**(Curriculum Vitae)**

**PRABHAKARAN DORAIRAJ,** **MD ; DM (Cardiology) ; MSc ; FRCP ; FNASc; FNA, DSc ( Honoris Causa)**

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**Curent Positions**

* Vice President ( Research and Policy) and Director, Centre for Control of Chronic Conditions, Public Health Foundation of India
* Executive Director, Centre for Chronic Disease Control (CCDC) and Head, WHO Collaborating Centre for Surveillance, Capacity Building and Translational Research in Cardio-metabolic Diseases for the South-East Asia Region (WHOCC No. IND-124)
* Director of the Centre of excellence in Clinical Research at Centre for Chronic Disease Control, recognized by the Department of Biotechnology, Government of India
* Professor, Epidemiology, Public Health Foundation of India
* Professor, NCD epidemiology, London School of Hygiene and Tropical Medicine, London, UK
* Adjunct Professor, Rollins School of Public Health, Emory University, U.S.A

**Other Positions**

* Director and Principal Investigator, NHLBI (USA) CARRS (Center for cArdiometabolic Risk Reduction In South Asia) Centre of Excellence, PHFI, New Delhi ( 2009-2014)
* International Program Director, Fogarty International Centre at the PHFI, New Delhi (2009-2014); <http://www.fogartyscholars.org>
* Former Additional Professor, Department of Cardiology, CT Centre, All India Institute of Medical Sciences (AIIMS), New Delhi till October 2007
* Visiting Scholar Mike Rosenbloom Laboratory for Cardiovascular Research, Department of Cardiology, McGill University, Montreal, Canada
* Member, Editorial Board, Clinical science
* Consultant/Technical Advisor to WHO (2005-2009): Prevention and Control of Cardiovascular/ Non-Communicable Diseases
* Technical Expert and Member, Scientific Advisory Committee on Non-Communicable Diseases, Indian Council of Medical Research (2004-till date)
* Co-Chair Scientific Advisory Committee on Non-Communicable Diseases, Indian Council of Medical Research (2004-till date)
* Technical advisor to the Ministry of Health, Government of India on developing the national cardiovascular disease and diabetic control programme (till 2007).
* Special Invitee to the Steering committee of the National Cardiovascular and diabetes Prevention Programme, of the Ministry of Health, Government of India (2008)
* Member, Capacity building subcommittee of the Steering committee of the National Cardiovascular and diabetes Prevention Programme, of the Ministry of Health, Government of India (2008)
* Member, Scientific Advisory Committee, Health Impact Fund
* Co-Chair, Scientific Committee of the World Congress of Cardiology, Melbourne, 2014
* Reviewer for National Medical Journal of India, Hypertension, International Journal of Cardiology, Open Medicine, Atherosclerosis, Circulation, PLoS Medicine, Lancet etc.
* Regional Policy Note Consultant for the World Bank in developing policy options for non-communicable diseases in Nepal and India.
* Consultant, World Bank for developing NCD component for the Karnataka Health System Development and Reforms Project
* Population Health Research Institute International Fellow, McMaster University, Hamilton, ON, Canada
* Associate Editor, Journal of Epidemiology and Community Health (JECH) 2008-2011
* Member, Executive Council, World Hypertension League
* Member Research Committee, Cardiology Society of India.
* Chairperson, Expert group on Salt, Sugar & Fat in Food Products in India constituted by Food Safety and Standards Authority of India (Standards Division) to develop guidelines for these foods (2016)
* **John L. Locke Visiting Professor, University of Washington, October 2017**
* Member, Executive Council and Chair of the South and West Asia Regional Advisory Group, International Society of Hypertension (ISH)
* Chair, Executive Council of the International Society of Cardiovascular Epidemiology and Prevention (ISCEP)
* Chairman, Science Committee, World Heart Federation
* Member, Advisory Board, Nature Reviews Cardiology
* International Editor, Hypertension
* Guest Editor, Neglected Tropical Disease, Journal of American College of Cardiology

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**Date of Birth**: August 22, 1961

#### ****Academic Qualifications****

* MBBS, from Bangalore Medical College in 1985 with an overall percentage of 66% (first division) and was awarded distinction in Pharmacology.
* MD (Medicine), All India Institute of Medical Sciences, Delhi, 1990
* DM (Cardiology), All India Institute of Medical Sciences, Delhi, 1993
* MSc (Health Research Methodology), McMaster University, 2006

**Training/Examinations**

* Passed the USMLE examination held in September 93, with scores of 84 & 87 in part I & part II respectively
* Fellow of the 28th day International Teaching Seminar on Cardiovascular Epidemiology & Prevention of Cardiovascular Disease, under the ISFC, held at Munich from 20.8.95 to 1.9.95.
* Research fellowship at McMaster University from July 2002 to July 2004
* Attended the summer epidemiology course at Johns Hopkins University, Baltimore, USA to train in ***genetic epidemiology***.

### ****Awards (Personal)****

* **Conferred Doctor of Science (Honoris Causa) by the University of Glasgow in July 2022.**
* **Listed among the World’s top 2% of Scientists by Stanford University (August 2021)**
* **Elected as Fellow of the Indian National Science Academy the highest Science Academy of India in October 2021**
* **Featured in the “Leaders” section of the European Journal of Cardiology (European Heart Journal (2021) 00, 1–2 doi:10.1093/eurheartj/ehab305)**
* **Awarded the prestigious Geoffrey Rose Lecture on Population Sciences at ESC 2020**
* **Listed as the topmost researcher in Medicine in India in terms of publications for the years 2009-2014 by Scopus and Department of Science & Technology,** **Government of India.**
* **Hari and Madhu Varshney Visiting Professor at Simon Fraser University, Canada, 2020**
* **DL Shah Quality Champion Award (2018) by Quality Council of India**
* BMJ South Asia Awards: Finalist Research Paper of the Year ( 2018)
* **Uma Rani Banarjea Oration Award at the 68th Annual Cardiological Society of India meet at Kochi 2016**
* 2nd Runner up award in Poster Presentation for Capacity Building in Health Care at FICCI Heal 2015 (FICCI is a prominent Indian Chamber of Commerce, and this is a leadership award)
* **Fellow, National Academy of Sciences, India, 2011**
* **Fellow of the Royal College of Physicians (FRCP), London, UK, 2011**
* **KK Datey Oration Award at the 61st Annual Cardiological Society of India meet at Kochi 2009**
* 4th MDRF-UAB Oration Award bestowed by the Scientific Committee of the Madras Diabetes Research Foundation, Chennai, for being outstanding scientist and researcher of 2009
* WCCPGC-2008 “Distinguished Service Award” bestowed by Bharat Ratna His Excellency Dr. A.P.J. Abdul Kalam (Former President of India) and Prof. Navin C. Nanda. USA
* Dr. P.S. Rao Gold Medal oration bestowed by the Andhra Pradesh Cardiological Society of India APCSI – 2007 held in Tirupathi, Andhra Pradesh

**Awards (Group)**

* The Federation of Indian Chambers of Commerce and Industry (FICCI)- Healthcare Excellence Awards 2018 (10th Edition) for Skill Development for capacity building initiative to train primary care physicians in India in Chronic Diseases.
* Confederation of Indian Industry (CII) Sixth National Excellence Practice competition 2018 for Best NGO/Education skill building of primary care physicians in Chronic Diseases in India.
* DL Shah Platinum award (2017): Commendation Certificate and Award presented by the Quality Council of India for Excellence in skill-building of primary care physicians in Chronic Diseases in India.
* PHD Chambers award for Excellence in Skill Development 2015
* FICCI Health Care Excellence award 2015 in skill development category during FICCI Heal 2015.
* ASSOCHAM commendation certificate and award under the category of skill development as BEST NGO in Skill development 2015-16
* Diabetes Excellence award for community service 2016 by Apollo Sugar Clinics
* Finalist in the BMJ India award for Excellence in Medical education 2014

### Special Interests

Clinical Cardiology and Cardiovascular Epidemiology

### ****Special Assignment****

* Cardiologist to Prime Minister of India from Oct.1994 till May 1996.
* Personal Physician to Prime Minister of India during the periods 17-12-96 to 21-5-1997. This entailed both clinical and administrative duties.

