



**Global Institute
of Public Health**

Global Institute of Public Health

ANNUAL REPORT

2019–2020

About Global Institute of Public Health (GIPH)

*A new-age public health institute under Ananthapuri Educational Trust,
Thiruvananthapuram, Kerala*



There is an enormous demand for qualified and trained public health specialists in India and other developing countries. In the context of very few institutes in Asian countries, offering quality-assured specialized training in public health suited for the needs of countries like India, Ananthapuri Educational Trust decided to develop a state-of-the-art public health institute – Global Institute of Public Health (GIPH). The institute is guided by an international advisory group consisting of eminent public health leaders from different parts of the world. GIPH collaborates with prominent international organizations, public health institutions and Universities across the globe. Many global public health professionals of Indian origin with immense experience in public health practice and training have committed to be part of this new initiative in Kerala.

GIPH also supports health departments of various state governments to extend training to in-service candidates to equip them to be better public health managers and works with Indian research and teaching institutes to develop a network of public health researchers. Global Institute of Public Health is hosted and administered by the Ananthapuri Educational Trust- a not for profit organization aimed at fostering higher education in medical science and public health. The trust, which was founded a decade ago has already made major strides in the field of medical and technical education in the country and currently runs more than 20 medical and related courses.

The institute is also attached to a 500-bedded tertiary care teaching hospital, Ananthapuri Hospitals and Research Institute (AHRI) which conducts National Board of Examination accredited Diplomate programs in Cardiology, Nephrology, Anesthesiology, Emergency Medicine and General Medicine and various other certified masters' programme. The attached College of Nursing is recognized by Indian Nursing Council, Kerala Nurses & Midwives Council and is affiliated Kerala University of Health Sciences. The college offers BSc (Nursing) and specialized MSc (Nursing) programs. Ananthapuri Institute of Paramedical Sciences offers various Diploma and Technology courses like the DMLT (Diploma in Medical Laboratory Technology), DOTT (Diploma in Operation Theatre Technology), DCVT (Diploma in Cardio Vascular Technology), DNT (Diploma in Neuro Technology) and DDT (Diploma in Dialysis Technology).

Academic activities

1. Master of Public Health (MPH)

The Master of Public Health (MPH) degree program by Global Institute of Public Health, affiliated to the Kerala University of Health Sciences (KUHS) is a high-intensive, demanding, interdisciplinary program emphasizing student-directed competency-based, learning, problem solving, and the acquisition of fundamental public health skills with value addition. It is envisaged as a comprehensive MPH program based on the principles and practices in public health with suitable and relevant modules catering to the needs of the public health system in India. This is a comprehensive Master's program in public health suitable for the needs of the public health system in India, keeping in mind the double burden of diseases the country is currently going through, with extreme shortage of human resources available with adequate public health training.

Objectives

Goals

Empowering persons from multiple disciplines with a public health vision for effective public health in India is the overall goal of this program. Master of Public Health course by

Global Institute of Public Health will open a new opportunity for people interested to understand, study and practice public health and its various sub-specialties in India. The proposed MPH program will help a long way in building the public health capacity of health human resources in our country. The Institute aims to run a world- class MPH program which can meet the requirements of not only India, but also other developing countries of the world- in terms of adequately trained public health practitioners. The MPH program under KUHS is ongoing since November 2017 onwards. We have got 6 students for MPH first batch and 3 students for MPH second batch. The third batch (intake in 2019) has 13 MPH students.

Regular Faculty

- i. Dr. Kesavan Rajasekharan Nayar MCH, PhD (Principal, Professor and Head)
- ii. Dr. S S Lal MBBS, MPH, MBA, PhD (Professor)
- iii. Dr. V Mohanan Nair MBBS, MPH, MHSc (Bioethics), PhD (Public Health) – Professor
- iv. Dr. Chitra Grace A MSc, MPH, PhD (Associate Professor)
- v. Dr. G K Mini MSc, MPhil, PhD (Associate Professor)
- vi. Dr Anand Marthanda Pillai MD, MPH, FACC, FHRS (Assistant Professor)
- vii. Mrs. Minu Abraham BSc Nursing, MPH (Lecturer)
- viii. Mr. Jinbert Lordson MSc, CCRP (Lecturer)

