4 Využití hodnoticích a měřicích nástrojů u pacientů s tělesným znevýhodněním

kap. 4: 10.32725/zsf.2021.74228179.02

Jan Neugebauer

University of South Bohemia in České Budějovice, Faculty of Health and Social Sciences, Institute of Nursing, Midwifery and Emergency Care, České Budějovice, Czech Republic

Souhrn

Tělesné znevýhodnění je multifaktoriálním fenoménem prolínajícím mnoho vědních oborů. V české klinické praxi se ošetrovatelství zaměřuje na holisticko-humanistický přístup, a proto je potřeba hodnotit tuto problematiku komplexně. Vzhledem k nejasnosti terminologie je potřeba si uvědomit rozdílnost mezi poškozením (impairment), postižením (handicap) a znevýhodněním (disability). Samotné hodnocení by se poté mělo odvíjet od oblastí, které jsou poškozeny, postiženy nebo znevýhodněny.

V klinické praxi se využívá mnoho standardizovaných nástrojů pro hodnocení aktuálního zdravotního stavu a rizik vznikajících v důsledku reverzibilního i ireverzibilního tělesného znevýhodnění. Jako nejvíce rozšířené standardizované nástroje pro účely hodnocení rizik se v klinické praxi využívají Norton scale, Braden scale pro hodnocení rizika vzniku dekubitů; Morse Fall Scale, Tinetti test a Conley scale pro hodnocení rizika pádu; Barthel test a IADL pro hodnocení soběstačnosti. V zahraniční literatuře i klinické praxi je doporučováno využít nástroje pro hodnocení znevýhodnění (WHODAS 2.0, MDS), které poskytují nejen pohled na znevýhodněné oblasti, ale i na úroveň znevýhodnění.

Výsledky naší studie prokázaly souvislost mezi vzděláním sester, používáním hodnoticích nástrojů, edukací sester v klinické praxi a doporučením nástrojů pro hodnocení pacientů s tělesným znevýhodněním v celé ČR. Sestry s vysokoškolským vzděláním pracují více se standardizovanými hodnoticími nástroji a doporučují je pro klinickou praxi, podobně i sestry, které prošly edukací o problematice tělesného znevýhodnění. Sestry se středoškolským vzděláním používají pouze nástroje, které jsou nařízené managementem zdravotnického zařízení jako povinná součást dokumentace.

Klíčová slova: hodnoticí nástroje, měřicí nástroje, pacient, tělesné znevýhodnění, vzdělání sester

Podkapitoly:

4.1 Filozofie a pochopení pojmu tělesné znevýhodnění

4.1.1 Vývoj terminologie

4.1.2 Klasifikace tělesného znevýhodnění

4.2 Hodnocení potřeb u pacientů s tělesným znevýhodněním

4.2.1 Hodnocení pacientů s tělesným znevýhodněním v souvislosti se vzděláním sester

4.2.2 Hodnocení soběstačnosti

- 4.2.3 Hodnocení rizika pádu
- 4.2.4 Hodnocení rizika vzniku dekubitů
- 4.2.5 Hodnocení znevýhodnění
- 4.2.6 Sebehodnocení pacientů s tělesným znevýhodněním
- 4.3 Postoj sester k pacientům s tělesným znevýhodněním
 - 4.3.1 Poskytovaná péče pacientům s tělesným znevýhodněním v klinické praxi
 - 4.3.2 Edukace pacientů s tělesným znevýhodněním
 - 4.3.3 Edukace osob pečujících o pacienty s tělesným znevýhodněním
- 4.4 Edukace sester o problematice tělesného znevýhodnění
- 4.5 Souvislosti s používáním nástrojů v klinické praxi

Literatura

1. Almeida, L. R. S., et al. (2015). Disability is an Independent Predictor of Falls and Recurrent Falls in People with Parkinson's Disease Without a History of Falls: A One-Year Prospective Study. *J Parkins Dis* 5(4): 855–864. DOI: 10.3233/JPD-150651.
2. Aloweni, F., et al. (2018). A prediction tool for hospital-acquired pressure ulcers among surgical patients: Surgical pressure ulcer risk score. *Int Wound J* 16(1): 164–175. DOI: 10.1111/iwj.13007.
3. Anastasiou, D., Kauffman, J. M. (2013). The Social Model of Disability: Dichotomy between Impairment and Disability. *J Med Philos* 38(4): 441–459. DOI: 10.1093/jmp/jht026.
4. Appelgren, M., et al. (2018). Nurses' experiences of caring for patients with intellectual developmental disorders: a systematic review using a meta-ethnographic approach. *BMC Nursing* 17: 51. DOI: 10.1186/s12912-018-0316-9.
5. Aranda-Gallardo, M., et al. (2013). Instruments for assessing the risk of falls in acute hospitalized patients: a systematic review protocol. *J Adv Nurs* 69(1): 185–193. DOI: 10.1111/j.1365-2648.2012.06104.x.
6. Aronovitch, S. A., et al. (1992). Investigation of the Knoll Assessment Scale in a tertiary care facility. *Decubitus* 5(3): 70–72.
7. Artico, M., et al. (2017). Prevalence, incidence and associated factors of pressure ulcers in home palliative care patients: A retrospective chart review. *Palliat Med* 32(1): 299–307. DOI: 10.1177/0269216317737671.
8. Ayello, E. A., Braden, B. (2002). How and Why to Do Pressure Ulcer Risk Assessment. *Adv Skin Wound Care* 15(3): 125–131. DOI: 10.1097/00129334-200205000-00008.
9. Baart, J., et al. (2020). Quality of Life of Persons with Disabilities in Southern Nations, Nationalities, and Peoples' Region, Ethiopia. *Disability, CBR & Inclusive Development* 30(3): 5–18. DOI: 10.5463/DCID.V30I3.879.
10. Baek, S., et al. (2014). Validity of the Morse Fall Scale implemented in an electronic medical record system. *J Clin Nurs* 23(17–18): 2434–2440. DOI: 10.1111/jocn.12359.
11. Bahadori, M., et al. (2016). The barriers to the application of the research findings from the nurses' perspective: A case study in a teaching hospital. *J Educ Health Promot* 5: 14. DOI: 10.4103/2277-9531.184553.
12. Bachani, A. M., et al. (2014). A new screening instrument for disability in low-income and middle-income settings: application at the Iganga-Mayuge Demographic Surveillance System (IM-DSS), Uganda. *BMJ Open* 4(12): e005795. DOI: 10.1136/bmjopen-2014-005795.
13. Bickenbach, J., et al. (2012). ICF CORE SETS Manual for Clinical Practice. Nottwil: Switzerland.
14. Bogart, K. R. (2014). The role of disability self-concept in adaptation to congenital or acquired disability. *Rehabil Psychol* 59(1): 107–115. DOI: 10.1037/a0035800.