**Major Contributions to Science**

During my training in Cardiology at the Department of Cardiology, I was intrigued by the lower age of onset of CVD among Indians and became keen to explore the mechanistic causes and the potential of preventive and low-cost therapeutic solutions to combat this huge public health challenge. Two large epidemiological studies in my early career in the 90’s, highlighted the stark contrast in the dynamics of CVD and its risk factors in urban (Delhi) and rural (Haryana) and the unique epidemiology of CVD risk factors in industrial populations. The two major papers emanating from these studies have been cited extensively. Subsequently, I participated in or led several major international and national research studies including the INTERHEART Study and its precursor, the ICMR funded case -control study of acute myocardial infarction. These two landmark studies unravelled and identified the commonly-cited risk factors for acute myocardial infarction in the South Asians. Subsequently I have participated in a number of analyses and publications that came from this study, and in particular, development of the INTERHEART Risk Score.

I have been an active investigator of the New Delhi Birth Cohort that unravelled the crucial role of the life course approach in determining adult-onset CVD and risk factors in the Indian population. Recognizing the importance of large population-based cohorts for understanding the complex play of social, economic, genetic, and environmental factors in shaping CVD dynamics in diverse population groups of India, I have led the design and conduct of the CARRS cohort (in the metropolis Delhi and Chennai – with funding from NIH), UDAY Cohort (in the intermediate cities of Sonipat and Vishakhapatnam) and the Solan Cohort (in the rural populace of Himachal Pradesh). These cohorts are well phenotyped and have provided several mechanistic insights into the high propensity for cardiovascular disease and diabetes in South Asians. For example, the CARRS cohort is currently studying the role of air pollution in increasing the longitudinal risk of CVD in Delhi and Chennai with funding from the prestigious Geo-Health Program of the Fogarty International Center of NIH. **Thus, two decades of above-described work has provided major insights into the epidemiology and mechanisms of CVD.** Recognizing my contribution, the global burden of disease group from the University of Washington invited me to lead the State-Level Disease Burden Study in India - on behalf of the Indian Council of Medical Research (ICMR), the Public Health Foundation of India (PHFI), Institute for Health Metrics and Evaluation (IHME) - which was published in Lancet Global Health last year.

**Exploring Practice patterns and designing interventions to improve quality of care**

I have been actively involved in several national and international registries and quality improvement programs. These include the OASIS, CREATE, DEMAT, KERALA ACS and the INTERCHF registries. These registries provided information on the prevailing patterns of treatment of ACS and heart failure and their relationship to in-hospital intermediate and long-term outcomes. In addition, it provided information on barriers, health beliefs and prescription patterns that needed improvements. Using the learnings from these registries, I collaboratively devised and tested several innovative models such as:

* Quality improvement for improving secondary prevention among ACS patients
* Polypill strategy to improving compliance and adherence to medications among patients with high CVD risk
* YogaCare model for incorporating the practice of Cardiac rehabilitation in India

**Translation Trials involving task shifting and mHealth in primary prevention of CVD**

I have led and developed several projects in translation research that evaluate the role of physician assistants/nurses/community health workers and m-health (“mobile” health) programs to prevent and manage hypertension, diabetes and cardiovascular diseases in several settings (community, primary, secondary and tertiary care settings) and states of India. In addition, he developed and led a simple and low cost comprehensive cardiovascular risk reduction programme at six large industrial worksites in India. This intervention has been cited as an example of a good worksite programme for evaluation in other settings by the World Heart Federation/World Economic Forum meeting in Davos in 2008 (http://www.world-heart-federation.org/?id=2391) and by the US Institute of Medicine (Promoting Cardiovascular Health in Developing Countries: A critical challenge to Achieve Global Health (2010); National Academics Press. PP: 255, 270).

These “real-life” studies have enormous impact on informing what is truly possible in real-world settings. Some of these trials have been scaled up.

**Contributions to Capacity building**

I have been an active mentor of doctoral, post‐doctoral and physician-scientists nationally and internationally. I have been supported by three major NIH grants ( the Fogarty scholars and fellows program, a D43 grant for interdisciplinary research training across the life span and the PH leader program) through the Fogarty International Centre to conduct these programs. Many of the trainees have become international leaders in the field of cardiovascular disease prevention. In collaboration with researchers from Harvard-Chan School of Public Health, I have been awarded the prestigious Geo Health grant to build capacity in air pollution research. In addition, I lead the globally acclaimed Primary Care Physician Program in several areas of Chronic Diseases. This program has trained more than 25000 primary care physicians in India and is now being scaled up to other countries including, Nepal, Myanmar, Rwanda and Kenya. This program has received the highest awards from all the Chambers of Commerce and the Quality Council of India. In the last ten years, I have raised grants worth more than 20 million US dollars for capacity building. In addition, I am an avid teacher. I was the lead editor of a two volume 1600 page comprehensive textbook titled “Tandon’s Text Book of Cardiology” which was published recently. This book is a comprehensive textbook for cardiologists in training and practice and emphasizes the unique need of Indian cardiologists.

**Contributions to Policy**

I am actively engaged in policy advocacy and have contributed to 4/11 modules on non-communicable diseases for health policymakers by WHO and actively participated as a resource person in their program for South Asia. This is an active role that I take in connecting our science with policy and practice so that the data we gather has more than just academic value. I have been instrumental in preparing the South Asia regional policy note for the World Bank on non-communicable diseases by extensively contributing to the sections on Nepal and India. Under my editorial leadership, the World Bank published Cardiovascular Disease volume of the latest Disease Control Priorities Project. This volume estimates the cost-effectiveness of available interventions and provides a summary to policymakers across the world to prioritize their investments.

**Administrative capabilities**

As Director of the Centre for Chronic Disease Control and Vice President at the Public Health Foundation of India, I perform several administrative roles. I lead a team of over 100 researchers involved in Chronic Disease research, training and capacity building. I am actively involved in developing policy at PHFI, ensure high standards of ethics in research and recognition of IP rights, and guide the budgeting process. I participate and represent the management at board meetings.

**Professional Experience**

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| --- | --- | --- | --- |
| **Name of Institution** | **Date of Joining** | **Date of Leaving**  | **Post held**  |
| All India Institute of Medical Sciences (AIIMS), New Delhi  | 01/01/87 | 31/12/89  | Junior Resident (Medicine) |
| AIIMS  | 15/2/90  | 1/5/90  |  Senior Resident (Cardiology) |
| AIIMS  | 15/7/90  | 14/7/93  | Senior Resident (Cardiology |
| AIIMS  | 25/7/93  |  25/12/93  | Research Associate (Cardiology) |
| Nizam's Institute of Medical Sciences, Hyderabad | 1/1/94  | 20/10/94 | Asst. Professor (Cardiology) |
| AIIMS  | 21/10/94  | 20/2/00  | Asst. Professor (Cardiology) |
| AIIMS | 21/2/02  | On Leave till July 2004  | Associate Professor (Cardiology) |
| Population Health Research Institute, McMaster Clinic, Hamilton General Hospital, Hamilton | 15/07/02 | 01/07/04 | Research Fellow and registered as an MSc (health research methodology) student. |
| AIIMS | 15/07/04 | 23/09/07 | Additional Professor (Cardiology) |
| Centre for Chronic Disease ControlPublic Health Foundation of India  | 01/10/0701/07/2014 | Till DateTill Date | Executive DirectorVice President (Research and Policy) and Director, Centre for Chronic Conditions and Injuries, Professor of Epidemiology  |

**Role as Executive Director IC Health (Initiative for Cardiovascular Health Research in the Developing Countries):2007-2013**

As Director of IC Health, I was involved in fundraising, development of new projects and coordinating existing projects. **IC Health, through its research facilitation process, established networks across 24 developing countries for CVD research.**

The major project completed in 2009 was a ***World Bank-funded macro-economics of Cardiovascular Diseases, which had three components: a) A macroeconomic modelling for the loss in GDP due to CVD’s in India, China, Argentina, Ukraine and Tanzania (published in PloS One 2011), b) A microeconomic assessment of CVD on individuals and families in 4 countries, and c) A business model for trans-fat reduction, tobacco control and Community health workers in the management of hypertension.***  As a member of the steering committee, I was involved in the administrative and financial management of IC Health projects.

