

Scientist Profile

Name	Dr. Newtonraj A
Designation	Scientist E (Medical)
Date of Birth	22.03.1981
Date of Joining	27.05.2021
Date of joining present post	27.05.2021
Discipline	Clinical Research, Community Medicine
Address (off.) including Contact Number*	NIRT Vellore Unit, No 12 A, OPD Block, Government Vellore Medical College, Pin : 632011 Ph: 9489455994
Email address*	newtonraj.a@nirt.res.in

* Mandatory

Educational Qualifications (<i>begin with descending order</i>)			
DEGREE	INSTITUTION AND LOCATION	YEAR(s)	FIELD OF STUDY
DNB	National Board of Examination – India	2019	Community Medicine
MD	Department of Community Medicine, School of Public Health, Post Graduate Institute Of Medical Education And Research (PGIMER), Chandigarh, India	2015	Community Medicine
MBBS	K.A.P.V Government Medical College, Trichy, Tamilnadu,	2007	MBBS
Ongoing			
Ph.D	Manonmaniam Sundaranar University – Tirunelveli	2020- Ongoing	Statistics
Post Graduate Diploma in Bioethics	UNESCO Chair of Bioethics, University of Haifa	2021 - Ongoing	Bioethics

1. Research Experience

1. **NBM/ BIRAC/ DBT - RFP 3 DDESS/ Dengue Surveillance Project** - Community Based Surveillance for Dengue/ DSS in the Urban and Rural Health Centers and Primary Health Centers of PIMS, Puducherry.BT/NBM/0208/05/19 funded by DBT/BIRAC's National Biopharma Mission
2. **Stillbirth - case control study:** "Level, causes and risk factor for stillbirth in Chandigarh". Funded by District Family Welfare Office, Ministry of Health, Govt of India. Institute – PGIMER – Chandigarh (2013-2014).
3. **ICMR- PIMS – CARE (Kidney Diseases)** - Co-investigator in an ICMR -CARE project on Kidney Diseases- Biomarkers & newer therapeutics (ICMRs Centre for Advanced Research and Excellence (CARE)- awarded to SGPGIMS, Lucknow) (2018-2021).
4. **Dengue Tetravalent Phase I/II trial - PIMS:** Co-investigator - A Phase I/II, Double blind, Placebo controlled, Randomized, Multi-Centre, prospective study to evaluate the Safety and Immunogenicity of the single dose 'Dengue tetravalent vaccine, Live attenuated (Recombinant, Lyophilized)' in healthy subjects (2018-2021).
5. **ICMR – INDIAB - PIMS, Puducherry Site (Sept 2018 to Jun 2019)** – Worked as a Co-Ordinator for PIMS Site.

6. **TB Vaccine Trial:** Co-investigator - A Phase III, Randomized, Double-blind, Three arm Placebo controlled Trial to Evaluate the Efficacy and Safety of two vaccines VPM1002 and Immuvac(Mw) in Preventing Tuberculosis (TB) in Healthy Household Contacts of Newly Diagnosed Sputum Positive Pulmonary TB Patients
7. **Moxi4M-Study:** Co-investigator - Multi-centric prospective cohort study of TB recurrence free cure among microbiologically confirmed new pulmonary tuberculosis patients treated under NTEP with the 4-month moxifloxacin containing daily regimen
8. **LevoTPT Study:** Co- Principal Investigator - To evaluate the Effectiveness and Feasibility of 6 months of Levofloxacin as Tuberculosis Preventive treatment (TPT) for Household contacts of bacteriologically confirmed pulmonary Multidrug Resistant adult Tuberculosis Patients.

2. Membership/Fellowship of Professional Societies/Associations:

1. Life time member of Indian Association of Preventive and Social Medicine (IAPSM).
2. Life time member of Indian Public Health Association (IPHA).
3. Member of UNESCO Bioethics Chair – Indian division.
4. Life time member of Epidemiology Foundation of India.

