

Undertaking a Systematic Literature Review

Hazel Allaway
Speech and Language Therapist
BCHC NHS Trust

Start of the Journey

Clinical Question

- If I work on a child's expressive language disorder in English does it carry over in to their home language?
- How do I find out the answer?

Research and Development

- BCHC ran a series of workshops on Research at Aston University
- You could win five hours of 1:1 Mentoring

The Package

- Carry out a literature review
- Link with Smallwood library
- Support from BCU Sarahjane Jones research fellow

What was I letting myself in for!

- A Systematic Literature review is referred to as original empirical research which reviews, evaluates and synthesizes all available primary data.
- It aims to identify and track down all the available literature on a topic with clear explanations of the approach taken.

Systematic Literature Review

- A clear research/review question
- Aims and objectives
- A methods section outlining how the review was undertaken
 - Comprehensive and thorough search
 - Search for hard to find articles
 - Develop inclusion and exclusion criteria
- A results section
 - Assess quality of literature to see if good enough to answer question
 - Only high quality and relevant papers should be included
- A discussion and conclusion
 - Combine findings of all papers
- EASILY REPEATABLE

A Clear Research Question

PICO

Search Straws

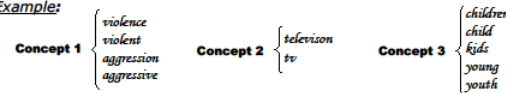
Search Strategy Development Worksheet

1. Write down your search topic in the form of a question and underline the key words or phrases.

Example: I want information on how violence on television affects children.

2. Divide these key words into concepts and list below. Use as many concept boxes as needed. List synonyms for each concept. Consider singular/plural forms, spelling variations, different word endings, etc.

Example:



	Concept 1	AND	Concept 2	AND	Concept 3
Term	-----		-----		-----
OR					
Term	-----		-----		-----
OR					
Term	-----		-----		-----

3. Construct your search strategy using Boolean operators, truncation, and parentheses.

Example: (violen* OR aggressi*) AND (television OR tv) AND (kid* OR child* OR young OR youth)

- Connect the synonyms with the Boolean operator "OR". You must use parentheses around your synonyms connected with OR.
"OR" broadens your search by gathering records in which one or more of your terms appear.
- Connect the concept sets with the Boolean operator "AND".
"AND" narrows your search by requiring that at least one term from each concept set be present.
- Use the appropriate truncation symbol (* ?) to search for words containing a common word root, with any number or combination of characters following that root.



A Comprehensive and Thorough Search

It's who you know!

Your Library – a huge resource



Base Library / Athens database

- BASE is a consortium of 20 NHS libraries in Birmingham, Solihull and the Black Country.
- As a BASE library member you can:
 - access around 90,000 resources including books, journals, DVDs and e-books.
 - access the collections of all 20 BASE libraries, you only need to join once.
- www.base-library.nhs.uk
- For access to many more online health resources, register for an Athens username and password at <https://register.athensams.net/nhs/nhseng/>.

Connections



- Support from Sarahjane to conduct the database search.
- Access to a much wider range of databases through BCU's search engines which included educational titles

Inclusion/ Exclusion

Which studies included in the review

Inclusion/Exclusion Criteria

- 3 part process:
 - By title
 - By abstract
 - By full article
- The studies needed to include:
 - Bilingual children with a diagnosis of specific language impairment
 - A therapy intervention for language
 - Compare progress/effect in both languages

Database Search

599 detected citations

307 excluded by repetition



292 reviewed at title

94 reviewed at abstract



16 reviewed in full

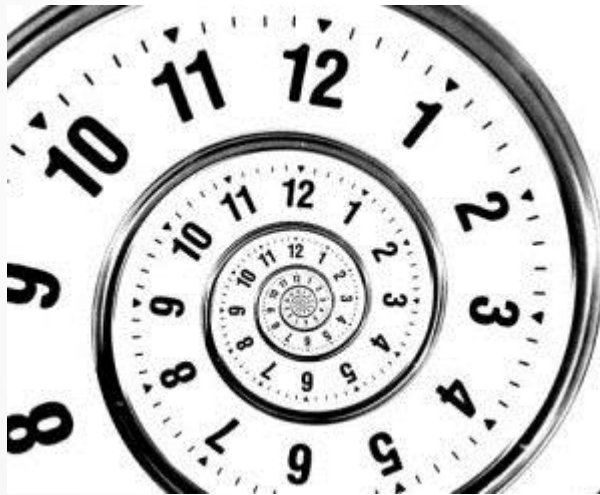
6 Relevant and appropriate studies

Results – The lucky six



- Decided to include all relevant research papers.
- Were actually amazed at what research was out there in this small specific area of interest.
- 4 were Randomised Control Trials ie high quality research studies.

