Objectives

• Conduct a literature search
• Overview of databases related to CSED
  – PubMed
  – Cochrane Library
  – CINAHL
  – ERIC
  – PsycINFO
  – Communication & Mass Media Complete
Plan a Literature Search

- Raise a question or find your search topic
- Clearly define your question or your search topic
- List appropriate search concepts or terms that can be used for searching
- Use keyword search or advanced search
Plan a Literature Search

• Determine the best resources for your search
• Review search results
• Repeat as necessary
Plan a Literature Search

Question
For children with autism, does the language intervention improve their communication?
Plan a Literature Search

- **Determine** the concept(s)

  **Concept A**
  autism

  **Concept B**
  language intervention
Boolean Operators

**Boolean Operator:** AND

autism AND language intervention

Contains both terms
Boolean Operators

Boolean Operator: OR

- autism OR autistic spectrum disorders

Diagram showing two sets A and B with the OR operator, indicating that the result contains any of the two terms.
Boolean Operators

Boolean Operator: NOT

Eliminate the records you don’t want

children NOT adult
Other Search Strategies

- **Truncation**
  - Symbols used when searching for suffix variations
  
  For example: therap* retrieves therapy, therapies, therapist and therapists
Other Search Strategies

• **Quotation marks**
  – Search an exact phrase “speech language disorders”

• **Search strings**
  – (autism **OR** autistic spectrum disorders)
  **AND** language intervention
PubMed Searching

• Developed by the National Library of Medicine (NLM), PubMed is one of the largest and most heavily used medical bibliographic databases in the world.
PubMed Searching

- **Scope**: Medicine, allied health, and more ...
- **Coverage**: 1950’s to the present
- **Source**: Over 5,000 biomedical journals from over 70 countries and 17 million citations
Search: Autism OR autistic spectrum disorders
1. Reichle J, Dropik PL, Allen-Anderson E, Haley T.
   Teaching a young child with autism to request assistance conditionally: a preliminary study.
   PMID: 18663105 [PubMed - in process]

2. Schlutter RW, Welsh O.
   Effects of augmentative and alternative communication intervention on speech production in children with autism: a systematic review.
   PMID: 18663107 [PubMed - in process]

   J Autism Dev Disord. 2008 Jul 15; [Epub ahead of print]
   PMID: 18626760 [PubMed - as supplied by publisher]

4. Sowden H, Perkins M, Clegg J.
   The co-development of speech and gesture in children with autism.
   Clin Linguist Phon. 2008 Apr 8;1-10. [Epub ahead of print]
Early communication development and intervention for children with autism.

Landa R

Center for Autism and Related Disorders, Kennedy Krieger Institute, Baltimore, Maryland, USA. landa@kennedykrieger.org

Autism is a neurodevelopmental disorder defined by impairments in social and communication development, accompanied by stereotyped patterns of behavior and interest. The focus of this paper is on the early development of communication in autism, and early intervention for impairments in communication associated with this disorder. An overview of components of communication is provided. Communication characteristics that are diagnostic of autism are summarized, with consideration of the overlap between social and communication impairments, particularly for children with autism functioning at the prelinguistic level. Early communication development and predictors of communication functioning in autism are examined, based on a review of prospective and retrospective studies. The focus of the discussion then turns to intervention. Consideration is given to the rationale for beginning intervention as early in life as possible for children with autism. Implications of motor, imitation, and play deficits for communication-based intervention are examined. Finally, issues related to the design and delivery of intervention for young children with autism are presented, along with a review of the major early intervention approaches for autism. Copyright 2007 Wiley-Liss, Inc.

Publication Types:
- Review

MeSH Terms:
- Autistic Disorder/epidemiology*
- Child
- Communication Disorders/diagnosis
- Communication Disorders/epidemiology*
- Communication Disorders/therapy*
The impact of augmentative and alternative communication intervention on the speech production of individuals with developmental disabilities: a research review.

Millar DC, Light JC, Schlosser RW.

