

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 = 30.88

Averages: for all effects

Sensitivity = 0.6071857 (1000)
Specificity = 0.989844 (1000)
sPPV = 0.9892335 (1000)
sNPV = 0.988538 (1000)

FDR = 0.01076651 (1000)
FNPV = 0.01146202 (1000)
Type I = 0.01015606 (1000)
Type II = 0.3928143 (1000)

No. of effects in true model = 1.429
No. of effects deemed active = 1.34

Averages: for main effects

Sensitivity = 0.8748333 (1000)
Specificity = 0.9562234 (1000)
sPPV = 0.9420167 (1000)
sNPV = 0.9847242 (1000)

FDR = 0.05798333 (1000)
FNPV = 0.01527579 (1000)
Type I = 0.04377659 (1000)
Type II = 0.1251667 (1000)

No. of effects in true model = 0.519
No. of effects deemed active = 0.767

Averages: for interactions

Sensitivity = 0.6418667 (1000)
Specificity = 0.9968197 (1000)
sPPV = 0.996652 (1000)
sNPV = 0.9893844 (1000)

FDR = 0.003348007 (1000)
FNPV = 0.01061558 (1000)
Type I = 0.003180337 (1000)
Type II = 0.3581333 (1000)

No. of effects in true model = 0.91
No. of effects deemed active = 0.573

Active N(12,4); Inactive N(0,1); Error N(0,1)
Average size of two-stage expt = 30.72

Averages: for all effects

Sensitivity = 0.7353083 (1000)
Specificity = 0.99243 (1000)
sPPV = 0.992151 (1000)
sNPV = 0.9944104 (1000)

FDR = 0.007848986 (1000)
FNPV = 0.005589572 (1000)
Type I = 0.007570049 (1000)
Type II = 0.2646917 (1000)

No. of **effects in** true model = 1.507
No. of **effects** deemed active = 1.605

Averages: **for main effects**

Sensitivity = 0.9641667 (1000)
Specificity = 0.9629325 (1000)
sPPV = 0.9548337 (1000)
sNPV = 0.9962528 (1000)

FDR = 0.04516627 (1000)
FNPV = 0.003747222 (1000)
Type I = 0.03706746 (1000)
Type II = 0.03583333 (1000)

No. of **effects in** true model = 0.539
No. of **effects** deemed active = 0.846

Averages: **for interactions**

Sensitivity = 0.7633667 (1000)
Specificity = 0.99868 (1000)
sPPV = 0.9986405 (1000)
sNPV = 0.9940361 (1000)

FDR = 0.001359502 (1000)
FNPV = 0.005963851 (1000)
Type I = 0.001320045 (1000)
Type II = 0.2366333 (1000)

No. of **effects in** true model = 0.968
No. of **effects** deemed active = 0.759

Active N(24,4); Inactive N(0,1); Error N(0,1)
Average size of two-stage expt = 29.24

Averages: **for all effects**

Sensitivity = 0.734556 (1000)
Specificity = 0.9961573 (1000)
sPPV = 0.995993 (1000)
sNPV = 0.9943433 (1000)

FDR = 0.004007 (1000)
FNPV = 0.005656728 (1000)
Type I = 0.003842687 (1000)
Type II = 0.2654440 (1000)

No. of **effects in** true model = 1.498
No. of **effects** deemed active = 1.396

Averages: **for main effects**

Sensitivity = 0.9643333 (1000)
Specificity = 0.98181 (1000)
sPPV = 0.9779266 (1000)
sNPV = 0.9961877 (1000)

FDR = 0.02207341 (1000)
FNPV = 0.003812302 (1000)
Type I = 0.01819008 (1000)
Type II = 0.03566667 (1000)

No. of **effects in** true model = 0.523
No. of **effects** deemed active = 0.657

Averages: **for interactions**

Sensitivity = 0.7635333 (1000)

Specificity = 0.9992227 (1000)
sPPV = 0.9991822 (1000)
sNPV = 0.993954 (1000)

FDR = 0.0008177772 (1000)
FNPV = 0.006046054 (1000)
Type I = 0.0007772601 (1000)
Type II = 0.2364667 (1000)

No. of effects in true model = 0.975
No. of effects deemed active = 0.739

Active N(24,4); Inactive N(0,16); Error N(0,1)
Average size of two-stage expt = 37.53

Averages: for all effects

Sensitivity = 0.6712825 (1000)
Specificity = 0.9787824 (1000)
sPPV = 0.9758064 (1000)
sNPV = 0.990893 (1000)

