

<b>Reviewer ID:</b> Emily Procter/Nicole Elfring/Bryce Jay/Gita Manhas/Risa Fox			
<b>Type of Outcome Measure:</b> Knowledge, Comfort, Approach and Attitudes towards Sexuality Scale (KCAASS)			<b>Total articles:</b> 3
<b>Author ID Year</b>	<b>Study Design</b>	<b>Setting</b>	<b>Population (sample size, age) and Group</b>
Kendall et al. 2003	Tool development	Queensland SCI service, Australia	N=90 Staff groups: 58 nursing, 5 medical, 2 social workers, 5 PT, 1 PT assistant, 3 OT, 1 OT assistant, 7 transitional rehab program staff and 8 spinal outreach team staff.
Fronek et al. 2005	Randomized controlled trial	Queensland SCI service, Australia	N=89 (44 treatment participants, 45 control participants) Treatment group: 31 nurses, 1 medical practitioner, 6 allied health staff, 6 community staff Control group: 32 nurses, 2 medical practitioners, 5 allied health and 6 community staff members
Rahman et al. 2016	Tool Development	General Hospital of Kuala Lumpur, Sungai Buloh Hospital, and Universiti Kebangsaan Malaysia Medical Center, Malaysia	N=549 Staff groups: 48 medical doctors, 278 nurses, 109 occupational therapists, and 109 physiotherapists
<b>1. RELIABILITY</b>			
<b>Author ID</b>	<b>Internal Consistency</b>	<b>Test-retest, Inter-rater, Intra-rater</b>	
Kendall, et al. 2003	Internal consistency was calculated using Cronbach's alpha and the values for the four factors (knowledge, comfort, attitudes and approach) were 0.926, 0.977, 0.835 and 0.802, respectively.  Composite score: $\alpha=0.962$	No data available	
Fronek et al. 2005	Knowledge: $\alpha=0.929$ Comfort: $\alpha=0.972$ Approach: $\alpha=0.865$ Attitude: $\alpha=0.641$	No data available	
Rahman et al. 2016	Internal consistency was calculated using Cronbach's alpha and it determined that the extracted variables were acceptable reliable. The values for attitude, approach, comfort, and knowledge were 0.852, 0.785, 0.966, and 0.905 respectively.	No data available	
<b>2. VALIDITY</b>			
<b>Author ID</b>	<b>Validity</b>		
Kendall	A draft questionnaire was developed from a review of the literature and previous specific work. Initially, there		

<p>et al. 2003</p>	<p>were 16, 32 and 14 items in the areas of staff knowledge, staff comfort and staff attitudes towards sexuality, respectively.</p> <p>Principal components factor analysis with varimax rotation resulted in a five factor solution (knowledge, comfort, attitudes, approach and appropriateness), which accounted for 66% of the variance. The last factor was discarded.</p> <p>Item analysis: Item subscale scores (SS) were generally higher than item total scores (TS) and all were significant at the <math>p &lt; 0.01</math> level. Knowledge – Item Subscale Score=0.547 to 0.804; Item Total Score=0.306 to 0.691 Comfort – Subscale Score =0.609 to 0.903; Item Total Score =0.573 to 0.865 Approach – Subscale Score =0.707 to 0.817; Item Total Score =0.341 to 0.607 Attitude – Subscale Score =0.730 to 0.821; Item Total Score =0.382 (<math>P &lt; .01</math>) and 0.240 (<math>P &lt; .05</math>). *Only 2 of 5 items were significant.</p> <p>Correlations were higher between a subscale and the composite scores of the remaining 3 subscales compared to between 2 individual subscales. Subscale-total correlations: Knowledge-total=0.757 Comfort-total=0.938 Approach-total=0.676 Attitude-total=0.297</p> <p>The authors stress that the low correlations between individual subscales are important when it comes to staff training programs, in that focusing on one of these subscales may not help assuage issues of the other subscales and a holistic approach is needed.</p>
<p>Rahman et al. 2016</p>	<p>After constrained to the four factors solution, the cumulative percentage variance extracted from the measurements were 56.35%. The 42-42 items exceeded the threshold 0.40 of factor loading for indicating a practically significant and valid, whereas two items were removed from this analysis due to the factor loading <math>&lt; 0.40</math>. The communalities value for the items remains in this analysis also above 0.30 (range: 0.316-0.843) indicating the acceptable share variance among the items. Kaiser-Meyer-Okin (KMO) value index <math>&gt; 0.50</math> was used to determine that the data was suitable for an exploratory factor analysis (EFA).</p>

**3. RESPONSIVENESS**

Author ID	Responsiveness
<p>Fronek et al. 2005</p>	<p>Pre and Post education subscale scores (knowledge, comfort, approach, and attitude) all showed significant change at <math>P &lt; .001</math>. Pre and 3 month follow-up subscale scores (knowledge, comfort, approach, and attitude) showed significant change at <math>P &lt; .001</math>, except attitude at <math>P &lt; .01</math>.</p>

**4. FLOOR/CEILING EFFECT – no data available**

**5. INTERPRETABILITY**

Author ID	Interpretability																		
<p>Kendall et al. 2003</p>	<p>Means and standard deviations for the four subscales of KCAASS</p> <table border="1" data-bbox="228 1623 1008 1816"> <thead> <tr> <th>Subscale:</th> <th>Mean (SD) score:</th> <th>Range:</th> </tr> </thead> <tbody> <tr> <td>Knowledge</td> <td>34.31 (7.01)</td> <td>17-53</td> </tr> <tr> <td>Comfort</td> <td>69.30 (15.00)</td> <td>26-84</td> </tr> <tr> <td>Approach</td> <td>10.86 (3.31)</td> <td>5-20</td> </tr> <tr> <td>Attitude</td> <td>17.58 (2.32)</td> <td>5-20</td> </tr> <tr> <td>Total</td> <td>132.06 (22.30)</td> <td>67-171</td> </tr> </tbody> </table>	Subscale:	Mean (SD) score:	Range:	Knowledge	34.31 (7.01)	17-53	Comfort	69.30 (15.00)	26-84	Approach	10.86 (3.31)	5-20	Attitude	17.58 (2.32)	5-20	Total	132.06 (22.30)	67-171
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<p>Fronek et al. 2005</p>	<p>Median (Interquartile Range) on each subscale of the KCAASS for treatment and control groups at 3 data collection points:</p>																		

<b>Subscale &amp; Group:</b>	<b>Prior to Education:</b>	<b>Following Education:</b>	<b>3 month follow-up:</b>
<b><i>Knowledge</i></b>			
Treatment	34.00 (7.50)	42.00 (7.00)**	42.00 (6.50)**
Control	35.50 (5.75)	37.50 (7.50)	36.00 (7.00)
<b><i>Comfort</i></b>			
Treatment	69.00 (24.50)	76.00 (18.00)**	77.00 (19.00)**
Control	78.50 (16.50)	77.50 (18.75)	73.50 (21.25)
<b><i>Approach</i></b>			
Treatment	11.00 (6.00)	14.00 (5.00) **	13.00 (4.00)**
Control	12.50 (6.50)	13.50 (5.00)	12.00 (5.50)
<b><i>Attitude</i></b>			
Treatment	17.00 (3.00)	19.00 (2.50) **	18.00 (3.00)**
Control	18.00 (3.25)	18.00 (3.25)	17.50 (3.00)

\*\* significantly different to pre-education score at P<.01