

# EFFICIENT, EFFECTIVE, AND INFORMED

Online Resources for Speech, language, and Hearing  
Professionals

**Whitney A Townsend, MLIS**

Liaison Services Librarian

Taubman Health Sciences Library

University of Michigan

[whitneyt@umich.edu](mailto:whitneyt@umich.edu)

# Introductions

Whitney Townsend, MLIS

[whitneyt@umich.edu](mailto:whitneyt@umich.edu)

Liaison Services Librarian at UM

Responsible for:

- Cardiovascular Center
- Physical Medicine & Rehabilitation
- Orthopaedic Surgery
- Rheumatology
- Undergraduate medical education

# Quick Overview of Today

- Intro & Overview of session
- Refresher on Evidence-based Practice
- PubMed Tips & Tricks
  
- **BREAK!**
  
- Advanced Googling
- Free online resources
- Subscriptions online resources
- Getting the Full Text
- Q & A, Closing

# Today's Learning Objectives

- Feel comfortable utilizing 2-3 PubMed tools for finding literature
- Easily limit your Google search results by document type, site type, and scholarly vs. popular works
- Identify at least 3 additional online resources (free or subscription) for finding speech, language, or hearing specific information

# Overview of EBM/EBP

“Evidence-based medicine (EBM) is the integration of **best research evidence** with **clinical expertise** and **patient values**.”

Sackett, David L et al. Evidence-based medicine : How to Practice and Teach EBM. Churchill Livingstone, 2000. p. 1

# Primary vs. Secondary Literature

## Primary Literature

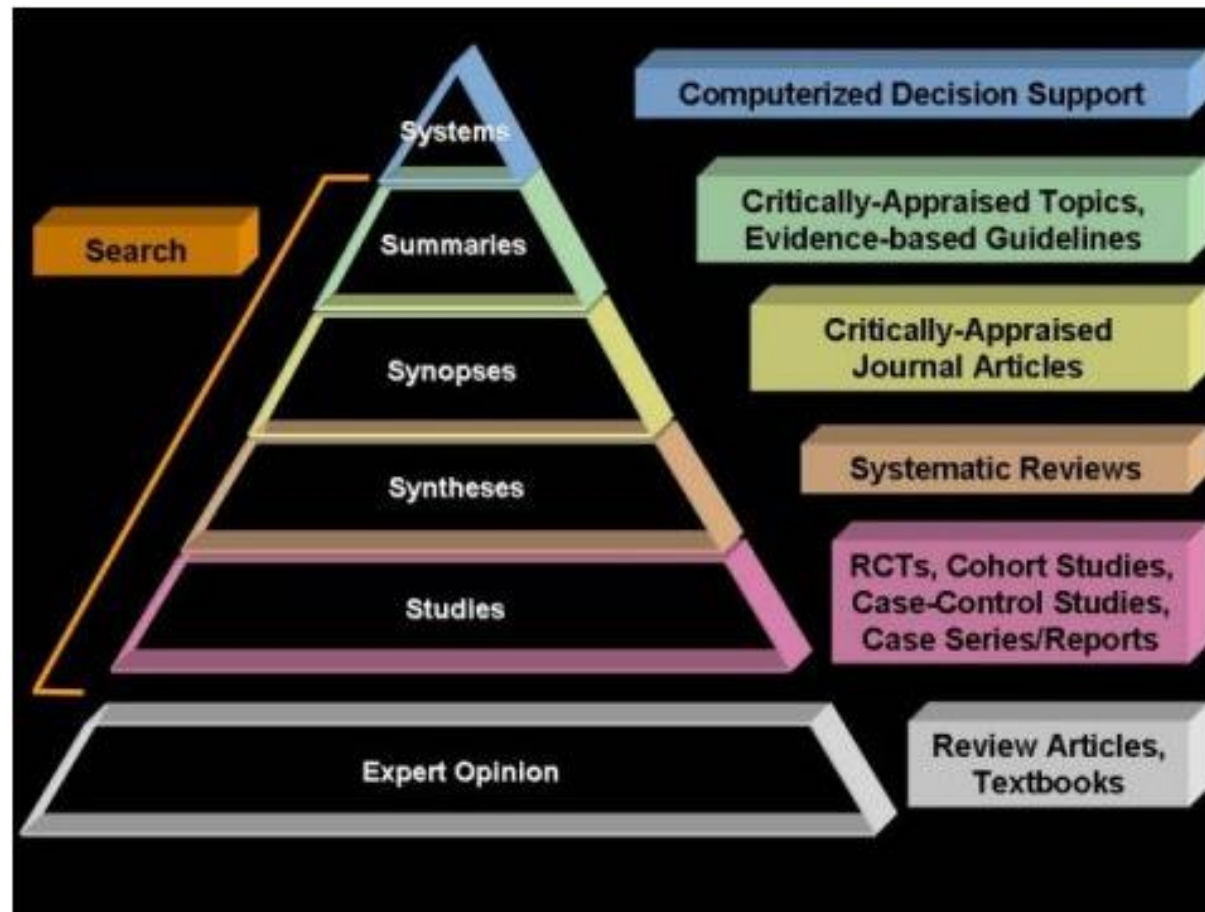
- Original research articles
  - ▣ *e.g.: reports of clinical trials in MEDLINE*
- **Reader** must determine the quality of the study, including its methods and conclusions

# Primary vs. Secondary Literature

## Secondary Literature

- Sources which summarize or evaluate original research
  - ▣ *e.g.: Cochrane Database of Systematic Reviews*
- **Experts** review studies on a particular topic for design, methods, and conclusions to determine the quality of outcomes

# The 5 S Pyramid of Resources



Based on the ["5S" Pyramid of Evidence Resources](#) from the Indiana University School of Medicine Libraries, the Dartmouth /Yale EBM Page Generator and Haynes RB, ACP J Club 2006;145(3):A8.

# EBP Resources in the real world

Finding Evidence-Based Answers to Clinical Questions - Quickly and Effectively		
INEED:	Example:	Resources to consider:
an overview of a particular disease, condition background information	I have a new patient with a cochlear implant; I need an overview of this topic.	<p><b>Textbooks (print or online)</b></p> <p>Dynamed (S) MD Consult (S) STAT!Ref (S) Rehabilitation Reference Center (S) AccessPhysiotherapy (S)</p> <p>MedlinePlus (basic)</p> <p>Association &amp; Society Websites (F)</p>
drug information	Could my patient's hearing problems be a side effect of their medication?	<p>Drugs.com (F)</p> <p>Subscription Drug Databases (S)</p>
a "synthesis" of best practice recommendations for disease management (critically-appraised topics) (secondary literature)	What's the latest on the management of dysphagia?	<p>Cochrane Database of Systematic Reviews (abstracts F; fulltext S)</p> <p>PubMed: Clinical Queries - Systematic Reviews (abstracts &amp; some fulltext F; fulltext S)</p> <p>National Guideline Clearinghouse (F)</p> <p>ACP PIER (S)</p> <p>Rehabilitation Reference Center (S)</p>
an answer to a narrow question that isn't addressed in the synthesis resources (primary literature)	In a 70 year old woman with Parkinsonian dysarthria, which speech therapy technique is the most effective?	<p>PubMed: Clinical Queries - Clinical Studies (abstracts &amp; some fulltext F; fulltext S)</p> <p>CINAHL (S)</p> <p>ERIC (abstracts &amp; some fulltext F; fulltext S)</p> <p>Google Scholar (abstracts &amp; some fulltext F, other fulltext S)</p> <p>MeL Health &amp; Wellness Databases (MeL)</p>
information to share with patients	Where can I find more information for my patient with a stutter?	<p>MedlinePlus (F)</p> <p>Health &amp; Wellness Resource Center (MeL)</p>

Revised from: "Finding Evidence-Based Answers to Clinical Questions - Quickly and Effectively", Dartmouth Biomedical Libraries, March 29, 2006

# Learn more about EBM/EBP

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Duke/UNC Introduction to Evidence-based Practice

<http://www.hsl.unc.edu/services/tutorials/ebm/index.htm>

SUNY Downstate Medical Center Evidence-based Medicine Tutorial

<http://library.downstate.edu/EBM2/contents.htm>

NSW Speech Pathology Evidence-based Practice

[http://www.ciap.health.nsw.gov.au/specialties/ebp\\_sp\\_path](http://www.ciap.health.nsw.gov.au/specialties/ebp_sp_path)



# PubMed Tips & Tricks

Make PubMed your friend, not your enemy.

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Display Settings:  Summary, 20 per page, Sorted by Recently Added

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Results: 1 to 20 of 45199

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1. [Surgical management of ventral and ventrolateral foramen magnum meningiomas: report on a 64-case series of literature.](#)  
Talacchi A, Biroli A, Soda C, Masotto B, Bricolo A.  
Neurosurg Rev. 2012 Mar 21. [Epub ahead of print]  
PMID: 22430127 [PubMed - as supplied by publisher]  
[Related citations](#)

2. [The Effect of Different Catheter Balloon Dilators on the Dysphagia of Patients with Dysphagia.](#)  
Dou Z, Zu Y, Wen H, Wan G, Jiang L, Hu Y.  
Dysphagia. 2012 Mar 17. [Epub ahead of print]  
PMID: 22427310 [PubMed - as supplied by publisher]  
[Related citations](#)

3. [Clinical study on Tongyan Spray \( \) for post-stroke dysphagia: a randomized controlled trials.](#)  
Feng XG, Hao WJ, Ding Z, Sui Q, Guo H, Fu J, Chin J Integr Med. 2012 Mar 16. [Epub ahead of print]  
PMID: 22426799 [PubMed - as supplied by publisher]  
[Related citations](#)

4. [Role of flexible transnasal esophagoscopy and patient education in the management of globus pharyngeus.](#)  
Cheng CC, Fang TJ, Lee TJ, Lee LA, Chen TM, Chen CK, Re-Ming Yeh A, Huang HC, Hsiao HR, Lin W, Kuo YL, Li HY.  
J Formos Med Assoc. 2012 Mar;111(3):171-5. Epub 2012 Feb 14.  
PMID: 22423671 [PubMed - in process]  
[Related citations](#)

