

Supplemental Material S2. Select outcome measures and instruments used in studies of AAC interventions in critical & acute care.

Anxiety and Comfort	<p>State Anxiety Inventory (Spielberger et al., 1971; Yavuz & Gursoy, 2021)</p> <p>Hospital Anxiety and Depression Scale (Hossieni et al., 2018; Koszalinski et al., 2019; Snaith, 2003)</p> <p>Anxiety Hamilton Scale (Erfan et al., 2018; Hamilton, 1959)</p> <p>Faces Anxiety Scale (McKinley et al., 2004)</p> <p>Perianesthesia Comfort Scale (Kolcaba & Kolcaba, 1991; Wilson & Kolcaba, 2004; Yavuz & Gursoy, 2021)</p>
Pain	<p>Behavioural Pain Scale (Payen et al., 2021; Ull et al., 2020)</p> <p>Visual Analog Scale for Pain (VAS Pain) (Hawker et al., 2011; Ull et al., 2020)</p> <p>Numeric Rating Scale for Pain (NRS Pain) (Hawker et al., 2011; Ull et al., 2020)</p> <p>Patient Communication Tool (El-Soussi et al., 2014; Patak et al., 2006)</p> <p>Nurse Communication Survey (Happ et al., 2015; Sereika et al., 2008)</p>
Sedation, Confusion, Agitation	<p>Richmond Agitation Sedation Scale (RASS) (Ely et al., 2003; Garry et al., 2016; Rodriguez et al., 2012; Sessler et al., 2002; Ull et al., 2020)</p> <p>Confusion Assessment Method for the Intensive Care Unit (CAM-ICU) (Ely et al., 2003; Garry et al., 2016; Rodriguez et al., 2012; Sessler et al., 2002)</p> <p>Glasgow Coma Scale (Happ et al., 2015; Teasdale & Jennett, 1974; Yavuz & Gursoy, 2021)</p> <p>Coma-free days (Happ et al., 2015; Pandharipande et al., 2007)</p>

<p>Psychosocial Impact and Quality of Life</p>	<p>Voice-Related Quality of Life (V-RQOL) (Haring et al., 2021; Hogikyan & Sethuraman, 1999)</p> <p>European Quality of Life 5 Dimensions 5 Level Score (EQ-5D-5L) (Herdman et al., 2011; Ull et al., 2020)</p> <p>Psychosocial Impact of Assistive Devices Scale (Garry et al., 2016; Hy, 1996; Jutai & Day, 2002; Jutai et al., 2000; Calgari et al., 2013)</p> <p>Visual analogue self-esteem scale (VASES) (Brumfitt & Sheeran, 1999; Ull et al., 2020)</p>
<p>Communication Ease, Satisfaction, Suitability Perceptions</p>	<p>Ease of Communication Scale (Happ et al., 2004, 2014; Hossieni et al., 2018; Menzel, 1998; Montazeri et al., 2003; Trotta et al., 2020)</p> <p>The Communication Satisfaction Scale (Tantacharoenat et al., 2018)</p> <p>The Suitability for Use Scale (Tantacharoenat et al., 2018)</p> <p>Patient Satisfaction and Usability Instrument (Demers et al., 1999, 2002; Rodriguez & Rowe, 2010; Rodriguez et al., 2012)</p> <p>Usability of Communication Intervention Form (Rodriguez & Rowe, 2010; Rodriguez et al., 2012)</p> <p>Patient Perception Scale (Kaur et al., 2018)</p>
<p>Communication Frequency, Quality, Success</p>	<p>Needs Expression Assessment Questionnaire (Erfan et al., 2018)</p> <p>Ratings of aggregated nurse-patient communication acts (Burgio et al., 2001; De los Ríos Castillo & Sánchez-Sosa, 2002; Happ et al., 2014; Morse et al., 2003; Topf, 1986)</p> <p>Communication frequency (Ashworth, 1980, Garrett & Beukelman, 1995; Garrett & Huth, 2002; Happ et al., 2014; Light et al., 1992)</p> <p>Communication quality according to total positive and negative nurse behaviors and</p>

	<p>rate of AAC use (De los Ríos Castillo & Sánchez-Sosa, 2002; Hall, 1996; Happ et al., 2014; Salyer & Stuart, 1985)</p> <p>Communication success (Garrett & Beukelman, 1995; Garrett & Huth, 2002; Happ et al., 2014; Light et al., 1992)</p> <p>Communication transcription coding (Calculator & Luchko, 1983; Happ et al., 2014)</p>
Communication Methods Used	<p>The Communication Methods Checklist (Happ et al., 2004; Menzel, 1998)</p> <p>Communication Observation Form (Otuzoglu & Karahan, 2014; Patak et al., 2006; Yavuz & Gursoy, 2021)</p>
Duration of Ventilation and Cost	Ventilator-free days and cost of ventilation duration (Happ et al., 2015; Rubenfeld et al., 1999; Seaman et al., 2012)

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