

Input parameters (black lines)

model

IK BayesianMS

bias

0.5

nChains

5000

betavar

0

meanChainlen

13

input joint distr

X1	Y	X2	p
1	1	1	0.04959375
1	1	0	0.03665625
1	0	1	0.0095625
1	0	0	0.0541875
0	1	1	0.0733125
0	1	0	0.0541875
0	0	1	0.108375
0	0	0	0.614125

causal strengths

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

baserates 0.15 0.15 0.15

mean sim joint distr

state	X1	Y	X2	p
1	1	1	1	0.11343077
2	1	1	0	0.04829231
3	1	0	1	0.01306154
4	1	0	0	0.05240000
5	0	1	1	0.09169231
6	0	1	0	0.05555385
7	0	0	1	0.09686154
8	0	0	0	0.52870769

Input parameters (red lines)

input joint distr

model

IK BayesianMS

X1	Y	X2	p
1	1	1	0.44240625
1	1	0	0.09384375
1	0	1	0.0739375
1	0	0	0.0398125
0	1	1	0.1876875
0	1	0	0.0398125
0	0	1	0.079625
0	0	0	0.042875

causal strengths

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

bias

0.5

baserates 0.65 0.65 0.65

mean sim joint distr

nChains

5000

state	X1	Y	X2	p
1	1	1	1	0.40530769
2	1	1	0	0.08898462
3	1	0	1	0.07250769
4	1	0	0	0.04923077
5	0	1	1	0.16023077
6	0	1	0	0.04855385
7	0	0	1	0.08596923
8	0	0	0	0.08921538

