**S4 Data**

Full model for prediction of urinary continence and complete bladder emptying.

The specific probability (P) of urinary continence and complete bladder emptying was computed using the following formula:

P = 1/[1 + exp(−S)]

involving S= -4.392515 + 1.412322x1 +0.0623388x2 +0.068302x3

where:

x1= Highest score between right and left side for S3 dermatome light-touch assessment [0, 1, 2]

x2= Lower extremity motor score (LEMS) [0 – 50]

x3= SCIM subscale respiration and sphincter management [0-40]

For example: a patient with the highest score between right and left side for S3 dermatome light-touch assessment of 1, a LEMS value of 25 and a SCIM subscale respiration and sphincter management value of 7 would results in:

S= -4.392515 + 1.412322 +25\*0.0623388 + 22\*0.068302 = 0.080921

P= 1/[1 + e-0.080921]= 1/[1 + 0.922267] = 52.0219 %