The second major project was Global Cardiovascular Disease Research Survey: Phase II” funded by the Global Forum for Health Research (total **funding: USD 124,612**), completed in 2012. A bibliometric approach was developed for tracking publications in CVD across the world. This resulted in 3 important publications (JAHA 2015, Arq Bras Cardiol. 2015, Glob Heart. 2014 and PLoS One. 2013). ***This tool could be adapted to any country setting.***

**Departmental Activities as a Faculty Member at AIIMS**

As a faculty member at AIIMS, my routine activities included clinical care, teaching research and administrative work. I was a preceptor or guide for several DM (Cardiology) and MCH (Cardio thoracic Surgery), MD internal medicine and PhD Students.

The following were my routine departmental activities at AIIMS (October 1994-October 2007):

* Care of patients attending the cardiac clinic (12 hours/week) and patients admitted to the Intensive Cardiac Care Unit and Cardiology Ward (3 months in a year) of the Cardiothoracic Centre, AIIMS. New Delhi.
* Pre-and post-operative care to patients admitted under the Cardiothoracic and Vascular Surgery service of AIIMS Hospital, New Delhi (During on-call days)
* Specialist consultancy service for managing cardiac problems of patients admitted under other disciplines (During on call days).
* Consultant Cardiologist in Haemodynamic Laboratory (10 hours/week; performed more than 4000 cardiac catheterization procedures and interventional procedures) (Till 2002).
* Consultant Cardiologist in the Echocardiography Laboratory, Stress and Holter Laboratories (5 hours/week).
* Chief Investigator/Co-Investigator of the research projects of the Cardiovascular Epidemiology section of the department.
* Preceptor for D.M. (Cardiology) and M.Ch. (Cardiothoracic and Vascular Surgery) thesis projects. Guide for postgraduate thesis (research projects) by M.D. students in Internal Medicine. Guide for PhD students.
* Officer-in-charge of curriculum planning, teaching schedules and student evaluation programmes of the department of cardiology (1998 onwards). Teaching responsibilities included training of undergraduate (MBBS), postgraduate (M.D.), post-doctoral (DM) and nursing (B.Sc. Nursing) students. I was involved in selecting DM students (the equivalent of post-doctoral fellows) and in the organization and participation in continuing medical education programmes in cardiology (intra-mural and extra-mural).
* Officer-in-charge of cardiac biochemistry laboratory (2004-2005).
* Officer-in-charge of research and teaching (2005 July onwards).

***After AIIMS, I had a part-time clinical attachment as a Senior Consultant Cardiologist at Sitaram Bhartiya Institute of Science and Research (a large private tertiary care centre in Delhi) from 2007-2014. This included Outpatient services and Echocardiography.***

**Major Research Projects (completed)**

**National Funding:**

* **Co-investigator** in the ICMR Multi-centric study of the prevalence of coronary heart disease and coronary risk factors in India. **(1994)**
* **Co-investigator** in the Bharat Electronics Limited Coronary Heart Industrial Population Study (BEL-CHIPS). The study involved a cross-sectional survey of the prevalence of coronary heart disease and distribution of risk factors as well as a prospective follow-up **(1994 - 1999**)
* **Co-Investigator** in project HRIDAY (Health Related Information Dissemination Amongst Youth). This study involves an educational campaign to promote a healthy lifestyle amongst school children in Delhi and a research component to evaluate the efficacy of this programme. **(1994)**
* **Principal Investigator** (May 1999 onwards) of Indian Council of Medical Research Multicentre collaborative case-control study on coronary risk factors in acute myocardial infarction. (Funding agency: ICMR; **1997- 2002**)
* Co-Principal Investigator of the project titled “Establishment of Sentinel Surveillance in Indian Industries”. This project is funded by WHO and the government of India and aimed to establish a surveillance system in 10 industrial sites across India. (**2001- 2008**) (Total funding USD 3,50,000). ***The findings of this study were published in JACC in 2009, and the worksite program that was developed in this program has been cited as an example to emulate in the World Economic Forum (2008) and the IOM document “Promoting Cardiovascular Health in the Developing World A Critical Challenge to Achieve Global Health” in 2010***
* **Co-Principal investigator** in the South Delhi initiative project “Chronic disease detection and prevention programme for Malviya Nagar Residents, New Delhi”. An initiative of All India Institute of Medical Sciences and RWA- Malviya Nagar (Funding agency WHO: USD 20,000; **2004**)
* **Co-Principal Investigator** of Detection and Management of Coronary Heart Disease patients (DEMAT) sponsored by MSD Pharmaceuticals Ltd; (**2007-2008**)
* **Co-Principal Investigator** of Unilever funded study “Effect of Omega-3 fatty acids supplements and plant sterol-enriched food in dyslipidemic adults” (**December 2006-March 2008**)
* **Principal Investigator:** Cluster RCT to evaluate the efficacy of dietary intervention through Information Education Communication (IEC) tools with Angan Wadi Centres (AWCs) as the centre of knowledge dissemination for hypertension risk reduction **(Funding Agency: ICMR, Rs 6993474; approx. 140000 USD). Start/End date: January 2012-December 2017**