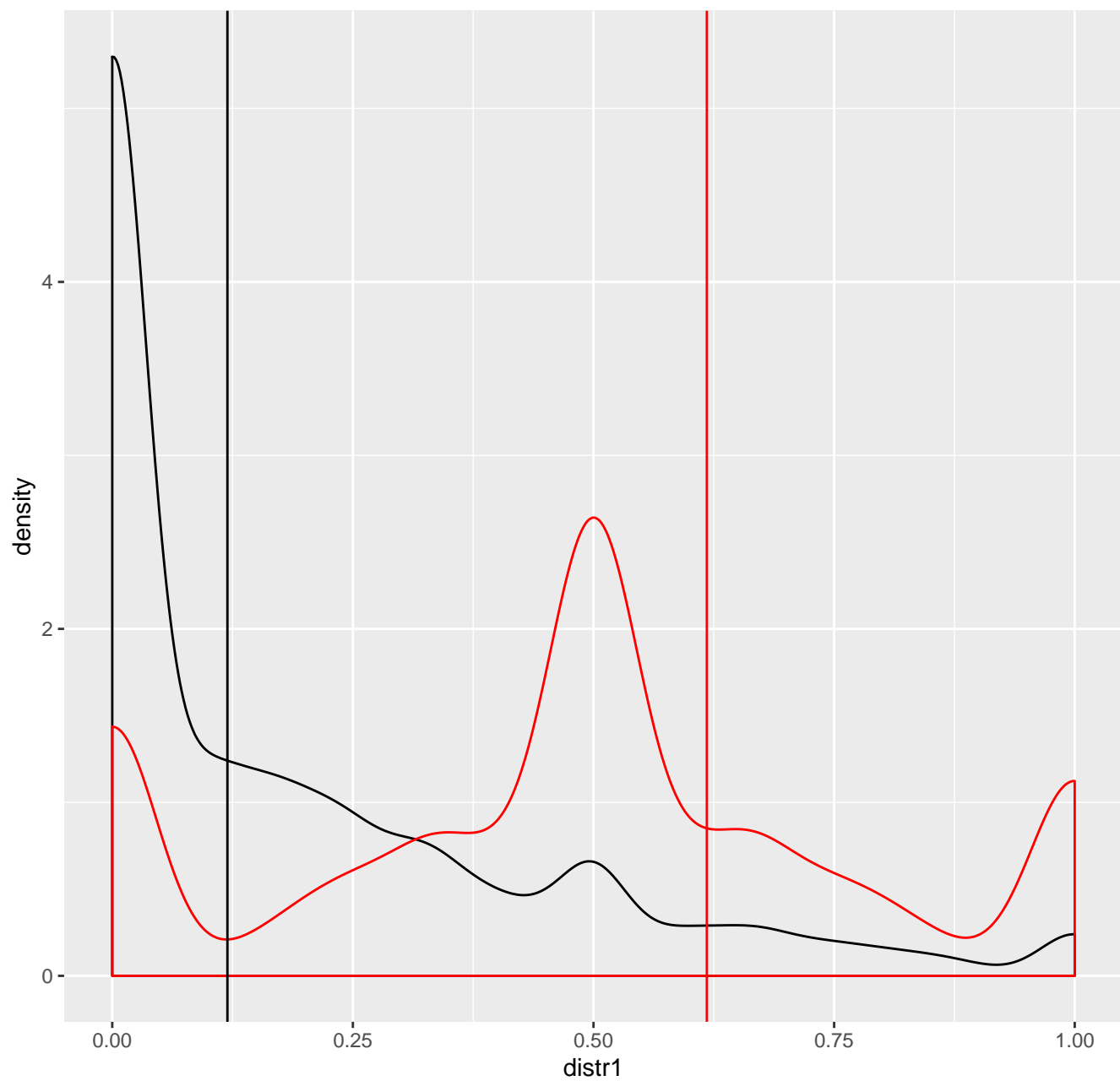
betavar

0

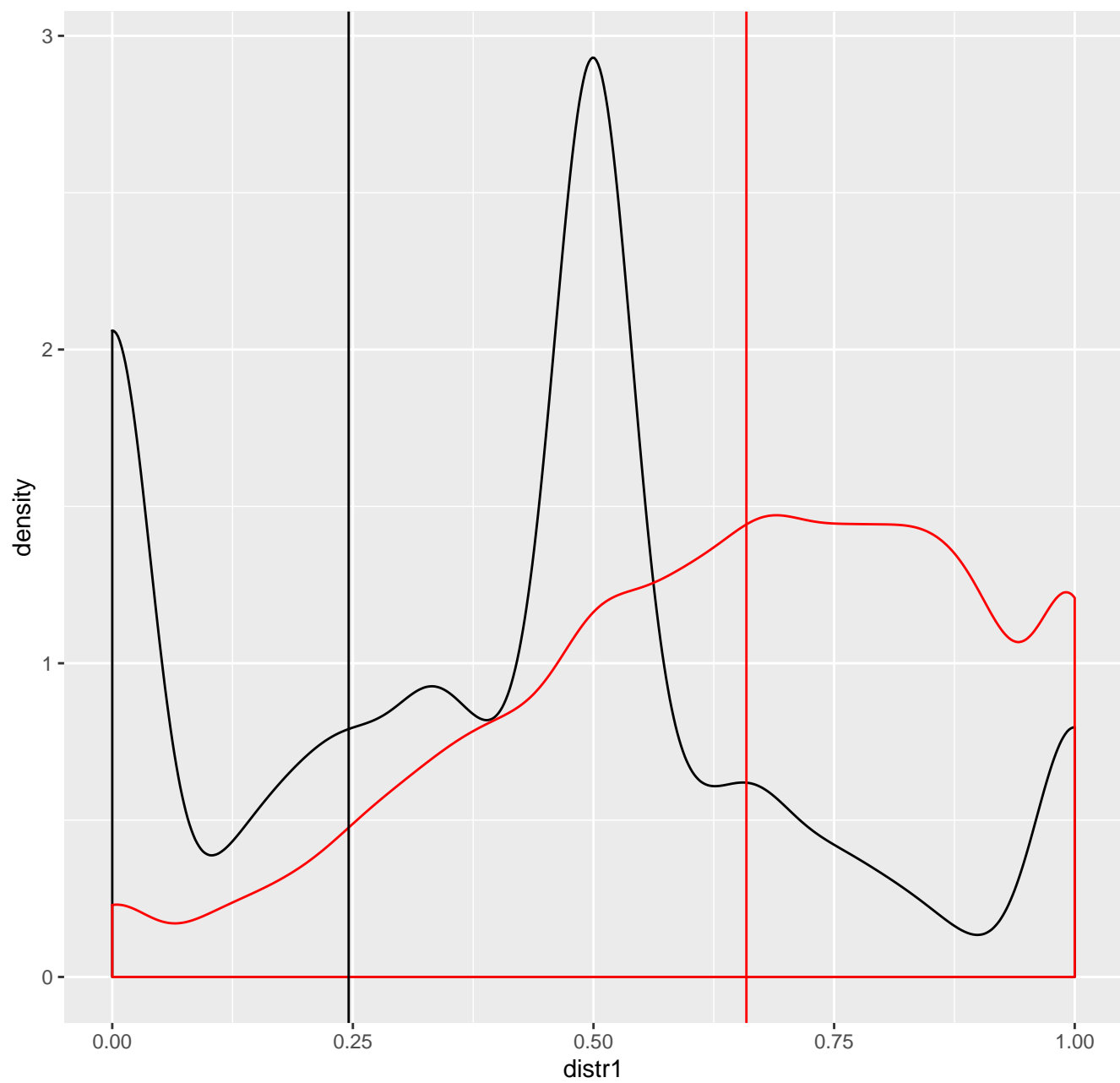
meanChainlen

13

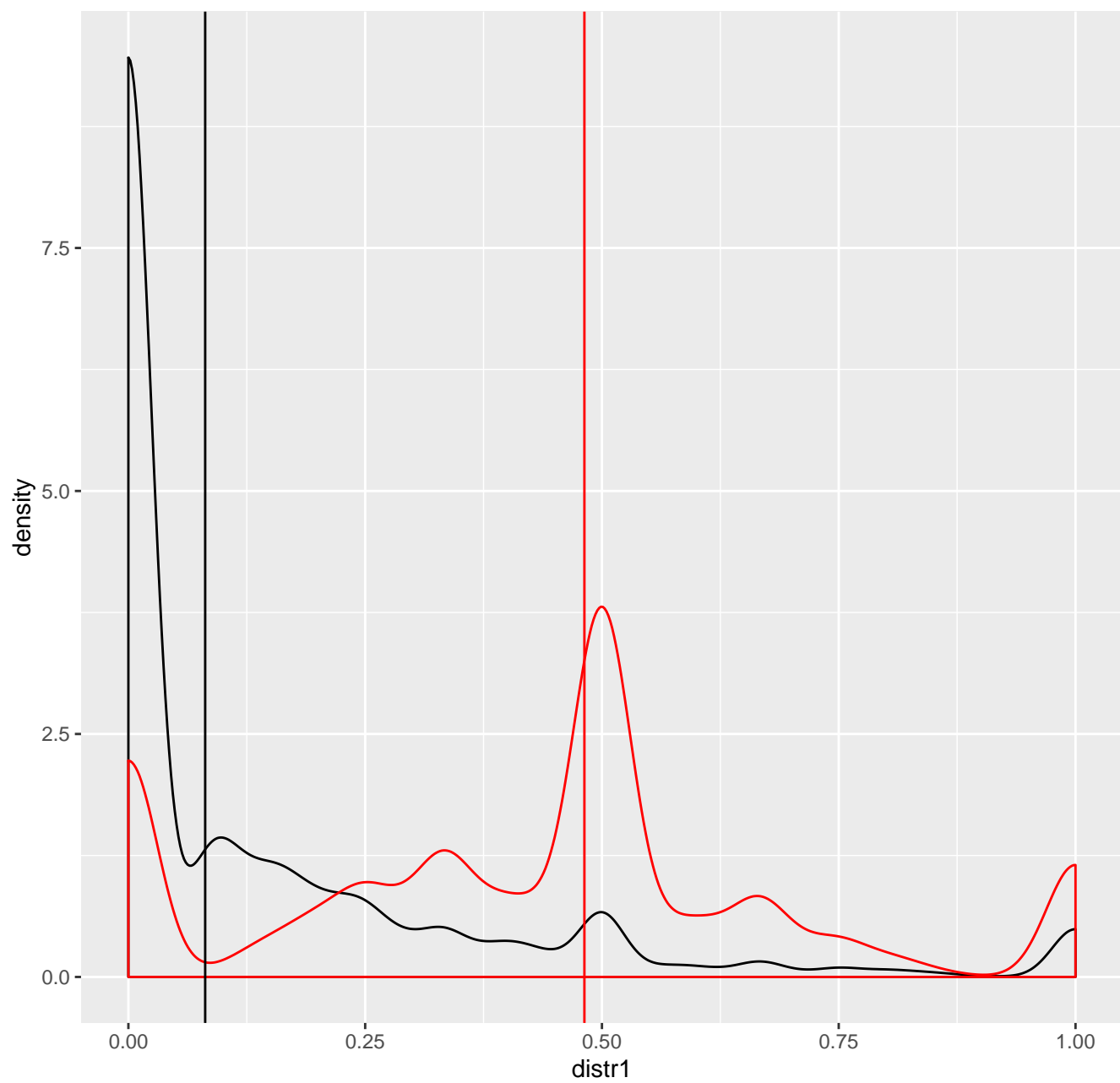
response distribution $X_1|X_2==0$



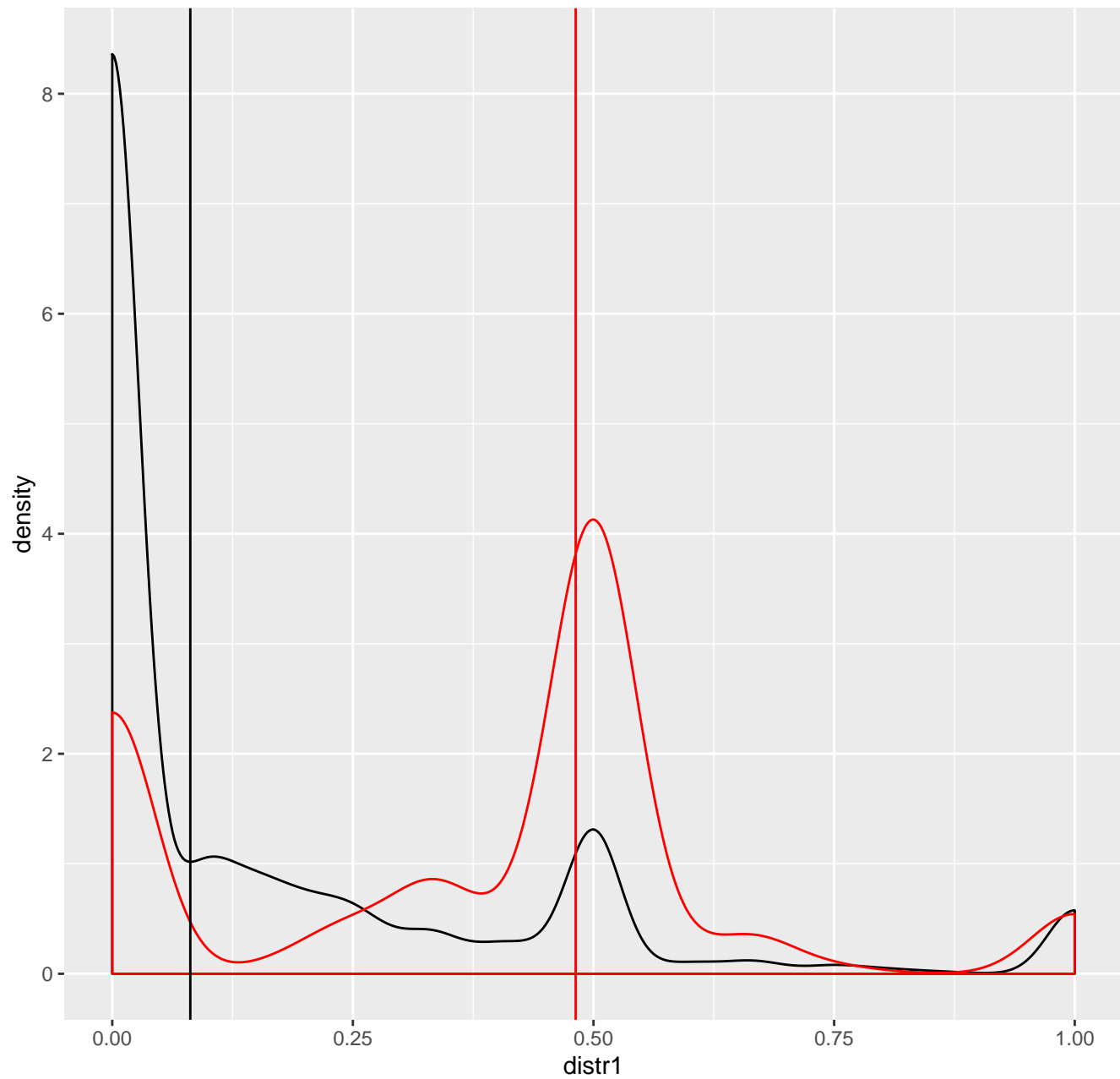
