user_id	risk	gain	no_effect	experimental_treatment_selected	trial_index	batch	Risk_Beta	Gain_Beta	Interaction_Beta	Risk_sig	Gain_sig	Interaction_sig
L3dvhd7L: 75	Min. : 5.00	Min. : 5.00	Min. : 5.00	No to treatment : 0	Min. : 1.00	Min. :1.00	Min. :0.0000	Min. :0.000e+00	Min. : 0.3506	Min. :0.0000	Min. :0.0000	Min. :0.0000
ZAtx6CUR: 73	1st Qu.:15.00	1st Qu.:20.00	1st Qu.:10.00	Yes to treatment:1864	1st Qu.:20.00	1st Qu.:1.00	1st Qu.:0.7894	1st Qu.:1.000e+00	1st Qu.: 0.9945	1st Qu.:0.0000	1st Qu.:0.0000	1st Qu.:0.0000
0DeJj31H: 73	Median :30.00	Median :35.00	Median :25.00	NA	Median :38.00	Median :1.00	Median :0.9318	Median :1.000e+00	Median : 0.9995	Median :0.0000	Median :0.0000	Median :0.0000
FcP5oD0l: 67	Mean :34.52	Mean :37.15	Mean :28.33	NA	Mean :38.25	Mean :1.38	Mean :0.8249	Mean :3.314e+63	Mean : 1.1318	Mean :0.3643	Mean :0.2382	Mean :0.1609
19x3QrYn: 65	3rd Qu.:50.00	3rd Qu.:55.00	3rd Qu.:40.00	NA	3rd Qu.:56.00	3rd Qu.:2.00	3rd Qu.:0.9956	3rd Qu.:1.000e+00	3rd Qu.: 1.0009	3rd Qu.:1.0000	3rd Qu.:0.0000	3rd Qu.:0.0000
M8TKy4LM: 61	Max. :90.00	Max. :90.00	Max. :90.00	NA	Max. :75.00	Max. :2.00	Max. :1.1721	Max. :1.029e+66	Max. :50.4762	Max. :1.0000	Max. :1.0000	Max. :1.0000
(Other) :1450	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

user_id	risk	gain	no_effect	experimental_treatment_selected	trial_index	batch	Risk_Beta	Gain_Beta	Interaction_Beta	Risk_sig	Gain_sig	Interaction_sig
EwD7E15U: 75	Min. : 5.00	Min. : 5.0	Min. : 5.00	No to treatment : 0	Min. : 1.00	Min. :3	Min. :0.0000787	Min. : 0.977	Min. :0.8512	Min. :0.000	Min. :0.0000	Min. :0.0000
FWwq7fwS: 55	1st Qu.:10.00	1st Qu.:25.0	1st Qu.:15.00	Yes to treatment:1085	1st Qu.:18.00	1st Qu.:3	1st Qu.:0.8558864	1st Qu.: 1.017	1st Qu.:0.9995	1st Qu.:0.000	1st Qu.:0.0000	1st Qu.:0.0000
Nvl3nsVX: 49	Median :25.00	Median :40.0	Median :25.00	NA	Median :37.00	Median :3	Median :0.9327803	Median : 1.047	Median :1.0008	Median :0.000	Median :0.0000	Median :0.0000
cik7HP08: 48	Mean :27.98	Mean :40.9	Mean :31.12	NA	Mean :37.28	Mean :3	Mean :0.8527839	Mean : 467.358	Mean :0.9956	Mean :0.435	Mean :0.4203	Mean :0.1207
2n0R4z0W: 47	3rd Qu.:40.00	3rd Qu.:55.0	3rd Qu.:45.00	NA	3rd Qu.:57.00	3rd Qu.:3	3rd Qu.:0.9934141	3rd Qu.: 1.273	3rd Qu.:1.0023	3rd Qu.:1.000	3rd Qu.:1.0000	3rd Qu.:0.0000
vzUFtYv8: 47	Max. :70.00	Max. :90.0	Max. :90.00	NA	Max. :75.00	Max. :3	Max. :1.0269363	Max. :12327.854	Max. :1.0145	Max. :1.000	Max. :1.0000	Max. :1.0000
(Other) :764	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