FDR = 0.02419357 (1000)
FNPV = 0.009107046 (1000)
Type I = 0.02121759 (1000)
Type II = 0.3287175 (1000)

No. of effects in true model = 1.553
No. of effects deemed active = 2.192

Averages: for main effects

Sensitivity = 0.9133333 (1000)
Specificity = 0.9298611 (1000)
sPPV = 0.8942028 (1000)
sNPV = 0.9896004 (1000)

FDR = 0.1057972 (1000)
FNPV = 0.01039960 (1000)
Type I = 0.07013889 (1000)
Type II = 0.08666667 (1000)

No. of effects in true model = 0.567
No. of effects deemed active = 1.116

Averages: for interactions

Sensitivity = 0.7024167 (1000)
Specificity = 0.989069 (1000)
sPPV = 0.9876102 (1000)
sNPV = 0.991206 (1000)

FDR = 0.01238983 (1000)
FNPV = 0.008793945 (1000)
Type I = 0.01093106 (1000)
Type II = 0.2975833 (1000)

No. of effects in true model = 0.986
No. of effects deemed active = 1.076

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 = 32.13

Averages: for all effects

Sensitivity = 0.6101626 (1000)
Specificity = 0.9873629 (1000)
sPPV = 0.9867185 (1000)
sNPV = 0.9819637 (1000)

FDR = 0.01328149 (1000)
FNPV = 0.01803634 (1000)
Type I = 0.01263713 (1000)
Type II = 0.3898374 (1000)

No. of effects in true model = 2.464
No. of effects deemed active = 2.146

Averages: for main effects

Sensitivity = 0.8246667 (1000)
Specificity = 0.9457798 (1000)
sPPV = 0.9304083 (1000)
sNPV = 0.9719833 (1000)

FDR = 0.06959167 (1000)
FNPV = 0.02801667 (1000)
Type I = 0.05422024 (1000)
Type II = 0.1753333 (1000)

No. of effects in true model = 1.038
No. of effects deemed active = 1.24

Averages: for interactions

Sensitivity = 0.6198667 (1000)
Specificity = 0.9956665 (1000)
sPPV = 0.9954698 (1000)
sNPV = 0.9841649 (1000)

FDR = 0.004530187 (1000)
FNPV = 0.01583513 (1000)
Type I = 0.004333534 (1000)
Type II = 0.3801333 (1000)

No. of effects in true model = 1.426
No. of effects deemed active = 0.906

Active N(12,4); Inactive N(0,1); Error N(0,1)
Average size of two-stage expt = 32.49

Averages: for all effects

Sensitivity = 0.7956733 (1000)
Specificity = 0.9909084 (1000)
sPPV = 0.9905332 (1000)
sNPV = 0.9949475 (1000)

FDR = 0.009466757 (1000)
FNPV = 0.005052515 (1000)
Type I = 0.009091628 (1000)
Type II = 0.2043267 (1000)

No. of effects in true model = 2.396

No. of **effects** deemed active = 2.599

Averages: **for main effects**

Sensitivity = 0.9653333 (1000)

Specificity = 0.95409 (1000)

sPPV = 0.94355 (1000)

sNPV = 0.9959321 (1000)

FDR = 0.05645 (1000)

FNPV = 0.004067857 (1000)

Type I = 0.04590992 (1000)

Type II = 0.03466667 (1000)

No. of **effects in true model** = 1.006

No. of **effects** deemed active = 1.366

Averages: **for interactions**

Sensitivity = 0.8197786 (1000)

Specificity = 0.998264 (1000)

sPPV = 0.9981781 (1000)

sNPV = 0.9947602 (1000)

FDR = 0.001821875 (1000)

FNPV = 0.005239844 (1000)

Type I = 0.001735958 (1000)

Type II = 0.1802214 (1000)

No. of **effects in true model** = 1.39

No. of **effects** deemed active = 1.233

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

Average size of two-stage expt = 31.07

Averages: **for all effects**

Sensitivity = 0.7918163 (1000)

Specificity = 0.9962575 (1000)

sPPV = 0.9960616 (1000)

sNPV = 0.9942006 (1000)

FDR = 0.003938438 (1000)

FNPV = 0.00579937 (1000)

Type I = 0.003742538 (1000)

Type II = 0.2081837 (1000)