5. [Phase II study of helical tomotherapy in the multidisciplinary treatment of oligometastatic colorectal cancer.](#)  
Engels B, Gevaert T, Everaert H, De Coninck P, Sermeus A, Christian N, Storme G, Verellen D, De Ridder M.  
Radiat Oncol. 2012 Mar 16;7(1):34. [Epub ahead of print]  
PMID: 22423615 [PubMed - as supplied by publisher] **Free Article**  
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6. [Pelizaeus-merzbacher disease, pelizaeus-merzbacher-like disease 1, and related hypomyelinating disorders.](#)  
Hobson GM, Garbern JY.  
Semin Neurol. 2012 Feb;32(1):62-7. Epub 2012 Mar 15.  
PMID: 22422208 [PubMed - in process]  
[Related citations](#)

Manage Filters

Related searches

- oropharyngeal dysphagia
- stroke dysphagia
- dysphagia lusoria
- dysphagia aspiration
- dysphagia screening

Titles with your search terms

- Dysphagia and aspiration pneumonia in older adults. [J Am Acad Nurse Pract. 2010]
- Dysphagia in stroke: a new solution. [Stroke Res Treat. 2010]
- Intensity-modulated chemoradiotherapy aiming to reduce dysphagia in patient. [J Clin Oncol. 2010]

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- Dyspnea as the reason for encounter in general practice. [J Clin Med Res. 2011]
- Efficacy of postoperative radiograph for evaluating the prevertebral soft tissue [Clin Orthop Surg. 2012]
- Tracheobronchial Polyflex stents for the management of ber [World J Gastroenterol. 2012]

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Find related data

# Know your resource: PubMed

- 20 million+ citations
- Primary literature database for biomedical and health sciences information
- Though biomedical in focus, also contains multidisciplinary content
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- Clinical Queries
- Single Citation Matcher
- My NCBI
  - ▣ Personalize PubMed
  - ▣ Save searches
  - ▣ Save collections of citations
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# PubMed Clinical Queries

- QUICKLY allows you to hone in on high level evidence publication types:
  - ▣ Clinical Studies
  - ▣ Systematic Reviews
- Cut out the fluff (editorials, opinions, comments)
- Allows for use of much broader search terms with narrower results



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dysphagia

Search

### Clinical Study Categories

Category:

Scope:

#### Results: 5 of 13506

Clinical study on Tongyan Spray () for post-stroke dysphagia patients: A randomized controlled trials. [Chin J Integr Med. 2012]

Percutaneous endoscopic gastrostomy versus nasogastric tube feeding for adults with swallowing disturbances. [Cochrane Database Syst Rev. 2012]

Reflux drugs linked to C. difficile-related diarrhea. [JAMA. 2012]

Acupuncture for dysphagia after chemoradiation in head and neck cancer: Rationale and design of a randomized, sham-controlled trial. [Contemp Clin Trials. 2012]

Prevalence and peak incidence of acute and late normal tissue morbidity in the DAHANCA 6&7 randomised trial with accelerated radiotherapy for head and neck cancer. [Radiother Oncol. 2012]

[See all \(13506\)](#)

### Systematic Reviews

#### Results: 5 of 867

Percutaneous endoscopic gastrostomy versus nasogastric tube feeding for adults with swallowing disturbances. [Cochrane Database Syst Rev. 2012]

Is an intra-oesophageal bougie of use during Nissen fundoplication? [Interact Cardiovasc Thorac Surg. 2012]

Temporal Variability in the Deglutition Literature. [Dysphagia. 2012]

Studies of stroke rehabilitation therapies should report blinding and rationalize use of outcome measurement instruments. [J Clin Epidemiol. 2012]

Mechanisms and factors associated with gastrointestinal symptoms in patients with diabetes mellitus. [J Pediatr (Rio J). 2012]

[See all \(867\)](#)

### Medical Genetics

Topic:

#### Results: 5 of 1110

Pediatric and adult eosinophilic esophagitis: similarities and differences. [Allergy. 2012]

Plummer-Vinson syndrome and reactive thrombocytosis mask a JAK2-V617F positive myeloproliferative neoplasm. [Blood. 2011]

[Anesthetic management of patients with neuronal ceroid lipofuscinosis]. [Masui. 2011]

Cell proliferation of esophageal squamous epithelium in erosive and non-erosive reflux disease. [World J Gastroenterol. 2011]

Mutations in MEGF10, a regulator of satellite cell myogenesis, cause early onset myopathy, areflexia, respiratory distress and dysphagia (EMARDD). [Nat Genet. 2011]

[See all \(1110\)](#)

Display citations filtered to a specific clinical study category and scope. These search filters were developed by [Haynes RB et al.](#) See more [filter information](#).

Display citations for systematic reviews, meta-analyses, reviews of clinical trials, evidence-based medicine, consensus development conferences, and guidelines. See [filter information](#) or additional

Display citations pertaining to topics in medical genetics. See more [filter information](#).

# Adding search terms with AND, OR

## PubMed Clinical Queries

Results of searches on this page are limited to specific clinical research areas. For comprehensive searches, use [PubMed](#) directly.

dysphagia AND (speech pathology OR speech therapy)

Search

### Clinical Study Categories

Category: Therapy

Scope: Broad

#### Results: 5 of 263

Functional and Physiological Outcomes from an Exercise-Based Dysphagia Therapy: A Pilot Investigation of the McNeill Dysphagia Therapy Program [Arch Phys Med Rehabil. 2012]

Swallowing dysfunction after prolonged intubation: analysis of risk factors in trauma patients. [Am J Surg. 2011]

A clinical audit of the management of patients with a tracheostomy in an Australian tertiary hospital intensive care unit: Focus on speech-language [Int J Speech Lang Pathol. 2011]

Site of deep brain stimulation and jaw velocity in Parkinson disease. [J Neurosurg. 2011]

Radiotherapy deteriorates postoperative functional outcome after partial glossectomy with free flap reconstruction. [J Oral Maxillofac Surg. 2012]

[See all \(263\)](#)

Display citations filtered to a specific clinical study category and scope. These search filters were developed by [Haynes RB et al.](#) See more [filter information](#).

### Systematic Reviews

#### Results: 5 of 51

Dysphagia is a Common and Serious Problem for Adults with Mental Illness: A Systematic Review. [Dysphagia. 2012]

Prevalence, Characteristics, and Management of Swallowing Disorders following Cerebellopontine Angle Surgery. [Otolaryngol Head Neck Surg. 2012]

Speech and myofunctional exercise physiology: a critical review of the literature. [J Soc Bras Fonoaudiol. 2011]

MRI-based neuroanatomical predictors of dysphagia after acute ischemic stroke: a systematic review and meta-analysis. [Cerebrovasc Dis. 2011]

Quality indicators for integrated care of dysphagia in hospital settings. [J Soc Bras Fonoaudiol. 2011]

[See all \(51\)](#)

Display citations for systematic reviews, meta-analyses, reviews of clinical trials, evidence-based medicine, consensus development conferences, and guidelines. See [filter information](#) or additional [related sources](#).

### Medical Genetics

Topic: All

#### Results: 5 of 10

Facial-muscle weakness, speech disorders and dysphagia are common in patients with classic infantile Pompe disease treated with enzyme therapy. [J Inher Metab Dis. 2011]

Oropharyngeal dysphagia and language delay in partial trisomy 9p: case report. [Genet Mol Res. 2009]

[Bilateral hyperintensity of the pulvinar in sporadic Creutzfeldt-Jakob disease]. [Neurologia. 2009]

Otolaryngologic manifestations of mitochondrial cytopathies. [Am J Otolaryngol. 2009]

A preliminary comparison of videofluoroscopy of swallow and pulse oximetry in the identification of aspiration in dysphagic patients. [Dysphagia. 1998]

[See all \(10\)](#)

Display citations pertaining to topics in medical genetics. See more [filter information](#).

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Title words:

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[J Speech Lang Hear Res](#), 2008 Feb;51(1):S276-300.

## Swallowing and **dysphagia** rehabilitation: translating principles of neural plasticity into clinically oriented evidence.

[Robbins J](#), [Butler SG](#), [Daniels SK](#), [Diez Gross R](#), [Lanqmore S](#), [Lazarus CL](#), [Martin-Harris B](#), [McCabe D](#), [Musson N](#), [Rosenbek J](#).

University of Wisconsin and William S. Middleton VA Hospital, Geriatric Research Education and Clinical Center, Madison, WI, USA. [jrobbin2@wisc.edu](mailto:jrobbin2@wisc.edu)

### Abstract

**PURPOSE:** This review presents the state of swallowing rehabilitation science as it relates to evidence for neural plastic changes in the brain. The case is made for essential collaboration between clinical and basic scientists to expand the positive influences of **dysphagia** rehabilitation in synergy with growth in technology and knowledge. The intent is to stimulate thought and propose potential research directions.

**METHOD:** A working group of experts in swallowing and **dysphagia** reviews 10 principles of neural plasticity and integrates these advancing neural plastic concepts with swallowing and clinical **dysphagia** literature for translation into treatment paradigms. In this context, **dysphagia** refers to disordered swallowing associated with central and peripheral sensorimotor deficits associated with stroke, neurodegenerative disease, tumors of the head and neck, infection, or trauma.

**RESULTS AND CONCLUSIONS:** The optimal treatment parameters emerging from increased understanding of neural plastic principles and concepts will contribute to evidence-based practice. Integrating these principles will improve **dysphagia** rehabilitation directions, strategies, and outcomes. A strategic plan is discussed, including several experimental paradigms for the translation of these principles and concepts of neural plasticity into the clinical science of rehabilitation for oropharyngeal swallowing disorders, ultimately providing the evidence to substantiate their translation into clinical practice.

