ICECAP-A: Calculation of Tariff Values

Data should be set up with one study participant per row. As specified on the ICECAP-A questionnaire, coding should be such that the 'top' level (full capability for an attribute) should take the value '4', down to the bottom level (no capability) which should take the value '1'. NB this coding is the opposite of that used in instruments such as the EQ-5D (where 1 is top level).

A tariff value for an overall state can be calculated simply by summing the values across the individual attributes. For example, a tariff value for the state 43211 would be calculated as follows:

0.222 + 0.189 + 0.084 + 0.021 – 0.003 = 0.513

|  |  |
| --- | --- |
| **1. Feeling settled and secure** | |
| Level 4 | 0.222 |
| Level 3 | 0.191 |
| Level 2 | 0.101 |
| Level 1 | -0.001 |
| **2. Love, friendship and support** | |
| Level 4 | 0.228 |
| Level 3 | 0.189 |
| Level 2 | 0.096 |
| Level 1 | -0.024 |
| **3. Being independent** | |
| Level 4 | 0.188 |
| Level 3 | 0.156 |
| Level 2 | 0.084 |
| Level 1 | 0.006 |
| **4. Achievement and progress** | |
| Level 4 | 0.181 |
| Level 3 | 0.159 |
| Level 2 | 0.091 |
| Level 1 | 0.021 |
| **5. Enjoyment and pleasure** | |
| Level 4 | 0.181 |
| Level 3 | 0.154 |
| Level 2 | 0.069 |
| Level 1 | -0.003 |

STATA Code

This code, when substituted into a Stata do file, will allow calculation of ICECAP-A tariffs for each respondent in a study, based on their answers to the five classification questions. Statistical analyses can then be conducted on these tariffs. Indeed they can be conducted on the five index values also, to ascertain sensitivity of these to differences in factors.

The five variables, containing a respondent's five ICECAP-A responses should be named stability, attachment, autonomy, achievement, enjoyment. Use of this coding means that any ICECAP state can be represented by its coding. Thus '44444' represents the state described by full capability on all 5 attributes. 44144 represents the state described by no capability on the autonomy attribute, but full capability on stability, attachment, achievement, enjoyment.

matrix UTILS=(-0.001,0.101,0.191,0.222\/\*

\*/-0.024,0.096,0.189,0.228\/\*

\*/0.006, 0.084, 0.156, 0.188\/\*

\*/0.021, 0.091, 0.159, 0.181\ /\*

\*/ -0.003, 0.069, 0.154, 0.181)

gen sta\_index=UTILS[1,stability[\_n]]

gen att\_index=UTILS[2,attachment[\_n]]

gen aut\_index=UTILS[3,autonomy[\_n]]

gen ach\_index=UTILS[4,achievement[\_n]]

gen enj\_index=UTILS[5,enjoyment[\_n]]

gen tariff=sta\_index+att\_index+aut\_index+ach\_index+enj\_index