user_id	risk	gain	no_effect	experimental_treatment_selected	trial_index	batch	Risk_Beta	Gain_Beta	Interaction_Beta	Risk_sig	Gain_sig	Interaction_sig
dxBvcmIX: 75	Min. : 5.00	Min. : 5.00	Min. : 5.00	No to treatment : 0	Min. : 1.00	Min. :4	Min. :0.7661	Min. :0.9496	Min. :0.9912	Min. :0.0000	Min. :0.00	Min. :0.00000
rhvhqMRJ: 75	1st Qu.:15.00	1st Qu.:20.00	1st Qu.:15.00	Yes to treatment:1811	1st Qu.:19.00	1st Qu.:4	1st Qu.:0.9746	1st Qu.:1.0029	1st Qu.:0.9995	1st Qu.:0.0000	1st Qu.:0.00	1st Qu.:0.00000
U3lXYIXx: 73	Median :30.00	Median :35.00	Median :25.00	NA	Median :37.00	Median :4	Median :0.9873	Median :1.0158	Median :1.0003	Median :0.0000	Median :0.00	Median :0.00000
zEvRSa7v: 73	Mean :32.62	Mean :36.54	Mean :30.84	NA	Mean :37.66	Mean :4	Mean :0.9768	Mean :1.0302	Mean :0.9999	Mean :0.1049	Mean :0.18	Mean :0.02927
GfGYC6a7: 59	3rd Qu.:50.00	3rd Qu.:50.00	3rd Qu.:45.00	NA	3rd Qu.:56.00	3rd Qu.:4	3rd Qu.:1.0000	3rd Qu.:1.0358	3rd Qu.:1.0007	3rd Qu.:0.0000	3rd Qu.:0.00	3rd Qu.:0.00000
ypnkTKUq: 46	Max. :70.00	Max. :90.00	Max. :90.00	NA	Max. :75.00	Max. :4	Max. :1.0234	Max. :1.3319	Max. :1.0040	Max. :1.0000	Max. :1.00	Max. :1.00000
(Other) :1410	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