PMID: 18230851 [PubMed - indexed for MEDLINE]

[+](#) **Publication Types, MeSH Terms**

[+](#) **LinkOut - more resources**

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20-Mar-2012	PubMed	search	"phase I"
20-Mar-2012	PubMed	record	Birth size and childhood growth as determinants of phys...
19-Mar-2012	PubMed	search	("adult"[mesh] OR "adult"[All Field...
19-Mar-2012	PubMed	search	("adult"[mesh] OR "adult") AND ("ad...
21-Feb-2012	PubMed	search	("adult"[mesh] OR "adult") AND ("ad...
21-Feb-2012	PubMed	search	"Informed Consent"[Majr] AND ("cult...
21-Feb-2012	PubMed	search	"Informed Consent"[Mesh] AND ("cult...
21-Feb-2012	PubMed	search	"Informed Consent"[Mesh]

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AdolscntPhysicalFitness(Crookham)	9	2 months ago
("Rotator Cuff/injuries"[Mesh] OR "Rotator Cuf...	34	last year
("rotator cuff") OR (labrum OR "tendon impinge...	16	last year
RotatorCuff/Rehabilitation	59	last year
Rheum & Methyl (child updated)	14	last year
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- [Male versus female attitudes toward stuttering.](#)  
1. St Louis KO.  
J Commun Disord. 2011 Dec 22. [Epub ahead of print]  
PMID: 22284613 [PubMed - as supplied by publisher]  
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- [Webcam delivery of the Camperdown Program for adolescents who stutter: A Phase I trial.](#)  
2. Carey B, O'Brian S, Onslow M, Packman A, Menzies R.  
Lang Speech Hear Serv Sch. 2012 Jan 9. [Epub ahead of print]  
PMID: 22232423 [PubMed - as supplied by publisher]  
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- [Evidence for the effectiveness of Alexander Technique lessons in medical and health-related conditions: a systematic review.](#)  
3. Woodman JP, Moore NR.  
Int J Clin Pract. 2012 Jan;66(1):98-112. doi: 10.1111/j.1742-1241.2011.02817.x. Review.  
PMID: 22171910 [PubMed - indexed for MEDLINE]  
[Related citations](#)
- [Re: A Prospective Diary Study of Stuttering Priapism in Adolescents and Young Men With Sickle Cell Anemia: Report of an International Randomized Control Trial: the Priapism in Sickle Cell Study \(PISCES study\).](#)  
4. Seftel AD.  
J Urol. 2011 May;185(5):1837-8. No abstract available.  
PMID: 22088730 [PubMed - in process]  
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- [A phase II trial of the Westmead Program: syllable-timed speech treatment for pre-school children who stutter.](#)  
5. Trajkovski N, Andrews C, Onslow M, O'Brian S, Packman A, Menzies R.  
Int J Speech Lang Pathol. 2011 Dec;13(6):500-9.  
PMID: 22070727 [PubMed - indexed for MEDLINE]  
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- [Diagnosis and treatment of psychogenic parkinsonism.](#)  
6. Jankovic J.  
J Neurol Neurosurg Psychiatry. 2011 Dec;82(12):1300-3. Epub 2011 Sep 20. Review.  
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Int J Clin Pract. 2012 Jan;66(1):98-112. doi: 10.1111/j.1742-1241.2011.02817.x. Review.  
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Seftel AD.  
J Urol. 2011 May;185(5):1837-8. No abstract available.  
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6.  [Diagnosis and treatment of psychogenic parkinsonism.](#)  
Jankovic J.  
J Neurol Neurosurg Psychiatry. 2011 Dec;82(12):1300-3. Epub 2011 Sep 20. Review.  
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- "Journal of research :
- "Journal of [Jour] AND
- "Journal of [Jour] AND

My NCBI — Collections

4 items from PubMed

What would you like to do?

- Create new collection
- Append to an existing collection

Enter a name for your collection:

Or cancel and return to your selections.

# PubMed Limits

PubMed.gov  
US National Library of Medicine  
National Institutes of Health

PubMed (Therapy/Broad[filter]) AND (stutter\*)

RSS Save search **Limits** Advanced

Display Settings:  Summary, 20 per page, Sorted by Recently Added Send to:

Results: 1 to 20 of 434 << First < Prev Page 1 of 22 Next > Last >>

- [Male versus female attitudes toward stuttering.](#)
  1. St Louis KO.  
J Commun Disord. 2011 Dec 22. [Epub ahead of print]  
PMID: 22284613 [PubMed - as supplied by publisher]  
[Related citations](#)
  
- [Webcam delivery of the Camperdown Program for adolescents who stutter: A Phase I trial.](#)
  2. Carey B, O'Brian S, Onslow M, Packman A, Menzies R.  
Lang Speech Hear Serv Sch. 2012 Jan 9. [Epub ahead of print]  
PMID: 22232423 [PubMed - as supplied by publisher]  
[Related citations](#)
  
- [Evidence for the effectiveness of Alexander Technique lessons in medical and health-related conditions: a systematic review.](#)
  3. Woodman JP, Moore NR.  
Int J Clin Pract. 2012 Jan;66(1):98-112. doi: 10.1111/j.1742-1241.2011.02817.x. Review.  
PMID: 22171910 [PubMed - indexed for MEDLINE]  
[Related citations](#)
  
- [Re: A Prospective Diary Study of Stuttering Priapism in Adolescents and Young Men With Sickle Cell Anemia: Report of an International Randomized Control Trial: the Priapism in Sickle Cell Study \(PISCES study\).](#)
  4. Seftel AD.  
J Urol. 2011 May;185(5):1837-8. No abstract available.  
PMID: 22000730 [PubMed - in process]

## Limits

### Dates

Published in the Last:

### Type of Article

- Clinical Trial
- Editorial
- Letter
- Meta-Analysis
- Practice Guideline

### Species

- Humans
- Animals

### Subsets

- AIDS
- Bioethics
- Cancer
- Complementary Medicine
- Core clinical journals

### Text Options

- Links to full text
- Links to free full text
- Abstracts

### Languages

- English
- French
- German
- Italian
- Japanese

### Sex

- Male
- Female

### Ages

- All Infant: birth-23 months
- All Child: 0-18 years
- All Adult: 19+ years
- Newborn: birth-1 month
- Infant: 1-23 months

### Search Field Tags

Field:

Reset

Search

Display Settings:  Summary, 20 per page, Sorted by Recently Added

Send to:

Filter your results:

**Limits Activated:** All Child: 0-18 years [Change](#) | [Remove](#)

All (155)

[Clinical Trial \(68\)](#)

[Published in the last 5 years \(35\)](#)

[Review \(6\)](#)

[HypertensionBase \(1\)](#)

[Manage Filters](#)

Results: 1 to 20 of 155

<< First < Prev Page 1 of 8 Next > Last >>

- [A phase II trial of the Westmead Program: syllable-timed speech treatment for pre-school children who stutter.](#)  
1. Trajkovski N, Andrews C, Onslow M, O'Brian S, Packman A, Menzies R.  
Int J Speech Lang Pathol. 2011 Dec;13(6):500-9.  
PMID: 22070727 [PubMed - indexed for MEDLINE]  
[Related citations](#)
- [Stutter exacerbated by lithium in a pediatric patient with bipolar disorder.](#)  
2. Gulack BC, Puri NV, Kim WJ.  
Ann Pharmacother. 2011 Oct;45(10):e57. Epub 2011 Sep 13.  
PMID: 21917558 [PubMed - indexed for MEDLINE]  
[Related citations](#)
- [Stuttering in school-age children: a call for treatment research.](#)  
3. Nippold MA.  
Lang Speech Hear Serv Sch. 2011 Apr;42(2):99-101. No abstract available.  
PMID: 21460124 [PubMed - indexed for MEDLINE]  
[Related citations](#)
- [Comparison of alternative methods for obtaining severity scores of the speech of people who stutter.](#)  
4. Howell P, Soukup-Ascencao T, Davis S, Rusbridge S.  
Clin Linguist Phon. 2011 May;25(5):368-78. Epub 2011 Mar 24.  
PMID: 21434809 [PubMed - indexed for MEDLINE]  
[Related citations](#)
- [A prospective diary study of stuttering priapism in adolescents and young men with sickle cell anemia: report of an international randomized control trial—the priapism in sickle cell study.](#)  
5. Olujohungbe AB, Adeyoju A, Yardumian A, Akinyanju O, Morris J, Westerdale N, Akenova Y, Kehinde MO, Anie K, Howard J, Brooks A, Davis VA, Khoriatry AI.  
J Androl. 2011 Jul-Aug;32(4):375-82. Epub 2010 Dec 2.  
PMID: 21127308 [PubMed - indexed for MEDLINE]  
[Related citations](#)
- [Listener perceptions of stuttering, prolonged speech, and verbal avoidance behaviors.](#)  
6. Von Tiling J.  
J Commun Disord. 2011 Mar-Apr;44(2):161-72. Epub 2010 Sep 16.  
PMID: 20947094 [PubMed - indexed for MEDLINE]

9 free full-text articles in PubMed Central

Sentence position and syntactic complexity of stuttering in early childh [J Fluency Disord. 2009]

Phonotactic probability effects in children who stutter. [J Speech Lang Hear Res. 2008]

Prevalence of childhood and early adolescence mental disorders amor [BMC Public Health. 2007]

See all (9)...

Find related data

Database: Select

Find items

Search details

Therapy/Broad[filter] AND  
(stutter[All Fields] OR  
stutter'[All Fields] OR  
stutter's[All Fields] OR  
stutterale[All Fields] OR  
stutterere's[All Fields] OR

Search

See more...


Recent activity

Turn Off Clear

# PubMed Tutorials

The screenshot displays the PubMed website interface. At the top left is the PubMed logo with the text "US National Library of Medicine National Institutes of Health". To the right is a search bar with a dropdown menu set to "PubMed" and buttons for "Limits" and "Advanced". Below the search bar, a green checkmark icon is followed by the text "Limits removed.". A large banner image of a book is on the left, and a dark blue banner on the right contains the text "PubMed" and a paragraph: "PubMed comprises more than 21 million citations for biomedical literature from MEDLINE, life online books. Citations may include links to full-text content from PubMed Central and publis". Below the banner are three columns of resource links: "Using PubMed" (with a red border), "PubMed Tools", and "More Resources".

**Using PubMed**

- [PubMed Quick Start Guide](#)
- [Full Text Articles](#)
- [PubMed FAQs](#)
- [PubMed Tutorials](#)
- [New and Noteworthy](#) 

**PubMed Tools**

- [PubMed Mobile](#)
- [Single Citation Matcher](#)
- [Batch Citation Matcher](#)
- [Clinical Queries](#)
- [Topic-Specific Queries](#)

**More Resources**

- [MeSH Database](#)
- [Journals in NCBI Databases](#)
- [Clinical Trials](#)
- [E-Utilities](#)
- [LinkOut](#)

## PubMed® Online Training

# PubMed Tutorial

Be PubMed proficient. Take the [PubMed Tutorial](#).