response distribution $X_1|X_2==1$



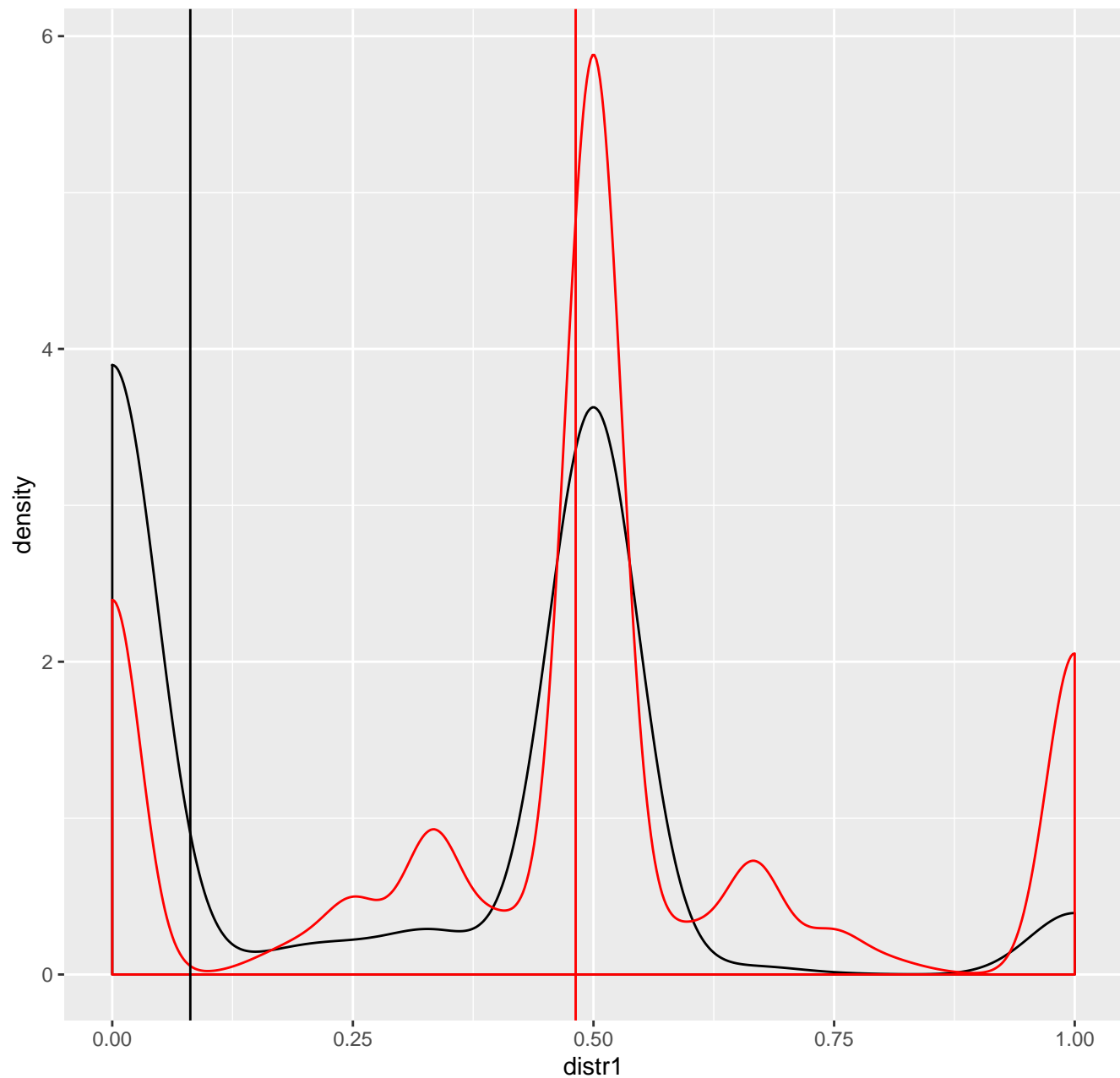
response distribution $X_1|Y==0$



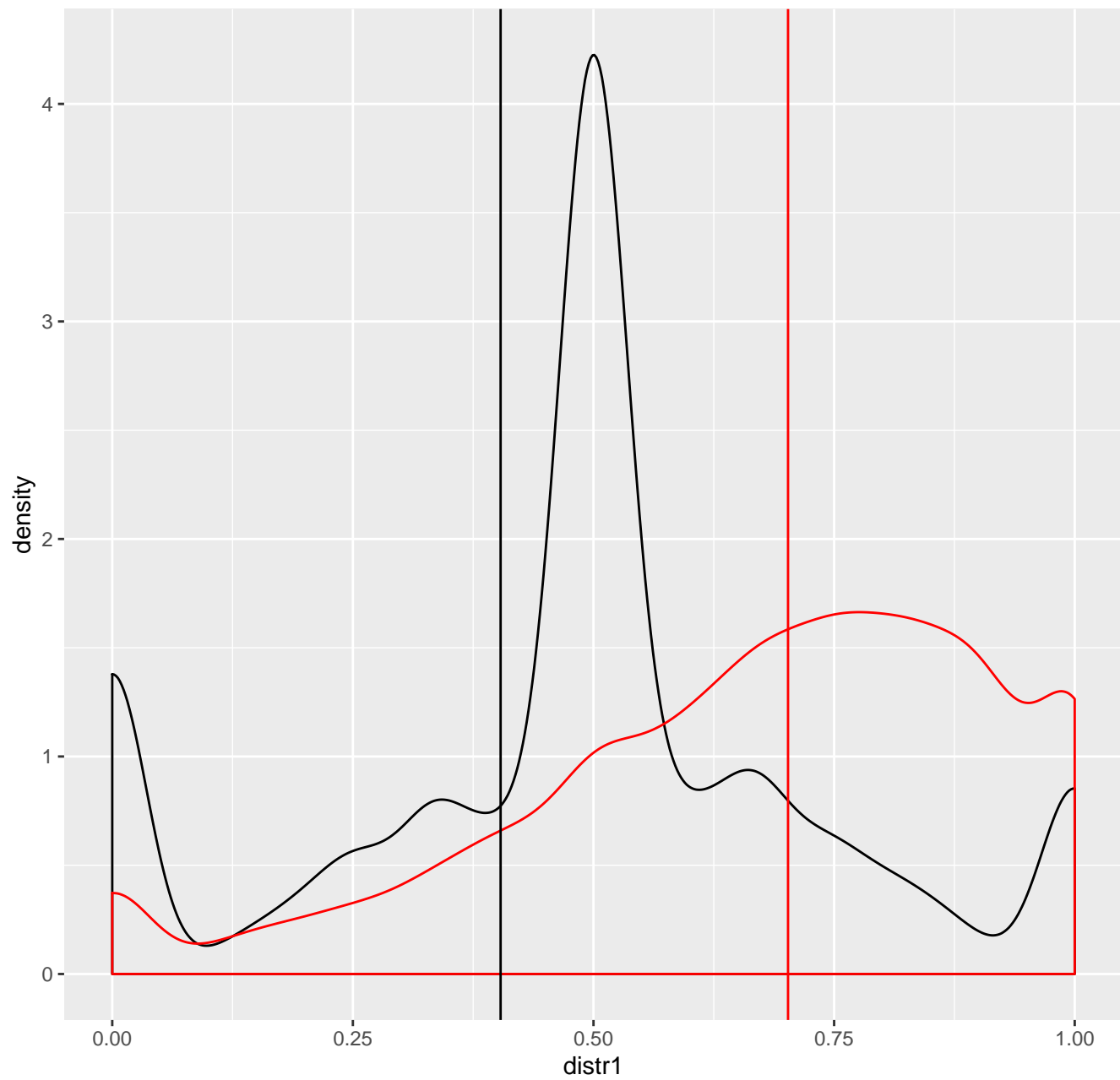
response distribution $X_1|Y==0$ & $X_2==0$



