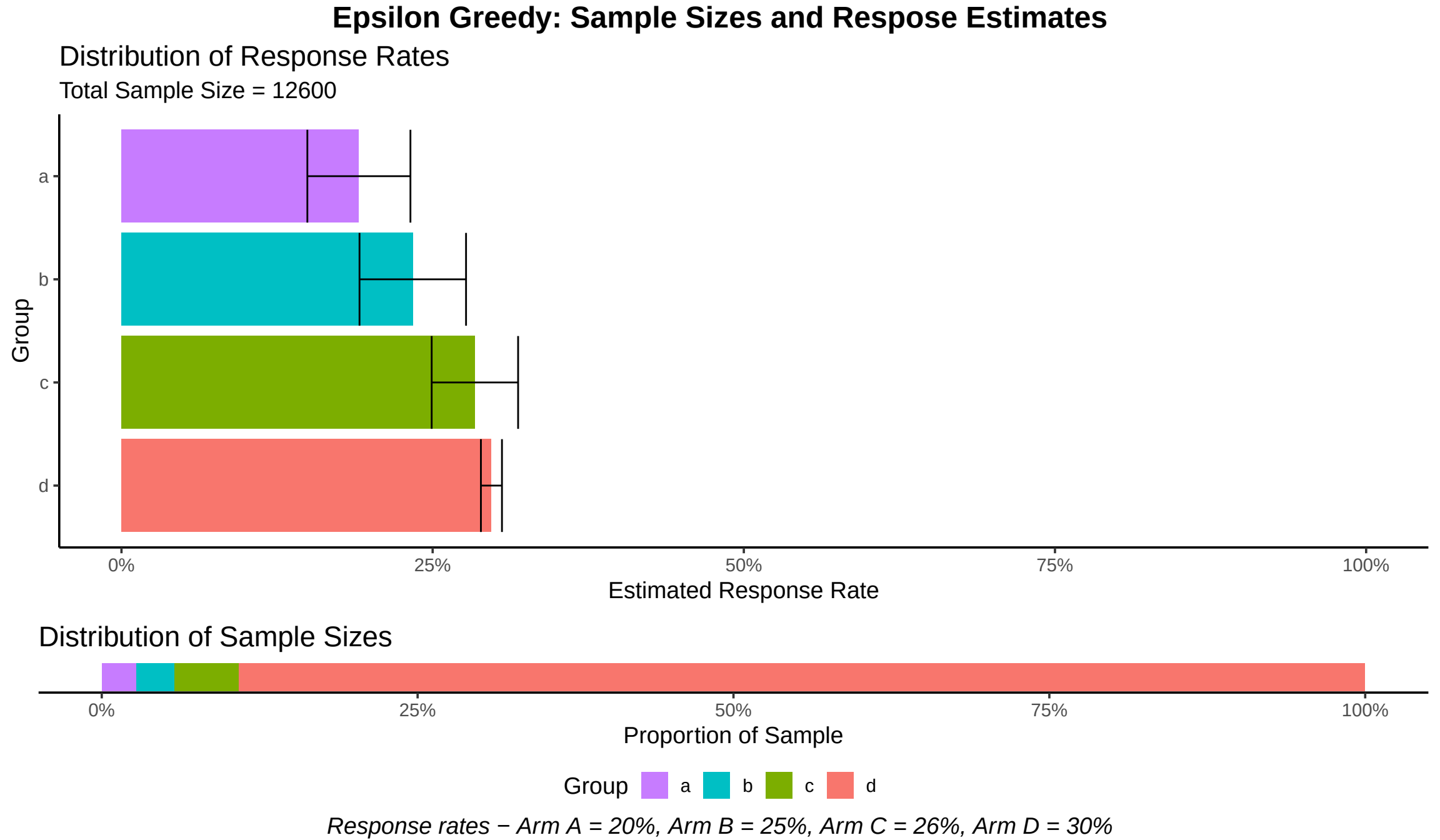


Response rates − Arm A = 20%, Arm B = 25%, Arm C = 26%, Arm D = 30%

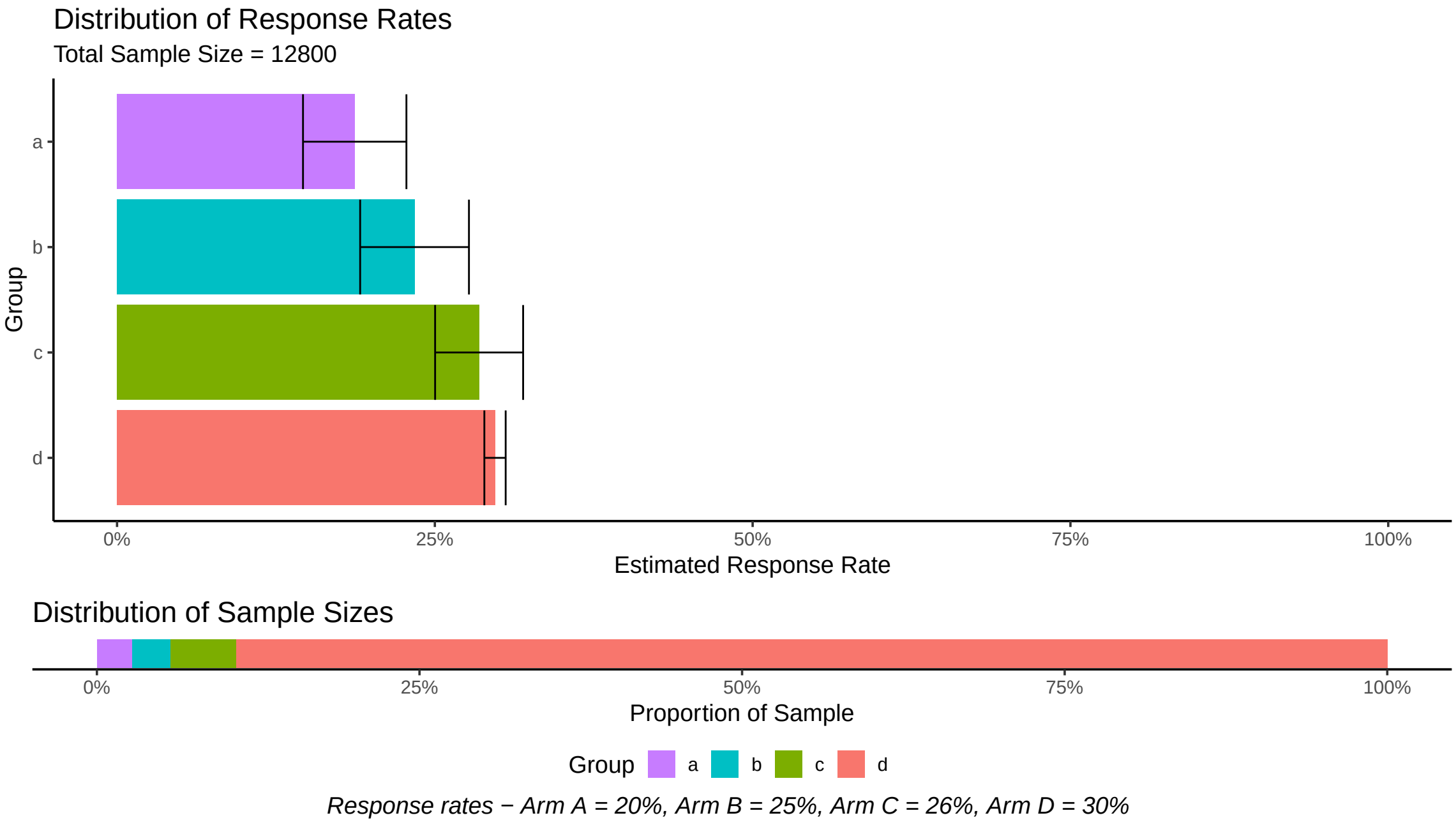
Epsilon Greedy: Sample Sizes and Respose Estimates



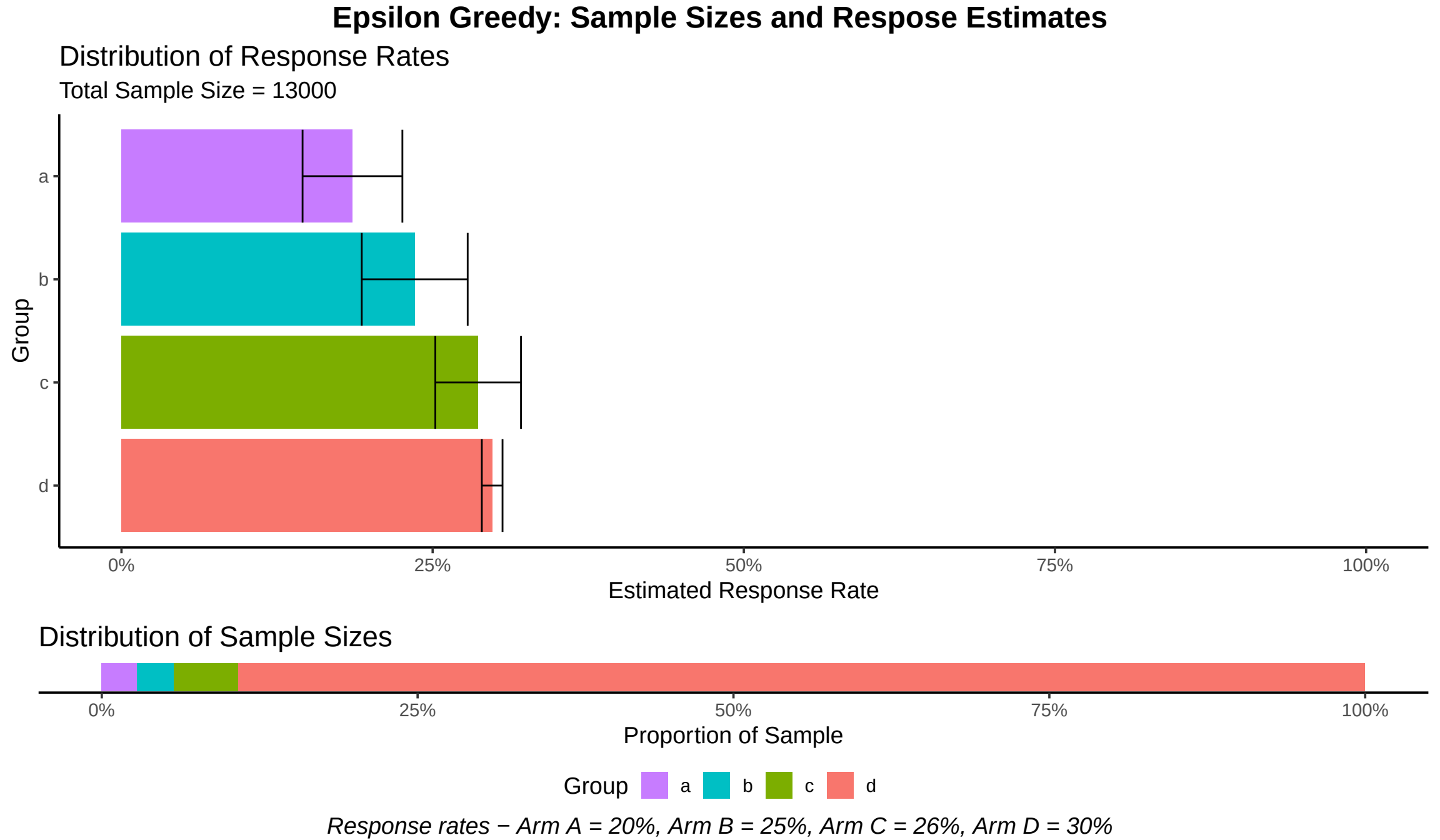
Response rates − Arm A = 20%, Arm B = 25%, Arm C = 26%, Arm D = 30%

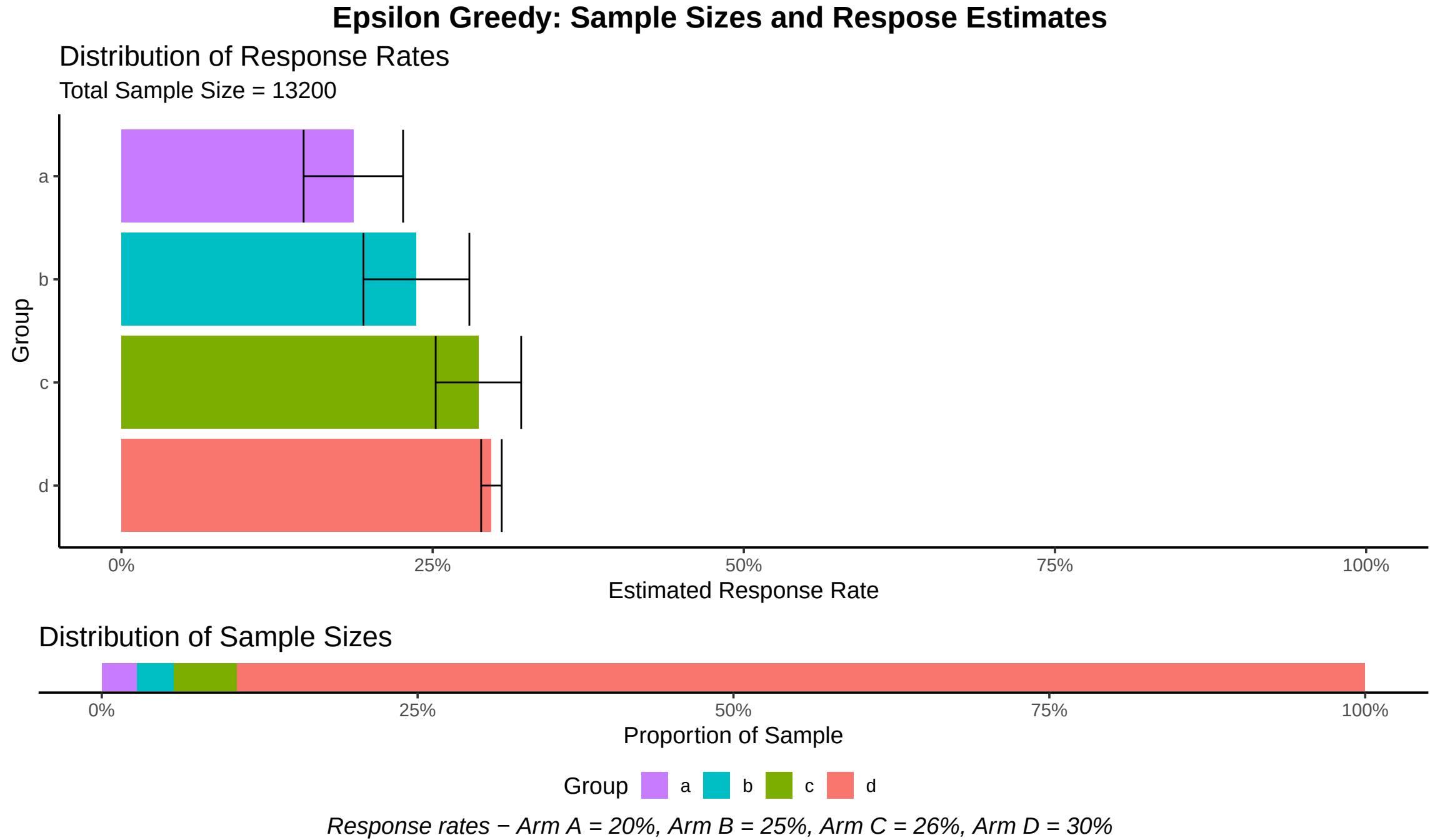

Epsilon Greedy: Sample Sizes and Respose Estimates
Distribution of Response Rates
Total Sample Size = 12600
Group
a
b
c
d
0%
25%
50%
75%
100%
Estimated Response Rate
Distribution of Sample Sizes
0%
25%
50%
75%
100%
Proportion of Sample
Group
a
b
c
d
Response rates − Arm A = 20%, Arm B = 25%, Arm C = 26%, Arm D = 30%

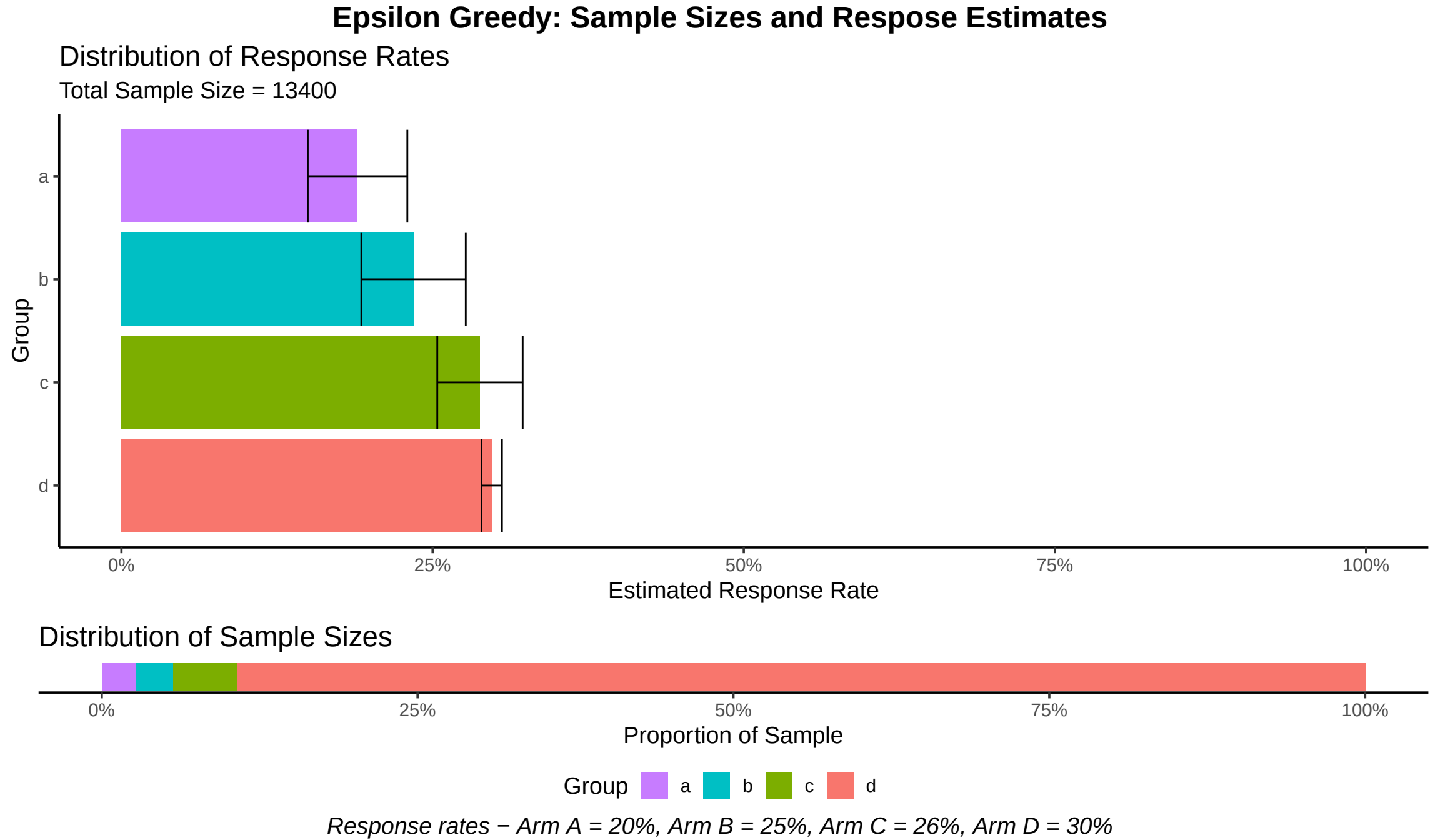
Epsilon Greedy: Sample Sizes and Respose Estimates

