

## 10 BEST PAPERS

1. **Bhattacharya D, Namboodiri N, Sreelekshmi MP, Prabhu MA, Sreevilasam Pushpangadhan A, Menon S, Dharan BS, Valaparambil A. Left cardiac sympathetic denervation in children with Jervell Lange-Nielsen syndrome and drug refractory torsades - A case series. Pacing Clin Electrophysiol. 2023 Oct;46(10):1197-1202**
  - Largest study of children with Jervell-Lange Nielsen syndrome and drug refractory torsades de pointes who underwent left cardiac sympathetic denervation
  - Leads to significant reduction of QTc interval and T wave alternans
  - No syncope or sudden cardiac arrest over mean follow-up of 20 months
  
2. **Bhattacharya D, Angurana SK, Nallasamy K, Iyer R, Jayashree M. Severe Dengue and Associated Hemophagocytic Lymphohistiocytosis in PICU. Indian J Pediatr. 2019 Jul 29. doi: 10.1007/s12098-019-03040-0**
  - Includes 22 children who were admitted with severe dengue infection
  - 32% had hemophagocytic lymphohistiocytosis (HLH)
  - Those with HLH had significantly higher incidence pain abdomen, anemia, hypoalbuminemia, elevated alanine aminotransferase (ALT), acute respiratory distress syndrome and mortality
  - Highlights the importance of unrecognized HLH in children with dengue infection
  
3. **Bhattacharya D, Namboodiri N, Nair KKM, Dharan BS, Sasikumar D, Gopalakrishnan A, et al. Long-term outcome of permanent epicardial pacemaker implantation in neonates: Experience from an Indian center. Ann Pediatr Card. 2024;17(2): 97-10.**
  - One of the largest studies of permanent pacemaker implantation in newborns
  - 22 newborns (<28 days), 19 had congenital complete heart block while 3 had post-operative complete heart block
  - Median follow-up – 46 months
  - Overall mortality – 13.6% (significant predictor – post-implantation ventricular dysfunction)
  
4. **Bhattacharya D, Namboodiri N, Valaparambil A, Valakada J, Mohanan Nair KK. Cardiac magnetic resonance imaging in right ventricular outflow tract arrhythmia: a retrospective analysis from a tertiary care centre in South India. Acta Cardiol. 2021 Aug 20:1-6.**
  - 64 patients with RVOT arrhythmia who underwent cardiac MRI

- 9.4% had significant late gadolinium enhancement (LGE)
- 9.8% were diagnosed with arrhythmogenic right ventricular cardiomyopathy
- MRI showed abnormalities in 51.2% of patients with normal ECG and echocardiogram

**5. Bhattacharya D, Panigrahi I, Chaudhry C. Clinical profile of symptomatic congenital cytomegalovirus infection: cases from a tertiary hospital in north India [published online ahead of print, 2020 May 21]. *Trop Doct.* 2020;49475520923491**

- Includes 9 infants with PCR proven congenital CMV infection
- Mean age at diagnosis 3.5 months
- Microcephaly was seen in all, followed by hepatosplenomegaly in 89%, and chorioretinitis in 44% cases. The mean age at diagnosis was 3.5 months.
- Neuroimaging was abnormal in 78%, with ventriculomegaly being the most common finding followed by T2/FLAIR white matter abnormalities, periventricular cysts and intracranial haemorrhage.

**6. Bhattacharya D, Angurana S K, Suthar R, Sundaram V, Kumar P, Saini A, Saini L, Malik MA, Munda VS, Gautam V. Disseminated Staphylococcal Disease in Neonates Admitted to Pediatric Emergency of a Developing Economy: Clinicomicrobiological Profile, Management, and Outcome. *J Postgrad Med Edu Res* 2020; 54 (2):45-49.**

- One of the largest series of disseminated Staphylococcal sepsis in neonates (<28 days)
- 26 neonates
- Foci – skin and soft tissue (88.5%), pneumonia (30.8%), meningitis (26.9%)
- MRSA in 71.4%
- Mortality – 15.4% (important predictors – shock, need for invasive ventilation, respiratory failure)

**7. Banday AZ, Bhattacharya D, Pandiarajan V, Singh S. Kawasaki disease in siblings in close temporal proximity to each other-what are the implications? [published online ahead of print, 2020 Aug 10]. *Clin Rheumatol.* 2020;1-7.**

- Reports siblings diagnosed with Kawasaki disease
- Highlights the increased incidence of Kawasaki disease among siblings
- Extensive review of literature

**8. Bhattacharya D, Dash N, Kavitha TK, Sharma M, Gautam V, Verma S. Lurking Infantile Pertussis: Experience from a Tertiary Care Center in Northern India. *J PediatrInfec Dis.* 2020**

- 30 infants with laboratory confirmed pertussis

- Median age – 10 weeks (60% below 16 weeks of age)
- 40% required ICU admission, almost all required respiratory support
- 10% mortality
- Highlights the incidence of pertussis in young infants before completion of pertussis immunization and emphasizes the need for maternal vaccination

**9. Dawman L, Bhattacharya D, Sharawat IK, Indla RT, Bhatia A, Tiewsoh K. Lipomatosis of spinal epidural space, peritoneum, and renal sinus: a rare complication of long-term steroid therapy in a child with nephrotic syndrome. Childs Nerv Syst. 2019 Apr 2**

- Reports a 10 year old boy with steroid resistant nephrotic syndrome, on unregulated steroid therapy, who presented with severe radicular back pain
- Magnetic resonance imaging of the spine showed increased adipose tissue in the epidural space of the lumbo-sacral spine causing clumping of cauda equina nerve roots along with marked proliferation of fat in the renal sinus as well as peritoneum
- Tapering of steroids and initiation of pregabalin improved symptoms markedly
- Highlights lipid deposition in the epidural spine as an uncommon cause of clumping of cauda equine nerve roots

**10. Pilonia RK, Bhattacharya D, Taneja N, Rawat A, Suri D, Ramachandran R, Tiewsoh K. Infection triggered anti complement factor H (CFH) positive atypical Hemolytic Uremic Syndrome in children: lessons for the clinical nephrologist. J Nephrol (2021). <https://doi.org/10.1007/s40620-020-00913-v>**

- 2 cases of infection-triggered (Shigella and Plasmodium vivax) atypical hemolytic uremic syndrome (aHUS)
- Highlights the need to identify infections as a trigger for aHUS

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