The Pennsylvania State University, University Park, USA. dcmillar@radford.edu

PURPOSE: This article presents the results of a meta-analysis to determine the effect of augmentative and alternative communication (AAC) on the speech production of individuals with developmental disabilities. METHOD: A comprehensive search of the literature published between 1975 and 2003, which included data on speech production before, during, and after AAC intervention, was conducted using a combination of electronic and hand searches. RESULTS: The review identified 23 studies, involving 67 individuals. Seventeen of these studies did not establish experimental control, thereby limiting the certainty of evidence about speech outcomes. The remaining 6 studies, involving 27 cases, had sufficient methodological rigor for the "best evidence analysis" (cf. R. E. Slavin, 1986). Most of the participants (aged 2-60 years) had mental retardation or autism, the AAC interventions involved instruction in manual signs or non-electronic aided systems. None of the 27 cases demonstrated decreases in speech production as a result of AAC intervention, 11% showed no change, and the majority (89%) demonstrated gains in speech. For the most part, the gains observed were modest, but these data may underestimate the effect of AAC intervention on speech production because there were ceiling effects. CONCLUSIONS: Future research is needed to better delineate the relationship between AAC intervention and speech production across a wider range of participants and AAC interventions.

Publication Types:
- Meta-Analysis
- Review
1. Twachtman-Reilly J, Amaral SC, Zabrowski FP.

2. Kessiri C, Paparella T, Freeman S, Jahromi LB.
   Language outcome in autism: randomized comparison of joint attention and play interventions.

3. Bell HR, Alper BS.
   Assessment and intervention for dysphagia in infants and children: beyond the neonatal intensive care unit.

   The effectiveness of Picture Exchange Communication System (PECS) training for teachers of children with autism: a pragmatic, group randomised...
Why is MeSH Important?

- Improves precision while searching
- Increases recall by retrieving documents they employ different terms for the same concept
MeSH is the U.S. National Library of Medicine's controlled vocabulary used for indexing articles for MEDLINE/PubMed. MeSH terminology provides a consistent way to retrieve information that may use different terminology for the same concepts.

- Use the MeSH database to find Medical Subject Heading Terms and build a search strategy.

MeSH database tutorials:

- Searching with the MeSH Database
  Quick Tour
- Combining MeSH Terms
  Quick Tour
- Applying Subheadings and other features of the MeSH Database
  Quick Tour
1: Neoplasms

New abnormal growth of tissue. Malignant neoplasms show a greater degree of anaplasia and have the properties of invasion and metastasis, compared to benign neoplasms.

Year introduced: diagnosis was NEOPLASM DIAGNOSIS 1964-1965

2: Cancer Care Facilities

Institutions specializing in the care of cancer patients.

Year introduced: 1991 (Aug 1977)

3: American Cancer Society

A voluntary organization concerned with the prevention and treatment of cancer through education and research.

Year introduced: 1991 (1975)

4: Chemotherapy, Cancer, Regional Perfusion

Medical intervention against cancer through the administration of chemotherapy drugs directly to the affected region of the body.
CINAHL

• CINAHL, Cumulative Index to Nursing and Allied Health Literature, is the authoritative resource for nursing and allied health.
• Provides indexing for 2,737 journals and full text for more than 600 journals, dating back to 1982. However, be aware that CINAHL with Full Text does not include all the full text articles.
CINAHL with Full Text

• Covers more than 48 speech-language pathology journals and 27 audiology journals in CINAHL

• Provides access to health care books, dissertations, selected conference proceedings, standards of practice, educational software, audiovisuals and book chapters
PsycINFO

- PsycINFO is a product of the American Psychological Association (APA)
- Contains about 2.3 million citations and summaries of scholarly journal articles, book chapters, books, and dissertations in psychology and related disciplines, dating as far back as the 1800s
PsycINFO

• 97 percent of the covered material is peer-reviewed
• Includes international material selected from more than 2,100 periodicals in more than 25 languages
ERIC

- *ERIC*, the Education Resources Information Center, includes articles and monographs from more than 1,000 journals and more than 2,200 educations digests on a variety of subjects.

- It covers education, psychology, health, methods and techniques for teaching, and more. Some articles in full text are available.
Communication & Mass Media Complete

- This database provides the citations related to communication, communication disorders, and mass media.
- It offers complete indexing and abstracts for over 370 journals and select coverage of 230 more for a combined coverage of over 600 titles.
Business Source Complete
Business Source Complete is the world's definitive scholarly business database, providing the leading collection of bibliographic and full text content. As part of the comprehensive coverage offered by this database, indexing and abstracts for the most important scholarly business journals back as far as 1886 are included. In addition to the searchable cited references provided for more than 1,200 journals.

CINahl with Full Text
CINahl with Full Text is the world's most comprehensive source of full text for nursing & allied health journals, providing full text for more than 600 journals indexed in CINahl. This authoritative file contains full text for many of the most used journals in the CINahl index - with no embargo. Full-text coverage dates back to 1981.