Honorary / Visiting Faculty

- i. Prof. Dr. C G Bahuleyan, MD, DM, FRCP, FSCAI (Honorary Professor)
- ii. Dr. Hemachandran MBBS, MPH (Adjunct Professor)
- iii. Dr. Ambarish Dutta MBBS, MPH, PhD (Associate Professor)
- iv. Dr. Anant Kumar MA, MPhil, PhD (Adjunct Additional Professor)
- v. Dr Vijaykumar Chattu MBBS, MPH, PhD (Adjunct Research Professor)
- vi. Dr. Shiraz Bava PhD (Adjunct Professor)
- vii. Dr. Hannah Monica Dias, WHO, Geneva, Switzerland (Visiting Professor)
- viii. Prof Dr Kumudu Wijewardena MD, PhD Srilanka (Visiting Professor)

- ix. Prof Dr.Seval Akgun MD, PhD, Turkey (Visiting Professor)
- x. Prof Dr.Monika Sawhney PhD, USA (Visiting Professor)

2. PhD Research Centre

GIPH is a recognized Research Centre under KUHS and we have three research guides, they are Prof. K Rajasekharan Nayar (Principal, GIPH), Prof. Dr. C G Bahuleyan, (Honorary Professor) and Dr. Chitra Grace A (Associate Professor, GIPH).

Activities of GIPH

Workshops conducted

1. State level Dissemination workshop on WHO Project

The state level dissemination workshop on WHO Project was conducted on 21 August 2019 at Hotel South Park, Thiruvananthapuram.

With concerted efforts of health department and academic institutions and with the support of civil society and religious organizations, Kerala can regain and sustain the achievements in health especially vaccination, said the Kerala Health Minister, Smt. KK Shailaja teacher. She was inaugurating the state level dissemination workshop on Vaccination and Social Media, organized by Trivandrum based Global Institute of Public Health (GIPH) and the Department of Health Services at Hotel South Park, Thiruvananthapuram on 21st August 2019. The workshop was the final dissemination activity of the multi year project supported by a grant from World Health Organization. Dr Marthanda Pillai who chaired the meeting appreciated the government in building confidence in the Government health institutions among public by increasing the facilities substantially. The research study aimed at understanding and addressing the role of social media in vaccine hesitancy in the state especially Malappuram district which has the lowest rates of vaccination. The study was prompted by the outbreak of diphtheria and deaths due to diphtheria in Malappuram district a few years ago and was supported by UNICEF WHO and GAVI under the Decision-Maker Led Implementation Research (DELIR)

project which supported immunization related projects in about 10 countries. Dr Anoop TN medical officer of the Nilambur PHC was the principal investigator of the study which consisted of in depth interviews and focus group discussions among parents and grandparents of vaccinated and unvaccinated children, religious leaders teachers alternate medical practitioners besides administrators, doctors nurses and ASHA workers. Even though religious factors play some role, the major factors affecting the vaccination coverage are the patriarchal nature of the society and the increasing role of misinformation shared by the anti vaccine groups using the unregulated social media, the study found.

The research team lead by Prof Rajasekharan Nayar and Dr Muhammed Shaffi developed a compendium of information to serve as a question and answer for Health workers to address the common concerns and myths in the community regarding immunization. The compendium and a mobile application (Pradhirodh-The VaxApp) which can be handy for health workers in the field were released on the occasion by the minister Dr. Anand M Pillai welcomed the gathering. Dr. Sreejith N Kumar (Past state president, IMA - Kerala) and Prof. Dr. K.E. Elizabeth (Pediatrician, Ananthapuri Hospitals & Research Institute (AHRI), Thiruvananthapuram, Kerala)) felicitated on the occasion. Dr Anoop gave the vote of thanks.



1. Workshop on Emergency Medicine & Accidental Care, 16th March 2019

One day workshop was conducted for Medical and Paramedical students of Kerala University of Health Sciences at Global Institute of Public Health. The Vice Chancellor Prof. Dr. M K C Nair inaugurating the Workshop on Emergency and Accidental Care at Global Institute of Public Health, Thiruvananthapuram. Dr. Shiju Stanly and Emergency and Critical Care team under him conducted various sessions and hands on training to students. A total of 127 delegates participated.



