

Input parameters (black lines)

model

ZD Mutation Sampler

bias

0.5

input joint distr

X1	Y	X2	p
1	1	1	0.09765625
1	1	0	0.05859375
1	0	1	0.0234375
1	0	0	0.0703125
0	1	1	0.1171875
0	1	0	0.0703125
0	0	1	0.140625
0	0	0	0.421875

causal strengths

X1	Y	X2
0	0.5	0
0	0	0.5
0	0	0

baserates 0.25 0.25 0.25

mean sim joint distr

nChains

10000

X1	Y	X2	p
1	1	1	0.147876923075515
1	1	0	0.0592923076963512
1	0	1	0.0239384615446807
1	0	0	0.0616769230808199
0	1	1	0.11971538461571
0	1	0	0.0641076923114395
0	0	1	0.122576923077072
0	0	0	0.400815384598411

betavar

0

meanChainlen

13

Input parameters (red lines)

input joint distr

model

IK BayesianMS

X1	Y	X2	p
1	1	1	0.09765625
1	1	0	0.05859375
1	0	1	0.0234375
1	0	0	0.0703125
0	1	1	0.1171875
0	1	0	0.0703125
0	0	1	0.140625
0	0	0	0.421875

causal strengths

X1	Y	X2
0	0.5	0
0	0	0.5
0	0	0

bias

0.5

baserates 0.25 0.25 0.25

mean sim joint distr

nChains

10000

state	X1	Y	X2	p
1	1	1	1	0.14777692
2	1	1	0	0.05993846
3	1	0	1	0.02432308
4	1	0	0	0.06381538
5	0	1	1	0.11762308
6	0	1	0	0.06343077
7	0	0	1	0.12037692
8	0	0	0	0.40271538