15. Bóriková, I., et al. (2018). The risk of falling among older adults in long-term care: screening by Morse Fall Scale. *Kontakt* 20(2): e111–e119. DOI: 10.1016/j.kontakt.2017.11.006.
16. Boyles, C. M., et al. (2008). Representation of disability in nursing and healthcare literature: an integrative review. *J Adv Nurs* 62(4): 428–437. DOI: 10.1111/j.1365-2648.2008.04623.x.
17. Braden, B., Bergstrom, N. (1987). Conceptual schema for the study of the etiology of pressure sores. *Rehabil Nurs* 12(1): 8–12. DOI: 10.1002/j.2048-7940.1987.tb00541.x.
18. Brienza, D., et al. (2018). Predictors of pressure ulcer incidence following traumatic spinal cord injury: a secondary analysis of a prospective longitudinal study. *Spinal Cord* 56(1): 28–34. DOI: 10.1038/sc.2017.96.
19. Brynes, N., et al. (2017). Improvement of Patient- and Family-Specific Care for Children with Special Behavioral Needs in the Emergency Setting: A Behavioral Needs Education. *J Emerg Nurs* 43(3): 202–207. DOI: 10.1016/j.jen.2016.07.010.
20. Carlozzi, N. E., et al. (2015). Validity of the 12-item World Health Organization Disability Assessment Schedule 2.0 (WHODAS 2.0) in individuals with Huntington disease (HD). *Qual Life Res* 24(1): 1963–1971. DOI: 10.1007/s11136-015-0930-x.
21. Carvalho-Pinto, B. P. B., Faria, C. D. C. M. (2016). Health, function and disability in stroke patients in the community. *Braz J Phys Ther* 20(4). DOI: 10.1590/bjpt-rbf.2014.0171.
22. Cichosz, S. L., et al. (2019). Prediction of In-Hospital Pressure Ulcer Development. *Adv Wound Care* 8(1): 1–6. DOI: 10.1089/wound.2018.0803.
23. Clasper, J., Ramasamy, A. (2013). Traumatic amputations. *Br J Pain* 7(2): 67–73. DOI: 10.1177/2049463713487324.
24. Conley, D., et al. (1999). The challenge of predicting patients at risk for falling: development of the Conley Scale. *Medsurg Nurs* 8(6): 348–354.
25. Corrado, B., et al. (2020). Evidence-Based Practice in Rehabilitation of Myasthenia Gravis. A Systematic Review of the Literature. *J Funct Morphol Kinesiol* 5(4): 71. DOI: 10.3390/jfmk5040071.
26. Cullati, S., et al. (2019). When Team Conflicts Threaten Quality of Care: A Study of Health Care Professionals' Experiences and Perceptions. *Mayo Clin Proc Innov Qual Outcomes* 3(1): 43–51. DOI: 10.1016/j.mayocpiqo.2018.11.003.
27. Curcio, F., et al. (2016). Tinetti mobility test is related to muscle mass and strength in non-institutionalized elderly people. *Age (Dordr)* 38(5–6): 525–533. DOI: 10.1007/s11357-016-9935-9.
28. Curley, M. A. Q., et al. (2018). Predicting Pressure Injury Risk in Pediatric Patients: The Braden QD Scale. *J Periatr* 192: 189–195.e2. DOI: 10.1016/j.jpeds.2017.09.045.
29. Davis, K. L., Davis, D. D. (2020). Disability Determination And Impairment Rating. StatPearls: StatPearls Publishing.
30. de Azevedo Macena, M. S., et al. (2017). Pressure Ulcer Risk Evaluation in Critical Patients: Clinical and Social Characteristics. *Open Nurs J* 11: 91–97. DOI: 10.2174/1874434601711010091.
31. De Beaudrap, P., et al. (2017). Prevalence of HIV infection among people with disabilities: a population-based observational study in Yaoundé, Cameroon (HandiVIH). *Lancet HIV* 4(4): e161–e168. DOI: 10.1016/S2352-3018(16)30209-0.
32. de Gouveia Santos, V. L. C., et al. (2018). Risk Assessment in Pressure Ulcers, s. 57–77. In: Romanelli, M., et al. *Science and Practice of Pressure Ulcer Management*. London: Springer. DOI: 10.1007/978-1-4471-7413-4_5.
33. DeSilva, M., et al. (2016). Congenital anomalies: Case definition and guidelines for data collection, analysis, and presentation of immunization safety data. *Vaccine* 34(49): 6015–6025. DOI: 10.1016/j.vaccine.2016.03.047.
34. Ehrmann, C., et al. (2018). Describing Functioning in People Living With Spinal Cord Injury in Switzerland: A Graphical Modeling Approach. *Arch Phys Med Rehabil* 99(10): 1965–1981. DOI: 10.1016/j.apmr.2018.04.015.

