

## **Curriculum Vitae**

Prasanna Samuel, Premkumar  
Lecturer, Biostatistics  
The Wellcome Trust Research Laboratory  
Department of G.I. Sciences  
Christian Medical College,  
Vellore – 632 004  
Tamil Nadu  
India  
Email: [prasanna.samuel@cmcvellore.ac.in](mailto:prasanna.samuel@cmcvellore.ac.in);  
[prasanna\\_samuel@hotmail.com](mailto:prasanna_samuel@hotmail.com)

### **EDUCATION**

2012 PHD (Biostatistics), Christian Medical College, Vellore, India  
2005 MSC (Biostatistics), Christian Medical College, Vellore, India  
2003 BSC (Statistics), Loyola College, Chennai, India

### **EXPERIENCE**

2014-Present, Lecturer, Wellcome Trust Research Laboratory & Department of Biostatistics, Christian Medical College, Vellore  
2012-2014, Researcher, Division of Viral Diseases, Centers for Disease Control and Prevention, Atlanta, USA  
2009- 2012, Lecturer, Department of Biostatistics, Christian Medical College, Vellore  
2005-2009, Senior Demonstrator, Department of Biostatistics, Christian Medical College, Vellore

### **AWARDS**

Best paper award for the junior faculty (2012), Christian Medical College, India

### **ROLES**

Member, Institutional Review Board (IRB), Christian Medical College, India  
Member, Data Safety Monitoring Board (DSMB), Christian Medical College, India

### **PUBLICATIONS**

#### **BOOK**

Principles and Practice of Biostatistics  
Antonisamy B, *Prasanna S Premkumar*. Solomon Christopher 2017.  
Elsevier

## JOURNAL ARTICLES (Total 64)

1. Babu AS, Ikbali FM, Noone MS, Joseph AN, **Samuel P.** (2009). Osteoporosis and osteopenia in India: a few more observations. *Indian J Med Sci.* Feb;63(2):76–7. PMID: 19359771
2. Pai R, **Samuel P**, Nehru AG, Manipadam MT, Thomas SN (2009). Comparison of 11 endogenous control genes for normalization of mRNA obtained from paraffin-embedded tissues. *APMIS.* Dec;117(12):886–92. PMID: 19638904
3. Selvan B, Babu S, Paul MJ, Abraham D, **Samuel P**, Nair A (2009). Mapping the compound muscle action potentials of cricothyroid muscle using electromyography in thyroid operations: a novel method to clinically type the external branch of the superior laryngeal nerve. *Ann Surg.* Aug;250(2):293–300. PMID: 20078553
4. Babu AS, Noone MS, Haneef M, **Samuel P.** (2010). The effects of “on-call/out of hours” physical therapy in acute exacerbations of chronic obstructive pulmonary disease: a randomized controlled trial. *Clin Rehabil.* 2010 Sep;24(9):802–9.
5. Bhagat SK, Gopalakrishnan G, Kekre NS, Chacko NK, Kumar S, Manipadam MT, **Samuel P.** (2010). Factors predicting inguinal node metastasis in squamous cell cancer of penis. *World J Urol.* Feb;28(1):93–8. PMID: 19488760
6. Mathew BS, Fleming DH, Annapandian VM, **Prasanna S**, Prasanna CG, Chandy SJ, et al. (2010). A reliable limited sampling strategy for the estimation of mycophenolic acid area under the concentration time curve in adult renal transplant patients in the stable posttransplant period. *Ther Drug Monit.* Apr;32(2):136–40. PMID: 20216116
7. Mathew BS, Fleming DH, **Prasanna S**, Basu G, Chandy SJ, John GT. (2010). Mycophenolic acid estimation by pooled sampling: a novel strategy. *Ther Drug Monit.* Apr;32(2):141–4. PMID: 20110849
8. Peter JV, Jerobin J, Nair A, Bennett A, **Samuel P**, Chrispal A, et al. (2010). Clinical profile and outcome of patients hospitalized with dimethyl and diethyl organophosphate poisoning. *Clin Toxicol (Phila).* Nov;48(9):916–23. PMID: 21171848
9. Rajendran P, Ajjampur SSR, Chidambaram D, Chandrabose G, Thangaraj B, Sarkar R, **Samuel P**, Rajan DP, Kang G. (2010). Pathotypes of diarrheagenic *Escherichia coli* in children attending a tertiary care hospital in South India. *Diagn Microbiol Infect Dis.* Oct;68(2):117–22. PMID: 20846583
10. Ramani S, Paul A, Saravanabavan A, Menon VK, Arumugam R, Sowmyanarayanan TV, **Samuel P**, Kang G. (2010) Rotavirus antigenemia in Indian children with rotavirus gastroenteritis and asymptomatic infections. *Clin Infect Dis.* Dec 1;51(11):1284–9. PMID: 21039217
11. Sarkar R, Sowmyanarayanan TV, **Samuel P**, Singh AS, Bose A, Muliyl J, et al. (2010). Comparison of group counseling with individual counseling in the comprehension of informed consent: a randomized controlled trial. *BMC Med Ethics.* May 14;11:8. PMID: 20470423
12. Fletcher GJ, Gnanamony M, **Samuel P**, Ismail AM, Kannangai R, Daniel D, Eapen CE, Abraham P. (2010). Association of mannose-binding lectin polymorphisms and HBV outcome in a South Indian population. *Int J Immunogenet.* Jun;37(3):177–84. PMID:

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13. Santhosh S, Dutta AK, **Samuel P**, Joseph AJ, Ashok Kumar J, Kurian G.(2010)Cytokine gene polymorphisms in irritable bowel syndrome in Indian population--a pilot case control study.Trop Gastroenterol. Jan-Mar;31(1):30-3.PMID: 20860222
14. David D, **Samuel P**, David T, Keshava SN, Irodi A, Peter JV. (2011). An open-labelled randomized controlled trial comparing costs and clinical outcomes of open endotracheal suctioning with closed endotracheal suctioning in mechanically ventilated medical intensive care patients. J Crit Care. Oct;26(5):482–8. PMID: 21106340
15. Fleming DH, Mathew BS, **Prasanna S**, Annapandian VM, John GT. (2011). A possible simplification for the estimation of area under the curve (AUC(0)(-)(1)(2)) of enteric-coated mycophenolate sodium in renal transplant patients receiving tacrolimus. Ther Drug Monit. Apr;33(2):165–70. PMID: 21383656
16. Ismail AM, Sivakumar J, Anantharam R, Dayalan S, **Samuel P**, Fletcher GJ, et al. (2011). Performance characteristics and comparison of Abbott and artus real-time systems for hepatitis B virus DNA quantification. J Clin Microbiol. Sep;49(9):3215–21. PMID: 21795507
17. Mathews JE, Biswas B, **Samuel P**, Jana AK, Muliyl JP, Mathai M. (2011). Retrospective cohort study comparing neonatal outcomes of women treated with glyburide or insulin in gestational diabetes: a 5-year experience in a South Indian teaching hospital. Indian J Med Sci. Nov;65(11):476–81. PMID: 23525024
18. Pai R, Nehru GA, **Samuel P**, Paul MJ, Thomas N, Premkumar JA, et al. (2011). Mutational analysis of RET proto-oncogene among patients with medullary thyroid carcinoma and “at risk” carriers from India. Clin Endocrinol (Oxf). Oct;75(4):571–2. PMID: 21521337
19. Vasan SK, Neville MJ, Antonisamy B, **Samuel P**, Fall CH, Geethanjali FS, et al. (2011) Absence of birth-weight lowering effect of ADCY5 and near CCNL, but association of impaired glucose-insulin homeostasis with ADCY5 in Asian Indians. PLoS One;6(6):e21331. PMID: 21712988
20. Gupta G, Paul MR, Kumar S, Devasia A, Mahendri NV, **Samuel P**, et al.(2012). Does urinary metabolic assessment in idiopathic calcium nephrolithiasis matter? A matched case control study among Indian siblings. Indian J Urol. Oct;28(4):409–13. PMID: 23449537
21. Moorthy M, **Samuel P**, Peter JV, Vijayakumar S, Sekhar D, Verghese VP, et al. (2012). Estimation of the burden of pandemic(H1N1)2009 in developing countries: experience from a tertiary care center in South India. PLoS One.;7(9):e41507. PMID: 22957015
22. Nehru GA, Pai R, **Samuel P**, Chacko AG, Chacko G. (2012). Status of O(6) -methylguanine-DNA methyltransferase [MGMT] gene promoter methylation among patients with glioblastomas from India. Neurol India.Oct;60(5):481–6. PMID: 23135024
23. Pai R, Nehru GA, **Samuel P**, Selvan B, Kumar R, Jacob PM, et al. (2012). Discriminating thyroid cancers from benign lesions based on differential expression of a limited set of miRNA using paraffin embedded tissues. Indian J Pathol Microbiol. Jun;55(2):158–62. PMID: 22771635
24. Rupali P, Mannam S, Bella A, John L, Rajkumar S, Clarence P, Pulimood SA, **Samuel P**,