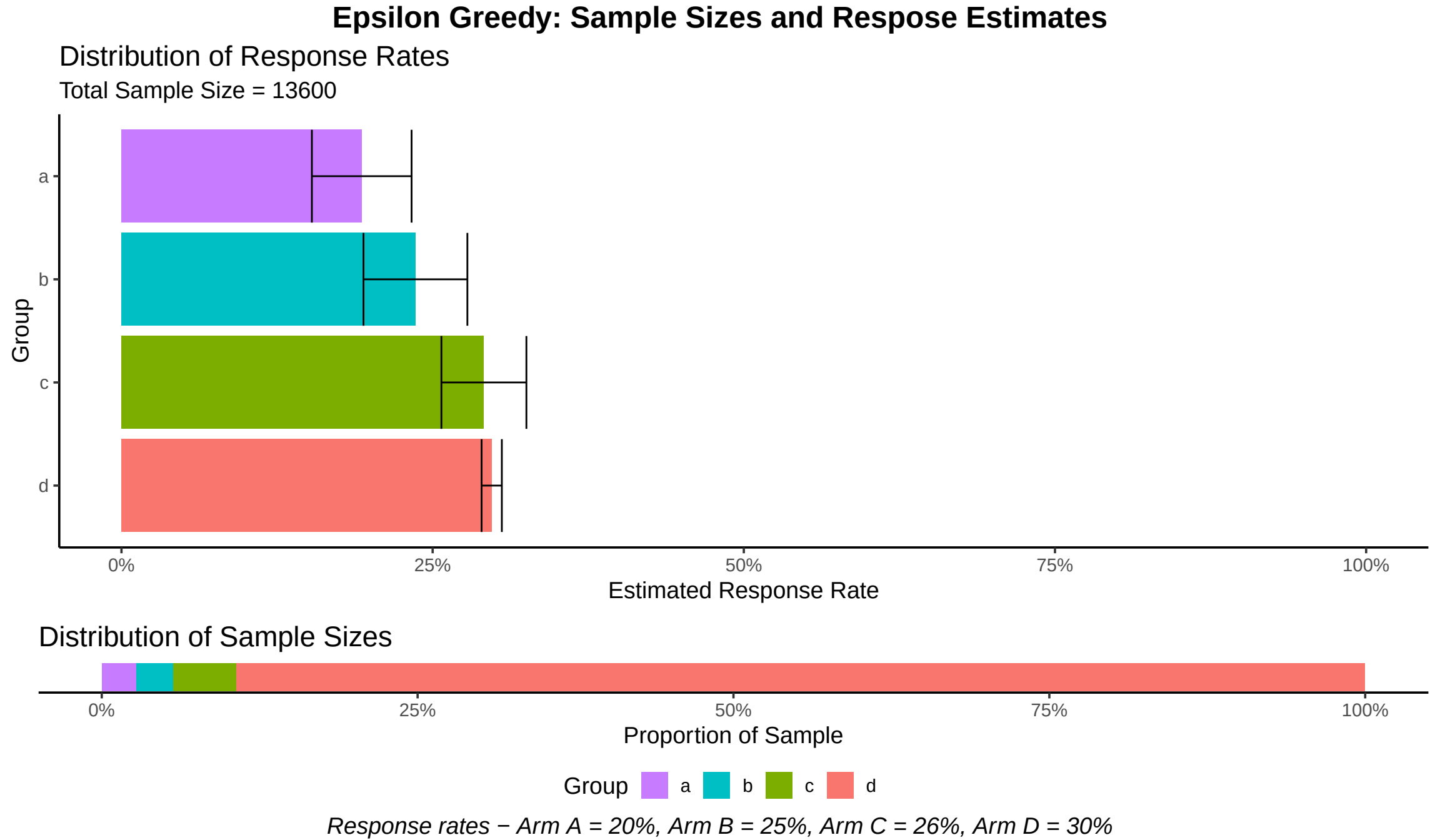


Response rates − Arm A = 20%, Arm B = 25%, Arm C = 26%, Arm D = 30%

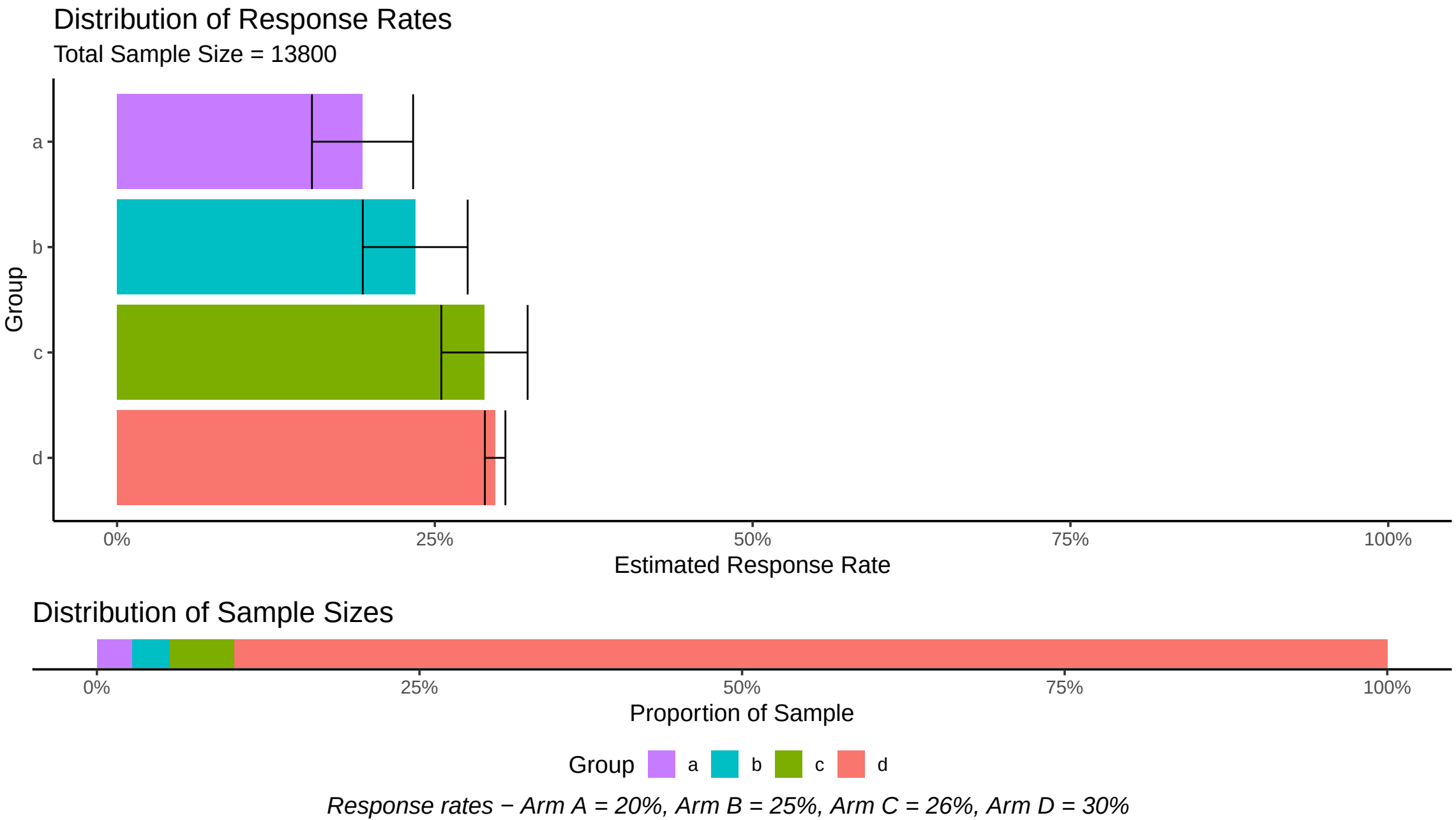

Epsilon Greedy: Sample Sizes and Respose Estimates
Distribution of Response Rates
Total Sample Size = 13000
Group
a
b
c
d
0%
25%
50%
75%
100%
Estimated Response Rate
Distribution of Sample Sizes
0%
25%
50%
75%
100%
Proportion of Sample
Group
a
b
c
d
Response rates − Arm A = 20%, Arm B = 25%, Arm C = 26%, Arm D = 30%


Epsilon Greedy: Sample Sizes and Respose Estimates
Distribution of Response Rates
Total Sample Size = 13200
Group
a
b
c
d
0%
25%
50%
75%
100%
Estimated Response Rate
Distribution of Sample Sizes
0%
25%
50%
75%
100%
Proportion of Sample
Group
a
b
c
d
Response rates − Arm A = 20%, Arm B = 25%, Arm C = 26%, Arm D = 30%

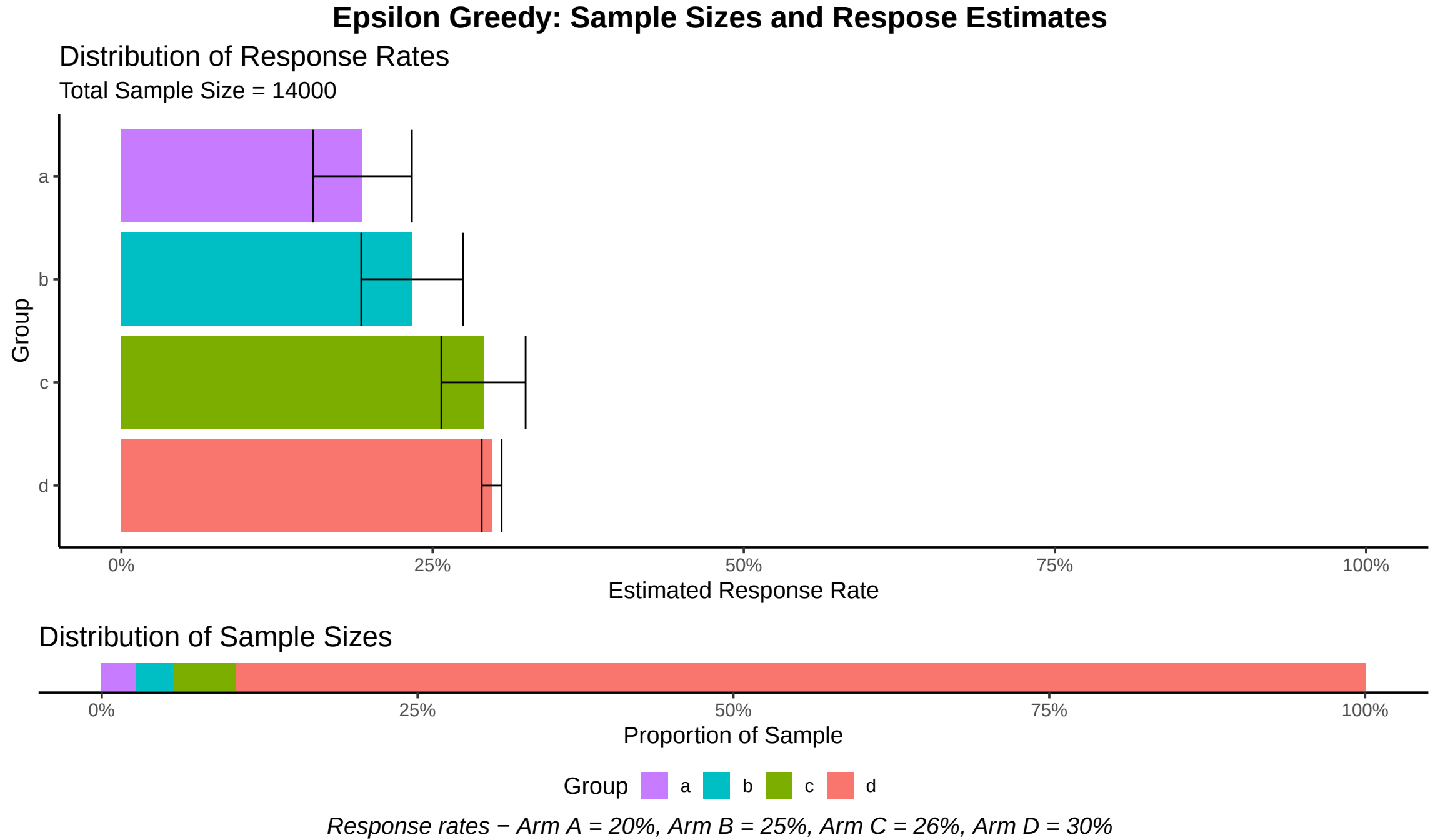

Epsilon Greedy: Sample Sizes and Respose Estimates
Distribution of Response Rates
Total Sample Size = 13400
Group
a
b
c
d
0%
25%
50%
75%
100%
Estimated Response Rate
Distribution of Sample Sizes
0%
25%
50%
75%
100%
Proportion of Sample
Group
a
b
c
d
Response rates − Arm A = 20%, Arm B = 25%, Arm C = 26%, Arm D = 30%

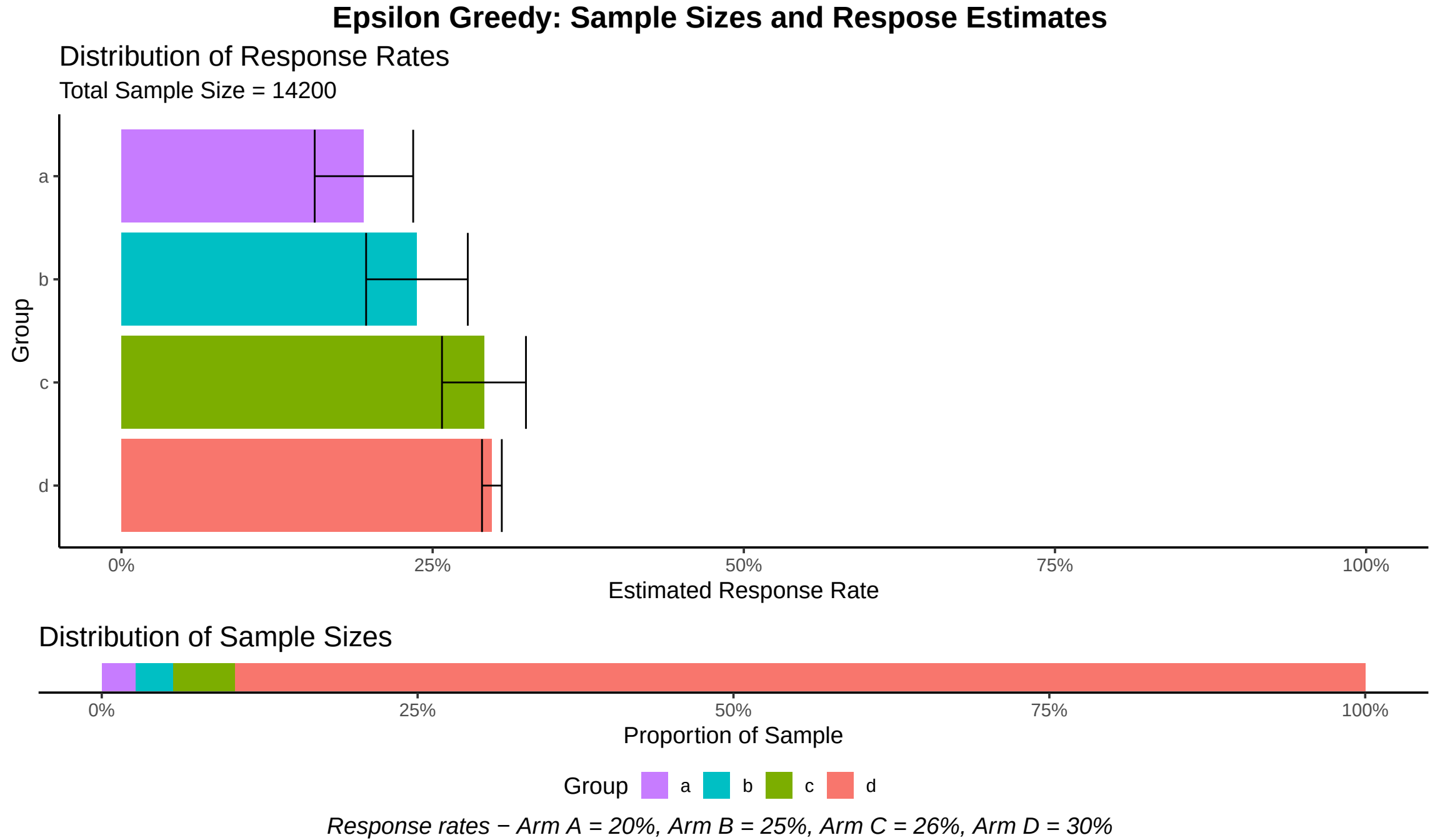

Epsilon Greedy: Sample Sizes and Respose Estimates
Distribution of Response Rates
Total Sample Size = 13600
Group
a
b
c
d
0%
25%
50%
75%
100%
Estimated Response Rate
Distribution of Sample Sizes
0%
25%
50%
75%
100%
Proportion of Sample
Group
a
b
c
d
Response rates − Arm A = 20%, Arm B = 25%, Arm C = 26%, Arm D = 30%

Epsilon Greedy: Sample Sizes and Respose Estimates

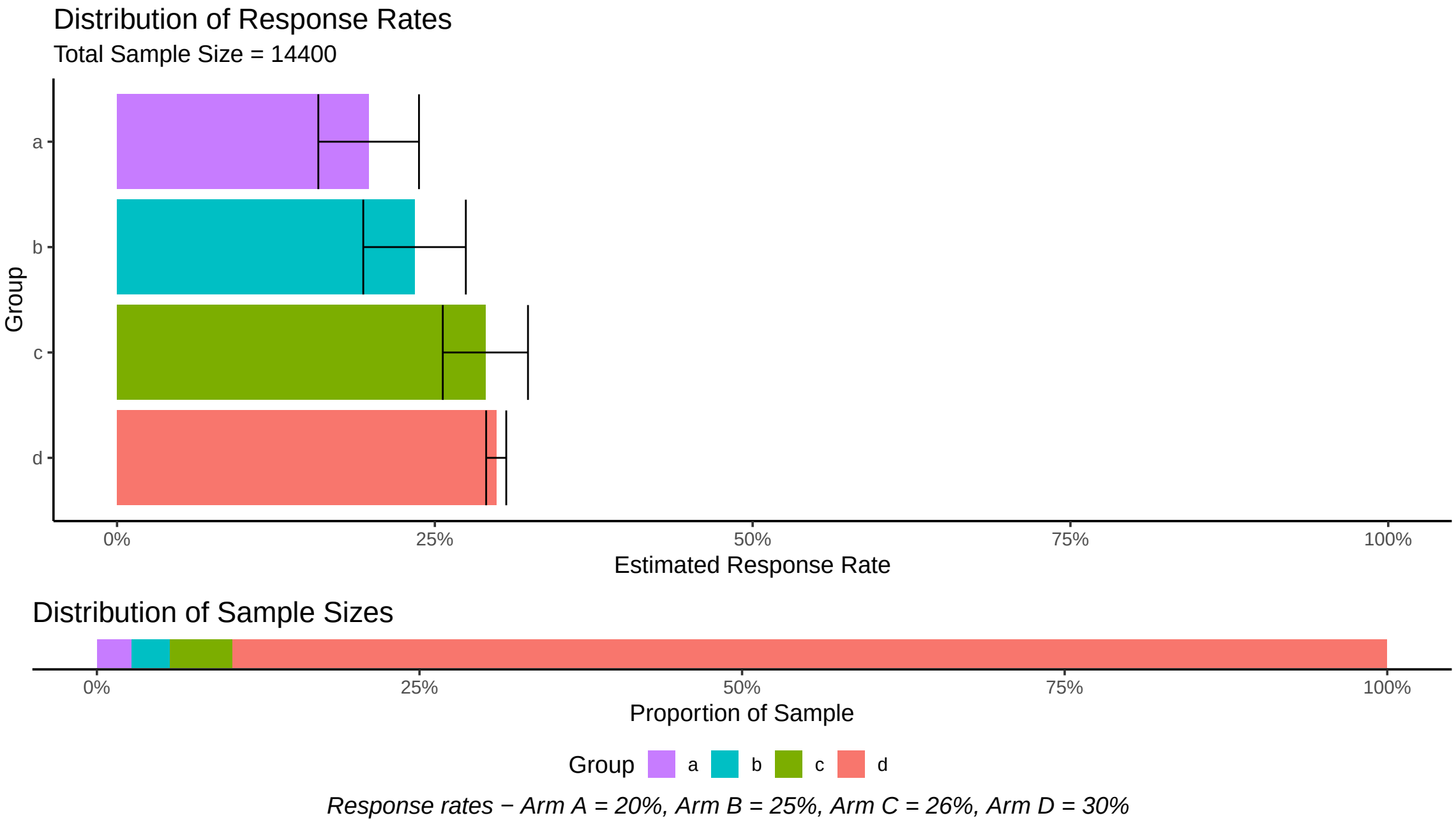


Response rates − Arm A = 20%, Arm B = 25%, Arm C = 26%, Arm D = 30%


Epsilon Greedy: Sample Sizes and Respose Estimates
Distribution of Response Rates
Total Sample Size = 14000
Group
a
b
c
d
0%
25%
50%
75%
100%
Estimated Response Rate
Distribution of Sample Sizes
0%
25%
50%
75%
100%
Proportion of Sample
Group
a
b
c
d
Response rates − Arm A = 20%, Arm B = 25%, Arm C = 26%, Arm D = 30%

