

**Dr. Mahaveer Golechha** MSc, PhD (AIIMS, New Delhi), MSc (LSE-LSHTM, London)

## **Associate Professor and Registrar**

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**Brief profile:** Within the field of healthcare and social-development, I have completed an extensive array of education including Masters and PhD in health sciences, Masters in Psychology and Masters in health policy, planning and financing from LSE-LSHTM, UK.

Aside from my education, I also have substantial experience in social-development and public health at both grass root and higher level policy making. My training endowed me with social, psychological, economics and scientific skills, which helps me to understand developmental problems in a holistic way. I am operational person with immense insight about gaps in implementing policies for Public Health, Health Systems Strengthening, Universal Health Coverage, Healthcare Financing and practical solution to bridge them. Additionally, I have knowledge and thorough understanding of the SDGs and implementing policies to achieve targets of SDGs. I believe research and evidenced based policy is cornerstone for achieving Universal Health Coverage and Inclusive economic development. In the area of healthcare financing, I have significant experience of health insurance, benefit package development, costing, resource allocation, pooling, innovative financing, reimbursement, HTA. I am also leading teaching in the area of healthcare financing, health policy, UHC, HTA & procurement and purchasing.

**Future aspirations:** I am interested in developing a strong career in Public Health, Health System, Universal Health Coverage and Pharmaceutical Policies and Economics with the goal of making substantial contributions to improving population health.

### **Education:**

**MSc Health Policy, Planning and Financing** London School of Economics and Political Science and London School of Hygiene and Tropical Medicine **2012-2013**

*Modules: Health Economics, Financing Health Care, Health Services, Health Policy, Process and Power, Foundation of Health Policy, Health Systems, Economic Evaluation, Health Promotion approaches and methods*

*Dissertation: Assessment of the effect on universal access of the Chief Minister Free Drug Scheme (CMFDS) in Rajasthan, India.*

*Grades: Health Economics- Distinction and Merit in most subjects.*

**Ph.D. Biomedical Sciences** All India Institute of Medical Sciences, New Delhi, India and University of Delhi, India **2008-2011**

*Course: Biomedical Research, Clinical Research, literature search and review, clinical research, health policy*

**MSc Psychology** University of Madras, India **2008-2010**

*Course: Social Psychology, Applied Psychology, Developmental Psychology, Quantitative Technique and Psychology, Motivation and Personality, Organizational Psychology and Practical Psychology.*

**MSc Pharmacology** All India Institute of Medical Sciences, New Delhi, India **2006-2008**

*Course: Pharmacology, Clinical Pharmacology, Pharmacoepidemiology, Biostatistics, Pharmacovigilance, Access to medicine, Rational use of medicine, Pharmaceutical policies.*

*Result: First Position at Master's and All India Rank-2 in national level entrance examination.*

## Experience:

**Health Sector: Healthcare Financing, Public Health, Health Systems, UHC, Environment Public Health, Health Policy (9+ years):**

**Associate  
Professor**

**Indian Institute of Public Health, Gandhinagar**

**Dec, 2013- to date**

<b>Research</b>	<b>Academic</b>
Conceptualizing and developing various research grant, writing proposals, managing research projects, Monitoring and Evaluation, Qualitative and Quantitative tools and impact assessment of interventions, managing human and financial resources of projects, regular meetings with stakeholders (Government and donors) timely completion of projects and deliverables, report writing, dissemination	<b>Teaching</b> Masters of Public Health, Masters of Hospital Administration and Post-Graduation in Public Health Management (PGDPHM): Health Systems and Health Policy, Global Health, Health Management, Grant Writing, Healthcare Financing, HTA and UHC Mentoring Student for dissertations and internships Coordinator of PGDPHM Delivering Lectures in conferences, workshops and short term trainings