- Karthik R, Abraham OC, Mathai D. (2012). Risk factors for mortality in a south Indian population on generic antiretroviral therapy. *J Assoc Physicians India*. Dec;60:11–4. PMID: 23781664
25. **Samuel P**, Antonisamy B, Raghupathy P, Richard J, Fall CHD. (2012). Socio-economic status and cardiovascular risk factors in rural and urban areas of Vellore, Tamilnadu, South India. *Int J Epidemiol*. Oct;41(5):1315–27. PMID: 22366083
  26. Selvan B, Ramachandran A, Korula A, Amirtharaj GJ, Kettimuthu K, Nair S, Nair A, **Samuel P**, Mathew G. (2012). Low dose aspirin prevents duodenoesophageal reflux induced mucosal changes in wistar rat esophagus by MAP kinase mediated pathways. *Int J Surg*. 2012;10(2):73–9. PMID: 22197650
  27. Singh A, Milton PE, Nanaiah A, **Samuel P**, Thomas N. (2012). Awareness and attitude toward diabetes in the rural population of Arunachal Pradesh, Northeast India. *Indian J Endocrinol Metab*. Mar;16 Suppl 1:S83–6. PMID: 22701853
  28. Tharion E, **Samuel P**, Rajalakshmi R, Gnanasenthil G, Subramanian RK.(2012). Influence of deep breathing exercise on spontaneous respiratory rate and heart rate variability: a randomised controlled trial in healthy subjects. *Indian J Physiol Pharmacol*. Mar;56(1):80–7. PMID: 23029969
  29. Vasan SK, Fall T, Neville MJ, Antonisamy B, Fall CH, Geethanjali FS, Gu HF, Raghupathy P, **Samuel P**, Thomas N, Brismar K et al. (2012). Associations of variants in FTO and near MC4R with obesity traits in South Asian Indians. *Obesity (Silver Spring)*. Nov;20(11):2268–77. PMID: 22421923
  30. Fletcher GJ, Samuel P, Christdas J, Gnanamony M, Ismail AM, Anantharam R, Eapen CE, Chacko MP, Daniel D, Kannangai R, Abraham P.(2012). Association of HLA and TNF polymorphisms with the outcome of HBV infection in the South Indian population. *Genes Immun*. Oct;12(7):552–8. PMID: 21593777
  31. Vasan SK, Pittard AEI, Abraham J, **Samuel P**, Seshadri MS, Thomas N. (2012). Cause-specific mortality in diabetes: retrospective hospital based data from south India. *J Diabetes*. 2012 Mar;4(1):47–54. PMID: 22018101
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  35. Menon VK, George S, Shanti AA, Saravanabavan A, **Samuel P**, Ramani S, et al. (2013). Exposure to human and bovine noroviruses in a birth cohort in southern India from 2002 to 2006. *J Clin Microbiol*. Jul;51(7):2391–5. PMID: 23616452
  36. Simha A, Braganza A, Abraham L, **Samuel P**, Lindsley K. (2013). Anti-vascular endothelial growth factor for neovascular glaucoma. *Cochrane Database Syst Rev*. Oct 2;(10):CD007920. PMID: 24089293
  37. Turel MK, Moorthy RK, Sam GA, **Samuel P**, Murthy M, Babu KS, et al.(2013). Effect of

pretreatment with a tyrosine kinase inhibitor (PP1) on brain oedema and neurological function in an automated cortical cryoinjury model in mice. *J Clin Neurosci.* Apr;20(4):593–6. PMID: 23485404