3. Inauguration of district level STEPS program 2019

Kerala has set the target of Tuberculosis (TB) elimination by the year 2020. We at Ananthapuri Hospitals and Research Institute and Global Institute of Public Health joined hands with the Department of Health and Family Welfare and State TB Cell in the fight against TB. The State TB cell and the RNTCP, has set up a unique public private partnership (PPP) throughout Kerala involving private hospitals, called STEPS (System for TB Elimination in Private Sector). Through STEPS, private hospital will receive all help needed to provide free diagnosis, and treatment for TB patients. In return, the private hospitals need to maintain good follow-up of their TB patients to make sure they complete treatment.



Webinar

GIPH had conducted a webinar on COVID-19 Post lock down challenges & the way forward in association with IMA on 11 April 2020 and released proceedings of the webinar.

OVERVIEW OF CURRENT COVID 19 STATUS IN KERALA AND INDIA
 Dr. A Marthanda Pillai (Chairperson, GIPH and Past National President IMA)

EASING LOCKDOWN IN A BALANCED MANNER TO LIMIT COMMUNITY SPREAD AND RESCUE THE FAILING ECONOMY.
 Speaker: Prof. K Rajasekharan Nayar (Prof and Head, GIPH)
 Discussants: Dr. Abraham Varghese (President, IMA, Kerala State), Anu S Nair (Deputy Collector)

ROLE OF PUBLIC-PRIVATE PARTNERSHIP TO ADDRESS COMMUNITY SPREAD POST LOCK-DOWN
 Speaker: Dr. S S Lal (Director, Infectious Diseases (TB Portfolio), FHI 360, USA)
 Discussants: Dr. Sulfi Noohu (Vice President, IMA, Kerala State) Dr. Anupama R (President, IMA, TVM)

MISTAKES AND LESSONS FROM THE WESTERN WORLD HOW TO SCREEN INTERSTATE AND INTERNATIONAL VISITORS POST LOCKDOWN
 Speaker: Dr. Muhammed Shaffi (Public health researcher, Boston university, School of public health)
 Discussants: Dr. V Mohanan Nair (Prof, GIPH) Dr. Althaf Ali (Prof, Community Medicine, MC, Manjeri)

REBOOTING THE PRIVATE HEALTH SECTOR POST COVID
 Speaker: Dr. Sreejith N Kumar (Past President, IMA, Kerala State)
 Discussant: Dr. A V Jayakrishnan (Chairman, HBI)

BALANCING COMMUNITY SPREAD AND DEVELOPMENT OF HERD IMMUNITY.
 Speaker: Dr. P S Indu (Prof and Head of Community Medicine, MC, TVM)
 Discussants: Dr. Anish T S (Asst. Prof, Dept of Community Medicine, MC, TVM)
 Dr. Aju Mathew (Epidemiologist and Medical Oncologist)

Webinar

COVID-19-Post Lockdown Challenges and the Way Forward

The Proceedings

Organized by

**Global Institute of Public Health (GIPH),
Ananthapuri Hospitals and Research Institute (AHRI)**
 Thiruvananthapuram

11 April, 2020



Global Institute
of Public Health



**Ananthapuri Hospitals
AND RESEARCH INSTITUTE**



GIPH Lecture series conducted

a. Health system challenges in the context of double burden of diseases across developing economies



Talk by Prof. Monika Sawhney, University of North Carolina@ Charlotte campus, USA on 26th June 2019.

b. Health Disparities Research: Some recent trends



Health Disparities Research: Some recent trends. March 7th 2019. Professor TS Sunil, Director Institute of Health Disparities Research, University of Texas, at San Antonio and Dr. Lisa Zotteralli, Texas Women's University, Texas

c. Evidence informed practice and policy in Public Health



Evidence informed practice and policy in Public Health, talk by Dr Denny John, Evidence Synthesis Specialist, The Campell Collaboration, Global Development Network, New Delhi on 4th January 2019.

c. Tuberculosis & Neglected Tropical Diseases

GIPH has conducted a lecture series talk on Tuberculosis & Neglected Tropical Diseases 4th November 2019 by Dr. Cherise P Scott, UNITAID, WHO, Geneva



d. Outbreak Investigation, Disease surveillance and bio- terrorism

Dr. Sandheep Sugathan, Quest International University, Malaysia delivered a lecture on Outbreak Investigation, Disease surveillance and bio- terrorism on 30 December 2019.



e. Emerging and Re-emerging infectious diseases

Prof. Sabu. P. Padmadas, Southampton University, UK delivered a lecture on Emerging and Re-emerging infectious diseases on 20 February 2020.



