The Effectiveness of Computer-assisted Instruction in Vocabulary Learning

By: Wahdi, EVFA (Wahdi), Eliek Vradizza Feni Abdul[1]; Dzulkifli, MA (Dzulkifli, Mariam Adawiah)[1]

PROCEEDINGS 2018 INTERNATIONAL CONFERENCE ON INFORMATION AND COMMUNICATION TECHNOLOGY FOR THE MUSLIM WORLD (ICT4M)
Book Group Author(s): IEEE
Book Series: International Conference on Information and Communication Technology for the Muslim World
Pages: 219-226
DOI: 10.1109/ICT4M.2018.830122
Published: 2018
Document Type: Proceedings Paper

Conference
Conference: International Conference on Information and Communication Technology for the Muslim World (ICT4M)
Location: Kuala Lumpur, MALAYSIA
Date: JUL 23-25, 2018

Abstract
The present study aimed to examine the effectiveness of computer-assisted instruction (CAI) on vocabulary learning for children with Autism Spectrum Disorder (ASD) who are non-native English speakers. A lack of educational strategies may hinder the children from benefiting the most from their education. Previous literature has demonstrated that CAI can be effective in enhancing language development. However, research on the applicability of CAI in the Malaysian context in which majority are non-native English speakers is limited. An experiment was conducted on both participants, to determine the effects of CAI on receptive and expressive vocabulary learning. Potential explanations of these findings were discussed in this study. Implications, strengths, limitations, and recommendations for future research were also discussed.

Keywords
Author Keywords: computer-assisted instruction; autism spectrum disorder; children with autism; vocabulary learning; language; technology; computer-based intervention

Cited References

Use in Web of Science

This record is from: Web of Science Core Collection
- Conference Proceedings Citation Index-Science

Suggest a correction
If you would like to improve the quality of the data in this record, please suggest a correction.
1. Title: [not available]
   Group Author(s): American Psychiatric Association
   Diagnostic and statistical manual of mental disorders Published: 2013
   Times Cited: 30,108

2. The effects of computer assisted instruction on rural algebra I students
   By: Bennet, S. M.
   THESIS Published: 2012
   Master degree dissertation
   Publisher: Education, Northern Michigan University
   Times Cited: 1

3. Enhancing Vocal Imitations in Children with Autism Using the IBM Speech Viewer
   By: Berard-Otis, V.; Sriram, N.; Sapuan, S.
   Autism Volume: 3 Issue: 2 Pages: 131-147 Published: June 1999
   Times Cited: 20

4. Development and evaluation of a computer-animated tutor for vocabulary and language learning in children with autism
   By: Bosseler, A.; Massaro, DW
   JOURNAL OF AUTISM AND DEVELOPMENTAL DISORDERS Volume: 33 Issue: 6 Pages: 653-672 Published: DEC 2003
   Times Cited: 154

5. Using computer-assisted instruction and the nonverbal reading approach to teach word identification
   By: Coleman-Martin, M. B.; Heller, K. W.; Cihak, D. F.; et al.
   Focus on Autism and Other Developmental Disabilities Volume: 20 Pages: 80-90 Published: 2005
   Times Cited: 71

6. Title: [not available]
   By: Dasaro, A.
   Assessment of anxiety in children with autism spectrum disorders in the schools Published: 2012
   Online
   URL: http://scholarworks.niu.edu/cgi/viewcontent.cgi?
   Times Cited: 2

7. Moderators of stress in parents of children with autism
   By: Dunn, ME; Burbine, T; Bowers, CA; et al.
   COMMUNITY MENTAL HEALTH JOURNAL Volume: 37 Issue: 1 Pages: 39-52 Published: FEB 2001
   Times Cited: 264

8. A model for problem solving in discrete trial training for children with autism
   By: Ferraioli, S.; Hughes, C.; Smith, T.
   Journal of Early Intensive Behavioral Intervention Volume: 2 Pages: 224-246 Published: 2005
   Times Cited: 9

   By: Goldstein, H.
   JOURNAL OF AUTISM AND DEVELOPMENTAL DISORDERS Volume: 32 Issue: 5 Pages: 373-396 Published: OCT 2002
   Times Cited: 167

10. Vocabulary acquisition and verbal short-term memory: Computational and neural bases
    By: Gupta, P; MacWhinney, B
    BRAIN AND LANGUAGE Volume: 59 Issue: 2 Pages: 267-333 Published: SEP 1997
    Times Cited: 199

11. Title: [not available]
    By: Halpern, J.
    The spoken impact project: Using audio & visual feedback to impact vocalization in non-verbal children with autistic spectrum disorder Published: 2003
    Times Cited: 4

12. Interactive visual supports for children with autism
    Times Cited: 67