Communication & Mass Media Complete
Communication & Mass Media Complete provides the most robust, quality research solution in areas related to communication and mass media. CMCC incorporates the content of CommSearch (formerly produced by the National Communication Association) and Mass Media Articles Index (formerly produced by Penn State) along with numerous other journals in communication, mass media, and other closely-related fields of study to create a research and reference resource of unprecedented scope and depth encompassing the breadth of the communication discipline. CMCC offers cover-to-cover (“core”) indexing and abstracts for more than 440 journals, and selected (“priority”) coverage of nearly 200 more, for a combined coverage of more than 640 titles. Furthermore, this database includes full text for 326 journals.

Computer Source
Computer Source provides researchers with the latest information and current trends in high technology. This database offers full text for nearly 300 publications and indexing and abstracts for nearly 450 publications.

Computers & Applied Sciences Complete
Computers & Applied Sciences Complete covers the research and development spectrum of the computing and applied sciences disciplines. CASC provides indexing and abstracts for more than 1,300 academic journals, professional publications, and other reference sources from a diverse collection. Full text is also available for more than 730 periodicals.

Corporate ResourceNet
Corporate ResourceNet is designed to meet the diverse information needs of today's companies. This database contains full text articles from nearly 1,200 quality magazines and journals.
Education Research Complete

Education Research Complete is the definitive online resource for education research. Topics covered include all levels of education from early childhood to higher education, and all educational specialties, such as multilingual education, health education, and testing. Education Research Complete provides indexing and abstracts for more than 1,840 journals, as well as full text for more than 950 journals, and includes full text for more than 81 books and monographs, and for numerous education-related conference papers.

More Information
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<th>Database</th>
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<tr>
<td><strong>Primary Search</strong></td>
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<td><em>Primary Search</em> provides full text for nearly 70 popular, magazines for elementary school research. All full text articles included in the database are assigned a reading level indicator (Lexiles), and full text information dates as far back as 1990.</td>
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<td><strong>Professional Development Collection</strong></td>
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<td><em>Designed for professional educators, this database provides a highly specialized collection of 520 high quality education journals, including nearly 350 peer-reviewed titles. This database also contains more than 200 educational reports. Professional Development Collection is the most comprehensive collection of full text education journals in the world.</em></td>
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<tr>
<td><strong>Psychology and Behavioral Sciences Collection</strong></td>
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<tr>
<td><em>This database provides nearly 575 full text publications, including nearly 550 peer-reviewed titles. Psychology &amp; Behavioral Sciences Collection covers topics such as emotional and behavioral characteristics, psychiatry &amp; psychology, mental processes, anthropology, and observational and experimental methods. Nearly every full text article included in this database is indexed in PsycINFO. This database is updated daily via EBSCOhost.</em></td>
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<td><strong>PsycINFO</strong></td>
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<td><em>PsycINFO, from the American Psychological Association (APA), contains nearly 2.4 million citations and summaries of scholarly journal articles, book chapters, books, and dissertations, all in psychology and related disciplines, dating as far back as the 1800s. 98 percent of the covered material is peer-reviewed. Journal coverage, which spans 1887 to present, includes international material selected from more than 2,200 periodicals in more than 27 languages.</em></td>
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<td><strong>Regional Business News</strong></td>
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<td><em>This database provides comprehensive full text coverage for regional business publications. Regional Business News incorporates coverage of 75 business journals, newspapers and newswires from all metropolitan and rural areas within the United States. This database is updated on a daily basis.</em></td>
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<tr>
<td><strong>Religion and Philosophy Collection</strong></td>
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<tr>
<td><em>Religion &amp; Philosophy Collection provides extensive coverage of such topics as world religions, major denominations, biblical studies, religious history, epistemology, political philosophy, philosophy of language, moral philosophy and the history of philosophy. Religion &amp; Philosophy Collection offers nearly 300 full text journals, including more than 250 peer-reviewed titles, making it an essential tool for researchers and students of theology and philosophical studies.</em></td>
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well as from over 2,800 "selective" coverage journals.

- **Sociological Collection**
  This database provides coverage of more than 500 full text journals, including nearly 500 peer-reviewed titles. *Sociological Collection* offers information in all areas of sociology, including social behavior, human tendencies, interaction, relationships, community development, culture and social structure. This database is updated daily via EBSCOhost.