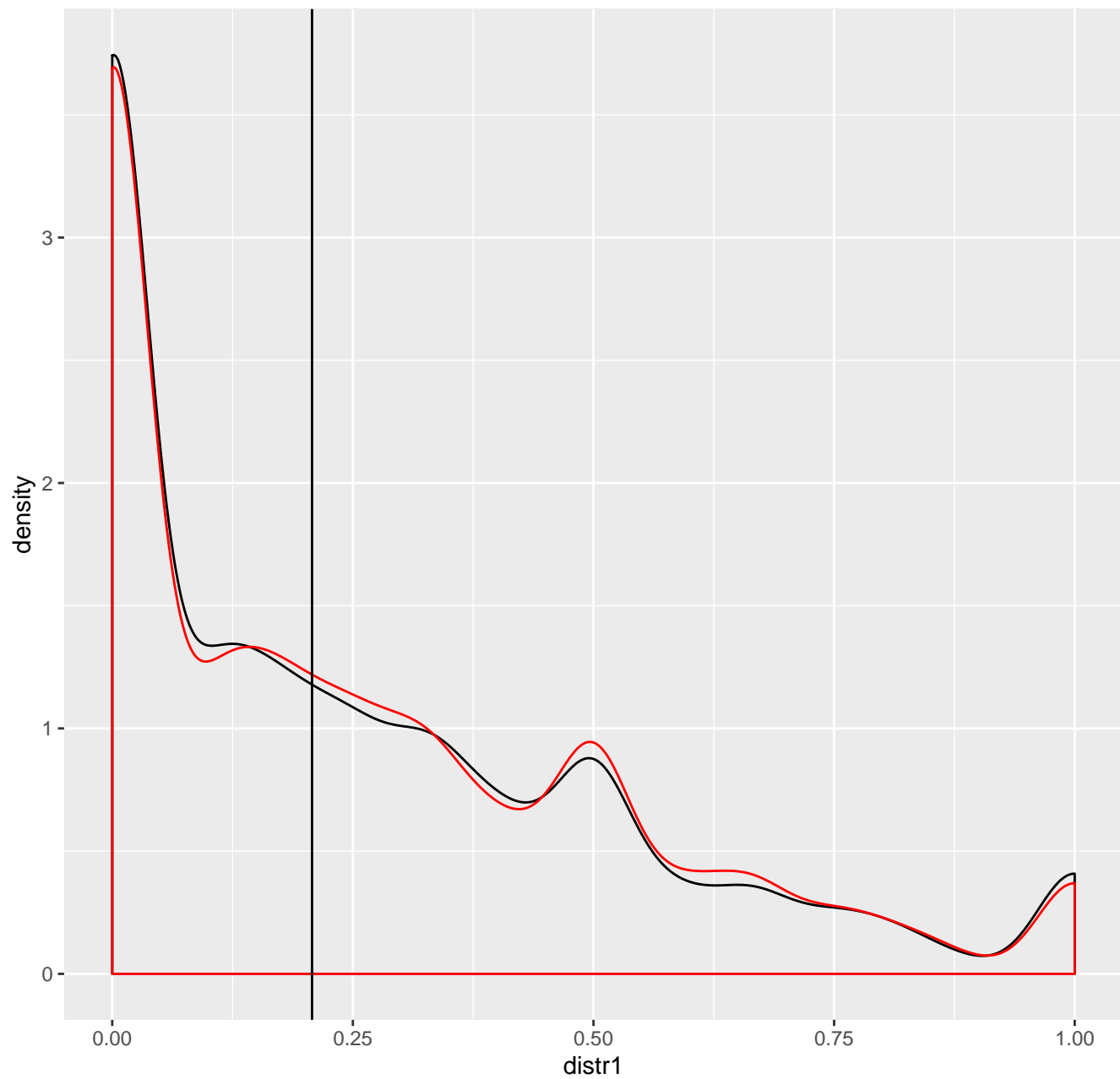
betavar

0

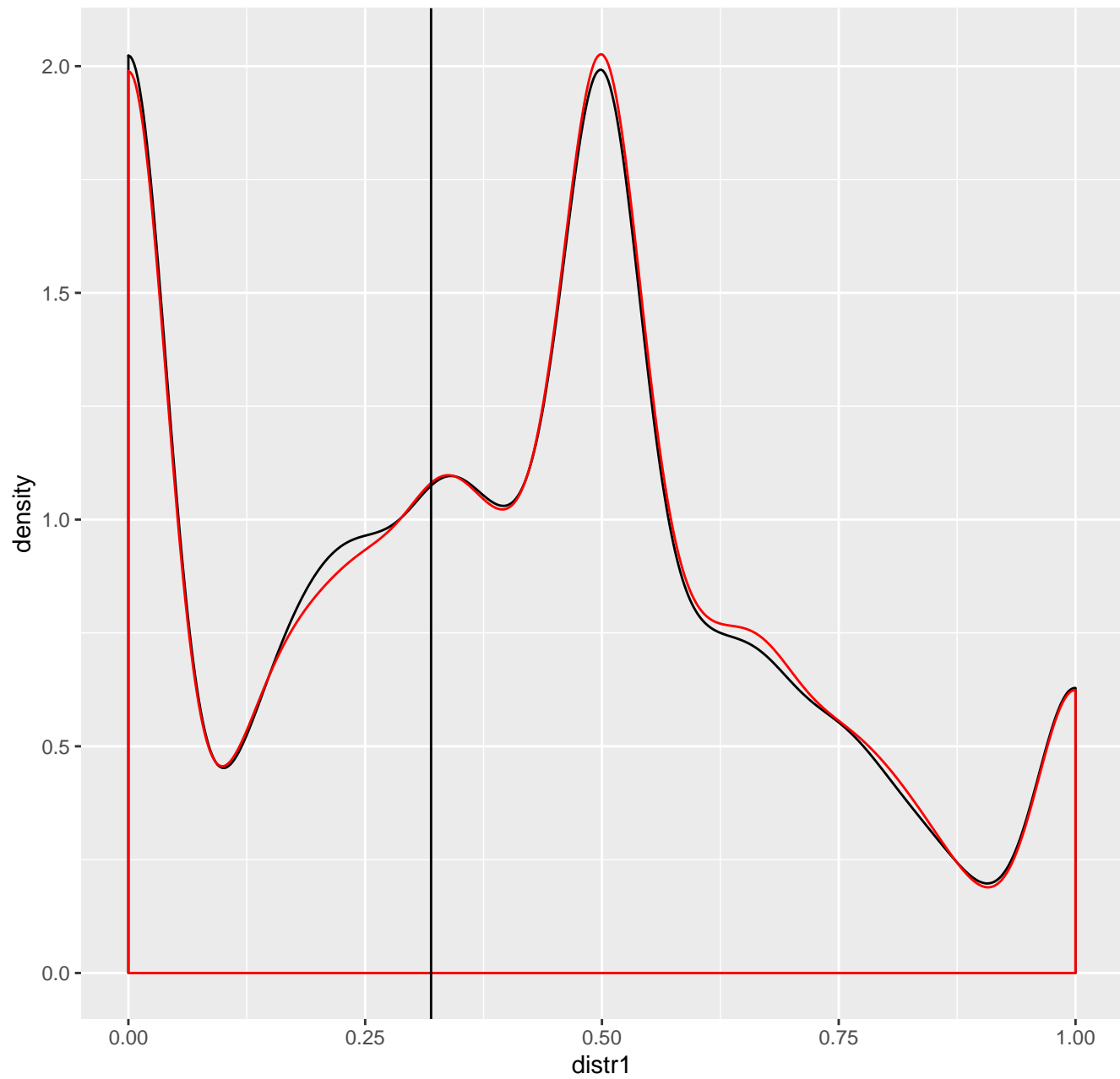
meanChainlen

13

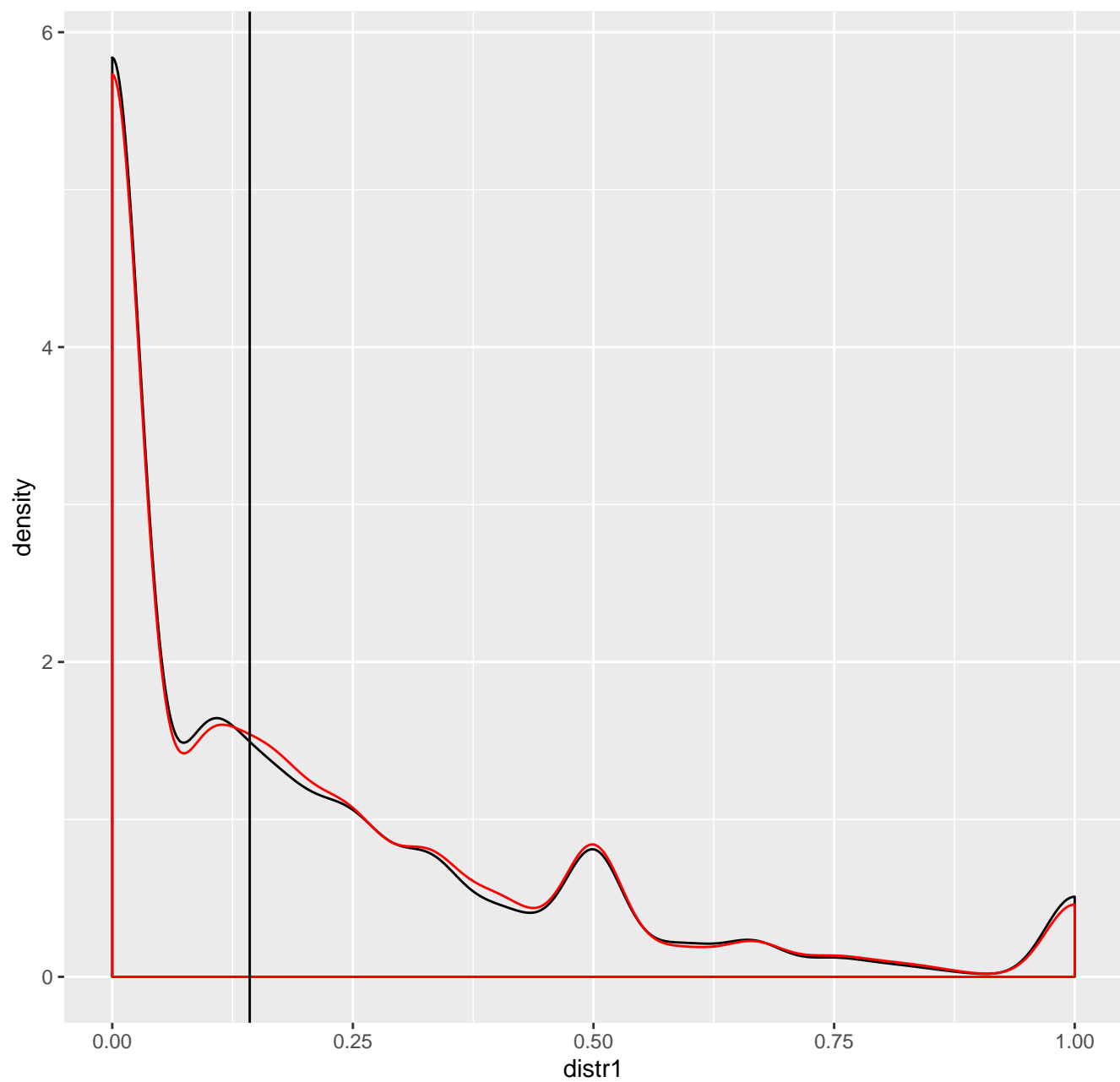
response distribution  $X_1|X_2==0$



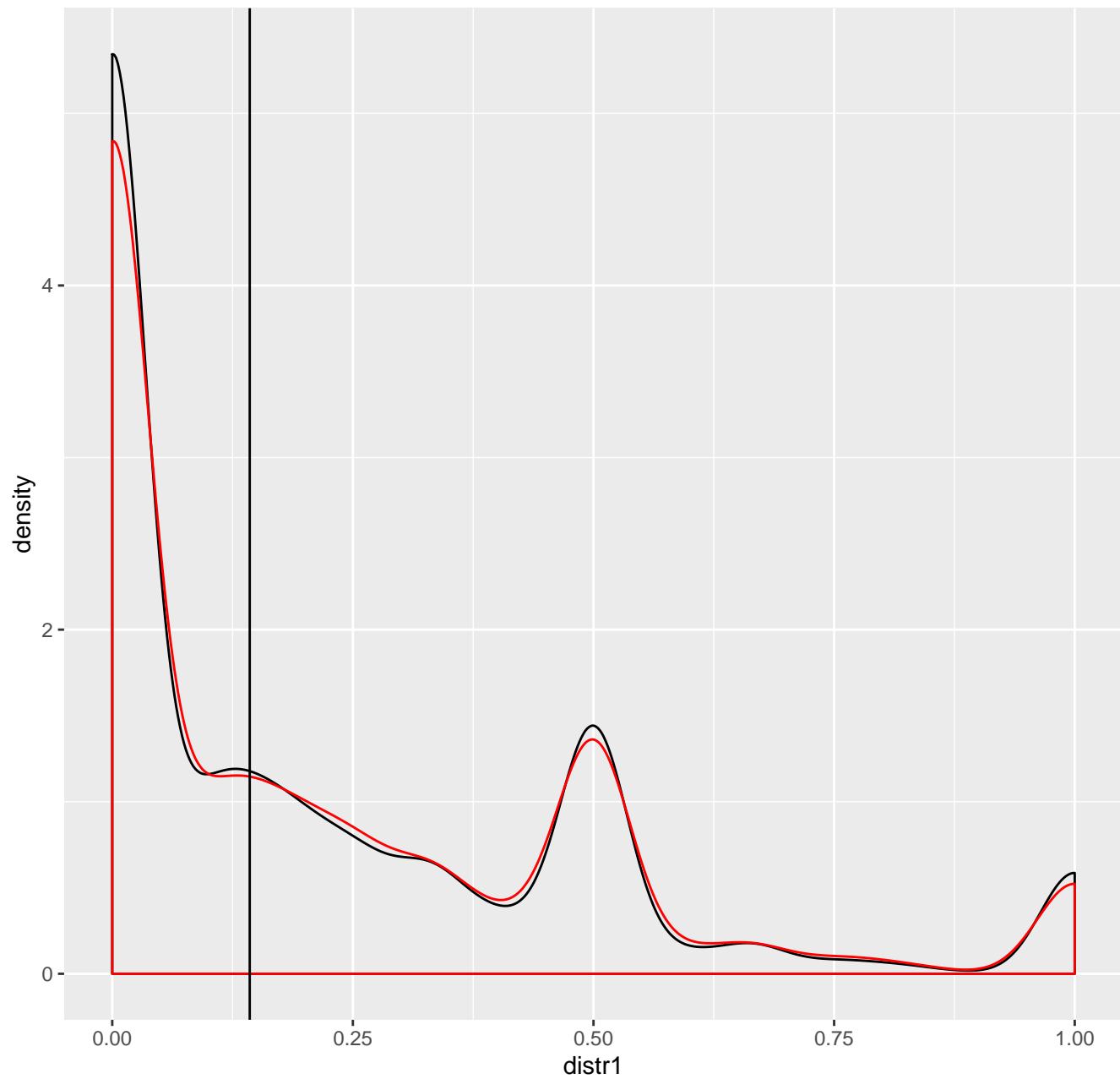
response distribution  $X_1|X_2=1$



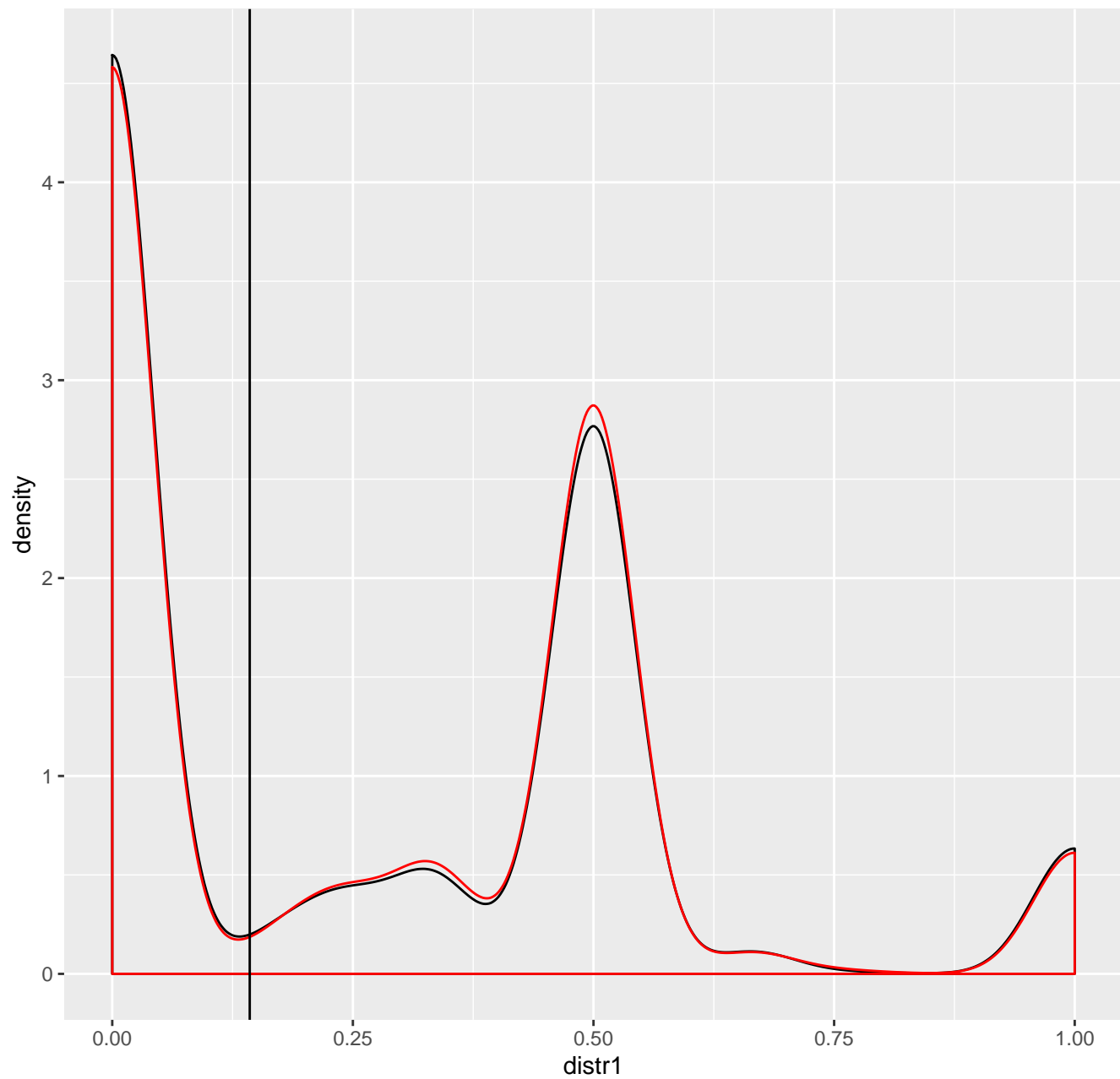
response distribution  $X_1|Y==0$



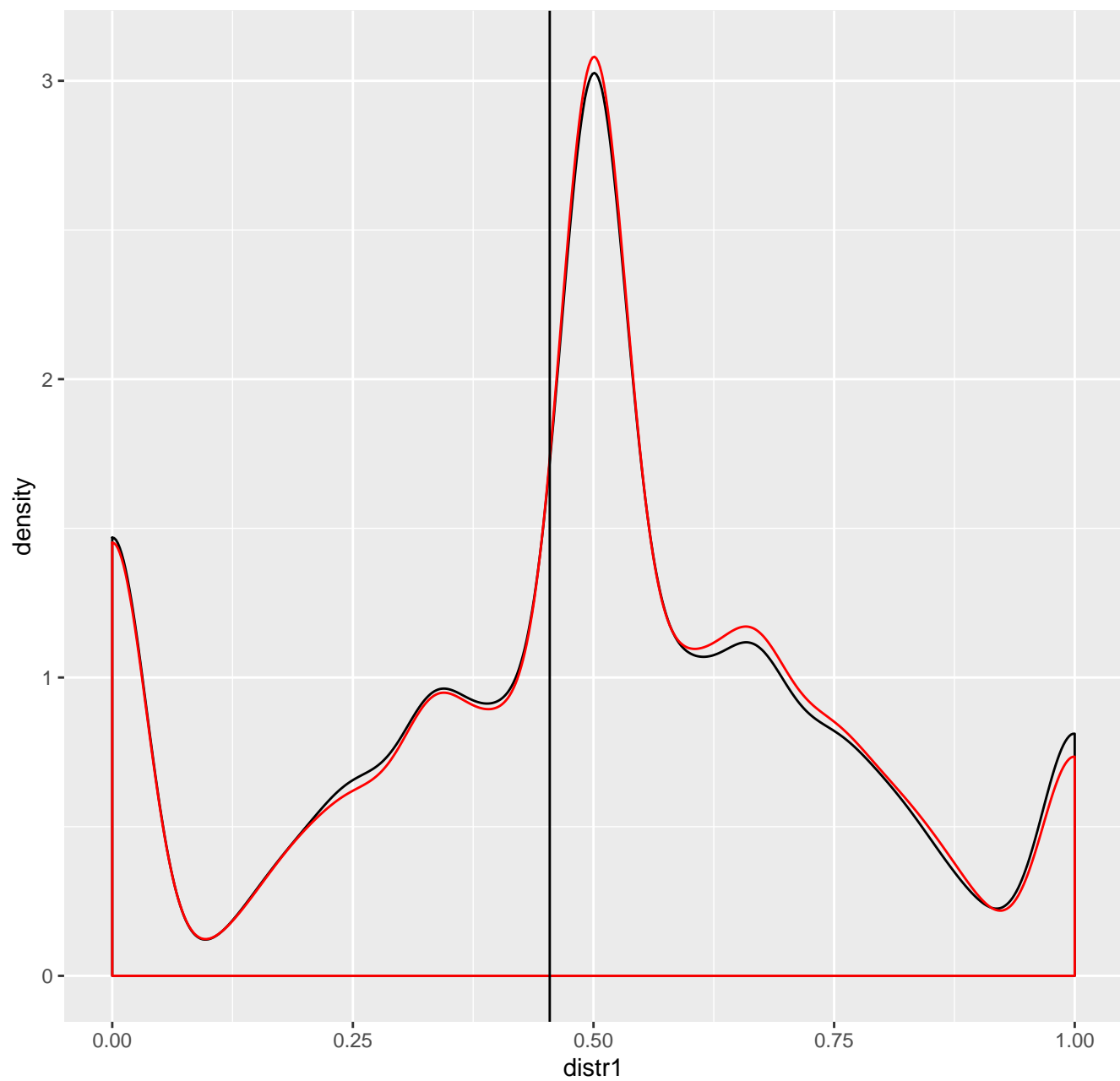
response distribution  $X_1|Y==0$  &  $X_2==0$