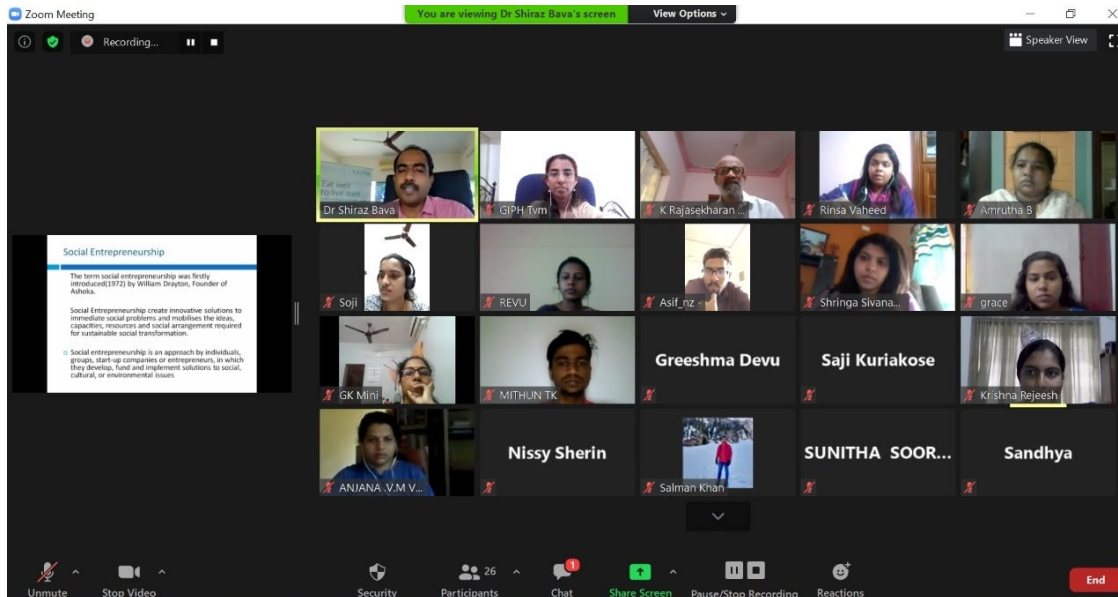
f. Special Session by Brunel University, UK

Dr. Christina Victor (Vice Dean Research / Professor of Gerontology and Public Health) and Dr. Michael Joseph, Business Development Manager), Brunel University, London conducted a special session with the GIPH team.



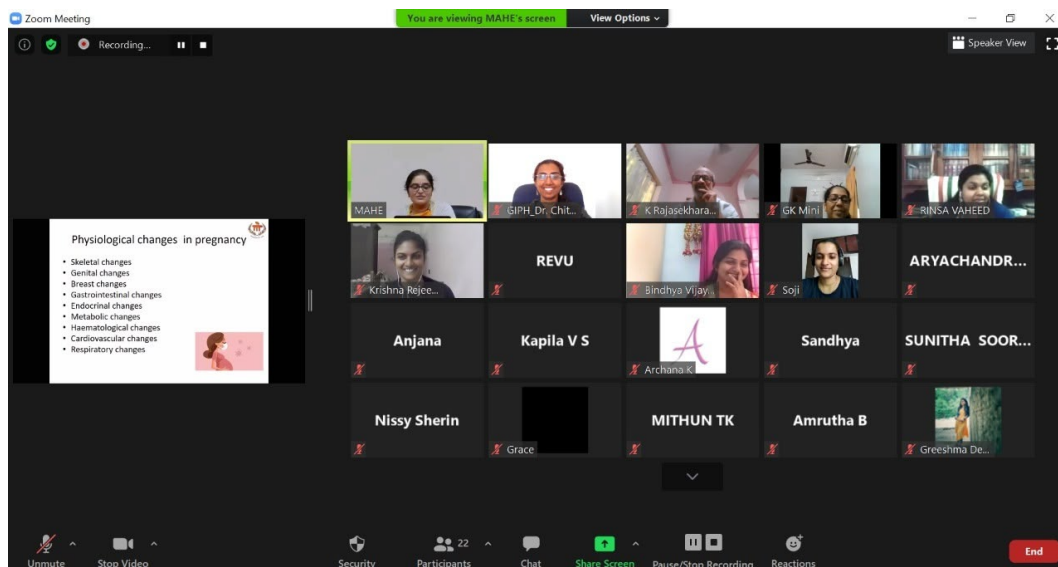
g. Social entrepreneurship in Health

Dr. Shiraz Bava (Chief Operating Officer & co-founder of ALIVE) delivered a lecture on Social entrepreneurship in Health on 8 August 2020.