Go to:

- [Understanding the Vocabulary](#)
- [Building the Search](#)
- [Managing the Results](#)
- [Saving the Search](#)
- [Getting the Articles](#)

## Quick Tours

The following are brief [animated tutorials](#) with audio for using PubMed. Running times are rounded to the nearest minute. Click on the link to launch the tour.

### Searching PubMed

- [Search PubMed by Author](#) (2 min., January 2012)
- [Searching PubMed by Author and Subject](#) (1 min., January 2012)
- [PubMed Simple Subject Search](#) (1 min., January 2012)
- [PubMed Simple Subject Search: How It Works](#) (1 min., January 2012)
- [Search for a Journal](#) (2 min., January 2012) - See also [Searching for Journals in the NLM Catalog](#)
- [Retrieving Citations from a Journal Issue](#) (1 min., February 2010)
- [Advanced Search Builder](#) (2 min., YouTube video, December 2011)

### PubMed's MeSH Database

- [Searching with the MeSH Database](#) (3 min., February 2011)
- [Combining MeSH Terms Using the MeSH Database](#) (3 min., February 2011)
- [Applying Subheadings and Other Features of the MeSH Database](#) (3 min., February 2011)

### Managing Results

- [Downloading Results for Use in Reference Management Software](#) (2 min., revised April 2011)
- [Changing Your Default Display Settings](#) (2 min., revised April 2011)

### Links to Full Text (My NCBI)

### Saving Searches (My NCBI)

- [Save Searches and Set E-mail Alerts](#) (2 min., YouTube video, revised January 2012)
- [Changing Saved Searches](#) (2 min., revised April 2011)
- [E-mail Alerts for Articles from Your Favorite Journals](#) (3 min., revised March 2012)

### Collections and Bibliographies (My NCBI)

- [Save Search Results in Collections](#) (3 min., YouTube video, revised January 2012)
- [Editing Collections](#) (3 min., revised May 2011)
- [My Bibliography](#) (3 min., YouTube video, revised January 2012)
- [Sharing Collections](#) (2 min., revised May 2011)

### Preferences and Filters (My NCBI)

- [Retrieving Your My NCBI Username or Password](#) (2 min., revised April 2011)
- [Changing Your Default Display Settings](#) (2 min., revised April 2011)
- [Filters](#) (3 min., revised May 2011)
  - [Custom Filters](#) (2 min., revised May 2011)
  - [Links to Full Text from Your Library \(Library LinkOut Filters\)](#) (3 min., revised April 2011)
- [Selecting Your Outside Tool Preference](#) (3 min., revised April 2011)



# Break!

10 minutes



# Advanced Googling

Tips & tricks

Google Scholar

# Google: Inside Search

□ <http://www.google.com/insidesearch/>

Google Inside Search

Home ▾

Features ▾

Search Stories

Playground ▾

Blog

More Help

## Get the latest search features, tips and tricks

Get information on Google's newest search features and [learn tips](#) from basic to advanced. For even more on Google search, explore our [playground](#) of fun features, or go [under the hood](#) to explore the technology that powers your searches.



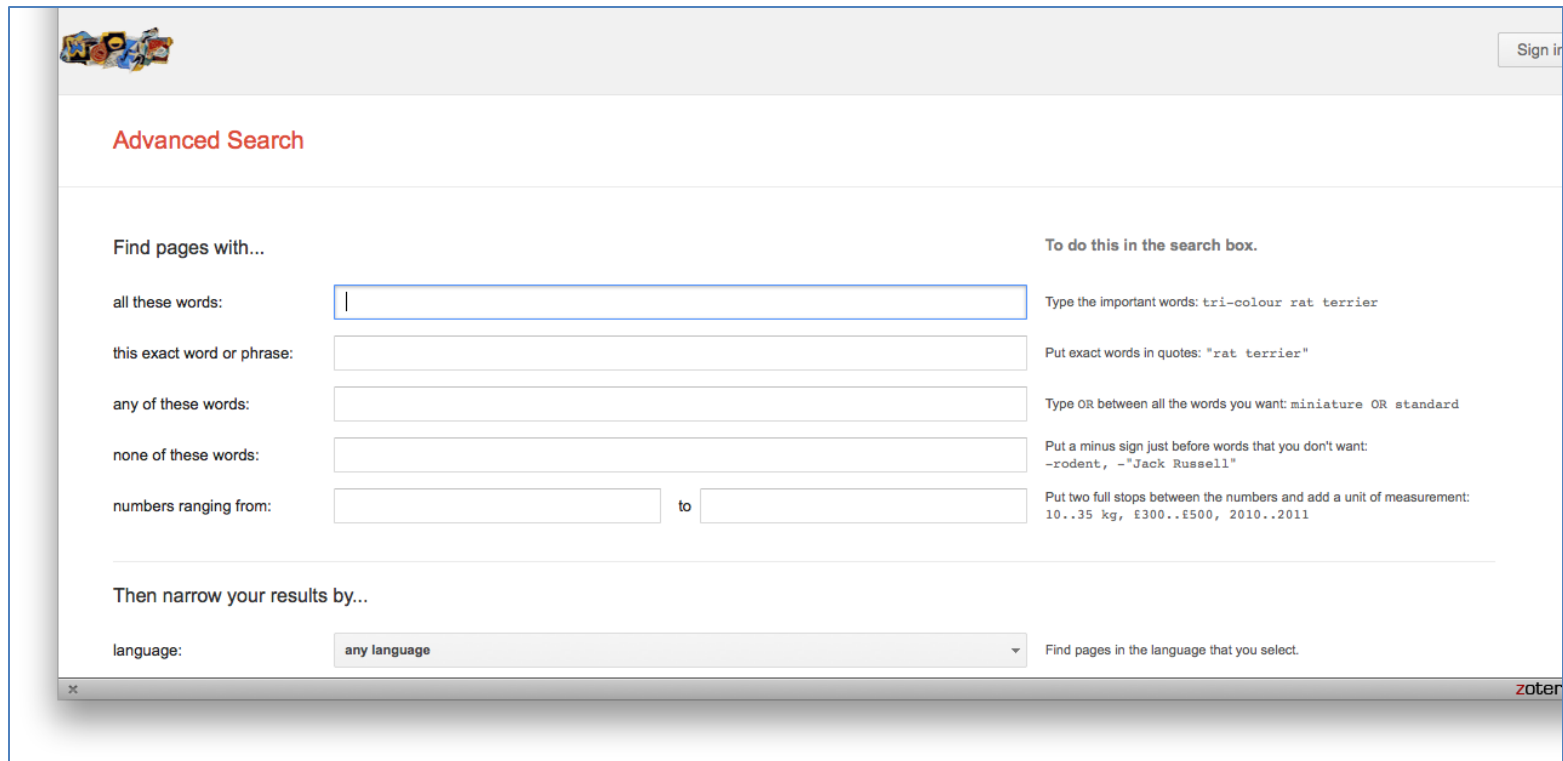
# The basics

---

- Spelling
- Less is more!
- Use descriptive words
- Don't worry about case or punctuation

# Advanced Tricks

- Make your Google search better with Advanced Search



The screenshot shows the Google Advanced Search page. At the top left is the Google logo, and at the top right is a 'Sign in' button. The main heading is 'Advanced Search'. Below this, there are two columns of options. The left column is titled 'Find pages with...' and includes five input fields: 'all these words:', 'this exact word or phrase:', 'any of these words:', 'none of these words:', and 'numbers ranging from:'. The right column is titled 'To do this in the search box.' and provides instructions for each field: 'Type the important words: tri-colour rat terrier', 'Put exact words in quotes: "rat terrier"', 'Type OR between all the words you want: miniature OR standard', 'Put a minus sign just before words that you don't want: -rodent, -"Jack Russell"', and 'Put two full stops between the numbers and add a unit of measurement: 10..35 kg, £300..£500, 2010..2011'. Below these columns is a section titled 'Then narrow your results by...' with a 'language:' dropdown menu set to 'any language' and the instruction 'Find pages in the language that you select.' The bottom right corner of the page has a 'zoter' logo.

Adapted from <http://www.google.com/insidesearch/features.html>

# Search by filetype

- Easy to find full text documents, presentations
- Enter search terms, then filetype:ppt
  - ▣ Ex: stutter filetype:ppt

[PPT] [Tips for Job Interviews for Persons Who Stutter](#)

[www.stutterlaw.com/Tips4Interviews.ppt](http://www.stutterlaw.com/Tips4Interviews.ppt)

File Format: Microsoft Powerpoint - [Quick View](#)

Some of what follows is from the NSA's booklet, Mastering the Job Interview . . . for People Who **Stutter**, by Bill Parry and Rachael Resk, which you can download ...

[PPT] [Diagnosing and Treating Children Who Stutter - University of ...](#)

[www.pitt.edu/~super7/2011-3001/2121.ppt](http://www.pitt.edu/~super7/2011-3001/2121.ppt)

File Format: Microsoft Powerpoint - [Quick View](#)

Identification and Treatment of Childhood **Stuttering**. J. Scott Yaruss, Ph.D., CCC-SLP. **Stuttering** Center of Western Pennsylvania. University of Pittsburgh ...

[PPT] [Identification and Treatment of Childhood Stuttering](#)

[www.pitt.edu/~super7/4011-5001/4461.ppt](http://www.pitt.edu/~super7/4011-5001/4461.ppt)

File Format: Microsoft Powerpoint - [Quick View](#)

1. Identification and Treatment of Childhood **Stuttering**. J. Scott Yaruss, Ph.D., CCC-SLP. **Stuttering** Center of Western Pennsylvania. University of Pittsburgh ...

[PPT] [Interactions between Language and Stuttering](#)

[www.pitt.edu/~super7/2011-3001/247-248.ppt](http://www.pitt.edu/~super7/2011-3001/247-248.ppt)

File Format: Microsoft Powerpoint - [Quick View](#)

Certain aspects of language development affect the likelihood that **stuttering** ... What do these situational language factors have to do with **stuttering** treatment?

[PPT] [Self-Therapy for Adults Who Stutter](#)

[www.mnsu.edu/comdis/kuster/journal/osborne3/selftherapy.ppt](http://www.mnsu.edu/comdis/kuster/journal/osborne3/selftherapy.ppt)

File Format: Microsoft Powerpoint - [Quick View](#)

Malcolm Fraser, the founder of the **Stuttering** Foundation of America, published the first book devoted to self therapy for adults who **stutter**. Through the years, his ...