35. Fässberg, M. M., et al. (2016). A systematic review of physical illness, functional disability, and suicidal behaviour among older adults. *Aging Ment Health* 20(2): 166–194. DOI: 10.1080/13607863.2015.1083945.
36. Fazel, F. S., et al. (2018). Predictive Value of Braden Risk Factors in Pressure Ulcers of Outpatients With Spinal Cord Injury. *Acta Med Iran* 56(1): 56–61.
37. Fernández-López, J. A., et al. (2010). Quality of life, health and well-being conceptualizations from the perspective of the International Classification of Functioning, disability and health (ICF). *Rev Esp Salud Pública* 84(2): 169–184. DOI: 10.1590/s1135-57272010000200005.
38. Fiatarone, M. A., Evans, W. J. (1993). The Etiology and Reversibility of Muscle Dysfunction in the Aged. *J Gerontol* 48(Special Issue): 77–83. DOI: 10.1093/geronj/48.special_issue.77.
39. Forjuoh, S. (2001). Injury prevention in people with disabilities. *BMJ* 322(7292): 940–941. DOI: 10.1136/bmj.322.7292.940.
40. Gabriel, S., et al. (2019). Prevalence and associated factors of intertrigo in aged nursing home residents: a multi-center cross-sectional prevalence study. *BMC Geriatr* 19(1): 105. DOI: 10.1186/s12877-019-1100-8.
41. Gažiová, M. (2013). Jednotný postup proti dekubitom. *Sestra* 12(1–2): 12–14.
42. GBD 2017 Disease and Injury Incidence and Prevalence Collaborators (2018). Global, regional, and national incidence, prevalence, and years lived with disability for 354 diseases and injuries for 195 countries and territories, 1990–2017: a systematic analysis for the Global Burden of Disease Study 2017. *Lancet* 392(10159): 1789–1858. DOI: 10.1016/S0140-6736(18)32279-7.
43. Goering, S. (2015). Rethinking disability: the social model of disability and chronic disease. *Curr Rev Musculoskelet Med* 8(2): 134–138. DOI: 10.1007/s12178-015-9273-z.
44. Gould, L. J., et al. (2019). Pressure ulcer summit 2018: An interdisciplinary approach to improve our understanding of the risk of pressure-induced tissue damage. *Wound Repair Regen* 27(5): 497–508. DOI: 10.1111/wrr.12730.
45. Grigorian, A., et al. (2018). Pressure Ulcer in Trauma Patients: A Higher Spinal Cord Injury Level Leads to Higher Risk. *J Am Coll Clin Wound Spec* 9(1–3): 24–31.e1. DOI: 10.1016/j.jccw.2018.06.001.
46. Griswold, L. H., et al. (2017). Validity of the Braden Scale in grading pressure ulcers in trauma and burn patients. *J Surg Res* 219: 151–157. DOI: 10.1016/j.jss.2017.05.095.
47. Gulley, S. P., et al. (2018). At the intersection of chronic disease, disability and health services research: A scoping literature review. *Disab Health J* 11(2): 192–203. DOI: 10.1016/j.dhjo.2017.12.012.
48. Haladová, E., Nechvátalová, L. (2010). *Vyšetřovací metody hybného systému*. Brno: Národní centrum ošetrovatelství a nelékařských zdravotnických oborů, 135 s.
49. Hansen, A. E., Marcus, N. J. (2018). How and why Hans Kraus, MD, helped President Kennedy's back pain. *J Neurosurg Spine* 28(6): 688–689. DOI: 10.3171/2017.9.SPINE17838.
50. Hardiker, N. R., et al. (2000). Standards for nursing terminology. *J Am Med Inform Assoc* 7(6): 523–528. DOI: 10.1136/jamia.2000.0070523.
51. Hopkins, R. O., et al. (2017). Instrumental Activities of Daily Living after Critical Illness: A Systematic Review. *Ann Am Thor Soc* 14(8): 1332–1343. DOI: 10.1513/AnnalsATS.201701-059SR.
52. Hum, A. M., Premasari, A. A. (2020). Handicap and Disability: What is the Difference? *IJLIT* 3(1): 163–167.
53. Chang, K.-H., et al. (2015). Association between muscle power impairment and WHODAS 2.0 in older adults with physical disability in Taiwan. *Disabil Rehabil* 37(8): 712–720. DOI: 10.3109/09638288.2014.940428.
54. Charalambous, C., et al. (2018). Evaluation of the Validity and Reliability of the Waterlow Pressure Ulcer Risk Assessment Scale. *Med Arch* 72(2): 141–144. DOI: 10.5455/medarh.2018.72.141-144.
55. Cheung, M. K. T., et al. (2015). Validation of the World Health Organization Assessment Schedule II Chinese Traditional Version (WHODAS II CT) in persons with disabilities and chronic illnesses for Chinese population. *Disabil Rehabil* 37(20): 1902–1907. DOI: 10.3109/09638288.2014.989336.