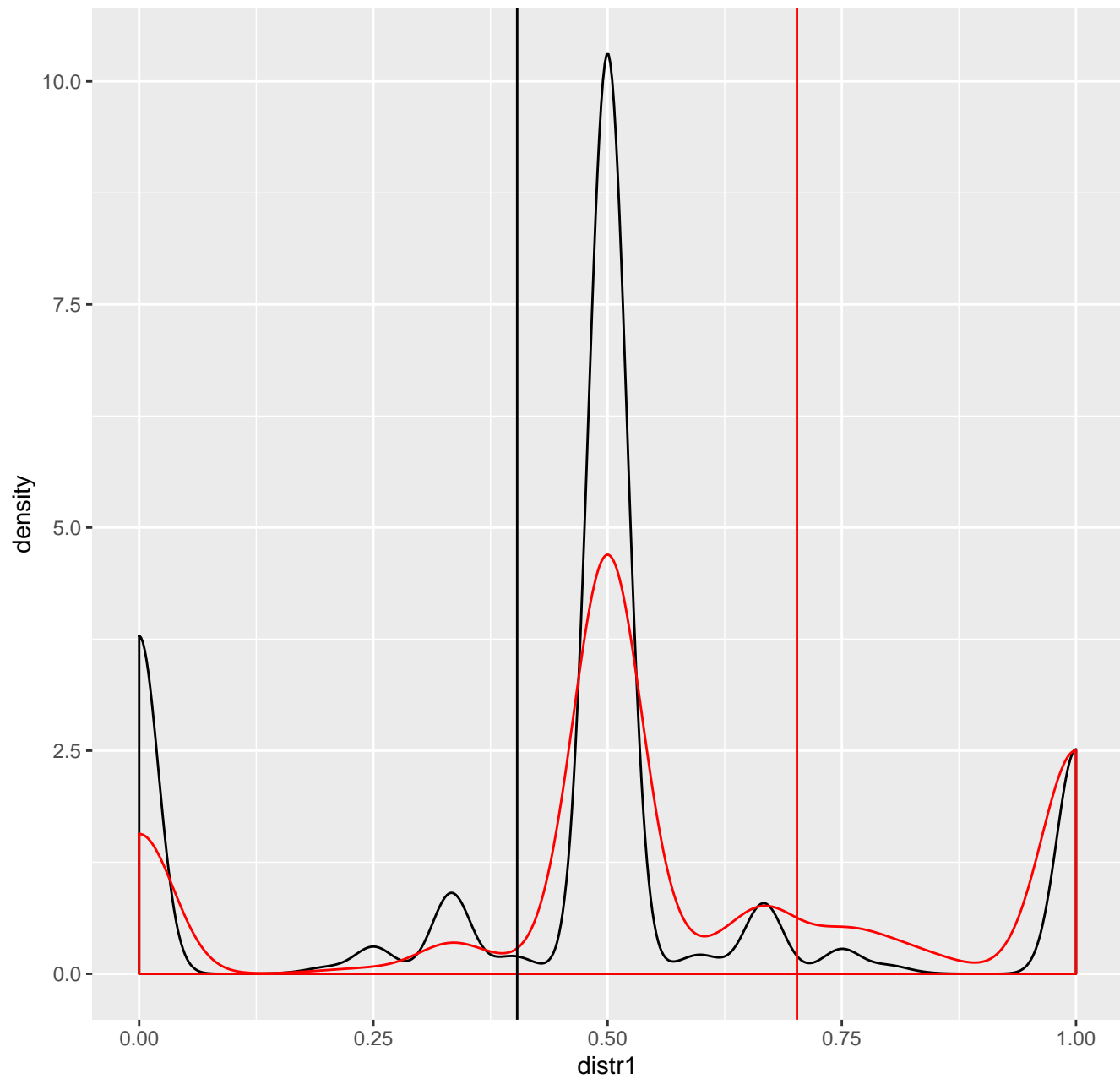
response distribution $X_1|Y==0$ & $X_2==1$



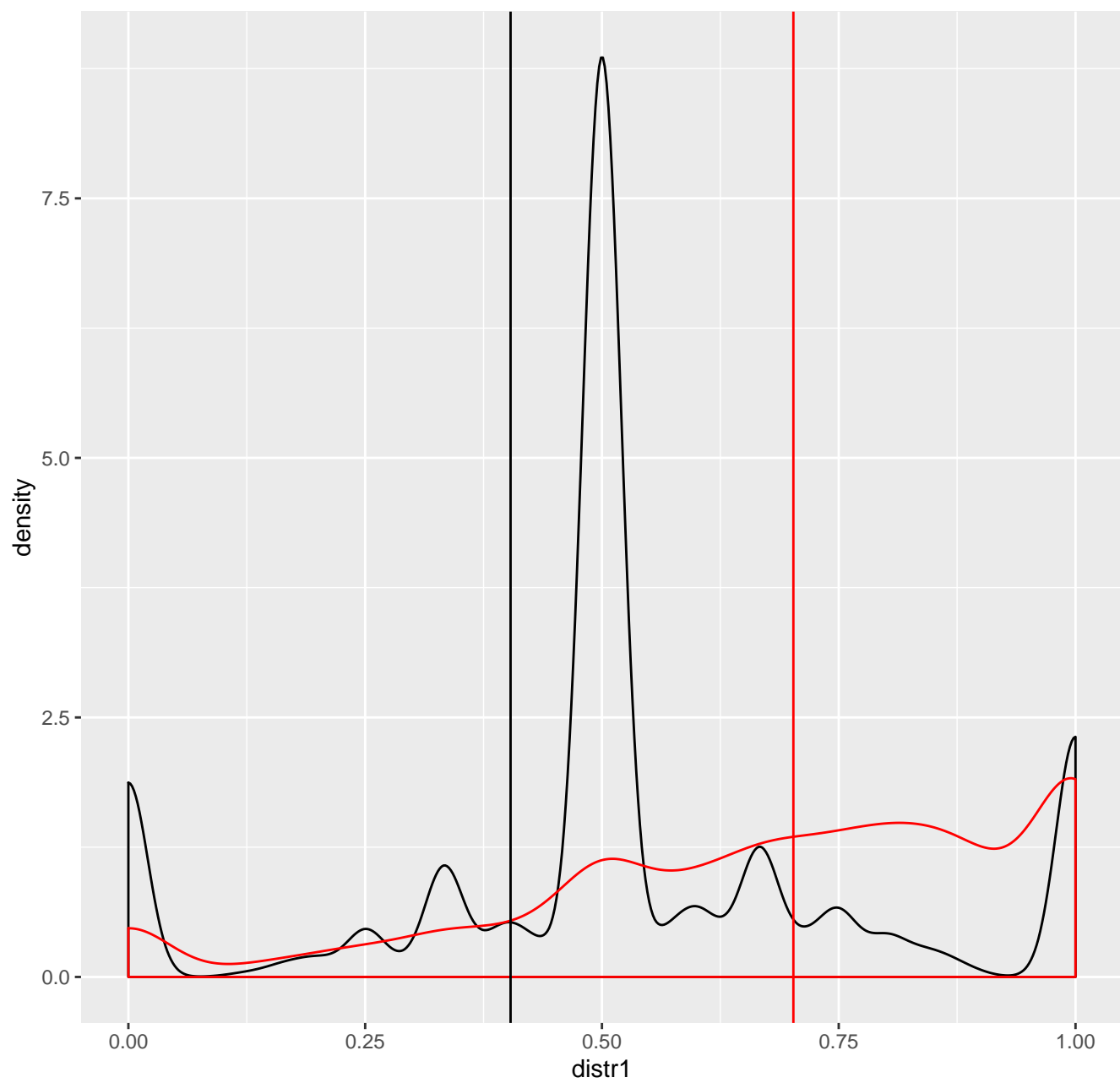
response distribution $X1|Y==1$



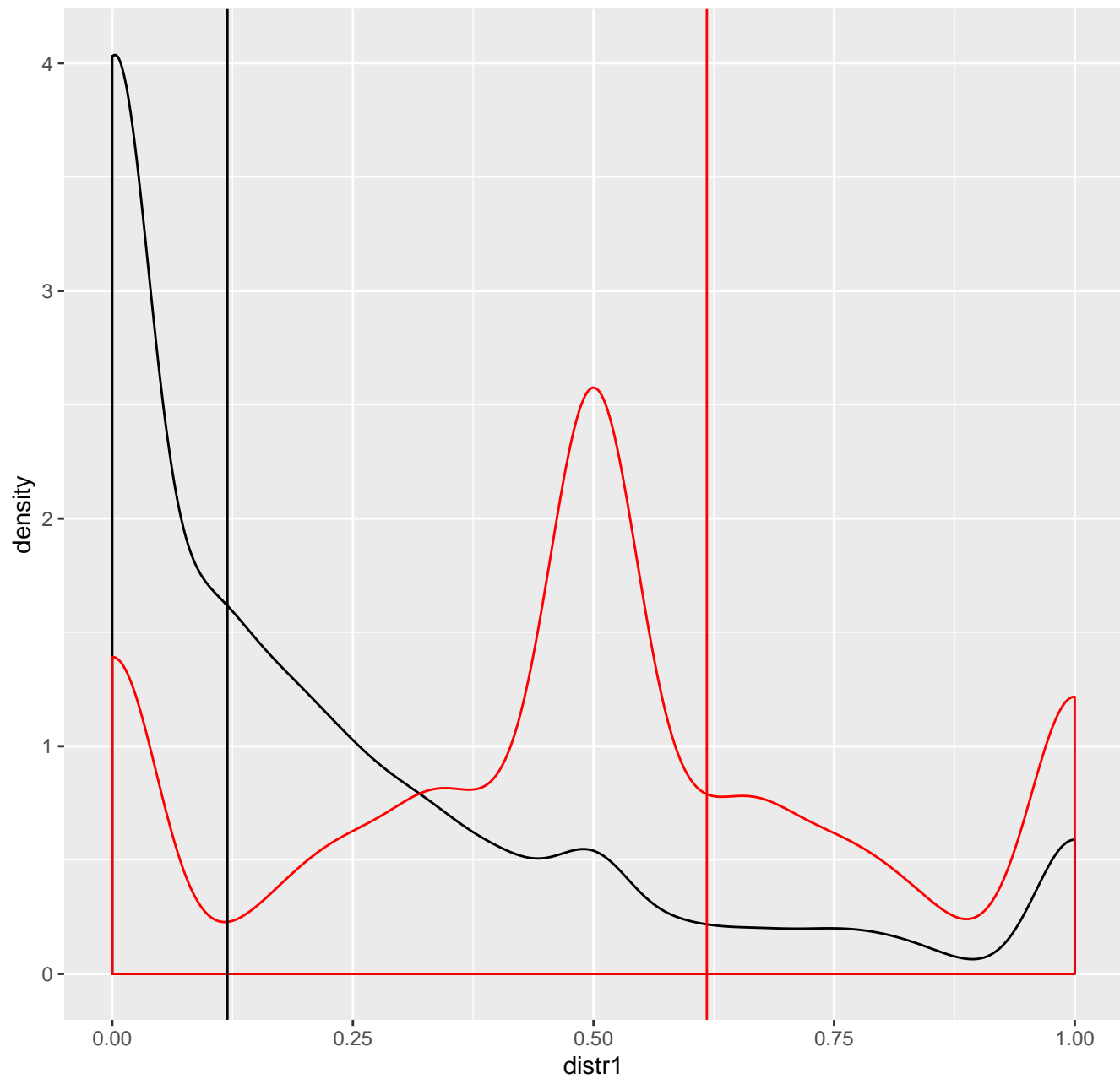
response distribution $X_1|Y==1$ & $X_2==0$



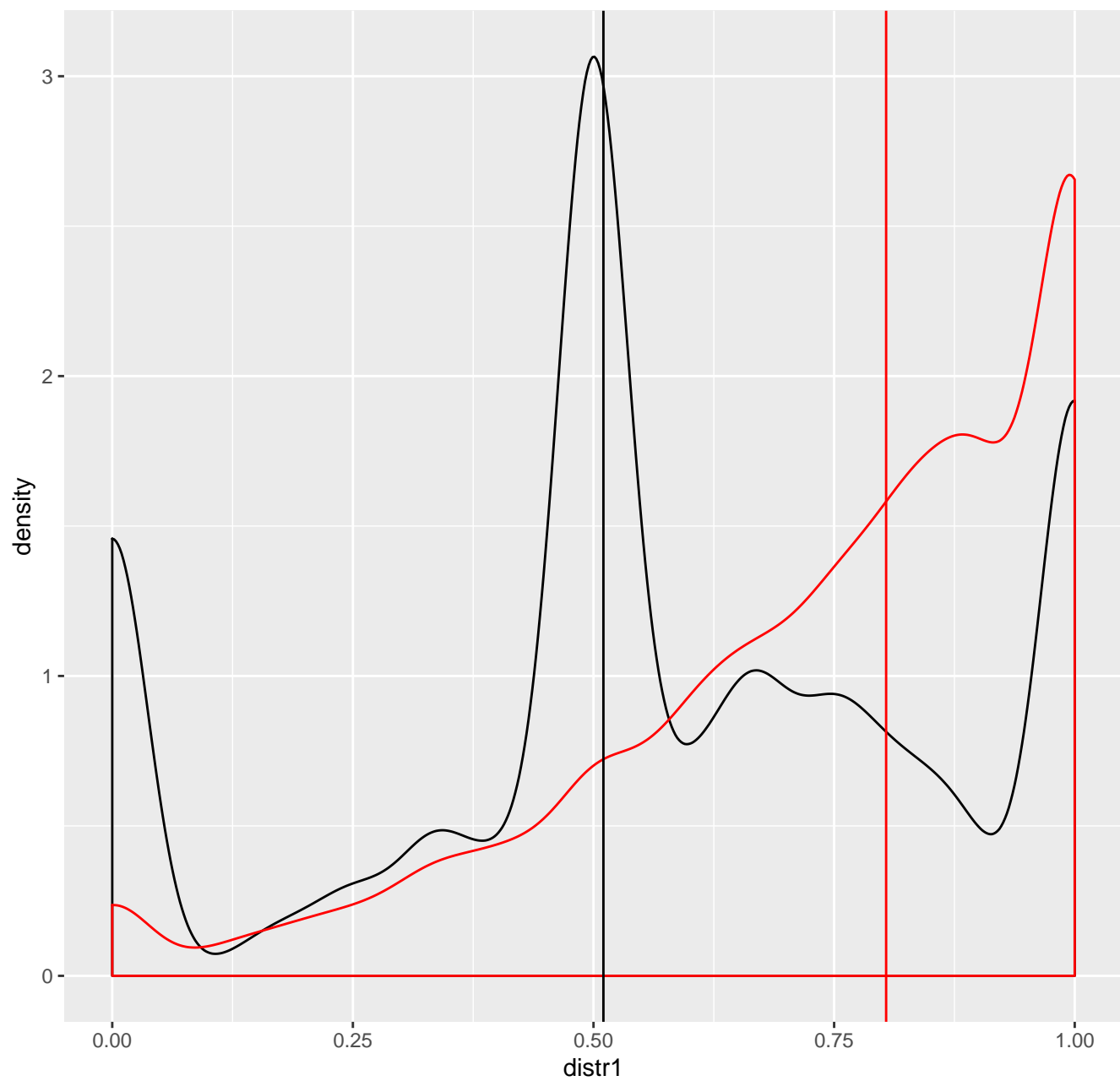
response distribution $X1|Y==1$ & $X2==1$