38. Ismail AM, **Samuel P**, Ramachandran J, Eapen CE, Kannangai R, Abraham P. (2014). Lamivudine monotherapy in chronic hepatitis B patients from the Indian subcontinent: antiviral resistance mutations and predictive factors of treatment response. *Mol Diagn Ther.* Feb;18(1):63–71. PMID: 24030850
39. Pai R, Manipadam MT, Singh P, Ebenazer A, **Samuel P**, Rajaratnam S. (2014). Usefulness of Succinate dehydrogenase B (SDHB) immunohistochemistry in guiding mutational screening among patients with pheochromocytoma-paraganglioma syndromes. *APMIS.* Nov;122(11):1130–5. PMID: 24735130
40. Sachithanandham J, Kannangai R, Pulimood SA, Desai A, Abraham AM, Abraham OC, Ravi V, **Samuel P**, Sridharan G.(2014). Significance of Epstein-Barr virus (HHV-4) and CMV (HHV-5) infection among subtype-C human immunodeficiency virus-infected individuals. *Indian J Med Microbiol.* Jul-Sep;32(3):261-9. PMID: 25008818
41. Balukrishna S, Pilaka VKR, Michael RC, **Samuel P**, Ravindran PB. (2015). Hyper-fractionated Intensity Modulated Radiation Therapy (HF-IMRT) in Head and Neck Cancer: The Technical Feasibility and Results of a Short Clinical Series. *J Clin Diagn Res.* May;9(5):XR01–4. PMID: 26155549
42. **Premkumar P**, Lopman B, Ramani S, Paul A, Gladstone B, Muliyl J, et al.(2014). Association of serum antibodies with protection against rotavirus infection and disease in South Indian children. *Vaccine.* Aug 11;32 Suppl 1:A55–61. PMID: 25091682
43. Ahmed SM, Hall AJ, Robinson AE, Verhoef L, **Premkumar P**, Parashar UD, et al. (2014). Global prevalence of norovirus in cases of gastroenteritis: a systematic review and meta-analysis. *Lancet Infect Dis.* Aug;14(8):725–30. PMID: 24981041
44. Collinet-Adler S, Babji S, Francis M, Kattula D, **Premkumar PS**, Sarkar R, et al. (2015). Environmental Factors Associated with High Fly Densities and Diarrhea in Vellore, India. *Appl Environ Microbiol.* Sep 1;81(17):6053–8. PMID: 26116684
45. Kuruvilla S, Peter J, David S, **Premkumar PS**, Ramakrishna K, Thomas L, et al. (2015). Incidence and risk factor evaluation of exposure keratopathy in critically ill patients: a cohort study. *J Crit Care.* Apr;30(2):400–4. PMID: 25468364
46. **Premkumar PS**, Parashar UD, Gastanaduy PA, McCracken JP, de Oliveira LH, Payne DC, et al.(2015). Reduced rotavirus vaccine effectiveness among children born during the rotavirus season: a pooled analysis of 5 case-control studies from the Americas. *Clin Infect Dis.* Apr 1;60(7):1075–8. PMID: 25452592
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48. Menon VK, George S, Sarkar R, Giri S, **Samuel P**, Vivek R, et al. (2016). Norovirus Gastroenteritis in a Birth Cohort in Southern India. *PLoS One.*;11(6):e0157007. PMID: 27284939
49. Chowdhury SD, Kurien RT, Ramachandran A, Joseph AJ, Simon EG, Dutta AK, David D, Kumar C B, **Samuel P**, Balasubramaniam KA.(2016). Pancreatic exocrine insufficiency: Comparing fecal elastase 1 with 72-h stool for fecal fat