Assessing Papers



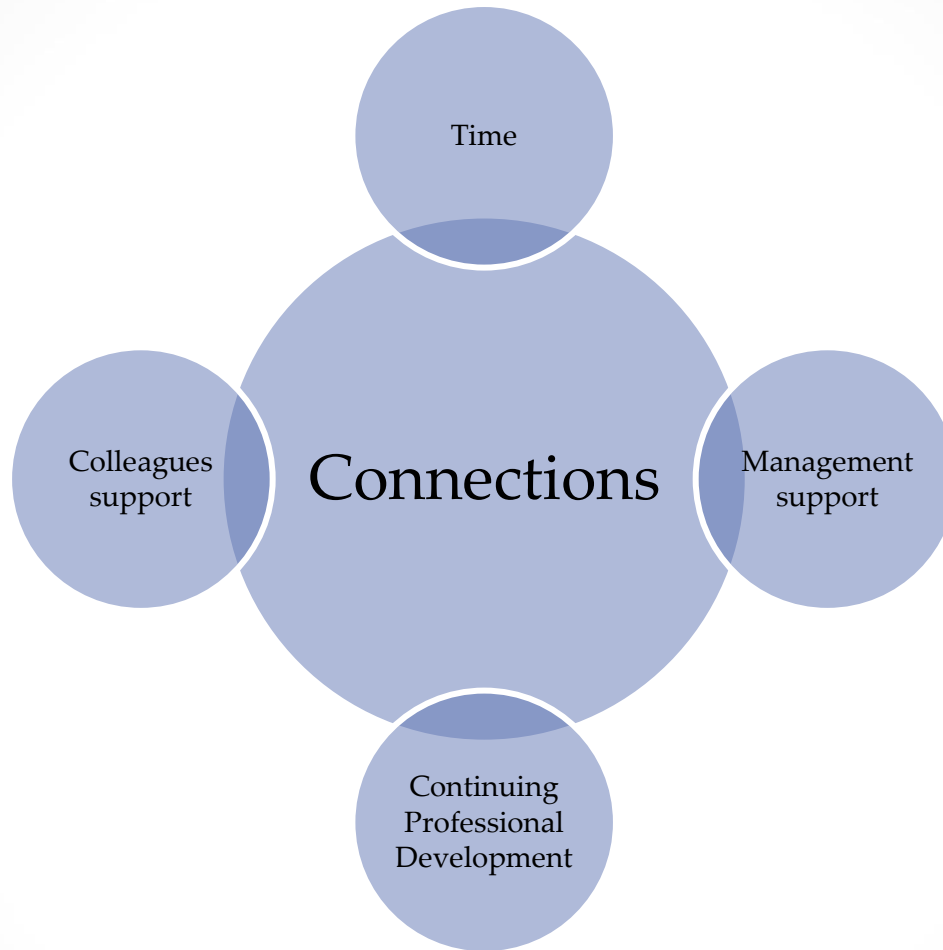
- WORK IN PROGRESS...

A long process

- Still reviewing the 6 papers AND writing up the review – will be a while before completed!
- Has been extremely hard doing this alongside work and my 5 hours ran out long ago SO work in my own time!
- Couldn't have done it alone - as a clinician have found it hard to get into that research world and mind set so Sarahjane's support has been invaluable.

What have I learnt?

Top Tips



What support is out there

- Research and Development team within your trust
- Trust Library – they will carry out literature search for you and help source journals
- ‘How to’ tutorials on your intranet
- Open Athens account
- Your College. RCSLT has a journal collection, research champion, critical appraisal tool
- Council for allied health professions research

Thanks for Listening

Any Questions?

**the
end**