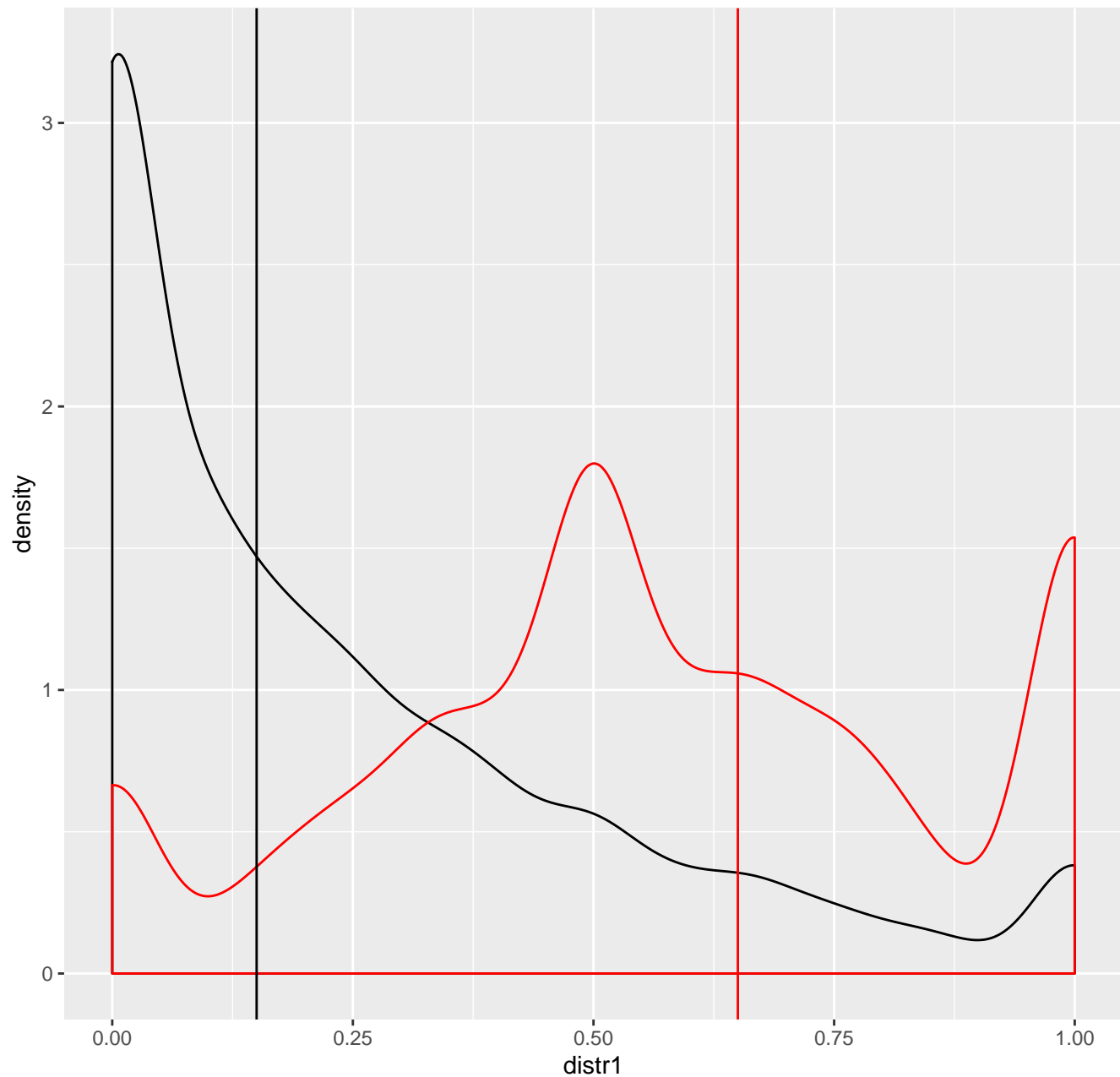
response distribution $Y|X_2==0$



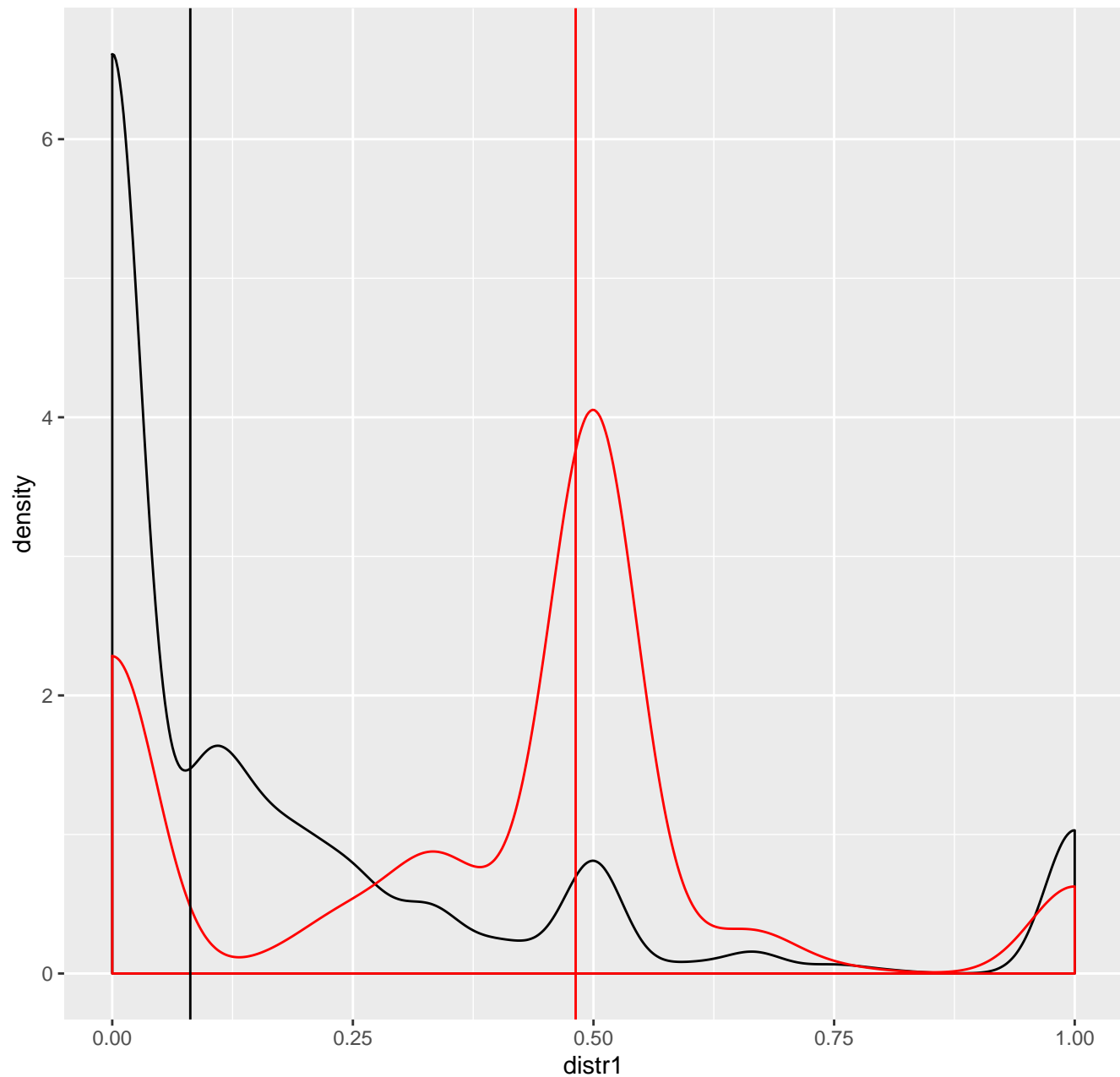
response distribution $Y|X_2==1$



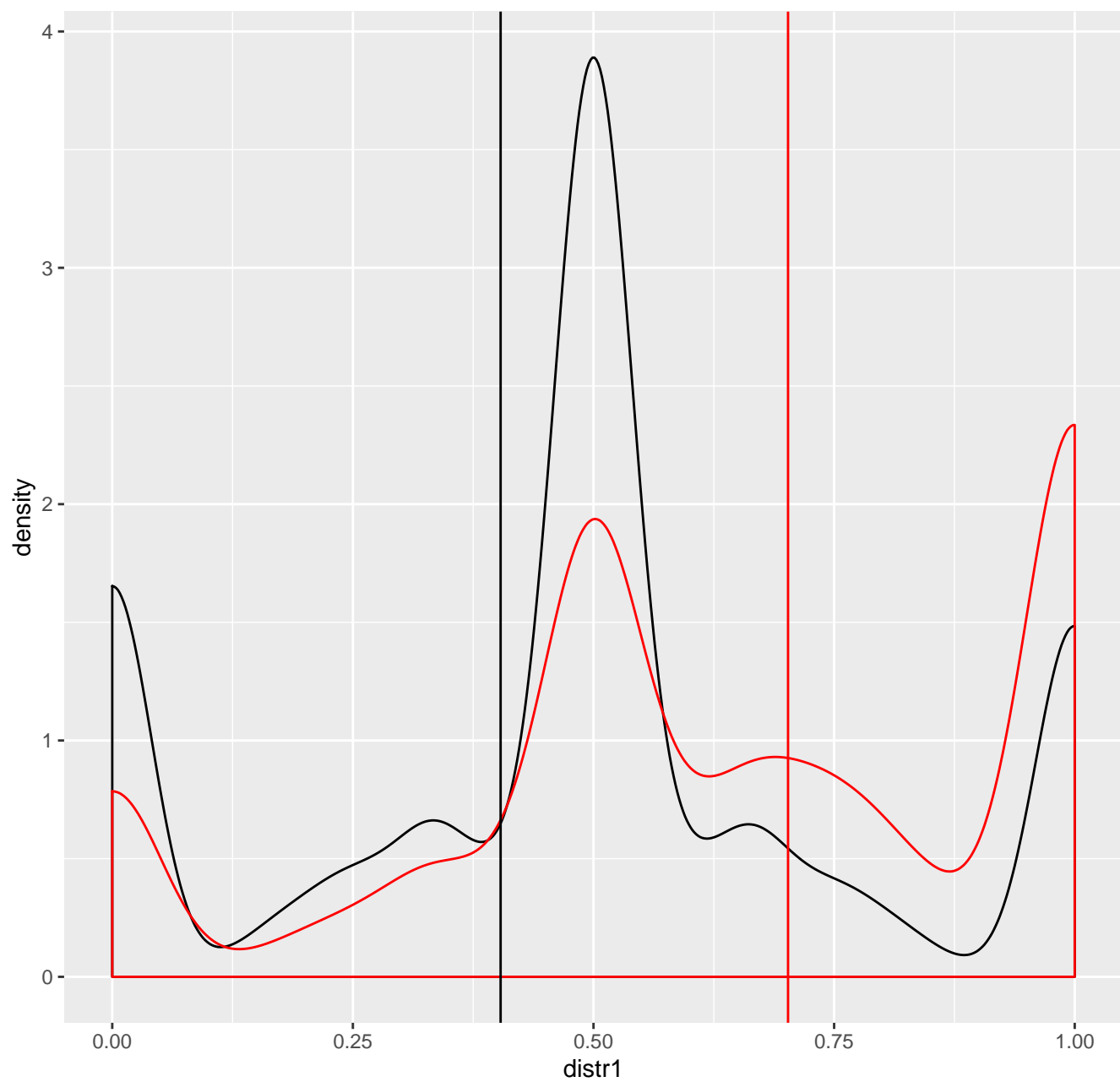
response distribution $Y|X1==0$



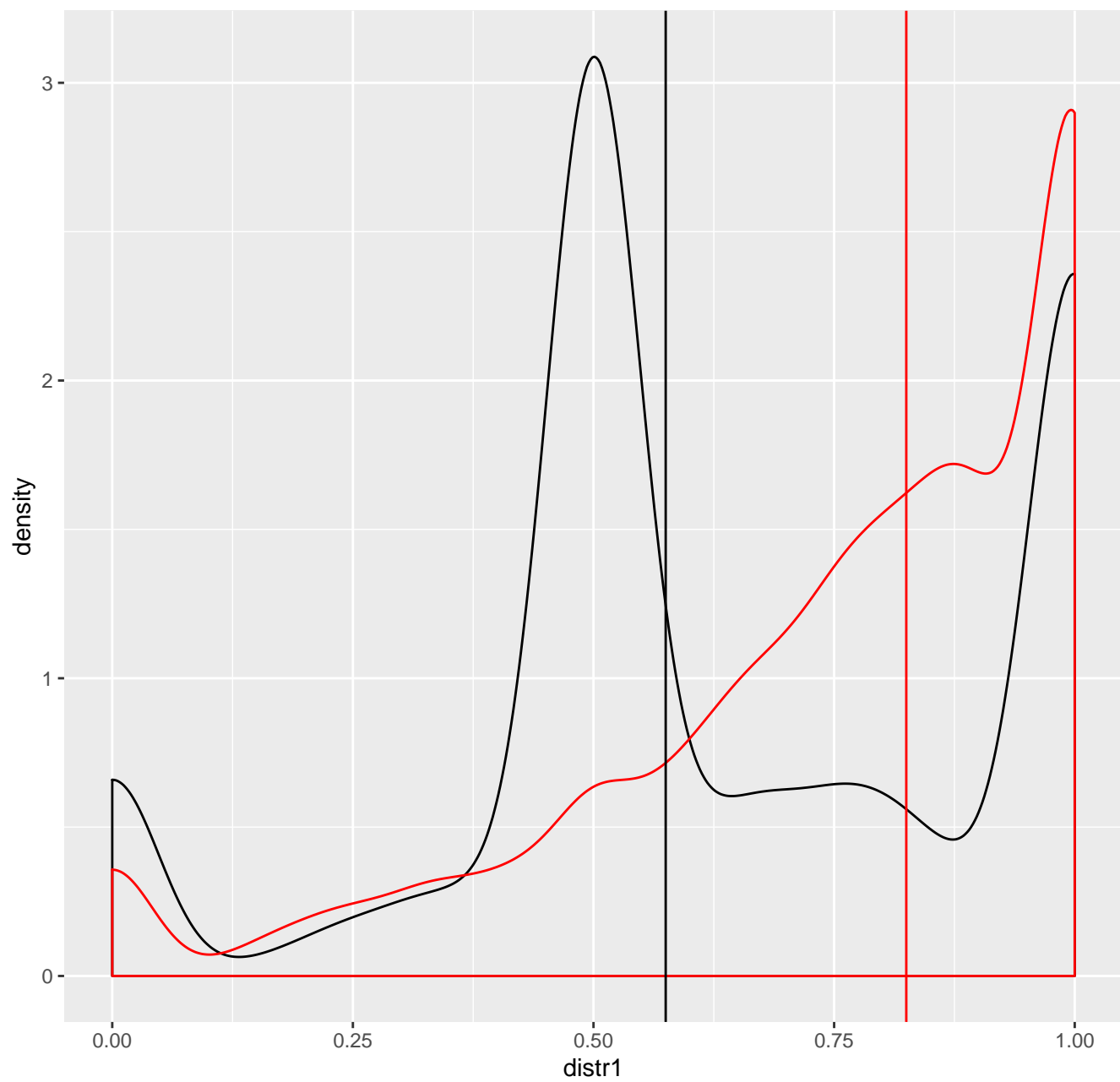
response distribution $Y|X_1==0$ & $X_2==0$



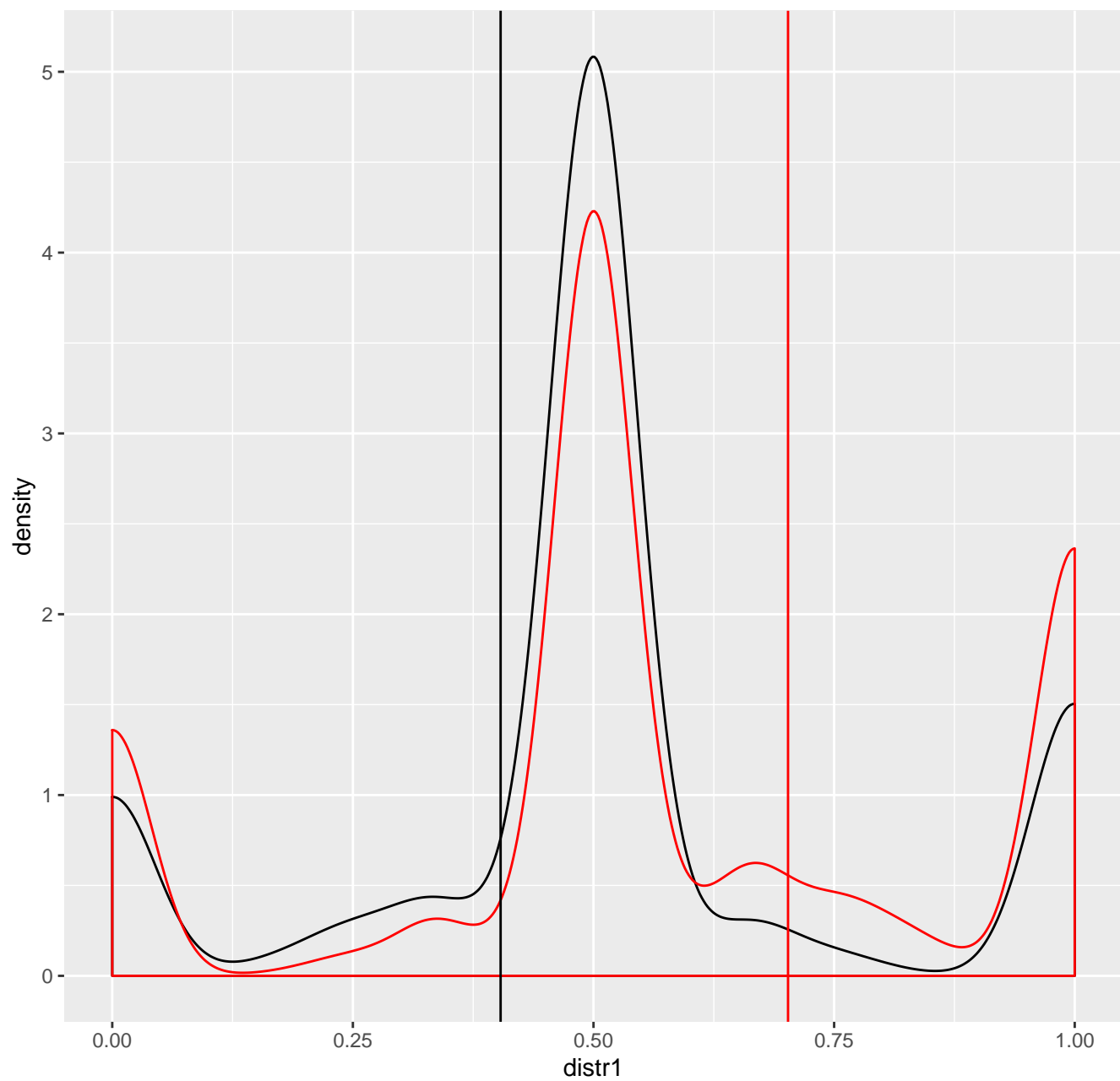
response distribution $Y|X_1==0$ & $X_2==1$