56. Chow, S. K. Y., et al. (2007). Evaluation of the Morse Fall Scale: Applicability in Chinese hospital populations. *Int J Nurs Stud* 44(4): 556–565. DOI: 10.1016/j.ijnurstu.2005.12.003.
57. Ireland, P., Johnston, L. M. (2012). Measures of Self-Care Independence for Children with Osteochondrodysplasia: A Clinimetric Review. *Phys Occup Ther Pediatr* 32(1): 80–96. DOI: 10.3109/01942638.2011.593619.
58. Jablensky, A. (2009). Handicap and Disability: words versus concepts. *Disability and Rehabilitation*, 22(11): 513–514. DOI: 10.1080/096382800414023.
59. Jasemi, M., et al. (2017). A concept analysis of holistic care by hybrid model. *Indian Palliat Care* 23(1): 71–80. DOI: 10.4103/0973-1075.197960.
60. Jaul, E., et al. (2018). An overview of co-morbidities and the development of pressure ulcers among older adults. *BMC Geriatrics*, 18(1).
61. Jehu, D., et al. (2020). Risk factors for recurrent falls in older adults: a study protocol for a systematic review with meta-analysis. *BMJ Open* 10(5): e033602. DOI: 10.1136/bmjopen-2019-033602.
62. Kalligerou, F., et al. (2020). Assessing functional status using the IADL-extended scale: results from the HELIAD study. *Int Psychogeriatr* 32(4): 541. DOI: 10.1017/S1041610219001558.
63. Kalter, H. (1998). Misused terminology. *Reprod Toxicol* 12(4): 496–498. DOI: 10.1016/s0890-6238(98)00029-x.
64. Keller, P. B., et al. (2002). Pressure ulcers in intensive care patients: a review of risks and prevention. *Intensive Care Medicine* 28(10): 1379–1388. DOI: 10.1007/s00134-002-1487-z.
65. Kendíková, J., Vosmik, M. (2013). Jak zvládnout problémy dětí se školou? Praha: Pasparta, 112 s.
66. Kertay, L. (2019). Administrative Issues and Perspective: Impairment Ratings and Disability Determinations. *Phys Med Rehabil Clin N Am* 30(3): 499–509. DOI: 10.1016/j.pmr.2019.03.001.
67. Klimetti, M., et al. (2008). Tension neck and evaluation of a physical training course among office workers in a bank corporation. *J Adv Nurs* 26(5): 962–967. DOI: 10.1046/j.1365-2648.1997.00390.x.
68. Koenders, N., et al. (2019). Exploring barriers to physical activity of patients at the internal medicine and surgical wards: a retrospective analysis of continuously collected data. *Disabil Rehabil* 1–7. DOI: 10.1080/09638288.2019.1685013.
69. Köpke, S., Meyer, G. (2006). The Tinetti test: Babylon in geriatric assessment. *Z Gerontol Geriatr* 39(4): 288–291. DOI: 10.1007/s00391-006-0398-y.
70. Kraus, J., et al. (2014). Léze mozkových nervů u dětí. *Periatr praxi* 15(1): 31–34.
71. Krawczyk, P., et al. (2016). Ortoticko-protetické léčení tělesně postižených dětí – komplexní péče. *Pohybové ústrojí* 23(1): 49–80.
72. Krishnan, S., et al. (2017). Association between presence of pneumonia and pressure ulcer formation following traumatic spinal cord injury. *J Spinal Cord Med* 40(4): 415–422. DOI: 10.1080/10790268.2016.1180099.
73. Kuvalekar, K., et al. (2015). Quality of Life among Persons with Physical Disability in Udupi Taluk: A Cross Sectional Study. *J Family Med Prim Care* 4(1): 69–73. DOI: 10.4103/2249-4863.152258.
74. Larsson, I. E., et al. (2011). Patients' perceptions of barriers for participation in nursing care. *Scand J Caring Sci* 25(3): 575–582. DOI: 10.1111/j.1471-6712.2010.00866.x.
75. Lewis, G. M., et al. (2012). Pressure ulcers and risk assessment in severe burns. *J Burn Care Res* 33(5): 619–623. DOI: 10.1097/BCR.0b013e31825d5538.
76. Li, D., et al. (2018). Reliability and validity Munro Scale on the assessment. *Int J Clin Exp Med* 11(9): 9811–9818.
77. Liddiard, K. (2013). The work of disabled identities in intimate relationships. *Disability & Society* 29(1): 115–128. DOI: 10.1080/09687599.2013.776486.
78. Lima-Serrano, M., et al. (2018). Predictive validity and reliability of the Braden scale for risk assessment of pressure ulcers in an intensive care unit. *Med Intensiva (Engl Ed)* 42(2): 82–91. DOI: 10.1016/j.medin.2016.12.014.