response distribution  $X_1|Y==0$  &  $X_2==1$

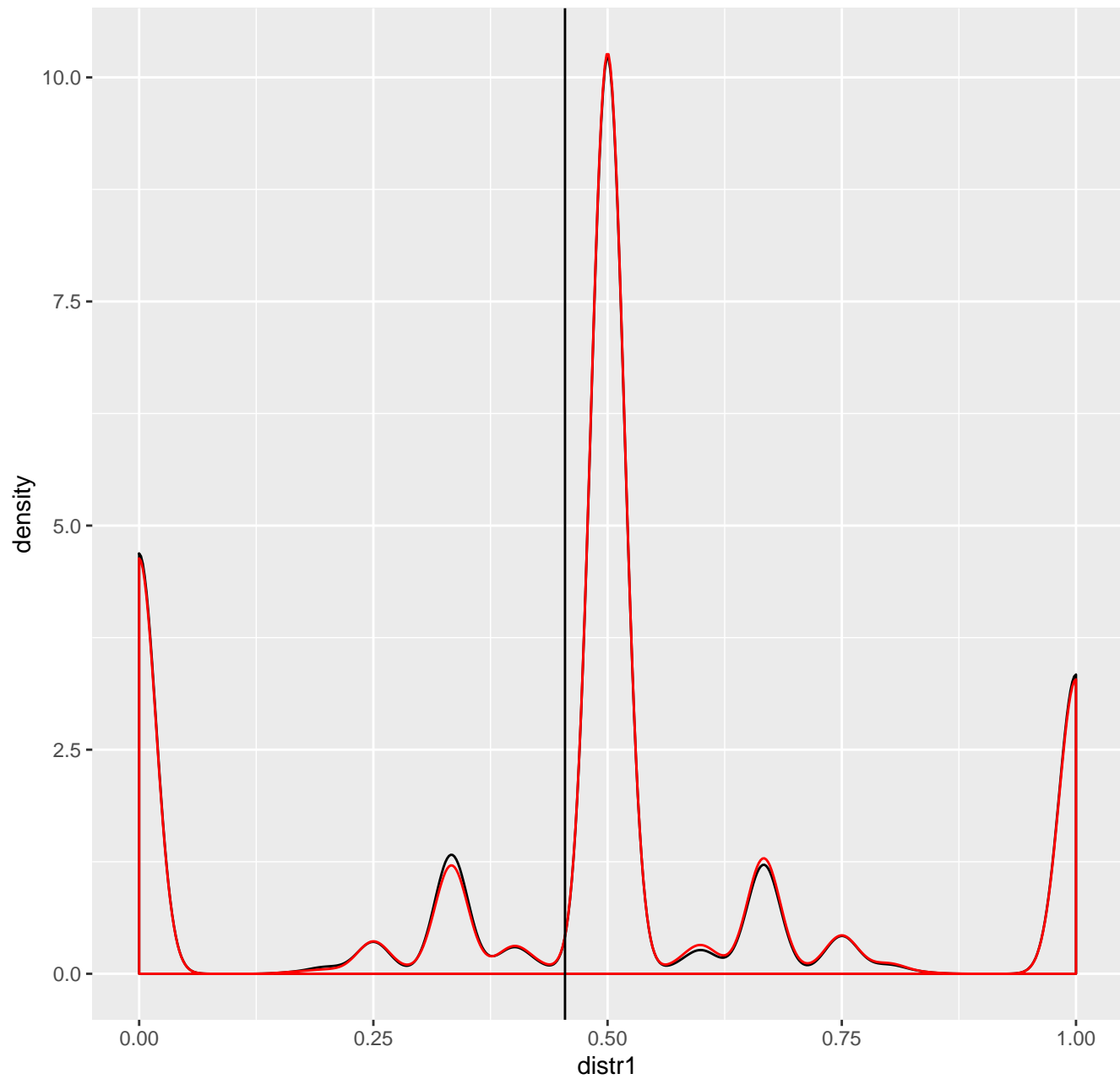


response distribution  $X_1|Y==1$

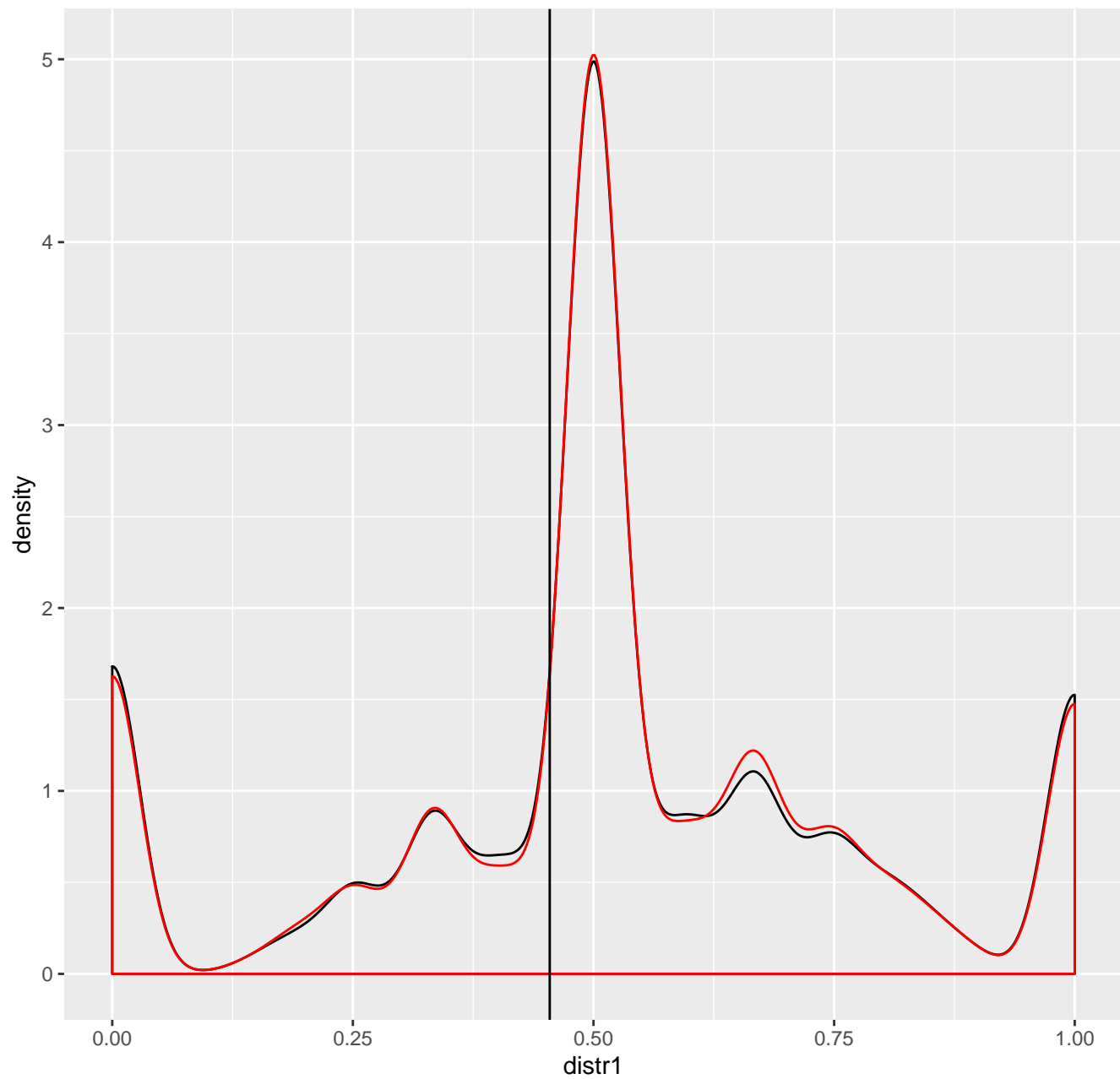




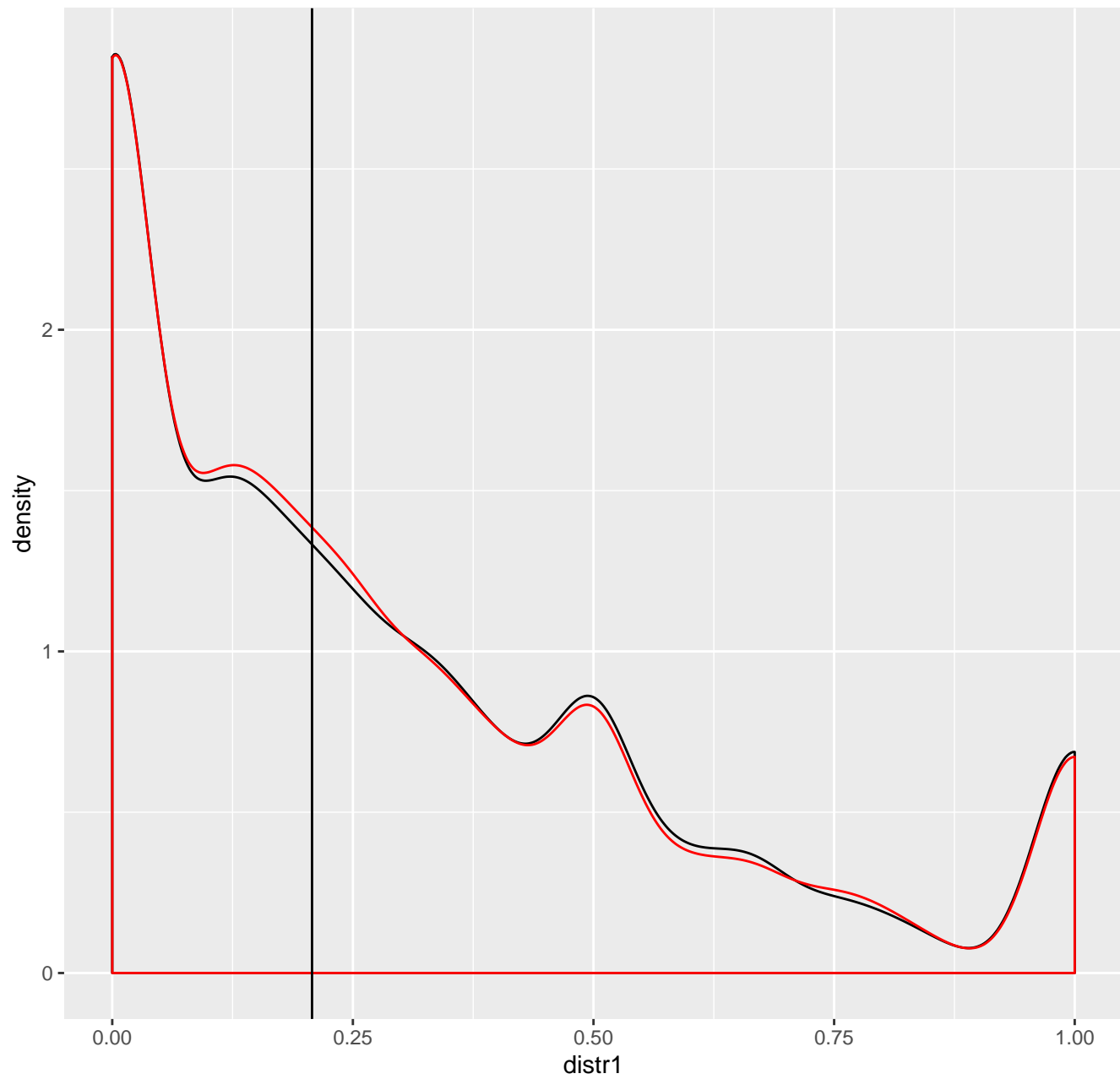
response distribution  $X1|Y==1 \text{ \& } X2==0$