No. of **effects in true model** = 2.56

No. of **effects** deemed active = 2.445

Averages: **for main effects**

Sensitivity = 0.964 (1000)

Specificity = 0.98164 (1000)

sPPV = 0.9763456 (1000)

sNPV = 0.9954976 (1000)

FDR = 0.02365437 (1000)

FNPV = 0.004502381 (1000)

Type I = 0.01835992 (1000)

Type II = 0.036 (1000)

No. of **effects in true model** = 1.068

No. of **effects** deemed active = 1.188

Averages: **for interactions**

Sensitivity = 0.8123333 (1000)

Specificity = 0.9992573 (1000)
sPPV = 0.999207 (1000)
sNPV = 0.993982 (1000)

FDR = 0.0007929834 (1000)
FNPV = 0.006018076 (1000)
Type I = 0.0007427015 (1000)
Type II = 0.1876667 (1000)

No. of effects in true model = 1.492
No. of effects deemed active = 1.257

Active N(24,4); Inactive N(0,16); Error N(0,1)
Average size of two-stage expt = 37.64

Averages: for all effects

Sensitivity = 0.6932964 (1000)
Specificity = 0.9772634 (1000)
sPPV = 0.9747808 (1000)
sNPV = 0.9881755 (1000)

FDR = 0.0252192 (1000)
FNPV = 0.01182450 (1000)
Type I = 0.02273656 (1000)
Type II = 0.3067036 (1000)

No. of effects in true model = 2.398
No. of effects deemed active = 2.95

Averages: for main effects

Sensitivity = 0.876 (1000)
Specificity = 0.9201433 (1000)
sPPV = 0.8790325 (1000)
sNPV = 0.9818425 (1000)

FDR = 0.1209675 (1000)
FNPV = 0.01815754 (1000)
Type I = 0.07985675 (1000)
Type II = 0.124 (1000)

No. of effects in true model = 1.011
No. of effects deemed active = 1.536

Averages: for interactions

Sensitivity = 0.7199929 (1000)
Specificity = 0.988727 (1000)
sPPV = 0.9876441 (1000)
sNPV = 0.9895744 (1000)

FDR = 0.01235590 (1000)
FNPV = 0.01042557 (1000)
Type I = 0.01127295 (1000)
Type II = 0.2800071 (1000)

No. of effects in true model = 1.387
No. of effects deemed active = 1.414

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 = 34.21

Averages: for all effects

Sensitivity = 0.6282639 (1000)
Specificity = 0.9838143 (1000)
sPPV = 0.9830585 (1000)
sNPV = 0.9768328 (1000)

FDR = 0.01694150 (1000)
FNPV = 0.02316724 (1000)
Type I = 0.01618565 (1000)
Type II = 0.3717361 (1000)

No. of effects in true model = 3.467
No. of effects deemed active = 3.055

Averages: for main effects

Sensitivity = 0.79195 (1000)
Specificity = 0.9316937 (1000)
sPPV = 0.9099873 (1000)
sNPV = 0.959302 (1000)

FDR = 0.0900127 (1000)
FNPV = 0.04069802 (1000)
Type I = 0.06830635 (1000)
Type II = 0.20805 (1000)

No. of effects in true model = 1.532
No. of effects deemed active = 1.711

Averages: for interactions

Sensitivity = 0.626512 (1000)
Specificity = 0.9938514 (1000)
sPPV = 0.9936454 (1000)
sNPV = 0.980753 (1000)

FDR = 0.006354644 (1000)
FNPV = 0.01924695 (1000)
Type I = 0.00614864 (1000)
Type II = 0.373488 (1000)

No. of effects in true model = 1.935
No. of effects deemed active = 1.344

Active N(12,4); Inactive N(0,1); Error N(0,1)
Average size of two-stage expt = 35.23

Averages: for all effects

Sensitivity = 0.8588201 (1000)
Specificity = 0.989984 (1000)
sPPV = 0.9896908 (1000)
sNPV = 0.9943162 (1000)

FDR = 0.01030917 (1000)
FNPV = 0.005683771 (1000)
Type I = 0.01001592 (1000)
Type II = 0.1411799 (1000)

No. of effects in true model = 3.653

No. of effects deemed active = 3.868

Averages: for main effects

Sensitivity = 0.9744167 (1000)

Specificity = 0.9501587 (1000)

sPPV = 0.9378702 (1000)

sNPV = 0.996421 (1000)

FDR = 0.06212976 (1000)

FNPV = 0.003578968 (1000)