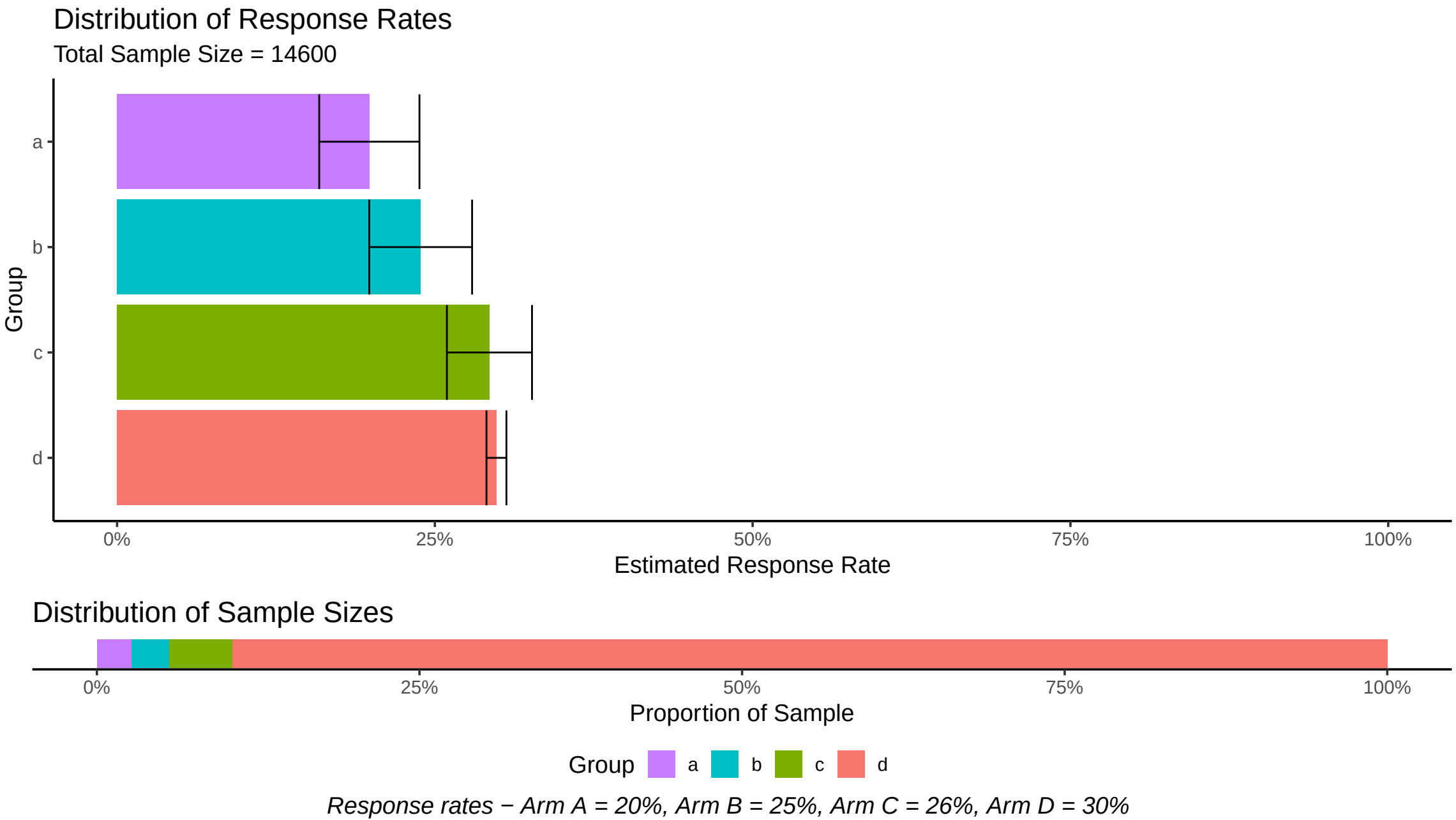

Epsilon Greedy: Sample Sizes and Respose Estimates
Distribution of Response Rates
Total Sample Size = 14200
Group
a
b
c
d
0%
25%
50%
75%
100%
Estimated Response Rate
Distribution of Sample Sizes
0%
25%
50%
75%
100%
Proportion of Sample
Group
a
b
c
d
Response rates − Arm A = 20%, Arm B = 25%, Arm C = 26%, Arm D = 30%

Epsilon Greedy: Sample Sizes and Respose Estimates



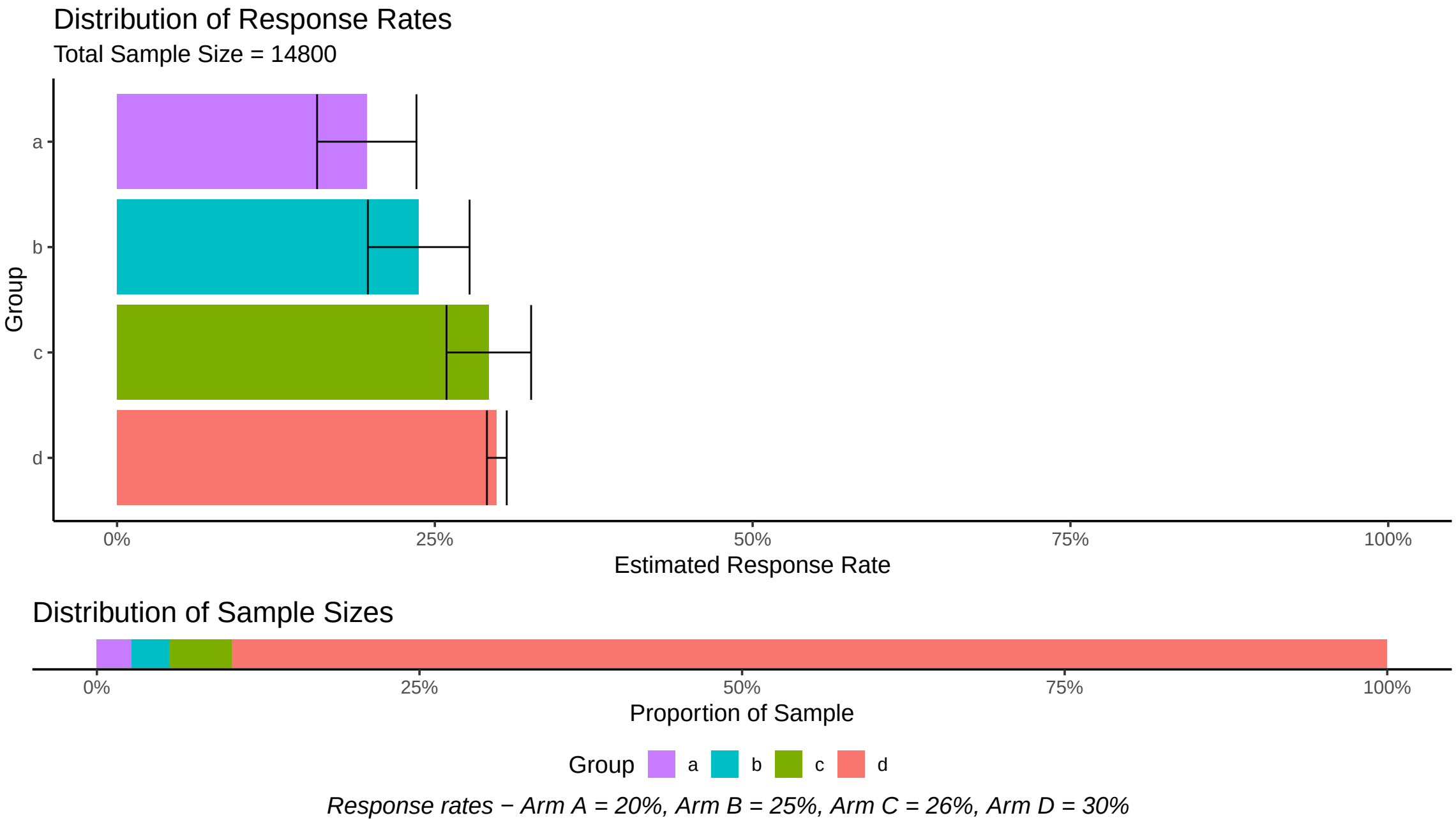
Response rates − Arm A = 20%, Arm B = 25%, Arm C = 26%, Arm D = 30%

Epsilon Greedy: Sample Sizes and Respose Estimates

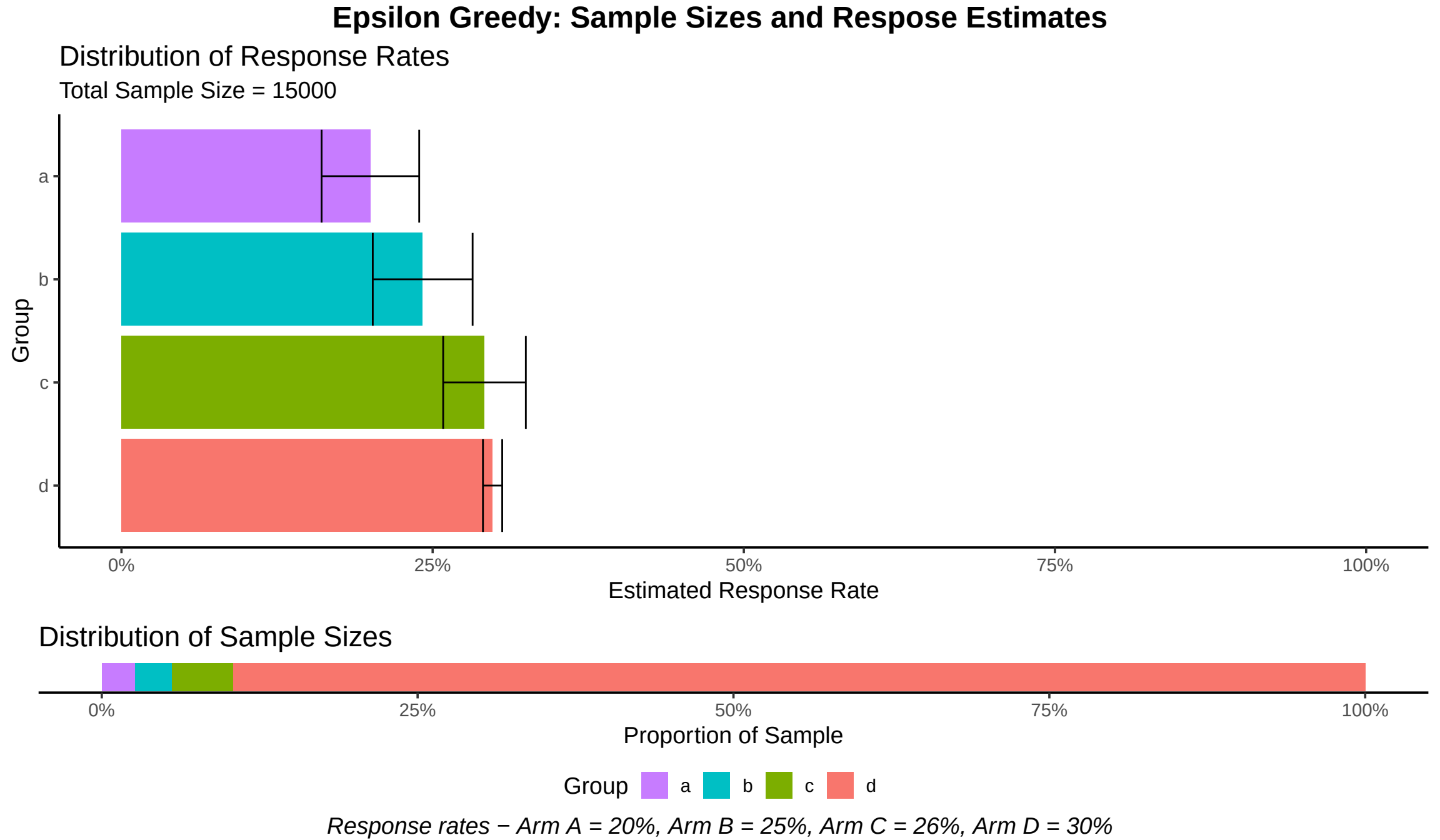


Response rates − Arm A = 20%, Arm B = 25%, Arm C = 26%, Arm D = 30%

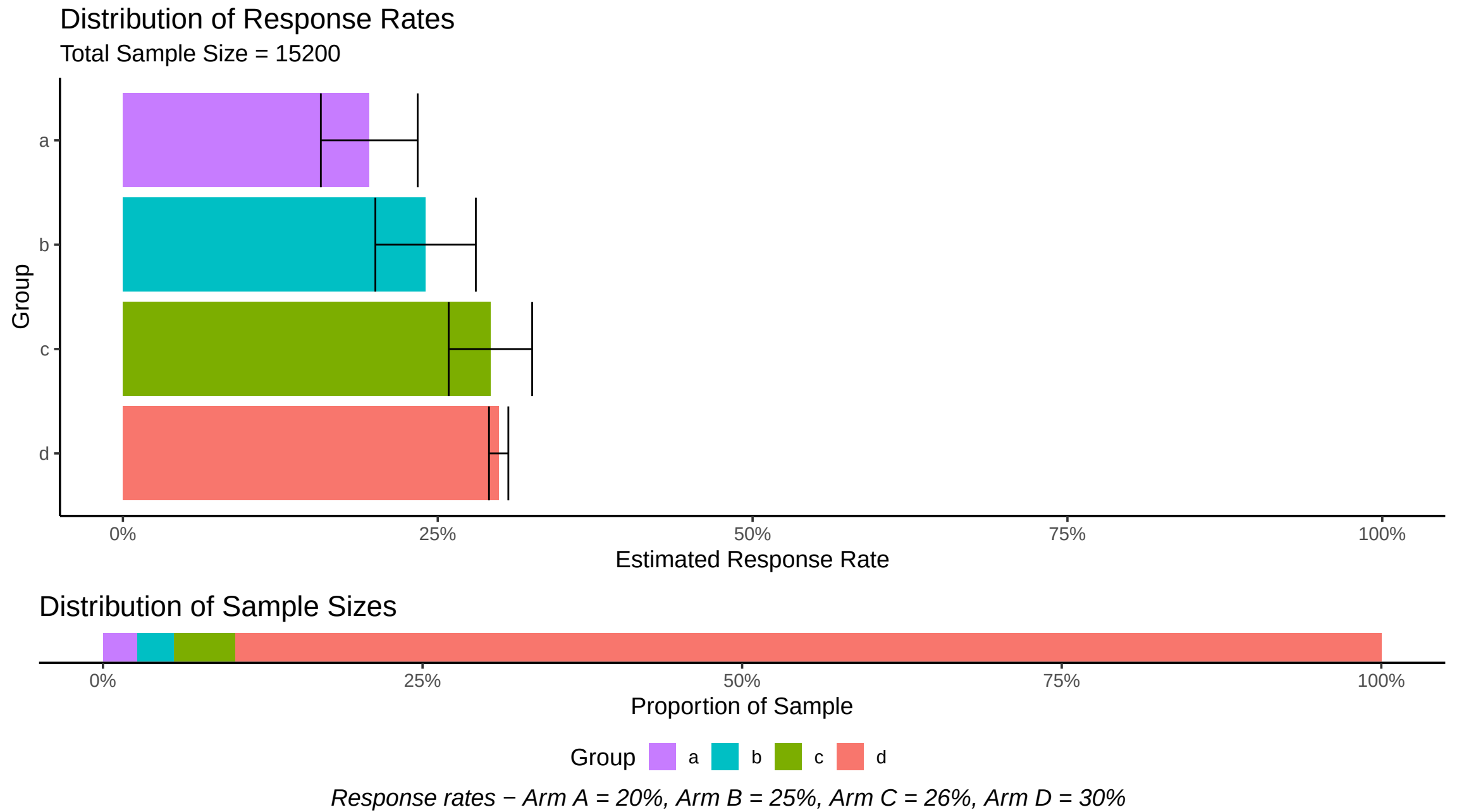
Epsilon Greedy: Sample Sizes and Respose Estimates