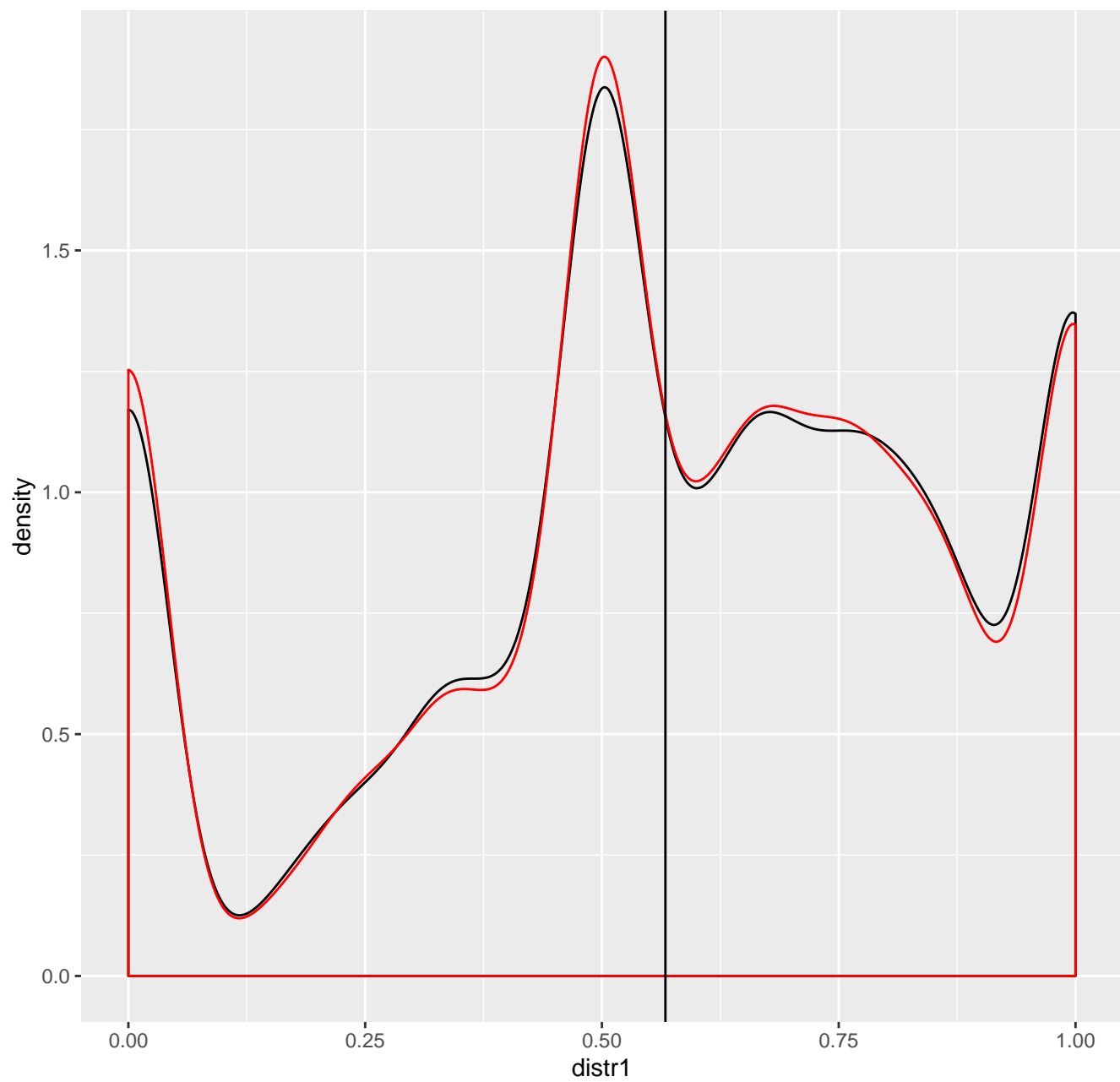
response distribution  $X_1|Y==1$  &  $X_2==1$