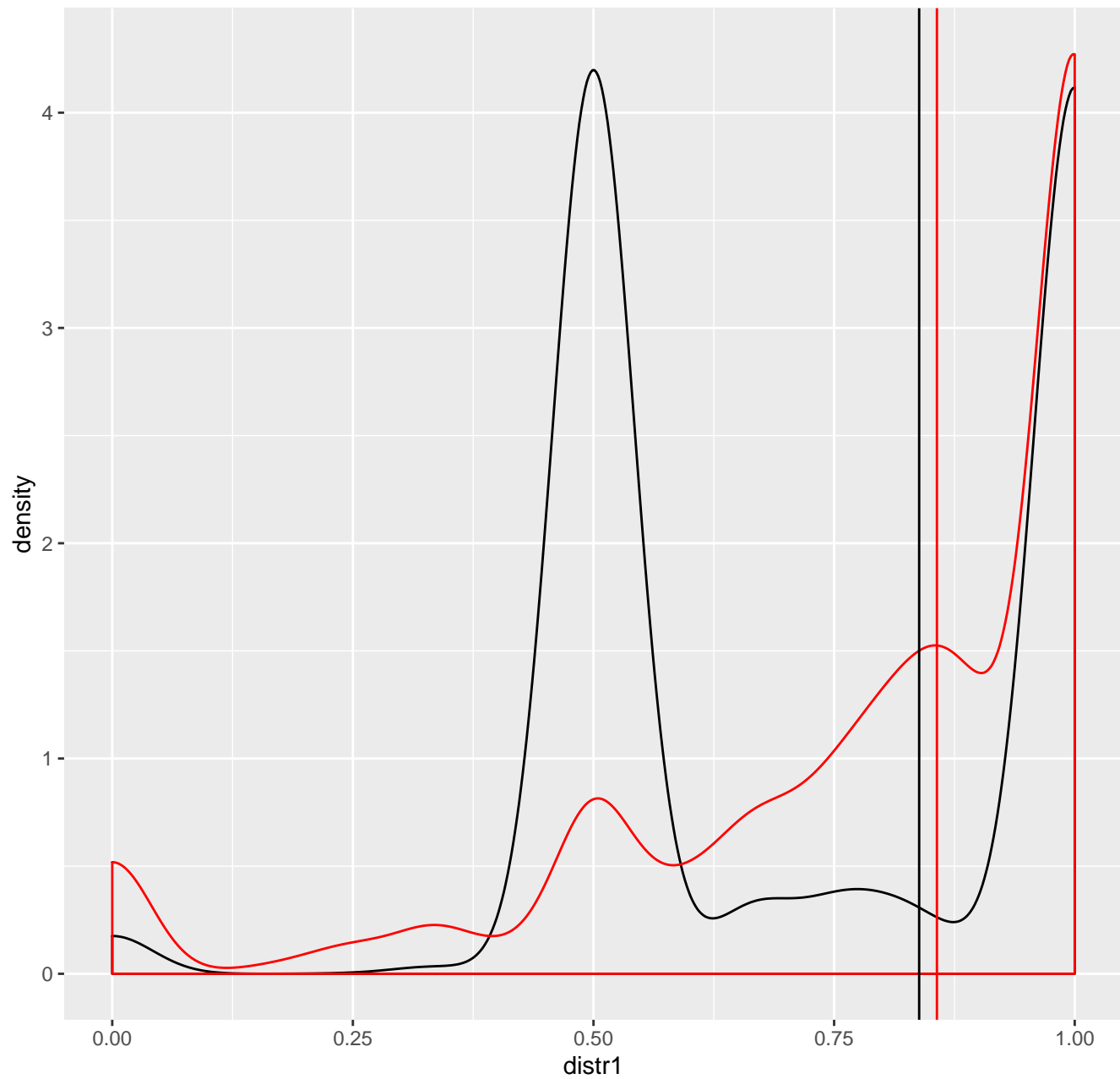
response distribution $Y|X1==1$



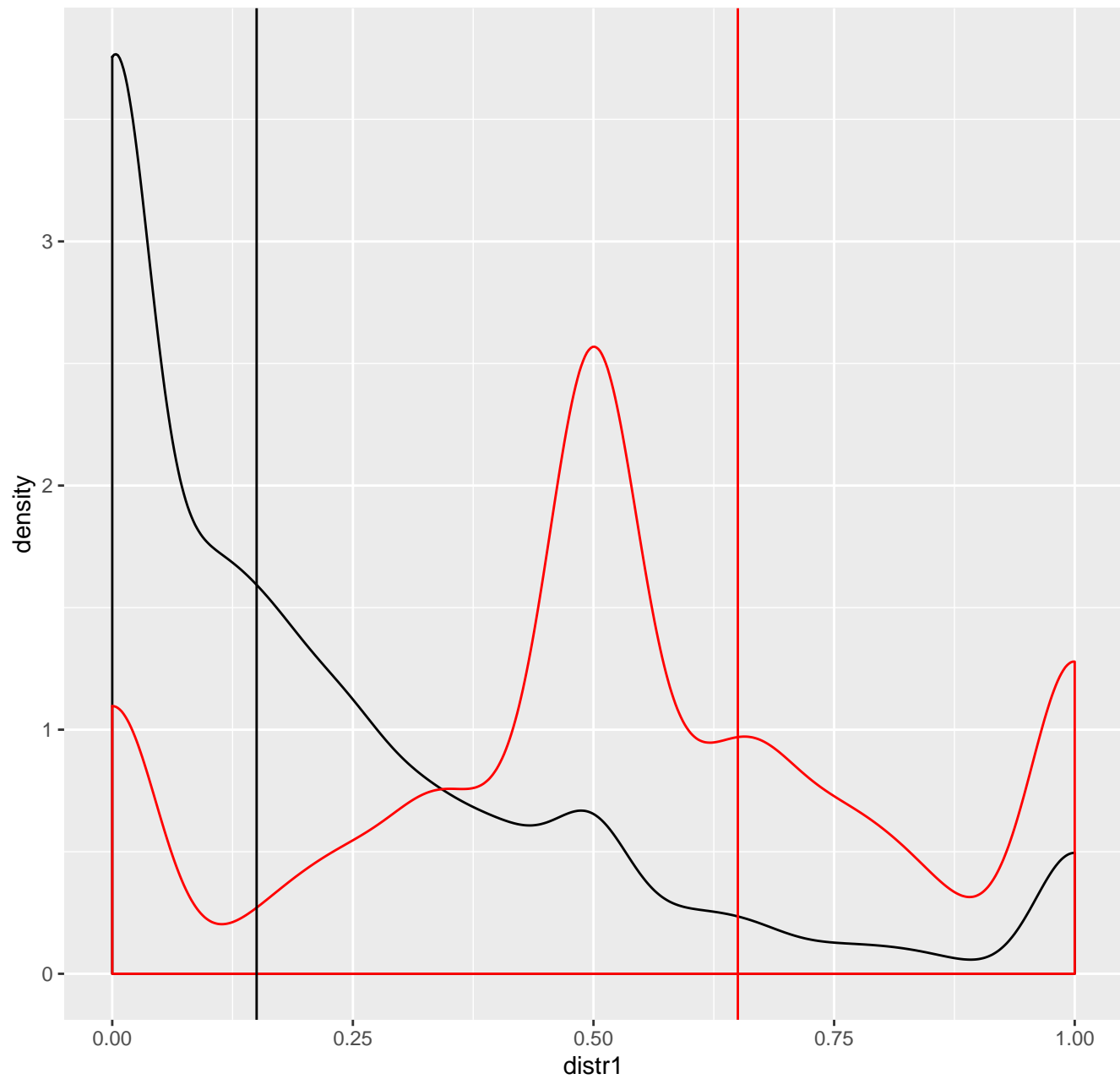
response distribution $Y|X_1==1 \text{ \& } X_2==0$



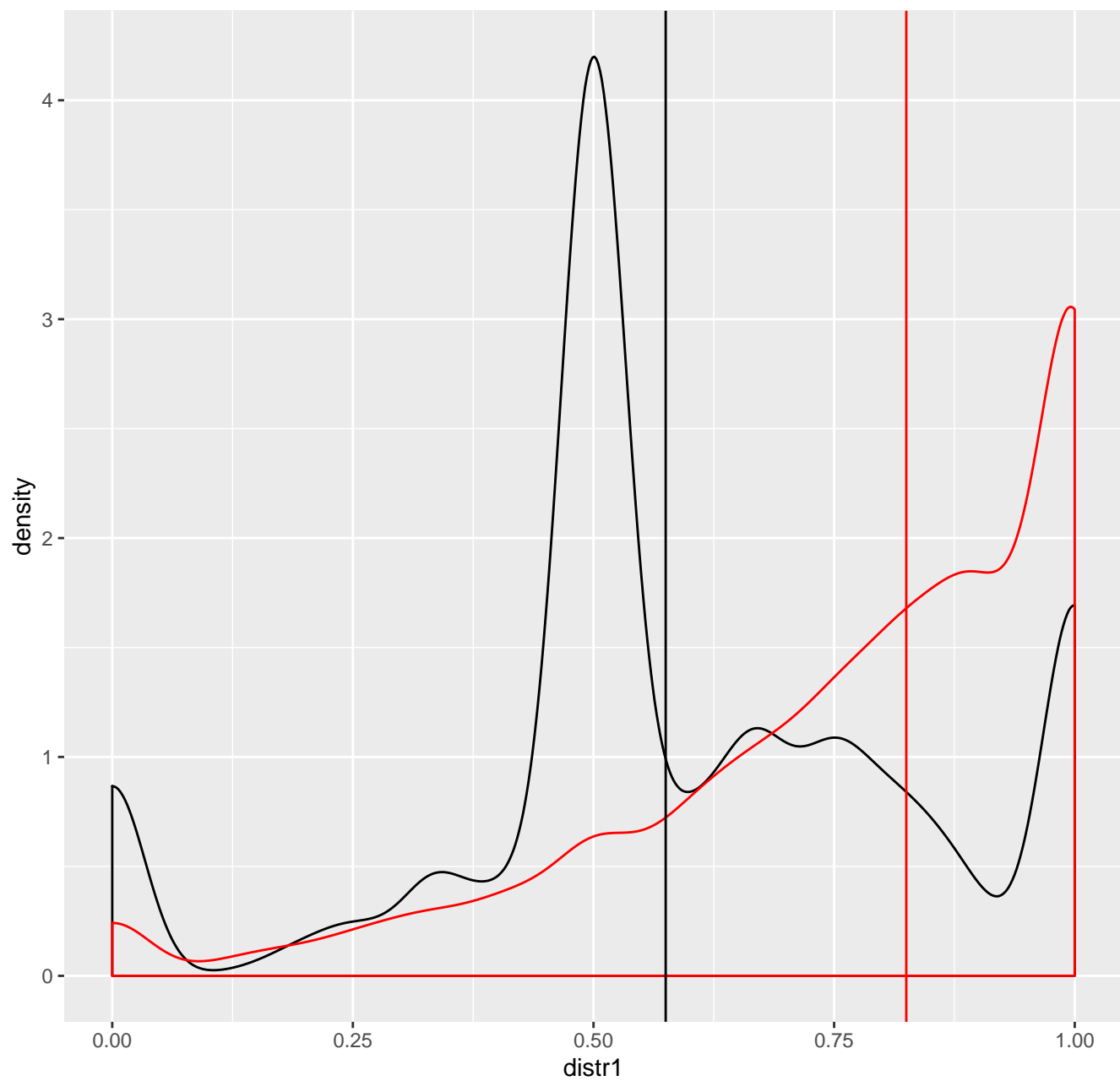
response distribution $Y|X1==1 \text{ \& } X2==1$