3. Workshops/Conferences/Symposiums:

1. Certified as UNESCO Bioethics Teacher (The International Certificate on Principles of Bioethics and Human Rights 2019)
2. Certified in Advanced course on Health Technology Assessment (Health Economics – PGIMER - Chandigarh)
3. Certified participant/ mentor in SORT-IT (South East Asian Operational Research Training – Initiative by The Union Against Tuberculosis and Lung diseases)
4. Certified in Covid-19 Contact Tracing Course by John Hopkins University
5. Certified in CDSA, THSTI - *GCP Training* (sept-2020)
6. Certified in Establishment of Demographic, Development and Environmental Surveillance Site by DBT, NBM, BIRAC
7. Certified in “A beginner’s Course on Geographic Information System Using QGIS - 2018”
8. Certified in Efficient, Quality assured Data Capture using EpiData – 2016
9. Certified in Principles of Clinical Epidemiology and Biostatistical Methods for Diagnostic Test - 2017

10. Awards/Achievements:

1. Silver Medal in Community Medicine – PGIMER Chandigarh, awarded by Shri.J.P. Nadda, The Union Health Minister (2019), Govt of India.
2. Bronze Medal for Research Work - across all specialties, in PGIMER Chandigarh, awarded by Shri.J.P. Nadda, The Union Health Minister (2019), Govt of India.

11. Publications (Mention your Orchid/PubMed/Google Scholar profile link here, if available)

Google Scholar: https://scholar.google.co.in/citations?user=PV-e_6gAAAAJ&hl=en

Pubmed : <https://pubmed.ncbi.nlm.nih.gov/?term=newtonraj&size=200>

ORCID ID : <https://orcid.org/0000-0001-7462-0219>

Total citation: 1833

List of Publications:

1.	Newtonraj A , Selvaraj K, Purty AJ, Nanda SK, Arokiaraj MC, Vincent A, Manikandan M. Feasibility and outcome of community-based screening for cardiovascular disease risk factors in a remote rural area of South India: The Chunampet rural–Cardiovascular health assessment and management program. Indian Journal of Endocrinology and Metabolism . 2019 Nov 1;23(6):628.
2.	Newtonraj A , Vincent A, Selvaraj K, Manikandan M. Status of coverage of MR vaccination, after supplementary immunization activities in a rural area of South India: a rapid immunization coverage survey. Rural and remote health . 2019 Sep;19(3):5261-.
3.	Newtonraj A , Venables E, Selvaraj K, Kundu D, Purty AJ, Manikandan M, Shewade HD. Xpert negative means no TB: A mixed-methods study into early implementation of Xpert in Puducherry, India. Journal of Family Medicine and Primary Care . 2019 Apr 1;8(4):1379.
4.	Newtonraj A , Kaur M, Gupta M, Kumar R. Level, causes, and risk factors of stillbirth: a population-based case control study from Chandigarh, India. BMC pregnancy and childbirth . 2017 Dec;17(1):371.
5.	Newtonraj A , Purty, A.J, Natesan,M. et al. Ten years Trend in Pediatric Tuberculosis Diagnosis in a South Indian State Under Programmatic Setting. Indian J Pediatr 87, pages768–769(2020)
6.	Lawn, Joy E., et al. "Stillbirths: rates, risk factors, and acceleration towards 2030." The Lancet 387.10018 (2016): 587-603.
7.	Blencowe, Hannah, et al. "National, regional, and worldwide estimates of stillbirth rates in 2015, with trends from 2000: a systematic analysis." The Lancet Global Health 4.2 (2016): e98-e108.
8.	Newtonraj A , Purty AJ, Vincent A, Manikandan M, Bazroy J, Konduru RK, Natesan M. The chunampet community health information management system: A health and demographic surveillance system from a rural South India. J Educ Health Promot . 2021 May 31;10(1):178.
9.	Newtonraj A , Tovia S, Girija G, Manikandan M, Vincent A. Chronic Kidney Disease among Diabetes and Hypertensive Patients in a Remote Rural Area of South India: A Population-based Cross-sectional Study. Indian J Nephrol . 2021 Jul-Aug;31(4):420-422.
10.	Newtonraj A , Arun S, Bazroy J, Tovia S. Lay perspectives on causes and complications of hypertension; and barrier to access health care by known hypertensive patients: a qualitative study from a rural area of South India. International Journal Of Community Medicine And Public Health . 2017 Feb 22;4(3):704-7.
11.	Newtonraj A , Murugan N, Singh Z, Chauhan RC, Velavan A, Mani M. Factors Associated with Physical Inactivity among Adult Urban Population of Puducherry, India: A Population Based Cross-sectional Study. Journal of clinical and diagnostic research: JCDR . 2017 May;11(5):LC15.
12.	Newtonraj A , Manikandan M, Kumar R, Singh Z, Tovia S, Bazroy J. Three Years Experience of Third Year Undergraduate Medical Students in Different Teaching Learning Methods: A Qualitative Study. J Clinical and Diagnostic Res . 2017 Oct 1;11(10):JC5-7.
13.	Newtonraj A . Is There A Huge Research Gap In Indian PublicHealth System? A Review On Published Articles Related To National Health Programmes, In The Pubmed Indexed Journals. International Journal of Health Systems and Implementation Research- December 2018, Vol. 2(2)
14.	Newtonraj A . India's fight against vaccine-preventable diseases; newer changes and challenges. J Med Soc 2019;33:64-5
15.	Newtonraj A , Natesan M, Vasudevan J, Sundar B. Active Case Finding for Pulmonary Tuberculosis in High Risk Situation, May Not Yield Positive Case, but Reassures; experience from Tsunami Quarters in Puducherry, India. Int J Health System and Implementation Res Dec 2019. Vol 3(2)
16.	Newtonraj A , Vincent A, Gowtham PJ, Haritha S, Ilaveyini S. Level of insufficient physical activity among adults in a rural area of South India: A population-based cross-sectional study. Journal of Current Research in Scientific Medicine . 2019 Jul 1;5(2):105.