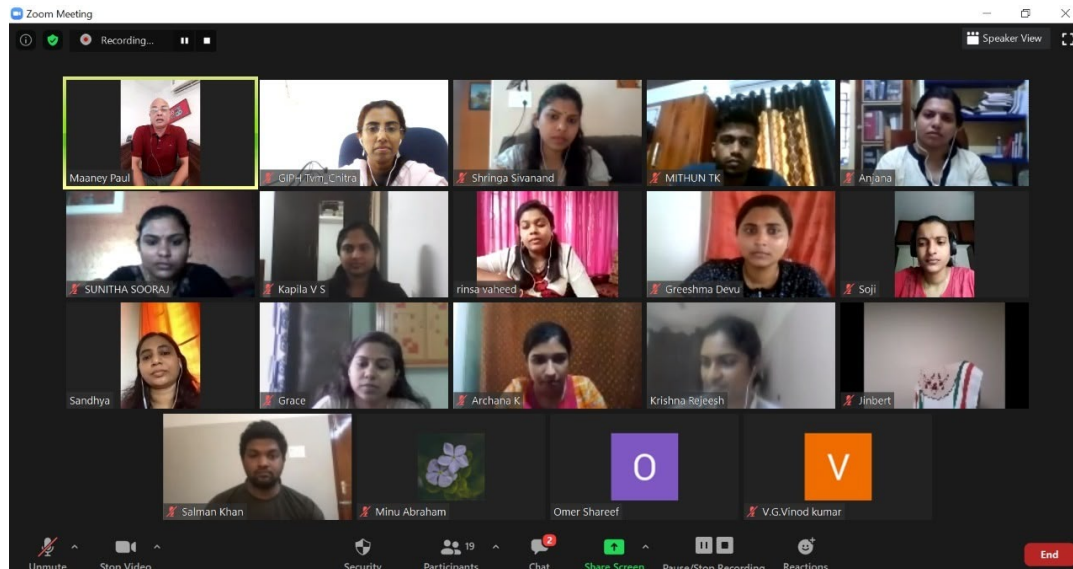
h. MCH care during COVID-19

Dr. Aarthi Rao, Community Medicine Department, Manipal University delivered a lecture on MCH care during COVID-19 on 13 August 2020.

