**SUBJECT: INFORMATION MANAGEMENT IN SPEECH, LANGUAGE AND HEARING**

**ASSIGNMENT**

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1. **SUMMARY OF RESEARCH INTEREST**

My research interest, in broad is concerned with language aspects, to understand why some children have specific language learning difficulty (known as Specific Language Impairment). I am interested in studying the learning mechanisms, which underlie language in these children from the procedural declarative model. Procedural declarative model is mainly concerned with the memory aspects in our brain. In normal population, there is an independent functioning of the procedural declarative system, whereas in disordered population (Specific Language Impairment), there is an imbalance within the system, as procedural part is impaired in them, because of which sometimes, the declarative part of the system tries to compensate for the loss in balance. To study the onset and extent of declarative compensation in memory systems is of interest. I am also interested in knowing about the learning process that children with Specific Language Impairment (SLI) undergo and the parameters that differ from normal learning aspects are. If there is any significant result, the conclusions can be applied to treatment aspects, which can be very useful in terms of goal selection and therapy activity modifications. The ultimate clinical implication of this idea is towards language structure-specific intervention strategy for efficient and long lasting treatment effects for SLI population.

**INFORMATION SOURCES PERTANING TO THE AREA OF RESEARCH**

|  |  |  |  |
| --- | --- | --- | --- |
| S.No | Name of the journal | Publisher | Available issues with volume no. & year |
| 1 | Brain and Language | Elsevier | Volume no 1 (1974) to volume no 170 (2017) |
| 2 | International Journal of Language and Communication disorders | John Wiley & Sons | Volume no 1 (1966) to Volume no 52 (2017) |
| 3 | International Journal of Speech Language Pathology | Taylor & Francis | Volume no 10 (2008) to Volume no 19 (2017)  (**Note**: The name of the journal was changed in the middle, so the volume number was considered from number 10, with the change in name, as information was provided on wesite) |
| 4 | Journal of Cognition and development | Taylor & Francis | Volume no 1 (2000) to Volume 18 (2017) |
| 5 | Journal of Cognitive Neuroscience | MIT Press | Volume no 1 (1989) to Volume no 29 (2017) |

1. **ANY 5 SCIENTIFIC JOURNALS AMONG AIISH SUBSCRIPTIONS**
2. **ANY 10 BOOKS AVAILABLE AT AIISH L & IC**

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| --- | --- | --- | --- | --- | --- |
| S.No | Name of the book | Author of the book | Year | Publisher | Accession number |
| 1 | Cognitive neuroscience – The biology of the mind | Gazzaniga, Ivry and Mangun | 2014 | Norton publishers | 20119 |
| 2 | Cognition, brain and consciousness – Introduction to cognitive neuroscience  (2nd edition) | Bernard.J.Baars and Nicole.M.Gage | 2010 | Elsevier | 20118 |
| 3 | Neurobiology of language | Gregory Hickok and Steven.L.Small | 2016 | Elsevier | 21218 |
| 4 | The Oxford handbook of cognitive neuroscience  (volume 1) | Kevin.N.Ochsner and Stephen.M.Kosslyn | 2014 | Oxford university press | 20865 |
| 5 | The neurobiology of cognition and behaviour | John hart | 2016 | Oxford university press | 21222 |
| 6 | The cerebellum: learning movement, language and social skills | Dianne M Broussard | 2014 | John Wiley & Sons | 19639 |
| 7 | The neurology of consciousness – Cognitive neuroscience and neuropathology  (2nd edition) | Steven laureys, Olivia gosseries and Giulio tononi | 2016 | Elsevier | 21219 |
| 8 | The cognitive neuroscience of human communication | Vesna Mildner | 2008 | Taylor & Francis group | 16009 |
| 9 | Human memory- Structures and images | Mary.B.Howes | 2007 | Sage publications | 15373 |
| 10 | Fundamentals of cognitive psychology | Ronald.T.Kellogg | 2007 | Sage publications | 15596 |

1. **ANY 5 PG DISSERTATIONS**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **S.No** | **Title** | **Author** | **Guide** | **Year** | **Dissertation**  **number** |
| 1 | Assessment protocol for children with Specific Language Impairment | Binay Kant. C | Dr.Shyamala.K.C. | 2004 | 499 |
| 2 | Sentence recognition in bilingual children with and without Specific Language Impairment | Darshan.H.S. | Dr.Shyamala.K.C. | 2016 | 1155 |
| 3 | Speech Language Impairment – Development of morpho-syntax in Kannada | Prasitha | Dr.Prema.K.S. | 2008 | 643 |
| 4 | A Preliminary study of development of early literacy skills in bilingual children with Specific Language Impairment | Sethulakshmi.P.B. | Dr.Shyamala.K.C. | 2013 | 979 |
| 5 | Rapid Automatized naming and reading in 5-7 year old Malayalam speaking children with Specific Language Impairment | Haritha.S.Mohan | Dr.Jayashree.C.Shanbal | 2016 | 1158 |

