**Simulation studies – characteristics:**

For studies with initial set = 1

An efficient design of 12 initial sets was generated (Ngene), then blocked into 12 x 1 efficient initial sets.

-For simulations with 100 respondents, 11 initial sets were given to 8 respondents and the 12th set to 12 respondents (11\*8 + 1\*12 =100).

-For simulations with 200 respondents, the first 16 respondents received initial set 1, the following 17 received set 2, the following 16 set 3, 17 set 4, 16 set 5, … the last 19 respondents received initial set 12.

For studies with initial set =6

An efficient design of 12 initial sets was generated (Ngene), then blocked into 2 x 16 efficient initial sets.

- For both simulations with 100 and 200 respondents, respondents with an even ID received block 1 and the ones with an odd ID block 2.

Sampling:

To sample from the posterior, importance sampling was used with 512 samples and a lattice grid.

The individual betas were sampled from the population distribution using Latin hypercube samples. (n1=100, n2= 200).