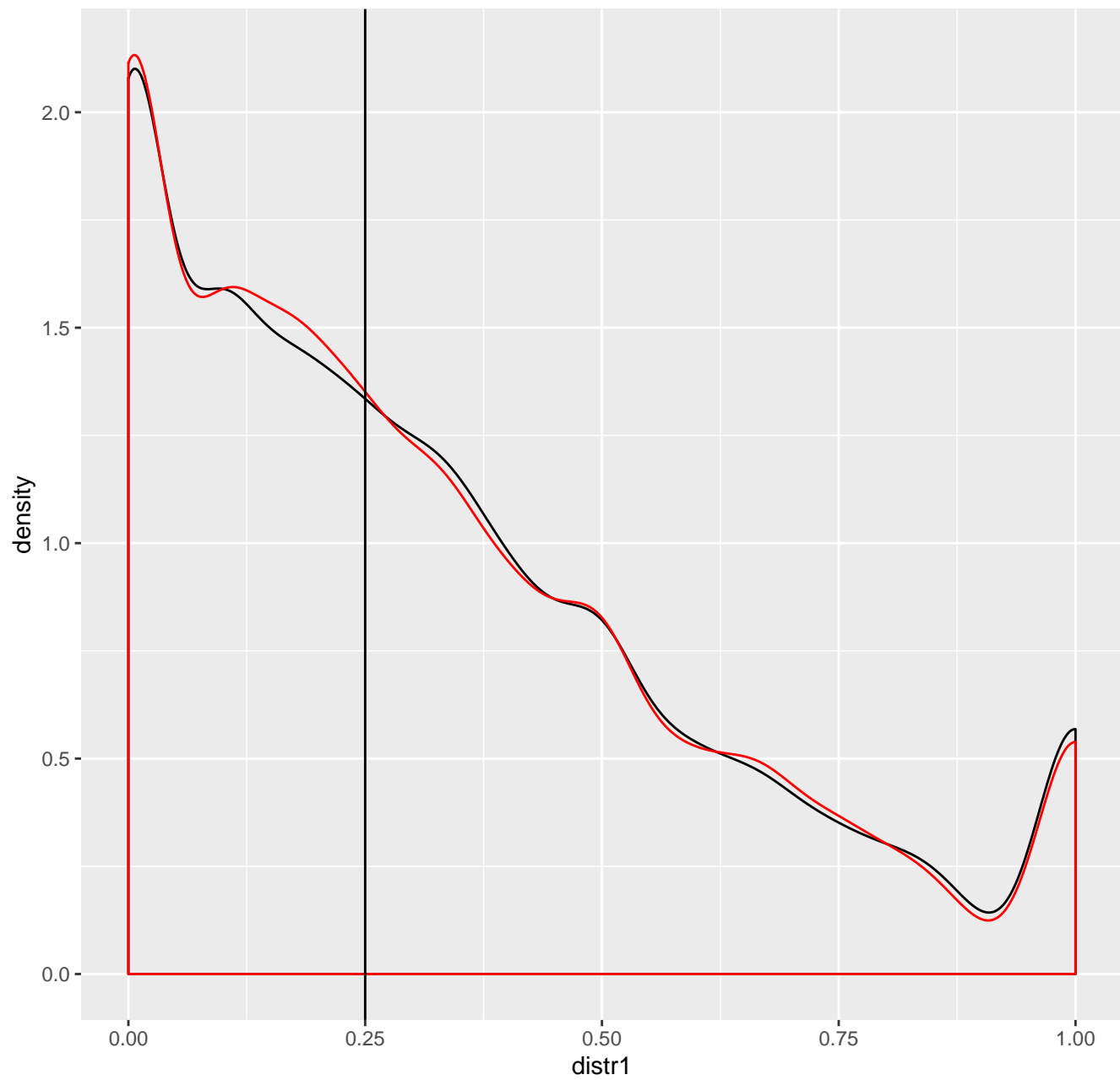
response distribution  $Y|X_2==0$



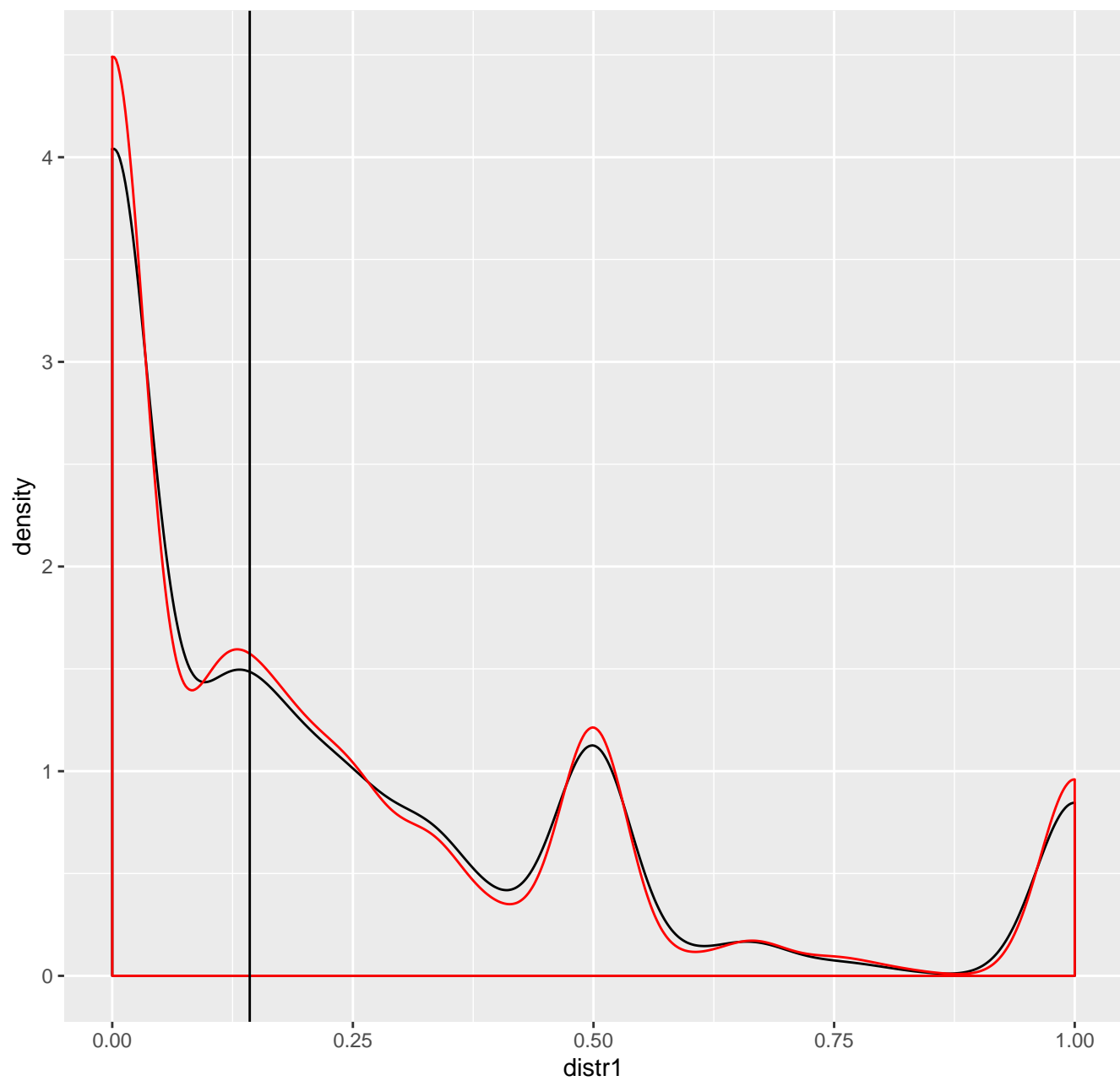
response distribution  $Y|X_2==1$



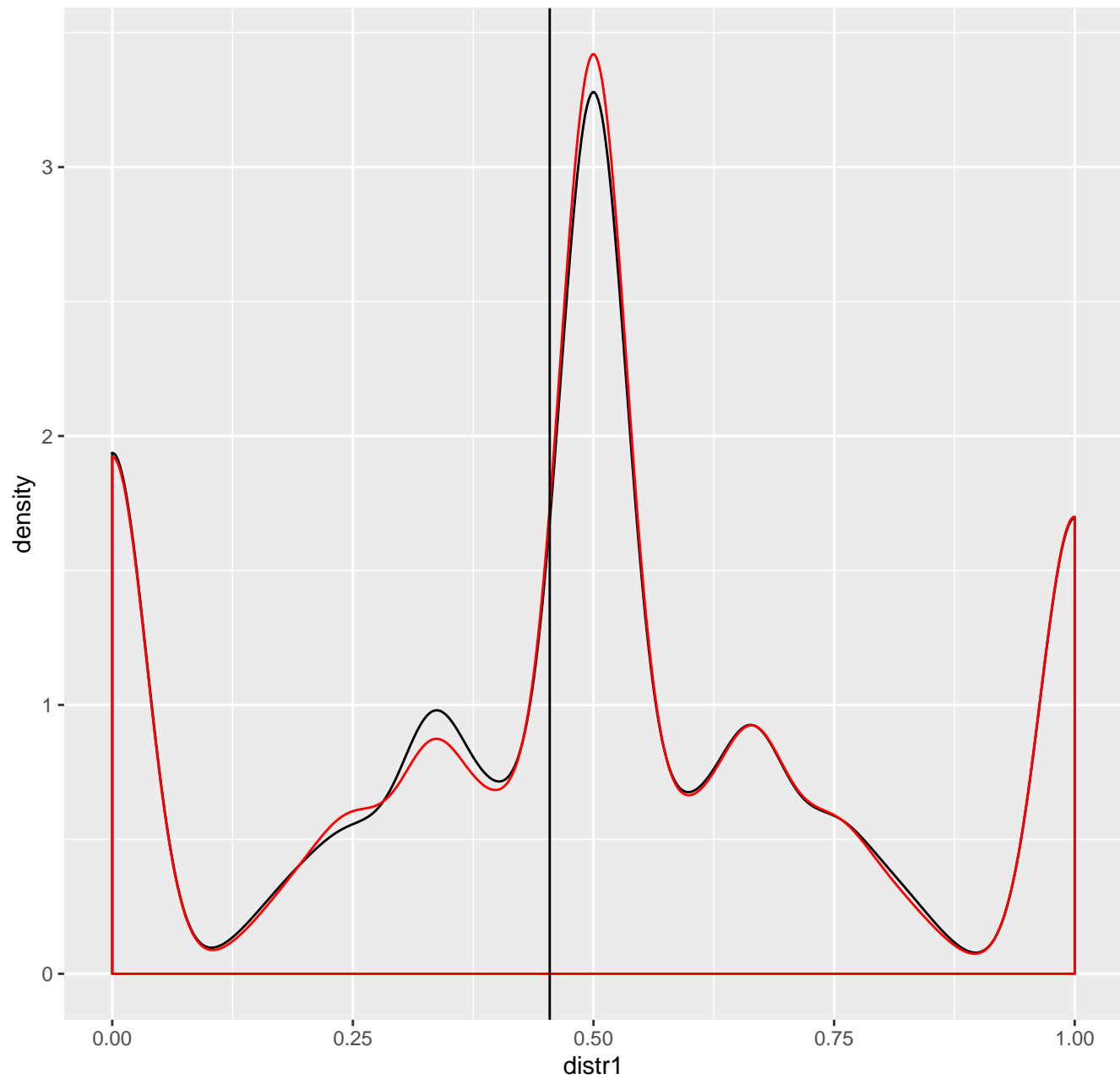
response distribution  $Y|X_1=0$



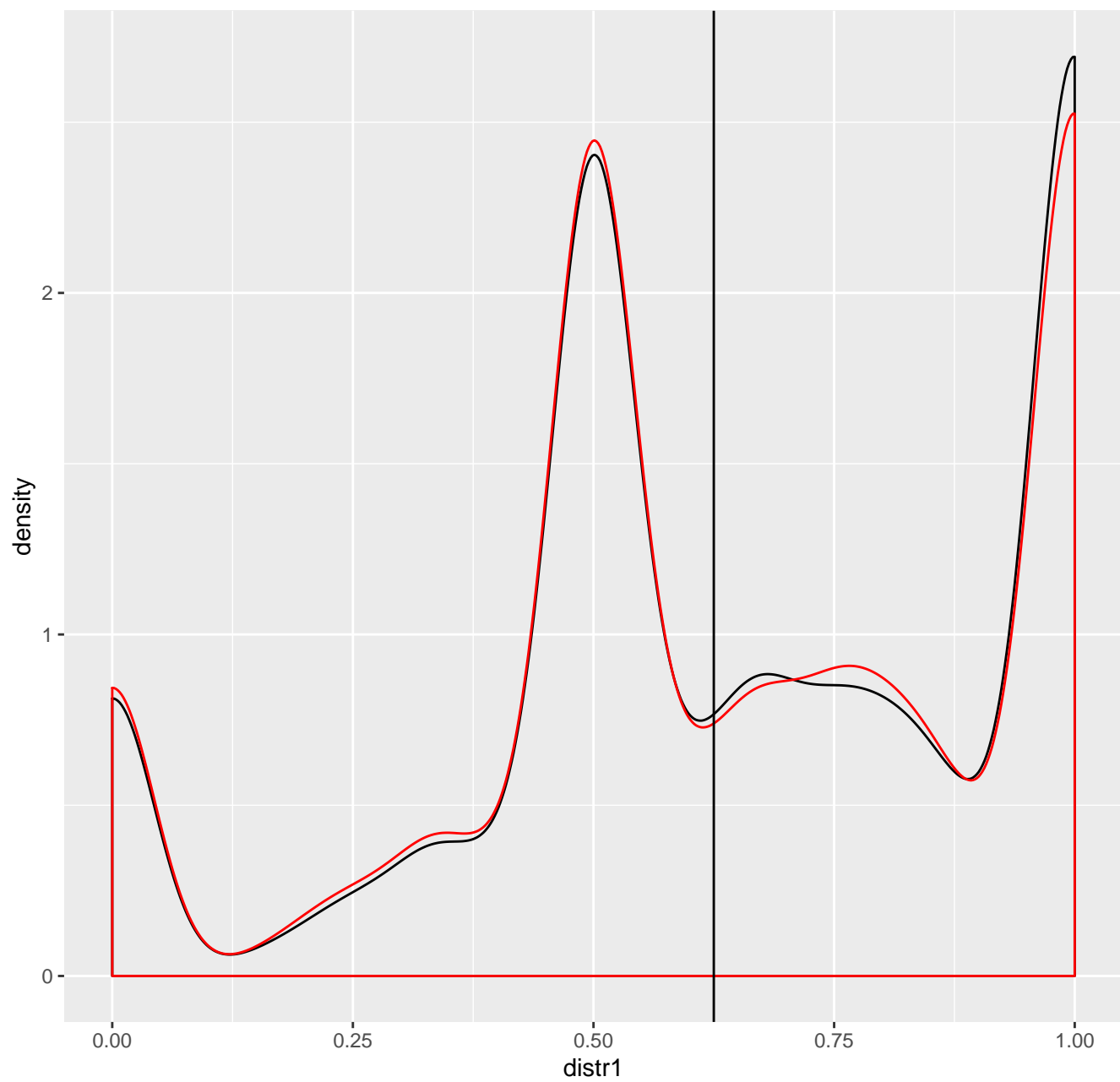
response distribution  $Y|X_1==0 \text{ \& } X_2==0$



