

10 factors, 5 groups of 2

q=0.05

Active N(6,1); Inactive N(0,1); Error N(0,1)

Average size of two-stage expt = 31.36

Averages: for all effects

Sensitivity = 0.6424806 (1000)

Specificity = 0.9856822 (1000)

sPPV = 0.98503 (1000)

sNPV = 0.9838866 (1000)

FDR = 0.01496994 (1000)

FNPV = 0.01611338 (1000)

Type I = 0.01431776 (1000)

Type II = 0.3575194 (1000)

No. of effects in true model = 2.52

No. of effects deemed active = 2.394

Averages: for main effects

Sensitivity = 0.8205 (1000)

Specificity = 0.9346127 (1000)

sPPV = 0.9163619 (1000)

sNPV = 0.9748587 (1000)

FDR = 0.0836381 (1000)

FNPV = 0.02514127 (1000)

Type I = 0.0653873 (1000)

Type II = 0.1795 (1000)

No. of effects in true model = 1

No. of effects deemed active = 1.337

Averages: for interactions

Sensitivity = 0.643131 (1000)

Specificity = 0.9961866 (1000)

sPPV = 0.9960467 (1000)

sNPV = 0.9859644 (1000)

FDR = 0.003953289 (1000)

FNPV = 0.01403560 (1000)

Type I = 0.003813428 (1000)

Type II = 0.3568690 (1000)

No. of effects in true model = 1.52

No. of effects deemed active = 1.057

Active N(12,4); Inactive N(0,1); Error N(0,1)

Average size of two-stage expt = 31.88

Averages: for all effects

Sensitivity = 0.943617 (1000)

Specificity = 0.9880582 (1000)

sPPV = 0.9876676 (1000)

sNPV = 0.9975072 (1000)

FDR = 0.01233236 (1000)

FNPV = 0.002492846 (1000)

Type I = 0.01194178 (1000)

Type II = 0.05638294 (1000)

No. of effects in true model = 2.57
No. of effects deemed active = 3.068

Averages: for main effects
Sensitivity = 0.9941667 (1000)
Specificity = 0.9381571 (1000)
sPPV = 0.924969 (1000)
sNPV = 0.9990944 (1000)

FDR = 0.07503095 (1000)
FNPV = 0.0009055556 (1000)
Type I = 0.06184286 (1000)
Type II = 0.005833333 (1000)

No. of effects in true model = 0.989
No. of effects deemed active = 1.547

Averages: for interactions
Sensitivity = 0.9384476 (1000)
Specificity = 0.99856 (1000)
sPPV = 0.9985175 (1000)
sNPV = 0.9971964 (1000)

FDR = 0.001482475 (1000)
FNPV = 0.002803643 (1000)
Type I = 0.001440005 (1000)
Type II = 0.06155238 (1000)

No. of effects in true model = 1.581
No. of effects deemed active = 1.521

Active N(24,4); Inactive N(0,1); Error N(0,1)
Average size of two-stage expt = 29.46

Averages: for all effects
Sensitivity = 0.9427372 (1000)
Specificity = 0.995348 (1000)
sPPV = 0.9952376 (1000)
sNPV = 0.9967816 (1000)

FDR = 0.004762432 (1000)
FNPV = 0.003218408 (1000)
Type I = 0.004651944 (1000)
Type II = 0.05726277 (1000)

No. of effects in true model = 2.465
No. of effects deemed active = 2.541

Averages: for main effects
Sensitivity = 0.9971667 (1000)
Specificity = 0.976346 (1000)
sPPV = 0.9724956 (1000)
sNPV = 0.9993194 (1000)

FDR = 0.02750437 (1000)
FNPV = 0.0006805556 (1000)
Type I = 0.02365397 (1000)
Type II = 0.002833333 (1000)

No. of effects in true model = 0.935
No. of effects deemed active = 1.145

Averages: for interactions

Sensitivity = 0.9282833 (1000)
Specificity = 0.9993425 (1000)
sPPV = 0.9993382 (1000)
sNPV = 0.9962951 (1000)

FDR = 0.0006618494 (1000)
FNPV = 0.003704891 (1000)
Type I = 0.0006574572 (1000)
Type II = 0.07171667 (1000)

No. of effects in true model = 1.53
No. of effects deemed active = 1.396

Active N(24,4); Inactive N(0,16); Error N(0,1)
Average size of two-stage expt = 35.60

Averages: for all effects
Sensitivity = 0.7136137 (1000)
Specificity = 0.9765121 (1000)
sPPV = 0.9740095 (1000)
sNPV = 0.9879649 (1000)