**International Funding**

* **Co-Investigator** of the British Heart Foundation Project: Maternal Nutrition, Foetal Growth and coronary risk factors in Young Indian Adults. **(Funding agency: British Heart Foundation; From 1998 – September 2002)**
* **Co-Investigator** of British Heart Foundation funded study Coronary Risk Factor Comparison in migrant and rural South Asians: the Indian limb of the Gujarat Heart study (in collaboration with University of Manchester, UK) **(Funding agency: British Heart Foundation; From 1998 –March 2002)**
* **Principal Investigator** (Delhi centre) of an International Registry of Acute Ischemic Coronary syndrome (OASIS Registry) **(Funding agency: Canadian Cardiovascular Collaboration; 1999- Dec 2002)**
* **Co-Investigator** of NIH funded India Health Study, which assessed the feasibility of establishing a cohort in Delhi, Trivandrum and Mumbai to study the dietary determinants of cancer. **(Funding agency: National Cancer Institute; NIH; 2006-2009)**
* **National Leader** of the International trial “Early ACS’ trial coordinated by the Duke Cardiovascular research institute, Durham, USA **(2007-2009)**
* **National Leader** of the International trial “Rocket AF" trial coordinated by the Duke Cardiovascular research institute, Durham, USA.
* **Co-investigator** of the Indian-migrant study. This study has collected phenotypic data on 6500 individuals, and by its sib-pair, index-spouse design is uniquely positioned to study the genetic and environmental influences of CVD risk factors **(Funding agency: Wellcome Trust)** **2004-2008**
* **Co-Investigator** in “Nutritional challenges, abdominal adiposity and type 2 diabetes in Indians”, a collaboration between London School of Hygiene and Tropical Medicine, National Institute of Nutrition (Hyderabad), St Johns Medical College Bangalore, the University of Bristol, All India Institute of Medical Sciences Delhi, CCDC Delhi, the Institute of Child Health, and the MRC Clinical Sciences Centre. (**2008-2011**) **(Funding agency: Wellcome Trust)**
* ***Regio*nal leader** and executive committee member of the STICH trial which compared bypass surgery and best medical therapy in patients with Heart failure **(Funding agency: National Heart Lung and Blood Institute; NIH: India funding 880000 USD; 2004-2011)**
* **Co-Investigator** “Environmental and genetic determinants of obesity and diabetes in India" **(Funding agency: Wellcome Trust: 2008-2011)**
* ***Principal Investigator of the NHLBI and United Health Group Strategic grant for Establishment of Center for prevention of Cardio-metabolic diseases in South Asians*** *(A collaborative project of Emory University, Public Health Foundation of India, AIIMS, Mohan's Diabetes Resaerch Centre and Aga Khan University, Karachi)* ***Funding: 4.2 million USD over 5 years. Start; June 2009. Completed September 2014***
* **Principal Investigator:**PHFI-Emory Partnership for Seamless, Thorough and Efficient Human Subjects Research; **Funding: Fogarty International Centre (NIH): USD 54170.** ***Start; September 2010. Completed September 2012***
* ***Co-Investigator, Simplified Cardiovascular Management Study (SIMCARD):*** This study evaluated low-cost treatment strategies in the management of Hypertension at Haryana in India and Tibet in China.***Funding NHLBI: 500000 USD: June 2012- June 2014***
* ***Co-National Leader and Co-applicant******for UMPIRE trial***(“Use of a Multidrug Pill In Reducing cardiovascular Events”) - A phase 3 - randomised controlled clinical trial of fixed-dose combination medication and usual care in patients at high risk of cardiovascular disease. Centrally coordinated by Imperial College London and funded by European Commission, Brussels.***Total Funding: 3 million Euro; India:880000 Euro (March 2010- March 2013)***
* ***Principal Investigator****:* A health system intervention project to reduce CVD in Solan District of Himachal Pradesh funded by the Medtronic Foundation*.* ***Funding 300000 USD for 2 years.***  *(****2011-2013****)*
* **Principal Investigator**: Genetic markers of lipids in Indians: a validation study of most relevant findings of genome-wide association studies **Funding: CSIR: Rs.3.3 million (660000 USD); 2011-2013**
* **Co-Investigator:** Prevention of type 2 diabetes in women with gestational diabetes using Health promotion techniques in urban India – a feasibility study: **Funding IDF: 65000 USD; 2013-2015**
* **National Leader and Steering Committee member**: INTERCHF (in collaboration with McMaster University): This was a large international registry of Heart Failure. **2014-2016**
* National Leader: STICHES trial (Surgical treatment for ischemic heart failure) **Funding NHLBI: 233550 USD for India. 2012-2016**
* **National Leader and Co-applicant** of the International trial CORONARY (“CABG off or on-pump revascularization study”) which aims to compare the 2 techniques – Off-pump CABG with on-pump CABG, and determine which technique reduces major clinical vascular events in the short term (30 days) and over a longer-term (5 years). Coordinated by Population Health Research Institute, McMaster University, Canada. **Funding for CCDC: 50000 USD; 2007-2014**
* **Principal Investigator**: Genetic Association Study of Polymorphisms related to Chronic Obstructive Pulmonary Disease COPD in North Indian Population (COPD Genetic Consortium study): **Funding agency: DBT: Rs. 8.5 million approx.: 170000 USD. 2012-2016**
* **Co-Investigator**: Acute Coronary Syndrome Quality Improvement in Kerala: Aims to improve the quality of care for ACS at secondary and tertiary care hospitals (**Funding: NHLBI; 800000 USD). 2011-2016**
* **Chief-Investigator-C:** Effectiveness, cost-effectiveness and acceptability of a simplified strategy using a low-dose combination 3-in-1 antihypertensive pill (“Triple Pill”) for the management of hypertension in urban India (with George Institute, India); (**Funding agency NHMRC, Australia; AU$ 1,067,559 ). 2012-2017**
* **Chief-Investigator-C:** Effectiveness of an innovative and multidisciplinary program addressing BP control in rural India (with George Institute, India; **Funding agency NHMRC, Australia. AU$ 930,259). 2012-2015**
* **Chief-Investigator-D:** Developing a salt reduction program for India (with George Institute, India, and PHFI; **Funding agency NHMRC, Australia). 2012-2014**
* **Network Co-investigator and Steering Committee** Member: SHARE Study (South Asian Hub for Advocacy, Research and Education on Mental Health) **Funding by National Institute of Mental Health. 2012-2017**
* **Principal Investigator**: Association of persistent organic pollutants with incident diabetes among urban Indian adults. This is a joint project of **Indian Council of Medical Research (ICMR) and NIDDK, NIH Funding: 120000 USD. Start/End date: 2016-02-22 - 2019-01-31**
* **Principal Investigator: mWELLCARE** - An integrated mHealth system for the prevention and care of chronic conditions: **Funding: Wellcome Trust; Rs. 102 million (1.2 million GBP). *In partnership with the London School of Hygiene and Tropical Medicine.* Start/End date: September 2014- September 2018**
* **Principal Investigator: Yoga-CaRe Trial**; A clinical trial of yoga-based cardiac rehabilitation program on cardiovascular health in India and mechanistic study in the UK. **Funding: ICMR, MRC-UK Combined funding approx. 1 million GBP *in partnership with London School of Hygiene and Tropical Medicine.* Start/End date: September 2014- August 2018**
* **Collaborator:** Txt2Heart pilot study: An international study to develop and pilot tailored text messages to improve adherence to medications in cardiovascular secondary prevention. ***In collaboration with LSHTM.* Start/End date: April 2016- March 2018**
* **Co-Principal Investigator of an NCI funded planning grant titled *“Planning a Regional Center of Research Excellence in Non-Communicable Diseases in India”* Funding: 289628 USD. Start/End date: 2016-09-21- 2019-08-31**
* **Principal Investigator (India):** Childhood and young adult predictors of myocardial structure and function at age 45 years in the New Delhi and Vellore Birth Cohorts, India. Funding: **British Heart Foundation; India Funding: approx. 500000 GBP. Start/End date: 2016/06/01 – 2019/05/31**
* **Principal Investigator (multi-PI program):*****Air pollution and health:*** GeoHealth hub research and capacity building (1U2RTW010108-01)**Funding: National Institute of Health; 3000000 USD**. **Start/End date: 2015/09/28 - 2020/07/31**
* **Co-Principal investigator**: UDAY (Comprehensive Diabetes Prevention and Management Program): A multi-component, multi-level, comprehensive intervention program to improve the prevention, detection and optimal management of diabetes. Funding:  **Eli Lilly and Company Foundation: USD 7.5 million. Start/End date: June 2012- December 2020**

**Ongoing Major Research Projects**

* **PI : GEOHealth Health Effects of Selected Environmental Exposomes Across the Life CourSe (HEALS)-India:**This study is an extension of the previous GeoHEALTH program which aimed to build scientific capacity in India to conduct high quality research and knowledge related to air pollution that can be translated into policy improvements. The current grant extends the study of air pollution across the life span using multiple cohorts ranging from birth to elderly cohorts. **Funding: USD 3 million. Funder: NIH/FIC/NIEHS (U01TW010097). Start/End date: 06/15/22- 02/28/27.**
* **PI : NIHR Global Health Centre;** this large project proposes to build capacity in the area of multimorbidity is institutions with limited capacity in research. This is a joint centre funded to University of Leicester and the Public Health Foundation of India. **Funding: 10 million GBP (USD :12852000). Funder: National Institute of Health Research, UK. Start/End date: 10/01/22- 09/30/27.**
* **Co-Investigator:** The Precision Cardiovascular Diseases Phenotyping and Pathophysiological Pathways is a PO1 grant with multiple studies to identify early markers of atherosclerosis in South Asian Indians in which I will lead one of the project cores. **Funding: 11 million USD. Funder: NHLBI. Start/End date: 01/03/2022- 28/02/2027**
* **PI:** Effectiveness of Yoga based Cardiac Rehabilitation (Yoga-CaRe) in Heart Failure: A Randomized Controlled Clinical Trial. **Funder: Indian Council of Medical Research (ICMR); Funding: INR 50 million (USD 650000 USD); Start/End date: March 2022-February 2026**
* **PI: Digisahayam – Star Arogya Digi Seva.** This is a CSR project providing telemedicine services to three underserved areas in Tamil Nadu. In this project we are evaluating the role of telemedicine in improving care for NCDs. **Funder: Star Health and Allied Insurance Funding: INR 2,43,09,147 (USD 311000); Start/End date: Dec 2020 – Mar 2022**
* **PI (India): QuEST India Center-** Generating evidence to transform health systems. The primary goal of this center is to build the evidence base to support transformation to high quality health systems by improving measurement, testing solutions, and creating generalizable knowledge in partnership with researchers and changemakers in low- and middle-income countries. Funding: Bill & Melinda Gates Foundation and the Swiss Agency for Development and Cooperation through the Harvard TH Chan School of Public Health, USA. **Funding: USD 525,000**