[PPT] [Developing skills for counseling people who stutter and their ...](#)

[www.mnsu.edu/comdis/kuster/teaching/counseling/.../yaruss1.ppt](http://www.mnsu.edu/comdis/kuster/teaching/counseling/.../yaruss1.ppt) [+1](#)

# Exact Phrase Search

---

- Put “quotes” around phrases to get more precise results

# Ignore words or characters

- Use the minus - sign to specify particular items you don't want in your results
- Ex: bass -fish

# Specific Site Search

- Precede your query with **site:** if you know you want your answer from within a specific site or type of site (.org, .edu). For example:  
**site:edu** or  
**site:mayoclinic.com**
- Ex: aphagia  
**site: edu**

## [USF Swallowing Center - Aphagia](#)

[hsc.usf.edu](#) > ... > [Internal Medicine](#) > [Swallowing Center](#)

Jul 27, 2011 – The medical dictionary defines **aphagia** as the refusal or loss of ability to swallow. To read about several causes and treatment options for this ...

## [\[PDF\] Taste Reactivity Analysis of 6-Hydroxydopamine-Induced Aphagia](#)

...

[www.lsa.umich.edu/.../Berridge%20Venier%20Robinsion%201989%...](#)

File Format: PDF/Adobe Acrobat - [Quick View](#)

by KC Berridge - [Cited by 148](#) - [Related articles](#)

The **aphagia** and adipsia produced by selective destruction of mesostriatal ... droxydopamine- (6-OHDA) induced **aphagia** remains con- troversial, but many ...

## [Motivational-Sensorimotor Interaction Controls Aphagia and ...](#)

[www.lsa.umich.edu/.../Berridge%20&...](#)

Experiment I used a recovery-of-function approach to show that (a) **aphagia** in- ... measures of affective evaluation; (b) **aphagia** and enhanced aversion ...

## [Neuropsychology/Behavioral Neuroscience Home](#)

[neuro.psyc.memphis.edu/neuropsych/np-ugg-homeo.htm](#)

Overview of Topics. Lesson Objectives. Definition & Description. Temperature Regulation. Water Regulation. Food Regulation. Recovery from **Aphagia** ...

## [HUNGER \(HYPERPHAGIA, APHAGIA\)](#)

[www.saddleback.edu/faculty/bferguson/psych/psyc1/.../sld044.htm](#)

First · Previous · Next · Last · Index · Home · Text. Slide 44 of 69.

# So much more...

## Advanced Tricks



Search by file type



Find related pages



Fill in the blanks



Exact phrase search



Specific site search



Include or ignore words and characters



Advanced image searching



Numbers in a range



Search all languages



Get recipes

## Fast Facts



Convert any measurement



Realtime stock quotes



Track your packages



Get definitions



Calculate anything



Sports scores and schedules



Locate earthquake activity



Get the time



Convert currencies



Get sunrise and sunset times

# And even more...

## Local



Zip and area codes



Shop and compare



Discover local businesses



Search with location



Get movie times



Check the weather



Get flight schedules



Flight times



Map your location

## Research



Public domain books



Hone in on a particular range



Health Conditions



World news



Similar terms



Filter by reading level



Public data



Medication information

## On Your Phone



Google Goggles



Voice Search



Interactive financial searches



Instant on Mobile



Instant Previews on Mobile



Search nearby



Places open now



Interactive weather

# Google Scholar



Search

[Advanced Scholar Search](#)  
[Scholar Preferences](#)

Articles (  include patents)  Legal opinions and journals

**Stand on the shoulders of giants**

[About Google Scholar](#) - [All About Google](#) - [My Citations](#)

©2012 Google

# Know your resource: Google Scholar

- Searches journal articles and book citations
- Includes all of PubMed, plus lots of multidisciplinary content
- The downside: Google doesn't tell us what ISN'T there
- FREE!! And easy to use

# Google Scholar

The screenshot shows the Google Scholar search interface. At the top left is the Google Scholar logo. A search bar contains the text "stutter AND therapy". To the right of the search bar is a "Search" button and a link to "Advanced Scholar Search". In the top right corner, there is a link for "My Citations". Below the search bar is a navigation bar with the word "Scholar" and several filters: "Articles and patents", "anytime", and "include citations". There is also a "Create email alert" button. On the right side of this bar, it says "Results 1 - 10 of about 10,500. (0.09 sec)".

The first search result is a book titled "Stutter-free speech: A goal for therapy" by GH Shames and CL Florance, published in 1980. The snippet includes the title, authors, and publication information. Below the title are links for "Cited by 72", "Related articles", "Cached", and "Library Search".

The second search result is a journal article titled "A behavioral-cognitive therapy program for adults who stutter: Computers and counseling" by GW Blood, published in 1995 in the Journal of Communication Disorders. A "[PDF] from utexas.edu" link is provided. The snippet describes the program's efficacy. Below the title are links for "Cited by 37", "Related articles", "BL Direct", and "All 8 versions".

The third search result is a journal article titled "Pseudofluency in adults who stutter: the illusory outcome of therapy" by ND VIKRAM, published in 2002 in the Journal of Speech and Hearing Research. The snippet discusses the majority of therapy programs. Below the title are links for "Cited by 23", "Related articles", "BL Direct", and "All 6 versions".

The fourth search result is a journal article titled "An investigation into the relationship between anxiety and stuttering" by A Craig, published in 1990 in the Journal of Speech and Hearing Disorders. The snippet mentions the results of stuttering therapy. Below the title are links for "Cited by 84", "Related articles", and "All 6 versions".

# Google Scholar Limits

Google scholar   [Advanced Scholar Search](#) [My Citations](#)

**Scholar**     Results 1 - 10 of about 10,500. (0.09 sec)

Article Type

- Articles and patents
- Articles excluding patents
- Legal opinions and journals
- All federal courts
- Michigan courts
- Advanced search...

Date Limit

- anytime
- since 2012
- since 2011
- since 2010
- since 2009
- since 2008
- since 2007
- since 2006
- since 2005
- since 2004
- since 2003
- since 2002
- since 2001
- since 2000
- since 1999
- since 1998
- since 1997
- since 1996
- since 1995
- since 1994

Citations or more

- include citations
- include citations at least summaries

Create email alerts

**Alerts**

Alert query:

Email:

[List my alerts](#)

# Google Scholar Advanced Search

Google scholar **Advanced Scholar Search** [Advanced Search Tips](#) | [About Google Scholar](#)

**Find articles** with all of the words  Results per page: 10   
with the **exact phrase**   
with **at least one** of the words   
**without** the words   
where my words occur

**Author** Return articles written by   
e.g., "PJ Hayes" or McCarthy

**Publication** Return articles published in   
e.g., J Biol Chem or Nature

**Date** Return articles published between  —   
e.g., 1996

**Collections** **Articles and patents**

Search articles in all subject areas (  include patents).

Search only articles in the following subject areas:

Biology, Life Sciences, and Environmental Science  Medicine, Pharmacology, and Veterinary Science  
 Business, Administration, Finance, and Economics  Physics, Astronomy, and Planetary Science  
 Chemistry and Materials Science  Social Sciences, Arts, and Humanities  
 Engineering, Computer Science, and Mathematics

A horizontal bar at the top of the slide, divided into a yellow section on the left and a blue section on the right. The text 'Free Online Resources to Know' is written in white across the blue section.

# Free Online Resources to Know

Free stuff

Almost free

Resource guides

# Michigan Electronic Library

- Use your driver's license or state ID to access
- Available FREE! to all residents of Michigan
- Free and subscription resources across subject areas
- <http://mel.org/>

# <http://mel.org/>



## Michigan's 24/7 Library

Full Text  
Magazines and Newspapers

Tests and Tutorials  
(GED, ACT, Careers, etc.)

Job and Career Accelerator

## MeL Subject Gateways

Books and Reading

Business and Jobs

Genealogy

Health and Wellness

Kids

Legal

Reference Desk

Teens



## MeL Databases

Read full text articles from magazines and newspapers; find current reference sources; use advanced search functions

## MeLCat

Order books, audio books, music, movies and other materials delivered to your participating library

## M.O.R.E.

Michigan Online Resources for Educators: Find lesson plans and curriculum aids searchable by subject or state standard

## Featured Resources

Includes info on broadband activities in Michigan and other evolving topics of statewide and national interest.

## MeL Michigana

Explore Michigan's heritage through photographs, diaries, oral histories, local records and historical data

# MEL Health & Wellness

## [Health and Wellness Resource Center](#)

Recommended for: Students, Patients, Health Professionals.  
Mostly full text. Provides instant access to carefully compiled and trusted medical reference materials. Includes nearly 400 health/medical j...

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[Share This](#)

## [Health Reference Center Academic](#)

Recommended for: Students, Patients, Health Professionals.  
Mostly full text. Provides access to professional and personal health magazines, journals and reference sources. Michigan residents or Michig...

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[Share This](#)

## [InfoTrac Nursing and Allied Health Collection](#)

All aspects of the Nursing profession from direct patient care to health care administration are covered in this collection. Including nearly 400 titles, this collection's current and authoritative co...

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## [InfoTrac Psychology Collection](#)

This set explores what makes people "tick" from childhood to death. This collection gives individuals a basic understanding of the study of the mind, emotions and how the human mind develops and dimin...

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## [MedlinePlus \(free version\)](#)

Recommended for: Patients and health professionals. Some full text. Covers all areas of medicine, including dentistry and nursing. From the National Library of Medicine.

[More](#)

[I Like This](#)

[Share This](#)

## [Nursing Resource Center](#)

Recommended for: Nursing students and other healthcare professionals. Mostly Full-text. Nursing Resource Center brings together in an easy-to-use interface disease and drug overviews, care...

[More](#)

[I Like This](#)

[Share This](#)

- Free & subscription resources
- Full text journal articles
- Patient education information

# National Guidelines Clearinghouse

<http://guidelines.gov/>

- Clearinghouse of practice guidelines collected by AHRQ
- High levels of evidence
- General standard of care
- Updated at least every 5-7 years, or removed
- Rigorous screening process
- FREE!



Home

Guidelines

Expert Commentaries

Guideline Syntheses

Guideline Resources

Annotated Bibliographies

Compare Guidelines

FAQ

Submit Guidelines

About

**NGC is a public resource for evidence-based clinical practice guidelines.**

Search the site:

GO

[Search Tips](#) | [Advanced Search](#) | [About Search](#)



### Find

Browse guideline summaries by **Topic** or **Organization**, or view the complete **Index** of all current guideline summaries.



