

EQ-5D-5L Canadian scoring algorithm - SPSS syntax

- * Canadian EQ-5D-5L Time Trade-off-derived value set.
- * This program computes the Canadian preference-weighted index score using self-reported EQ-5D data.
- * It is presumed that the data set includes the following five variables.

* Dimension	Variable Name	Range
-----	-----	-----
Mobility	MO	1-5
Self-care	SC	1-5
Usual activities	UA	1-5
Pain/discomfort	PD	1-5
Anxiety/depression	AD	1-5
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*where a 1 indicates no problems, a 2 indicates slight problems, a 3 indicates moderate problems, a 4 indicates severe problems, and a 5 indicates unable to perform. The variables containing responses for the five dimensions must be named as above (in capital letters). Missing values should be left blank (i.e., a '.' should not be substituted for a missing value). The index score will not be generated when responses are missing for 1 or more of the five dimensions.

*SPSS codes begin.

```
DO IF MO>3.  
COMPUTE MO45=1.  
ELSE.  
COMPUTE MO45=0.  
END IF.
```

```
DO IF SC>3.  
COMPUTE SC45=1.  
ELSE.  
COMPUTE SC45=0.  
END IF.
```

```
DO IF UA>3.  
COMPUTE UA45=1.  
ELSE.  
COMPUTE UA45=0.  
END IF.
```

```
DO IF PD>3.  
COMPUTE PD45=1.  
ELSE.  
COMPUTE PD45=0.  
END IF.
```

```
DO IF AD>3.  
COMPUTE AD45=1.
```

```

ELSE.
COMPUTE AD45=0.
END IF.

DO IF MO>3.
COMPUTE count1=1.
ELSE.
COMPUTE count1=0.
END IF.

DO IF SC>3.
COMPUTE count2=1.
ELSE.
COMPUTE count2=0.
END IF.

DO IF UA>3.
COMPUTE count3=1.
ELSE.
COMPUTE count3=0.
END IF.

DO IF PD>3.
COMPUTE count4=1.
ELSE.
COMPUTE count4=0.
END IF.

DO IF AD>3.
COMPUTE count5=1.
ELSE.
COMPUTE count5=0.
END IF.
EXECUTE.

DO IF count1+count2+count3+count4+count5<1.
COMPUTE Num45=0.
ELSE.
COMPUTE Num45=count1+count2+count3+count4+count5-1.
END IF.
EXECUTE.

COMPUTE Num45sq=Num45*Num45.
EXECUTE.

COMPUTE EQ5D_index = 1.1351 -0.0389*MO -0.0458*SC -0.0195*UA -0.0444*PD -
                     0.0376*AD -0.0510*(MO45)-0.0584*(SC45) -0.1103*(UA45)
                     -0.1409*(PD45) -0.1277*(AD45) +0.0085*Num45sq.
VARIABLE LABELS EQ5D_index 'censored at zero with consistent
participants'.
EXECUTE.

```

```
DELETE VARIABLES count1 count2 count3 count4 count5 Num45 Num45sq MO45  
SC45 UA45 PD45 AD45.  
EXECUTE.
```

Reference: Xie F, Pullenayegum E, Gaebel K, Bansback N, Bryan S, Ohinmaa A, Poissant L, Johnson JA; Canadian EQ-5D-5L Valuation Study Group. A Time Trade-off-derived Value Set of the EQ-5D-5L for Canada. Med Care. 2016 Jan;54(1):98-105.