17.	Newtonraj A , Purty AJ, Manikandan M. Status of contact screening and isoniazid preventive therapy for children under age six in Puducherry district, under the Revised National Tuberculosis Control Programme: An operational research. <i>J Curr Res Sci Med</i> 2020;6:24-7
18.	Newtonraj A . Health and Wellness Centers and Non Communicable disease Care: Opportunities and Challenges in new Government Strategy. <i>J Post Grad Med Edu and Res</i> (2020), Apr - Jun
19.	Newtonraj A , WHO-recommended Hand Rub in Covid 19 Pandemic. <i>Int J Health System and Implementation Res</i> Apr 2020
20.	Newtonraj A. , Stillbirth research in India; Current Scenario and Challenges <i>Int J Health System and Implementation Res</i> Apr 2020
21.	Newtonraj A , Manikandan M, Sasikala JR. Geospatial Clustering of Stillbirth in Chandigarh; <i>Int J Health System and Implementation Res</i> 2020 Vol 4(2)
22.	Newtonraj A , Mani M. Autoregressive Integrated Moving Average Model for Forecasting Coronavirus 2019 in India. <i>J Postgrad Med Edu Res</i> 2020;54(3):122-125
23.	Newtonraj A . Telecommunications and health in rural India: Present scenario and way forward. <i>J Curr Res Sci Med</i> 2020;6:157-8.
24.	Newtonraj A , Manikandan M. Social capital and maternal health: A narrative review. <i>J Curr Res Sci Med</i> 2020;6:73-6.
25.	Newtonraj A , Need for a basic unified Health and Demographic Surveillance System in India: A Public Health View. <i>Int J Health Systems and Implementation Res-2020</i> , Vol. 4(3)
26.	Newtonraj A . Vizag styrene gas tragedy: A public health view to prevent such incidents in future. <i>Journal of Current Research in Scientific Medicine</i> . 2021 Jan 1;7(1):49.
27.	Newtonraj A . Ten years Trend in Adult Tuberculosis Diagnosis in a Southern Union Territory of India. A Public Health view. <i>International Journal of Health Systems and Implementation Research</i> . 2021 Jul 13;5(1):12-5.
28.	Vincent A, Keerthana K, Damotharan K, Newtonraj A , Bazroy J, Manikandan M. Health care seeking behaviour of women during pregnancy in rural south India: a qualitative study. <i>International Journal Of Community Medicine And Public Health</i> . 2017 Sep 22;4(10):3636-9.
29.	Ramesh Kannan S, Sathiyamoorthy P,*, Newtonraj A , Subhasis Das. Relationship between severity of migraine and sympathetic skin response in migraine patients during interictal period: A case control study. <i>Indian Journal of Neurosciences</i> , July-September, 2018;4(3);127-131.
30.	Kaur M, Chakrapani V, Newtonraj A , Lakshmi PV, Vijin PP. Social capital as a mediator of the influence of socioeconomic position on health: Findings from a population-based cross-sectional study in Chandigarh, India. <i>Indian Journal of Public Health</i> . 2018 Oct 1;62(4):294.
31.	Manikandan M, Prasad V, Mishra AK, Konduru RK, Newtonraj A . Forecasting road traffic accident deaths in India using seasonal autoregressive integrated moving average model. <i>International Journal Of Community Medicine And Public Health</i> . 2018 Aug 24;5(9):3962-8.
32.	Hansa A, Sundar B, Vincent A, Newtonraj A , Manikandan M, Bazroy J, Purty AJ. Visual outcome perceptions among post-cataract surgery patients in rural areas of Kanchipuram district, Tamil Nadu <i>Int J Current Res</i> 2019 11(10), 7817-7819
33.	Mahajan PB, Newtonraj A , Bazroy J, Sinha A, Kapil U, Purty A. Choice of point of Care diagnostic device in anemia prevalence surveys: policy-level Implications in monitoring progress and guiding further action. <i>Indian Journal of Community Health</i> . 2018 Apr 25;30(Supp):80-5.
34.	Vincent A, Newtonraj A , Dhamotharan K. Prevalence of Depression and Anxiety among 10 th Standard Exam going Children in Rural area of Kancheepuram District, <i>Res on Humanities and Soci Sci</i> 2017 (7)
35.	Vinothkumar G, Girija G, Manikandan M, Vincent A, Newtonraj A . Prevalence and determinants of Tobacco Use in a Remote Rural Area of South India: A cross sectional study. <i>Int Jour Com Med and Public Health</i> 2020;7:3499-503
36.	Madona Q, Girija G, Newtonraj A , Vincent A, Manikandan M, Diabetes and its Risk factors in a remote rural area of South India, <i>Int J Health System and Implementation Res</i> 2020 Vol 4(2)