**Start/End date: 01/01/2022 to 31/12/2024.**

* **PI: Treatment Optimisation for blood Pressure with Single-Pill combinations in India (TOPSPIN):** A multi-centre, individual randomised single-blind, parallel group, three-armed superiority trial. The primary objective is to compare the efficacy of three single pill combinations (SPCs) of two anti-hypertensive agents on 24-hour ambulatory systolic blood pressure (ASBP) among individuals with hypertension in India. **Funder: Imperial College London and Servier Pharmaceutical; Funding: 450000 GBP (USD 577000). Start/End date: Nov 2021 – May 2023**
* **PI: World Heart Federation COVID-19 and Cardiovascular Disease Survey (Extension study and Long COVID Study);** This global study aims to describe long-term cardiovascular outcomes and associated cardiovascular risk factors among patients hospitalized with COVID-19. **Funder: World Heart Federation (WHF), World Health Organization (WHO), and Sanofi Pasteur; Funding: 500000 USD. Start/End date: April 2020 - Dec 2022.**
* **Co-investigator : CARDINNATE:** Variation in innate immune activation and cardiovascular disease risk as drivers of immune pathology in COVID19 outcome in South Asians in UK and India: The primary objective of this project is to determine the inter-relationship between immune responses, pre-existing CVD and functional outcome in South Asians who have recovered from COVID-19 in the United Kingdom versus India.**; Funder: Department of Biotechnology (DBT), India. Funding: INR 27400000 (USD 3600000). Start/End date: November 2021 – May 2023;**
* **Co-applicant/Co-Investigator:** Sex and menopausal differences in iron status/biomarkers as potential causative factor contributing to sex differences in cardio metabolic disease (IRONNES). **Joint funding by the DBT India and Swiss National Science Foundation. Funding: USD 750000; Start/End date: 01/07/21 to 30/06/25**
* **Co-applicant/Co-Investigator:** Promoting uptake of low sodium iodized salt by rural and urban households in India (PLURAL). **Funder: Resolve to Save Lives, USA; Funding: USD 200000; Start/End date: 01/09/21 to 31/03/23**
* **Co-applicant/Co-Investigator: Sustainable and Healthy Food Systems (SHEFS): It is one of four major interdisciplinary research partnerships in the areas of global food systems and urbanization awarded by the Wellcome Trust in 2017. Funding: 4.5 million GBP (USD 5.8 million). Start/End date: May 2017 – April 2022**
* **Co-Principal Investigator**:Worksite lifestyle program for reducing diabetes and cardiovascular risk in India (1R01HL125442-01A1; National Heart, Lung, and Blood Institute) **Funding: NHLBI; 1500000 USD. Start/End date: 2015-09-01-** **2022-05-31**
* **Principal Investigator: A cluster randomized trial of an mHealth integrated model of hypertension, diabetes and antenatal care in primary care settings in India and Nepal; Funding: DBT-DFID-ESRC-MRC through their Global Research Programme INR 50,000,000 (USD 650000) Start/End date: April 2019- March 2022**
* **Co-Investigator**: Integrated Tracking, Referral, and Algorithmic Management (I-TREC) System for Hypertension and Diabetes. **Funder: NHLBI, National Institutes of Health, USA.** **Funding; USD 4,34,304.Start/End date: September 2017-May 2022**

**Capacity Building grants (Completed):**

* **PI:** Certificate Course in Cardiovascular Disease and Stroke: Builds capacity of primary care physicians across India in a standardized fashion. Funder: Sun Pharma Laboratories Ltd. Funding: INR 7,05,35,228. **Start/End date:** March 2017 – Sept 2019
* **Co-Investigator: Research capacity building** and establishment of networks in 24 developing countries (Global Forum for Health Research & World Bank); **2007-2014**
* **International Director: Fogarty International Clinical Research Training Site (2009-2012):** Mentored 18 international and national scholars and fellows. They have done exceedingly well, and the achievements include high impact publications, obtaining prestigious K awards, R00 grants, fully funded scholarship for a PhD at Oxford University, among others.
* **Coordinator:** Annual teaching seminar on CVD Epidemiology and Research Methods (**2009-2013**) at Centre for Chronic Disease Control
* **Mentor:** Effect of Docosa-hexaenoic acid (DHA) supplementation during pregnancy on newborn outcomes in India – the DHANI RCT). Funding Agency: DBT
* **Co-Investigator and EC member (2009-2014):** Millennium Promise Award from the NIH through the prestigious D-43 Grant Mechanism of Fogarty International Center. The partners in this program were the Center for Chronic Disease Control (CCDC); Public Health Foundation of India (PHFI); EMORY University, Atlanta, USA; All India Institute of Medical Sciences, New Delhi (AIIMS) and Madras Diabetic Research Foundation (MDRF). This program provided an interdisciplinary training program with a focus on the epidemiology and prevention of NCDs across the life-course in cross-connecting subject areas and provided short term training to 8 junior faculty researchers & long-term training to 10 post-doctoral fellows. The total grant was 1.1 Million USD over 5 years. 7 junior faculty and 4 post-doctoral fellows completed their training under this scheme and 6 post-doctoral fellows are currently in training. These trainees have been highly successful by publishing nearly 100 papers over 4 years and generating nearly 1.5 million dollars of grant.
* **Program Director (2011-2016):** Public Health Leadership and Development Academy for NCDs, Public Health Foundation of India. The PH Leader Program is a joint program of Emory University, PHFI and National Institute of Public Health, Mexico funded by Fogarty International Centre.
* **Program Director:** Wellcome Trust Research Capacity Building Project at PHFI in **Collaboration with London School of Hygiene and Tropical Medicine . End date: November 2018**
* **Senior Program Director (Primary care Physician Training Programs):** I am Senior program Director of several primary physician programs. These include Certificate courses in diabetes, gestational diabetes, diabetic retinopathy, hypertension, thyroid disorders, chronic obstructive lung diseases and others. Through these, we have reached out to more than 25000 primary and secondary care physicians all across India. I was the India lead for the course on Health Emergencies in Large Populations (HELP) conducted in collaboration with the International Committee of the Red Cross from 2015-2017. These courses have received several accolades and awards and have been adopted by several state governments of India. Some of these courses will be rolled out in several African countries (the Hypertension course through the Pan African Society of Cardiology in Africa and Pakistan by Pakistan Society of hypertension; the diabetes training programs in Nepal, Myanmar and East Africa.

***These programs have variable start times, and the last program to end will be in March 2022***

**Director and Co-Program Investigator –** Certificate Course in Evidence-Based Management of Diabetic Retinopathy- CCDR funded The Queen Elizabeth Diamond Jubilee Trust (QEDJT); **in collaboration with the London School of Hygiene and Tropical Medicine. End date: December 2018**

**Ongoing:**

* **Co-PI and Program Director: Cardiology Master Class:** Cardiology Seminars conducted in a CPC fashion for cardiologists in training. **Funder: Sun Pharma Laboratories Ltd. Funding: INR 61,48,428 (USD 80000). Start/End date: April 2021 – March 2022**
* **Co-Investigator: Endocrinology Master Class:** Endocrinology Seminars conducted in a CPC fashion for cardiologists in training. **Funder: Sun Pharma Laboratories Ltd. Funding: INR 38,55,894. Start/End date: July 2021 – June 2022**
* **Mentor (Early Career Fellowship: Dr. Priti Gupta):** Epidemiology of multimorbidity in Indian population ; the primary aim is to determine the incidence and predictors of multimorbidity, and study the common clusters of conditions, their determinants, longitudinal trends, as well as the health and economic impacts on the individual. **Funder: DBT India and Wellcome Trust India Alliance (India Alliance)**; **Amount: INR 18,951,900 (USD 250000); Start/End date**: **01/09/2021 to 31/08/2026**
* **Co-Investigator and Program Director:** COllaborative research, implementation, And LEadership training to address chronic Conditions across the lifecoursE (COALESCE). The primary aim is to address critical shortages in research capacity in India and Ethiopia, two large LMICs in the midst of epidemiologic transition. We will train mentors, post-doctoral investigators, and practitioners involved in studying and addressing chronic physical and mental health conditions. **Funder: National Institutes of Health, USA;** **Amount: USD 3,67,280; Start/End date: 01/10/2019 to 31/05/2024.**
* **Faculty:** Ten-Day International Teaching Seminar on Cardiovascular Disease Epidemiology and Prevention organized by the International Society of Cardiovascular Epidemiology and Prevention
* **Network Investigator:** R25 (capacity building project in collaboration with a consortium of US Universities: Emory, Vanderbilt, Cornel and Duke Universities)

**Programs:**

* **Principal Investigator:** WHO Collaborating Centre for Surveillance, Capacity Building and Translational Research in Cardio-metabolic Diseases (WHOCC No. IND-124) from 2014 onwards.
* **Principal Investigator:** Centre of Excellence in Clinical Research Funded by Department of Bio Technology India from 2015 onwards. **This was a 5-year program till 2020.**

***Mentorship:***

**In a span of 20 years, I have mentored approximately 50 pre-doctoral, post-doctoral and junior faculty in cardiovascular disease research and epidemiology. Several of them have become leaders in their own right. Their research spans areas relevant to India, including tobacco control, gathering evidence for salt reduction, dietary interventions and health system interventions.**