1. **ANY 2 PROJECTS**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **S.No** | **Title** | **Investigators** | **Year** | **Project**  **number** |
| **1** | Development of assessment batteries for bilingual Kannada-English and Malayalam-English children with Specific Language Impairment | Shyamala.K.C.  Shiwani Tiwari and Gopee Krishnan | 2011 | DP61 |
| **2** | Nature of non-explicit declarative and procedural memory systems in Specific Language Impairment – Examining the post scripts of Procedural Deficit Hypothesis | Kuppuraj. S and Prema.K.S. | 2014-2016 | DP120 |

1. **CRITICAL EVALUATION OF INFORMATION SOURCES PERTAINING TO COMMUNICATION DISORDERS**

**Critical evaluation** involves **pointing out any differences** which are particularly significant and verifying as to what extent a statement or findings within a piece of research are true, or to what extent you agree with them. It **involves finding the advantages or merits and issues related to it.**

1. **STATUS OF DISABILITY IN INDIA – 2012**

**Merits**

* It is **given by the Rehabilitation Council of India (2012)** (Department of disability affairs, Ministry of social justice & empowerment), which **makes it a reliable source of information.**
* It is **published every 5 years, with collation of information throughout those 5 years**, put in a public domain so that **every citizen can understand the material**.
* It **has information compiled from several journals, prevalence studies, project reports**, etc and **hence** it is a **secondary source of information**.
* It has **sufficient information on several disabilities** such as Hearing impairment, Visual impairment, locomotor disability, mental retardation, autism, cerebral palsy, multiple disabilities,etc.,
* **Contains state-wise consensus of both rural & urban areas** as to the population of disabled persons.
* **Gives a holistic view on disability & its management.** Eg: Definition of condition, intervention, education, vocational training & employment, human resource development, technology & Research & Development (R&D).Thus, the **information content is rich with respect to different aspects of disability conditions.**
* When **compared to the earlier versions** (2000, 2003 & 2007), focussed mainly on individual disabilities, whereas this **2012 version gives an overview on disability in the country through the introductory chapters covering different aspects of the disabilities including legislations & policies.**

**Demerit/suggestion**

* Though the 2012 version had documented progress, and presented a better picture compared to previous versions, there are certain areas less focussed or the source of information is very less pertaining to those aspects.
* **Information about human resource development could have been more** as the field undergoes drastic development with each day.
* **Prevalence data for disabilities** such as **Autism, Cerebral palsy, specific learning disabilities & deaf-blindness** are **still not available clearly even in 2012 version**.
* **Unable to have a clear estimate of number of persons with disabilities**, which indicates the **need for a strong research base**.

1. **MIT Encyclopaedia of Communication Disorders**

**Merits**

* **Edited by Raymond.D.Kent** and it is a **standard reference for both research and clinical purposes.**
* The material has **200 detailed sections**, including the **wide range of communication and speech disorders in children and adults**, from **basic science to clinical diagnosis and treatment aspects of disorders.**
* It is divided into **four sections** that project the main categories within the field of speech-language pathology and audiology: **Voice, Speech, Language, and Hearing**. **Within each division**, the information is organized into **three subsections: Basic Science, Disorders, and Clinical Management**.
* The **treatment approach** to communication disorders is **different for each individual**, because of which many topics in the book has **unique notes on each interesting cases.**
* It comprises of information on cochlear implants for children and adults, pitch perception, tinnitus, alaryngeal voice and speech rehabilitation, neural mechanisms of vocalization, holistic voice therapy techniques, computer-based approaches to children’s speech and language disorders, neurogenic mutism, regional dialect, agrammatism, global aphasia, and psychosocial problems associated with communicative disorders.

**Suggestion/demerit**:

As it includes a lot of sub sections of information, including more representative form of data such as tables, flowcharts, pie charts or bar graphs, would improve the understanding of the information in an easy way and the information on recent advancements in treating communication disorders would be useful if it is included in detail.