### Learn

Broaden your knowledge with **Guideline Resources**. Go to **Expert Commentaries** for editorial insights on current issues in the field of guidelines. Find out more about NGC and guideline summaries under **About**.



### Compare

**Guideline Syntheses** provide a comparative analysis of guidelines on similar topics. Or choose two or more guideline summaries to **Compare** side-by-side.



### Ask

**Contact Us** with questions or comments about specific guidelines or about the NGC Web site. You can find useful tips on the **FAQ** and **Help** pages.

### New This Week

March 19, 2012

#### Updated Guideline Synthesis

- Prevention, Diagnosis and Treatment of Pediatric Bronchiolitis

#### New/Updated Guideline Summaries

- BCSH, EAU, NHFA, NICE, RNAO

[View All](#)

### Announcements



#### G-I-N North America Webinar

A free Webinar on **AHRQ and NGC Approach to Addressing the IOM Standards** will be held **March 29, 2012 at 1 pm (Pacific)/4 pm (Eastern)**. For more information contact: [gladys.i.tom@kp.org](mailto:gladys.i.tom@kp.org), 1-510-414-7760, or 1-925-980-5951.

#### Conference News

1. **ACR Appropriateness Criteria® dysphagia.** 1998 (revised 2010). NGC:007921  
American College of Radiology - Medical Specialty Society. *View all guidelines by the developer(s)*
2. **Management of patients with stroke: identification and management of dysphagia. A national clinical guideline.** 2004 Sep (revised 2010 Jun). NGC:007954  
Scottish Intercollegiate Guidelines Network - National Government Agency [Non-U.S.]. *View all guidelines by the developer(s)*
3. **Cross-continuum topics in stroke management. In: Canadian best practice recommendations for stroke care.** 2006 (revised 2010 Dec 8). NGC:008616  
Canadian Stroke Network - Disease Specific Society; Heart and Stroke Foundation of Canada - Disease Specific Society. *View all guidelines by the developer(s)*
4. **Mealtime difficulties. In: Evidence-based geriatric nursing protocols for best practice.** 2003 (revised 2008 Jan). NGC:006351  
Hartford Institute for Geriatric Nursing - Academic Institution. *View all guidelines by the developer(s)*
5. **Oral hygiene care for functionally dependent and cognitively impaired older adults.** 2002 Nov (revised 2011 Jul). NGC:008700  
University of Iowa College of Nursing, John A. Hartford Foundation Center of Geriatric Nursing Excellence - Academic Institution. *View all guidelines by the developer(s)*
6. **Massachusetts Department of Mental Retardation health screening recommendations.** 2003 Sep 19 (revised 2007). NGC:007030  
Massachusetts Department of Developmental Services - State/Local Government Agency [U.S.]; University of Massachusetts Medical School's Center for Developmental Disabilities Evaluation and Research - Academic Institution. *View all guidelines by the developer(s)*
7. **VA/DoD clinical practice guideline for the management of stroke rehabilitation.** 2003 Feb (revised 2010 Oct). NGC:008250  
American Heart Association - Professional Association; American Stroke Association - Disease Specific Society; Department of Defense - Federal Government Agency [U.S.]; Department of Veterans Affairs - Federal Government Agency [U.S.]; Veterans Health Administration - Federal Government Agency [U.S.]. *View all guidelines by the developer(s)*
8. **Rehabilitation. In: Clinical guidelines for stroke management 2010.** 2005 Sep 8 (revised 2010 Sep). NGC:008108  
National Stroke Foundation (Australia) - Nonprofit Organization. *View all guidelines by the developer(s)*
9. **Guide to the care of the hospitalized patient with ischemic stroke. 2nd edition.** 2008. NGC:006947  
American Association of Neuroscience Nurses - Professional Association. *View all guidelines by the developer(s)*

## Guideline Summary

 Print    **Download as:** PDF (Adobe Reader ) | Word | HTML | XML    **Export to:** Citation Manager

### Guideline Title

**VA/DoD clinical practice guideline for the management of stroke rehabilitation.**

### Bibliographic Source(s)

Management of Stroke Rehabilitation Working Group. VA/DoD clinical practice guideline for the management of stroke rehabilitation. Washington (DC): Veterans Health Administration, Department of Defense; 2010. 150 p.

### Guideline Status

This is the current release of the guideline.

This guideline updates a previous version: Veterans Health Administration, Department of Defense. VA/DoD clinical practice guideline for the management of stroke rehabilitation in the primary care setting. Washington (DC): Department of Veteran Affairs; 2003 February. 150 p. [331 references]

#### Jump To

#### Guideline Classification

#### Related Content

- Scope
- Methodology
- Recommendations
- Evidence Supporting the Recommendations
- Benefits/Harms of Implementing the Guideline Recommendations
- Contraindications

- Qualifying Statements
- Implementation of the Guideline
- Institute of Medicine (IOM) National Healthcare Quality Report Categories
- Identifying Information and Availability
- Disclaimer

# NGC: Recommendations

## 1.6 Early Intervention of Rehabilitation Therapy

### *Recommendations*

1. Strongly recommend that rehabilitation therapy should start as early as possible, once medical stability is reached. **[A]**
2. Recommend that the patient receive as much therapy as "needed" and tolerated to adapt, recover, and/or reestablish the premorbid or optimal level of functional independence.

## 7.2 Determine Rehabilitation Setting

### *Recommendations*

1. The medical team, including the patient and family, must analyze the patient's medical and functional status, as well as expected prognosis in order to establish the most appropriate rehab setting. **[I]**
2. The severity of the patient's impairment, the rehabilitation needs, the availability of family/social support and resources, the patient/family goals and preferences and the availability of community resources will determine the optimal environment for care. **[I]**
3. Where comprehensive interdisciplinary community rehabilitation services and caregiver support services are available, early supported discharge services may be provided for people with mild to moderate disability. **[B]**
4. Recommend that patients remain in an inpatient setting for their rehabilitation care if they are in need of daily professional nursing services, intensive physician care, and/or multiple therapeutic interventions.
5. Inconclusive evidence to recommend the superiority of one type of rehabilitation setting over another.
6. Patients should receive as much therapy as they are able to tolerate in order to adapt, recover, and/or reestablish their premorbid or optimal level of functional independence. **[B]**

# NGC: Related Content (Full Text)

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### Management of Stroke Rehabilitation (2010)

#### About the CPG

The guideline is formatted as three algorithms, with annotations:

- Algorithm A  
- Assessment
- Algorithm B  
- Inpatient Rehabilitation
- Algorithm C  
- Community-based Rehabilitation

[Questions about the Stroke Guideline](#)

#### Guideline Links

-  [Stroke Full Guideline \(2010\)](#)
-  [Stroke Summary \(2010\)](#)
-  [Stroke Pocket Card \(2010\)](#)

The guideline describes the critical decision points in the Management of Stroke Rehabilitation and provides clear and comprehensive evidence based recommendations incorporating current information and practices for practitioners throughout the DoD and VA Health Care systems. The guideline is intended to improve patient outcomes and local management of patients who have suffered a stroke.

**Disclaimer:** This Clinical Practice Guideline is intended for use only as a tool to assist a clinician/healthcare professional and should not be used to replace clinical judgment.



VA/DoD Clinical Practice Guideline  
**Management of Stroke Rehabilitation**  
VA/DoD Evidence Based Practice

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# MedlinePlus: Speech & Communication Disorders

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**Speech and Communication Disorders**   [Search Help](#)

Many disorders can affect our ability to speak and communicate. They range from saying sounds incorrectly to being completely unable to speak or understand speech. Causes include

- Hearing disorders and deafness
- Voice problems, such as dysphonia or those caused by cleft lip or palate
- Speech problems like stuttering
- Developmental disabilities
- Learning disorders
- Autism
- Brain injury
- Stroke



Some speech and communication problems may be genetic. Often, no one knows the causes. By first grade, about 5 percent of children have noticeable speech disorders. Speech and language therapy can help. ([Read more](#))

Results 1 – 10 of 2,968 for communication disorders

- [Speech and Communication Disorders](#) (National Library of Medicine) ... help. NIH: National Institute on Deafness and Other Communication Disorders [www.nlm.nih.gov/.../speechandcommunicationdisorders.html](http://www.nlm.nih.gov/.../speechandcommunicationdisorders.html) – Health Topics
- [Incidence and Prevalence of Communication Disorders and Hearing Loss in Children](#) (American Speech-Language-Hearing Association) Incidence and Prevalence of Communication Disorders and Hearing Loss in Children – 2008 Edition Communication disorders are among the most common disabilities in the United States. A ... [www.asha.org/research/reports/children.htm](http://www.asha.org/research/reports/children.htm) – External Health Links
- [ClinicalTrials.gov: Communication Disorders](#) NIH (National Institutes of Health) [clinicaltrials.gov/.../condition="Communication+Disorders"](http://clinicaltrials.gov/.../condition=) – External Health Links
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## Overviews

- [Speech and Language Impairments](#) (National Dissemination Center for Children with Disabilities)  
Also available in [Spanish](#)
- [Speech–Language Disorders and the Speech–Language Pathologist](#) (American Speech–Language–Hearing Association)

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- [Scientists Use Brain Waves to Eavesdrop on the Mind](#) (02/01/2012, HealthDay)

