

| Reviewer ID: Nicole Elfring, Marzena Zhou, Gurmaan Gill, Joanne Chi | | | |
|--|--|--|--|
| Type of Outcome Measure: Skin Management Need Assessment Checklist (SMNAC) | | | Total articles: 4 |
| Author ID Year | Study Design | Setting | Population (sample size, age) and Group |
| Berry & Kennedy 2003 | Methodological, consecutive series study | Tertiary care, spinal cord injury centre (National Spinal Injuries Centre), Stoke Mandeville Hospital, UK. | N=43 (38M, 5F) Mean age=42.19±14.6 13.9% complete tetraplegia 37.2% incomplete tetraplegia 23.3% complete paraplegia 25.6% incomplete paraplegia Mean (SD) time since injury = 17.5 (13.2) weeks |
| Berry et al. 2004 | Methodological consecutive series study | Spinal Cord Injuries rehabilitation unit | N=317 Mean age=41±17.4 Traumatic or non-traumatic SCI |
| Gelis et al. 2011 | Methodological cross-cultural adaptation and reliability study | Not specified | N=138 (103M, 35F) Mean age: 45.9±14.9y Mean time since injury = 94 months SCI AIS A: 83 AIS B: 16 AIS C: 15 AIS D: 14 <i>(Note: above AIS scores do not add up to total sample size but the article reported these numbers)</i> Lesion level: 49 cervical, 89 upper and lower back Etiology: 112 traumatic, 26 medical |
| Gelis et al. 2018 | Cross-sectional study | Six spinal cord centres | N=132, 75% male Mean age (SD): 45.9 (14.9) Mean duration (SD): 7.8 (10) 103 traumatic 29 non-traumatic AIS level: 84 level A 17 level B 16 level C 15 level D |
| 1. RELIABILITY | | | |
| Author ID | Internal Consistency | Test-retest, Inter-rater, Intra-rater | |
| Berry & Kennedy 2003 | No data available | Test-retest (Pearson's r correlation): | |
| | | Subscale: | r: |
| | | ADL | 0.884 |

| | | | |
|-------------------|-------------------|---|--------------|
| | | Skin management | 0.904 |
| | | Bladder management | 0.694 |
| | | Bowel management | 0.783 |
| | | Mobility | 0.883 |
| | | Wheelchair and equipment | 0.883 |
| | | Community preparation | 0.830 |
| | | Discharge coordination | 0.805 |
| | | Psychological issues | 0.748 |
| Berry et al. 2004 | $\alpha = 0.851$ | | |
| Gelis et al. 2011 | No data available | Test-retest: ICC=0.899 (CI 95%: 0.862-0.927). | |
| Gelis et al. 2018 | $\alpha = 0.907$ | | |

2. VALIDITY

| Author ID | Validity |
|-------------------|---|
| Berry et al. 2004 | Subgroups: Negative correlation between age and skin management except individuals with complete tetraplegia. Correlations: incomplete tetraplegia (r = -0.22, n=100, P=.029, 2 tailed), complete paraplegia (r = -0.22, n=81, P=.045, 2 tailed), and incomplete paraplegia (r = -0.27, n=84, P=.013, 2 tailed) No significant difference between gender and SMnac scores. |
| Gelis et al. 2018 | Correlations of modified SMNAC with: Rosenberg scale: r = 0.25 Active coping: r = 0.29 HADS: r = -0.43 Time since injury: r = 0.49 |

3. RESPONSIVENESS

| Author ID | Responsiveness |
|-------------------|---|
| Berry et al. 2004 | Significant differences between first score and second scores (mean days =103±66) using paired-sample t-test (t = -24.38, df = 186, P<.001) |

4. FLOOR/CEILING EFFECT – no data available

5. INTERPRETABILITY

| Author ID | Interpretability | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------|---|------------------|-------------------------|------------|------------|-----|---------------|------|-------|------------------------|----------------------|-------------|-------------|--------------------|--------------|------|-------|------------------|--------------|------|------|----------|---------------|------|-------|--------------------------|---------------|------|-------|-----------------------|---------------|------|-------|------------------------|---------------|-------|-------|----------------------|--------------|------|-------|
| Berry & Kennedy 2003 | SMNAC score and clinically relevant values (SEM and MDC calculated from data obtained from Berry & Kennedy 2003): | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | <table border="1"> <thead> <tr> <th>Subscale:</th> <th>Mean (SD) score:</th> <th>SEM</th> <th>MDC</th> </tr> </thead> <tbody> <tr> <td>ADL</td> <td>59.07 (25.88)</td> <td>8.81</td> <td>24.43</td> </tr> <tr> <td>Skin management</td> <td>25.67 (10.54)</td> <td>3.27</td> <td>9.05</td> </tr> <tr> <td>Bladder management</td> <td>22.81 (7.23)</td> <td>4.00</td> <td>11.09</td> </tr> <tr> <td>Bowel management</td> <td>13.91 (6.27)</td> <td>2.92</td> <td>8.10</td> </tr> <tr> <td>Mobility</td> <td>24.28 (13.30)</td> <td>4.55</td> <td>12.61</td> </tr> <tr> <td>Wheelchair and equipment</td> <td>46.09 (27.27)</td> <td>9.33</td> <td>25.86</td> </tr> <tr> <td>Community preparation</td> <td>39.28 (12.73)</td> <td>5.25</td> <td>14.55</td> </tr> <tr> <td>Discharge coordination</td> <td>47.86 (25.52)</td> <td>11.27</td> <td>31.24</td> </tr> <tr> <td>Psychological issues</td> <td>45.49 (7.99)</td> <td>4.01</td> <td>11.12</td> </tr> </tbody> </table> | Subscale: | Mean (SD) score: | SEM | MDC | ADL | 59.07 (25.88) | 8.81 | 24.43 | Skin management | 25.67 (10.54) | 3.27 | 9.05 | Bladder management | 22.81 (7.23) | 4.00 | 11.09 | Bowel management | 13.91 (6.27) | 2.92 | 8.10 | Mobility | 24.28 (13.30) | 4.55 | 12.61 | Wheelchair and equipment | 46.09 (27.27) | 9.33 | 25.86 | Community preparation | 39.28 (12.73) | 5.25 | 14.55 | Discharge coordination | 47.86 (25.52) | 11.27 | 31.24 | Psychological issues | 45.49 (7.99) | 4.01 | 11.12 |
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