1. **PUBLISHERS OF AIISH SUBSCRIBED E-JOURNALS**

|  |  |  |  |
| --- | --- | --- | --- |
| **S. No.** | **Title of the Journal** | **Name of the publisher** | **Year** |
| 1. | Acta Oto-laryngologica | Taylor & Francis Online | 1918 |
| 2. | Advances in Autism | Emerald Publishing | 2016 |
| 3. | Aging, Neuropsychology and Cognition | Taylor & Francis Online | 1997 |
| 4. | American Annals of Deaf | Gallaudet University Press | 1980 |
| 5. | American Journal of Audiology | ASHA wire | 1991 |
| 6. | America Journal of Speech Language Pathology | ASHA wire | 1991 |
| 7. | Annals of Dyslexia | Springer Link | 1997 |
| 8. | Aphasiology | Taylor & Francis Online | 1997 |
| 9. | Applied Acoustics | Elsevier - Science Direct | 2017 |
| 10. | Applied Psycholinguistics | Cambridge Core University Press | 1999 |
| 11. | Archives of Otolaryngology Head and Neck Surgery | AMA Publications | 1998 |
| 12. | Audiology and Neuro-Otology | Karger AG Publishers | 1996 |
| 13. | Augmentative and Alternative Communication | Taylor & Francis Online | 1985 |
| 14. | Autism: The International Journal of Research and Practice | SAGE Publications | 1999 |
| 15. | Autism Research | John Wiley & Sons | 2010 |
| 16. | Bilingualism: Language and Cognition | Cambridge Core University Press | 1998 |
| 17. | Brain and Language | Elsevier - Science Direct | 1974 |
| 18. | Canadian Journal of Linguistics | Cambridge Core University Press | 2017 |
| 19. | Child Language Teaching and Therapy | SAGE Publications | 1997 |
| 20. | Cleft and Craniofacial Journal | American Cleft Palate – Craniofacial Association | 1990 |
| 21. | Clinical Linguistics and Phonetics | Taylor & Francis Online | 1987 |
| 22. | Cochlear Implants International | Taylor & Francis Online | 2000 |
| 23. | Communication Disorders Quarterly | SAGE Publications | 1998 |
| 24. | Cortex | Elsevier - Science Direct | 2007 |
| 25. | Deafness and Education | Taylor & Francis Online | 1999 |
| 26. | Dementia | SAGE Publications | 2002 |
| 27. | Dyslexia | John Wiley & Sons | 2010 |
| 28. | Dysphagia | Springer Link | 1997 |
| 29. | Ear and Hearing | Lippincott Williams & Wilkins, Ovid – Wolters Kluwer | 1980 |
| 30. | Evidence Based Communication Assessment and Intervention | Taylor & Francis Online | 2007 |
| 31. | Exceptional Children | SAGE Publications | 2001 |
| 32. | Focus on Autism and Other Developmental Disabilities | SAGE Publications | 1999 |
| 33. | Folia Phoniatrica | Karger AG Publishers | 1949 |
| 34. | Gesture | Ingenta Connect | 2011 |
| 35. | Hearing Balance and Communication (Audiological Medicine) | Taylor & Francis Online | 1997 |
| 36. | Hearing Journal | Lippincott Williams & Wilkins, Ovid – Wolters Kluwer | 1994 |
| 37. | Hearing Research | Elsevier - Science Direct | 2010 |
| 38. | International Journal of Applied Linguistics | John Wiley & Sons | 2016 |
| 39. | International Journal of Audiology | Taylor & Francis Online | 1962 |
| 40. | International Journal of Bilingual Education and Bilingualism | Taylor & Francis Online | 1998 |
| 41. | International Journal of Bilingualism | SAGE Publications | 1997 |
| 42. | International Journal of Language and Communication Disorders | John Wiley & Sons | 1997 |
| 43. | International Journal of Pediatric Otorhinolaryngology | Elsevier - Science Direct | 2007 |
| 44. | International Journal of Speech Language and the Law (formerly Forensic Linguistics) | Equinox Publishing Limited | 1998 |
| 45. | International Journal of Speech Language Pathology | Taylor & Francis Online | 1997 |
| 46. | International Journal of Speech Technology | Springer Link | 1989 |
| 47. | Journal of Applied Research in Intellectual Disabilities | John Wiley & Sons | 2010 |
| 48. | Journal of Autism and Developmental Disorders | Springer Link | 1997 |
| 49. | Journal of Child Language | Cambridge Core University Press | 1997 |
| 50. | Journal of Child Psychology and Psychiatry | John Wiley & Sons | 2010 |
