

## PAEDIATRICS

<b>Topics</b>	
<b>Observational (Descriptive)</b>	
1.	What is the neuro behavioural profile of Autism children and response to standard of care intervention?
2.	Profiling of sleep patterns in various subtypes of cerebral palsy and its correlation with clinical severity.
3.	Profiling of sleep patterns in spinal muscular atrophy and its correlation with pulmonary function tests and motor functions.
4.	What is the prevalence of metabolic syndrome and insulin resistance in adolescents with Type 1 diabetes?
5.	To estimate the burden of congenital defects using Rashtriya Bal Swasthya Karyakram protocol - congenital deafness, Retinopathy of prematurity, Congenital Talipes Equino Varus, Trisomy.
6.	Profiling of various cerebral visual impairments in school going children.
7.	What is the prevalence and risk factors for failure to thrive in cerebral palsy?
8.	What are the various monitoring indications for the use of high-end antibiotics in Paediatric Intensive Care Unit setup?
9.	Identification of preventable/modifiable factors in hospital deaths by audit.
10.	What is the prevalence and risk factors for Acute Kidney injury in Neonatal/Paediatric Intensive Care Unit?
11.	What is the prevalence and causes of pediatric hypertension/obesity in school going children.
<b>Observational (Analytic)</b>	
12.	What are the clinical and laboratory parameters which can predict bronchiolitis in children with WHO defined pneumonia in children below 2 years of age.
13.	What are the effects of Kangaroo Mother Care on neurocognitive development of low birth weight neonates at 2 years of age.
14.	What is the role of vitamin d and calcium supplementation in severe acute malnutrition?

15.	What are the associations of food habits, screen time and electronic advertising with overweight and obesity in Indian adolescents?
16.	What is the role of probiotics in Intractable Epilepsy and to study gut microbiome in a subset?
17.	What is the microbiologic profile and antimicrobial susceptibility pattern in children with suspected (community acquired) blood stream infection (sepsis)?
18.	What is the microbiologic profile and burden of viruses in children with community acquired pneumonia?
19.	What is the difference in body composition of infants born small for gestational age versus those born appropriate for gestational age?
20.	How does body composition of children change on recovery from severe acute malnutrition as compared to baseline evaluation during malnourished state; how does it differ from age and gender matched well-nourished children?
21.	What is the recovery time from adrenal suppression in patients who received long term gluco-corticoid therapy?
22.	How do various methods of bone age assessment compare with gold standard method in Indian children of normal and short stature?
23.	What is the optimum dose and frequency of vitamin D supplementation in healthy adolescents?
24.	What are the different types of outcomes (define outcome) of late-onset neonatal sepsis: a prospective observational study.
25.	What are the risk factors for Intra-uterine Growth Restriction: A Case-Control Study.
26.	Comparison of Transcutaneous Bilirubin with Serum Bilirubin in Neonatal Hyperbilirubinemia: A Prospective Observational Study.
27.	What are the various etiological, clinical and neurological outcome in acute encephalitic syndrome in Indian children?
28.	To assess the proportion of dysfunctional eating disorders in children with functional constipation/ and its impact on growth.

29.	To study the long-term clinical and electrophysiological outcomes of paediatric neuro-cysticercosis (NCC) after standard treatment.
30.	To study the out-of pocket expenditure in children with chronic systemic diseases requiring long-term medical therapy- Type 1 diabetes and chronic kidney diseases.
31.	To estimate the severity and duration of hypogammaglobulinemia after rituximab use in-Nephrotic syndrome/ paediatric hematological disorders.
32.	To study the factors determining neurological recovery after Directly Observed Treatment (DOTS) in neurotuberculosis.
33.	To study the effectiveness of single-dose Tdap (Tetanus, Diphtheria, and Pertussis) under the national immunization schedule in sustaining seroprotection in adolescents.
34.	What are the various etiological and risk factors of gastroesophageal reflux in cerebral palsy?
35.	What are the various sensory problems and its association with behaviour in children with autism?
36.	Assessment of risk factors for hypertension in children with steroid sensitive nephrotic syndrome: A case control study.
37.	What is the feasibility, efficacy, and patient satisfaction in usage of tele-medicine in India?
38.	What are the various epidemiological and risk factors of childhood asthma: A comparative study in urban and rural areas of (specific regions) in India?
39.	What factors are responsible for the delay in the diagnosis of allergic rhinitis among children under 15 years of age?
40.	What are the benefits of screening for retinopathy of pre-maturity of preterm neonates with gestation 32-36 weeks in reducing the incidence of retinopathy of pre-maturity needing treatment?
41.	Comparison of clinical manifestations of bacteriologically confirmed versus clinically suspected pediatric childhood tuberculosis.