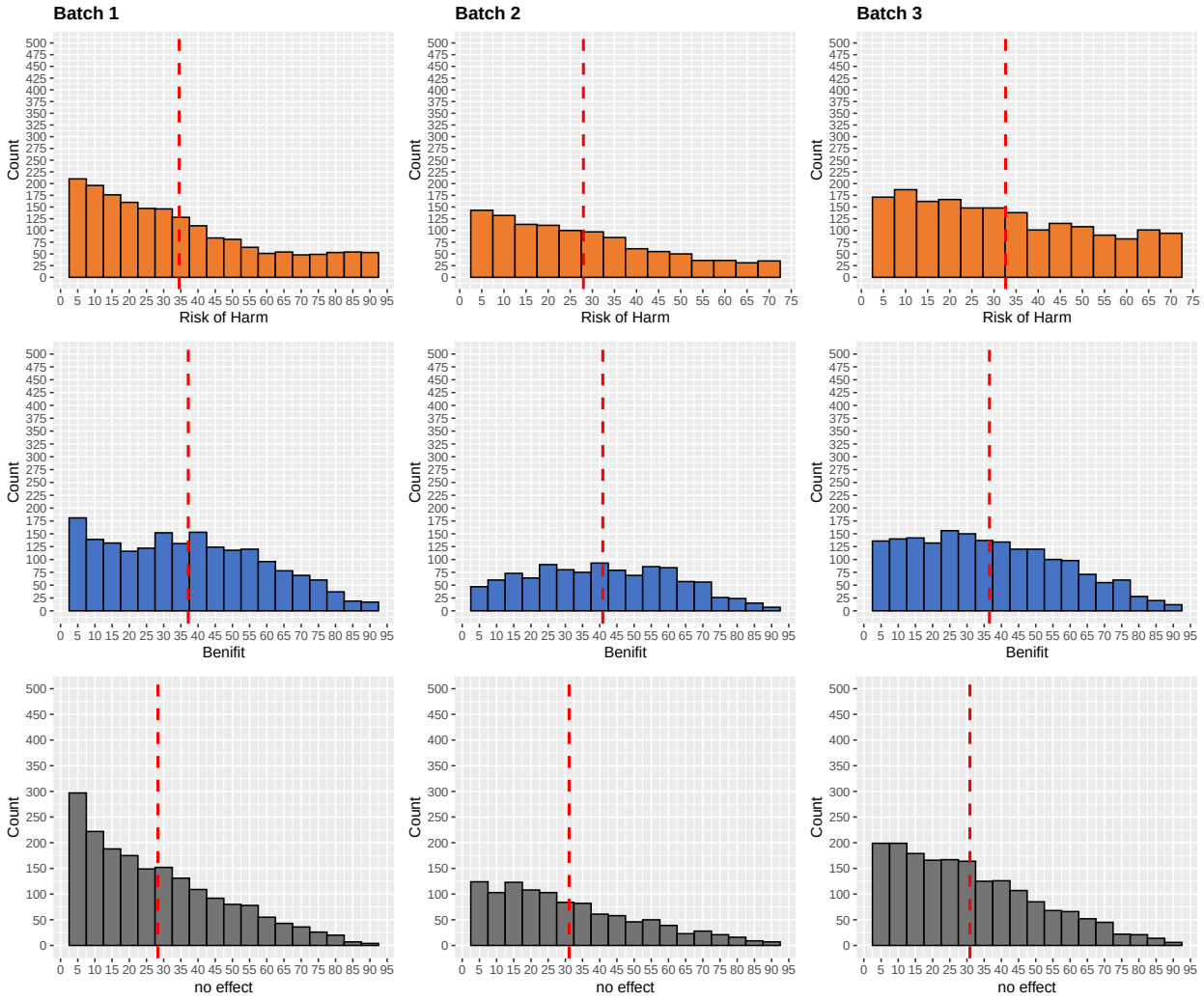
Batch 1 is our data prior to the 70 cut off **(67 subjects)**