| 51. | Journal of Cleft Lip Palate and Craniofacial Anomalies | Wolters Kluwer - Medknow | 2016 |
| 52. | Journal of Cognition and Development | Taylor & Francis Online | 2000 |
| 53. | Journal of Cognitive Neuroscience | Massachusetts Institute of Technology Press | 1989 |
| 54. | Journal of Communication Disorders | Elsevier - Science Direct | 1967 |
| 55. | Journal of Early Intervention | SAGE Publications | 1999 |
| 56. | Journal of Fluency Disorders | Elsevier - Science Direct | 1974 |
| 57. | Journal of Indian Academy of Applied Psychology | Indian Academy of Applied Psychology | 2015 |
| 58. | Journal of Indian Speech and Hearing Association | Wolters Kluwer - Medknow | 2016 |
| 59. | Journal of Intellectual and Developmental Disability | Taylor & Francis Online | 1976 |
| 60. | Journal of Interactional Research in Communication Disorders | Equinox Publishing Limited | 2010 |
| 61. | Journal of Laryngology and Otology | Cambridge Core University Press | 1887 |
| 62. | Journal of Laryngology and Voice | Wolters Kluwer - Medknow | 2017 |
| 63. | Journal of Learning Disabilities | SAGE Publications | 1999 |
| 64. | Journal of Memory and Language | Elsevier - Science Direct | 2007 |
| 65. | Journal of Neurolinguistics | Elsevier - Science Direct | 1985 |
| 66. | Journal of Phonetics | Elsevier - Science Direct | 1995 |
| 67. | Journal of Pragmatics | Elsevier - Science Direct | 2007 |
| 68. | Journal of Psycholinguistic Research | Springer Link | 1997 |
| 69. | Journal of Special Education | SAGE Publications | 1999 |
| 70. | Journal of Speech Language and Hearing | ASHA wire | 1958 |
| 71. | Journal of the Acoustical Society of America | AIP Publishing LLC | 1930 |
| 72. | Journal of the American Academy of Audiology | Ingenta Connect | 2002 |
| 73. | Journal of the International Phonetic Association | Cambridge Core University Press | 2001 |
| 74. | Journal of Vestibular Research | Meta Press | 2000 |
| 75. | Journal of Voice | Elsevier - Science Direct | 1987 |
| 76. | Laboratory Phonology | De Gruyter Mouton | 2010 |
| 77. | Language Acquisition | Taylor & Francis Online | 2014 |
| 78. | Language and Cognition and Neuroscience (formerly Language and Cognitive Processes) | Taylor & Francis Online | 1997 |
| 79. | Language and Communication | Elsevier - Science Direct | 2007 |
| 80. | Language and Speech | SAGE Publications | 1999 |
| 81. | Language Learning | John Wiley & Sons | 2006 |
| 82. | Language Sciences | Elsevier - Science Direct | 2007 |
| 83. | Language Speech and Hearing Services in Schools | ASHA wire | 1970 |
| 84. | Laryngoscope | ASHA wire | 1997 |
| 85. | Learning Disability in Quarterly | SAGE Publications | 2010 |
| 86. | Learning Disabilities Research & Practice | John Wiley & Sons | 2000 |
| 87. | Logopedics Phoniatrics Vocology | Taylor & Francis Online | 1991 |
| 88. | Noise & Health | Wolters Kluwer - Medknow | 2015 |
| 89. | Otolaryngologic Clinics of North America | Elsevier - Science Direct | 1998 |
| 90. | Otology and Neurotology | Lippincott Williams & Wilkins, Ovid – Wolters Kluwer | 2001 |
| 91. | Perspectives of the ASHA Special Interest Groups | ASHA wire | 2016 |
| 92. | Phonology | Cambridge Core University Press | 1997 |
| 93. | Reading and Writing | Springer Link | 1997 |
| 94. | Research in Autism Spectrum Disorders | Elsevier - Science Direct | 2007 |
| 95. | Seminars in Hearing | Georg Thieme Verlag KG | 1980 |
| 96. | Seminars in Speech and Language | Georg Thieme Verlag KG | 1984 |
| 97. | Sign Language and Linguistics | Ingenta Connect | 2016 |
| 98. | Speech Communication | Elsevier - Science Direct | 1982 |
| 99. | Speech, Language and Hearing | Taylor & Francis Online | 1996 |
| 100. | The Analysis of Verbal Behavior | Springer Link | 2014 |
| 101. | Topics in Language Disorders | Lippincott Williams & Wilkins, Ovid – Wolters Kluwer | 2001 |
| 102. | Trends in Cognitive Sciences | Elsevier - Science Direct | 2016 |

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