<b>Qualitative</b>	
42.	What is the impact of parental education on limiting screen-time in children?
43.	Identifying the factors that are detrimental to successful complementary feeding in young infants in India: A qualitative study.
44.	Knowledge and attitudes of Indian parents having a child with attention deficit hyperkinetic disorder (ADHD) towards its treatment: A qualitative study.
45.	What is the improvement of early skin-to-skin contact and exclusive Breastfeeding Rate at Birth via Education # Reinforcement: A Quality Improvement Initiative.
46.	A study on mental health problems/ substance abuse and risk factors during adolescence.
47.	To assess early learning and responsive care giving opportunities and barriers in under-five children.
<b>Experimental</b>	
48.	What are the benefits of sunlight exposure vs oral vitamin D supplementation for prevention of vitamin D deficiency in infants: Randomized Controlled Trial.
49.	What is effect of levetiracetam Versus phenobarbitone in controlling seizures in neonates with seizures due to non-metabolic cause?
50.	What is the effect of structured breast-feeding vs routine breast-feeding advice and support on exclusive breast-feeding at 6 weeks and 6 months in healthy term neonates?
51.	What is the effect of 3-hourly Versus 2-hourly gavage feeding on nursing time and duration of hospital stay in low birth weight neonates?
52.	What is the effect of withhold enteral feeds Versus continue enteral feeds on feed intolerance in neonates undergoing blood transfusion?
53.	What is the role of oral zinc supplementation Versus placebo for treating acute dehydrating diarrhoea in 5–12-year-olds?

54.	What is the efficacy of add on ketogenic diet Versus standard treatment alone in clinical improvement and improvement on disability indexes in children with Subacute Sclerosing Panencephalitis?
55.	What is the diagnostic accuracy of the World Health Organization (WHO) approved algorithms Versus microbiologically confirmed tuberculosis for "clinical diagnosis of tuberculosis" in children with suspected tuberculosis?
56.	What is the efficacy and safety of empiric co-amoxyclav Versus other injectable antibiotics in children with severe community acquired pneumonia?
57.	What are the benefits of 2-hourly Versus 3-hourly feeding schedule in preterm neonates admitted to Neonatal Intensive Care Unit?
58.	What are the effects on clinical and biochemical outcomes of biologic-targeted treatment Versus standard therapy in children with Juvenile idiopathic arthritis?
59.	What are the effects of Structured Education on sleep hygiene, in addition to standard counselling Versus standard counselling on sleep score - Children's Sleep Habits Questionnaire (CSHQ); quality of life, sleep quality, emotional well-being in children with Autism Spectrum Disorder aged 2-12 years.
60.	To study the efficacy of azithromycin Versus doxycycline in pediatric rickettsial infection.
61.	To compare behavioral therapy Versus Desmopressin for the management of primary monosymptomatic nocturnal enuresis: An open label randomized control trial.
62.	Evaluation of the role of probiotics as an adjunctive therapy in the prevention and management of urinary tract infections in children: An open label randomized control trial.
63.	Is standardized allergen extracts better than conventional allergen extracts for skin prick tests among children under 15years of age with allergic rhinitis?
64.	Is the Forced Oscillation Technique better than Impulse Oscillometry for early detection of small airway obstruction among children under 5years of age?
65.	Is one-time double-dose use of metered dose inhaler (MDI) better than the twice daily dose for management of moderate asthma among children under 15years of age?

66.	What is effect of intravenous bolus before starting intravenous glucose infusion Versus no bolus in recovery from hypoglycemia and neurological outcome in neonates with symptomatic or severe hypoglycemia?
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