- **Project Lead- National Institute of Transforming India (NITI Aayog), Govt. of India- Evaluation of Impact of National Health Mission on Health systems, Governance and Human Resources for Health, Service Delivery- 2019-2020**
  - Analyze the strengths and weaknesses of the governance setup of the NHM
  - Identify best practices going forward in context to the framework of Ayushman Bharat (World's largest health insurance scheme), SDGs, UHC and health equity
  - Analyze the systematic, technical capacity and decision making at the National, State-level in carrying out the NHM
  - Study the Human Resource capacities across difference states and study the human resource gaps
  - Evaluation of resource allocation, Finance management process and Ayushman Bharat Benefit packages
- **Project Lead- Public Health Research Initiative-Department of Science of Technology, Govt. of India- Assessment of current status of WHO Health System Building Blocks in the state of Rajasthan- 2018-2021**
  - Development of framework for health system performance assessment,
  - Monitoring and Evaluation of various building blocks- public health service delivery, financing, human resources for health
  - Technical support to state and district health administration in health system strengthening, capacity building of human resources for health
  - Identifying barriers and facilitators of public service delivery in Rajasthan
  - Analyze the impact of various policies on health systems, health outcomes and quality
- **Project Lead- Department of Science and Technology, Govt. of India funded Project-Development and Implementation of Climate Resilience Heat Action Plans in Indian Cities under National Mission on Climate Change and Human Health**
  - Generating Robust Research Evidences on impact of climate change on Human Health by correlating various climatic indicators with morbidity & mortality
  - Methods for community vulnerability assessment due to extreme weather events (Heat, climate)

- Capacity Building of Government Stakeholders, Medical Officers, Community Health Providers and communities for prevention and management of climate sensitive diseases
- Development and implementation of Climate Resilient Heat Action plan- inter sectoral framework for the plan, communication strategic plan, public awareness mechanisms, IEC
- **Co-Principal Investigator- National Initiative for Developing & Harnessing Innovations-Techno Business Incubation for Public Health (NIDHI-TBI)- DST, Government of India**
  - Situational analysis for Identifying Key gaps in Public Health where Technology can provide a viable solution
  - Establishing Knowledge Forum & Mentoring support to all Incubatee selected under TBI-PH
  - Creating Developmental Entrepreneurs for Technology based innovations in Public Health
  - Development of cost effective technological solution for public health issues
- **Co-Principal Investigator- WHO SEARO- Strengthening Health Systems to address Climate Change risks in WHO South-East Asia region- 2018**
  - Developing Case study on Integrated Climate and Health Surveillance System in Bhutan
  - Documenting Efforts by Sri Lanka and Thailand for integrating climate and disease surveillance activities
  - Develop a Model integrated plan for climate sensitive disease surveillance and climate change
  - Qualitative In-depth interviews with various Ministry officials of Sri Lanka, Bhutan and Thailand
- **Project Lead- UNICEF UP and District Administration Chitrakoot, UP-: “Strengthened child centred disaster risk governance in Chitrakoot District, Uttar Pradesh, India”**
  - Resource gap analysis for Child Centered disaster risk governance
  - Capacity Building of Self Help Groups, communities and school children for disaster risk reduction strategies and environmental protection strategies at village level
  - Development of system of real time monitoring of various disaster for district disaster management information system
  - Effectiveness of technology in community level disaster mitigation/adaptation
- **Project Lead-USAID Funded The HIV/AIDS Partnership: Impact through Prevention, Private Sector and Evidence-based Programming (PIPPSE) Techno Managerial evaluation of SACS and TSU and development of various models for TSU- 2017-2018**
  - For the first time managerial study for evaluating and understanding technical support provided by Technical Support Unit (TSU) to various State AIDS Control Societies (SACSs)
  - Developed tools for assessing various aspects of technical support through qualitative and quantitative approach
  - Effectiveness of Targeted Interventions and approach of TSU for monitoring and supervision
  - Development of various alternate models for TSU with costing and pros-cons, SWOT analysis
- **Principal Investigator- Rajasthan Climate Change Project funded by UNICEF, Rajasthan, India- 2017-2018**
  - Development and implementation of India’s first climate resilience heat action plan in rural settings of Rajasthan for prevention and management of climate sensitive diseases,
  - Capacity building of medical officers, front line health workers and state level line department officials
  - Qualitative study to understand perception, policy planning for climate change and health; disaster risk reduction strategies at district and sub-district level
- **Co-PI- District Health Management Study, funded by MRC, UK, Wellcome Trust and LSHTM, UK- Assessment of management practices at District Health offices in Maharashtra and its role in public health service delivery. (2015-2016)**
  - Development of unique tools for the first time in world for assessment of effectiveness of district health managers and their managerial practices and its role in improving health services