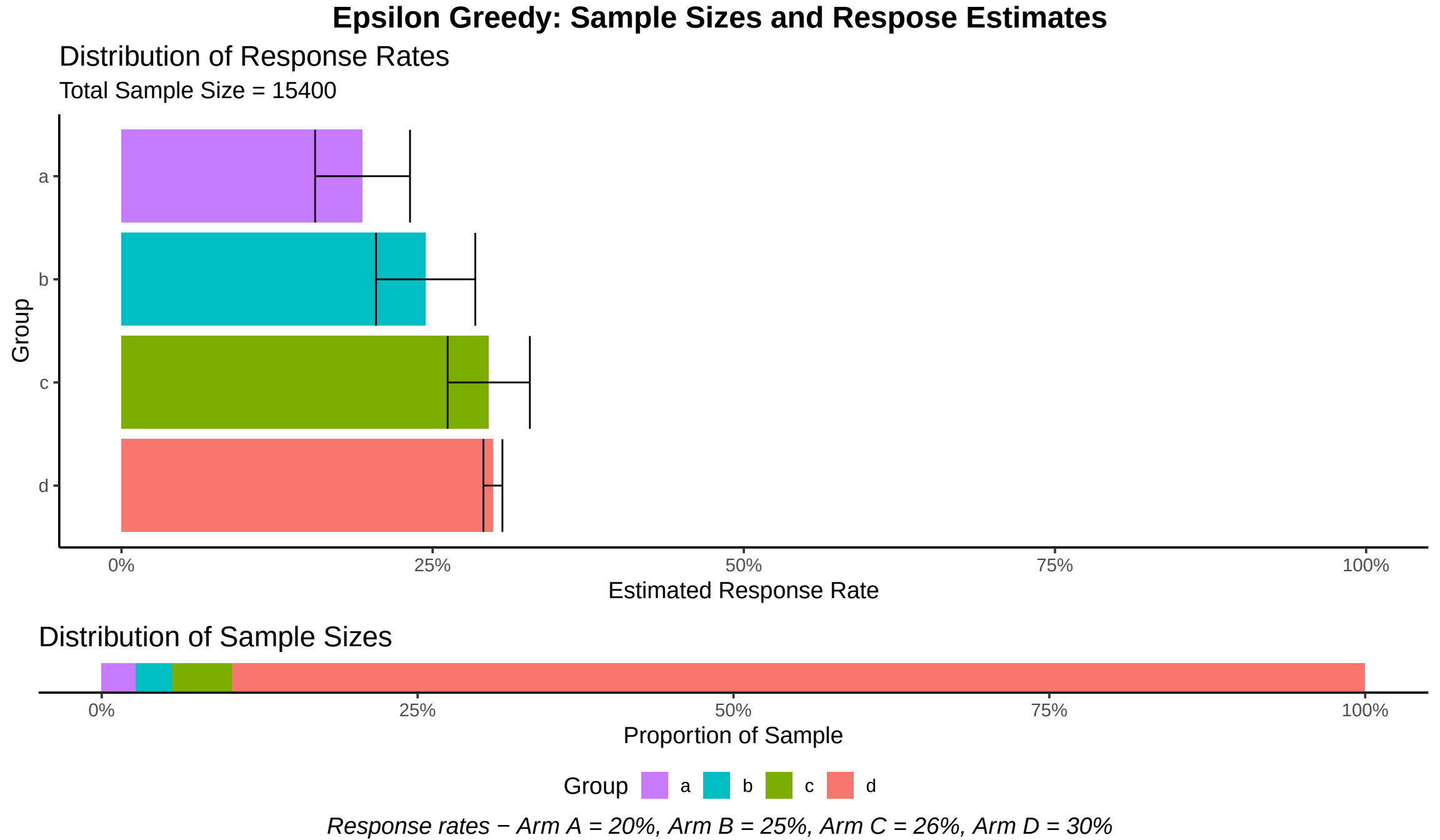
Response rates − Arm A = 20%, Arm B = 25%, Arm C = 26%, Arm D = 30%

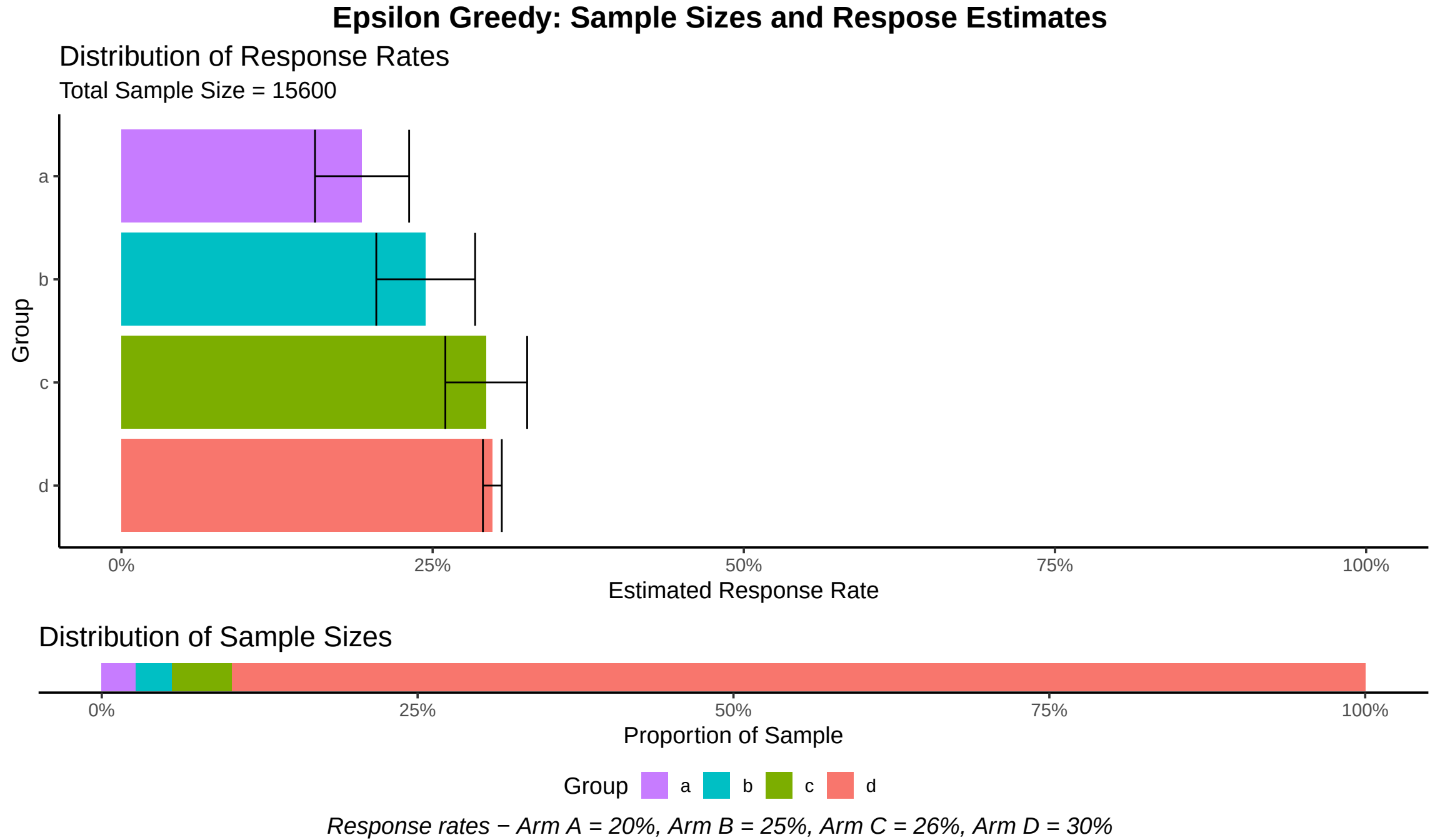

Epsilon Greedy: Sample Sizes and Respose Estimates
Distribution of Response Rates
Total Sample Size = 15000
Group
a
b
c
d
0%
25%
50%
75%
100%
Estimated Response Rate
Distribution of Sample Sizes
0%
25%
50%
75%
100%
Proportion of Sample
Group
a
b
c
d
Response rates − Arm A = 20%, Arm B = 25%, Arm C = 26%, Arm D = 30%

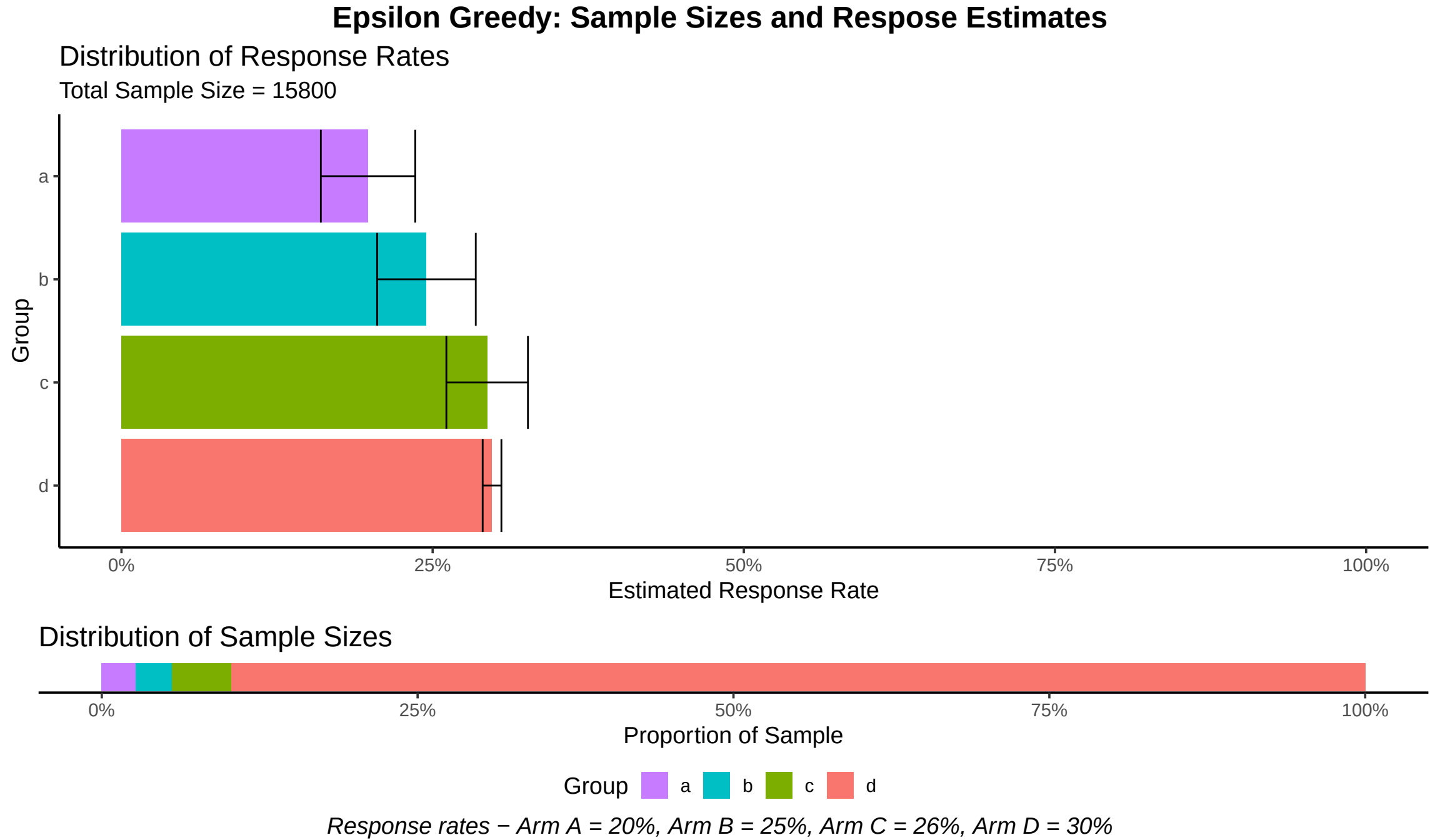
Epsilon Greedy: Sample Sizes and Respose Estimates



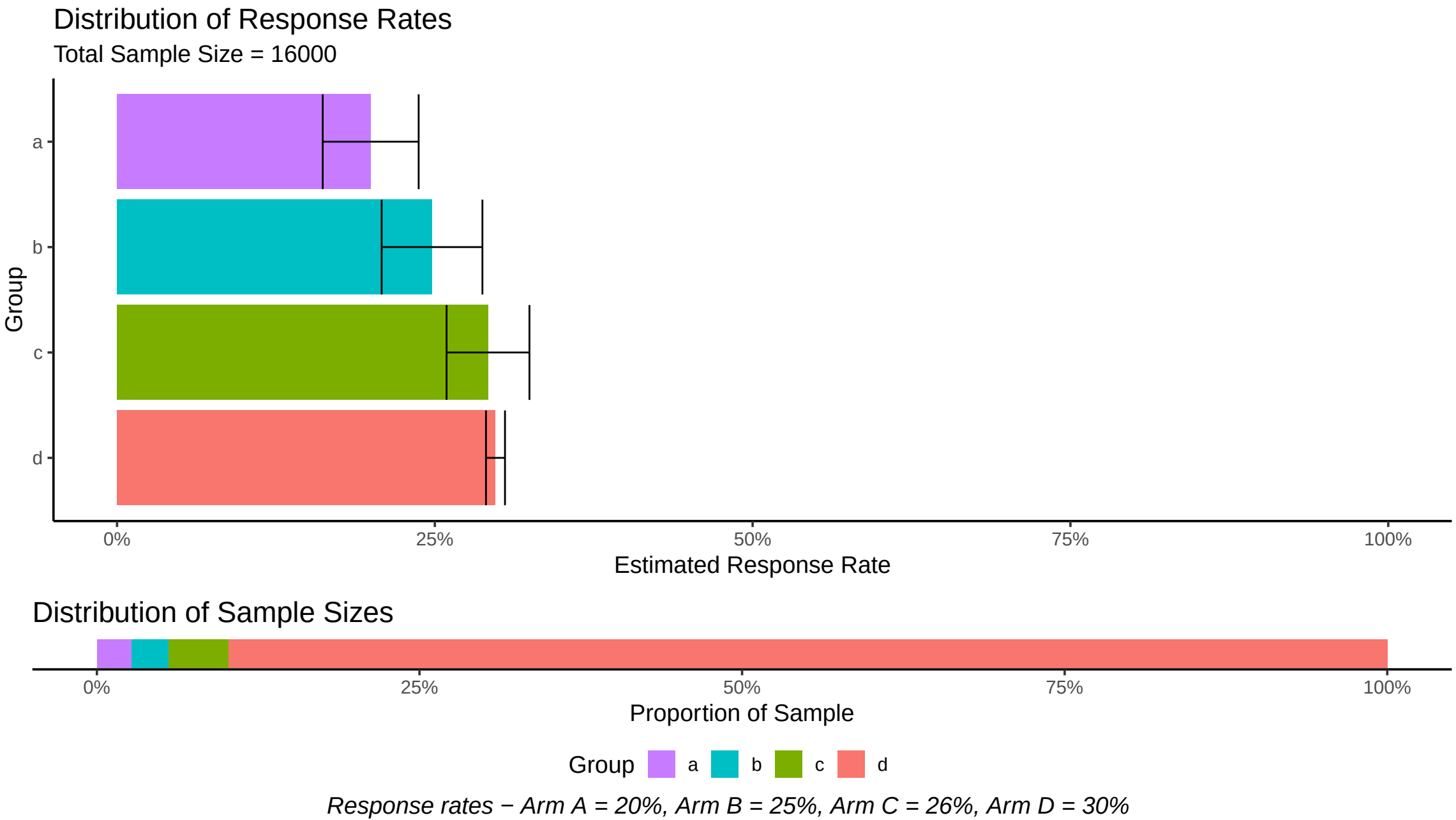
Response rates − Arm A = 20%, Arm B = 25%, Arm C = 26%, Arm D = 30%


Epsilon Greedy: Sample Sizes and Respose Estimates
Distribution of Response Rates
Total Sample Size = 15400
Group
a
b
c
d
0%
25%
50%
75%
100%
Estimated Response Rate
Distribution of Sample Sizes
0%
25%
50%
75%
100%
Proportion of Sample
Group
a
b
c
d
Response rates − Arm A = 20%, Arm B = 25%, Arm C = 26%, Arm D = 30%


Epsilon Greedy: Sample Sizes and Respose Estimates
Distribution of Response Rates
Total Sample Size = 15600
Group
a
b
c
d
0%
25%
50%
75%
100%
Estimated Response Rate
Distribution of Sample Sizes
0%
25%
50%
75%
100%
Proportion of Sample
Group
a
b
c
d
Response rates − Arm A = 20%, Arm B = 25%, Arm C = 26%, Arm D = 30%

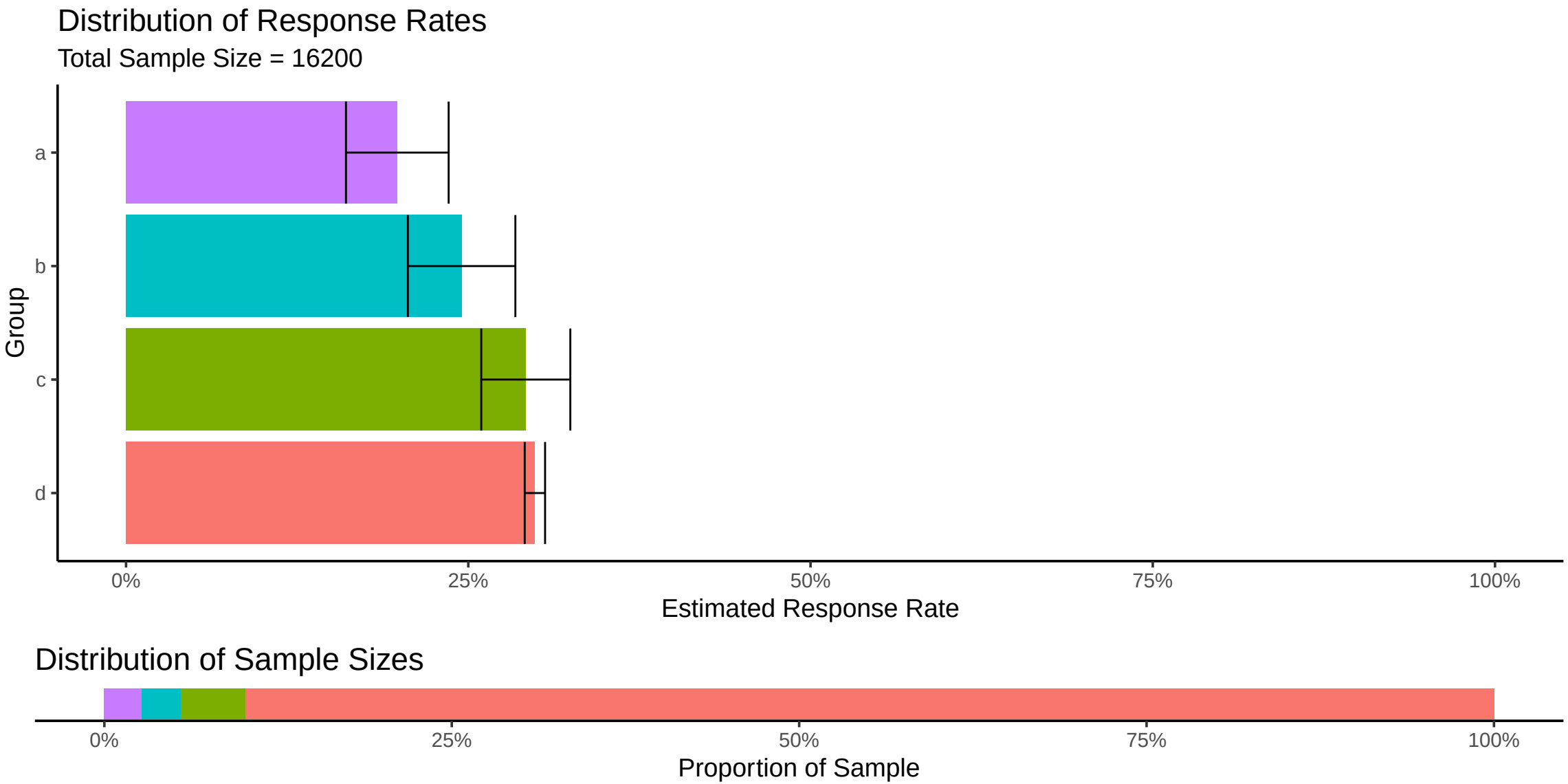

Epsilon Greedy: Sample Sizes and Respose Estimates
Distribution of Response Rates
Total Sample Size = 15800
Group
a
b
c
d
0%
25%
50%
75%
100%
Estimated Response Rate
Distribution of Sample Sizes
0%
25%
50%
75%
100%
Proportion of Sample
Group
a
b
c
d
Response rates − Arm A = 20%, Arm B = 25%, Arm C = 26%, Arm D = 30%

