

From Five MAUI onto SF-6D

(1) From 15D to SF-6D (Based on MM-estimator)

(STEP1)

$$\text{SF6D Utility}^* = -0.9490672 \times 15D + 1.169158 \times 15D^2 + 0.0114996 \times \text{Male} + 0.6521629$$

(STEP2)

$$\text{SF6D Utility} = (\text{SF6D Utility}^* + 0.025915/0.9576367) \times 0.9576367$$

(2) From AQoL-8D to SF-6D (Based on MM-estimator)

(STEP1)

$$\begin{aligned} \text{SF6D Utility}^* = & 0.183035 \times \text{AQOL8D_IL} + 0.1511544 \times \text{AQOL8D_HAP} + 0.1856373 \times \text{AQOL8D_MH} + \\ & 0.0920984 \times \text{AQOL8D_REL} - 0.1102378 \times \text{AQOL8D_SW} + 0.0516765 \times \text{AQOL8D_PAIN} - \\ & 0.0186846 \times \text{AQOL8D_SEN} - 0.1012217 \times \text{AQOL8D_HAP}^2 + 0.1089987 \times \text{AQOL8D_COP}^2 + \\ & 0.1064124 \times \text{AQOL8D_SW}^2 + 0.0779641 \times \text{AQOL8D_PAIN}^2 + 0.0072122 \times \text{Germany} + 0.2103956 \end{aligned}$$

(STEP2)

$$\text{SF6D Utility} = (\text{SF6D Utility}^* + 0.0229061/0.962064) \times 0.962064$$

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

$$\begin{aligned} \text{SF6D Utility} = & 0.1309355 \times \text{EQ5D} + 0.2734192 \times \text{EQ5D}^2 + 0.017396 \times \text{Norway_EQ5D}^2 + \\ & 0.0204608 \times \text{Germany_EQ5D}^2 + 0.0144563 \times \text{USA_EQ5D}^2 + 0.0119677 \times \text{Male} + 0.0090721 \times \text{Canada} + \\ & 0.4392447 \end{aligned}$$

(4) From HUI3 to SF-6D (Based on MM-estimator)

(STEP1)

$$\text{SF6D Utility}^* = 0.0956776 \times \text{HUI3} + 0.269735 \times \text{HUI3}^2 + 0.024889 \times \text{Male} + 0.4752875$$

(STEP2)

$$\text{SF6D Utility} = (\text{SF6D Utility}^* + 0.0390049/0.9445815) \times 0.9445815$$

(5) From QWB to SF-6D (Based on GLM)

(STEP1)

$$\text{SF6D Utility}^* = \exp(3.045693 \times \text{QWB} - 1.008981) / (1 + \exp(3.045693 \times \text{QWB} - 1.008981))$$

(STEP2)

$$\text{SF6D Utility} = (\text{SF6D Utility}^* - 0.0012035/1.001712) \times 1.001712$$