Searching for Evidence

Internet Approaches that are Quick, Painless and Effective

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Early Intervention
NICU
School-based
Adults
Aquatic PT

Agenda
- Asking the right question
- Medline
- Hooked on Evidence
- Cochrane
- CINAL
- Real Live On-Line Adventure

Real Live On-Line Adventures
- PWBTT
- Theratogs
- Adeli Suit
- Your challenges/experiences

Phrasing Your Question
- Use quotation marks
  "cerebral palsy" vs cerebral palsy
- Shorten the word (omit ending)
  child vs children
  Stand vs standing
- Use the word “and”
  "cerebral palsy" and "child"

Let’s go online and play
- Log on to www.apta.org
- Enter your name and password
- Click on Research
- Click on APTA's Medline Search Page
- I want to do my own search of the MEDLINE database at the National Library of Medicine
Getting to Medline

  click on MEDLINE/PubMed, MedlinePlus, NLM Gateway
  click on MEDLINE/PubMed
  Now you are in. You can go right here if you don’t want full text articles from PT Journal

Now Let’s play

- Cerebral Palsy -11037 hits
- Cerebral Palsy and children -6819 hits
- Cerebral Palsy and children and stand -121 hits
- Cerebral Palsy and children and standing -72 hits
- Cerebral Palsy and children and stander -2 hits


- Get the abstracts
  - Search constraint induced therapy
  - Click on reference
- Get similar articles
  - Click related articles
- Look by Author

Getting the Full Text Article

- Configure your proxy for your local university library (call for help)
- Buy them (approx $10-$15 per article)
- Stick to journals you already subscribe to

PT Journal

- Must be an APTA member
- If article on Medline is from the Journal then click on full text.

Pediatric PT Journal

- IS NOT ON MEDLINE!
- www.pediatricapta.org/members/peds-publications.cfm
- You must be a member of the pediatric section and enter your APTA membership number and password
**Hooked on Evidence**
- Aptap.org
- Research
- Hooked on Evidence
- Must be APTA member
- Cerebral Palsy and Strength

**Cochrane**
- [http://www.cochrane.org](http://www.cochrane.org)
- International non-profit and independent organization, dedicated to making up-to-date, accurate information about the effects of healthcare readily available worldwide. It was founded in 1993 and named for the British epidemiologist, Archie Cochrane.
- Treadmill

**CINAHL**
- [http://www.cinahl.com](http://www.cinahl.com)
- Clinical Index of Nursing and Allied Health Literature
- Started in 1994, now 3,442,915 citations in the database
- Need access thru your library

**Joe Schmoe**
- You are not a member of APTA, and not affiliated with a university library
- Stuff off the regular Internet may be biased and just plain lies
- Search Engines
  - Dogpile.com is a metasearch engine
  - Google can find just images

**PWBTT**
- Let’s begin with Medline
  - BWS
  - Lufband
  - Supported and "Treadmill Training"
PubMed/Medline

* "partial weight bearing" and treadmill
  - Yields 3 hits
* "weight support" and treadmill
  - Yields 79 hits
* Laufband and treadmill
  - Yields 6 hits

PWBTT and CP

* "cerebral palsy" and treadmill
  - Yields 22 hits
* Schindl MR, Forstner C, Kern H, Hesse S. Related Articles
  - Yields 356 hits

Dynamic Lycra Splinting

* Benik (www.benik.com)
* Theratogs (www.theratogs.com)
* Adeli Suit
* Upsuit
* Spio

Compression Garments

* Gracies JM, Marosszeky JE, Renton R, Sandanam J, Gandevia SC, Burke D.
* Hylton N, Allen C.
* Blair E, Ballantyne J, Horsman S, Chauvel P.
* Nicholson JH, Morton RE, Attfield S, Rennie D.
* Rennie DJ, Attfield SF, Morton RE, Polak FJ, Nicholson J.
* Gracies JM, Fitzpatrick R, Wilson L, Burke D, Gandevia SC.
* Paleg, G., Hubbard, S., Brite, E. and K. O'Donnell.

Sologubov EG, Iavorskii AB, Kobrin VI, Barer AS, Bosykh VG.
[Role of vestibular and visual analyzers in changes of postural activity of patients with childhood cerebral palsy in the process of treatment with space technology]. Avakian Ekolog Med 1995;29(5):30-4

Semenova KA.
[Role of kinesiological training with robotic technology in the restorative treatment of patients with residual-stage infantile cerebral palsy]. Neurosci Behav Physiol 1997 Nov-Dec;27(6):639-43

70% of patients showed improvements in walking and self-care ability.

The positive effects of this method were demonstrated objectively using electroencephalography, electromyography, studies of somatosensory evoked potentials, and studies of the vestibular system.
25 children with spastic diplegia.

*Decrease of an amplitude of bioelectric activity in spastic muscles

*Increase of an amplitude of agonists' biopotentials at arbitrary movements.

*Improvement of motor functions

Results were obtained using a new method, based on the "Adeli-92" therapeutic space suit, for the rehabilitation of patients with movement disorders due to acute lesions of the cerebral circulation, head trauma, and other causes. A variety of methods was used to assess the state of patients before and after treatment, including clinical studies, psychological tests, EEG recordings, evoked potential studies, stabilography, and heart rhythm analysis. The results obtained demonstrate the high efficacy of this new method.