Epsilon Greedy: Sample Sizes and Respose Estimates

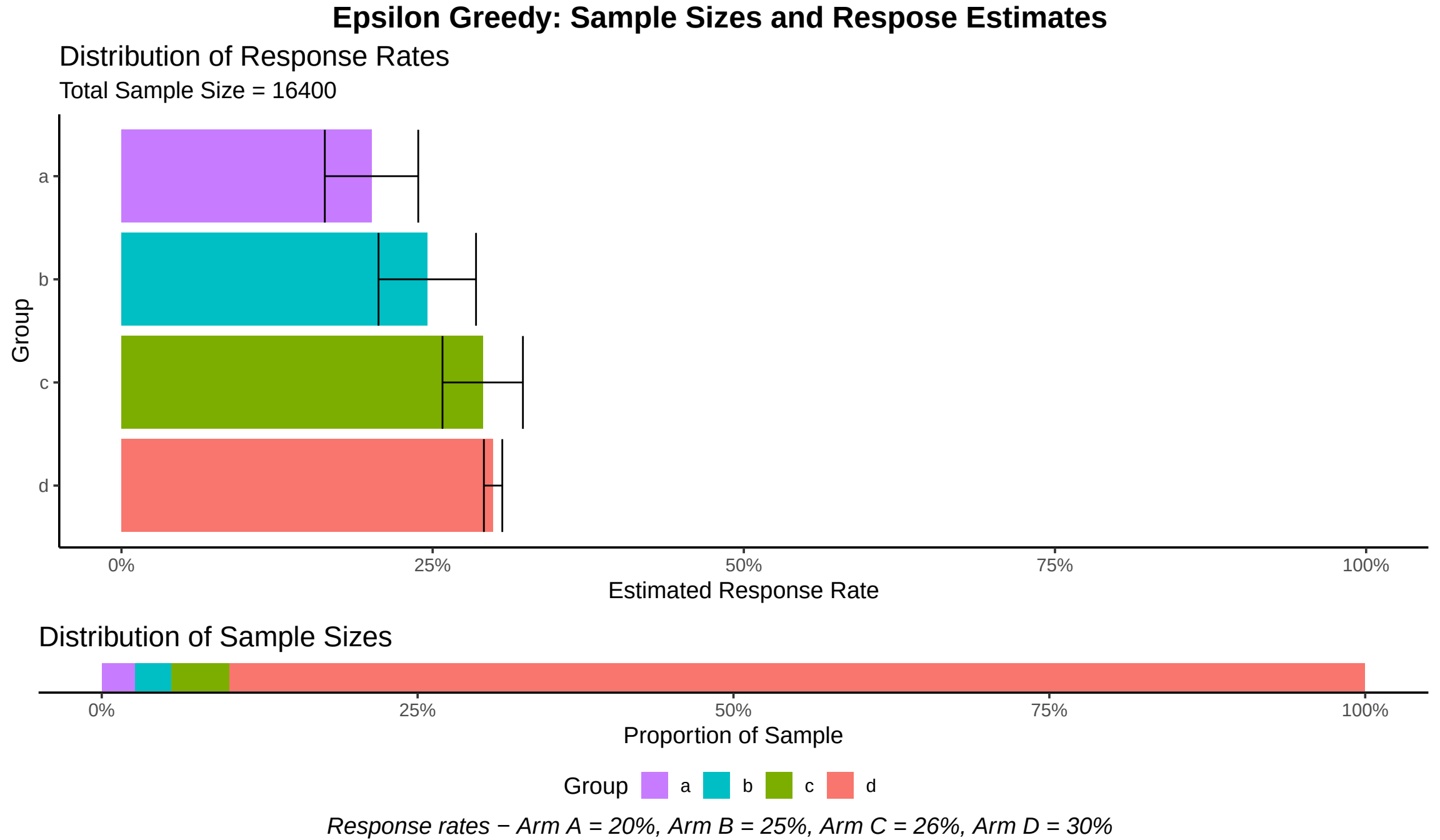


Response rates − Arm A = 20%, Arm B = 25%, Arm C = 26%, Arm D = 30%

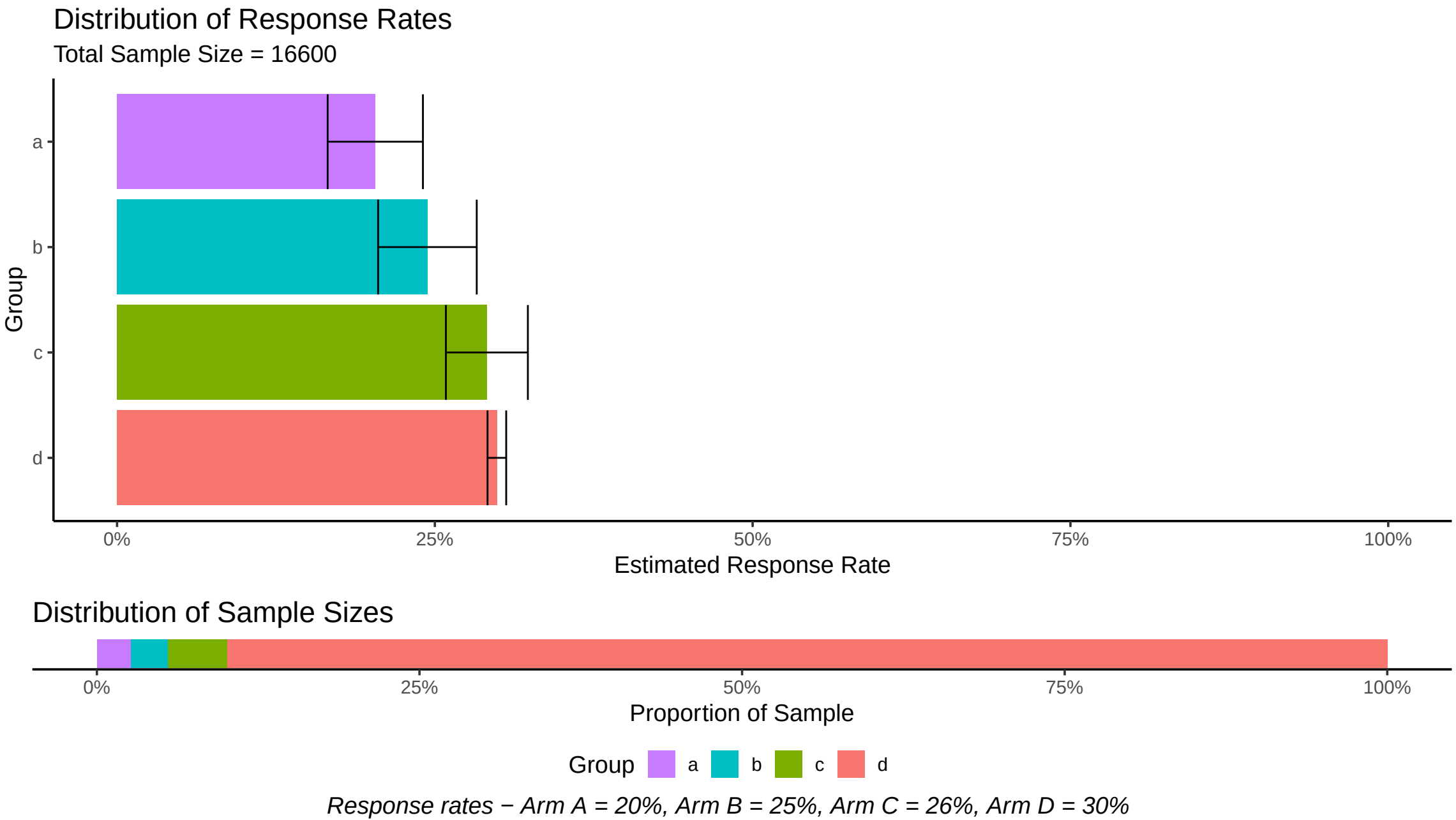
Epsilon Greedy: Sample Sizes and Respose Estimates



Response rates − Arm A = 20%, Arm B = 25%, Arm C = 26%, Arm D = 30%

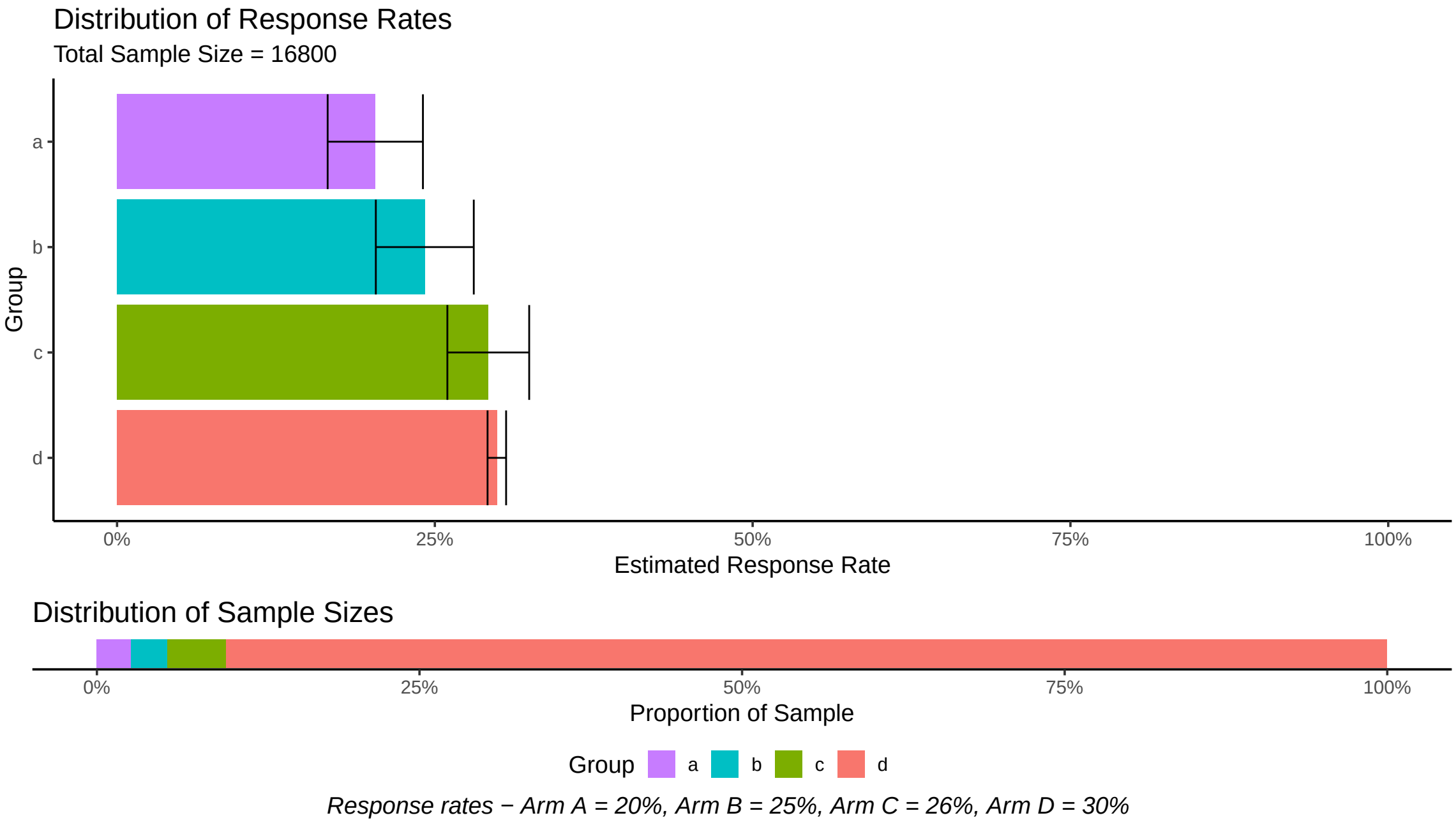

Epsilon Greedy: Sample Sizes and Respose Estimates
Distribution of Response Rates
Total Sample Size = 16400
Group
a
b
c
d
0%
25%
50%
75%
100%
Estimated Response Rate
Distribution of Sample Sizes
0%
25%
50%
75%
100%
Proportion of Sample
Group
a
b
c
d
Response rates − Arm A = 20%, Arm B = 25%, Arm C = 26%, Arm D = 30%

Epsilon Greedy: Sample Sizes and Respose Estimates

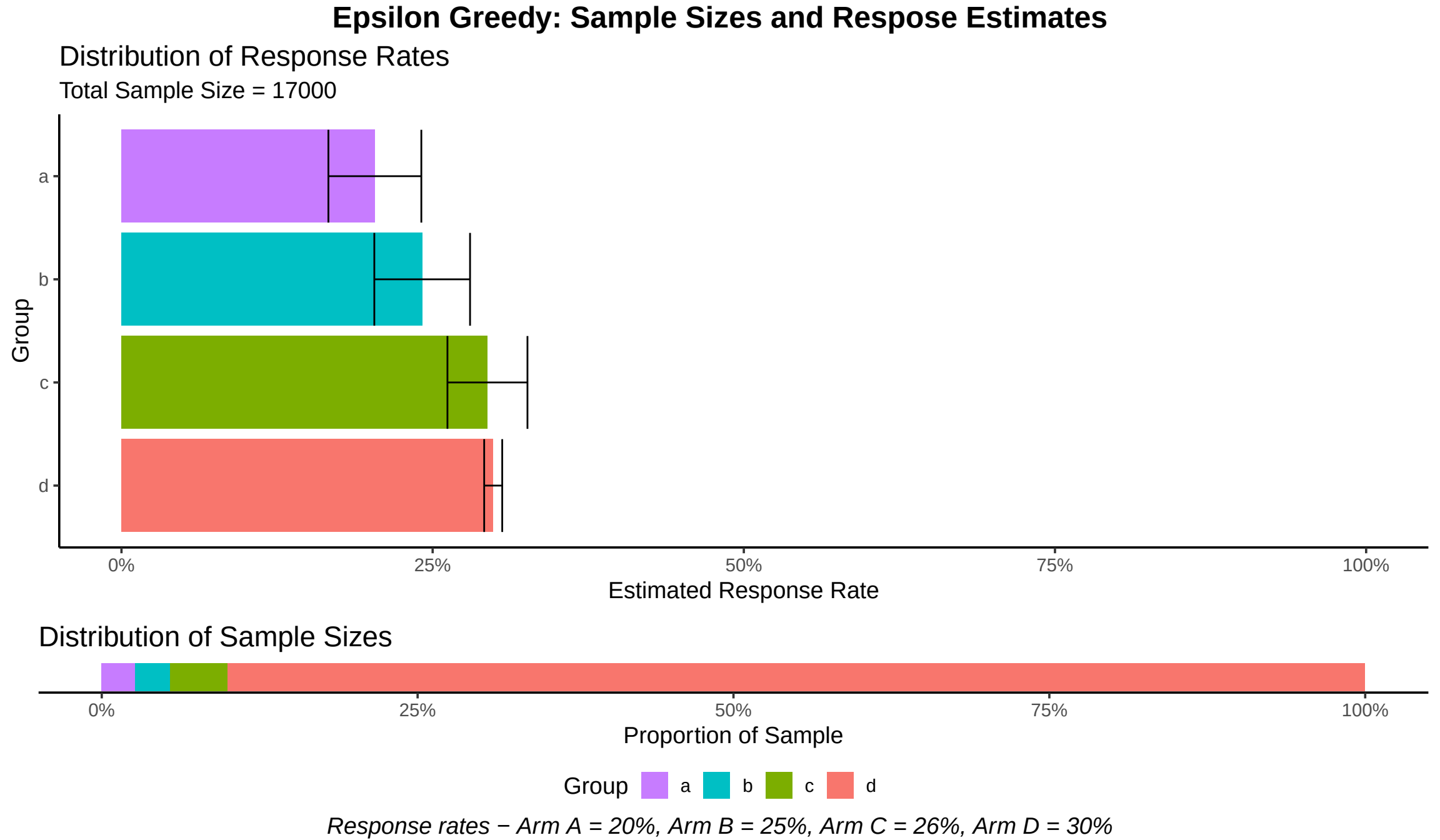


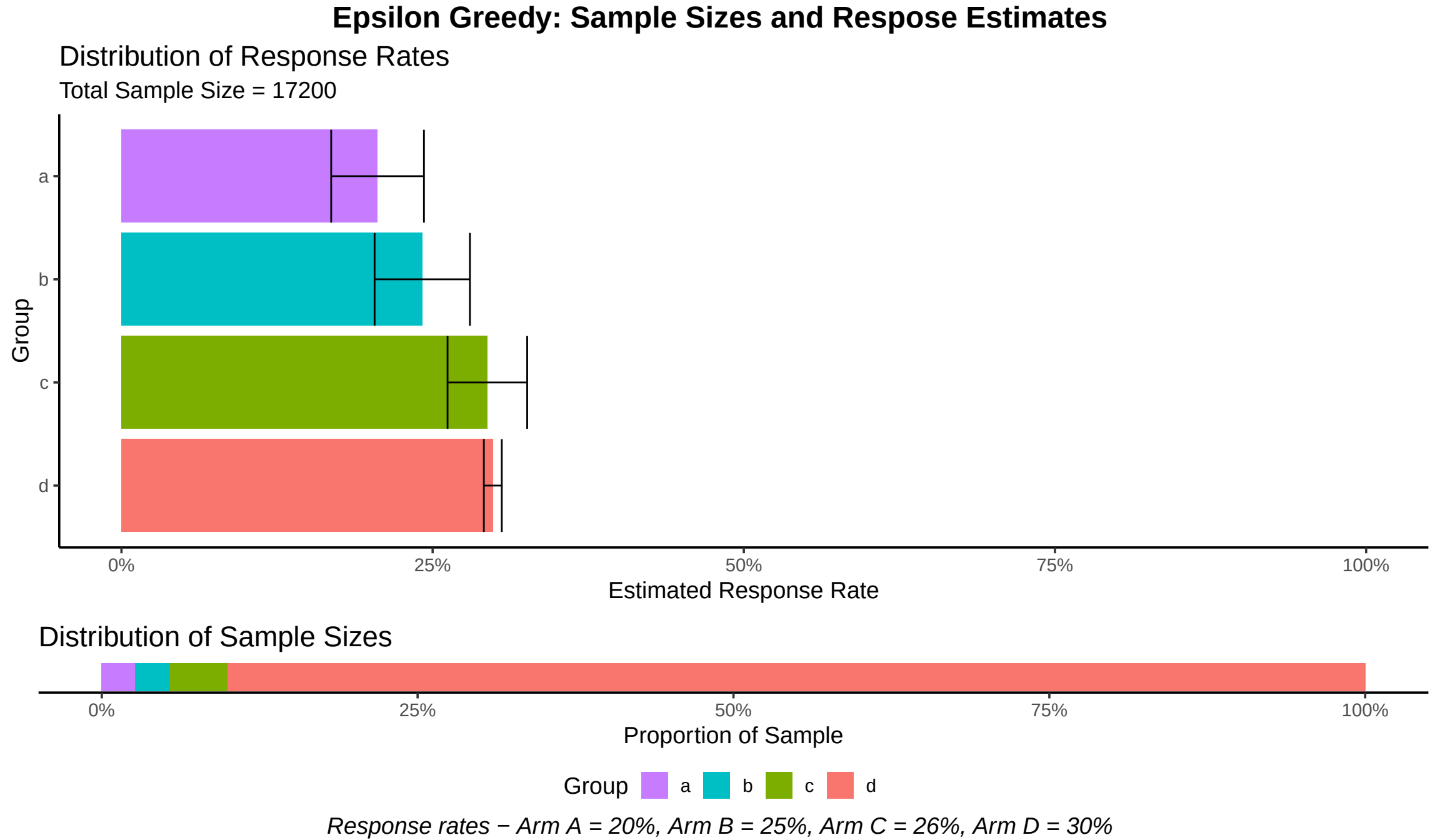
Response rates − Arm A = 20%, Arm B = 25%, Arm C = 26%, Arm D = 30%

