CRRS v1 Administration and Scoring Guidelines

Administration:

The CRRS is designed for caregiver self-administration. Caregivers should be instructed to read the brief directions at the top of the page. After the caregiver's correct understanding has been confirmed, he/she should be encouraged to complete every item in order without skipping any. Some caregivers may feel that a given question is not applicable to them and will therefore skip the item altogether. **Caregivers should be encouraged to circle the response that is most applicable.** If, for example, a caregiver does not have any caregiving responsibilities other than to the patient, they should circle "not at all" to the question "I am less able to fulfil my other caregiving responsibilities".

Only caregivers who are **currently employed** should complete the Jobs and Career subscale.

It is likely that the CRRS is appropriate for interview administration by appropriately trained interviewers however the psychometric properties and statistical equivalence have not been tested across mode of administration (self vs. interview).

Scoring the CRRS:

The CRRS scoring guide identifies those items that must be reversed before being added to obtain subscale totals. Negatively stated items are reversed by subtracting the response from "4". After reversing proper items, all subscale items are summed to a total, which is the subscale score with higher scores indicated better QOL.

Please note three items CS57, CS1 and Sp9 do not contribute to a subscale score. A total score can be calculated as the sum of the un-weighted five core subscale scores: Support and Impact; Lifestyle; Emotional Health and Wellbeing; Self-care and Financial Wellbeing. The total score can be calculated using all 41 items or excluding the three standalone items, either score showed the predicted strength of correlation with measures for criterion and convergent validity. The Jobs and Career subscale should be treated as a standalone score and not included in any total score.

Handling missing items:

If there are missing items, subscale scores can be prorated. This is done by multiplying the sum of the subscale by the number of items in the subscale, then dividing by the number of items actually answered. This can be done on the scoring guide or by using the formula below:

Prorated subscale score = [Sum of item scores] x [N of items in subscale] ÷ [N of items answered]

When there are missing data, prorating by subscale in this way is acceptable as long as <u>more than</u> 50% of the items were answered (e.g., a minimum of 3 of 5 items, 4 of 6 items, etc). The total score is then calculated as the sum of the un-weighted five core subscale scores: Support and Impact; Lifestyle; Emotional Health and Wellbeing; Self-care and Financial Wellbeing. The <u>overall item response rate</u> should be greater than 80% (i.e. at least 33 of 41 core CRRS items completed). This is not to be confused with individual subscale item response rate, which allows a subscale score to be prorated for missing items if greater than 50% of items are answered. In addition, a total score should only be calculated if ALL of the component subscales have valid scores. The Jobs and Career subscale should be treated as a standalone score and not included in any total score.

CRRS v1 Scoring Guidelines (Version 1)

- 1. Record answers in "item response" column. If missing, mark with an X
- 2. Perform reversals as indicated, and sum individual items to obtain a score
- 3. Multiply the sum of the item scores by the number of items in the subscale, then divide by the number of items answered. This produces the subscale score.
- 4. Add subscale scores ± standalone item scores to derive total CRRS score. Note, the Jobs and Careers subscale is not included in the total score. *The higher the score, the better the QOL*.

e.g. The negatively stated item CO7 "My caregiving responsibilities are a burden" is reverse scored, so an item response "4" would receive an item score 4 - 4 = 0.

Subscale	item	Reverse	item		item	
	Code	Item?	Response		Score	
Support and Impact	CS56	0 +		=		
	CS22	0 +		=		
	CS55	0 +		=		
	CS24	0 +		=		
	CS21	0 +		=		
	CS53	0 +		=		
Subscale score		Sum	individual sc	ores:		
Score range 0-24	Multiply by 6:					
-	Divide b	y number of	fitems answe	-		
Subscale	Item	Reverse	Item		Item	
Jubacaie	Code	Item?	Response		Score	
Lifestyle	CO1	0 +	Response	=	30016	
LifeStyle	CS2	4 -		_		
	CO7	4 -		=		
	CO9	4 -		=		
	CO2	4 -		=		
	CO4	0 +		=		
	CO5	4 -		=		
	GF6	0 +		=		
	GF7	0+		=		
	CH4	4 -		=		
	CH5	4 -		=		
Subscale score		Sum	individual co	orec:		
Score range 0-44	Sum individual scores: Multiply by 11:					
Jeore runge 0-44	Divide by number of items answered:					
	Divide by number of items answered:					

Subscale	Item	Reverse	Item		Item
	Code	Item?	Response		Score
Emotional Health and	CO8	4 -		=	
Wellbeing	CO6	4 -		=	
	CH11	4 -		=	
	C010	4 -		=	
	GE1	4 -		=	
	CH6	4 -		=	
	CH8	4 -		=	
	CH7	4 -		=	
	CR3	4 -		=	
Subscale score		Sum	individual sco	nrec.	
Score range 0-36	Sum individual scores:				
Score range 0-30	Multiply by 9: Divide by number of items answered:				
	Divide b	y Hulliber O	i itellis aliswe	ieu.	
Subscale	Item	Reverse	Item		Item
Subscale	Code	Item?	Response		Score
Self-Care	CR4	0 +	Response	_	30016
Sell-Care	CR4 CR6			=	
		4 -		=	
	CH9	0 +		=	
	CH1	0 +		=	
	CH2	0 +		=	
	CH3	0 +		=	
Subscale score		Sum	individual cod	vroc:	
Score range 0-24	Sum individual scores:				
Score range o 24	Multiply by 6: Divide by number of items answered:				
	Divide b	y Humber O	i itemis answe	ieu.	
Subscale	Item	Reverse	Item		Item
	Code	Item?	Response		Score
Financial Wellbeing	FT3	4 -		=	
	FT11	0+		=	
	CF1	0+		=	
	CF2	4 -		=	
	CF3	4 -		=	
	CF4	4 -		=	
	CIT	寸 ⁻		_	
Subscale score		Sum	individual sco	res:	
Score range 0-24			Multiply l		
-			' '	•	

Divide b	oy number	of items	answered:	

Subscale	Item	Reverse	Item	Item	
	Code	Item?	Response	Score	
Jobs and Career*	CE3	4 -		=	
	CE4	4 -		=	
	CE5	0 +		=	
	CE7	4 -		=	
	FT9	4 -		=	
	PE4	0 +		=	
	PE7	0 +		=	
Subscale score	Sum individual scores:				
Score range 0-28	Multiply by 7:			7:	
	Divide by number of items answered:			ed:	

^{*} Only completed by those in current employment

TOTAL SCORE*:

Score range 0-152

^{*} The Jobs and Career subscale should be treated as a standalone score and not included in any total score. This total score excludes the three standalone items CS57, CS1 and Sp9. These scores can be added to the total if desired for a CRRS-41 total score.