37.	Mercy M, Newtonraj A , Lourdu Jafrin Antony, Rajini S, Anil J Purty, ABC-VED Analysis of a Drug Store in Rural Health Training Centre in Kanchipuram District in Tamilnadu Int J Pharm Bio Sci Volume 12 Issue 2, 2021 (April-June), Pages:64-67
38.	Khandpur S, Bhardwaj M, Awasthi A, Newtonraj A , Purty AJ, Khanna T, Abraham G, Tiwari S. Association of kidney functions with a cascade of care for diabetes and hypertension in two geographically distinct Indian cohorts. Diabetes Res Clin Pract. 2021 Jun;176:108861.
39.	Mohankumar R, Rajakarthika GR, Nandhinikumari NR, Sri RN, Mruganayani G, Julieanne JM, Shereen AS, Newtonraj A , Konduru RK. Active tuberculosis cases in the community, lessons learned: Case series. Journal of Current Research in Scientific Medicine. 2021 Jan 1;7(1):39.
40.	Dorthy V, Malar I, Anisha FNU, Alexander AS, Newtonraj A , Girija G. Dyslipidaemia among diabetes and hypertensive patients in a remote rural area of South India, in comparison with ICMR-InDiab study. Int J Community Med Public Health 2021;8:3394-9.
41.	Chandramoorthy K, Rajendran P, Newtonraj A , Rajamanickam R, Purty AJ. Pattern of WhatsApp and Facebook usage and its impact on sleep quality among nursing students in Pondicherry. Int J Community Med Public Health 2021;8:2799-804.
42.	Raghavalakshmi S, Pavithra M, Newtonraj A . Active Case Finding of Tuberculosis in India; A Review. International Journal of Health Systems and Implementation Research. 2021 Jul 13;5(1):27-34.
43.	Gopikrishnan SK, Ponraj DG, Newtonraj A , Purty AJ, Manikandan M, Vincent A. Prevalence and determinants of Alcohol use in a remote rural area in South India: A community-based cross-sectional study. J Family Med Prim Care 2020;9:4333-6
44.	Ponraj DG, Gopikrishnan SK, Newtonraj A , Arokiaraj MC, Purty AJ, Nanda SK, Manikandan M, Vincent A. Cardiovascular risk using WHO-ISH chart among Diabetes and Hypertensive patients in a remote rural area of South India. J Family Med Prim Care 2020;9:4145-50
45.	Samundeswari G, Pradeep K, Niranjana R, Newtonraj A . Covid-19 Vaccine Hesitancy to Insufficiency in India; A Public Health view on Covid-19 Vaccination in India. International Journal of Health Systems and Implementation Research. 2021 Jul 13;5(1):50-3.
46.	Malar I, Dorthy V, Newtonraj A . Childhood poisoning causes and prevention; eight years of our rural hospital experience from South India. Int J Community Med Public Health 2021;8:
47.	Konduru R, Newtonraj A , Arun S, Velavan A, Singh Z. Oral cancer awareness of the general public in coastal village areas of Tamilnadu, India: a population based cross sectional study. International Journal Of Community Medicine And Public Health. 2016 Dec 28;3(7):1932-9.