Epsilon Greedy: Sample Sizes and Respose Estimates

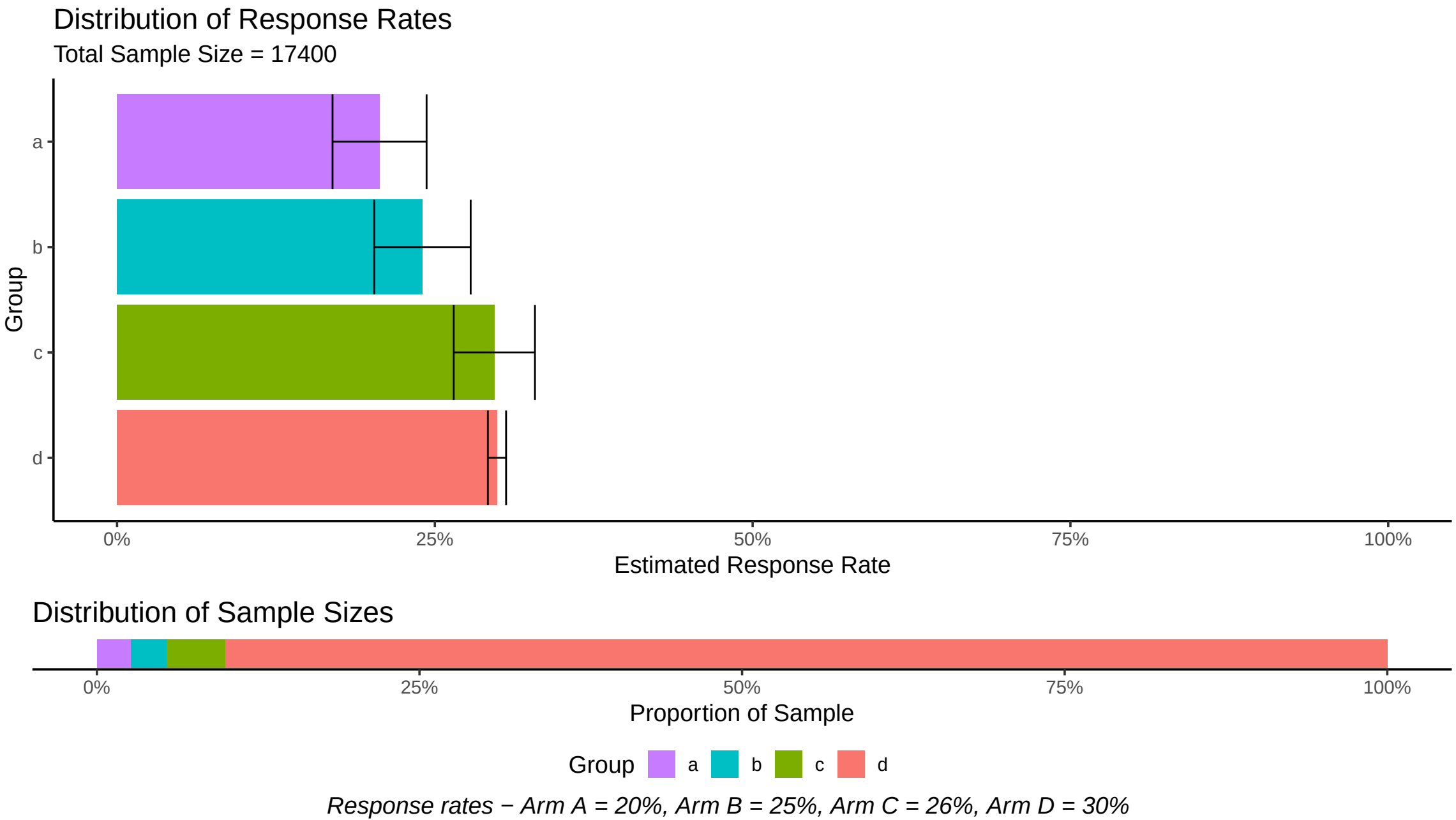


Response rates − Arm A = 20%, Arm B = 25%, Arm C = 26%, Arm D = 30%

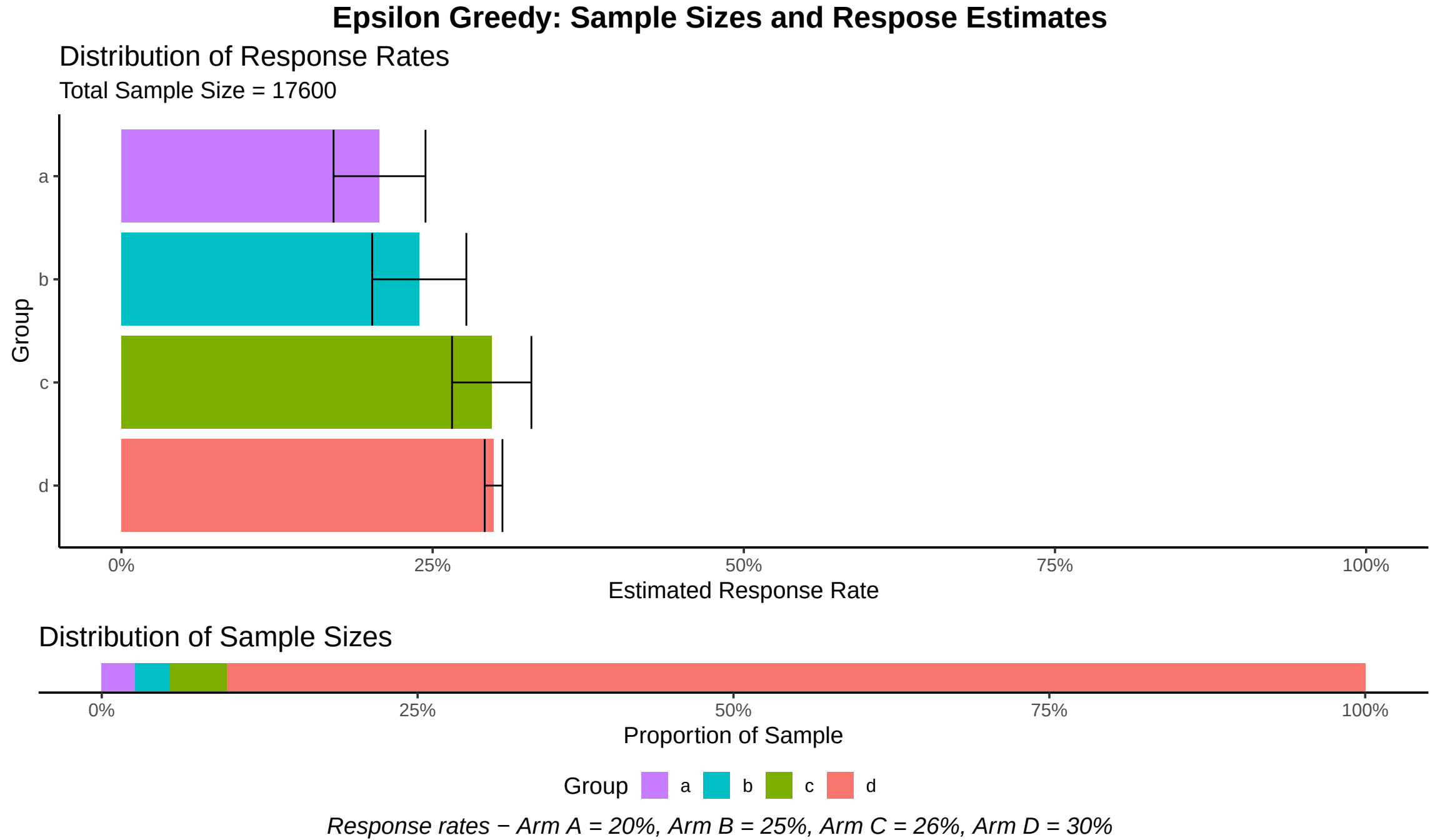

Epsilon Greedy: Sample Sizes and Respose Estimates
Distribution of Response Rates
Total Sample Size = 17000
Group
a
b
c
d
0%
25%
50%
75%
100%
Estimated Response Rate
Distribution of Sample Sizes
0%
25%
50%
75%
100%
Proportion of Sample
Group
a
b
c
d
Response rates − Arm A = 20%, Arm B = 25%, Arm C = 26%, Arm D = 30%

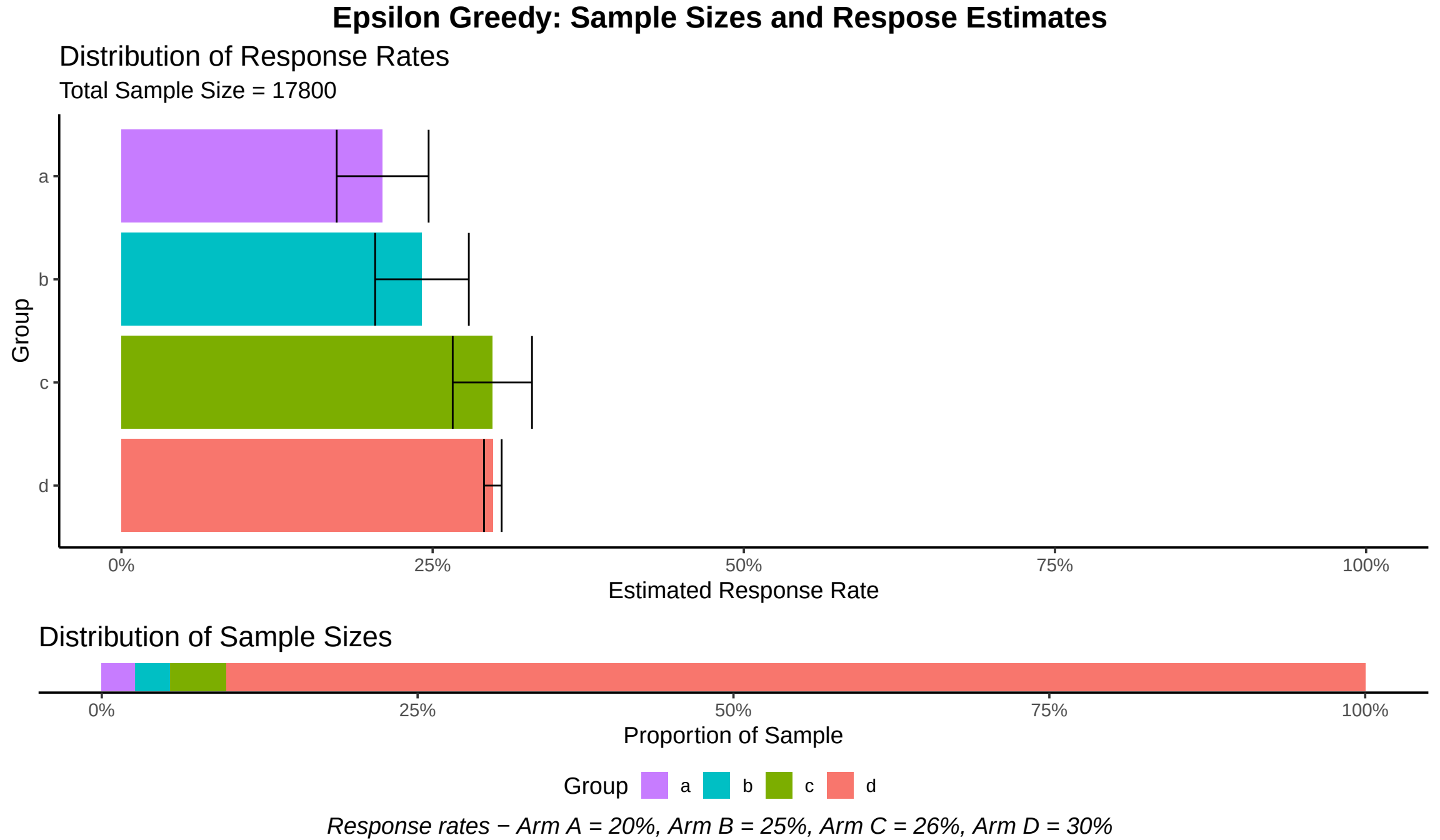

Epsilon Greedy: Sample Sizes and Respose Estimates
Distribution of Response Rates
Total Sample Size = 17200
Group
a
b
c
d
0%
25%
50%
75%
100%
Estimated Response Rate
Distribution of Sample Sizes
0%
25%
50%
75%
100%
Proportion of Sample
Group
a
b
c
d
Response rates − Arm A = 20%, Arm B = 25%, Arm C = 26%, Arm D = 30%

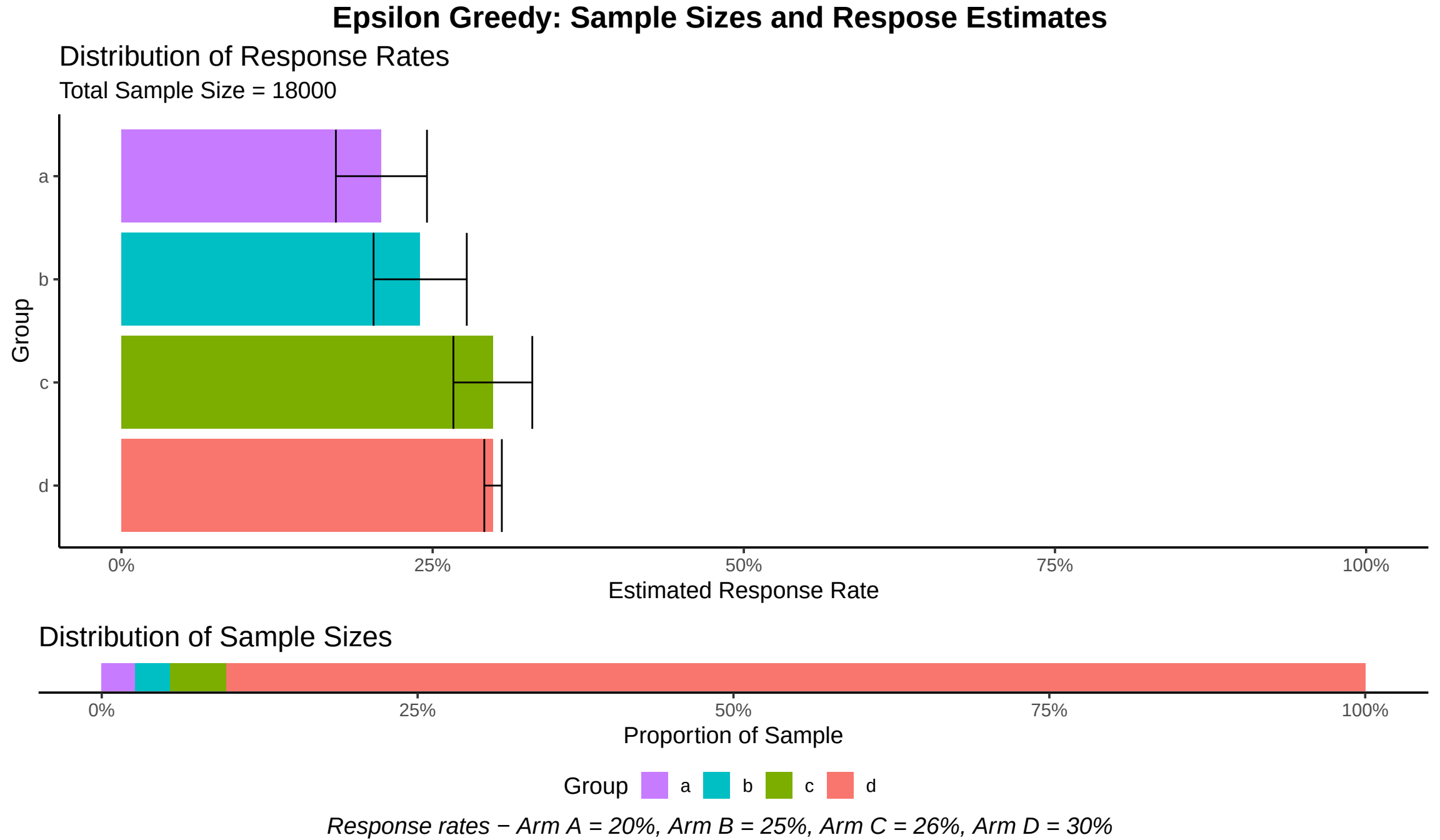
Epsilon Greedy: Sample Sizes and Respose Estimates



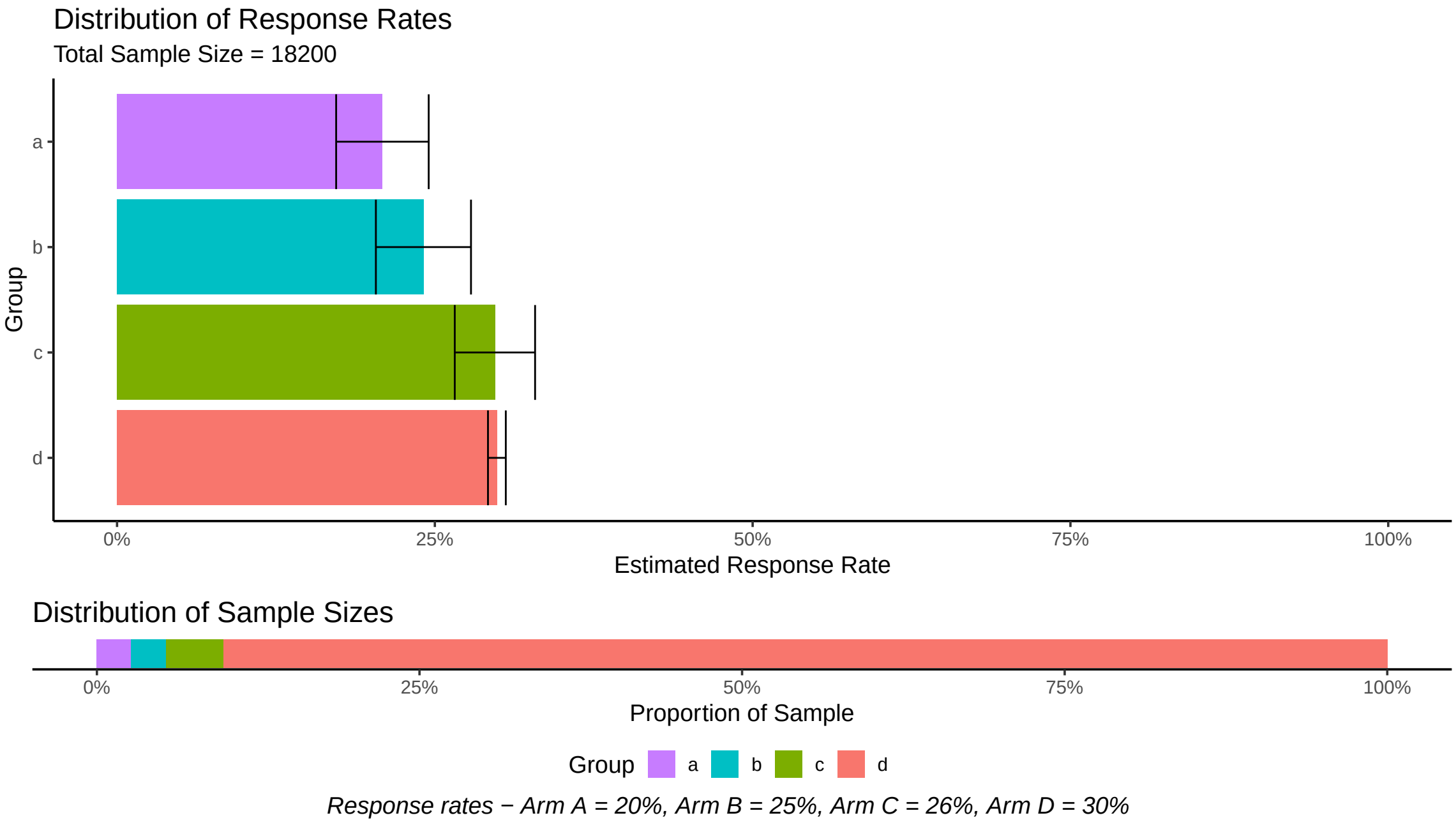
Response rates − Arm A = 20%, Arm B = 25%, Arm C = 26%, Arm D = 30%


