

Creation of a 13-Item Bedside Dysphagia Screening Test

Mandysova, Petra and Škvrňáková, Jana and Ehler, Edvard and Černý, Michal (2011) *Creation of a 13-Item Bedside Dysphagia Screening Test*. [Journal (On-line/Unpaginated)]

Full text available as:



[PDF](#) - Published Version

Available under License [Creative Commons Attribution No Derivatives](#).
330Kb

Abstract

Dysphagia is a common problem that affects people with many health conditions and that can have serious complications. Various dysphagia screening tests exist; however, their creation was associated with certain weaknesses, e.g. none of them used “objective” instrumental tests (e.g., videofluoroscopy or flexible endoscopic examination of swallowing, FEES) in all patients to verify the results. In addition, most dysphagia screening tests were developed for stroke patients. The purpose of this study was to fill this gap. Our research included not only patients with stroke but also patients with other neurological and otorhinolaryngologic conditions. We tested 33 physical examination items in 44 patients and analyzed the results by comparing them to FEES results. Our study is the first one that performed this kind of comparison in all the patients enrolled in the study. Data mining was used to create a 13-item dysphagia screening test that has 88.2% sensitivity.

Item Type: Journal (On-line/Unpaginated)

Keywords: Dysphagia; Dysphagia Screening; Flexible Endoscopic Examination of Swallowing; Physical Examination; Videofluoroscopy

Subjects: [JOURNALS > Online Journal of Health and Allied Sciences](#)

ID Code: 7249

Deposited By: Kakkilaya Bevinje, Dr. Srinivas

Deposited On: 02 May 2011 18:17

Last Modified: 02 May 2011 18:17

References in Article

Select the SEEK icon to attempt to find the referenced article. If it does not appear to be in cogprints you will be forwarded to the paracite service. Poorly formatted references will probably not work.

1. Regan J, Sowman R, Walsh I. Prevalence of dysphagia in acute and community mental health settings. *Dysphagia*. 2006 Apr;21(2):95-101. [Seek](#)

2. Eslick GD, Talley NJ. Dysphagia: epidemiology, risk factors and impact on quality of life – a population-based study. *Aliment Pharmacol Ther* 2008;27:971-979. [Seek](#)
3. Kawashima K, Motohashi Y, Fujishima I. Prevalence of dysphagia among community-dwelling elderly individuals as estimated using a questionnaire for dysphagia screening. *Dysphagia* 2004;19(4):266-271. [Seek](#)
4. Roy N, Stemple J, Merrill RM, Thomas L. Dysphagia in the elderly: preliminary evidence of prevalence, risk factors, and socioemotional effects. *Ann Otol Rhinol Laryngol* 2007;116(11):858-65. [Seek](#)
5. Wilkins T, Gillies RA, Thomas AM, Wagner PJ. The prevalence of dysphagia in primary care patients: A HimesNet Research Network study. *J Am Board Fam Med* 2007;20:144-150. [Seek](#)
6. Ehler E., Vyhnalek P, Hajek J, Geier P, Dostal V. Dysfagie u nemocnych s cervni mozkovou prihodou – prinos perkutanni endoskopicke gastrostomie (PEG). *Neurologie pro praxi* 2001; (2):85-87. [Seek](#)
7. Martino R, Silver F, Teasell R, Bayley M, Nicholson G, Streiner D, Diamant NE. The Toronto Bedside Swallowing Screening Test (TOR-BSST). *Stroke* 2009;40:555-561. [Seek](#)
8. Trapl M, Enderle P, Nowotny M, Teuschl Y, Matz K, Dachenhausen A, Brainin M. Dysphagia bedside screening for acute-stroke patients: the Gugging Swallowing Screen. *Stroke* 2007;38:2948-2952. [Seek](#)
9. Martino R, Foley N, Bhogal S, Diamant N, Speechley M, Teasell R. Dysphagia after stroke: Incidence, diagnosis, and pulmonary complications. *Stroke* 2005;36:2756-2763. [Seek](#)
10. Colton-Hudson A, Koopman WJ, Moosa T, Smith D, Bach D, Nicolle M. A prospective assessment of the Characteristics of Dysphagia in Myasthenia Gravis. *Dysphagia* 2002;17:147-151. [Seek](#)
11. Dzierwas R, Warnecke T, Ritter M, Dittrich R, Schilling M, Schabitz WR, Ringelstein EB, Nabavi DG. Fatigable Swallowing in Myasthenia Gravis – Proposal of a Standardized Test and Report of a Case. *J Clin Neurol Dis* 2006;8(1):12-15. [Seek](#)
12. García-Peris P, Parón L, Velasco C, de la Cuerda C, Camblor M, Bretón I, Herencia H, Verdaguer J, Navarro C, Clave P. Long-term prevalence of oropharyngeal dysphagia in head and neck cancer patients: Impact on quality of life. *Clin Nutr* 2007; 26(6):710-717. [Seek](#)
13. Maclean J, Cotton S, Perry A. Post-Laryngectomy: It's hard to swallow. *Dysphagia* 2009;24:172-179. [Seek](#)
14. Platteaux N, Dirix P, Dejaeger E. Dysphagia in head and neck cancer patients treated with chemoradiotherapy. *Dysphagia* 2010;25:139-152. [Seek](#)
15. Heckert KD, Komaroff E, Adler U, Barrett AM. Postacute reevaluation may prevent dysphagia-associated morbidity. *Stroke* 2009;40:1381-1385. [Seek](#)
16. Tassorelli C, Bergamaschi R, Buscone S, Bartolo M, Furnari A, Crivelli P, Alfonsi E, Alberici E, Bertino G, Sandrini G, Nappi G. Dysphagia in Multiple Sclerosis. *Neurol Sci* 2008;29(Suppl.

