From Five MAUI onto HUI3

(1) From 15D to HUI3 (Based on OLS)

HUI3 Utility = $2.611571 \times 15D - 0.556422 \times 15D^2 + 0.0137434 \times Canada\_15D^2 - 0.0600867 \times Norway\_15D^2 + 0.0677564 \times Norway - 1.102123$

(2) From AQoL-8D to HUI3 (Based on OLS)

HUI3 Utility = $1.307021 \times AQOL8D\_IL + 0.9416 \times AQOL8D\_HAP + 0.7058413 \times AQOL8D\_MH + 0.0809502 \times AQOL8D\_COP + 0.3527913 \times AQOL8D\_REL + 0.2648487 \times AQOL8D\_SW + 0.6072733 \times AQOL8D\_PAIN + 0.347552 \times AQOL8D\_SEN - 0.5710451 \times AQOL8D\_IL^2 - 0.5585104 \times AQOL8D\_HAP^2 - 0.4311468 \times AQOL8D\_MH^2 - 0.1737435 \times AQOL8D\_REL^2 - 0.153558 \times AQOL8D\_SW^2 - 0.2318192 \times AQOL8D\_PAIN^2 - 0.0177758 \times Male - 1.523939$

(3) From EQ-5D to HUI3 (Based on GLM)

(STEP1)

HUI3 Utility* = $\exp(4.810657 \times EQ5D - 2.185667 \times EQ5D^2 - 1.265368 \times Norway\_EQ5D + 0.6266718 \times Norway\_EQ5D^2 - 0.0165064 \times Male + 0.6377188 \times Norway - 0.0182219 \times UK - 2.675943)$

(STEP2)

HUI3 Utility = (HUI3 Utility* + 0.0057864/0.992556) $\times$ 0.992556

(4) From QWB to HUI3 (Based on GLM)

(STEP1)

HUI3 Utility* = exp(7.477443×QWB - 4.295494×QWB^2 - 0.0334559×Male - 0.0235516×UK - 3.290938)

(STEP2)

HUI3 Utility = (HUI3 Utility* - 0.0110999/1.014845) ×1.014845

(5) From SF-6D to HUI3 (Based on OLS)

HUI3 Utility = 0.0920163×SF6D_GH + 0.4541032×SF6D_PF + 0.549476×SF6D_BP + 0.1527503×SF6D_VT + 0.0498157×SF6D_SF + 0.9284028×SF6D_MH - 0.1501341×SF6D_PF^2 - 0.2399895×SF6D_BP^2 - 0.0792612×SF6D_VT^2 + 0.0140397×SF6D_RE^2 - 0.4965806×SF6D_MH^2 - 0.0288839×Male + 0.0125102×Norway - 0.2913691