Type I = 0.04984127 (1000)

Type II = 0.02558333 (1000)

No. of effects in true model = 1.615

No. of effects deemed active = 1.99

Averages: for interactions

Sensitivity = 0.8623286 (1000)

Specificity = 0.997597 (1000)

sPPV = 0.9975589 (1000)

sNPV = 0.9940144 (1000)

FDR = 0.002441146 (1000)

FNPV = 0.005985553 (1000)

Type I = 0.002402989 (1000)

Type II = 0.1376714 (1000)

No. of effects in true model = 2.038

No. of effects deemed active = 1.878

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

Average size of two-stage expt = 32.72

Averages: for all effects

Sensitivity = 0.836793 (1000)

Specificity = 0.9953091 (1000)

sPPV = 0.9951546 (1000)

sNPV = 0.9934224 (1000)

FDR = 0.004845395 (1000)

FNPV = 0.006577554 (1000)

Type I = 0.00469087 (1000)

Type II = 0.163207 (1000)

No. of effects in true model = 3.347

No. of effects deemed active = 3.245

Averages: for main effects

Sensitivity = 0.9648333 (1000)

Specificity = 0.9796623 (1000)

sPPV = 0.9748111 (1000)

sNPV = 0.994512 (1000)

FDR = 0.02518889 (1000)

FNPV = 0.005488095 (1000)

Type I = 0.0203377 (1000)

Type II = 0.03516667 (1000)

No. of effects in true model = 1.45

No. of effects deemed active = 1.569

Averages: for interactions

Sensitivity = 0.8518548 (1000)

Specificity = 0.998337 (1000)

sPPV = 0.9983045 (1000)
sNPV = 0.9932944 (1000)

FDR = 0.001695493 (1000)
FNPV = 0.006705629 (1000)
Type I = 0.001663070 (1000)
Type II = 0.1481452 (1000)

No. of effects in true model = 1.897
No. of effects deemed active = 1.676

Active N(24,4); Inactive N(0,16); Error N(0,1)
Average size of two-stage expt = 37.95

Averages: for all effects

Sensitivity = 0.6903887 (1000)
Specificity = 0.9771653 (1000)
sPPV = 0.9754193 (1000)
sNPV = 0.9803043 (1000)

FDR = 0.02458074 (1000)
FNPV = 0.01969574 (1000)
Type I = 0.02283472 (1000)
Type II = 0.3096113 (1000)

No. of effects in true model = 3.495
No. of effects deemed active = 3.612

Averages: for main effects

Sensitivity = 0.83125 (1000)
Specificity = 0.9136353 (1000)
sPPV = 0.8799746 (1000)
sNPV = 0.9656825 (1000)

FDR = 0.1200254 (1000)
FNPV = 0.03431746 (1000)
Type I = 0.08636468 (1000)
Type II = 0.16875 (1000)

No. of effects in true model = 1.487
No. of effects deemed active = 1.887

Averages: for interactions

Sensitivity = 0.692931 (1000)
Specificity = 0.9896158 (1000)
sPPV = 0.9888783 (1000)
sNPV = 0.9836052 (1000)

FDR = 0.01112166 (1000)
FNPV = 0.01639479 (1000)
Type I = 0.01038422 (1000)
Type II = 0.3070690 (1000)

No. of effects in true model = 2.008
No. of effects deemed active = 1.725

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 = 35.04

Averages: for all effects

Sensitivity = 0.649669 (1000)
Specificity = 0.9841925 (1000)
sPPV = 0.9835707 (1000)
sNPV = 0.9674534 (1000)

FDR = 0.01642932 (1000)
FNPV = 0.03254656 (1000)
Type I = 0.01580753 (1000)
Type II = 0.3503310 (1000)

No. of effects in true model = 4.497
No. of effects deemed active = 3.553

Averages: for main effects

Sensitivity = 0.7580333 (1000)
Specificity = 0.932144 (1000)
sPPV = 0.9134611 (1000)
sNPV = 0.9384548 (1000)

FDR = 0.08653889 (1000)
FNPV = 0.06154524 (1000)
Type I = 0.06785595 (1000)
Type II = 0.2419667 (1000)

No. of effects in true model = 1.989
No. of effects deemed active = 1.948

Averages: for interactions

Sensitivity = 0.6458083 (1000)
Specificity = 0.99377 (1000)
sPPV = 0.9935703 (1000)
sNPV = 0.9736963 (1000)