- Triangulation of various health indicators with district health managerial practices
- **Co-PI- Project on Control of Thalassemia and Sickle Cell Anemia (SCA) in Gujarat**, funded by DBT, Govt. of India and CMC, Vellore- **2015-16**
  - Situational Analysis and Setting up of organizational arrangements for SCA and Thalassemia control in Gujarat
- **Development Opportunities for Tribal Children in Gujarat**. Funded by UNICEF Gujarat State Office- **2016**
- **Schools as a setting for Comprehensive Health Promotion**: Preventive, Promotive, Curative, Referral and outreach services. Funded by WHO Country Office, India- **2015**
- **MSAP-WHO Project**. Reviewed Standard Treatment Guidelines (STGs) for Identified NCDs and updated the STGs. Developed methodology for costing of STGs. Prepared assumptions and costing framework for MSAP. **(2014-15)**.

### **Additional Expertise and projects**

- Developing methods for costing of healthcare services and essential health packages
- Coordinated with national and state level officials of health, pharmaceutical and other development departments, academic/professional institutions and NGOs for preparing health governance structure for national free medicine scheme

**Research Fellow    Public Health Foundation of India, New Delhi**

**May, 2011- Sept. 2012**

### **Universal Health Coverage (Planning Commission, Government of India)**

- Member of core technical secretariat for India High Level Expert Group constituted by Prime-minister, which drafted policy documents for achieving Universal Health Coverage in India under the leadership of Prof. K S Reddy
- Organized meetings and consultation of various stakeholders to formulate detailed guideline in the area of community participation, financing healthcare, access to essential medicines, and health service norms
- Reviewed the literature for SDH for achieving universal health coverage and financing health care in developing countries
- Developed a national level plan for UHC advocacy as per advocacy coalition framework  
***Public Policy Impact:** The HLEG-UHC report become base and reference document for the Government for health systems reforms. National Health Policy-2017 is largely based on HLEG report. Also Ayushman Bharat model been suggested by HLEG-UHC.*

### **Social Determinants of Health (SDH) Bupa Foundation**

- Worked for developing a system for periodic monitoring of SDH to inform research and policy in India
- Played major role in developing stakeholder partnership with several government departments at state and national level
- Analyzed datasets for various SDH; Environment, Education, Poverty, Policies, Employment etc.

### **Causes of Death (CoD) PHMRC, Washington, USA, BMGF Project:**

- Involved in developing automated verbal autopsy method for assigning causes of death
- Evaluated available products for data collection on handheld tablets
- Member of team participated in preparing and reviewing various questionnaire, interviewer manual and training material
- Adapted material for applying automated method in Annual health survey (largest household survey)
- Organized and supervised field testing and training of interviewer. Monitoring and supervision of field data collection

**Research Fellow                      All India Institute of Medical Sciences, New Delhi,                      June, 2008-April, 2011  
India**

- Involved in various projects funded by Ministry of Health and Family Welfare, Govt. of India, Indian Council of Medical Research and Department of Science and Technology, Govt. of India
- Pharmaceutical policy and economics- India's Drug Policy critical review, National Essential Medicine Policy
- Conducted clinical and experimental research, relevant data searches and literature search
- Access and compile datasets and information in a logical manner
- Written research grant proposals and prepared supporting documents and information (contingency, Budget) and research reports for funding agencies
- Participated in various technical group discussion related to financing health care, health policy and planning
- Organized International and national conferences, symposium at AIIMS

**Coordinator, Public    Rotary International, District 3050    June, 2004-August,  
Health Programs    Rajasthan, India    2006**

- Involved in developing guideline for operationalizing major Environment and Public Health Initiative of Rotary Intl.
- Coordinated and managed implementation of National Public Health Programs in Rural Primary Health Centers
- Provided technical support to senior Government Officials and Public Health Managers for improving the quality and reach of Public Health services
- Liaised with the different Department/Agencies of State Administration for efficient functioning of the projects
- Established youth centers in the rural and conservative areas of the district and provided technical support to train 1000 youth peer educators
- Developed Information, Education and Communication materials to generate awareness among parents, teachers, gatekeepers regarding consequences of climate change, heat waves and its adverse impact, developing community capacity for adaptation
- Actively involved and Participated in activities of community health programs run by Government of Rajasthan and Government of India