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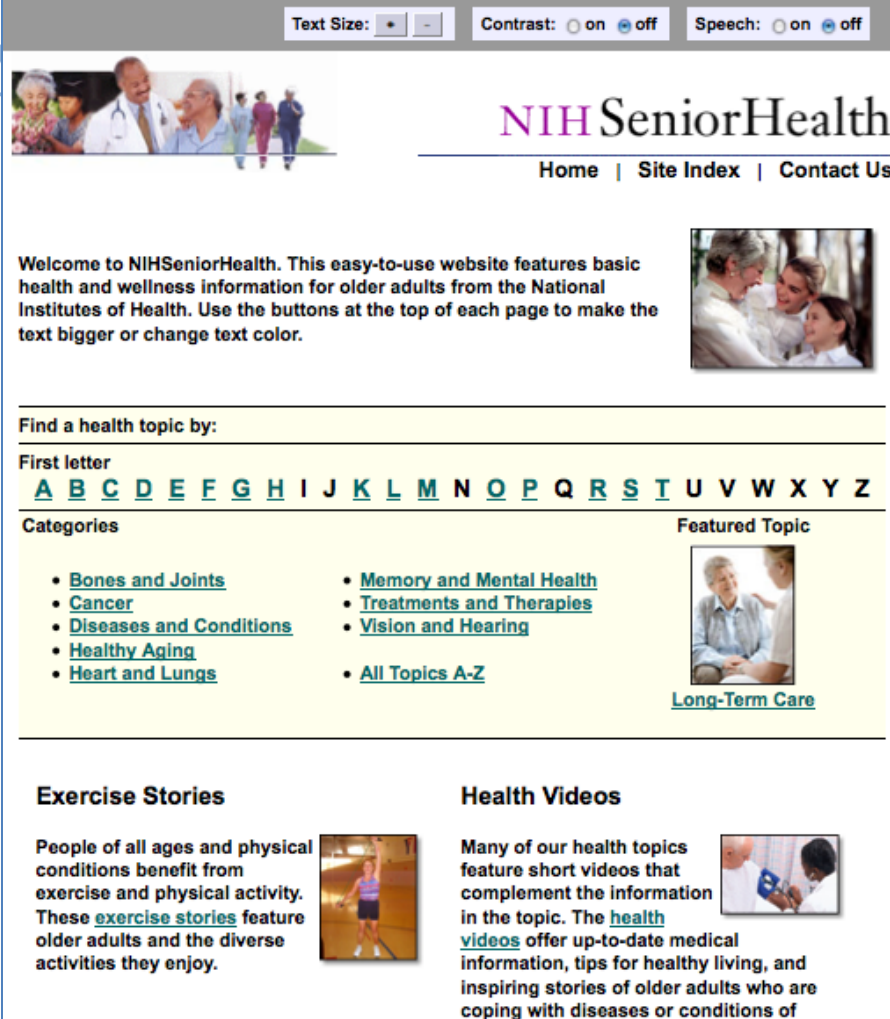
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# NIH Senior Health (from MedlinePlus)

<http://nihseniorhealth.gov>

- Senior-specific info
- Text size
- Screen contrast
- Speech



The screenshot shows the NIH Senior Health website with a navigation bar at the top containing 'Text Size', 'Contrast', and 'Speech' options. The main header features the site logo and navigation links for 'Home', 'Site Index', and 'Contact Us'. A large banner image shows a doctor with patients. Below the banner is a welcome message and a search section with a 'Find a health topic by:' label and a row of letters from A to Z. The 'Categories' section lists links for 'Bones and Joints', 'Cancer', 'Diseases and Conditions', 'Healthy Aging', 'Heart and Lungs', 'Memory and Mental Health', 'Treatments and Therapies', 'Vision and Hearing', and 'All Topics A-Z'. A 'Featured Topic' section highlights 'Long-Term Care' with an accompanying image. At the bottom, there are two sections: 'Exercise Stories' with a photo of a woman exercising and 'Health Videos' with a photo of a person using a video screen.

Text Size:

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## NIH SeniorHealth

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### Health Videos

Many of our health topics feature short videos that complement the information in the topic. The [health videos](#) offer up-to-date medical information, tips for healthy living, and inspiring stories of older adults who are coping with diseases or conditions of



# PEDro

<http://www.pedro.org.au/>

“PEDro is the Physiotherapy Evidence Database. PEDro is a free database of over 21,000 randomised trials, systematic reviews and clinical practice guidelines in physiotherapy. For each trial, review or guideline, PEDro provides the citation details, the abstract and a link to the full text, where possible. **All trials on PEDro are independently assessed for quality. These quality ratings are used to quickly guide users to trials that are more likely to be valid and to contain sufficient information to guide clinical practice.** PEDro is produced by the Centre for Evidence-Based Physiotherapy at The George Institute for Global Health.

# PEDro: Allied Health Evidence search

- Search PEDro in combination with OTseeker, PsycBITE and speechBITE

Allied Health Evidence

HOME CONTACT



Welcome to Allied Health Evidence. This is a search tool that allows you to locate research across 4 databases at once: PEDro, OTseeker, SpeechBITE and PsycBITE.

These databases provide the citation details, and where possible, the abstract and link to the full text of research about treatments relevant to Physiotherapy (PEDro), Occupational Therapy (OTseeker), and Speech Pathology (speechBITE). PsycBITE contains research about cognitive, behavioural and other treatments for psychological problems and issues occurring as a consequence of acquired brain impairment (ABI). In addition, each database provides critical appraisal details for many of the studies that are indexed.

**Keyword search**

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# PEDro: Allied Health Evidence

speechBITE™

Speech Pathology Database for Best Interventions and Treatment Efficacy

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Authors	Title	Year	Method	Rating	Select article
Bessell A, Hooper L, Shaw WC, Reilly S, Reid J, Glenny A-M	Feeding interventions for growth and development in infants with cleft lip, cleft palate or cleft lip and palate	2011	Systematic Review	N/A	<a href="#">Add</a>
Lee ASY, Law J, Gibbon FE	Electropalatography for articulation disorders associated with cleft palate	2009	Systematic Review	N/A	<a href="#">Add</a>
Ponduri S, Bradley R, Ellis PE, Brookes ST, Sandy JR, Ness AR	The management of otitis media with early routine insertion of grommets in children with cleft palate -- a systematic review	2009	Systematic Review	N/A	<a href="#">Add</a>
Nasser M, Fedorowicz Z, Newton T, Nouri M	Interventions for the management of submucous cleft palate	2008	Systematic Review	N/A	<a href="#">Add</a>
Chanchareonsook N, Samman N, Whitehill TL	The effect of cranio-maxillofacial osteotomies and distraction osteogenesis on speech and velopharyngeal status: a critical review	2006	Systematic Review	N/A	<a href="#">Add</a>
Glenny AM, Hooper L, Shaw WC, Reilly S, Kasem S, Reid J	Feeding interventions for growth and development in infants with cleft lip, cleft palate, cleft lip and palate	2006	Systematic Review	N/A	<a href="#">Add</a>

# PEDro: Allied Health Evidence

## Details

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**Authors:** Pamplona MC, Ysunza A, Espinosa J  
**Title:** A comparative trial of two modalities of speech intervention for compensatory articulation in cleft palate children, phonologic approach versus articulatory approach  
**Source:** International Journal of Pediatric Otorhinolaryngology 1999 49(1): 21-26  
**Abstract:** Copyright release for this abstract has not been obtained. The abstract can be viewed at the journal's website [here](#)

**Method:** Randomised Controlled Trial

**Rating:** 05/10  
This rating is confirmed  
Eligibility specified - Y  
Random allocation - Y  
Concealed allocation - N  
Baseline comparability - N  
Blind subjects - N  
Blind therapists - N  
Blind assessors - Y  
Adequate follow-up - Y  
Intention-to-treat analysis - N  
Between-group comparisons - Y  
Point estimates and variability - Y

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### **Speech and language therapy interventions for children with primary speech and language delay or disorder**

Primary speech and language delay/disorder is a common developmental difficulty which, if unresolved, can cause difficulties of both learning and socialisation lasting into adolescence and beyond. This review examines the effectiveness of speech and language therapy interventions for children with primary speech and language delay/disorder. The review ...

### **Speech and language therapy for speech problems in Parkinson's disease**

Many people with Parkinson's disease suffer from disorders of speech. The most frequently reported speech problems are weak, hoarse, nasal or monotonous voice, imprecise articulation, slow or fast speech, difficulty starting speech, impaired stress or rhythm, stuttering and tremor. People with the condition also tend to give fewer non-verbal cues, such ...

### **Speech and language therapy for speech problems in Parkinson's disease**

Many people with Parkinson's disease suffer from disorders of speech. The most frequently reported speech problems are weak, hoarse, nasal or monotonous voice, imprecise articulation, slow or fast speech, difficulty starting speech, impaired stress or rhythm, stuttering and tremor. People with the condition also tend to give fewer non-verbal cues such ...

### **Speech therapy for children with early acquired dysarthria**

Dysarthria is a disorder which reduces the control of movements for speech. Children with dysarthria often have shallow, irregular breathing and speak on small, residual pockets of air. They have low pitched, harsh voices, nasalised speech and very poor articulation. Together, these difficulties make the children's speech difficult to understand. Dysarthria ...

### **Speech and language therapy for dysarthria due to non-progressive brain damage**

Speech and language therapy treatments for people with dysarthria have not been tested in large clinical trials. Dysarthria is a speech problem which can be caused by a number of brain disorders including conditions such as stroke and head injury. Typical features of dysarthria include slurring of speech and quiet voice volume. Psychological distress ...

# But here's the problem...



Lack of high-level, quality research in  
SLH

## Speech and language therapy versus placebo or no intervention for speech problems in Parkinson's disease

Herd, Clare P<sup>2</sup>; Tomlinson, Claire L<sup>3</sup>; Deane, HO Katherine<sup>4</sup>; Brady, Marian C<sup>5</sup>; Smith, Christina H<sup>6</sup>; Sackley, Catherine<sup>7</sup>; Clarke, Carl E<sup>1</sup>

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Cowcaddens Road Glasgow UK G4 0BA

<sup>6</sup>University College London

Psychology and Language Sciences

London UK

<sup>7</sup>University of Birmingham

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Primary Care Clinical Sciences Building Edgbaston Birmingham UK B15 2TT

Cochrane Movement Disorders Group

Carl E Clarke c.e.clarke@bham.ac.uk

**Authors' conclusions:** Although improvements in speech impairments were noted in these studies, due to the small number of patients examined, methodological flaws, and the possibility of publication bias, there is insufficient evidence to conclusively support or refute the efficacy of SLT for speech problems in Parkinson's disease. A large well designed placebo-controlled RCT is needed to demonstrate SLT's effectiveness in Parkinson's disease. The trial should conform to CONSORT guidelines. Outcome measures with particular relevance to patients with Parkinson's disease should be chosen and patients followed for at least six months to determine the duration of any improvement.