response distribution  $Y|X_1==0$  &  $X_2==1$

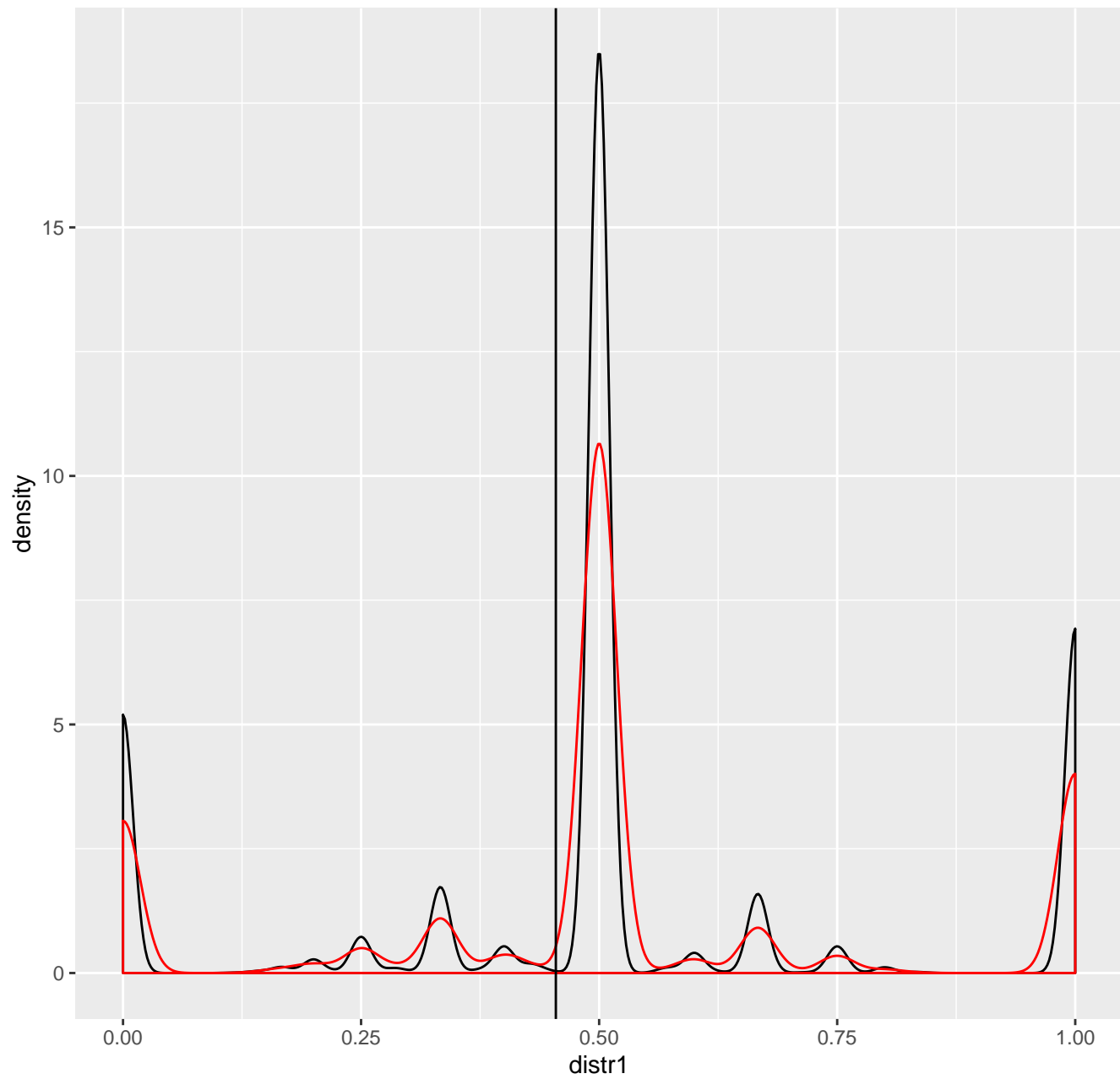


response distribution  $Y|X_1=1$

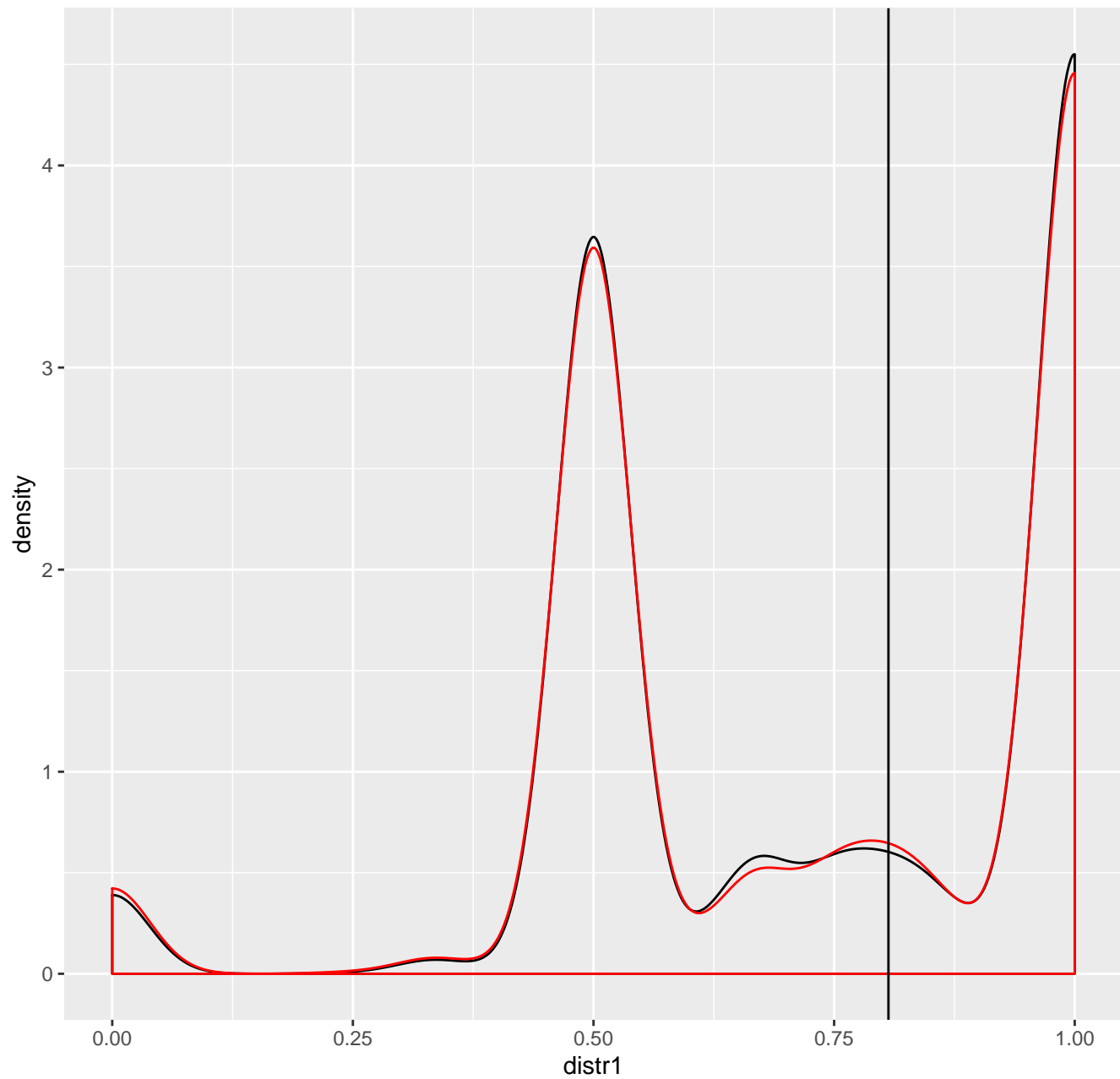




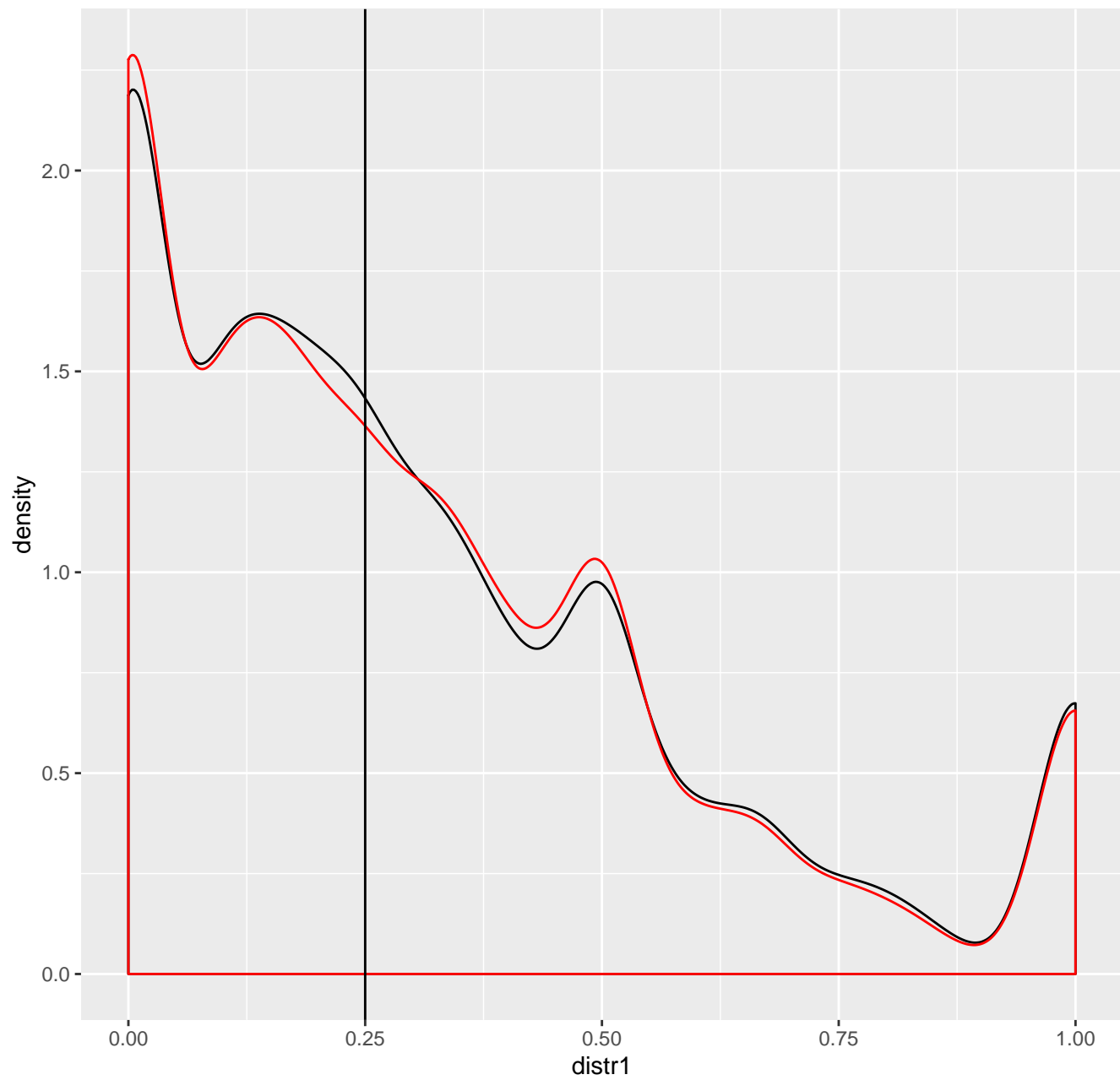
response distribution  $Y|X_1==1 \text{ \& } X_2==0$



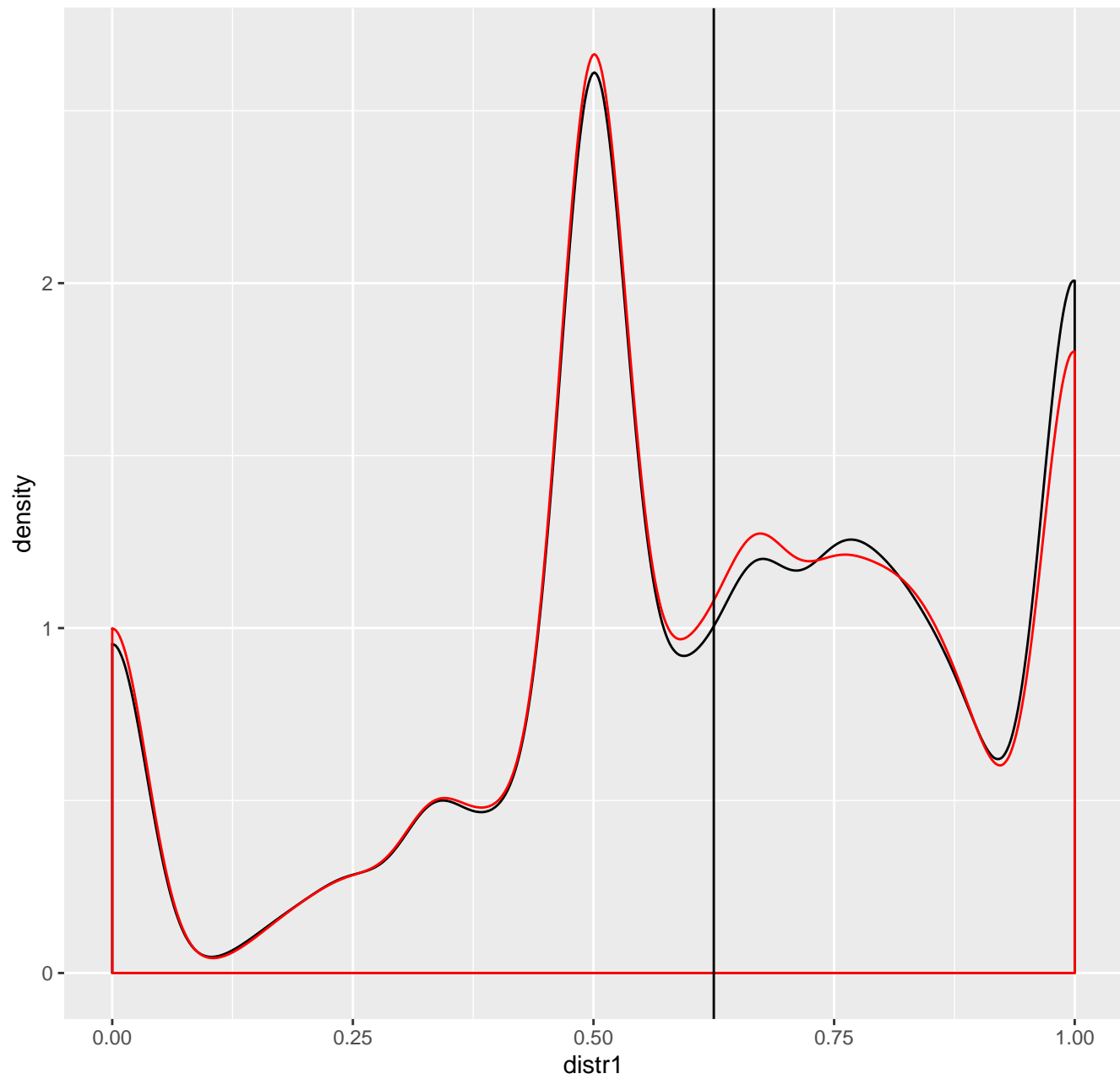
response distribution  $Y|X_1=1 \text{ \& } X_2=1$