Batch 2 is our first data set post the 70 cut off **(34 subjects)**

Batch 3 is our data set post deployment **(61 subjects)**

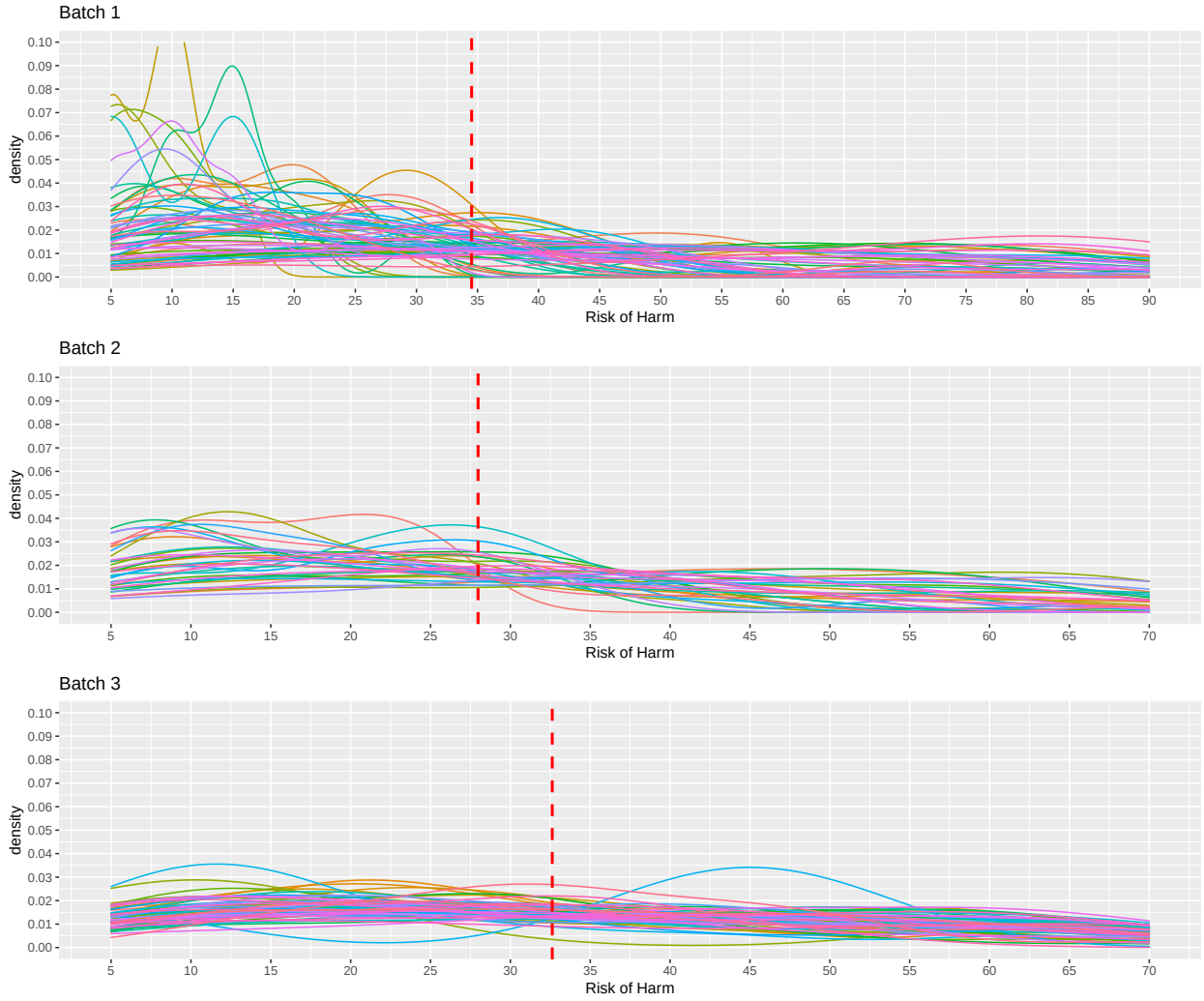
Here at side by side comparaisons of the 1st batch 2nd and 3rd batch total trial distributions.

```
grid.arrange(p1,p2,p3,p4,p5,p6,p7,p8,p9, ncol = 3)
```