- **SPORTDiscus with Full Text**
  *SPORTDiscus with Full Text* is the world's most comprehensive source of full text for sports & sports medicine journals, providing full text for more than 430 journals indexed in *SPORTDiscus*. This authoritative file contains full text for many of the most used journals in the *SPORTDiscus* index - with no embargo. With full-text coverage dating back to 1985, *SPORTDiscus with Full Text* is the definitive research tool for all areas of sports & sports medicine literature.

- **Teacher Reference Center**
  Provides indexing and abstracts for more than 270 of the most popular teacher and administrator journals and magazines to assist professional educators.

- **TOPICsearch**
  This current events database allows researchers to explore social, political & economic issues, scientific discoveries and other popular topics discussed in today's classrooms. *TOPICsearch* contains full text for over 139,800 articles from more than 4,800 diverse sources.

- **Vocational and Career Collection**
  *Vocational & Career Collection* is designed for vocational and technical libraries servicing high schools, community colleges, trade institutions and the general public. This collection provides full text coverage for more than 350 trade and industry-related periodicals.

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Continue
Searching: CINAHL with Full Text

(autism or autistic spectrum disorder) and language interven

Search Options

Search modes
- Boolean/Phrase
- Find all my search terms
- Find any of my search terms

Limit your results
- Linked Full Text
- Published Date from

Special limiters for CINAHL with Full Text
Searching: CINAHL with Full Text

(autism or autistic spectrum disorder*) and language intervention

Results for: (autism or autistic spectrum disorder*) and language intervention

1. Scaffolding Strategies During Repeated Storybook Reading: An Extension Using a Voice Output Communication Aid,  
   PDF Full Text (319KB)

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1. Scaffolding Strategies During Repeated Storybook Reading: An Extension Using a Voice Output Communication Aid.
   By: Bellon-Harn, Monica L.; Harn, William E. Focus on Autism & Other Developmental Disabilities, Summer 2008, Vol. 23 Issue 2, p112-124, 13p, 7 charts, 7 graphs; (AN 32040028)
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2. A Qualitative Examination of Current Guidelines for Evidence-Based Practice in Child Language Intervention.
   By: Brackenbury, Tim; Burroughs, Elizabeth; Hewitt, Lynne E. Language, Speech, & Hearing Services in Schools, Jan 2008, Vol. 39 Issue 1, p78-88, 11p, 1 chart; (AN 28025855)
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3. A Qualitative Examination of Current Guidelines for Evidence-Based Practice in Child Language Intervention
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The Cochrane Library is a collection of evidence-based medicine and clinical practice.

Consists of:

- Cochrane Database of Systematic Reviews (CDSR)
- Database of Abstracts of Reviews of Effectiveness (DARE)
Cochrane Library

- Consists of
  - Cochrane Central Register of Control Trials (CENTRAL)
  - Cochrane Database of Methodology Reviews (CDMR)
  - Cochrane Methodology Register (CMR)
  - Health Technology Assessment Database (HTA)
  - NHS Economic Evaluation Database (NHS EED)
Cochrane Library

- It brings the above databases together in one place for users to look at the effectiveness of different health care treatments and interventions
Welcome to The Cochrane Library

The Cochrane Library contains high-quality, independent evidence to inform healthcare decision-making. It includes reliable evidence from Cochrane and other systematic reviews, clinical trials, and more. Cochrane reviews bring you the combined results of the world’s best medical research studies, and are recognised as the gold standard in evidence-based healthcare.

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What’s New in Issue 2, 2007?
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Routine abdominal drainage for uncomplicated open cholecystectomy
Cancer genetic risk assessment for individuals at risk of familial breast cancer
Screening for abdominal aortic aneurysm
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Steroids for acute sinusitis
Interventions to improve hand hygiene compliance in patient care
Electronic mosquito repellents for preventing mosquito bites and malaria infection
New Reviews | Updated Reviews | Press Room

Release Notes
18 April: Changes with Issue 2, 2007... More
Search For: stuttering
AND intervention

SEARCH TIPS
Tip No. 1:
Boolean operators AND, OR, and NOT can be selected from the pull-down selection boxes or entered directly within the search text boxes. Use parentheses to separate components when entering complex search directly in text box with mixed Boolean operators.
Example: (corticosteroid AND iover) AND (fibrosis OR cirrhosis)

Tip No. 2:
The AND operator is used by default between search terms. The string brain stem will match records where both words are included in any order or proximity. Search for exact phrases by enclosing a string in quotation marks.
Example: "corticosteroid therapy"