FDR = 0.02599052 (1000)
FNPV = 0.01203510 (1000)
Type I = 0.02348786 (1000)
Type II = 0.2863863 (1000)

No. of effects in true model = 2.443
No. of effects deemed active = 3.026

Averages: for main effects
Sensitivity = 0.8918333 (1000)
Specificity = 0.9105437 (1000)
sPPV = 0.8666345 (1000)
sNPV = 0.9855889 (1000)

FDR = 0.1333655 (1000)
FNPV = 0.01441111 (1000)
Type I = 0.08945635 (1000)
Type II = 0.1081667 (1000)

No. of effects in true model = 0.953
No. of effects deemed active = 1.616

Averages: for interactions
Sensitivity = 0.7099889 (1000)
Specificity = 0.9901313 (1000)
sPPV = 0.9889611 (1000)
sNPV = 0.9885762 (1000)

FDR = 0.01103887 (1000)
FNPV = 0.01142378 (1000)
Type I = 0.009868713 (1000)
Type II = 0.2900111 (1000)

No. of effects in true model = 1.49
No. of effects deemed active = 1.41

10 factors, 5 groups of 2

q=0.1

Active N(6,1); Inactive N(0,1); Error N(0,1)

Average size of two-stage expt = 32.37

Averages: for all effects

Sensitivity = 0.6619533 (1000)

Specificity = 0.9826435 (1000)

sPPV = 0.9817728 (1000)

sNPV = 0.9780667 (1000)

FDR = 0.0182272 (1000)

FNPV = 0.02193326 (1000)

Type I = 0.01735652 (1000)

Type II = 0.3380467 (1000)

No. of effects in true model = 3.159

No. of effects deemed active = 2.877

Averages: for main effects

Sensitivity = 0.7802333 (1000)

Specificity = 0.9252841 (1000)

sPPV = 0.9025833 (1000)

sNPV = 0.9628337 (1000)

FDR = 0.09741667 (1000)

FNPV = 0.03716627 (1000)

Type I = 0.07471587 (1000)

Type II = 0.2197667 (1000)

No. of effects in true model = 1.336

No. of effects deemed active = 1.629

Averages: for interactions

Sensitivity = 0.6488345 (1000)

Specificity = 0.9941563 (1000)

sPPV = 0.9939226 (1000)

sNPV = 0.9814527 (1000)

FDR = 0.006077438 (1000)

FNPV = 0.01854728 (1000)

Type I = 0.005843658 (1000)

Type II = 0.3511655 (1000)

No. of effects in true model = 1.823

No. of effects deemed active = 1.248

Active N(12,4); Inactive N(0,1); Error N(0,1)

Average size of two-stage expt = 33.12

Averages: for all effects

Sensitivity = 0.9544393 (1000)

Specificity = 0.9891772 (1000)

sPPV = 0.9888507 (1000)

sNPV = 0.996077 (1000)

FDR = 0.01114933 (1000)

FNPV = 0.003922994 (1000)

Type I = 0.01082276 (1000)

Type II = 0.04556073 (1000)

No. of effects in true model = 3.275
No. of effects deemed active = 3.635

Averages: for main effects
Sensitivity = 0.9929333 (1000)
Specificity = 0.9451464 (1000)
sPPV = 0.932596 (1000)
sNPV = 0.9980726 (1000)

FDR = 0.06740397 (1000)
FNPV = 0.001927381 (1000)
Type I = 0.05485357 (1000)
Type II = 0.007066667 (1000)

No. of effects in true model = 1.404
No. of effects deemed active = 1.862

Averages: for interactions
Sensitivity = 0.9415603 (1000)
Specificity = 0.9979824 (1000)
sPPV = 0.9979406 (1000)
sNPV = 0.995752 (1000)

FDR = 0.002059357 (1000)
FNPV = 0.004247938 (1000)
Type I = 0.002017571 (1000)
Type II = 0.05843968 (1000)

No. of effects in true model = 1.871
No. of effects deemed active = 1.773

Active N(24,4); Inactive N(0,1); Error N(0,1)
Average size of two-stage expt = 31.03

Averages: for all effects
Sensitivity = 0.9591928 (1000)
Specificity = 0.9958357 (1000)
sPPV = 0.9957496 (1000)
sNPV = 0.996565 (1000)

FDR = 0.00425041 (1000)
FNPV = 0.003435016 (1000)
Type I = 0.004164269 (1000)
Type II = 0.04080722 (1000)