#### Memberships

* **Member Scientific Advisory Board of the Indian Council of Medical Research**
* **Chair of CVD group in India for estimating State Level Disease Burden**
* **Member of the Diabetes group in India for estimating State Level Disease Burden**
* Special Invitee in advisory capacity to the steering committee overseeing the National Programme for Prevention of Cardiovascular diseases and Diabetes in 2007 and 2008 (this program is a major program of the Ministry of Health, Government of India)
* Member Capacity Building Sub Committee of the National Programme for Prevention of Cardiovascular diseases and Diabetes 2007
* Global Burden of Disease Study on the analysis of the burden of Ischemic Heart Disease as part the Global Burden of Diseases, Injuries, and Risk Factors for 2005 as Co-author
* Member, Scientific Advisory Committee of Initiative for Cardiovascular Health Research in the Developing Countries (2006-2013)
* Member of Surgical Treatment for Ischemic Heart Failure International Steering Committee
* Member of the Trilogy ACS Executive Committee
* Member of Oxford Health Alliance
* Member, Cardiological Society of India
* Founder member of Health-Related Information Dissemination Among Youth (HRIDAY) a Non-Government organization of health professionals and social scientists engaged in activities aiming to promote health awareness and informed health activism among school and college students in India which in turn assist the World Health Organization (WHO) and the Ministry of Health and Family welfare (Government of India) in various health promotion programmes.
* Member, Association of Physicians of India
* Member, of scientific Council of the section on Epidemiology and prevention of the World Heart Federation from 1997 onwards.
* Member of Indian Council of Medical Research’s Project Review Committee on Cardiology
* Member of Indian Council of Medical Research’s Advisory Committee on Hypertension.
* Founder member and Joint Secretary of Centre for Chronic Disease Control.

Editorial/Review Work for Medical Journals

* **Member, Editorial Board: Nature Cardiology Reviews ( June 2018 onwards)**
* **Member Editorial Board: JAMA Cardiology ( 2017 onwards)**
* **Associate Editor, International Journal of Epidemiology Jan 2017-June 2018**
* **Editor, Cardiovascular and Respiratory Diseases Volume, Disease Control Priorities**

**in Developing Countries (DCP3).**

* **Co-Editor: Global Heart which is a World Heart Federation Journal (2011, 2012)**
* **Editor: World bank-PHFI policy note series on NCDs.**
* **Guest Editor** for Indian Journal of Medical Research (IJMR) for the Special Issue on Cardiovascular Diseases (December 2010).
* **Guest Editor** for Current Science for the Special Issue on Cardiovascular Diseases, published on August 2009.
* Associate Editor, Journal of Epidemiology and Community Health (JECH); a BMJ journal (2008-2011)
* Member Editorial Board (2002-2005) Indian Heart Journal and 2009 onwards.
* Member Editorial Board: Open Medicine till 2009.
* Member Editorial Board: Clinical Science from 2009.
* Referee for Scientific paper assessment: Lancet, International Journal of Cardiology, Circulation, Atherosclerosis, American Heart Journal, Plos Medicine, National Medical Journal of India, Indian Heart Journal, Journal of Hypertension, Journal of the National Academy of Medical Sciences, Indian journal of Medical Research.

### Advisory Committee of PROCOR

* National co-ordinator of PROCOR, an Electronic Network on CVD prevention in Developing Countries, launched by the Lown Foundation ( 1999-2002).
* Coordinator of AmiCOR India (1999-2002), which is a non-profit autonomous organization that aims to advance health research and augment dissemination of information relevant to policies and programmes aimed at combating the emerging epidemic cardiovascular disease in India. AmiCOR.

Assistance to National and International Agencies

* World Health Organisation (WHO)
* Government of India
* Government of Karnataka
* Government of Kerala
* World Bank
* Wellcome Trust

SAARC Cardiological Society Guidelines Committee

Co-regional co-ordinator for the SAARC (South Asian Association for Regional Cooperation): Guidelines Committee on prevention of cardiovascular diseases in South Asians. The Guidelines were presented in the SAARC biennial conference held at New Delhi from 10th – 13th February 2002

**Extra-Mural Academic Contributions**

* Editorial Advisor to the Indian Heart Journal on Cardiovascular Epidemiology
* Technical expert for review of ICMR (Indian Council of Medical Research) projects in Cardiology.

**Other Contributions**

* Member of the Core Group that developed a web based dietary guide both for health individuals as well as for patients <http://www.foodpyramidindia.org/credits.html>
* Co-established the network of Indian Industries for surveillance of cardiovascular disease.
* Significantly contributed to the report on National Consultation on diet and physical activity
* Developed guidelines for medical officers on prevention and management of cardiovascular diseases and diabetes to be implemented at primary and community health centers in India. This was done through a consensus workshop under the National programme for Prevention of Cardiovascular diseases, Diabetes and Stroke.

LIST OF PAPERS PUBLISHED / ABSTRACTED IN JOURNALS

### Publications and reviews in peer reviewed indexed journals: (>575 publications, 6 books/monographs and 17 book chapters; h index: 100, i10 index: 360; mean RCR (icite):9.2; Citations: 130000+)