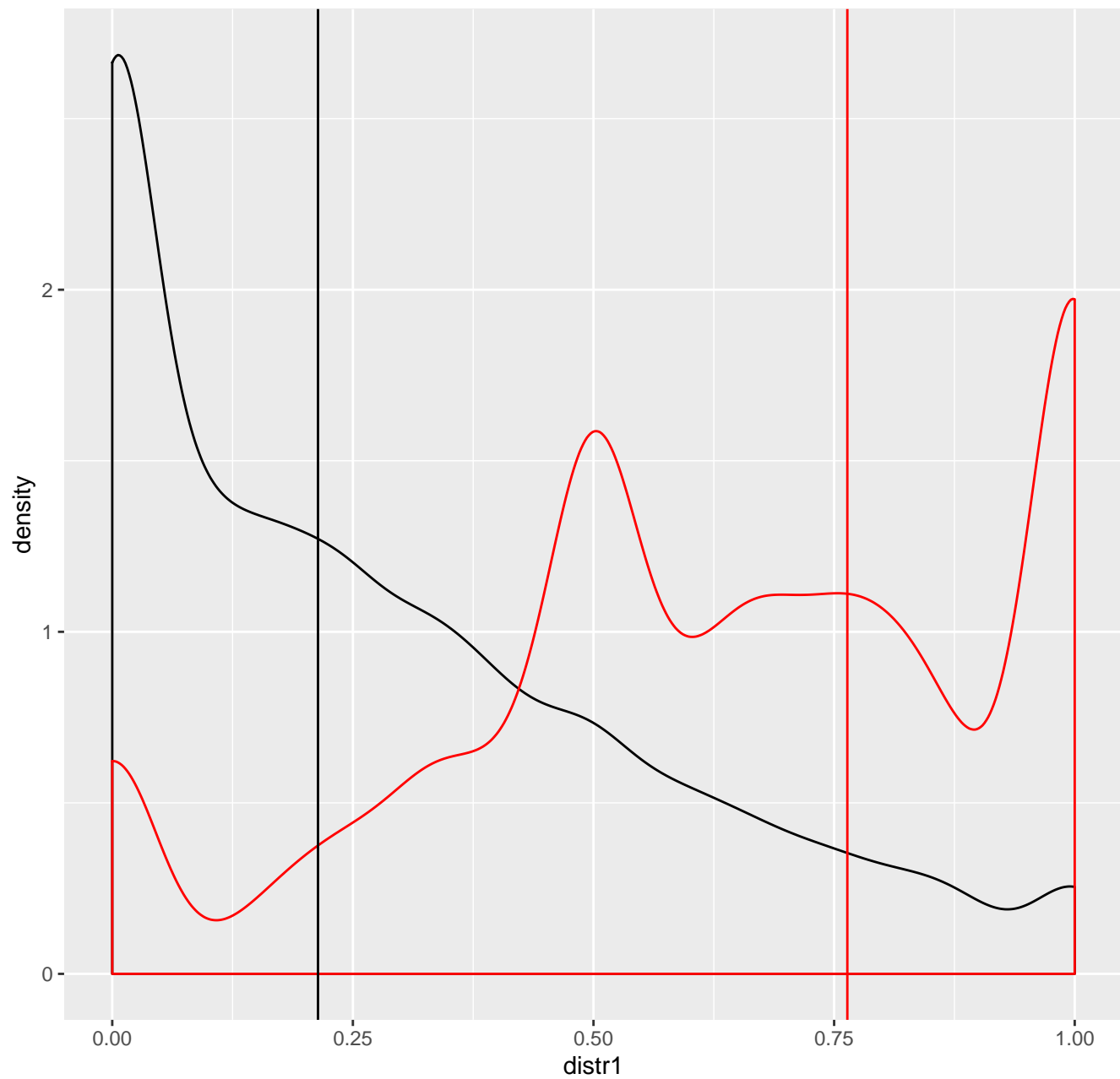
response distribution $X_2|Y==0$



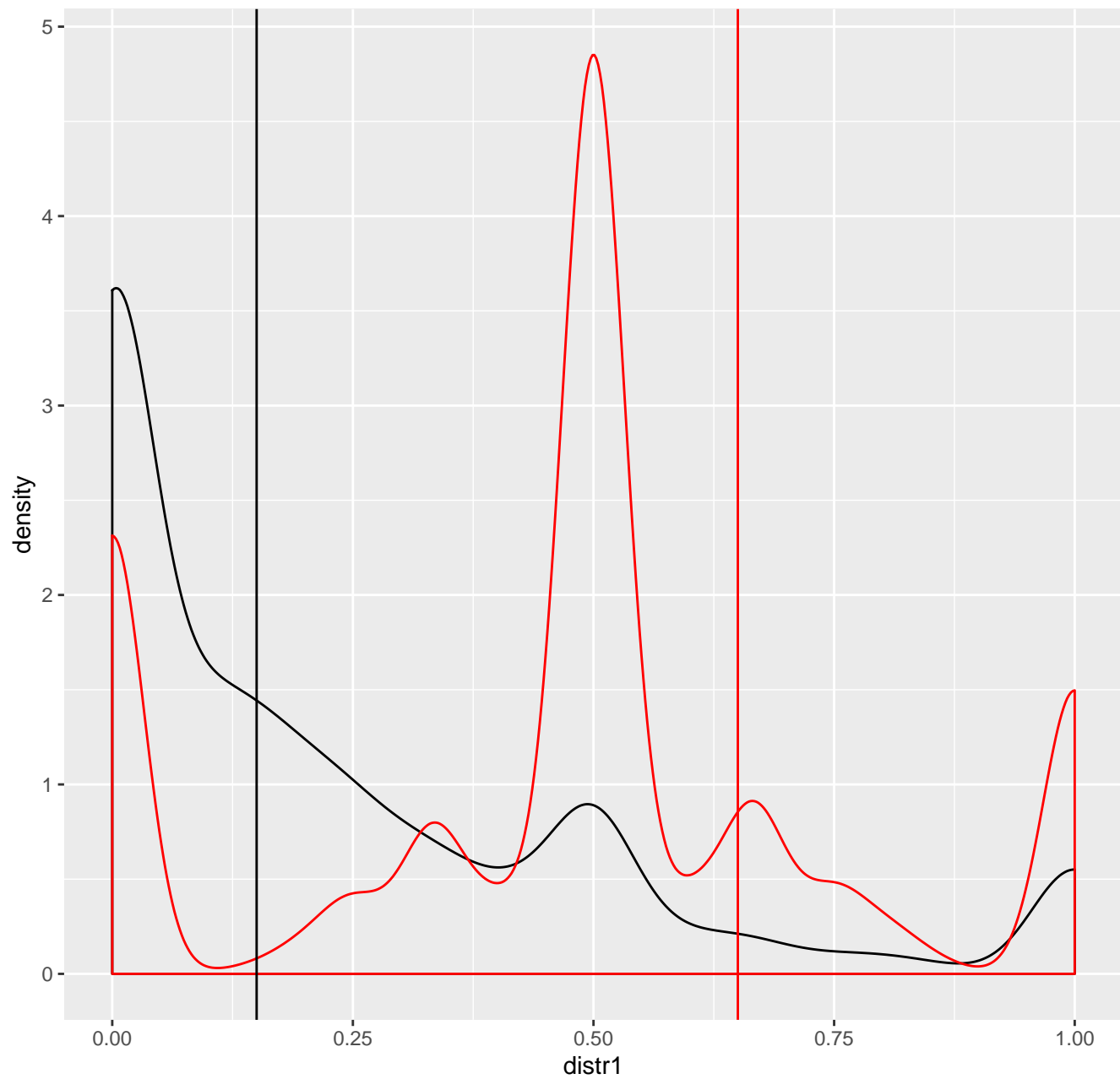
response distribution $X_2|Y==1$



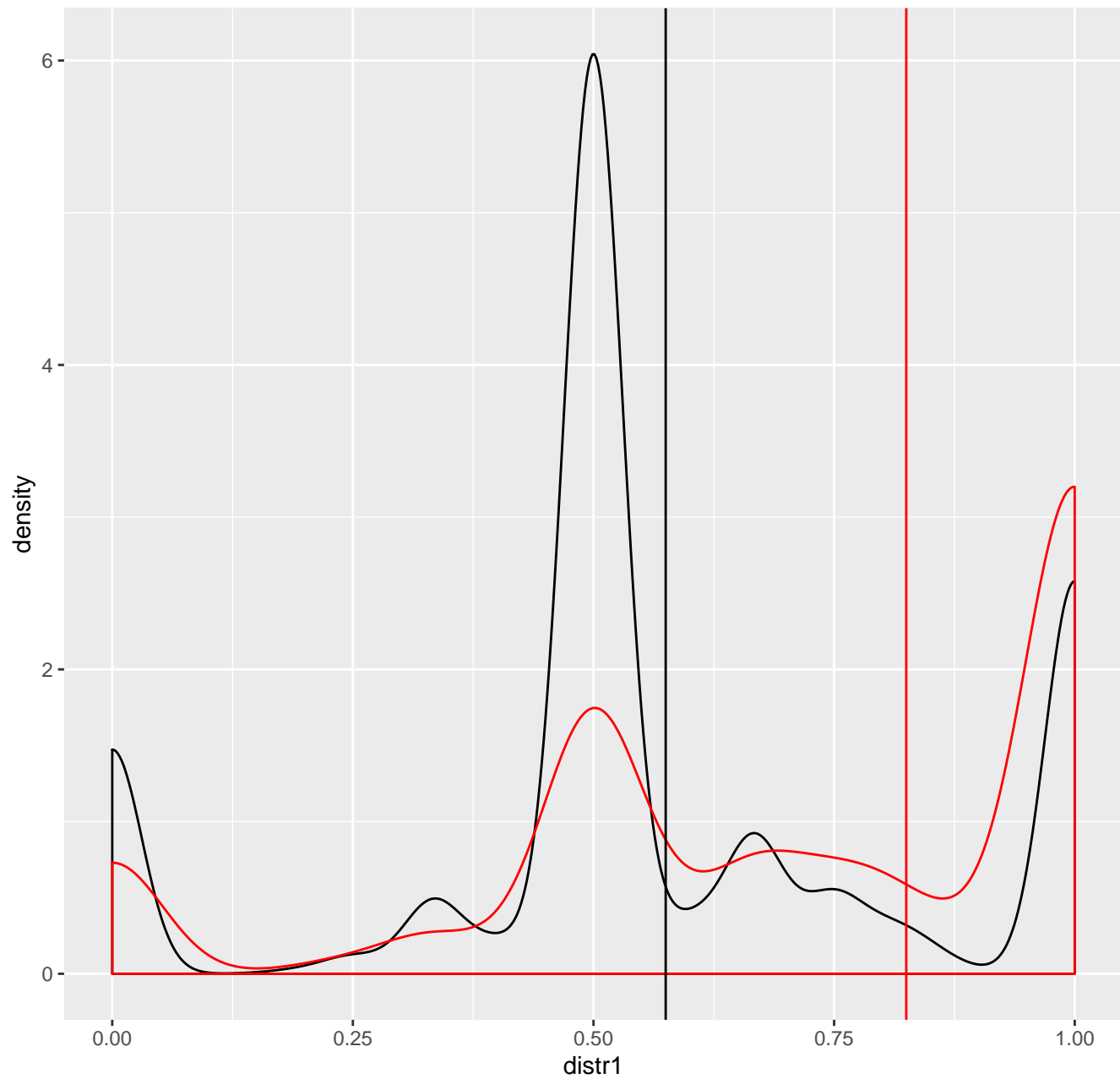
response distribution $X_2|X_1==0$



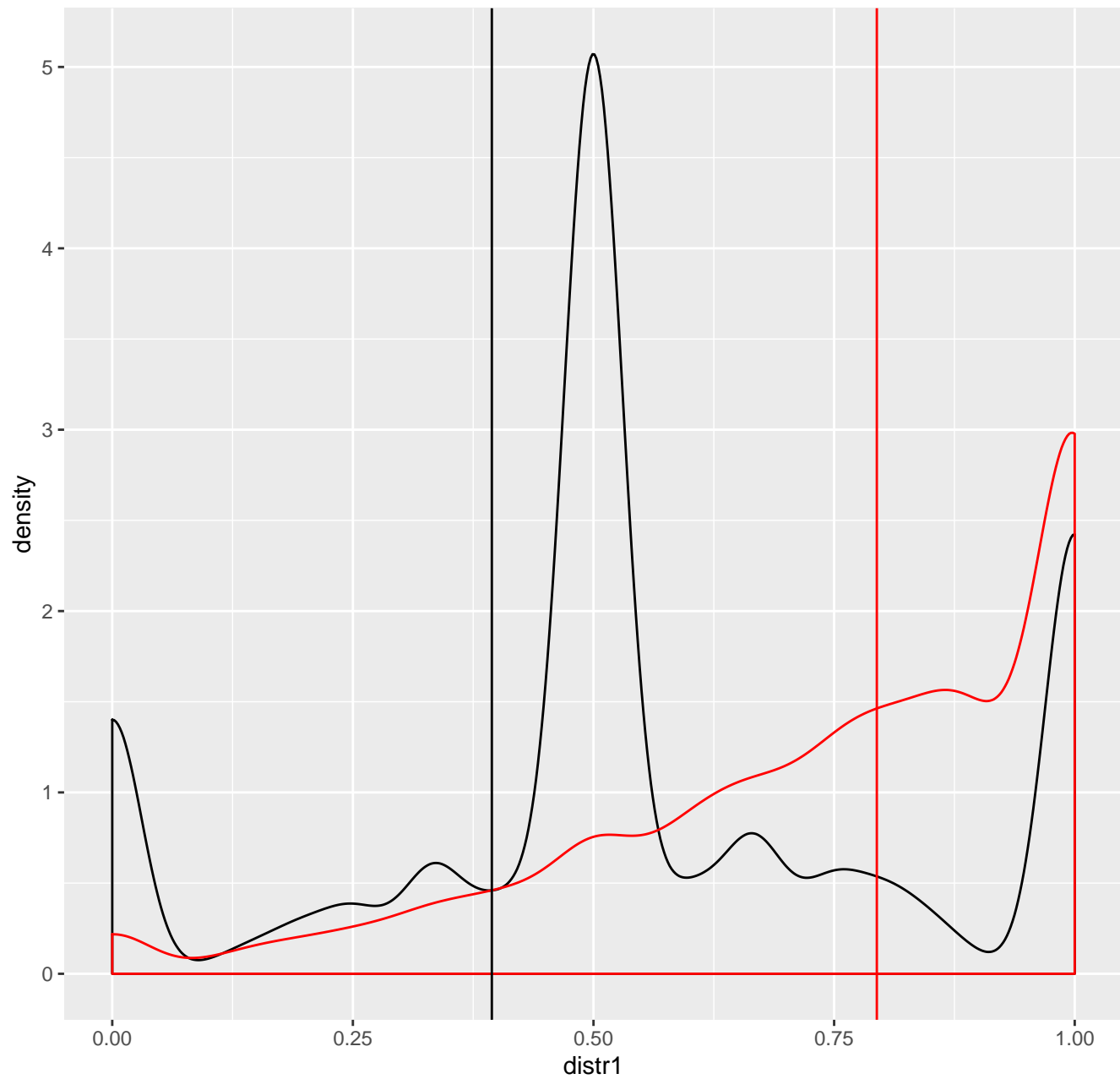
response distribution $X_2|Y==0$ & $X_1==0$



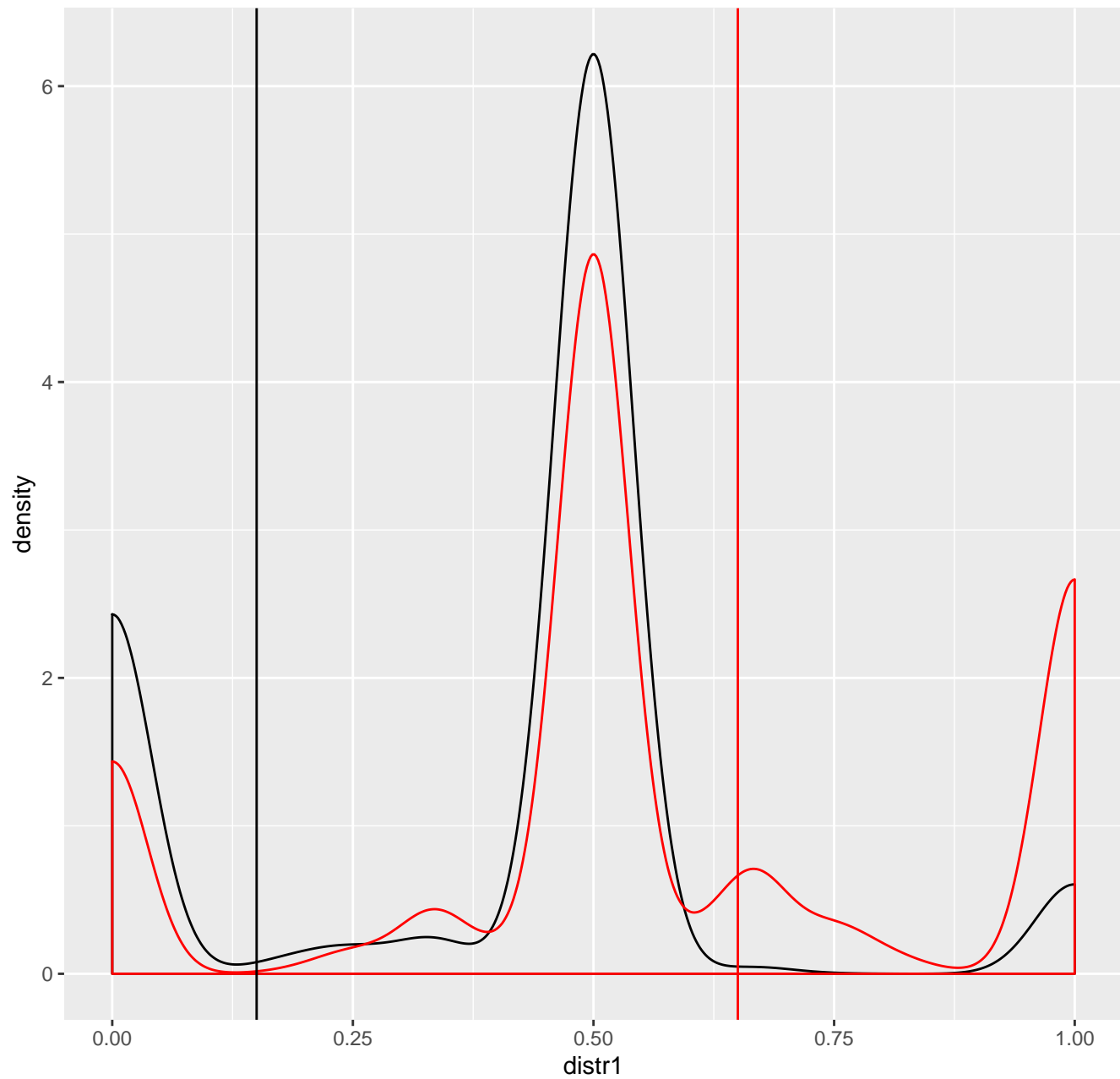
response distribution $X_2|Y==1 \text{ \& } X_1==0$



