

The interaction between behaviour and speech and language difficulties: does intervention for one affect outcomes in the other?

What do we want to know?

We wanted to identify research which investigated the relationship between speech, language and communication difficulties (SLCD) and emotional and behavioural difficulties (EBD) in children of primary school age (5-12 years), as both are common causes of concern for parents and teachers of young children. We also wanted to identify research which investigated whether intervening within one domain had the potential to influence outcomes in the other.

Who wants to know and why?

Potential users of this review include researchers and practitioners who have regular contact with primary school aged children with SLCD or EBD. These include teachers, speech and language therapists, and those providing child and adolescent mental health services. It is also of direct relevance for policy-makers, parents and carers.

What did we find?

We identified 21 intervention studies for children with either SLCD or EBD which included both communication and behavioural outcomes. There was considerable variability in the profile of the children described and in both the types of intervention and the outcomes adopted. We grouped the studies under three broad intervention types: didactic, hybrid and pharmacological.

- Didactic interventions (8 studies) are those that use behavioural modification alone to improve communication skills on the one hand or behavioural skills on the other.
- Hybrid interventions (11 studies) are those that teach communication or behavioural skills within a range of contexts and are of more generic application than didactic interventions.

- Pharmacological interventions (2 studies) refer to interventions that employ drug therapy to improve communication and behaviour outcomes.

All studies included in our in-depth review reported evidence of positive effects of intervention on both communication and behavioural outcomes. However, all of the studies identified in this review were small scale and of a low weight of evidence, making it difficult to generalise their results or draw firm conclusions as to how children with SLCD and EBD should be managed.

What are the implications?

The overlap between SLCD and EBD should be accounted for in the development of both clinical and educational practice. This would be facilitated by a greater awareness amongst professionals and parents of the interaction between how a child communicates and the way they behave. In terms of research, more interventions need to be developed which address both domains, and this should be reflected in the outcomes used to evaluate those interventions. Much of the research to date has been 'clinical' in nature. It would be of considerable value to develop and evaluate interventions which are directly applicable to the educational context.

How did we get these results?

We looked for research on the relationship between behaviour and speech and language difficulties. We did this through keyword searches of bibliographic databases, and searches of websites and key journals. We then applied inclusion and exclusion criteria to build up a map of relevant studies. Additional criteria were applied to the studies in the map, which produced the 21 studies that were used to address the research question above.

Where to find further information

<http://eppi.ioe.ac.uk>

Where to find further information

For more information about the content of this review please contact:

Professor James Law

tel: +44 (0)131 474 0000

email: jlaw@qmu.ac.uk

For more information about the EPPI-Centre's systematic review programmes please contact:

Mark Newman

EPPI-Centre

Social Science Research Unit

Institute of Education, University of London

18 Woburn Square

London WC1H 0NR

United Kingdom

tel: +44 (0)20 7612 6575

fax: +44 (0)20 7612 6400

email: m.newman@ioe.ac.uk

The results of this systematic review are available in three formats:

SUMMARY

Explains the purpose of the review and the main messages from the research evidence

TECHNICAL REPORT

Includes the background, main findings, and full technical details of the review

DATABASES

Access to codings describing each research study included in the review

These can be downloaded or accessed at

<http://eppi.ioe.ac.uk/cms/Default.aspx?tabid=2461&language=en-US>

Report published by the EPPI-Centre in November 2009.

The EPPI-Centre's reference number for the report of this review is 1705 (Technical Report).

The full citation is:

TECHNICAL REPORT

Law J, Plunkett C (2009) The interaction between behaviour and speech and language difficulties: does intervention for one affect outcomes in the other? Technical report. In: *Research Evidence in Education Library*. London: EPPI-Centre, Social Science Research Unit, Institute of Education, University of London.

This document is available in a range of accessible formats including large print. Please contact the Institute of Education for assistance:

Tel: +44 (0)20 7947 9556 email: info@ioe.ac.uk