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Egen Klassifikation Scale Version 2 (EK2)

Availability:	Freely available but must contact creator/copyright holder: Birgit F Steffersen at bist@rcfm.dk
Classification:	Supplemental - Highly recommended for Congenital Muscular Dystrophy specifically for studies involving adolescents and adults with CMD.
Short Description of Instrument:	<p>The Egen Klassifikation scale was designed to measure functional ability in non-ambulant DMD. It examined activities and abilities such as transfers, trunk mobility, wheelchair use, bed mobility, cough, well-being, and the original scale of 1–10 items showed good validity and reliability using traditional methods of psychometric analysis. The scale was extended in 2008 by adding seven items to capture functional ability specifically related to feeding, bulbar issues and distal hand function. At the same time items 1–10 were revised to update the scale in relation to advances in equipment and respiratory management.</p> <p>Construct measured: Activities of daily living - measure of functional ability for non ambulatory individuals</p> <p>Disease specific measure for non ambulatory individuals with DMD and SMA. Used to plan & evaluate effect of interventions.</p>
Scoring / Administration information:	<p>Questionnaire of 10 questions, each has 4 responses on level of difficulty in performing a task. Questions assess patient’s ability to use wheelchair, transfer from wheelchair, ability to stand, balance on wheelchair, move arms, use hands/arms for eating, turn in bed, cough, and speak, as well as their physical well being.</p> <p>Score: 0 is better; 30 is worse.</p> <p>Equipment needs: Pen and paper only.</p> <p>Time to administer: Approximately 10 minutes.</p> <p>Validated in English</p> <p>EK of 21 or higher predicted high risk for introduction to noninvasive ventilation in DMD patients.</p>
Special Comments:	<p>Limitation: not validated for CMD</p> <p>Advantage: may still be applicable to non-ambulatory patients.</p>

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References:	<p>A.G. Mayhew, M. Eagle. , B. Steffenson. S.P.6 Exploratory Rasch analysis of the EK2 scale used in a population of Duchenne muscular dystrophy (DMD). Volume 22, Issue 9, Page 877, October 2012.</p> <p>Connolly AM, Malkus EC, Mendell JR, Flanigan KM, Miller JP, Schierbecker JR, Siener CA, Golumbek PT, Zaidman CM, McDonald CM, Johnson L, Nicorici A, Karachunski PI, Day JW, Kelecic JM, Lowes LP, Alfano LN, Darras BT, Kang PB, Quigley J, Pasternak AE, Florence JM; and MDA DMD Clinical Research Network.Outcome reliability in non ambulatory boys/men with duchenne muscular dystrophy.Muscle Nerve. 2014 Jul 24.</p> <p>Werlauff U, Fynbo Steffensen B.The applicability of four clinical methods to evaluate arm and hand function in all stages of spinal muscular atrophy type II. Disabil Rehabil. 2014 Mar 3</p> <p>Steffensen B1, Hyde S, Lyager S, Mattsson E. Validity of the EK scale: a functional assessment of non-ambulatory individuals with Duchenne muscular dystrophy or spinal muscular atrophy. Physiother Res Int. 2001;6(3):119-34.</p> <p>Brunherotti MA, Sobreira C, Rodrigues-Júnior AL, de Assis MR, Terra Filho J, Baddini Martinez JA. Correlations of Egen Klassifikation and Barthel Index scores with pulmonary function parameters in Duchenne muscular dystrophy. Heart Lung. 2007 Mar-Apr;36(2):132-9.</p>
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