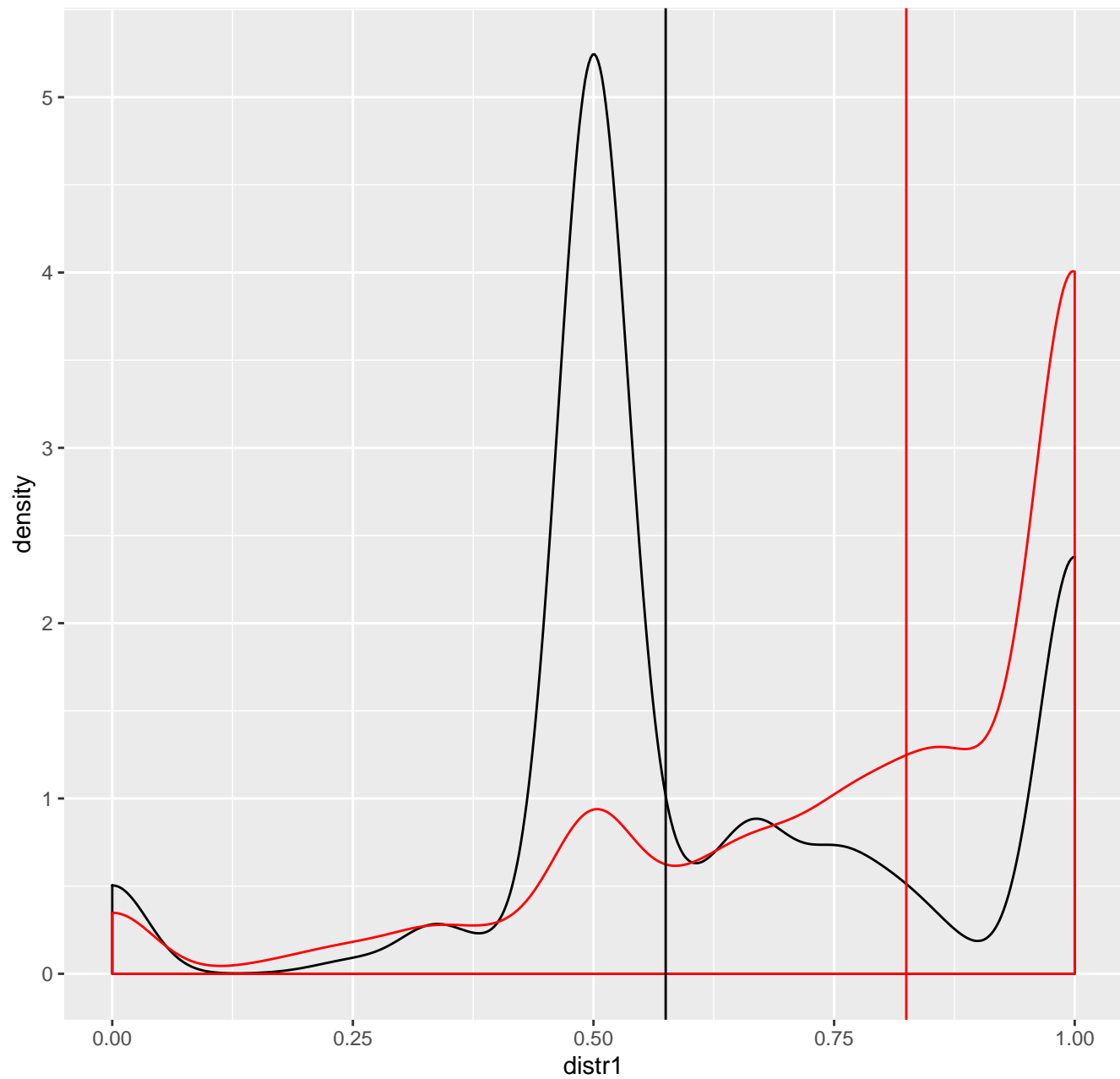
response distribution $X_2|X_1=1$



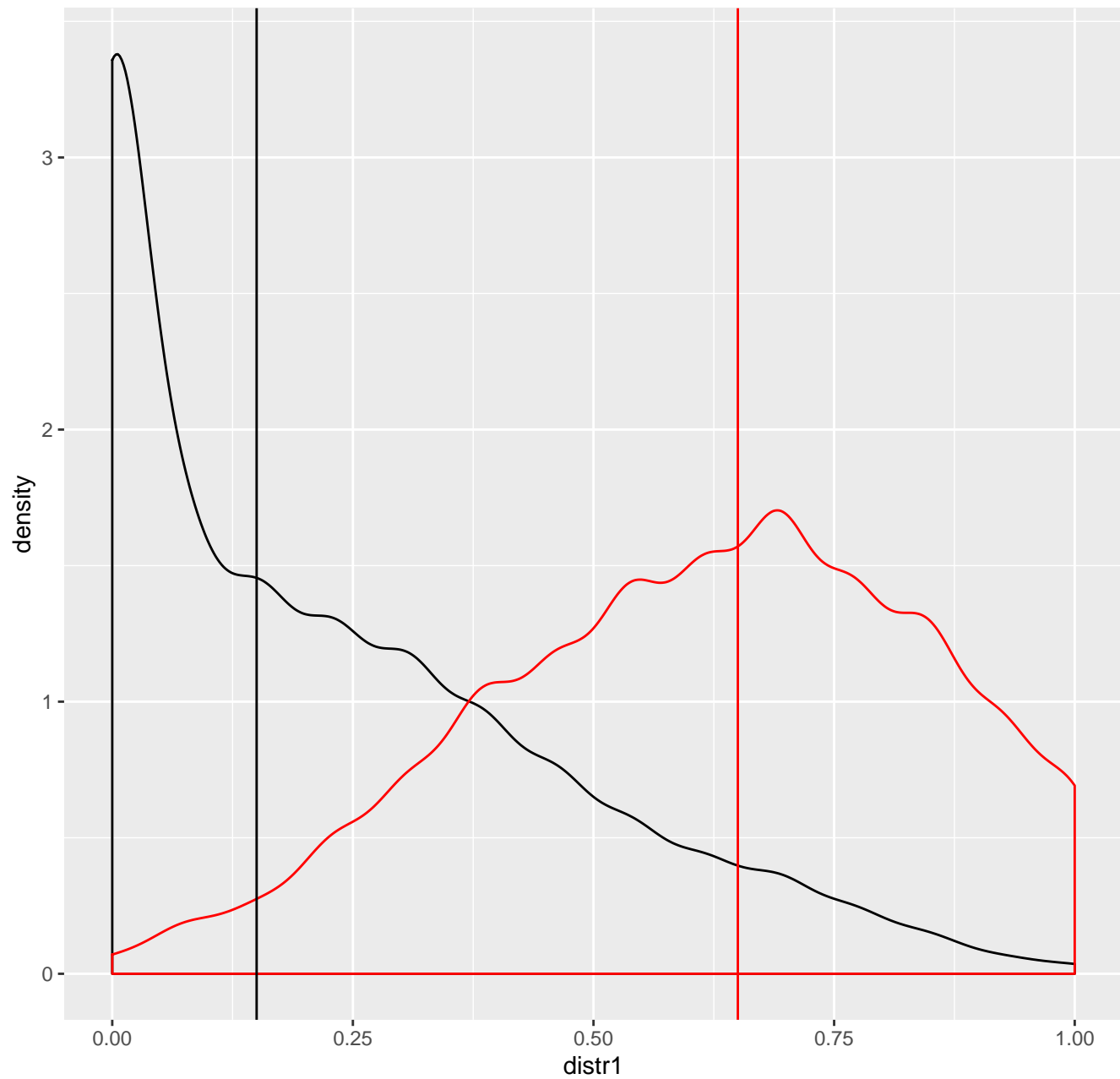
response distribution $X_2|Y==0$ & $X_1==1$



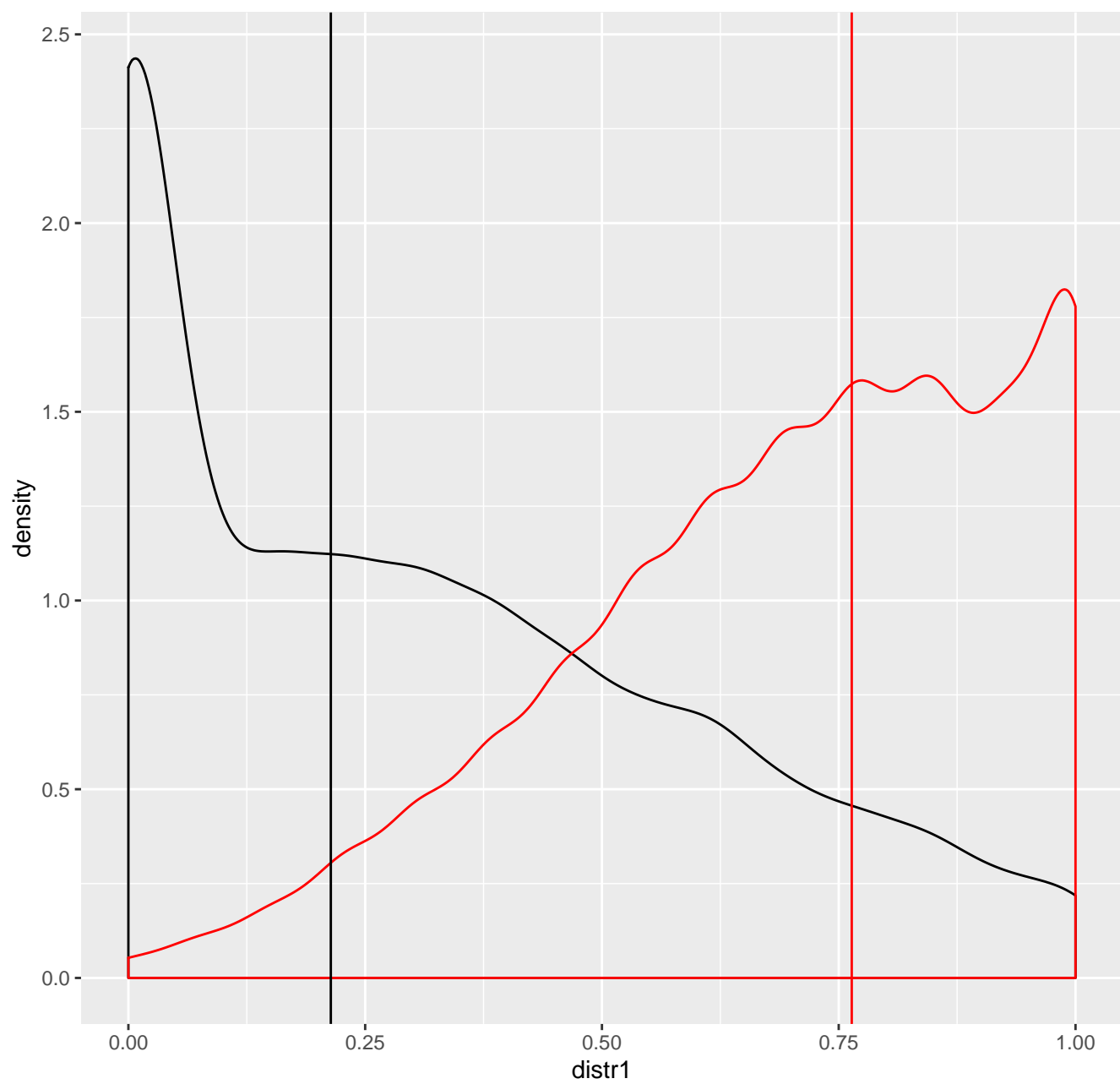
response distribution $X_2|Y==1 \text{ \& } X_1==1$



response distribution X1



response distribution Y



response distribution X2