79. Lisowska, B. (2017). How to measure disability: survey usability versus usefulness. Development initiatives. Development Initiatives Poverty Research. [online] [cit. 2021-01-22]. Dostupné z: <https://devinit.org/blog/measure-disability-survey-usability-versus-usefulness/>
80. Liu, W., et al. (2015). Optimizing Eating Performance for Long-Term Care Residents With Dementia: Testing the Impact of Function-Focused Care for Cognitively Impaired. *J Am Med Dir Assoc* 16(12): 1062–1068. DOI: 10.1016/j.jamda.2015.06.023.
81. Loeb, M. (2016). Development of Disability Measures for Surveys: The Washington Group Extended Set on Functioning. *International Measurement of Disability*, pp. 97–122. DOI: 10.1007/978-3-319-28498-9_7.
82. López, M., et al. (2018). Relationship between pressure ulcer risk based on Norton Scale and on the “Eating/Drinking” need assessment. *J Nurs Manag* 27(1): 117–124. DOI: 10.1111/jonm.12655.
83. López-Entrambasaguas, O. M., et al. (2019). Newly Qualified Nurses' Perception of Their Competency Achievement on Leaving University: A Qualitative Study. *Int J Environ Res Public Health* 16(21): 4284. DOI: 10.3390/ijerph16214284.
84. Lovallo, C., et al. (2010). Accidental falls in hospital inpatients: evaluation of sensitivity and specificity of two risk assessment tools. *J Adv Nurs* 66(3): 690–696. DOI: 10.1111/j.1365-2648.2009.05231.x.
85. Lu, S.J., et al. (2019). Determinants of Employment Outcome for the People with Schizophrenia Using the WHODAS 2.0. *J Occup Rehabil* 29(2): 375–383. DOI: 10.1007/s10926-018-9794-6.
86. Mactaggart, I., et al. (2017). A population-based survey of visual impairment and its correlates in Mahabubnagar district, Telangana State, India. *Ophthalmic Epidemiol* 25(3): 238–245. DOI: 10.1080/09286586.2017.1418386.
87. Madans, J. H. (2016). *The Washington Group's Contribution to Disability Statistics and a Look to the Future*. Cham: Springer International Publishing.
88. Mahalingam, S., et al. (2014). Improving pressure ulcer risk assessment and management using the Waterlow scale at a London teaching hospital. *J Wound Care* 23(12): 613–622. DOI: 10.12968/jowc.2014.23.12.613.
89. Maich, K., Sider, S. (2019). *Special Education Needs and Disabilities in Secondary Education (Canada)*, s. 1. Bloomsbury Publishing. DOI: 10.5040/9781474209441.0054.
90. Mallah, Z., et al. (2015). The Effectiveness of a Pressure Ulcer Intervention Program on the Prevalence of Hospital Acquired Pressure Ulcers: Controlled Before and After Study. *Appl Nurs Res* 28(2): 106–113. DOI: 10.1016/j.apnr.2014.07.001.
91. Maritz, R., et al. (2017). The International Classification of Functioning, Disability and Health (ICF) in Electronic Health Records. *Appl Clin Inform* 8(3): 964–980. DOI: 10.4338/ACI2017050078.
92. Maruyama, K., et al. (2010). Bone fracture in physically disabled children attending schools for handicapped children in Japan. *Environ Health Prev Med* 15(3): 135–140. DOI: 10.1007/s12199-009-0121-x.
93. Mayoral, A. P. (2019). The use of Barthel index for the assessment of the functional recovery after osteoporotic hip fracture: One year follow-up. *PloS One* 14(2): e0212000. DOI: 10.1371/journal.pone.0212000.
94. McCord, S., et al. (2004). Risk factors associated with pressure ulcers in the pediatric intensive care unit. *J Wound Ostomy Continence Nurs* 31(4): 179–183. DOI: 10.1097/00152192-200407000-00005.
95. McNamara, J. K., et al. (2011). A longitudinal study of kindergarten children at risk for reading disabilities: the poor really are getting poorer. *J Learn Disabil* 44(5): 421–430. DOI: 10.1177/0022219411410040.
96. Mikula, J., Müllerová, M. (2008). *Prevence dekubitů*, Praha: Grada, 96 s.
97. Miller, K. (2016). Summary of Washington Group Question Evaluation Studies. *International Measurement of Disability* 61: 69–84.
98. MKN-10 – Mezinárodní statistická klasifikace nemocí a přidružených zdravotních problémů (2008). Ústav zdravotnických informací a statistiky České republiky. Praha: Bomtom Agency.

99. Mlinac, M. E., Feng, M. C. (2016). Assessment of Activities of Daily Living, Self-Care, and Independence. *Arch Clin Neuropsychol* 31(6): 506–516. DOI: 10.1093/arclin/acw049.
100. Moen, V. P., et al. (2017). Validation of World Health Organization Assessment Schedule 2.0 in specialized somatic rehabilitation services in Norway. *Qual Life Res* 26(2): 505–514. DOI: 10.1007/s11136-016-1384-5.
101. Molton, I. R., Yorkston, K. M. (2017). Growing Older With a Physical Disability: A Special Application of the Successful Aging Paradigm. *J Gerontol B Psychol Sci Soc Sci* 72(2): 290–299. DOI: 10.1093/geronb/gbw122.
102. Moore, Z. E. H., Cowman, S. (2014). Risk assessment tools for the prevention of pressure ulcers. *Cochrane Database Syst Rev* (2): CD006471. DOI: 10.1002/14651858.CD006471.pub3.
103. Moore, Z. E. H., Patton, D. (2019). Risk assessment tools for the prevention of pressure ulcers. *Cochrane Database Syst Rev* 2019(1): CD006471. DOI: 10.1002/14651858.CD006471.pub4.
104. Mörchén, M., et al. (2019). Disability-Disaggregated Data Collection: Hospital-Based Application of the Washington Group Questions in an Eye Hospital in Paraguay. *Int J Environ Res Public Health* 16(17): 3085. DOI: 10.3390/ijerph16173085.
105. Morse, J. M. (2009). Preventing patient falls: establishing a fall intervention program. New York: Springer Pub. Co.
106. Morse, J. M., et al. (1989). A prospective study to identify the fall-prone patient. *Soc Sci Med* 28(1): 81–86.
107. MPSV ČR (2020). Úmluva OSN o právech osob se zdravotním postižením. Ministerstvo práce a sociálních věcí. [online] [cit. 2020-01-05]. Dostupné z: <https://www.mpsv.cz/umluva-osn-o-pravech-osob-se-zdravotnim-postizenim>
108. Müller, O. (Ed.) a kol. (2014). *Terapie ve speciální pedagogice*. 2., přeprac. vyd., Praha: Grada, 512 s.
109. Nazarko, L. (2018). Prevention of pressure ulcers in community care settings. *Independent Nurse* 7. DOI: 10.12968/indn.2018.7.24.
110. Neugebauer, J., Bártlová, S. (2019). Existuje stigmatizace v ošetrovateľské profesi? *Kontakt* 21(3): 263–268. DOI: 10.32725/kont.2019.037.
111. Neugebauer, J., Tóthová, V. (2019). Physical disabilities in nursing – the use of selected tools to monitor physically disabled patients' needs. *Kontakt* 21(4): 344–351. DOI: 10.32725/kont.2019.032.
112. Neugebauer, J., Tóthová, V. (2020). Assessment of pressure ulcers in physically handicapped patients. *Developments in Health Sciences*.
113. Neugebauer, J., et al. (2021a) Postoj sester k pacientům s tělesným znevýhodněním. *Zdravotnické listy* [v tisku].
114. Neugebauer, J., et al. (2021b) Pressure Ulcer Assessment: Relationship between Education and Use of the Standardized Tools. *J Nurs Scholars* [v recenzním řízení].
115. Neugebauer, J., et al. (2021c). Use of Standardized and Non-Standardized Tools for Measuring the Risk of Falls and Independence in Clinical Practice. *Int J Environ Res Public Health* 18(6): 3226. DOI: 10.3390/ijerph18063226.
116. Neugebauer, J., et al. (2021d) Sebereflexe potřeb pacientů s tělesným znevýhodněním v průběhu hospitalizace. *Praktický lékař* 101(1): 17–20.
117. Neugebauer, J., et al. (2021e). Vnímání svého zdraví – pohled pacientů s tělesným znevýhodněním. *Logos Polytechnikos* [v recenzním řízení].
118. Neugebauer, J., et al. (2021f). Hodnocení vybraných aspektů pacienty s tělesným znevýhodněním. *Logos Polytechnikos* 12(1): 75–85.
119. Neugebauer, J., et al. (2021g). Vnímání potřeb pacienty s tělesným znevýhodněním. In: *Sborník abstraktů: VII. ročník Studentské vědecké konference*. České Budějovice: Jihočeská univerzita v Českých Budějovicích, Zdravotně sociální fakulta.
120. Ningsih, W., et al. (2018). Self-Care Training Improves the Attitudes and Skills of Caregivers for Children with Physical Disability. *J Ners* 13(1): 9–17. DOI: 10.20473/jn.v13i1.5613.