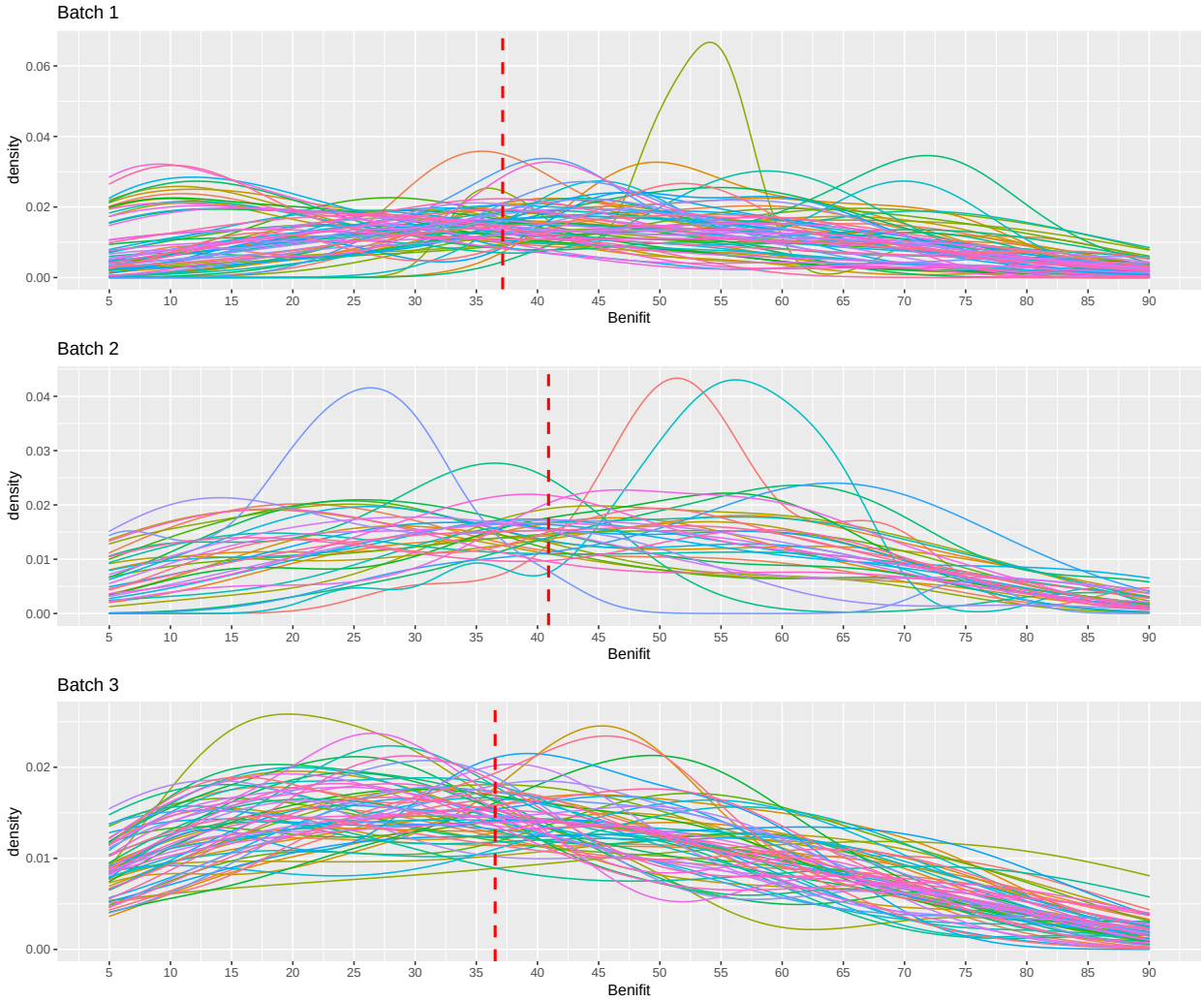


The x axis represents the probability that the cognitive deficit either has risk(orange), gain (blue), and no effect (grey) and our Y axis is the total count of observations where an expriemental treatment was chosen.

