

## Syntax for computation of real contrast sensitivity variables in LASA

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Below is the syntax for the C-wave (hence cmvar..)

RECODE

cmvar112 cmvar113 cmvar114 cmvar115 cmvar116 cmvar117 cmvar118 cmvar119  
cmvar120 cmvar121 cmvar122 (-2=9) .

EXECUTE .

RECODE

cmvar112

(0=0) (1=3) (2=7) (3=12) (4=20) (5=35) (6=70) (7=120) (8=170)  
(9=SYSMIS) INTO seeODA .

EXECUTE .

RECODE

cmvar113

(0=0) (1=4) (2=9) (3=15) (4=24) (5=44) (6=85) (7=170) (8=220)  
(9=SYSMIS) INTO seeODB .

EXECUTE .

RECODE

cmvar114

(0=0) (1=5) (2=11) (3=21) (4=45) (5=70) (6=125) (7=185) (8=260)  
(9=SYSMIS) INTO seeODC .

EXECUTE .

RECODE

cmvar115

(0=0) (1=5) (2=8) (3=15) (4=32) (5=55) (6=88) (7=125) (8=170)  
(9=SYSMIS) INTO seeODD .

EXECUTE .

RECODE

cmvar116

(0=0) (1=4) (2=7) (3=10) (4=15) (5=26) (6=40) (7=65) (8=90)  
(9=SYSMIS) INTO seeODE .

EXECUTE .

RECODE

cmvar117

(0=0) (1=3) (2=7) (3=12) (4=20) (5=35) (6=70) (7=120) (8=170)  
(9=SYSMIS) INTO seeOSA .

EXECUTE .

RECODE

cmvar118

(0=0) (1=4) (2=9) (3=15) (4=24) (5=44) (6=85) (7=170) (8=220)  
(9=SYSMIS) INTO seeOSB .

EXECUTE .

RECODE

cmvar119

(0=0) (1=5) (2=11) (3=21) (4=45) (5=70) (6=125) (7=185) (8=260)  
(9=SYSMIS) INTO seeOSC .

EXECUTE .

RECODE

cmvar120

```

(0=0) (1=5) (2=8) (3=15) (4=32) (5=55) (6=88) (7=125) (8=170)
(9=SYSMIS) INTO seeOSD .
EXECUTE .
RECODE
cmvar121
(0=0) (1=4) (2=7) (3=10) (4=15) (5=26) (6=40) (7=65) (8=90)
(9=SYSMIS) INTO seeOSE .
EXECUTE .
COMPUTE seeodf = 0 .
EXECUTE .
COMPUTE seeosf = 0 .
EXECUTE .

```

\*calculation of overall contrast scores for each eye\*.

```

COMPUTE seetotOD = ((0 + seeoda / 2) * 1.5) + (((seeoda + seeodb) / 2) * 1.5) + (((seeodb + seeodc) /
2) * 3) + (((seeodc + seeodd) / 2) * 6) + (((seeodd + seeode) / 2) * 6) + (((seeode + seeodf) / 2) * 6) .
EXECUTE .
COMPUTE seetotOS = ((0 + seeosa / 2) * 1.5) + (((seeosa + seeosb) / 2) * 1.5) + (((seeosb + seeosc) /
2) * 3) + (((seeosc + seeosd) / 2) * 6) + (((seeosd + seeose) / 2) * 6) + (((seeose + seeosf) / 2) * 6) .
EXECUTE .

```

#### Syntax for computation of variables for use in analyses

\*calculation of contrastscore for best eye\*.

```

IF (seetotod >= seetotos) seeodbe = seetotod .
EXECUTE .
IF (seetotos > seetotod) seeosbe = seetotos .
EXECUTE .
IF (seetotod < seetotos) seeodbe = 0 .
EXECUTE .
IF (seetotos <= seetotod) seeosbe = 0 .
EXECUTE .
COMPUTE seetotbe = seeodbe + seeosbe .
EXECUTE .

```

\*cutoff points for contrastvalue (5%, 10% and 20%)\*.

```

RECODE
seetotbe
(Lowest thru 113.25=1) (113.26 thru Highest=0) INTO seetotd1 .
EXECUTE .
RECODE
seetotbe
(Lowest thru 158.25=1) (158.26 thru Highest=0) INTO seetotd2 .
EXECUTE .
RECODE
seetotbe
(Lowest thru 208.5=1) (208.51 thru Highest=0) INTO seetotd3 .
EXECUTE .

```

\*calculation of seeabe (contrast value for 1,5 degrees/cycle of best eye)\*.

```
IF (seeoda>= seeosa) seeodab = seeoda .  
EXECUTE .  
IF (seeosa>seeoda) seeosab = seeosa .  
EXECUTE .  
IF (seeoda<seeosa) seeodab = 0 .  
EXECUTE .  
IF (seeosa<= seeoda) seeosab = 0 .  
EXECUTE .  
COMPUTE seeabe = seeodab + seeosab .  
EXECUTE .
```

\*calculation of seebbe (contrast value for 3 degrees/cycle of best eye)\*.

```
IF (seeodb>= seeosb) seeodbb = seeodb .  
EXECUTE .  
IF (seeosb>seeodb) seeosbb = seeosb .  
EXECUTE .  
IF (seeodb<seeosb) seeodbb = 0 .  
EXECUTE .  
IF (seeosb<= seeodb) seeosbb = 0 .  
EXECUTE .  
COMPUTE seebbe = seeodbb + seeosbb .  
EXECUTE .
```

\* calculation of seetotlf\*.

```
COMPUTE seetotlf = (seeabe + seebbe) / 2 .  
EXECUTE .
```