**INFLUENCE OF POLYCYSTC OVERIAN SYNDROME (PCOD) ON CLINICAL MEASSURES OF VOICE**

[Polycystic ovary syndrome](http://www.webmd.com/women/tc/polycystic-ovary-syndrome-pcos-topic-overview)  is a problem in which a woman's [hormones](http://www.webmd.com/hw-popup/hormone) are out of balance. It can cause problems with menustration and make it difficult to [get pregnant](http://www.webmd.com/baby/guide/getting-started-on-getting-pregnant).

PCOD also may cause unwanted changes in the way you look. If it isn't treated, over time it can lead to serious health problems, such as [diabetes](http://www.webmd.com/diabetes/default.htm) and [heart disease](http://www.webmd.com/heart-disease/default.htm). In PCOD the women’ ovary will be filled with small cysts and it will lead to hormonal imbalance.

.The female voice evolves from childhood to menopause, under the varied influences of estrogens, progesterone, and testosterone. These hormones are the dominant factor in determining voice changes throughout life. Studies shows that in females with PCOD the amount of estrogen will be less while the testosterone, which is a male hormone, is relatively high.

The harmonics of voice dependent on hormones. In the female, the impact of estrogens at puberty, in concert with progesterone, produces the characteristics of the female voice, with a fundamental frequency one third lower than that of a child. In the male, androgens released at puberty are responsible for the male vocal frequency, an octave lower than that of a child.

The present study aims at identifying voice parameter changes in females due to hormonal changes resulted from PCOD.

**5 scientific journals from among AIISH subscriptions**

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|  | **Name of the Journal** | **Publisher** | **Volume No.** | **Issue No.** | **Year** |
| **1** | American journal of Speech Language Pathology | ASHA | **25** | **10** | **2016** |
| **2** | Journal of voice | Elsevier. | **13** | **3** | **1999** |
| **3** | Journal of communication disorders | Elsevier. | **40** | **5** | **2007** |
| **4** | Language and communication | Elsevier | **6** | **1-2** | **1996** |
| **5** |  | Taylor & Francis online | **6** | **2** | **2001** |

**10 books available in AIISH LIBRARY & INFORMATION CENTRE**

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|  |  **Name of the Book** |  **Author** |  **Year** | **Publisher** | **Accession No.** |
| 1 | Professional voice; the science and art of clinical care. | Sataloff | 2005 | Singular publishing group | 13492 |
| 2 | Voice and communication therapy for the transgender client | Adler, Hirsch S | 2006 | Plural publishing | 15566 |
| 3 | Hormones and human voice | Brodnitz | 1971 |  |  |
| 4 | Voice and it’s disorders |  | 1964 | A.I.T.B.S Publishers and distributors | 1645 |
| 5 | Acoustic analysis of voice in normals | Margaret C.L Greene | 2008 | Mysore university | 15919 |
| 6 | Test of voice, speech and Language. | Myra Kersner |  - | Whurr publishers Ltd. | 10766 |
| 7 | Clinical measures of voice and speech | Baken R.& Orlikoff | 2007 | Singular publication |  |
| 8 | Understanding voice problem: a physiological perspective for diagnosis and treatment. | Colton R H, Casper J K. | 2011 | Lippincott Williams& Wilkins |  |
| 9 | Text book of voice disorders | Merati A.L& Bielamowicz | 2007 | Plural publishing |  |
| 10 | Voice science  | Martin,S& Darnely L | 2004 | Whurr publishers |  |

 **PG DISSERTATIONS**

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| --- | --- | --- | --- | --- | --- |
|  | Name/Title of the report | Author | Guide | Year | Accession Number |
| 1 | **Acoustic Parameters of Normal Voice** | **Vanaja C.S** | Nataraja, NP | 1986 | **158** |
| 2 | **Fundamental Frequency Changes During Puberty in Indian Population** | **Savitha V.H** | Jayaram, M | 2003 | **489** |
| 3 | **Factors In Normal and Abnormal Voice** | **Preethi** | Nataraja, NP | 1998 | **372** |
| 4 | **Influence of Menstrual Cycle on Clinical Measures of Voice: A Comparison of Singers and Non Singers** | **Regishia A** | Yeshoda, K | 2004 | **505** |
| 5 | **Voice Change Following Hormonal Treatment in Patient with Endometriosis** | **Gopi Shankar, R.** | Pushpavathi, M. | 2003 | **475** |

 ARF PROJECT

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|  | Name/Title of the report | Author | Guide | Year | Accession Number |
| 1 | Development of audio video databa base for communication disorders: assessment of voice disorders | Gopi Sankar. | NA | 2010-2011 | DP 41 |
| 2 | Evolution of Voice in Species AIISH Research Fund Project | Savithri, SR;Jayaram, M | NA | 2005-06 | DP 07 |

 2) **A CRITICAL BOOK REVIEW**

 STATUS OF DISABILITY IN INDIA-2012

 (Publisher: Rehabilitation council of India-RCI)

In earlier disability was considered as a shame or punishment for sins in an earlier life. But today persons with disability are finding places of importance in the country in all human endeavour.

