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data or review of empirical data, and lastly, if the article focused on a topic not

relevant for this study.

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Bimodal and Bilingual: Language Characteristics of ASL and English Users

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11. Scott, J.A. & Dostal, H.M. (2019, June 01). Language development and deaf/hard of hearing children. Education

Sciences, 9(2), 135. doi:https://doi.org/10.3390/educsci9020135

Search Terms Results Background & Purpose **Discussion & Conclusions Background: Discussion:** Understanding how language develops in children who are learning two Children This content review yields knowledge gathered on the consistency of the Bimodal languages can provide a better understanding of language development in term bimodal/bilingual when used to describe the language skills of Deaf Deat general. children within Deaf Education journals since 2000. There is an abundant amount of research regarding language skills of children • It was found that while all the articles consistently used the term who are deaf or hard of hearing (d/hh); however, it is unclear if researchers are bimodal/bilingualism to describe English and ASL as languages, there is Childrei using a similar definition when describing the characteristics of variability in the overall use of the term, with some articles not providing bimodal/bilingualism. an explicit operational definition within the text. Bimodal bilingualism is the use of both an oral language and a sign language, Research within this field of study is rapidly developing, which makes it which in the U.S. often includes the ability to perceive and produce both ever more important to establish an operational definition of American Sign Language (ASL) and spoken and/or written English. Binoda under American Sign Language bimodal/bilingualism. Thus, aiding in the reliability and validity of **Purpose:** various articles with similar research topics and designs. The purpose of this study was to examine if there is a consistent operational Children Deat Limitations: definition of bimodal bilingualism, specifically English and ASL within • Challenges arose when there was not a direct definition provided, which scholarly journals related to the field of Deaf Education. resulted in piecing together a definition from various parts of the article. Inconsistencies related to fluency of ASL/spoken English and what level Methods & Procedures of fluency one must possess to be classified as bimodal/bilingual. Methods: A lack of description of the term "modality" and how it relates to A content review was conducted on what is known about bimodal/bilingualism bimodal/bilingual. Inclusionary/Exclusionary Criteria in the discipline of Deaf Education Determining a specific term to refer to bimodal/bilingualism. There are Data was gathered from the CINAHL Complete Database, accessed through the various terms used in place of bimodal/bilingual, such as "bi/bi," University of Arkansas Library. "bilingual/bicultural," and "Deaf multilingual learners." Articles were retrieved from three journals: American Annals of the Deaf, Deafness and Education International, and Journal of Deaf Education and Deaf **Exclusionary Criteria Inclusionary Criteria** Studies. References Not focused on participants 0-21 The search terms used for each journal were as follows: 1) "Bilingual AND • Participants aged 0-21 · Articles not peer-reviewed 1. Allen, L.R. & Kelly, B.B. (2015, July 23). Child development and early learning. Retrieved from the National Center for Bilingualism", 2) "Spoken English AND American Sign Language", 3) · Peer-reviewed articles Articles published before 2000 Biotechnology Information website: https://www.ncbi.nlm.nih.gov/books/NBK310550/ · Lack of empirical data "Bilingual OR Bilingualism AND Deaf", 4) "Bilingual OR Bilingualism AND • Articles published after 2000 2. American Sign Language at Harvard. (n.d.). Deaf history timeline. Retrieved from Articles referring to Deaf AND Bimodal", 5) "Bilingual OR Bilingualism AND Bimodal." · Empirical evidence/data bimodal/bilingualism not referring 3. Aronoff, M., Meir, I., & Sandler, W. (2005). The paradox of sign language morphology. Language, 81(2), 301-344. · Bimodal/bilingualism referring **Procedures:** //doi.org/10.1353/lan.2005.0043 to ASL/English to ASL/English 4. Emmory, K., Borinstein, H. B., Thompson, R., & Gollan, T. H. (2008). Bimodal bilingualism. Bilingualism, 11(1), 43-Exclusionary and inclusionary criteria were developed to further narrow the Book reviews 61. doi:http://0-dx.doi.org.library.uark.edu/10.1017/S1366728907003203 search results. · Articles with participants who had 5. Evans, C., & Seifert, K. (2000). Fostering the Development of ESL/ASL Bilinguals. TESL Canada Journal, 18(1), 01-16. https://doi.org/10.18806/tesl.v18i1.896 additional disabilities present 6. Janzen, T., Shaffer, B., & Wilcox, S. (2011). Signed language pragmatics. Pragmatics in Practice (pp. 278-294). Obituaries Results doi:10.1075/hoph 9.18jan 7. Liddell, S.K., & Johnson, R.E. (1989). American sign language: t. Sign Language Studies 64, 195-277 /doi.org/10.1353/sls.1989.0027 **Results:** 8. Maller, S., Singleton, J., Supalla, S., & Wix, T. (1999). The development and psychometric properties of the American The final results yielded 338 articles within the three journals, with 19 of those sign language proficiency assessment (ASL-PA). Journal of Deaf Studies and Deaf Education, 4(4), 249-269. articles meeting the inclusionary criteria. i org/10 1093/deafed/4 4 249 doi.http 9. National Institute on Deafness and Other Communication Disorders. (2016, December 15). Quick statistics about 318 were excluded due to the following reasons: age groups not within our hearing. Retrieved from the National Institute on Deafness and Other Communication Disorders: criteria, languages were not spoken English and ASL, articles published before https://www.nidcd.nih.gov/health/statistics/quick-statistics-hearing 10. Sandler W. (2012). The phonological organization of sign languages. Language and linguistics compass, 6(3), 162-2000, participants were hearing, obituaries and book reviews, lack of empirical 182, https://doi.org/10.1002/lnc3.326

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