## Comparison of speech and language therapy techniques for speech problems in Parkinson's disease

Herd, Clare P<sup>2</sup>; Tomlinson, Claire L<sup>3</sup>; Deane, HO Katherine<sup>4</sup>; Brady, Marian C<sup>5</sup>; Smith, Christina H<sup>6</sup>; Sackley, Catherine<sup>7</sup>; Clarke, Carl E<sup>1</sup>

### ▼ Author Information

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<sup>2</sup>College of Medical and Dental Sciences  
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<sup>3</sup>University of Birmingham  
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<sup>4</sup>University of East Anglia  
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<sup>5</sup>Glasgow Caledonian University  
Nursing, Midwifery and Allied Health Professions Research Unit  
Cowcaddens Road Glasgow UK G4 0BA

<sup>6</sup>University College London  
Psychology and Language Sciences  
London UK

<sup>7</sup>University of Birmingham  
Primary Care Clinical Sciences  
Primary Care Clinical Sciences Building Edgbaston Birmingham UK B15 2TT  
Cochrane Movement Disorders Group  
Carl E Clarke c.e.clarke@bham.ac.uk

**Background:** Patients with Parkinson's disease commonly suffer from speech and voice difficulties such as impaired articulation and reduced loudness. Speech and language therapy (SLT) aims to improve the intelligibility of speech with behavioural treatment techniques or instrumental aids.

**Objectives:** To compare the efficacy and effectiveness of novel SLT techniques versus a standard SLT approach to treat Parkinsonian speech problems.

**Search methods:** We identified relevant, published prior to 11<sup>th</sup> April 2011, by electronic searches of numerous literature databases including CENTRAL, MEDLINE and CINAHL, as well as handsearching relevant conference abstracts and examining reference lists in identified studies and other reviews.

**Selection criteria:** Only randomised controlled trials (RCT) of one type of speech and language therapy versus another were included.

**Data collection and analysis:** Two review authors independently extracted data and resolved differences by discussion.

**Main results:** Six trials involving 159 patients satisfied the inclusion criteria. Data could not be analysed from one trial due to changes in patient numbers and from a second because the data provided were not in a usable format. All trials reported intelligibility measures but a statistically significant result was only reported for the diagnostic rhyme test used in the study of Lee Silverman Voice Treatment -LOUD (LSVT-LOUD) versus a modified version of this therapy (LSVT-ARTIC). In this case a difference of 12.5 points (95% confidence interval (CI) -22.2 to -2.8; P = 0.01) between the mean changes in favour of the LSVT-LOUD group was reported for a speech sample overlaid with Babble noise; this difference was not reproduced for the two additional noise conditions under which the speech samples were assessed. LSVT-LOUD also outperformed LSVT-ARTIC and Respiration therapy (RT) in improving loudness, with a difference in reading a sample text of 5.0 dB (95%CI -8.3 to -1.7; P = 0.003) and 5.5 dB (95% CI 3.4 to 7.7; P < 0.00001) respectively, and a difference in monologue speech of 2.9 dB (95% CI 0.6 to 5.2; P = 0.01) versus RT.

**Authors' conclusions:** Considering the small patient numbers in these trials, there is insufficient evidence to support or refute the efficacy of any form of SLT over another to treat speech problems in patients with Parkinson's disease.

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1. [Perceptions of University Instructors toward Students Who Stutter: A Quantitative and Qualitative Approach](#) (EJ946544)

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**Author(s):** [Daniels, Derek E.](#); [Panico, James](#); [Sudholt, Jennifer](#) **Pub Date:** 2011-00-00  
**Source:** Journal of Communication Disorders, v44 n6 p631-639 Nov-Dec 2011 **Pub Type(s):** Journal Articles; Reports - Research  
**Peer Reviewed:** Yes

**Descriptors:**

[Stuttering](#); [Teacher Attitudes](#); [College Students](#); [College Faculty](#); [Teacher Surveys](#); [Qualitative Research](#); [Statistical Analysis](#); [Student Participation](#); [Questionnaires](#)

**Abstract:**

Many research studies have focused on perceptions of stuttering by various groups of people. However, there is limited research on the perceptions of university instructors toward stuttering and people who stutter. Therefore, this study explored the perceptions of university instructors toward stuttering and students who stutter [Show Full Abstract](#)

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1. [Articulation Rate and Its Relationship to Disfluency Type, Duration, and Temperament in Preschool Children Who Stutter](#) (EJ909535) [Share](#) [Add](#)

**Author(s):** [Tumanova, Victoria](#); [Zebrowski, Patricia M.](#); [Throneburg, Rebecca N.](#); [Kayikci, Mavis E. Kulak](#) **Pub Date:** 2011-00-00

**Source:** Journal of Communication Disorders, v44 n1 p116-129 Jan-Feb 2011 **Pub Type(s):** Journal Articles; Reports - Research

**Peer Reviewed:** Yes

**Descriptors:** [Articulation \(Speech\)](#); [Syllables](#); [Stuttering](#); [Preschool Children](#); [Personality](#); [Correlation](#); [Models](#); [Outcomes of Education](#); [Measurement](#)

**Abstract:**  
The purpose of this study was to examine the relationship between articulation rate, frequency and duration of disfluencies of different types, and temperament in preschool children who **stutter** (CWS). In spontaneous speech samples from 19 CWS (mean age = 3:9; years:months), we measured articulation rate, the frequency and duration of (a) sound prolongations; (b) [Show Full Abstract](#)

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

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| <p><b>1. <a href="#">Dysphagia: Myasthenia Gravis in Children</a></b> Cable A; Richman S; CINAHL Rehabilitation Guide, EBSCO Publishing, 2011 Dec 16. (19p) (clinical review)<br/>  <a href="#">HTML Full Text</a>  <a href="#">PDF Full Text (431K)</a></p>     | <br><a href="#">Add</a>   |
| <p><b>2. <a href="#">Dysphagia: Guillain-Barré Syndrome</a></b> Cable A; Richman S; CINAHL Rehabilitation Guide, EBSCO Publishing, 2012 Jan 27. (16p) (clinical review)<br/>  <a href="#">HTML Full Text</a>  <a href="#">PDF Full Text (434K)</a></p>           | <br><a href="#">Add</a>   |
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| <p><b>4. <a href="#">Dysphagia: Duchenne's Muscular Dystrophy</a></b> Cable A; Richman S; CINAHL Rehabilitation Guide, EBSCO Publishing, 2011 Nov 25. (19p) (clinical review)<br/>  <a href="#">HTML Full Text</a>  <a href="#">PDF Full Text (425K)</a></p> | <br><a href="#">Add</a>   |
| <p><b>5. <a href="#">Dysphagia: Autism</a></b> Cable A; Richman S; CINAHL Rehabilitation Guide, EBSCO Publishing, 2011 Dec 23. (13p) (clinical review)<br/>  <a href="#">HTML Full Text</a>  <a href="#">PDF Full Text (382K)</a></p>                        | <br><a href="#">Add</a> |
| <p><b>6. <a href="#">Dysphagia: Rett Syndrome</a></b> Cable A; Richman S; CINAHL Rehabilitation Guide, EBSCO Publishing, 2011 Nov 25. (19p) (clinical review)</p>  | <br><a href="#">Add</a> |

Problem	Goal	Intervention	Expected Progression	Home Program
Anxiety involving food and mealtimes	Reduce anxiety associated with food and mealtimes	<b>Social stories</b> A concise story can be prepared at the child's comprehension level that teaches the child what to do in specific social situations including mealtimes <sup>(3)</sup>	Progression of therapy tasks will vary according to patient goals	Social stories should be used at home/school
Maladaptive eating routines	Replace maladaptive eating routines with beneficial routines	<b>Implementing new mealtime routines</b> Maladaptive eating routines can include food selectivity or difficulties with the process of eating (e.g., overstuffing food). Replace maladaptive routines with new ones by involving the child in selecting food from a set of choices, teaching the child to select a type of food from each food group, and establishing rules that govern food choices (e.g., the same food can only be eaten every other day). For impulsive eating behaviors, teach explicit eating sequences to help the child develop safer eating patterns (e.g., "Take a small bite, chew, swallow; take a small bite, chew, swallow") <sup>(3)</sup>	Progression of therapy tasks will vary according to patient goals	New routines should be used at home/school
Oral hyposensitivity or oral hypersensitivity to certain foods	Minimize the effect of sensory processing on maladaptive mealtime behaviors and food preferences	<b>Sensory strategies</b> Specific strategies may include a variety of oral and facial massage techniques as well as introduction of different tastes, temperatures, and textures of food and use of equipment such as straws and chewy tubes. For example, to introduce a nonpreferred food item, the therapist may change the texture of the food to make it more acceptable (e.g., change apples into applesauce or apple puree). Collaborate with an OT as necessary. <sup>(3)</sup> Generalizations regarding the use of sensory-based strategies with children with autism and feeding difficulties cannot be made due to the absence of empirical evidence <sup>(3)</sup>	Progression of therapy tasks will vary according to patient goals	Sensory strategies should be used at home and school
Maladaptive behaviors and stress during mealtimes	Decrease stress and inappropriate behaviors during mealtimes	<b>Environmental modifications</b> Provide an environmentally friendly place and predictable routines during mealtime: <sup>(3)</sup> <ul style="list-style-type: none"> <li>Clearly define a physical space for eating (e.g., child-sized chair, feet flat on the floor, match table height)</li> <li>Reduce any environmental distractions such as TV, harsh lighting, loud noises, and excess traffic</li> <li>Social modeling by peers may assist the child with autism in developing more adaptive mealtime behaviors</li> </ul>	N/A	Environmental modifications should be used at home and school
Food aversions and/or inappropriate mealtime behaviors (e.g., refusal to eat, tantrum)	Decrease stress and inappropriate behaviors during mealtimes	<b>Behavioral treatment techniques</b> Behavioral treatment should be based upon the results of a detailed functional behavior analysis of mealtime behaviors. Treatment may include escape-avoidance extinction, positive reinforcement and shaping, and fading techniques <sup>(4)</sup>	Progression of therapy tasks will vary according to patient goals	Behavioral treatment techniques should be implemented at home/school

# Resource Guides online

## UM SLP Guide

<http://guides.lib.umich.edu/slp>

## MSU Communicative Sciences & Disorders Guide

<http://libguides.lib.msu.edu/csd>

## CMU Communication Disorders Guide

<http://libraryguides.cmich.edu/content.php?pid=198043>

## WMU Speech Pathology Guide

<http://libguides.wmich.edu/SpeechPathology>



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Questions?



# Thank you all!

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