FDR = 0.006429706 (1000)
FNPV = 0.02630367 (1000)
Type I = 0.006230046 (1000)
Type II = 0.3541917 (1000)

No. of effects in true model = 2.508
No. of effects deemed active = 1.605

Active N(12,4); Inactive N(0,1); Error N(0,1)
Average size of two-stage expt = 35.54

Averages: for all effects

Sensitivity = 0.9040634 (1000)
Specificity = 0.9888778 (1000)
sPPV = 0.988526 (1000)
sNPV = 0.9931698 (1000)

FDR = 0.01147395 (1000)
FNPV = 0.006830176 (1000)
Type I = 0.01112221 (1000)
Type II = 0.09593656 (1000)

No. of effects in true model = 4.268

No. of effects deemed active = 4.483

Averages: for main effects

Sensitivity = 0.9754167 (1000)
Specificity = 0.9431365 (1000)
sPPV = 0.9289528 (1000)
sNPV = 0.9950024 (1000)

FDR = 0.07104722 (1000)
FNPV = 0.004997619 (1000)
Type I = 0.05686349 (1000)
Type II = 0.02458333 (1000)

No. of effects in true model = 1.949
No. of effects deemed active = 2.355

Averages: for interactions

Sensitivity = 0.9007489 (1000)
Specificity = 0.9974278 (1000)
sPPV = 0.997379 (1000)
sNPV = 0.993039 (1000)

FDR = 0.002620927 (1000)
FNPV = 0.006961094 (1000)
Type I = 0.002572217 (1000)
Type II = 0.09925112 (1000)

No. of effects in true model = 2.319
No. of effects deemed active = 2.128

Active N(24,4); Inactive N(0,1); Error N(0,1)
Average size of two-stage expt = 34.31

Averages: for all effects

Sensitivity = 0.9034117 (1000)
Specificity = 0.9945866 (1000)
sPPV = 0.9944386 (1000)
sNPV = 0.9931225 (1000)

FDR = 0.005561352 (1000)
FNPV = 0.006877454 (1000)
Type I = 0.005413425 (1000)
Type II = 0.09658825 (1000)

No. of effects in true model = 4.414
No. of effects deemed active = 4.336

Averages: for main effects

Sensitivity = 0.98505 (1000)
Specificity = 0.9778929 (1000)
sPPV = 0.9727317 (1000)
sNPV = 0.9964175 (1000)

FDR = 0.02726825 (1000)
FNPV = 0.00358254 (1000)
Type I = 0.02210714 (1000)
Type II = 0.01495 (1000)

No. of effects in true model = 1.976
No. of effects deemed active = 2.121

Averages: for interactions

Sensitivity = 0.8877552 (1000)
Specificity = 0.9977297 (1000)

sPPV = 0.997705 (1000)
sNPV = 0.9926189 (1000)

FDR = 0.002295016 (1000)
FNPV = 0.00738113 (1000)
Type I = 0.002270302 (1000)
Type II = 0.1122448 (1000)

No. of effects in true model = 2.438
No. of effects deemed active = 2.215

Active N(24,4); Inactive N(0,16); Error N(0,1)
Average size of two-stage expt = 38.70

Averages: for all effects

Sensitivity = 0.732877 (1000)
Specificity = 0.9767094 (1000)
sPPV = 0.9752847 (1000)
sNPV = 0.9758316 (1000)

FDR = 0.02471531 (1000)
FNPV = 0.02416842 (1000)
Type I = 0.02329057 (1000)
Type II = 0.2671230 (1000)

No. of effects in true model = 4.451
No. of effects deemed active = 4.338

Averages: for main effects

Sensitivity = 0.8415333 (1000)
Specificity = 0.9110738 (1000)
sPPV = 0.8776004 (1000)
sNPV = 0.958848 (1000)

FDR = 0.1223996 (1000)
FNPV = 0.04115198 (1000)
Type I = 0.08892619 (1000)
Type II = 0.1584667 (1000)

No. of effects in true model = 2.017
No. of effects deemed active = 2.326

Averages: for interactions

Sensitivity = 0.7155504 (1000)
Specificity = 0.9888466 (1000)
sPPV = 0.98831 (1000)
sNPV = 0.9797682 (1000)

FDR = 0.01169009 (1000)
FNPV = 0.02023179 (1000)
Type I = 0.01115342 (1000)
Type II = 0.2844496 (1000)

No. of effects in true model = 2.434
No. of effects deemed active = 2.012