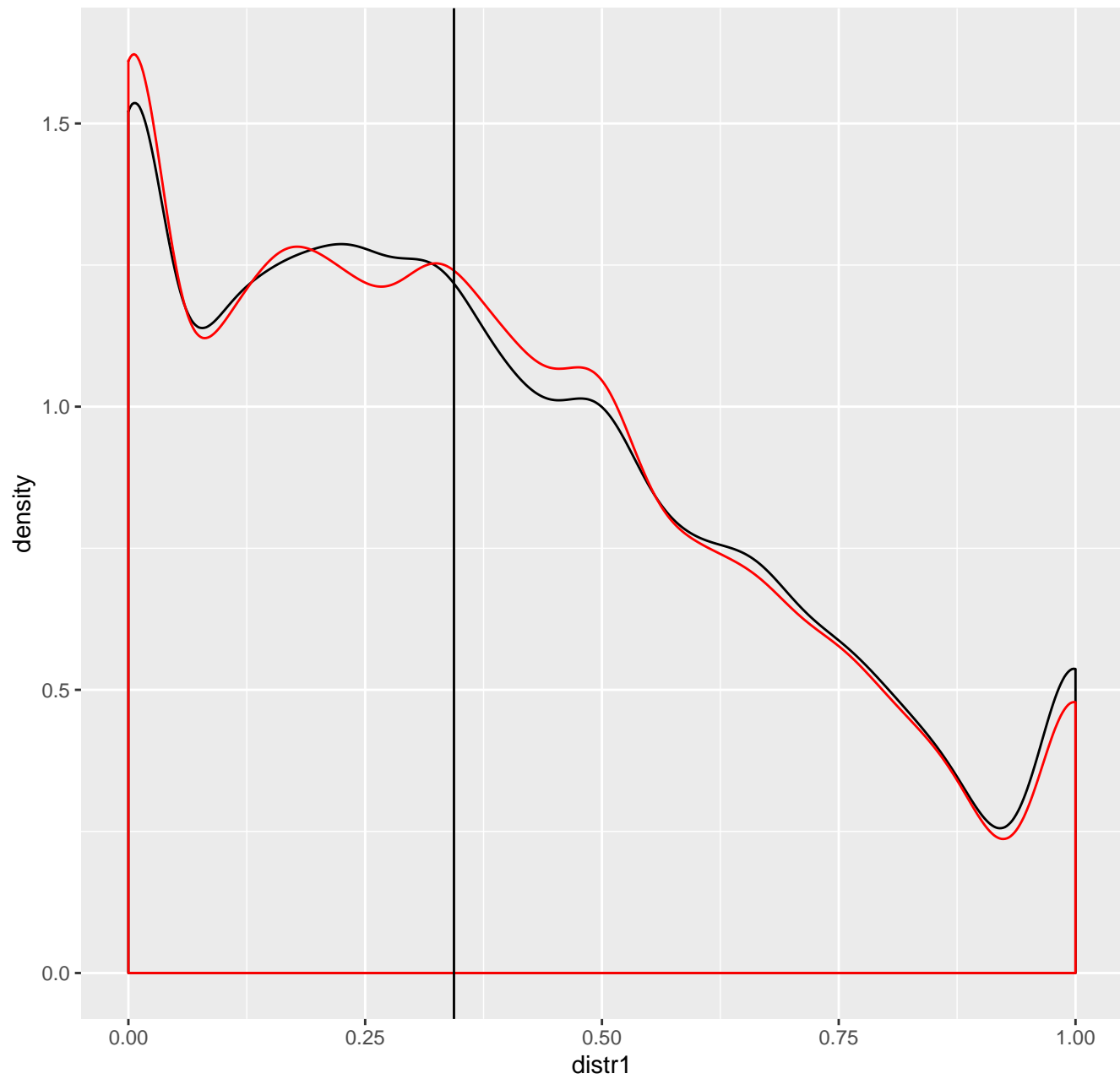
response distribution  $X_2|Y=0$



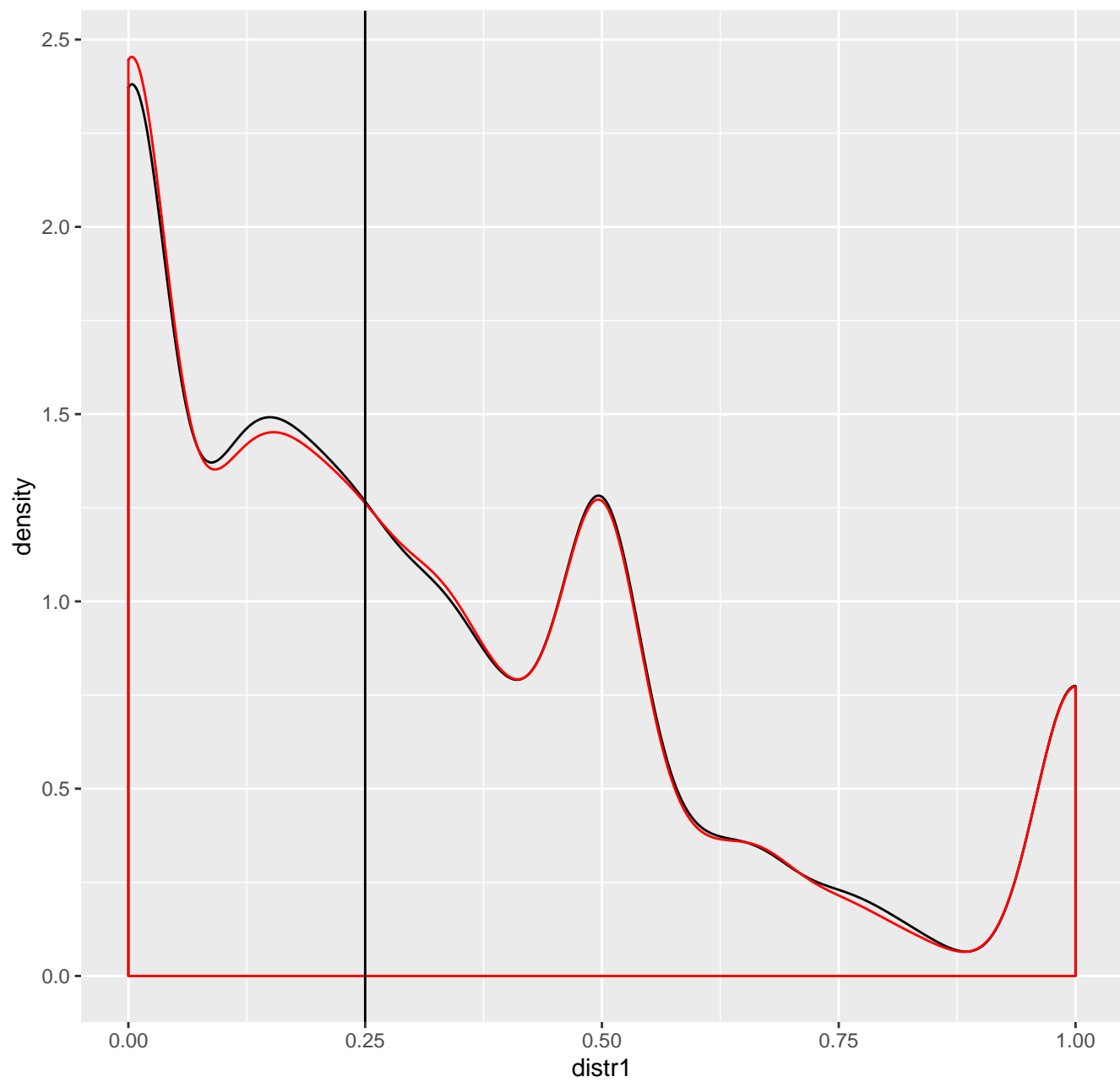
response distribution  $X_2|Y==1$



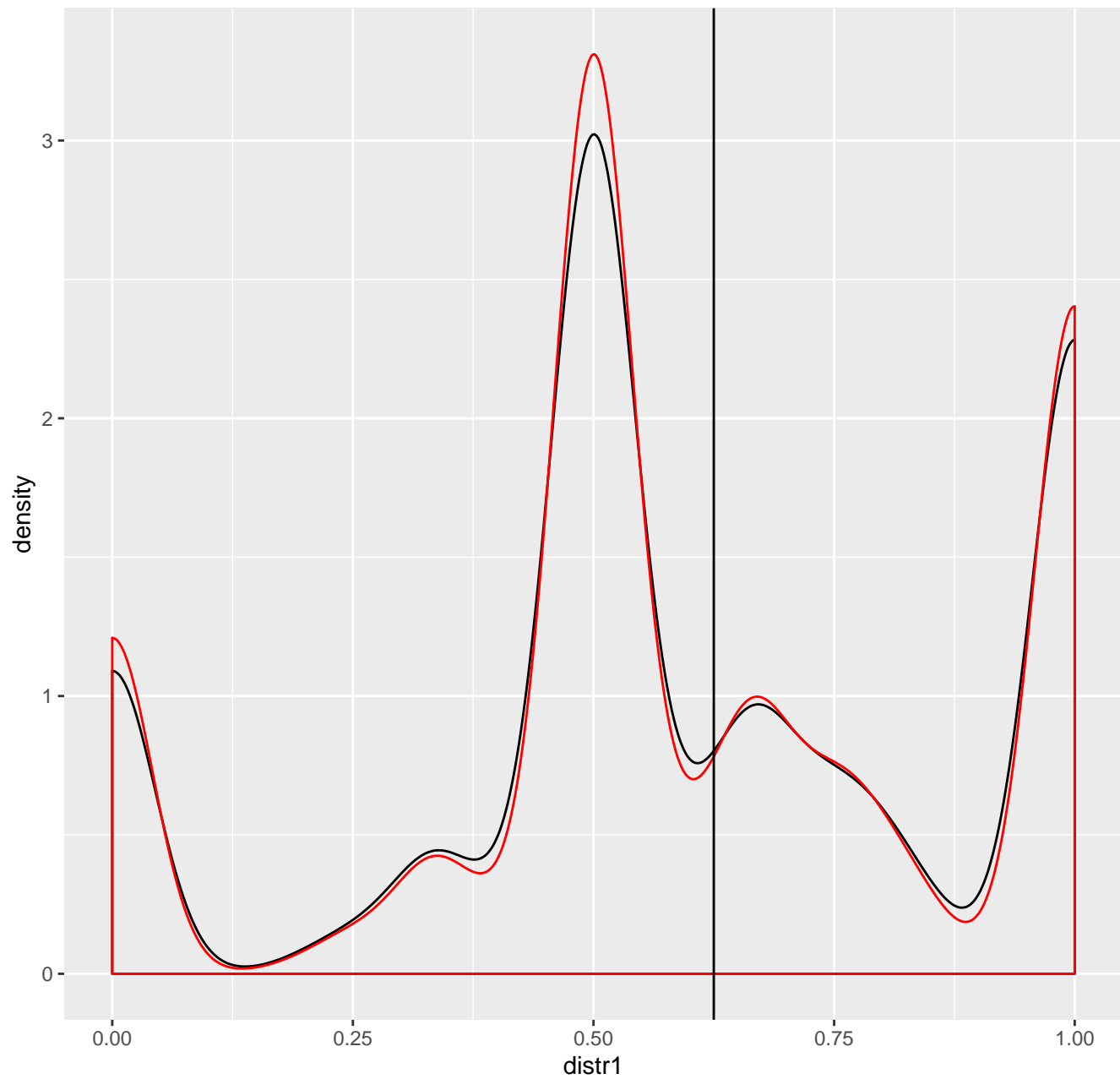
response distribution  $X_2|X_1==0$



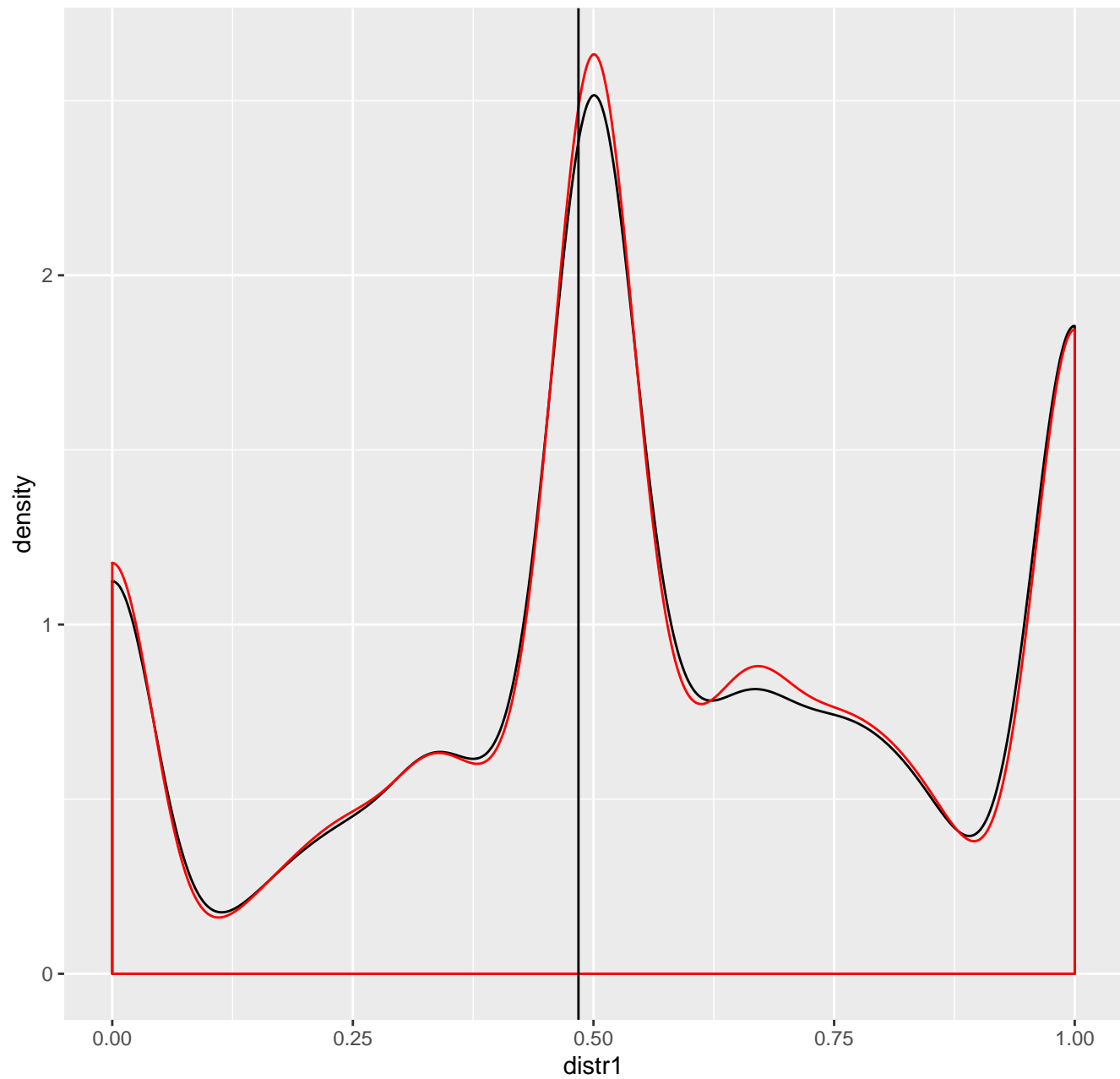
response distribution  $X_2|Y=0$  &  $X_1=0$



