

Reliability Analysis Example

Syntax Example

(The first part of this handout illustrates some syntax transformations of the data and are needed for the homework. Only the highlighted section at the bottom would be necessary for a reliability analysis).

```
get file='c:\jason\spsswin\usp532\ahca.sav'.

value labels q15 q15b q15c q15d
  1 'same day' 2 '1-3 days' 3 '4-7 days'
  4 '8-14 days' 5 '15-20 days' 6 '21-28 days' 7 '29 days or longer'
  8 'no experience'
/q2 0 '0-6 months' 1 '6 mo to 1 yr' 2 '1-2 yrs' 3 '2-5 yrs'
  4 '5 yrs or more'
/q3 0 'none' 1 '1 visit' 2 '2-4 visits' 3 '5-9 visits' 4 '10+ visits'
/q7f 1 'no experience' 2 'poor' 3 'fair' 4 'good' 5 'very good' 6 'excellent'
/q11 1 'completely satisfied' 2 'very satisfied' 3 'somewhat satisfied'
  4 'neither satisfied nor dissatisfied' 5 'somewhat dissatisfied' 6 'very dissatisfied'
  7 'completely dissatisfied'
/q14 1 'definitely yes' 2 'probably yes' 3 'probably no' 4 'definitely no' 5 'already switched'
/q13 1 'definitely yes' 2 'probably yes' 3 'probably no' 4 'definitely no'
/hp 12 'HMO 1' 24 'HMO 2' 26 'HMO 3'
/q38 1 '8th grade or less' 2 'some hs' 3 'hs grad or ged'
  4 'some college or 2 yr degree' 5 '4 yr college grad' 6 'more than 4 yr degree'.

missing values q7f (1)
  /q14 (5)
  /q15 q15b q15c q15d (8).

recode q11 (1=7) (2=6) (3=5) (4=4) (5=3) (6=2) (7=1) into q11r.
recode q15 (1=7) (2=6) (3=5) (4=4) (5=3) (6=2) (7=1) into q15r.
recode q15b (1=7) (2=6) (3=5) (4=4) (5=3) (6=2) (7=1) into q15br.
recode q15c (1=7) (2=6) (3=5) (4=4) (5=3) (6=2) (7=1) into q15cr.
recode q15d (1=7) (2=6) (3=5) (4=4) (5=3) (6=2) (7=1) into q15dr.
recode q13 (1=4) (2=3) (3=2) (4=1) into q13r.

variable labels q11r 'How satisfied with overall plan'
  /q13r 'Recommend health plan'
  /q15r 'Days waiting for routine care'
  /q15br 'Days waiting for minor injury or illness'
  /q15cr 'Days waiting for chronic care'
  /q15dr 'Days waiting for urgent care'.

value labels q11r 7 'completely satisfied' 6 'very satisfied' 5 'somewhat satisfied'
  4 'neither satisfied nor dissatisfied' 3 'somewhat dissatisfied' 2 'very dissatisfied'
  1 'completely dissatisfied'
/q13r 4 'definitely yes' 3 'probably yes' 2 'probably no' 1 'definitely no'
/q15r q15br q15cr q15dr
  7 'same day' 6 '1-3 days' 5 '4-7 days'
  4 '8-14 days' 3 '15-20 days' 2 '21-28 days' 1 '29 days or longer'.

frequencies vars=q11r q13r q15r to q15dr.

reliabilities vars=q11r q13r q15r to q15dr
  /scale(satisf)=q11r q13r q15r to q15dr
  /statistics=corr
  /summary=total corr.
```

Output

(Frequency output omitted)

Reliability

Warnings

The covariance matrix is calculated and used in the analysis.

Case Processing Summary

		N	%
Cases	Valid	159	26.6
	Excluded ^a	439	73.4
	Total	598	100.0

a. Listwise deletion based on all variables in the procedure.

Reliability Statistics

Cronbach's Alpha	Cronbach's Alpha Based on Standardized Items	N of Items
.663	.702	6

(Inter-item correlation matrix omitted---good to check it though to make sure all items are scored in the same direction)

Summary Item Statistics

	Mean	Minimum	Maximum	Range	Maximum / Minimum	Variance	N of Items
Inter-Item Correlations	.282	.062	.763	.701	12.306	.044	6

The covariance matrix is calculated and used in the analysis.

Item-Total Statistics

	Scale Mean if Item Deleted	Scale Variance if Item Deleted	Corrected Item-Total Correlation	Squared Multiple Correlation	Cronbach's Alpha if Item Deleted
q11r How satisfied with overall plan	27.7798742	12.704	.361	.588	.657
q13r Recommend health plan	29.8427673	15.703	.440	.588	.610
q15r Days waiting for routine care	27.5911950	14.370	.344	.224	.643
q15br Days waiting for minor injury or illness	26.7295597	15.654	.517	.407	.594
q15cr Days waiting for chronic care	26.8742138	14.085	.462	.461	.594
q15dr Days waiting for urgent care	26.2138365	17.258	.416	.250	.631