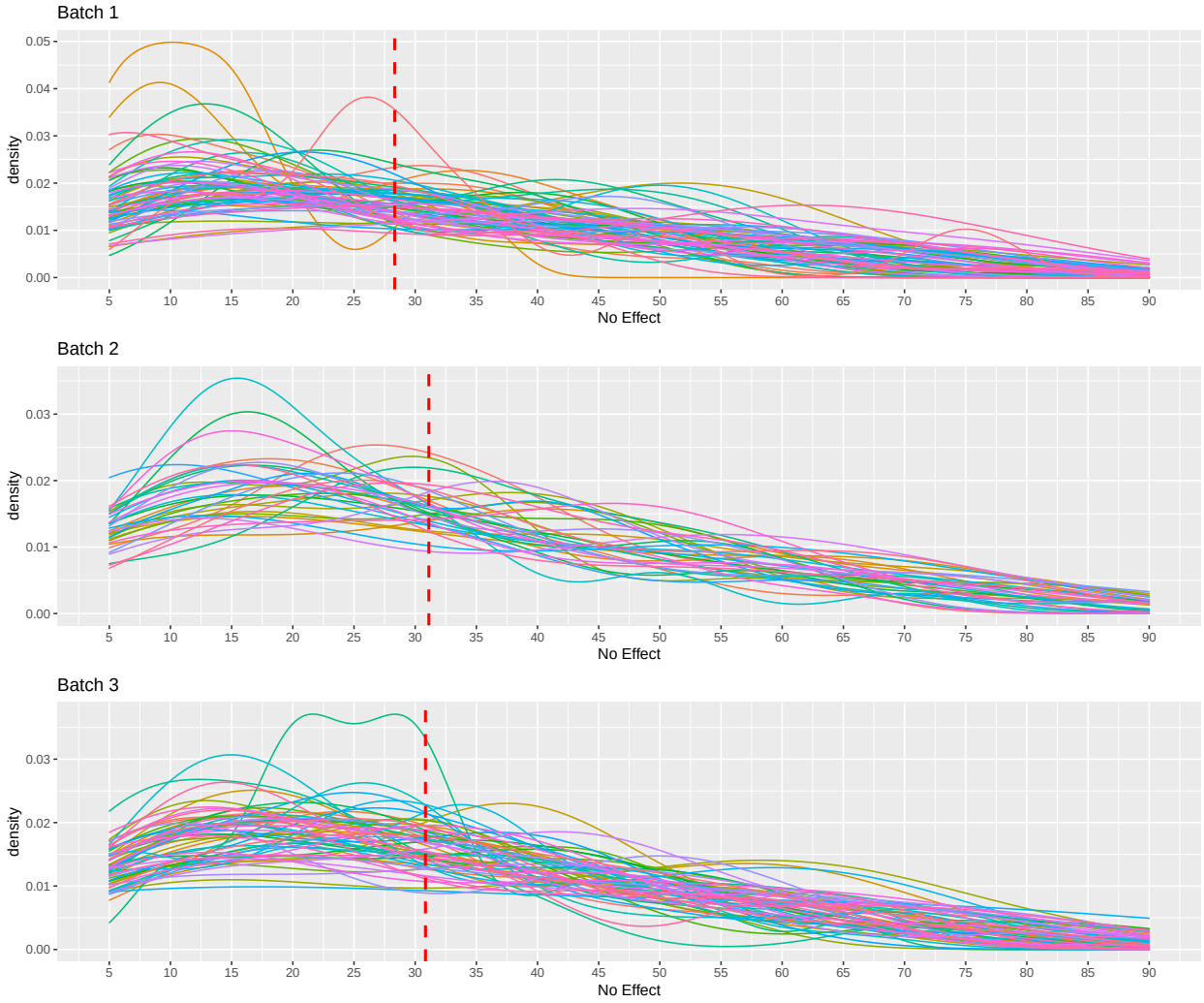
```
## Warning: Groups with fewer than two data points have been dropped.
```




```
## Warning: Groups with fewer than two data points have been dropped.
```