Epsilon Greedy: Sample Sizes and Respose Estimates
Distribution of Response Rates
Total Sample Size = 17600
Group
a
b
c
d
0%
25%
50%
75%
100%
Estimated Response Rate
Distribution of Sample Sizes
0%
25%
50%
75%
100%
Proportion of Sample
Group
a
b
c
d
Response rates − Arm A = 20%, Arm B = 25%, Arm C = 26%, Arm D = 30%

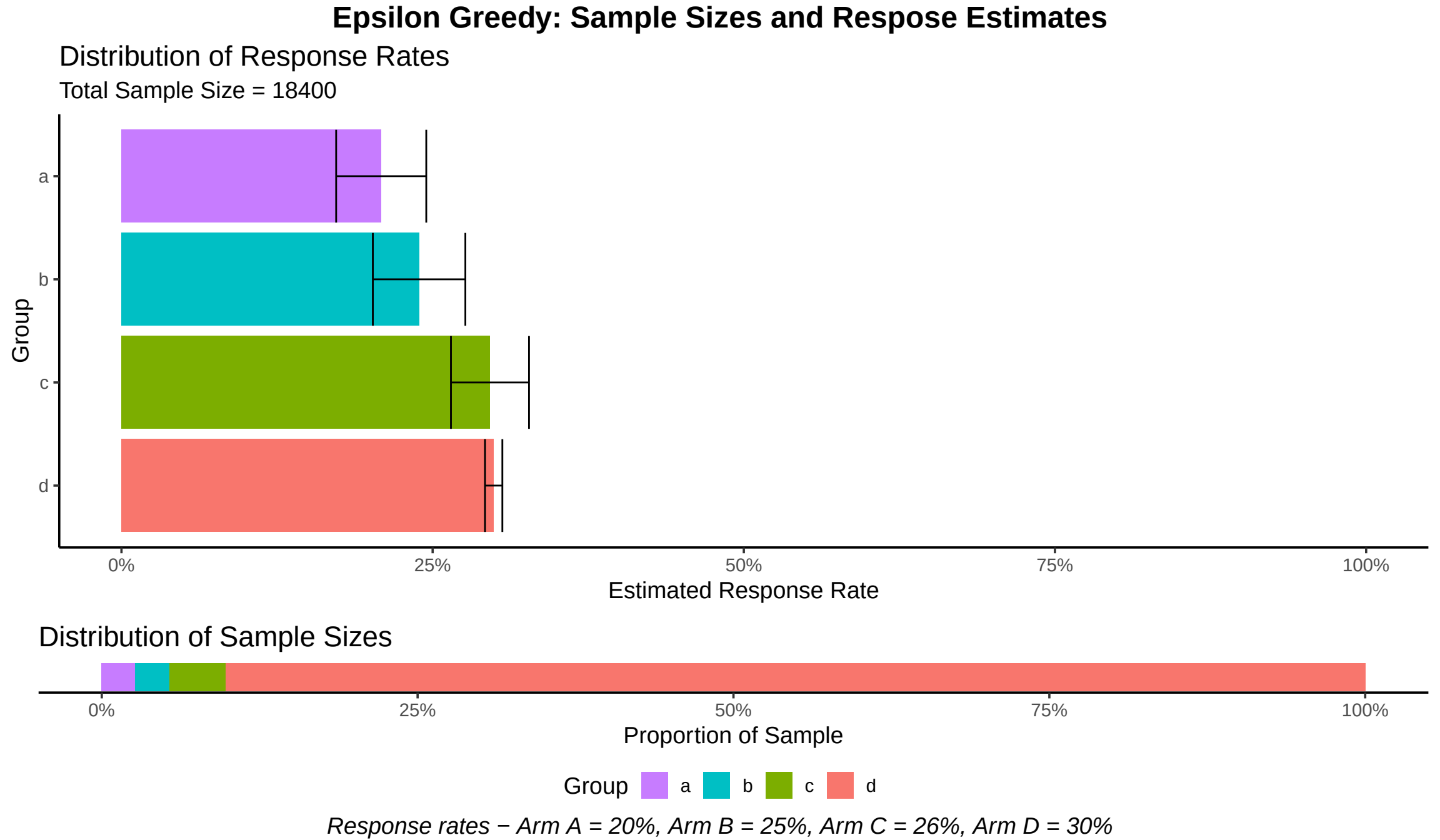

Epsilon Greedy: Sample Sizes and Respose Estimates
Distribution of Response Rates
Total Sample Size = 17800
Group
a
b
c
d
0%
25%
50%
75%
100%
Estimated Response Rate
Distribution of Sample Sizes
0%
25%
50%
75%
100%
Proportion of Sample
Group
a
b
c
d
Response rates − Arm A = 20%, Arm B = 25%, Arm C = 26%, Arm D = 30%


Epsilon Greedy: Sample Sizes and Respose Estimates
Distribution of Response Rates
Total Sample Size = 18000
Group
a
b
c
d
0%
25%
50%
75%
100%
Estimated Response Rate
Distribution of Sample Sizes
0%
25%
50%
75%
100%
Proportion of Sample
Group
a
b
c
d
Response rates − Arm A = 20%, Arm B = 25%, Arm C = 26%, Arm D = 30%

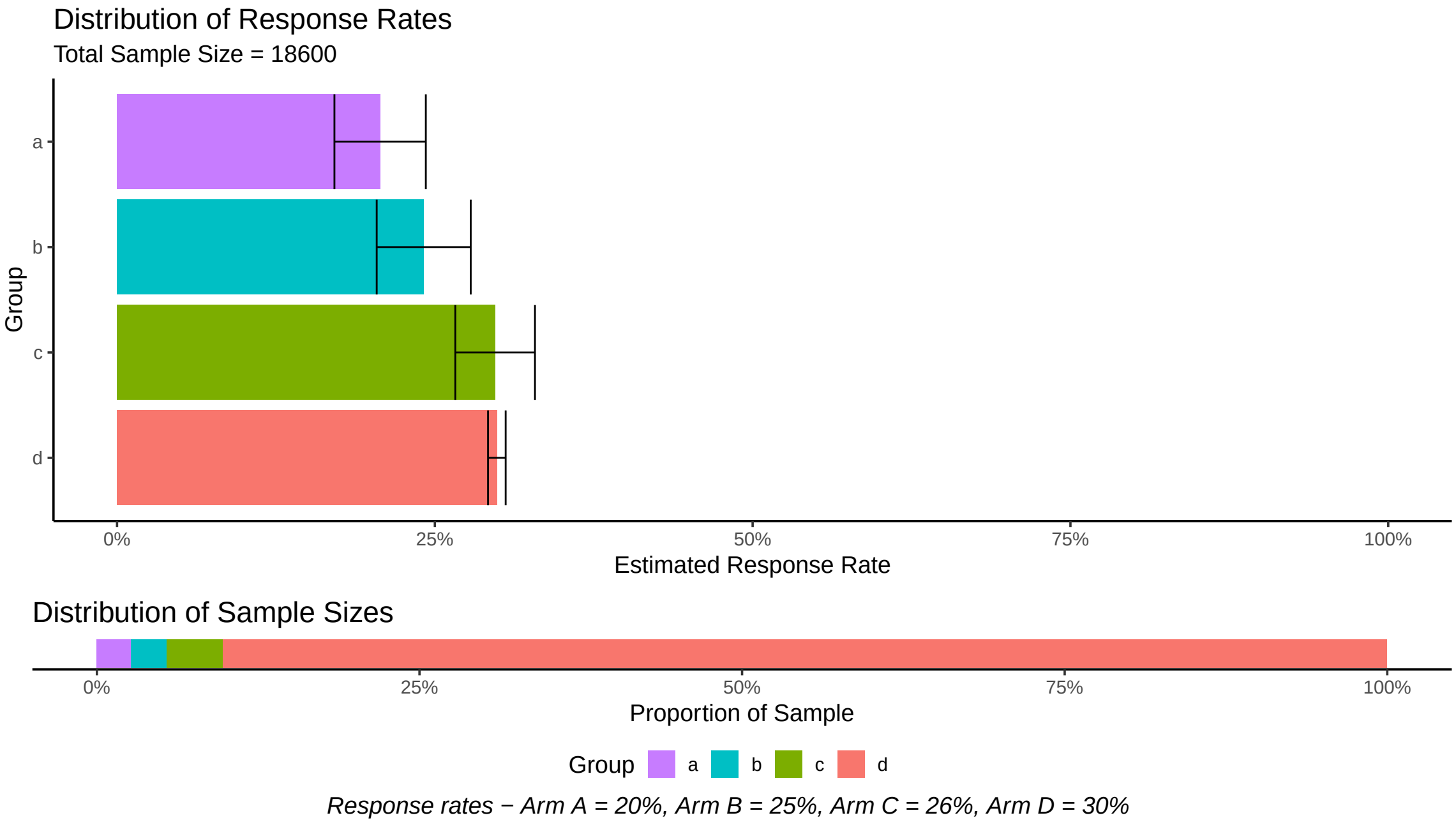
Epsilon Greedy: Sample Sizes and Respose Estimates



Response rates − Arm A = 20%, Arm B = 25%, Arm C = 26%, Arm D = 30%

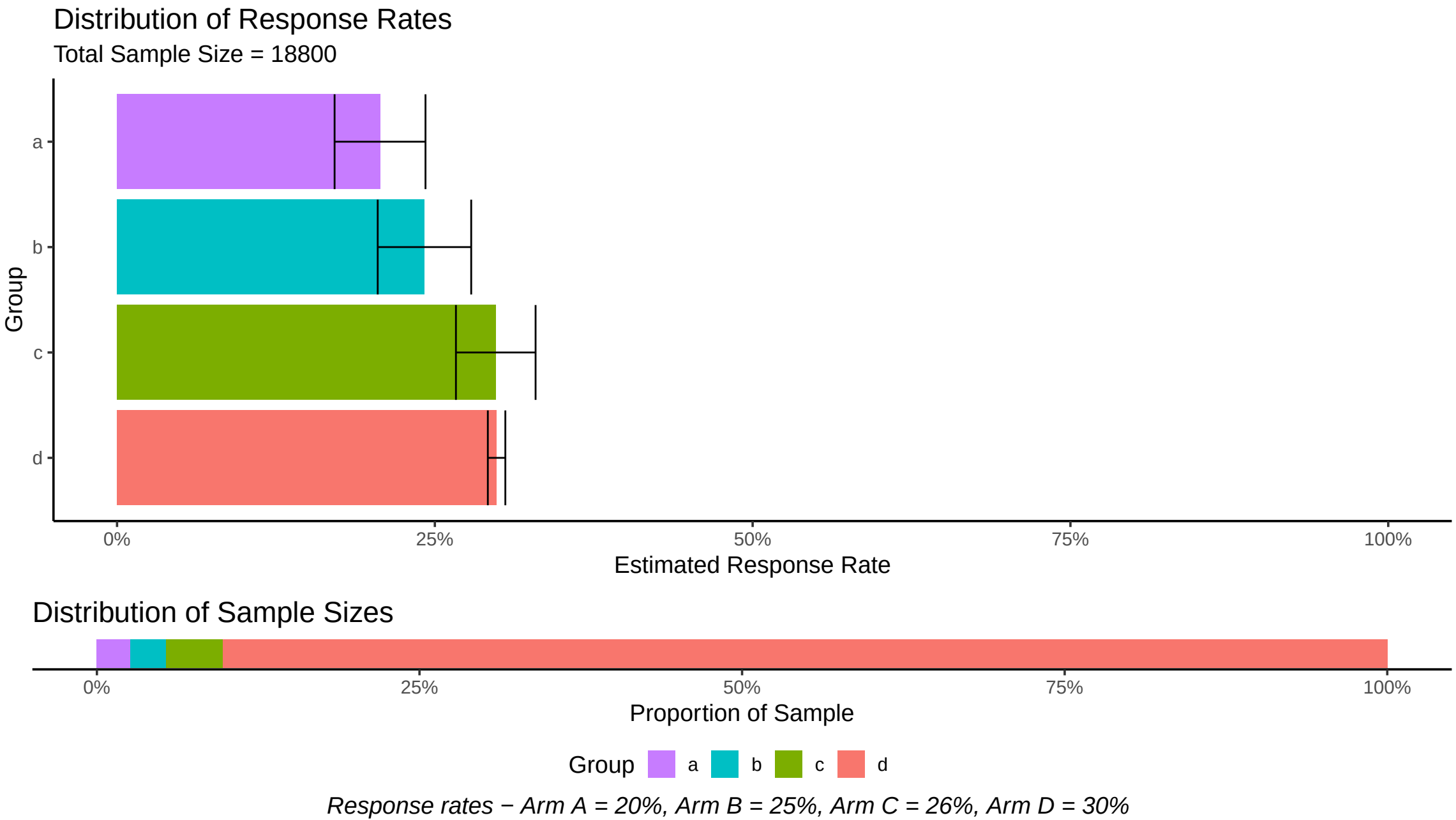

Epsilon Greedy: Sample Sizes and Respose Estimates
Distribution of Response Rates
Total Sample Size = 18400
Group
a
b
c
d
0%
25%
50%
75%
100%
Estimated Response Rate
Distribution of Sample Sizes
0%
25%
50%
75%
100%
Proportion of Sample
Group
a
b
c
d
Response rates − Arm A = 20%, Arm B = 25%, Arm C = 26%, Arm D = 30%

Epsilon Greedy: Sample Sizes and Respose Estimates

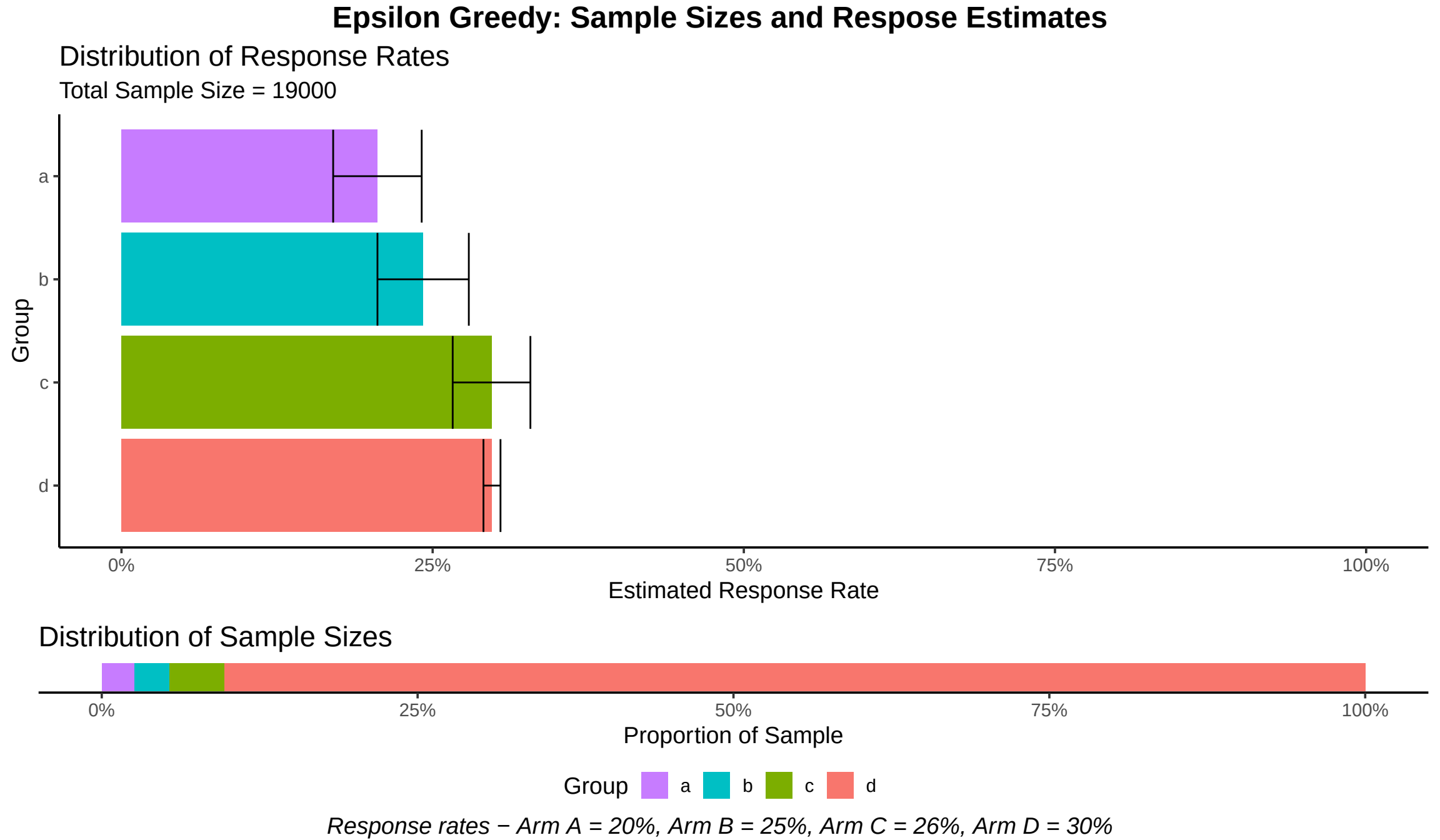


Response rates − Arm A = 20%, Arm B = 25%, Arm C = 26%, Arm D = 30%

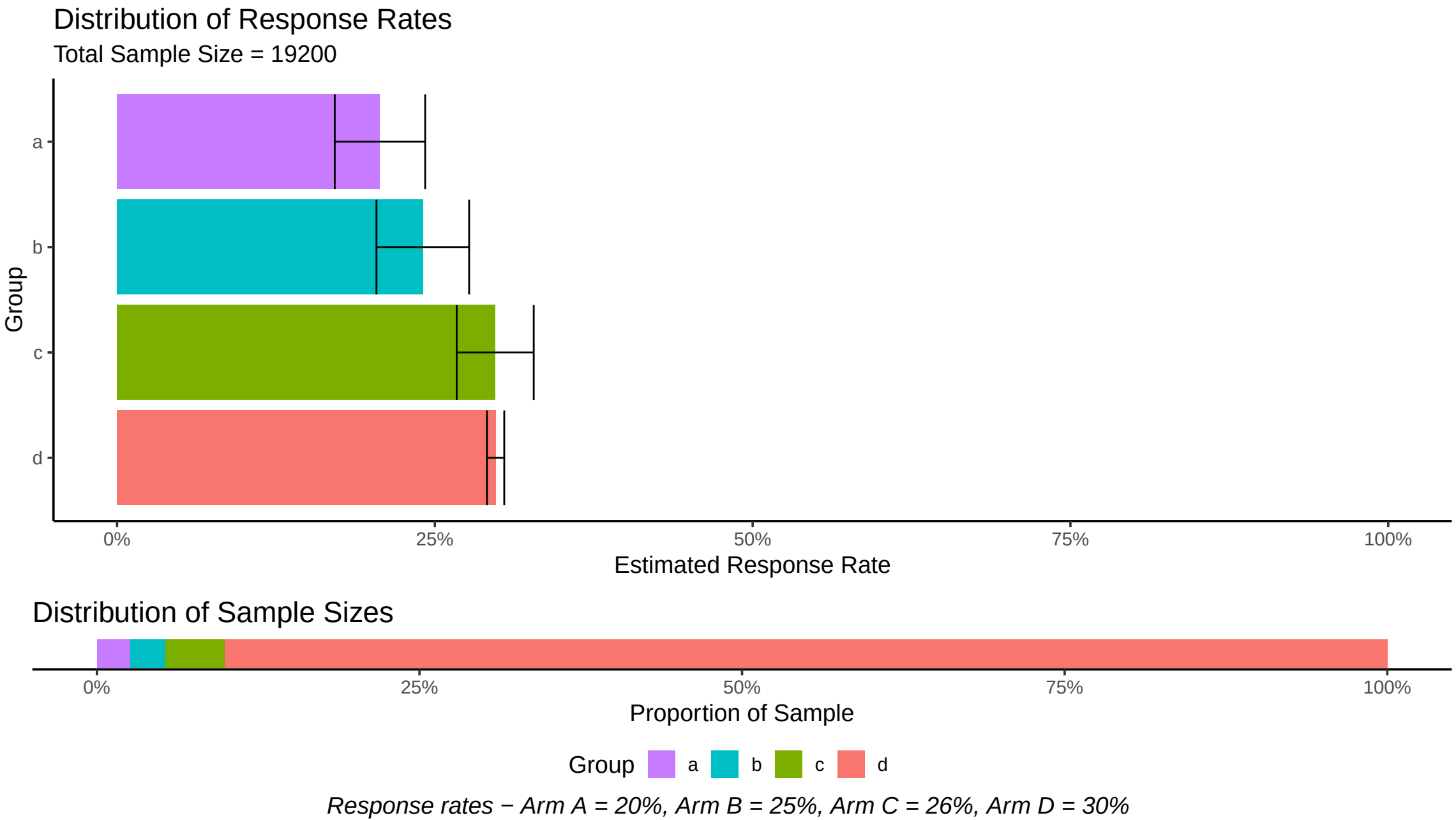
Epsilon Greedy: Sample Sizes and Respose Estimates