4):360-363. [Seek](#)

17. Hinchey JA, Shephard T, Furie K, Smith D, Wang D, Tonn S. Formal dysphagia screening protocols prevent pneumonia. Stroke 2005;36:1972-1976. [Seek](#)

18. Lees L, Sharpe L, Edwards A. Nurse-led dysphagia screening in acute stroke patients. Nurs Standard 2006;21(6):35-42. [Seek](#)

19. Massey R, Jedlicka D. The Massey Bedside Swallowing Screen. J Neurosci Nurs 2002;34(5):252-60. [Seek](#)

20. Russell M. New assessment tools for risk drinking during pregnancy. Alcohol Health Res World 1994;18(1):55-61. [Seek](#)

21. Swets, JA. The science of choosing the right decision threshold in high-stakes diagnostics. Am Psychol 1992;47(4):522-532. [Seek](#)

22. Harrison LB, Sessions RB, Hong WK. Head and Neck Cancer: A Multidisciplinary Approach [monograph online]. 3rd ed. Philadelphia, PA: Lippincott Williams & Wilkins, Wolters Kluwer Health; 2008 [cited 2010 October 23]. Available from: <http://www.lww.com/product/Head-and-Neck-Cancer/?978-0-7817-7136-8>. [Seek](#)

23. Mandysova P. Dysphagia – Unravelling the Myths. Abu Dhabi Nurse 2004;26-28. [Seek](#)

Metadata

- [ASCII Citation](#)
- [BibTeX](#)
- [DIDL](#)
- [Dublin Core](#)
- [EP3 XML](#)
- [EPrints Application Profile \(experimental\)](#)
- [EndNote](#)
- [Eprints Application Profile](#)
- [HTML Citation](#)
- [ID Plus Text Citation](#)
- [JSON](#)
- [METS](#)
- [MODS](#)
- [OAI-ORE Resource Map \(Atom Format\)](#)
- [OAI-ORE Resource Map \(RDF Format\)](#)
- [OpenURL ContextObject](#)
- [OpenURL ContextObject in Span](#)
- [RDF+N-Triples](#)
- [RDF+N3](#)
- [RDF+XML](#)
- [Refer](#)
- [Reference Manager](#)
- [Search Data Dump](#)
- [Simple Metadata](#)
- [YAML](#)

