Research Methodology

Aim

- To Study Developmental Delay in Children in order to assess Etiological Factor (Hetu) with Ayurvedic Perspective.

Material & Methodology

Material:

- Paediatric Patients suffering from Developmental delay.
- Questionnaire for Children suffering from Developmental delay.

Methodology:

- Study design: Survey type of study
- Study Type: Clinical observational Retrospective type.
- Sampling:
  - Sample size – Optimum Sample was calculated by using the formula with approximation for large population which came out as 228. Ultimately data were collected for 256 children (out of 289 children) who gave consent to participate in the study.
  - Sample collection - Stratified Open Sampling.
  - Stratification: (Minimum required 76 Patients in each group)
    - Age Group Birth to 2 years – 86 patients
    - Age Group 2 to 4 years – 82 patients
    - Age Group 4 to 6 years – 88 Patients

Inclusion Criteria:

- Children suffering from Neurological Developmental delay in any of Sub group; motor, fine motor, Language and social Development.
- Developmental assessment was done with Denver Developmental screening test (2nd edition) (Denver ll)
- Age Eligible: Birth to 6 years.
- Gender – Either
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Exclusion criteria:
- Children having Progressive Encephalopathy.
- The respondents who didn’t give consent, or whose mothers were not available to give history or who were adopted children were excluded from the study, since perinatal details were not available.

Observation:
- Questionnaire (Survey Sheet) was prepared on the basis of different hetu described in Ayurvedic Samhita; for eg. Hetu of ‘Vikruta santan utpati’ such as Beeja, Atma-karma, Aashya, Kaal, Matru Aahar- Vihar, were taken into consideration. Similarly other such references from Ayurvedic Texts were utilized to prepare Questionnaire.
- The study was conducted to explore the conditions encountered during pre natal, antenatal & post natal period by mother & child, which probably led to Developmental Delay.
- Data were collected by face-to-face interview of the respondents on a predesigned questionnaire.
- Mothers were the respondents.
- Records of children were also referred for data including birth details & other investigations.

Data analysis:
- Chi square test of association was applied on the data collected.

Place of Work:
- Shri J.G.C.H. society’s Ayurvedic Medical College, Ghataprabha.
- Help from following Medical institute & Centres for Development of children were also taken for collection of data.
- Dr. D. Y. Patil School of Physiotherapy – Neurology department; Nerul Navi Mumbai.
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- Education & Training centre for PWDs, Vashi, Navi Mumbai
- ADAPT’s National Resource centre for Inclusion (NRCI), Bandra
- Sunshine centre, Mankhurd
- Aakansha Rehabilitation centre, Thane
- National Society for Equal Opportunities For Handicapped India (NASEOH India) Chembur.
- Kini’s nursing home, Mulund.
- Pooja Nursing home, Mulund
- Shree Physiotherapy clinic, Mulund
- Pankha Pediatric Therapy centre, Mulund.