121. Noh, J.-W., et al. (2016). Relationship between Physical Disability and Depression by Gender: A Panel Regression Model. *PloS One* 11(11): e0166238. DOI: 10.1371/journal.pone.0166238.
122. Novosad, L. (2011). Tělesné postižení jako fenomén i životní realita: diskurzivní pohledy na tělo, tělesnost, pohyb, člověka a tělesné postižení. Praha: Portál, 166 s.
123. O'Brien, G., et al. (2018). The relationship between nurses assessment of early pressure ulcer damage and sub epidermal moisture measurement: A prospective explorative study. *J Tissue Viability* 27(4): 232–237. DOI: 10.1016/j.jtv.2018.06.004.
124. O'Connell, B., Myers, H. (2002). The sensitivity and specificity of the Morse Fall Scale in an acute care setting. *J Clin Nurs* 11(1): 134–136. DOI: 10.1046/j.1365-2702.2002.00578.x.
125. Ong, S. R., et al. (2018). Physical activity, visual impairment, and eye disease. *Eye* 32(8): 1296–1303. DOI: 1038/s41433-018-0081-8.
126. Ovayolu, O. U., et al. (2012). The relationship between self-care agency, disability levels and factors regarding these situations among patients with rheumatoid arthritis. *J Clin Nurs* 21(1–2): 101–110. DOI: 10.1111/j.1365-2702.2011.03710.x.
127. Palese, A., et al. (2016). Post-hoc validation of the Conley Scale in predicting the risk of falling with older in-hospital medical patients: findings from a multicentre longitudinal study. *Aging Clin Exp Res* 28(1): 139–146. DOI: 10.1007/s40520-015-0378-4.
128. Pancorbo-Hidalgo, P. L., et al. (2018). Prevalence of pressure injuries and other dependence-related skin lesions among paediatric patients in hospitals in Spain. *EWMA Journal* 19(2): 29–37.
129. Parveen, H., Noohu, M. M. (2017). Evaluation of psychometric properties of Tinetti performance-oriented mobility assessment scale in subjects with knee osteoarthritis. *Hong Kong Physiother J* 36: 25–32. DOI: 10.1016/j.hkpj.2016.07.001.
130. Peacock, G., et al. (2015). Health Care for Americans with Disabilities – 25 Years after the ADA. *N Engl J Med* 373(10): 892–893. DOI: 10.1056/NEJMp1508854.
131. Pellicciari, L., et al. (2019). A Rasch analysis of the Conley Scale in patients admitted to a general hospital. *Disabil Rehabil* 41(23): 2807–2816. DOI: 10.1080/09638288.2018.1478000.
132. Perera, N., Agboola, S. (2019). Are formal self-care interventions for healthy people effective? A systematic review of the evidence. *BMJ Glob Health* 4(Suppl. 10): e001415. DOI: 10.1136/bmjgh-2019-001415.
133. Perkins, Z. B., et al. (2012). Factors affecting outcome after traumatic limb amputation. *The Br J Surg* 99(Suppl. 1): 75–86. DOI: 10.1002/bjs.7766.
134. Persson, M., et al. (2017). Risk of major congenital malformations in relation to maternal overweight and obesity severity: cohort study of 1.2 million singletons. *BMJ Clin Res* 375: 2563. DOI: 10.1136/bmj.j2563.
135. Porcel-Gálvez, A. M., et al. (2018). Psychometric Testing of INTEGRARE, an Instrument for the Assessment of Pressure Ulcer Risk in Inpatients. *Int J Nurs Knowl* 29(3): 165–170. DOI: 10.1111/2047-3095.12173.
136. Preskitt, J. K., et al. (2013). Underinsurance in children with special health care needs: the impact of definition on findings. *Matern Child Health J* 17(8): 1478–1487. DOI: 10.1007/s10995-012-1155-z.
137. Rabinovitz, E., et al. (2016). Norton scale for predicting prognosis in elderly patients undergoing transcatheter aortic valve implantation: A historical prospective study. *J Cardiol* 67(6): 519–525. DOI: 10.1016/j.jjcc.2016.01.017.
138. Rajati, F., et al. (2018). Quality of life predictors in physically disabled people. *J Educ Health Promot* 7: 61. DOI: 10.4103/jehp.jehp_115_17.
139. Rivolta, M. W., et al. (2019). Evaluation of the Tinetti score and fall risk assessment via accelerometry-based movement analysis. *Artif Intell Med* 95: 38–47. DOI: 10.1016/j.artmed.2018.08.005.
140. Rondinelli, R. D., Eskay-Auerbach, M. (2019). Medical Impairment, Disability Evaluation, and Associated Medicolegal Issues. *Phys Med Rehabil Clin N Am* 30(3): xv–xvi. DOI: 10.1016/j.pmr.2019.05.001.