1. Lin Q, Ye T, Ye P, Borghi C, Cro S, Damasceno A, Khan N, Nilsson PM, ***Prabhakaran D,*** Ramirez A, Schlaich MP, Schutte AE, Stergiou G, Weber MA, Beaney T, Poulter NR. Hypertension in stroke survivors and associations with national premature stroke mortality: data for 2·5 million participants from multinational screening campaigns. Lancet Glob Health. 2022 Aug;10(8): e1141-e1149. doi: 10.1016/S2214-109X (22)00238-8. PMID: 35839813.
2. Perel P, Scarlatescu O, Avezum A, Chazal RA, Creager MA, Narula J, Pineiro D, ***Prabhakaran D,*** Wyss F, Yong H, Zühlke L, Eisele JL, Pinto F. The World Heart Observatory: Harnessing the Power of Data for Cardiovascular Health. Glob Heart. 2022 Jun 6;17(1):36. doi: 10.5334/gh.1126. PMID: 35837359; PMCID: PMC9187253.
3. ***Prabhakaran D,*** Singh K, Kondal D, Raspail L, Mohan B, Kato T, Sarrafzadegan N, Talukder SH, Akter S, Amin MR, Goma F, Gomez-Mesa J, Ntusi N, Inofomoh F, Deora S, Philippov E, Svarovskaya A, Konradi A, Puentes A, Ogah OS, Stanetic B, Issa A, Thienemann F, Juzar D, Zaidel E, Sheikh S, Ojji D, Lam CSP, Ge J, Banerjee A, Newby LK, Ribeiro ALP, Gidding S, Pinto F, Perel P, Sliwa K; WHF COVID-19 Study Collaborators. Cardiovascular Risk Factors and Clinical Outcomes among Patients Hospitalized with COVID-19: Findings from the World Heart Federation COVID-19 Study. Glob Heart. 2022 Jun 15;17(1):40. doi: 10.5334/gh.1128. PMID: 35837356; PMCID: PMC9205371.
4. Mohan B, Singh B, Singh K, Naik N, Roy A, Goyal A, SIngh G, Aggarwal S, Saini A, Tandon R, Chhabra ST, Aslam N, Wander GS, ***Prabhakaran D.*** Impact of a nurse-led teleconsultation strategy for cardiovascular disease management during COVID-19 pandemic in India: a pyramid model feasibility study. BMJ Open. 2022 Jul 7;12(7): e056408. doi: 10.1136/bmjopen-2021-056408. PMID: 35798525; PMCID: PMC9263376.
5. Heo S, Son JY, Lim CC, Fong KC, Choi HM, Hernandez-Ramirez RU, Nyhan K, Dhillon PK, Kapoor S, ***Prabhakaran D,*** Spiegelman D, Bell ML. Effect modification by sex for associations of fine particulate matter (PM2.5) with cardiovascular mortality, hospitalization, and emergency room visits: systematic review and meta-analysis. Environ Res Lett. 2022 May;17(5):053006. doi: 10.1088/1748-9326/ac6cfb. Epub 2022 May 16. PMID: 35662857; PMCID: PMC9162078.
6. Gupta P, Patel SA, Sharma H, Jarhyan P, Sharma R, ***Prabhakaran D,*** Tandon N, Mohan S. Burden, patterns, and impact of multimorbidity in North India: findings from a rural population-based study. BMC Public Health. 2022 Jun 2;22(1):1101. doi: 10.1186/s12889-022-13495-0. PMID: 35655207; PMCID: PMC9159928.
7. Jindal D, Sharma H, Gupta Y, Ajay VS, Roy A, Sharma R, Ali M, Jarhyan P, Gupta P, Srinivasapura Venkateshmurthy N, Ali MK, Narayan KMV, ***Prabhakaran D,*** Weber MB, Mohan S, Patel SA, Tandon N. Improving care for hypertension and diabetes in india by addition of clinical decision support system and task shifting in the national NCD program: I-TREC model of care. BMC Health Serv Res. 2022 May 23;22(1):688. doi: 10.1186/s12913-022-08025-y. PMID: 35606762; PMCID: PMC9125907.
8. Mishra P, Harris T, Greenfield SM, Hamer M, Lewis SA, Singh K, Nair R, Mukherjee S, Manjunath NK, Tandon N, Kinra S, ***Prabhakaran D,*** Chattopadhyay K. Feasibility Trial of Yoga Programme for Type 2 Diabetes Prevention (YOGA-DP) among High-Risk People in India: A Qualitative Study to Explore Participants' Trial- and Intervention-Related Barriers and Facilitators. Int J Environ Res Public Health. 2022 May 1;19(9):5514. doi: 10.3390/ijerph19095514. PMID: 35564908; PMCID: PMC9099572.
9. Khandelwal S, Kondal D, Chakravarti AR, Dutta S, Banerjee B, Chaudhry M, Patil K, Swamy MK, Ramakrishnan U, ***Prabhakaran D,*** Tandon N, Stein AD. Infant Young Child Feeding Practices in an Indian Maternal-Childbirth Cohort in Belagavi, Karnataka. Int J Environ Res Public Health. 2022 Apr 22;19(9):5088. doi: 10.3390/ijerph19095088. PMID: 35564483; PMCID: PMC9104747.
10. Sharma G, Sharma P, Mohan B, Agarwal A, Lama S, Jat M, Biju KC, Upadhyay P, Gupta A, Mohanty S, Miglani M, Sharma S, Sagar R, ***Prabhakaran D,*** Pandey RM. Prevalence of psychological outcomes and its associated factors in healthcare personnel working during COVID-19 outbreak in India. Indian J Psychiatry. 2022 Mar-Apr;64(2):151-158. doi: 10.4103/indianjpsychiatry.indianjpsychiatry\_60\_21. Epub 2022 Mar 24. PMID: 35494318; PMCID: PMC9045337.
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12. Gnanenthiran SR, Wang N, Di Tanna GL, Salam A, Webster R, de Silva HA, Guggilla R, Jan S, Maulik PK, Naik N, Selak V, Thom S, ***Prabhakaran D,*** Schutte AE, Patel A, Rodgers A; TRIUMPH Study Group. Association of Low-Dose Triple Combination Therapy vs Usual Care with Time at Target Blood Pressure: A Secondary Analysis of the TRIUMPH Randomized Clinical Trial. JAMA Cardiol. 2022 Jun 1;7(6):645-650. doi: 10.1001/jamacardio.2022.0471. Erratum in: JAMA Cardiol. 2022 Jun 1;7(6):658. PMID: 35416909; PMCID: PMC9008553.
13. Praveen PA, Anandakumar A, Singh K, ***Prabhakaran D,*** Venkat Narayan KM, Mohan V, Tandon N. Cardiovascular disease risk profile of Indian young adults with type 1 diabetes compared to general population - A sub-study from the Young Diabetes Registry (YDR), India. Diabetes Res Clin Pract. 2022 May; 187:109863. doi: 10.1016/j.diabres.2022.109863. Epub 2022 Apr 4. PMID: 35381291.
14. Jarhyan P, Hutchinson A, Khaw D, ***Prabhakaran D,*** Mohan S. Prevalence of chronic obstructive pulmonary disease and chronic bronchitis in eight countries: a systematic review and meta-analysis. Bull World Health Organ. 2022 Mar 1;100(3):216-230. doi: 10.2471/BLT.21.286870. Epub 2022 Jan 19. PMID: 35261410; PMCID: PMC8886252.
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17. Geldsetzer P, De Neve JW, Mohan V, ***Prabhakaran D,*** Roy A, Tandon N, Davies JI, Vollmer S, Bärnighausen T, Prenissl J. Health System Performance for Multimorbid Cardiometabolic Disease in India: A Population-Based Cross-Sectional Study. Glob Heart. 2022 Jan 31;17(1):7. doi: 10.5334/gh.1056. PMID: 35174048; PMCID: PMC8815445.
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21. Rao S, Jamal T, Khan MS, Michos E, Navar AM, Wang TJ, Greene S, ***Prabhakaran D,*** Khera A, Pandey A. Association of polypill therapy with cardiovascular outcomes, mortality, and adherence: A systematic review and meta-analysis of randomized controlled trials. Prog Cardiovasc Dis. 2022 Jan 31:S0033-0620(22)00005-6. doi: 10.1016/j.pcad.2022.01.005. Epub ahead of print. PMID: 35114251.
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9. Sengupta PP, Mishra S, ***Prabhakaran D***: Role of vasodilators in valvular regurgitant lesions – Cardio update: 1998: 5(2):39-46
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**Contributions to Community and National Programmes**

I was part of the group that planned and prepared the protocol for the national level pilot project on cardiovascular disease to be implemented by the Ministry of Health, Government of India.

As a co-investigator of the HRIDAY-CATCH programme, I was involved in preparation of health education material, in anti-tobacco campaign (through SHAN-Student Health Action network) and other health promotional activities.

Was one of the co-organizers of the Public exhibition on ‘Healthy Life Style” as part of the Institute Day Celebrations at All India Institute of Medical Sciences, New Delhi in 1997.

I am assisting the Government of India in the implementation of the national programme for Prevention of Cardiovascular diseases, cancer, diabetes and Stroke as and when requested by the GOI.

**Professional Memberships**

Association of Physicians of India

Cardiological Society of India

Council for epidemiology (World Heart Federation)

International Society of Hypertension

Royal College of Physicians ( London)