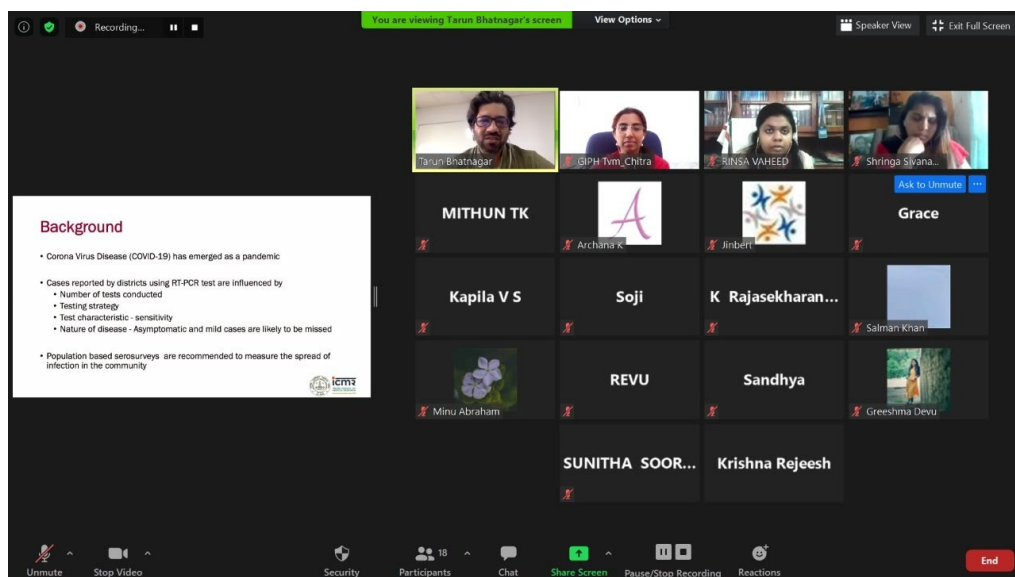


Special sessions by eminent professionals

a. Talk on personality development by Dr. Manney Paul on 4 September 2020



b. Talk on ICMR SARS- COV2 sero-prevalence survey by Dr. Tarun Bhatnagar, Scientist E (National Institute of Epidemiology, ICMR School of Public Health, Chennai)



Conference presentation

Dr. Bindhya, our MPH student (First batch) presented her thesis at the national conference on “The UN Sustainable Development Goals, Ba-Bapu and Civil Society”, Karnataka, 31st May 2019.



Internship at GIPH (2016–19)

Global Institute of Public Health has provided internship opportunity to Master of Public Health (MPH) students. Details of the interns during 2019–2020 are given below.

Sl no	Name	College	Internship period
1	Farhat SK	Central University, Coimbatore	02-Jan-2019-28 Feb 2019
2	Kirthi Surendran	Central University, Coimbatore	02-Jan-2019-28 Feb 2019
3	Sukanya Mohan	Central University, Coimbatore	02-Jan-2019-28 Feb 2019

Publications from GIPH team (2019– 20)

Journal articles

1. Rajasekharan Nayar, K., Fazaludeen Koya, S., Mohandas, K., Sivasankaran Nair, S., Chitra, G.A., Abraham, M., & Lordson, J. (2020). Public health implications of Sabarimala mass gathering in India: A multi-dimensional analysis to be published in: Travel medicine and infectious disease. Travel Medicine and Infectious Disease, 37(March), 101783

2. Visweswaran, K., Shaffi, M., Mathew, P., Abraham, M., Lordson, J., Rajeev, P., Thomas, R., Aravindakshan, R., Jayadevan, G., Nayar, K.R. and Pillai, M., 2020. Quality of Life of End Stage Renal Disease Patients Undergoing Dialysis in Southern Part of Kerala, India: Financial Stability and Inter-dialysis Weight Gain as Key Determinants. *Journal of Epidemiology and Global Health* (In press)
3. Mini GK, Sarma PS, Thankappan KR. Tobacco use and tobacco control practices of school teachers in Kerala, India: Results of a cross sectional survey. *International Journal of Innovative Research and Knowledge* (In press).
4. Mini GK, Sarma PS, Priya C, Thankappan KR. Control of hypertension among teachers in schools in Kerala (CHATS-K), India. *Indian Heart Journal* 2020. <https://doi.org/10.1016/j.ihj.2020.06.005>
5. Local Burden of Disease Child Growth Failure Collaborators (Author Mini GK). Mapping child growth failure across low- and middle-income countries. *Nature*. 2020 Jan;577(7789):231-234. doi: 10.1038/s41586-019-1878-8.
6. Haagsma JA et al... Mini GK,Vos T. Burden of injury along the development spectrum: associations between the Socio-demographic Index and disability-adjusted life year estimates from the Global Burden of Disease Study 2017. *Injury Prevention*. 2020 Jan 8;injuryprev-2019-043296. doi: 10.1136/injuryprev-2019-043296.
7. LBD Double Burden of Malnutrition Collaborators (Author Mini GK). Mapping local patterns of childhood overweight and wasting in low- and middle-income countries between 2000 and 2017. *Nature Medicine*. 2020 May;26(5):750-759. doi: 10.1038/s41591-020-0807-6.
8. Thrift AG, Ragavan RS, Riddell MA, Joshi R, Thankappan KR, Chow C, Oldenburg B, Mahal AS, Kalyanram K, Kartik K, Suresh O, Mini GK, Ismail J, Gamage DG, Hasan A, Srikanth VK, Thomas N, Maulik PK, Guggilla RK, Evans RG. Hypertension in Rural India: The Contribution of Socioeconomic Position. *Journal of American Heart Association*. 2020 Apr 7;9(7):e014486. doi: 10.1161/JAHA.119.014486.
9. GBD 2016 Occupational Chronic Respiratory Risk Factors Collaborators; GBD 2016 occupational chronic respiratory risk factors collaborators (Author Mini GK). Global and regional burden of chronic respiratory disease in 2016 arising from non-infectious