141. Sabariego, C. (2017). The role of the World Bank and WHO Model Disability Survey in public health. *Public Health Forum* 25(4): 262–264. DOI: 10.1515/pubhef-2017-0039.
142. Salmond, S. W., Echevarria, M. (2017). Healthcare Transformation and Changing Roles for Nursing. *Orthop Nurs* 36(1): 12–25. DOI: 10.1097/NOR.0000000000000308.
143. Sampson, E. L., et al. (2017). Living and dying with advanced dementia: A prospective cohort study of symptoms, service use and care at the end of life. *Palliat Med* 32(3): 668–681. DOI: 10.1177/0269216317726443.
144. Sancher-Ferreira, M., et al. (2018). Conditions for Implementing the ICF-CY in Education: The Experience in Portugal. *Frontiers in Education* 3(20). DOI: 10.3389/feduc.2018.00020.
145. Sardo, P. M., et al. (2016). Fall risk assessment: retrospective analysis of Morse Fall Scale scores in Portuguese hospitalized adult patients. *Appl Nurs Res* 31: 34–40. DOI: 10.1016/j.apnr.2015.11.013.
146. Sayar, S., et al. (2009). Incidence of pressure ulcers in intensive care unit patients at risk according to the Waterlow scale and factors influencing the development of pressure ulcers. *J Clin Nurs* 18(5): 765–774. DOI: 10.1111/j.1365-2702.2008.02598.x.
147. Shannon, R. J., et al. (2012). Pressure Ulcer Prevention Program Study: a randomized, controlled prospective comparative value evaluation of 2 pressure ulcer prevention strategies in nursing and rehabilitation centers. *Adv Skin Wound Care* 25(10): 450–464. DOI: 10.1097/01.ASW.0000421461.21773.32.
148. Schneider, M., et al. (2009). Measuring disability in censuses: The case of South Africa [Mesurer le handicap dans les recensements: le cas de l’Afrique du Sud]. *Alter* 3(3): 245–265. DOI: 10.1016/j.alter.2009.04.002.
149. Schuntermann, M. F. (1996). The international classification of impairments, disabilities and handicaps (ICIDH) results and problems. *Int J Rehabil Res* 19(1): 1–11. DOI: 10.1097/00004356-199603000-00001.
150. Simo Fotso, A., et al. (2019). A comparative analysis of disability measures in Cameroonian surveys. *Popul Health Metr* 7: 16. DOI: 10.1186/s12963-019-0198-4.
151. Skogestad, I. J., et al. (2017). Supplementing the Braden scale for pressure ulcer risk among medical inpatients: the contribution of self-reported symptoms and standard laboratory tests. *J Clin Nurs* 26(1–2): 202–214. DOI: 10.1111/jocn.13438.
152. Sloman, A., Margaretha, M. (2018). The Washington Group Short Set of Questions on Disability in Disaster Risk Reduction and humanitarian action: Lessons from practice. *Int J Disaster Risk Reduct* 31(1): 995–1003. DOI: 10.1016/j.ijdr.2018.08.011.
153. Smith, S. K., et al. (2018). Evaluation of a multifactorial approach to reduce the prevalence of pressure injuries in regional Australian acute inpatient care settings. *Int Wound J* 15(1): 95–105. DOI: 10.1111/iwj.12840.
154. Soanes, C. (2003). *The Compact Oxford English Dictionary of Current English*. Oxford: University Press.
155. Sprunt, B., et al. (2019). The UNICEF/Washington Group Child Functioning Module—Accuracy, Inter-Rater Reliability and Cut-Off Level for Disability Disaggregation of Fiji’s Education Management Information System. *Int J Environ Res Public Health* 16(5): 806. DOI: 10.3390/ijerph16050806.
156. Stavsky, M., et al. (2017). Cerebral Palsy-Trends in Epidemiology and Recent Development in Prenatal Mechanisms of Disease, Treatment, and Prevention. *Front Pediatr* 5: 21. DOI: 10.3389/fped.2017.00021.
157. Sturgill, B., et al. (2019). Braden score may be associated with time to onset of catheter-associated urinary tract infection in high-risk patients: Lessons learned from a root cause analysis tool. *Am J Infect Control* 47(3): 343–345. DOI: 10.1016/j.ajic.2018.09.002.
158. Suprani, R., Taglioni, M. (2014). [Scale Mosaic: Definition and Testing of a Tool for Assessing the Risk of Falling and the Care Planning During Hospitalization]. *Prof Inferm* 67(2): 95–105. DOI: 10.7429/pi.2014.672095.
159. Šáteková, L., Žiaková, K. (2016). Inter-rater Reliability of Items of the Braden Scale, the Norton scale and Waterlow Scale. *Profese Online* 9(2): 10–15. DOI: 10.5507/pol.2016.007.