 **Selected Conferences and Invited Talks**

* Lecture on Air Pollution and CVD at the Pacific Basin Conference on Environmental Health in Delhi on 16/11/2017.
* **Keynote speaker at the Fogarty @ 50 event in AHA 2017, Anaheim, CA to celebrate the 50th year of Fogarty International. Title of the topic “Global Cardiovascular research and training to achieve global heart health goals” on 14/11/2017**
* Invited speaker at AHA 2017, Anaheim, CA: Two talks titled “Interventions to Control CVD in Low Resource Settings” and “Cardiovascular Disease in South Asians’ on 12th and 13th November 2017 respectively
* **Public Colloquium at Stanford University titled “Strategies and tactics to address the chronic disease burden in India” on 8/11/2017**
* **Grand Rounds at the Department of Cardiology, University of Washington, Seattle. Gave a talk titled “The determinants, dynamics and dimensions of cardiovascular disease in Indians/South Asians” in Seattle, USA on 6th October 2017**
* Invited talk at the British Irish Society of Hypertension titled “Public Health Foundation of India: An Educational Collaboration with BIHS” on 12/09/2017 at Glasgow, UK
* Plenary talk at the Health Conclave Organized by several organizations including the Association of Private Hospitals of India titled “Innovations and Technology to reduce the burden of NCDs in India: What can we do ?” on 11/08/2017
* **Grand Rounds at the Department of Medicine, University of British Columbia. Gave a talk titled “Why do we need a life course approach for the prevention of CVD” in Vancouver, BC, Canada on 18th May 2017**
* Invited talk to Canada India Network Initiative at Vancouver, BC titled ‘Determinants, Dynamics and Dimensions of Cardiovascular disease among Indians” on 19th May 2017
* **Talk to policy makers titled “Landscaping of Non-communicable diseases (NCDs) in India and how technology can help prevent and manage NCDs” on 31/03/2017**
* **Uma Rani Banarjea Oration at the 68th Annual Cardiological Society of India meet at Kochi 2016**
* Invited talk on **“Polypill Strategy to Improve Adherence”** at the International Society of Hypertension meeting at Seoul, South Korea; September 2016
* Invited symposia talk on “Hypertension in developing countries” at the European Society of Cardiology, Rome August 2016
* Several talks at the World Congress of Cardiology, Mexico City 2016
	+ Hypertension in low and middle-income countries
	+ eHealth for decision support (point of care diagnosis and risk stratification)
	+ Implementing the secondary prevention roadmap, the India experience
	+ The WHF Roadmaps: activities, recommendations and next steps
	+ Registries in HIC and LMICs
	+ What can new technologies (iPhones/ Apps/ Apple watches) offer for CVD research?
* Invited talk on ISH activities in India: Past present and Future: India activities at the Hypertension Summit organized by the Japanese Society of Hypertension, Kyoto, Japan, May 2016
* **Grand rounds in the departments of public health, Epidemiology, preventive Medicine or Cardiology (from 2010 onwards):**
	+ **University of Manchester ( Manchester, UK)**
	+ **CAITE lecture, University of Bristol (Bristol, UK),**
	+ **St. Mary’s Hospital, Imperial College (London, UK),**
	+ **University of Glasgow (Glasgow, UK),**
	+ **Rollins School of Public Health, Emory University (Atlanta, USA),**
	+ **North Western University (Chicago, USA),**
	+ **University of Michigan (Ann Arbor, USA),**
	+ **University of California (Irvine, USA),**
	+ **University of Canberra (Canberra, Australia),**
	+ **University of Melbourne (Melbourne, Australia),**
	+ **Ohio State University (Ohio, USA)**.
	+ **University of British Columbia ( Vancouver, Canada)**
	+ **University of Washington (Seattle, USA)**
	+ **Stanford University ( San Francisco, USA)**
	+ **Population Health Research Institute ( PHRI), McMaster University ( Hamilton, Canada)**
	+ **Simon Fraser University ( Vancouver, Canada)**
	+ **University of Texas-South Western ( Dallas, USA)**
	+ **University of Andes ( Bogota, Columbia)**
* World Bank, Washington (video streamed across other offices): A talk on NCD in developing countries in 2014
* **Faculty in the annual Ten Day International Teaching Seminar on Cardiovascular Epidemiology:**
	+ **2009 (Hyderabad, India);**
	+ **2012 (Cape Town);**
	+ **2013 (Seoul, South Korea);**
	+ **2014 (Coorg, India);**
	+ **2015 (Nadi, Fiji),**
	+ **2017 (Kuala Lumpur, Malaysia)**
	+ **2018 (Goa)**
* **Faculty, The Emerging Leaders Programme (2014, 2015) - a program by the World Heart Federation to form and develop a long-term cadre of experts who collaborate, research, and act to reduce premature mortality from cardiovascular disease (CVD) globally by at least 25% by 2025 as targeted by the World Heart Federation and World Health Organization ('25 x 25'):**
	+ **2014 (Hamilton, ON, Canada)**
	+ **2015 (Lima, Peru)**
* **Faculty, Lown Scholars Program** – A program established in honour of Dr. Bernard Lown, a world-renowned cardiologist and activist, whose career has advanced public health globally. The Program is designed to create an international cadre of talented health professionals in low and middle-income countries (LMICs) who will use public health tools and strategies to prevent cardiovascular disease and promote cardiac health **(2011-2015; New Delhi)**
* **Faculty ASCEND: The Asian Collaboration for Excellence in Non-Communicable Disease (ASCEND) Research Network provides early career researchers with the opportunity to develop and enhance their research skills and careers in the prevention and management of non-communicable diseases in the Asian region**.
	+ **2015 (Delhi, India)**
	+ **2016 (Melbourne, Australia)**
	+ **2017 (Vellore, India)**
* **Faculty, Public Health Leader (2012-2016), a yearly, three-week, intensive multi-disciplinary Summer Academy in Atlanta. During this time, the trainees will participate in distance learning modules that will include teamwork exercises to foster international collaborations and provide peer learning opportunities. Participants benefit not only from their experience with in-country mentors, but also become a part of a global network of peers and mentors with whom they could exchange ideas and share knowledge.**
* Annual Conferences of Cardiology Society of India every year from 1991. (Except 2002 and 2003.) **Delivered lectures in symposia every year from 2005, plenary talks in 2014, 2015, 2017 and delivered named orations in 2009 and 2016.**
* Participated in the Scientific Programme of the Sixth International Conference for Preventive Cardiology held in May 2005 at Brazil, April 2012 at Dubai , May 2014 at Melbourne and May 2016 at Mexico organized by World Heart Federation’s Scientific Council on Epidemiology & Prevention and delivered lectures and chaired several sessions.
* Invited Speaker at the ACC meeting 2012 at Chicago
* Developed the Scientific programme for the American Heart Association Meeting (AHA) at Orlando Florida in November 2011,2012, 2013. Delivered several Lectures including a plenary in 2011 and 2012.
* ESC annual meetings, 2002, 2006, 2007, 2016
* South Asian Society of Atherosclerosis (SASAT) – 2004, delivered lecture
* International conference on Interventional Cardiology (delivered a lecture in the plenary) Mumbai, 2004
* **Multiple talks as WHO consultant and temporary advisor in developing capacity strengthening modules towards prevention and control of NCDs in the South East Asian Region: Colombo, October 2005.**
* **Multiple talks as WHO Consultant and resource Person in the “capacity strengthening meetings and training of programme managers” in the following locations and countries: 1. Kathmandu, Nepal, March 2007, 2. Male, Maldives; July 2007 and 3. Paro, Bhutan October 2007**
* **Speaker: WHO South East Asia Network meeting, Phuket 2007 as temporary advisor**
* **Speaker at the World Bank regional policy meeting “Demographic Transition in South Asia: Tackling Non-Communicable Diseases: Policy options”.**
* European Society of Hypertension Meeting: Madrid 2006: Invited lecture
* India- Australia Joint biotechnology workshop: Brisbane May 2007 (Invited lecture)
* Participated in ICMR INSERM Workshop “**Development of Biomarkers for CVD and Diabetes**” as a faculty.
* Participated in the ICMR-MRC (UK); 2011 and ICMR-CIHR; 2010 workshops as faculty.
* WHO (SEARO) and WHO (WR): Talks in several programmes organized during 2013, 2014
* Scientific Committee Co-Chair for the World Congress of Cardiology at Melbourne, May 2014
* Program Director, Research Methods at the Cardiology Society of India meeting (2013, 2014)
* PHFI Research Symposium: 2013, 2014
* Coordinated and organized the 42nd Ten Day Teaching Seminar on “Cardiovascular Epidemiology and Prevention” at Hyderabad from September 28 to October 8, 2009.
* Coordinated and organized the 46th Ten Day Teaching Seminar on “Cardiovascular Epidemiology and Prevention” at Coorg from May 25th to June 5th, 2014.
* Annual Nutrition symposium in Delhi from 2011-2015
* Physical Activity Symposium, Organised by Centre for Chronic Disease Control and CDC Atlanta at Mysore, India in 2011
* Research symposium, Centre for Chronic Disease Control; 2010, 2011,
* Leadership Course Delhi Organised by Centre for Chronic Disease Control and Emory University, 2012
* Organizing secretary of the International Conference on CVD, Diabetes and Stroke Feb 2006. Had more than 500 registered participants and more than 50 national and international speakers.
* International Conference on Heart Health: Delhi 1999, Joint secretary and Treasurer of the conference. This had 900 registrations and had more than 100 national and international speakers
* Workshop to formulate Indian Guidelines for the diagnoses and management of Acute Coronary Syndrome, Indian Guidelines, (August 2005).
* Surgical Treatment for Ischemic Heart Failure (STICH ) – Indian Investigators Meeting, (July 2004 and July 2005).
* WHO and Government of India supported Annual Sentinel Surveillance Workshop (2000, 2001, 2004 and 2005).
* WHO sponsored Media Sensitizing Workshop for Sensitization of Media on the burden of CVD. (July 2005)
* Formulation of guidelines for healthy body weight and body shape among Indians”. Bangalore, 22 and 23 December 2005. This workshop has the endorsement of WHO India, IC Health and All India Institute of Medical Sciences, New Delhi
* Organised a meeting titled “National network for NCD prevention and Control”, involving around 500 participants at All India Institute of Medical Sciences, New Delhi, February 16, 2006
* DEtection and MAnagement of coronary hearT disease (DEMAT) Project Investigators Meeting, New Delhi, February 19, 2006

**Medical Council Registrations**

Karnataka Medical Council 1986

Delhi Medical Council 2002, 2016

 **Conferences and Workshop organised**

 **IT Skills**

Well versed with Internet, Computer software

**Nationality***:* Indian;