No. of effects in true model = 3.175
No. of effects deemed active = 3.214

Averages: for main effects
Sensitivity = 0.9941667 (1000)
Specificity = 0.9796028 (1000)
sPPV = 0.9761679 (1000)
sNPV = 0.9986944 (1000)

FDR = 0.02383214 (1000)
FNPV = 0.001305556 (1000)
Type I = 0.02039722 (1000)
Type II = 0.005833333 (1000)

No. of effects in true model = 1.368
No. of effects deemed active = 1.534

Averages: for interactions
Sensitivity = 0.9448524 (1000)

Specificity = 0.9991185 (1000)
sPPV = 0.9991191 (1000)
sNPV = 0.9962068 (1000)

FDR = 0.000880884 (1000)
FNPV = 0.003793175 (1000)
Type I = 0.0008815125 (1000)
Type II = 0.05514762 (1000)

No. of effects in true model = 1.807
No. of effects deemed active = 1.68

Active N(24,4); Inactive N(0,16); Error N(0,1)
Average size of two-stage expt = 37.21

Averages: for all effects
Sensitivity = 0.766578 (1000)
Specificity = 0.9748058 (1000)
sPPV = 0.9728961 (1000)
sNPV = 0.9858344 (1000)

FDR = 0.02710388 (1000)
FNPV = 0.01416563 (1000)
Type I = 0.02519421 (1000)
Type II = 0.2334219 (1000)

No. of effects in true model = 3.165
No. of effects deemed active = 3.713

Averages: for main effects
Sensitivity = 0.86645 (1000)
Specificity = 0.9056468 (1000)
sPPV = 0.8709198 (1000)
sNPV = 0.978508 (1000)

FDR = 0.1290802 (1000)
FNPV = 0.02149206 (1000)
Type I = 0.09435317 (1000)
Type II = 0.13355 (1000)

No. of effects in true model = 1.379
No. of effects deemed active = 1.983

Averages: for interactions
Sensitivity = 0.7565286 (1000)
Specificity = 0.988563 (1000)
sPPV = 0.987829 (1000)
sNPV = 0.9875924 (1000)

FDR = 0.01217096 (1000)
FNPV = 0.01240756 (1000)
Type I = 0.01143691 (1000)
Type II = 0.2434714 (1000)

No. of effects in true model = 1.786
No. of effects deemed active = 1.73

10 factors, 5 groups of 2

q=0.15

Active N(6,1); Inactive N(0,1); Error N(0,1)

Average size of two-stage expt = 34.22

Averages: for all effects

Sensitivity = 0.6597003 (1000)

Specificity = 0.983135 (1000)

sPPV = 0.9823157 (1000)

sNPV = 0.9713651 (1000)

FDR = 0.01768429 (1000)

FNPV = 0.02863485 (1000)

Type I = 0.01686496 (1000)

Type II = 0.3402997 (1000)

No. of effects in true model = 4.026

No. of effects deemed active = 3.343

Averages: for main effects

Sensitivity = 0.7416167 (1000)

Specificity = 0.9292159 (1000)

sPPV = 0.9080341 (1000)

sNPV = 0.9438802 (1000)

FDR = 0.09196587 (1000)

FNPV = 0.05611984 (1000)

Type I = 0.07078413 (1000)

Type II = 0.2583833 (1000)

No. of effects in true model = 1.788

No. of effects deemed active = 1.827

Averages: for interactions

Sensitivity = 0.6461179 (1000)

Specificity = 0.9933794 (1000)

sPPV = 0.9930909 (1000)

sNPV = 0.9774237 (1000)

FDR = 0.006909129 (1000)

FNPV = 0.02257627 (1000)

Type I = 0.006620624 (1000)

Type II = 0.3538821 (1000)

No. of effects in true model = 2.238

No. of effects deemed active = 1.516

Active N(12,4); Inactive N(0,1); Error N(0,1)

Average size of two-stage expt = 34.16

Averages: for all effects

Sensitivity = 0.9571212 (1000)

Specificity = 0.989631 (1000)

sPPV = 0.9893165 (1000)

sNPV = 0.9950576 (1000)

FDR = 0.01068353 (1000)

FNPV = 0.004942433 (1000)

Type I = 0.01036899 (1000)

Type II = 0.04287884 (1000)

No. of effects in true model = 3.942

No. of effects deemed active = 4.22

Averages: for main effects

Sensitivity = 0.9872167 (1000)

Specificity = 0.9482841 (1000)

sPPV = 0.9376266 (1000)

sNPV = 0.9956254 (1000)

FDR = 0.06237341 (1000)

FNPV = 0.004374603 (1000)