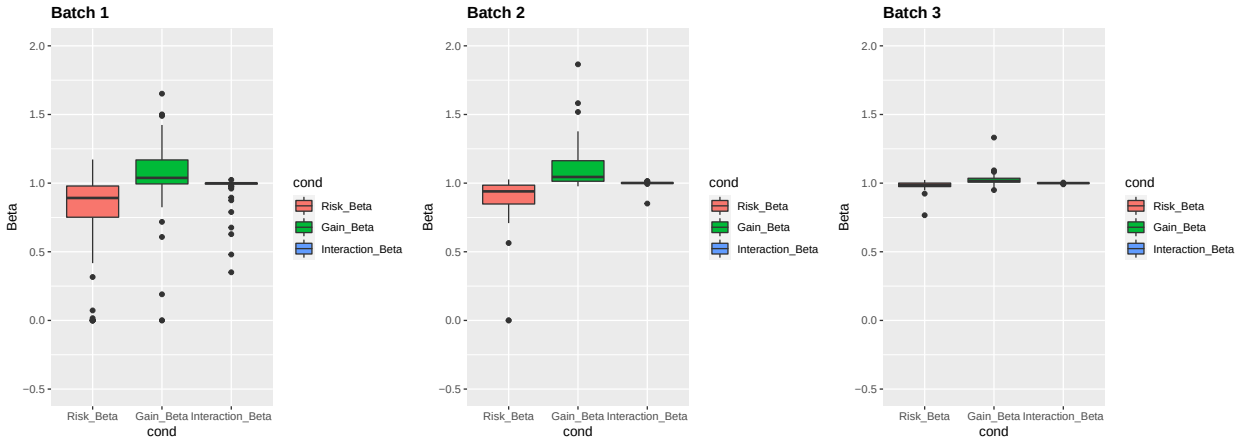


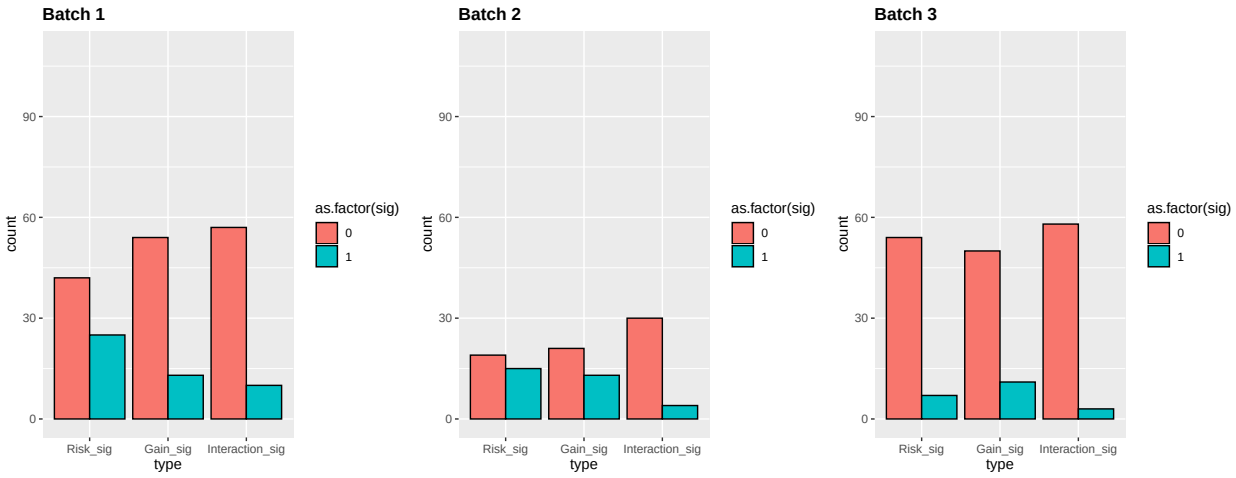

```
## Warning: Groups with fewer than two data points have been dropped.
```


Batch 1
density
0.05
0.04
0.03
0.02
0.01
0.00
5 10 15 20 25 30 35 40 45 50 55 60 65 70 75 80 85 90
No Effect
Batch 2
density
0.03
0.02
0.01
0.00
5 10 15 20 25 30 35 40 45 50 55 60 65 70 75 80 85 90
No Effect
Batch 3
density
0.03
0.02
0.01
0.00
5 10 15 20 25 30 35 40 45 50 55 60 65 70 75 80 85 90
No Effect

```
## Warning: Removed 7 rows containing non-finite values (stat_boxplot).
```

```
## Warning: Removed 2 rows containing non-finite values (stat_boxplot).
```




Batch 1
Batch 2
Batch 3
count
90
60
30
0
Risk_sig
Gain_sig
Interaction_sig
type
as.factor(sig)
0
1