- estimation. *Indian J Gastroenterol*. Nov;35(6):441-444. PMID: 27878466
50. **Premkumar P**, Antonisamy B, Mathews J, Benjamin S, Regi A, Jose R, et al. (2016). Birth weight centiles by gestational age for twins born in south India. *BMC Pregnancy Childbirth*. Mar 24;16:64. PMID: 27012538
  51. Kattula D, Jeyavelu N, Prabhakaran AD, **Premkumar PS**, Velusamy V, Venugopal S, et al. (2017). Natural History of Cryptosporidiosis in a Birth Cohort in Southern India. *Clin Infect Dis*. Feb 1;64(3):347–54. PMID: 28013266
  52. Ranjan P, Fletcher GJ, Radhakrishnan M, Sivakumar J, **Premkumar PS**, Goel A, Zachariah UG, Abraham P.(2016). Association of interleukin-28B rs12979860 and rs8099917 polymorphisms with sustained viral response in hepatitis C virus genotype 1 and 3 infected patients from the Indian subcontinent. *Indian J Med Microbiol*. Jul-Sep;34(3):335-41. PMID: 27514956
  53. Ravan, J.P., Thomas, N., Paul, T., Prasanna, S., Thomas, N. and Ramaswamy, D., 2017. The endocrine impact of long term risperidone therapy in Asian Indian patients. *Open Journal of Psychiatry & Allied Sciences*, 8(2).
  54. Trowbridge P, P D, **Premkumar PS**, Varghese GM. (2017). Prevalence and risk factors for scrub typhus in South India. *Trop Med Int Health*. Feb 7; PMID: 28173608
  55. Leung M, Bassani DG, Racine-Poon A, Goldberg A, Ali SA, Kang G, **Premkumar PS**, Roth DE. Conditional random slope: A new approach for estimating individual child growth velocity in epidemiological research. *Am J Hum Biol*. 2017;00:e23009
  56. Silver, Z.A., Kaliappan, S.P., **Samuel, P.**, Venugopal, S., Kang, G., Sarkar, R. and Ajjampur, S.S., 2018. Geographical distribution of soil transmitted helminths and the effects of community type in South Asia and South East Asia–A systematic review. *PLoS neglected tropical diseases*, 12(1), p.e0006153
  57. Premkumar, K., Vinod, E., Sathishkumar, S., Pulimood, A.B., Umaefulam, V., **Samuel, P.P.** and John, T.A., 2018. Self-directed learning readiness of Indian medical students: A mixed method study. *BMC medical education*, 18(1), p.134.
  58. Fletcher, G.J., Raghavendran, A., Sivakumar, J., **Samuel, P.** and Abraham, P., 2018. Diagnostic reliability of Architect anti-HCV assay: Experience of a tertiary care hospital in India. *Journal of clinical laboratory analysis*, 32(2), p.e22245.
  59. Kakarlapudi, S.R., Chacko, A., **Samuel, P.**, Verghese, V.P. and Rose, W., 2018. Comparison of scrub typhus meningitis with acute bacterial meningitis and tuberculous meningitis. *Indian pediatrics*, 55(1), pp.35-37.
  60. Prasad, M., Isaac, B. and **Premkumar, P.S.**, 2018. Anatomic Landmarks to Identify the Radial Nerve during the Posterior Approach of the Humerus: A Cadaveric Study. *Journal of Clinical & Diagnostic Research*, 12(11).
  61. Lewnard, J.A., Lopman, B.A., Parashar, U.D., Bennett, A., Bar-Zeev, N., Cunliffe, N.A., **Samuel, P.**, Guerrero, M.L., Ruiz-Palacios, G., Kang, G. and Pitzer, V.E., 2019. Heterogeneous susceptibility to rotavirus infection and gastroenteritis in two birth cohort studies: parameter estimation and epidemiological implications. *PLoS computational biology*, 15(7), p.e1007014
  62. Rose, W., Kang, G., Verghese, V.P., Candassamy, S., **Samuel, P.**, Prakash, J.J.A. and Muliyl, J., 2019. Risk factors for acquisition of scrub typhus in children admitted to a tertiary centre and its surrounding districts in South India: a case control study. *BMC infectious diseases*, 19(1), p.665.
  63. Dasgupta, R., Anoop, S., **Samuel, P.**, Kurian, M.E., Inbakumari, M., Finney, G. and

Thomas, N., 2019. Bioimpedance analysis with a novel predictive equation-A reliable technique to estimate fat free mass in birth weight based cohorts of Asian Indian males. *Diabetes & Metabolic Syndrome: Clinical Research & Reviews*, 13(1), pp.738-742.

64. ARPUDH, A.M., PICHAMUTHU, K.K., HANSDAK, S.G., **SAMUEL, P.**, IRODI, A., VALSA, S. and PETER, J.V., 2019. A Randomised Controlled Trial of Lactobacillus in the Prevention of Ventilator Associated Pneumonia. *Journal of Clinical & Diagnostic Research*, 13(8).

## **PROFESSIONAL ACTIVITIES**

Referee for: Indian Journal of Medical Research, BMC Public health, International Journal of Breastfeeding, Nature Scientific reports.