Type I = 0.05171587 (1000)

Type II = 0.01278333 (1000)

No. of effects in true model = 1.789

No. of effects deemed active = 2.181

Averages: for interactions

Sensitivity = 0.9415286 (1000)

Specificity = 0.9976249 (1000)

sPPV = 0.9975565 (1000)

sNPV = 0.9950168 (1000)

FDR = 0.002443546 (1000)

FNPV = 0.004983177 (1000)

Type I = 0.002375126 (1000)

Type II = 0.05847143 (1000)

No. of effects in true model = 2.153

No. of effects deemed active = 2.039

Active N(24,4); Inactive N(0,1); Error N(0,1)

Average size of two-stage expt = 32.64

Averages: for all effects

Sensitivity = 0.964182 (1000)

Specificity = 0.9948465 (1000)

sPPV = 0.9946705 (1000)

sNPV = 0.995646 (1000)

FDR = 0.005329536 (1000)

FNPV = 0.004353989 (1000)

Type I = 0.0051535 (1000)

Type II = 0.03581802 (1000)

No. of effects in true model = 3.919

No. of effects deemed active = 3.961

Averages: for main effects

Sensitivity = 0.9966667 (1000)

Specificity = 0.976525 (1000)

sPPV = 0.9678115 (1000)

sNPV = 0.9987183 (1000)

FDR = 0.03218849 (1000)

FNPV = 0.001281746 (1000)

Type I = 0.023475 (1000)

Type II = 0.003333333 (1000)

No. of effects in true model = 1.755

No. of effects deemed active = 1.934

Averages: for interactions

Sensitivity = 0.9464813 (1000)

Specificity = 0.9983163 (1000)

sPPV = 0.9982996 (1000)
sNPV = 0.9951678 (1000)

FDR = 0.001700376 (1000)
FNPV = 0.004832213 (1000)
Type I = 0.001683699 (1000)
Type II = 0.05351865 (1000)

No. of effects in true model = 2.164
No. of effects deemed active = 2.027

Active N(24,4); Inactive N(0,16); Error N(0,1)
Average size of two-stage expt = 38.03

Averages: for all effects
Sensitivity = 0.7759473 (1000)
Specificity = 0.9737466 (1000)
sPPV = 0.9717178 (1000)
sNPV = 0.9789421 (1000)

FDR = 0.02828218 (1000)
FNPV = 0.02105787 (1000)
Type I = 0.0262534 (1000)
Type II = 0.2240527 (1000)

No. of effects in true model = 4.012
No. of effects deemed active = 4.233

Averages: for main effects
Sensitivity = 0.8418333 (1000)
Specificity = 0.9055738 (1000)
sPPV = 0.8729258 (1000)
sNPV = 0.9626433 (1000)

FDR = 0.1270742 (1000)
FNPV = 0.03735675 (1000)
Type I = 0.09442619 (1000)
Type II = 0.1581667 (1000)

No. of effects in true model = 1.798
No. of effects deemed active = 2.23

Averages: for interactions
Sensitivity = 0.7543464 (1000)
Specificity = 0.9869563 (1000)
sPPV = 0.9860697 (1000)
sNPV = 0.982615 (1000)

FDR = 0.01393034 (1000)
FNPV = 0.01738509 (1000)
Type I = 0.01304372 (1000)
Type II = 0.2456536 (1000)

No. of effects in true model = 2.214
No. of effects deemed active = 2.003

10 factors, 5 groups of 2

q=0.2

Active N(6,1); Inactive N(0,1); Error N(0,1)

Average size of two-stage expt = 35.50

Averages: for all effects

Sensitivity = 0.6824538 (1000)

Specificity = 0.9811426 (1000)

sPPV = 0.9803483 (1000)

sNPV = 0.9659189 (1000)

FDR = 0.01965166 (1000)

FNPV = 0.03408114 (1000)

Type I = 0.01885740 (1000)

Type II = 0.3175462 (1000)

No. of effects in true model = 4.897

No. of effects deemed active = 4.027

Averages: for main effects

Sensitivity = 0.7663286 (1000)

Specificity = 0.9198659 (1000)

sPPV = 0.8950472 (1000)

sNPV = 0.9354659 (1000)

FDR = 0.1049528 (1000)

FNPV = 0.06453413 (1000)

Type I = 0.08013413 (1000)

Type II = 0.2336714 (1000)

No. of effects in true model = 2.209

No. of effects deemed active = 2.23

Averages: for interactions

Sensitivity = 0.642629 (1000)

