

Effectiveness of Interoceptive Programs to Improve Academic Self-Regulation and Reduce Behavioral Problems Among Children With Learning Disabilities

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Abstract

Background

Learning disabilities occur in very young children, yet they are usually not noticed until the child reaches school age. These issues can affect the child's ability to perform activities of daily living and their ability to learn including academic activities. Occupational therapy can assist with improving their ability to learn which will also help their performance at school.

Aims and objectives

The present study was designed to investigate the impact of interoceptive programs on improving academic self-regulation and reducing behavioral problems among children with learning disabilities. The objectives of the study were to determine a learning disability through the use of the Learning Disability Checklist. The Academic Self-Regulation Questionnaire for Learning Disability (ASRQ-A LD) was used to assess the degree of academic self-regulation, while the Behavior Rating Inventory for Executive Functioning-2 (BRIEF-2) was used to assess the degree of behavioral problems. The primary objective was to evaluate the efficacy of interoceptive programs to enhance academic self-regulation and lessen behavioral issues in the experimental group, as well as to find out the impact of conventional occupational therapy for children with learning disabilities in the control group.

Methodology

This was a quasi-experimental design with convenience sampling and selected samples ($n=50$), which were then split into two groups, an experimental group ($n=25$) and a control group ($n=25$), based on the inclusion and exclusion criteria. The experimental group received intervention based on interoception activities, while the control group received conventional occupational therapy. A pre-test and post-test were conducted to measure the changes. The study assessed 50 children in the range of 7 to 11 years, using an Initial Madras Dyslexia Association Checklist. Academic self-regulation was assessed using ASRQ-A LD. Behaviors were assessed using BRIEF-2. The duration of the study was six months, three sessions per week, lasting 45 minutes to an hour each. The statistical analysis was done with significance at a 1% alpha level using IBM SPSS version 29.0 (Armonk, NY: IBM Corp).

Results

The pre-test and post-test data were analyzed using the Wilcoxon signed-rank test and the Mann-Whitney test. The study found that the interoceptive program had an impact on academic self-regulation and behavioral problems among children with learning disabilities. The p -value of academic self-regulation was <0.001 , and the p -value of the behavior rating inventory was <0.001 , the alternate hypothesis was accepted. Thus, the results showed significant improvement in academic self-regulation and behavioral problems in the experimental group compared to the control group.

Conclusion

The results of the study showed that the interoceptive program helped children with learning disabilities improve their academic self-regulation and have fewer behavioral issues. Interoception can positively regulate their behavior. For this reason, the primary therapeutic approach for children with learning disabilities can be the implementation of interoceptive activities.

Categories: Pediatrics, Medical Education, Occupational Health

Keywords: behavioral problems, self-regulation, interoceptive activities, interoception, specific learning disability, learning disability

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Problems And Prospects In The Study Of Learning Disabilities

Dr. Khushboo Gupta



Problems And Prospects In The Study Of Learning Disabilities:

Problems and Prospects in the Study of Learning Disabilities Joseph K. Torgesen, 1976-03-01 *Problems and Prospects in the Study of Learning Disabilities* Joseph K. Torgesen, 1975 *Subtypes of Learning Disabilities* Lynne V. Feagans, Elizabeth J. Short, Lynne Vernon-Feagans, Lynn J. Meltzer, 2012-11-12 Although experts agree that various types of learning disabilities do exist few attempts have been made to classify learning disabled children into subtypes The editors of this collection feel that the lack of subcategorization has frustrated previous research efforts to obtain a generalizable body of knowledge in the field To meet this critical need for definitive information this book presents basic reviews and theoretical approaches used to subtype learning disabled children ranging from a behavior genetics approach to a dimensional approach It also demonstrates actual research methods utilizing theoretical approaches **International Review of Research in Mental Retardation** , 1983-02-18 *International Review of Research in Mental Retardation* **Complex Problem Solving** Robert J. Sternberg, Peter A. Frensch, 2014-01-14 Although complex problem solving has emerged as a field of psychology in its own right the literature is for the most part widely scattered and often so technical that it is inaccessible to non experts This unique book provides a comprehensive in depth and accessible introduction to the field of complex problem solving Chapter authors experts in their selected domains deliver systematic thought provoking analyses generally written from an information processing point of view Areas addressed include politics electronics and computers *Research Issues in Learning Disabilities* Sharon Vaughn, Candace S. Bos, 2012-12-06 In this chapter we described issues in conducting intervention research with students with learning disabilities on the secondary level We maintained that interventions should be well grounded in theories of learning as well as characterizations of learning disabilities Pressley Scruggs that they should first be conducted in a series of highly controlled laboratory like experiments to carefully assess the potential utility of the intervention and that if the intervention is successful in highly controlled settings it should then be evaluated in classroom applications We maintained that research designs should evolve as the research questions become more applied and that the results of laboratory research should be used to support the findings of classroom applications Finally we described several research designs that we have found useful in conducting classroom intervention research There is a great deal more to conducting intervention research of course than experimental or quasi experimental design Intervention strategies likely to be effective must be identified relevant literature must be reviewed experimental materials must be developed and cooperative schools teachers parents and students must be located Nevertheless inadequate research designs can invalidate the best and most successful efforts in all of these areas while effective and practical research designs can do much to document the best practices and advance our knowledge of effective interventions with students with learning disabilities References Brigham F J Scruggs T E Mastropieri M A 1992 *The ABCs of Learning Disabilities* Bernice Wong, Lorraine Graham, Maureen Hoskyn, Jeanette Berman, 2011-10-13 *The ABCs of Learning Disabilities* Second Edition discusses major

research findings on learning disabilities in children adolescents and adults in language memory social skills self regulation reading mathematics and writing with an additional chapter on assessment This concise primer is intended for use as an undergraduate introductory text to the field Written with an evenness of tone breadth and depth the conveys an engaging style meant to encourage the beginning student to identify the big picture and to be interested in conceptual issues as well as research findings Undergraduate level text 90% new material Concise introduction to field Covers current concepts like removing the IQ performance discrepancy formula in diagnosing learning disabilities New chapter on self regulation and learning disabilities Whole school approach to social skills intervention **Neuropsychological Rehabilitation** Jamuna

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