160. Šáteková, L., et al. (2015). Predictive validity of the Braden scale, Norton scale and Waterlow scale in Slovak Republic. *Cent Eur J Nurs Midwifery* 6(3): 283–290. DOI: 10.15452/CEJNM.2015.06.0017.
161. Šáteková, L., et al. (2017). Predictive validity of the Braden Scale, Norton Scale, and Waterlow Scale in the Czech Republic. *Int J Nurs Pract* 23(1): e12499. DOI: 10.1111/ijn.12499.
162. Tanimura, C., et al. (2017). Self-care agency, lifestyle, and physical condition predict future frailty in community-dwelling older people. *Nurs Health Sci* 20(1): 31–38. DOI: 10.1111/nhs.12376.
163. Tatli, H. U., et al. (2019). Validation and application of the international classification of functioning, core set for spinal cord injury in the Turkish patients. *Turk J Phys Med Rehabil* 65(3): 244–258. DOI: 10.5606/tftrd.2019.3045.
164. Teng, S.-W., et al. (2013). Evolution of system for disability assessment based on the International Classification of Functioning, Disability, and Health: A Taiwanese study. *J Formos Med Assoc* 112(11): 691–698. DOI: 10.1016/j.jfma.2013.09.007.
165. Thomas, H., et al. (2018). Definition of whole person care in general practice in the English language literature: a systematic review. *BMJ Open*, 8(12): e023758. DOI: 10.1136/bmjopen-2018-023758.
166. Tinetti, M. E. (2003). Clinical Practice. Preventing Falls in Elderly Persons. *N Engl J Med* 348(1): 42–49. DOI: 10.1056/NEJMc020719.
167. Tinetti, M. E., et al. (1995). Risk Factors for Serious Injury During Falls by Older Persons in the Community. *J Am Geriatr Soc* 43(11): 1241–1221. DOI: 10.1111/j.1532-5415.1995.tb07396.x.
168. Tomata, Y., et al. (2014). Impact of the 2011 Great East Japan Earthquake and Tsunami on functional disability among older people: a longitudinal comparison of disability prevalence among Japanese municipalities. *J Epidemiol Community Health* 68(6): 530–533. DOI: 10.1136/jech-2013-203541.
169. Tomlinson, S. (2015). Is a sociology of special and inclusive education possible? *Educ Rev* 67(3): 1–9. DOI: 10.1080/00131911.2015.1021764.
170. Topinková, E. (2005). *Geriatric pro praxi*. Praha: Galén, 270 s.
171. Towey, A. P., Erland, S. M. (1988). Validity and reliability of an assessment tool for pressure ulcer risk. *Decubitus* 1(2): 40–48.
172. Trani, J.-F., et al. (2015). Development and Validation of the 34-Item Disability Screening Questionnaire (DSQ-34) for Use in Low and Middle Income Countries Epidemiological and Development Surveys. *PloS One* 10(12): e0143610. DOI: 10.1371/journal.pone.0143610.
173. Tucha, O. (2017). Supporting patients with ADHD: Missed opportunities? *Atten Defic Hyperact Disord* 9(2): 69–71. DOI: 10.1007/s12402-017-0233-x.
174. UNTC (2020). Convention of the Rights of Persons with Disabilities. United Nations Treaty Collection. [online] [cit. 2021-01-22]. Dostupné z: https://treaties.un.org/Pages/showDetails.aspx?objid=080000028017bf87&clang=_en
175. Urbanetto, J. S., et al. (2017). Analysis of risk prediction capability and validity of Morse Fall Scale Brazilian version. *Rev Gaucha Enferm* 37(4): e62200. DOI: 10.1590/1983-1447.2016.04.62200.
176. Ustün, T. B., et al. (2010). Developing the World Health Organization Disability Assessment Schedule 2.0. *Bull World Health Organ* 88(11): 815–823. DOI: 10.2471/BLT.09.067231.
177. Van Oyen, H., et al. (2018). Measuring disability: a systematic review of the validity and reliability of the Global Activity Limitations Indicator (GALI). *Arch Public Health* 76(1): 25. DOI: 10.1186/s13690-018-0270-8.
178. Vanleit, B. (2009). Using the ICF to address needs of people with disabilities in international development: Cambodian case study. *Disabil Rehabil* 30(12–13): 991–998. DOI: 10.1080/09638280701800251.
179. Vítková, M., a kol. (1998). *Integrativní speciální pedagogika*. Brno: Paido, 181 s.
180. Wall, J., Colley, T. (2003). Preventing pressure ulcers among wheelchair users: preliminary comments on the development of a self-administered risk assessment. *J Tissue Viability* 13(2): 48–50, 52–54. DOI: 10.1016/s0965-206x(03)80035-9.

181. WB – Washington Group on Disability Statistics (2021). Published Materials. Washington Group on Disability Statistics. University College London. [online] [cit. 2021-01-22]. Dostupné z: <https://www.washingtongroup-disability.com/resources/published-materials/>
182. Wawrzyniak, K. M., et al. (2019). The World Health Organization Disability Assessment Schedule-2.0 (WHODAS 2.0) in a chronic pain population being considered for chronic opioid therapy. *J Pain Res*, 12: 18755–1862. DOI: 10.2147/JPR.S207870.
183. WHO (1980). International classification of impairments, disabilities, and handicaps: a manual of classification relating to the consequences of disease. New York: WHO Publication Centre USA.
184. WHO (2001). International Classification of Functioning, Disability and Health. World Health Organization. [online] [cit. 2021-01-16]. Dostupné z: <https://www.who.int/classifications/international-classification-of-functioning-disability-and-health>
185. WHO (2020). Model Disability Survey- Frequently Asked Question. World Health Organization. [online] [cit. 2021-01-05]. Dostupné z: <https://www.who.int/disabilities/data/mds-faqs/en/>
186. WHO and WB (2017). Model Disability Survey: Providing evidence for accountability and decision-making. World Health Organization. [online] [cit. 2021-01-22]. Dostupné z: <https://www.who.int/disabilities/data/mds.pdf>
187. Wilkin, D. (2016). *Caring for the Mentally Handicapped Child*. New York: Taylor & Francis Group, 224 p. DOI: 10.4324/9781315647869.
188. Zákon č. 561/2004 Sb., o předškolním, základním, středním, vyšším odborném a jiném vzdělávání (školský zákon). In: *Sbírka zákonů České republiky, částka 190/2004*.