Specificity = 0.99238 (1000)

sPPV = 0.9921338 (1000)

sNPV = 0.972588 (1000)

FDR = 0.007866177 (1000)

FNPV = 0.02741199 (1000)

Type I = 0.007620093 (1000)

Type II = 0.357371 (1000)

No. of effects in true model = 2.688

No. of effects deemed active = 1.797

Active N(12,4); Inactive N(0,1); Error N(0,1)

Average size of two-stage expt = 36.44

Averages: for all effects

Sensitivity = 0.9486593 (1000)

Specificity = 0.988754 (1000)

sPPV = 0.9884523 (1000)

sNPV = 0.9919418 (1000)

FDR = 0.01154773 (1000)

FNPV = 0.008058203 (1000)

Type I = 0.01124601 (1000)

Type II = 0.05134072 (1000)

No. of effects in true model = 4.964

No. of effects deemed active = 5.116

Averages: for main effects

Sensitivity = 0.9806 (1000)
Specificity = 0.943483 (1000)
sPPV = 0.9304639 (1000)
sNPV = 0.9918143 (1000)

FDR = 0.06953611 (1000)
FNPV = 0.008185714 (1000)
Type I = 0.05651706 (1000)
Type II = 0.0194 (1000)

No. of effects in true model = 2.229
No. of effects deemed active = 2.601

Averages: for interactions

Sensitivity = 0.930164 (1000)
Specificity = 0.9971133 (1000)
sPPV = 0.9970803 (1000)
sNPV = 0.9921068 (1000)

FDR = 0.002919732 (1000)
FNPV = 0.007893186 (1000)
Type I = 0.002886677 (1000)
Type II = 0.06983593 (1000)

No. of effects in true model = 2.735
No. of effects deemed active = 2.515

Active N(24,4); Inactive N(0,1); Error N(0,1)
Average size of two-stage expt = 34.33

Averages: for all effects

Sensitivity = 0.9559784 (1000)
Specificity = 0.9939793 (1000)
sPPV = 0.9937837 (1000)
sNPV = 0.9926118 (1000)

FDR = 0.006216264 (1000)
FNPV = 0.007388199 (1000)
Type I = 0.006020731 (1000)
Type II = 0.04402162 (1000)

No. of effects in true model = 4.738
No. of effects deemed active = 4.666

Averages: for main effects

Sensitivity = 0.9893333 (1000)
Specificity = 0.9752679 (1000)
sPPV = 0.965394 (1000)
sNPV = 0.9955452 (1000)

FDR = 0.03460595 (1000)
FNPV = 0.004454762 (1000)
Type I = 0.02473214 (1000)
Type II = 0.01066667 (1000)

No. of effects in true model = 2.159
No. of effects deemed active = 2.304

Averages: for interactions

Sensitivity = 0.9340786 (1000)

Specificity = 0.997339 (1000)
sPPV = 0.9973132 (1000)
sNPV = 0.9923206 (1000)

FDR = 0.002686793 (1000)
FNPV = 0.007679407 (1000)
Type I = 0.002660902 (1000)
Type II = 0.06592136 (1000)

No. of effects in true model = 2.579
No. of effects deemed active = 2.362

Active N(24,4); Inactive N(0,16); Error N(0,1)
Average size of two-stage expt = 39.04

Averages: for all effects
Sensitivity = 0.7515452 (1000)
Specificity = 0.9760634 (1000)
sPPV = 0.974547 (1000)
sNPV = 0.974047 (1000)

FDR = 0.02545309 (1000)
FNPV = 0.02595308 (1000)
Type I = 0.02393661 (1000)
Type II = 0.2484548 (1000)

No. of effects in true model = 4.804
No. of effects deemed active = 4.629

Averages: for main effects
Sensitivity = 0.8169833 (1000)
Specificity = 0.9077944 (1000)
sPPV = 0.8727048 (1000)
sNPV = 0.9518147 (1000)

FDR = 0.1272952 (1000)
FNPV = 0.04818532 (1000)
Type I = 0.09220556 (1000)
Type II = 0.1830167 (1000)

No. of effects in true model = 2.2
No. of effects deemed active = 2.466

Averages: for interactions
Sensitivity = 0.7235179 (1000)
Specificity = 0.9886063 (1000)
sPPV = 0.9880194 (1000)
sNPV = 0.9790271 (1000)

FDR = 0.01198056 (1000)
FNPV = 0.0209729 (1000)
Type I = 0.01139374 (1000)
Type II = 0.2764821 (1000)

No. of effects in true model = 2.604
No. of effects deemed active = 2.163