response distribution  $X_2|Y==1 \text{ \& } X_1==0$

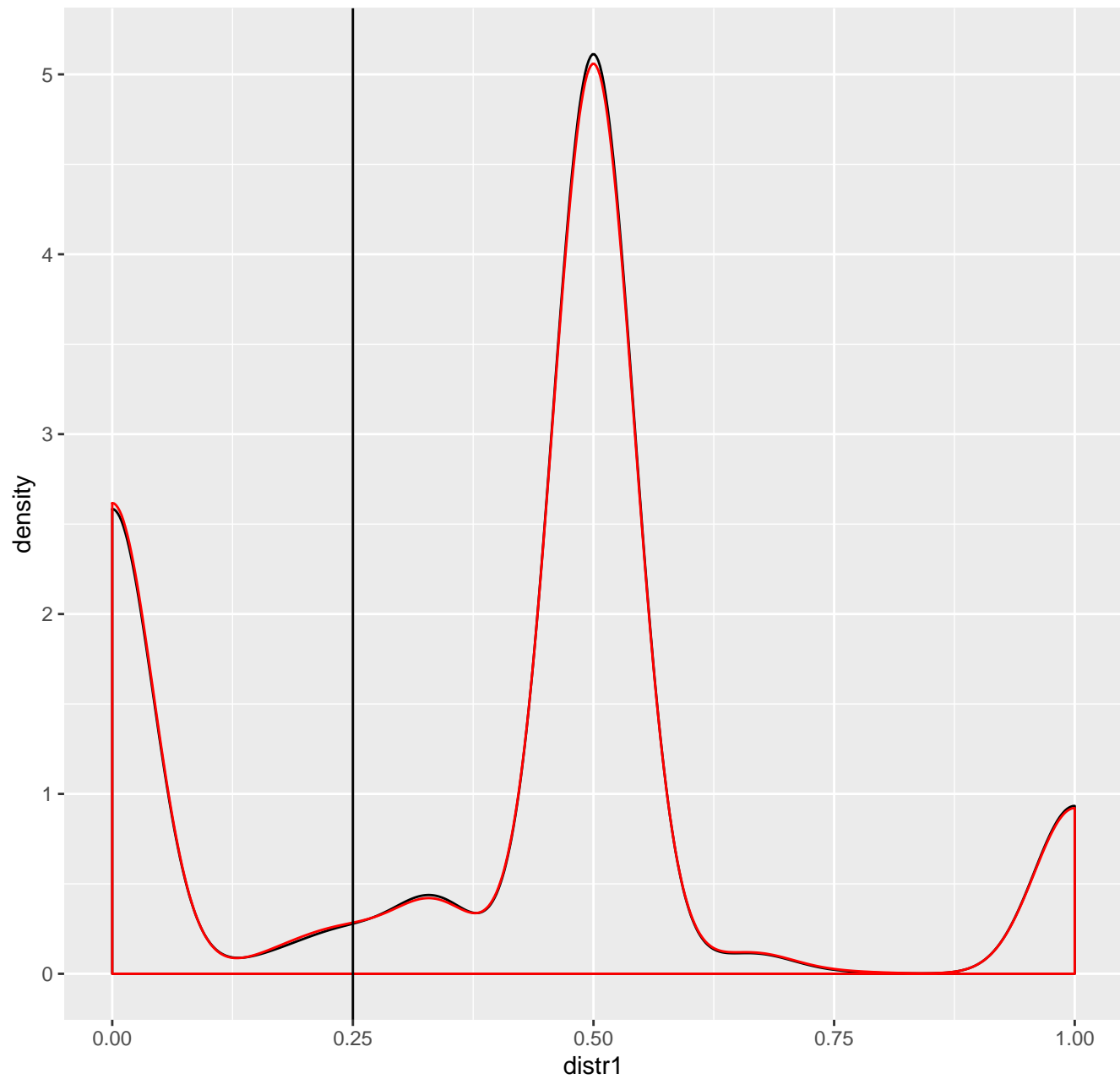


response distribution  $X_2|X_1=1$

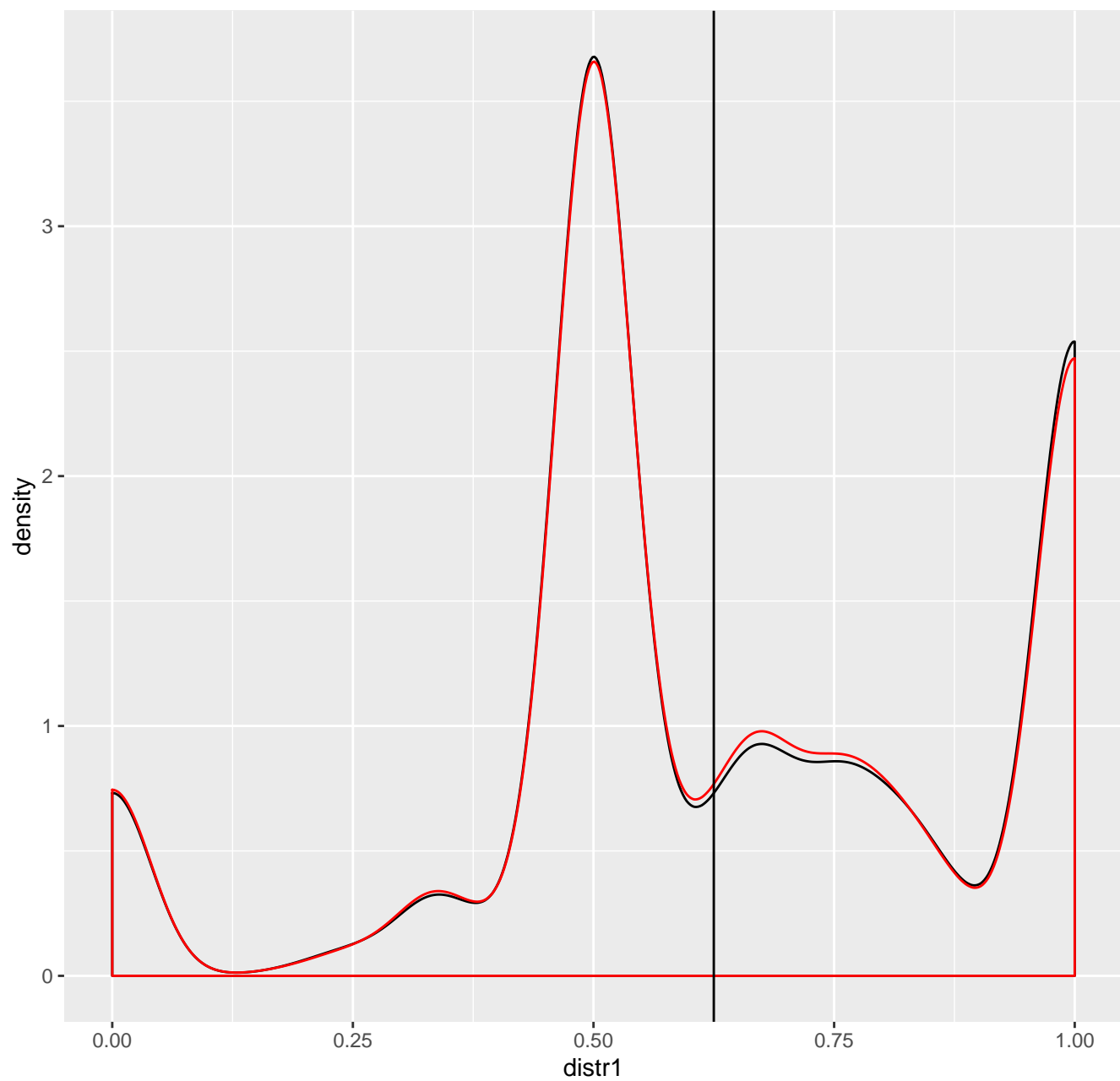




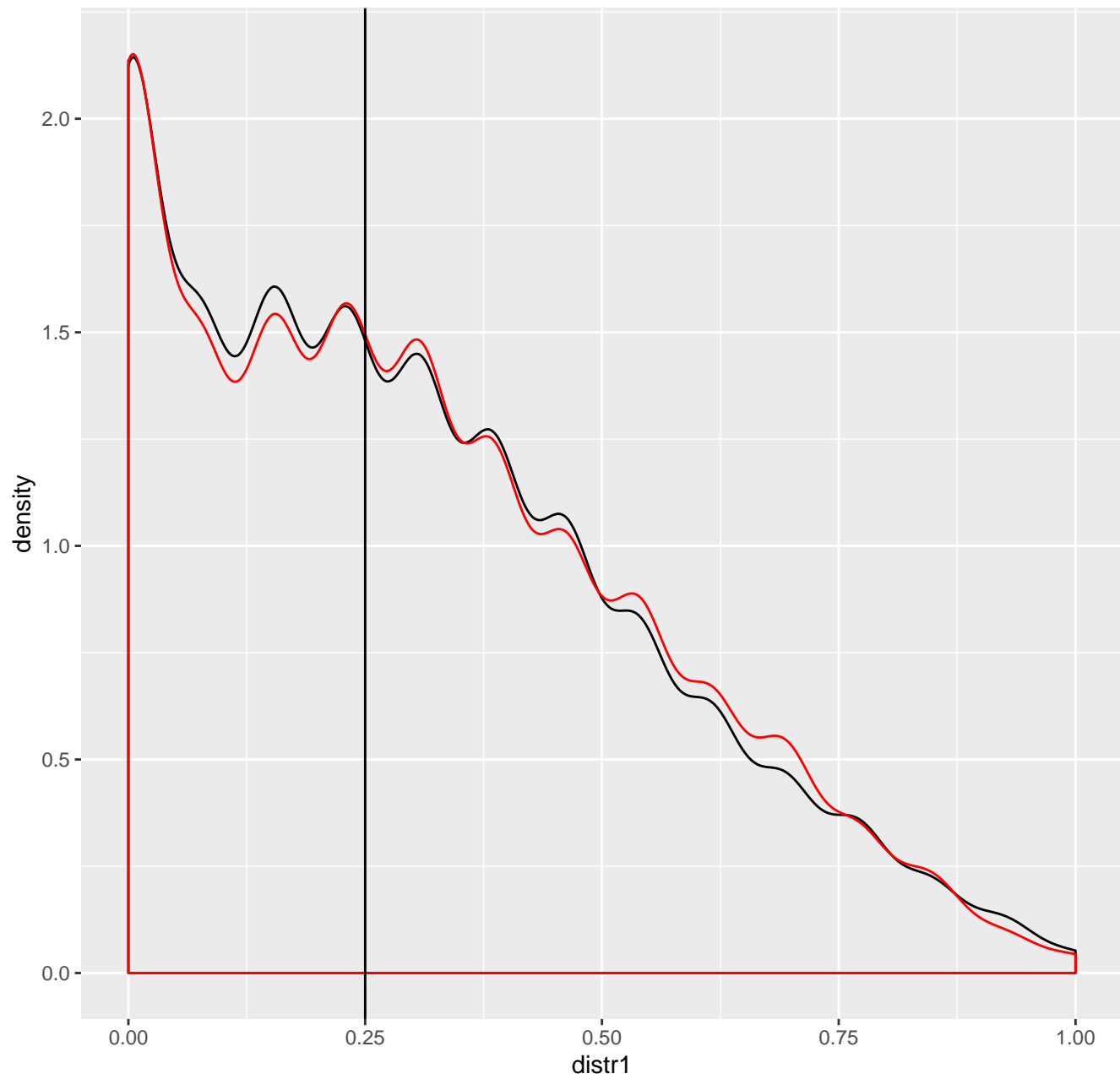
response distribution  $X_2|Y==0$  &  $X_1==1$



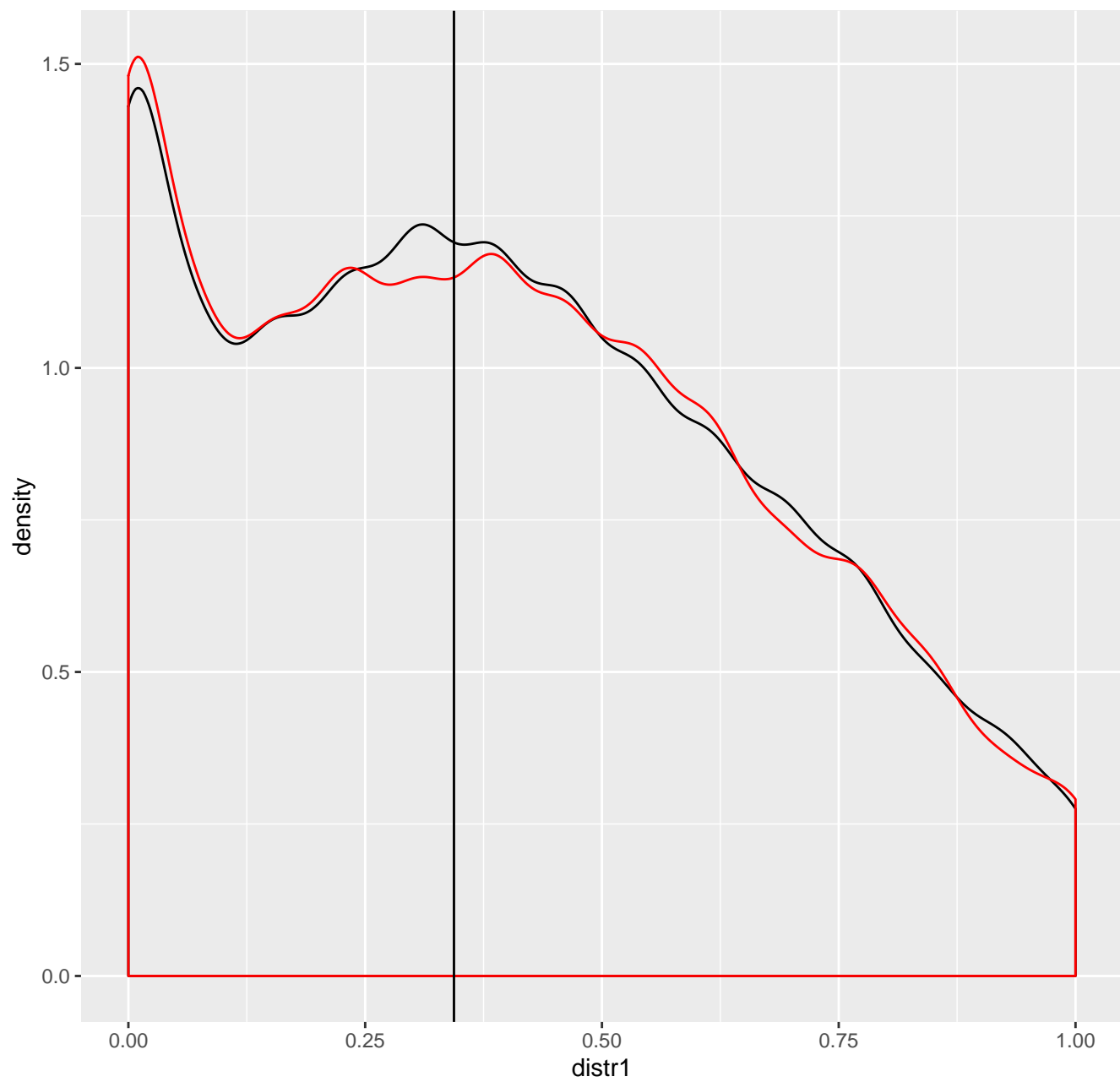
response distribution  $X_2|Y==1$  &  $X_1==1$



response distribution X1



response distribution Y



response distribution X2