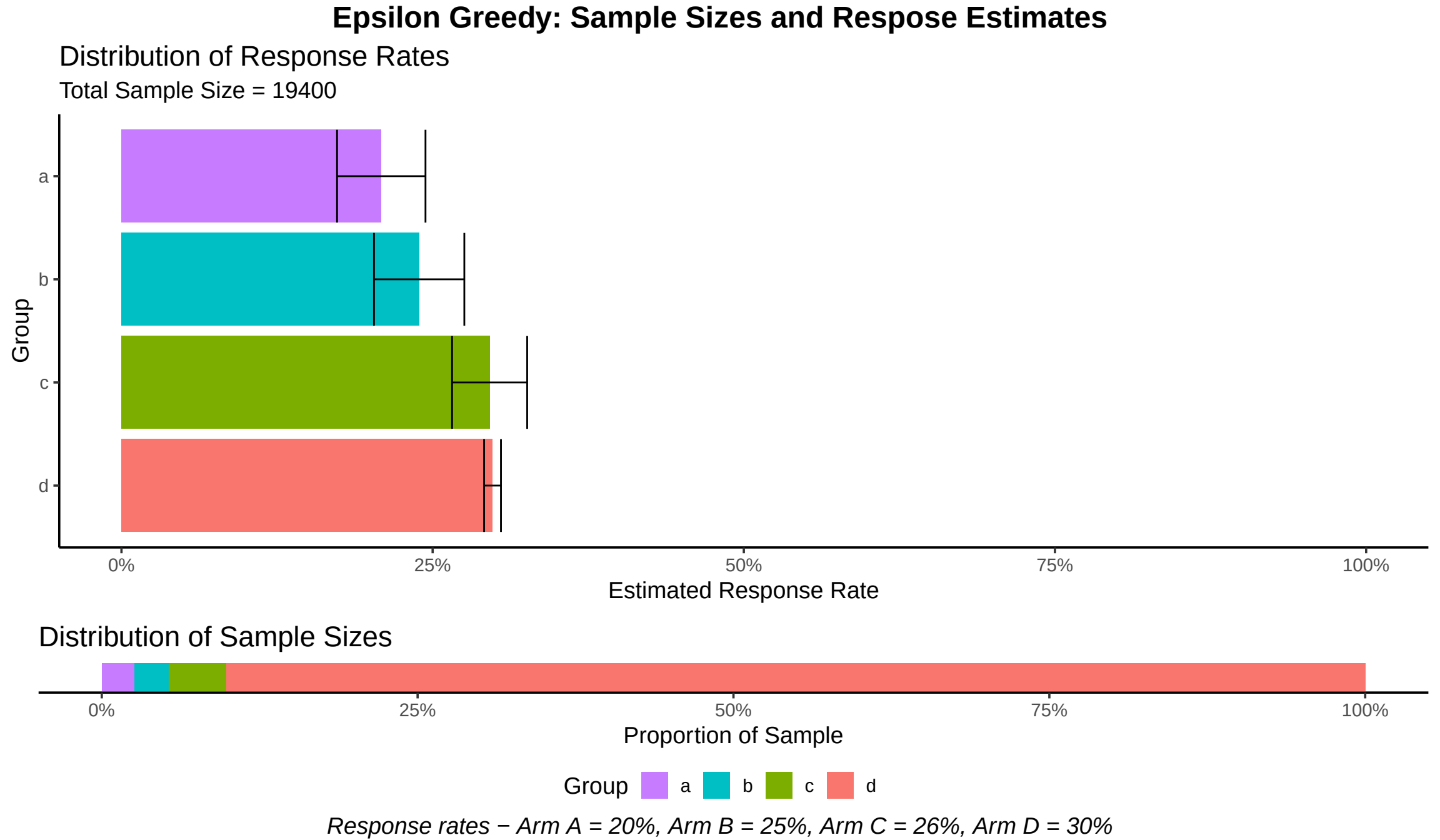
Response rates − Arm A = 20%, Arm B = 25%, Arm C = 26%, Arm D = 30%


Epsilon Greedy: Sample Sizes and Respose Estimates
Distribution of Response Rates
Total Sample Size = 19000
Group
a
b
c
d
0%
25%
50%
75%
100%
Estimated Response Rate
Distribution of Sample Sizes
0%
25%
50%
75%
100%
Proportion of Sample
Group
a
b
c
d
Response rates − Arm A = 20%, Arm B = 25%, Arm C = 26%, Arm D = 30%

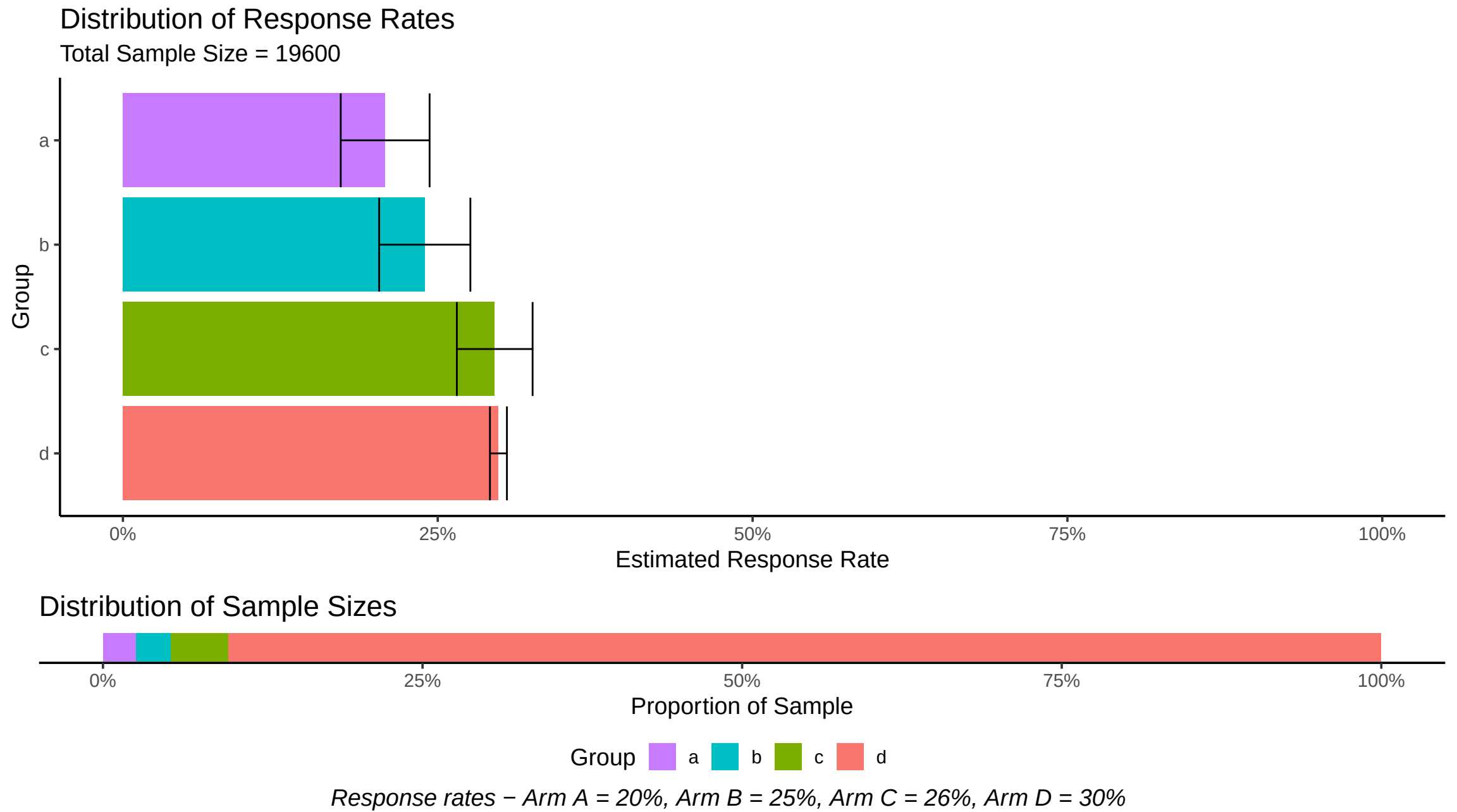
Epsilon Greedy: Sample Sizes and Respose Estimates



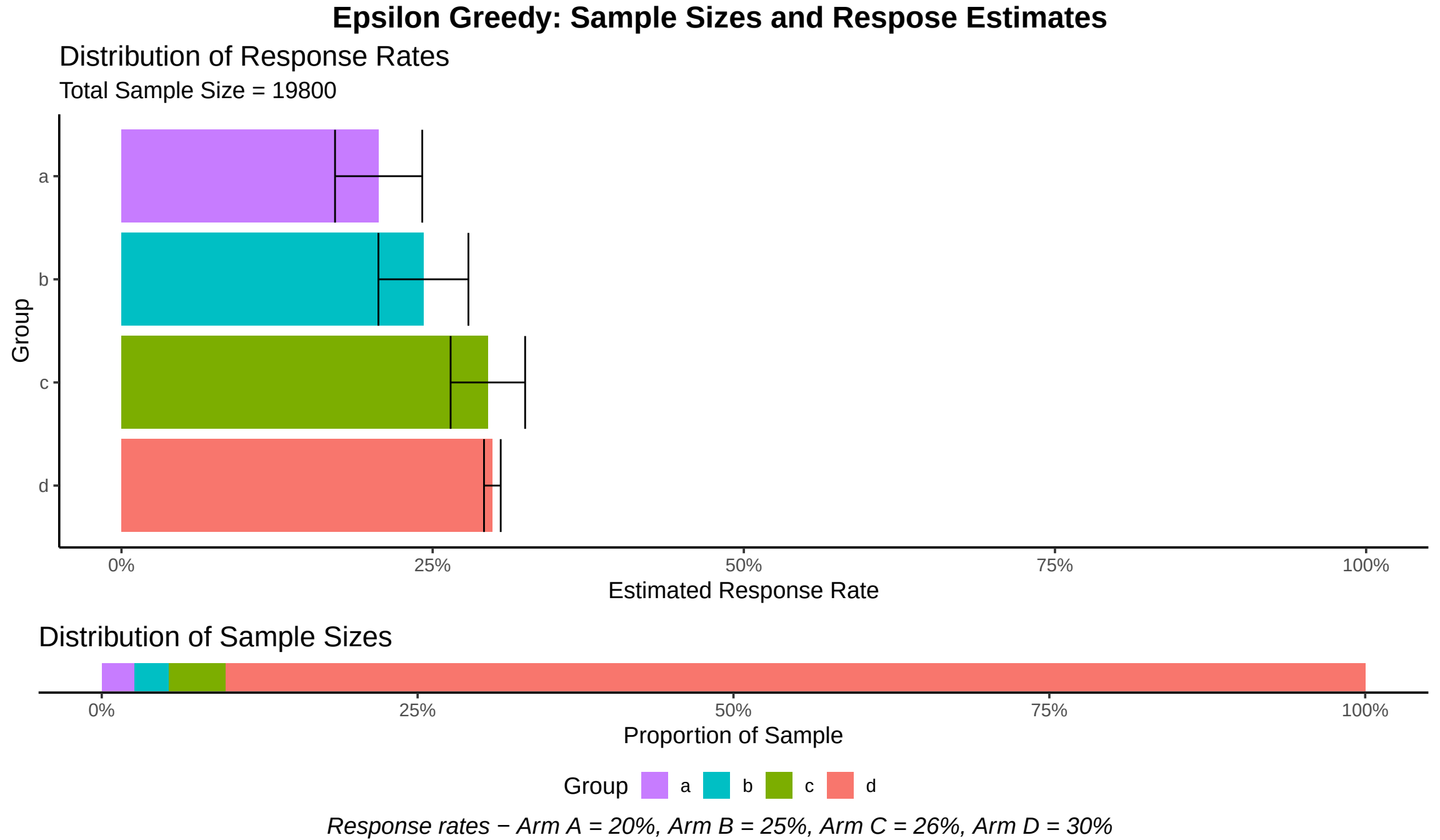
Response rates − Arm A = 20%, Arm B = 25%, Arm C = 26%, Arm D = 30%

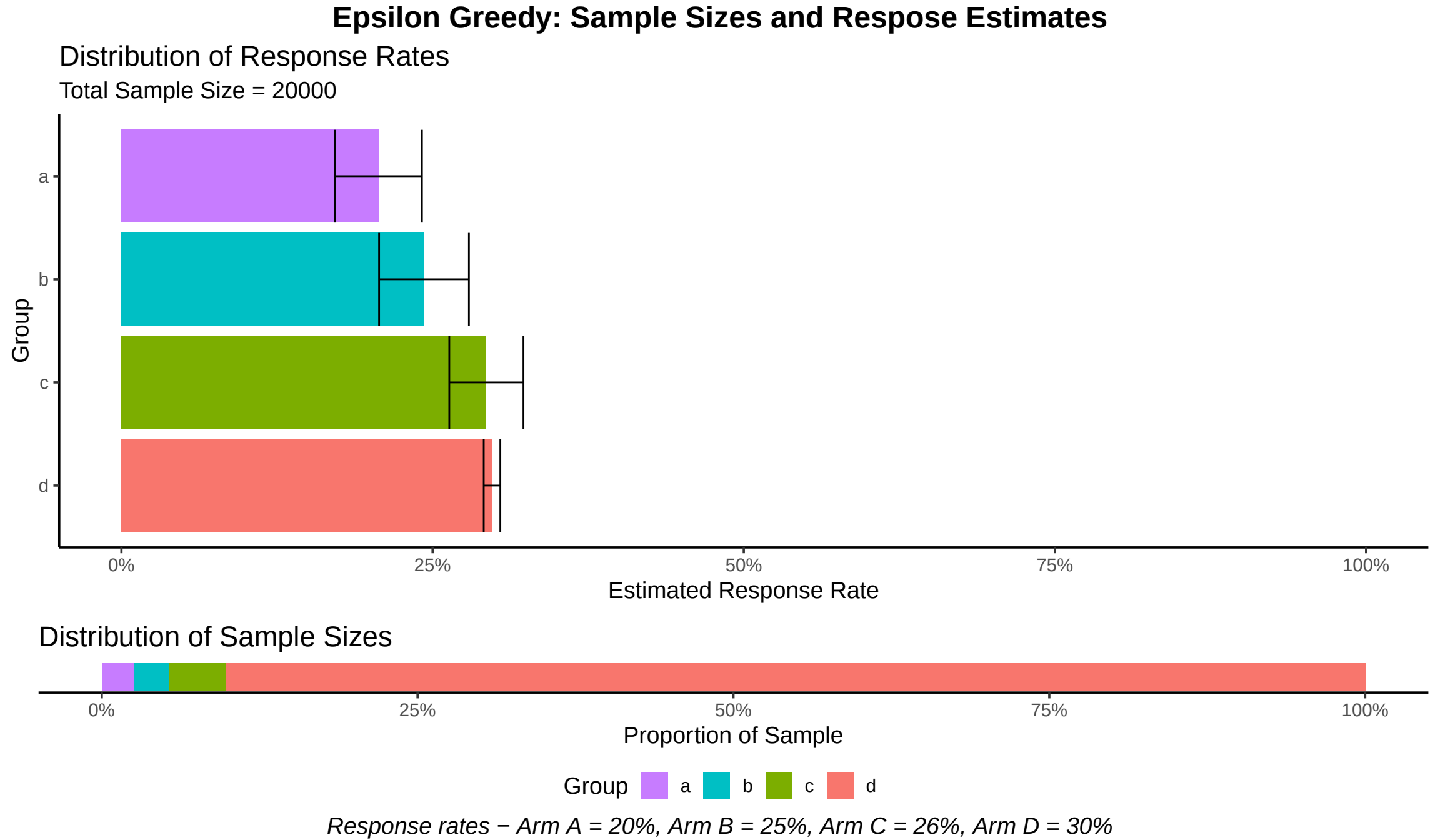

Epsilon Greedy: Sample Sizes and Respose Estimates
Distribution of Response Rates
Total Sample Size = 19400
Group
a
b
c
d
0%
25%
50%
75%
100%
Estimated Response Rate
Distribution of Sample Sizes
0%
25%
50%
75%
100%
Proportion of Sample
Group
a
b
c
d
Response rates − Arm A = 20%, Arm B = 25%, Arm C = 26%, Arm D = 30%

Epsilon Greedy: Sample Sizes and Respose Estimates



Response rates − Arm A = 20%, Arm B = 25%, Arm C = 26%, Arm D = 30%


Epsilon Greedy: Sample Sizes and Respose Estimates
Distribution of Response Rates
Total Sample Size = 19800
Group
a
b
c
d
0%
25%
50%
75%
100%
Estimated Response Rate
Distribution of Sample Sizes
0%
25%
50%
75%
100%
Proportion of Sample
Group
a
b
c
d
Response rates − Arm A = 20%, Arm B = 25%, Arm C = 26%, Arm D = 30%


Epsilon Greedy: Sample Sizes and Respose Estimates
Distribution of Response Rates
Total Sample Size = 20000
Group
a
b
c
d
0%
25%
50%
75%
100%
Estimated Response Rate
Distribution of Sample Sizes
0%
25%
50%
75%
100%
Proportion of Sample
Group
a
b
c
d
Response rates − Arm A = 20%, Arm B = 25%, Arm C = 26%, Arm D = 30%