Status of disability in India is a publication of Rehabilitation Council of India (RCI), which attempts to collate information on disability and to put it in the public domain so that person with disability and their care takers are able to ascertain the current situation on Disability in India. This document is published by RCI approximately every five years.

In this edition, there are chapters which includes introduction- which includes the historical, philosophical and sociological perspective of disability, introduction to the various disabilities, policies and legislation, the magnitude of disability in India, agencies and institutions and issues that concern persons with disabilities, how technology impacts persons with disabilities and how we need to take advantage of technology to make life better for persons with disability in the country. The later chapters tell information about status of individual disabilities. The conclusion chapter summarises what governmental and non governmental agencies, persons with disabilities and their stakeholders need to do to take disability issues forward and to facilitate the implementation of Government schemes and policies.

This book give an insight to the reader in to the status of each disability in the country as it exists today. Ever since, care and consideration for the sick, elderly and the disabled has been part of the Indian culture and tradition. From the first chapter of this book the reader is getting the over view of how formal education has started for children with disability and how the attitude changed from charity to ‘rights’ and how the medical model has been changed to developmental and sociological model.

Detailed information on current status of different disabilities including visual impairment, leprosy cured, hearing impairment, locomotor disability, mental retardation, mental illness, autism, cerebral palsy, multiple disabilities, learning disabilities and the causes these disabilities are included in the first chapter.

 The second chapter covers, the policies and laws that govern the disabilities. It covers in brief the rehabilitation council of India act, 1992(RCI), National Trust Act, 1999, The Mental Health Act, 1987 and Right to Education act, 2009. Also, in accordance with the Census report of 2001 and the National Sample Survey the magnitude of disability is being 2.2% of the population.

Much more improvement has been happened in the last decade. But, the drawback of the data is, it lacks the information from the 2011 Census Report of India.

The third chapter highlights the current trends and development in the status of disability. Role of prevention and early intervention, community based rehabilitation, assistive technology and efforts of RCI are discussed here.

The later chapters provide more detailed information on disability specific issues and developments. The fact is that the number of persons with disabilities in the country is not accurately identified which leads to many issues.

There are few areas of disability such as the role of qualified professionals and the issues faced by the professionals in the field of disability management has to be highlighted in the upcoming edition.

This document will be useful to persons with disability, institutions working for them and government and non government institutions to make them aware of the various facets of disability and what needs to be done to make the world a happier place for persons with disability.

 **A CRITICAL BOOK REVIEW**

ENCYCLOPEDIA OF COMMUNICATION DISORDERS.

 (Author: Raymond D Kent.)

Encyclopedia of communication disorder is a comprehensive book that presents essential information on communication sciences and disorders that affect the production and comprehension of spoken language and include especially disorders of speech production and perception, language expression, comprehension, voice and hearing. This book is organized in to the four broad categories of voice, speech, language and hearing and these represents the spectrum of topics fall in communication disorders.

It can be used as the standard reference in this field for both research and clinical use. It offers almost 200 detailed entries, covering the entire range of communication and speech disorders in children and adults, from basic science to clinical diagnosis. It is divided into four sections that reflect the standard categories within the field (also known as speech-language pathology and audiology): Voice, Speech, Language, and Hearing. Within each category, entries are organized into three subsections: Basic Science, Disorders, and Clinical Management. Basic Science includes relevant information on normal anatomy and physiology, physics, psychology and psychophysics, and linguistics; this provides a scientific foundation for entries in the other subsections.

The entries that appear under Disorders offer information on the definition and characterization of specific disorders, and tools for their identification and assessment. The Clinical Management subsection describes appropriate interventions, including behavioral, pharmacological, surgical, and prosthetic. Because the approach to communication disorders can be quite different for children and adults, many topics include separate entries reflecting this. Although some disorders that are first diagnosed in childhood may persist in some form throughout adulthood, many disorders can have an onset in either childhood or adulthood, and the timing of onset can have many implications for both assessment and intervention. Topics covered in ECD include 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

3)  **Name the publishers of the AIISH subscribed e-journals journals**

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| --- | --- | --- | --- |
| **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 |

Submitted by; Shilpa Abraham .

Submitted to; Dr.Shijith Kumar.