- airborne occupational exposures: a systematic analysis for the Global Burden of Disease Study 2016. *Occupational and Environmental Medicine*. 2020 Mar;77(3):142-150. doi: 10.1136/oemed-2019-106013.
10. Ravindranath R, Oldenburg B, Balachandran S, Mini GK, Mahat K, Sathish T, Thankappan KR. Scale-up of the Kerala Diabetes Prevention Program (K-DPP) in Kerala, India: implementation evaluation findings. *Translational Behavioural Medicine*. 2020 Feb 3;10(1):5-12. doi: 10.1093/tbm/ibz197.
 11. Gamage DG, Riddell MA1, Joshi R, Thankappan KR, Chow CK, Oldenburg B, Evans RG, Mahal AS, Kalyanram K, Kartik K, Suresh O, Thomas N, Mini GK, Maulik PK, Srikanth VK, Arabshahi S, Varma RP, Guggilla RK, D'Esposito F, Sathish T, Alim M4, Thrift AG. Effectiveness of a scalable group-based education and monitoring program, delivered by health workers, to improve control of hypertension in rural India: A cluster randomised controlled trial. *PLoS Med*. 2020 Jan 2;17(1):e1002997. doi: 10.1371/journal.pmed.1002997.
 12. Local Burden of Disease Educational Attainment Collaborators (Author: Mini GK). Mapping disparities in education across low- and middle-income countries. *Nature*. 2019 Dec 25. doi: 10.1038/s41586-019-1872-1.
 13. Mini GK, Sarma PS, Thankappan KR. Cluster randomised controlled trial of behavioural intervention program: a study protocol for control of hypertension among teachers in schools in Kerala (CHATS-K), India. *BMC Public Health*. 2019 Dec 21;19(1):1718. doi: 10.1186/s12889-019-8082-5.
 14. Mini GK, Sarma PS, Thankappan KR. Risk of progression to hypertension from prehypertension and normal blood pressure: Results from a prospective cohort study among industrial workers in Kerala, India. *Heart and Mind*. 2019;2:106-10.
 15. Mapping 123 million neonatal, infant and child deaths between 2000 and 2017 (Author: Mini GK). *Nature*. 2019 Oct;574(7778):353-358. doi: 10.1038/s41586-019-1545-0. Epub 2019 Oct 16. (Impact factor 43.070)
 16. Naghavi M; Global Burden of Disease Self-Harm Collaborators (Author: Mini GK). Global, regional, and national burden of suicide mortality 1990 to 2016: systematic analysis for the Global Burden of Disease Study 2016. *BMJ*. 2019 Feb 6;364:l94. doi: 10.1136/bmj.l94. (Impact factor 27.604)

17. Krishnan AI, Mini GK, Aravind LR. Evidence based interventions and implementation gaps in control of tuberculosis: A systematic review in low and middle-income countries with special focus on India. *Indian Journal of Tuberculosis*. 2019 Apr;66(2):268-278. doi: 10.1016/j.ijtb.2019.04.006
18. Oommen AM, Mini GK, George K. Intra-cluster correlation estimates from a World Health Organisation STEPwise approach to surveillance (STEPS) survey for cardiovascular risk factors in Vellore, Tamil Nadu, India. *Public Health*. 2019 Feb 6;168:102-106. (impact factor 1.441).
19. Devamani CS, Oommen AM, Mini GK, Abraham VJ, George K. Levels of Physical Inactivity in Rural and Urban Tamil Nadu, India: A Cross-Sectional Study. *Journal of Clinical and preventive cardiology*. 2019; 8(1): 13-17.
20. Mini GK, Sarma PS, Thankappan KR. Overweight, the major determinant of metabolic syndrome among industrial workers in Kerala, India: Results of a cross-sectional study. *Diabetes & Metabolic Syndrome: Clinical Research & Reviews*. 2019 Sep - Oct;13(5):3025-3030. doi: 10.1016/j.dsx.2018.07.009. (impact factor 0.848)



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