**Voluntary work experience: Position and Organization:**

**Member, Common Review Mission, National Rural Health Mission (NRHM), Ministry of Health, Govt. of India-2010 and 2016**

- Reviewed progress of NRHM with reference to the functioning of NRHM vis-à-vis its goals and objectives (Field visits of Public Health Facilities)
- Reviewed programme implementation in terms of accessibility, equity, affordability and quality of health care services, identify constraints faced and possible solutions
- Made recommendations to improve program implementation and design
- Designed communication strategies to create awareness about safe motherhood practices
- Developed recommendations for increasing accessibility and availability of maternal health facilities

**Policy Intern, High Commission of India, London (Ministry of External Affairs, Govt. of India) (Dec.12-Mar. 13)**

- Rotated in various department viz education, social and culture, business and economics, press and information to learn about their functioning
- Studied extensively the India's international relation with European countries and extensively reviewed Indo-UK bilateral relations and role of International agencies in development.
- Reviewed policy documents and various publication of High Commission of India

#### **President, Bhartiya Jain Sanghthana (BJS) Youth Wing, Delhi (2010-2012)**

- BJS is a NGO working in Social Services, Environmental issues, Education and Disaster Management, Involved in developing and implementing education evaluation and quality improvement, involved in preparing moral education programs for primary and secondary schools
- Developed strategic implementation plan of the project for empowerment of girls and youth

#### **INSPIRE AND IGNITE YOUTH PROGRAM (2009-till date)**

- Launched this initiative for motivating youth for higher education, social service
- Organized career fair for guiding rural youth for future education and health promotion

#### **Lion's International (2005-2006)**

- Health Education campaigning in schools, Anti-tobacco initiatives, Pollution Free Initiative, Hygiene and sanitation promotion
- Conducted advocacy workshop at the district and state level to sensitize District and State Officials on the need of reducing industrial pollution in western Rajasthan.
- Created a network with other NGOs working in the area of Occupational Health

#### **Leo International (2005-2006)**

- Community health awareness initiative, Youth Sports event, organized Skill development workshop
- Designed and pretested questionnaires to collect data on the access to, the availability, quality and utilization of emergency obstetric care services.

#### **Summer Internship (2002)**

- Science and biology voluntary teaching in rural schools of Barmer district of Rajasthan state
- Health promotion activities in schools and rural areas, specially nutrition, maternal and child health

#### **Academic Distinction/ Honors/ Awards/ Recognition**

- Meritorious Student Award at JDICON, Mumbai, 2005
- **All India Rank 2** in National Post- Graduate Entrance Examination conducted by AIIMS
- **Alzheimer's Young Investigator Scholarship Award** by Alzheimer's drug discovery foundation (This honor given to 25 young scientists throughout the world), 2011
- **Included in the list of most influential game changers personality by Mail Today, 2011**
- **INSPIRE Fellow award** for Doctoral Research by Ministry of Science and Technology, Govt. of India
- **First Position in Post-Graduation** Examination conducted by AIIMS, New Delhi, 2008
- Yuva Pratibha Shodh Sewa Samman by Chief Minister, Govt. of Rajasthan
- International Travel Award from Indian Council of Medical Research.
- International Travel Award from Department of Biotechnology, Govt. of India.
- **Alzheimer's Young Investigator Scholarship Award** by Alzheimer's drug discovery foundation (This honor given to 30 young scientists throughout the world), 2013.
- **Delivered TEDx talk at VIT Vellore, India (2015).**

#### **Public Health and Leadership Award**

- **Exemplary Leadership Award** (Public Health) by Govt. of Rajasthan (2011).
- **Outstanding Public Health Achievement Award** by Government of Rajasthan (2010).
- Award for Excellence in Public Health (2009-2010) by Lion's International.

- Meritorious Service Award (2008) by Rotary International District 3050.
- Recognition Certificate for serving in floods relief activities in Rajasthan
- Rotary Public Health Service Award (2005) by Rotary International.

### **Extra-curricular activities:**

#### **Director of External Relations, London School of Economics SU India Society:**

- Organized LSE flagship socio-cultural event LSE India week, an event dedicated to India's economy, culture, politics, business, international relations.
- Organized Indo-UK business conference for promoting Indo-UK trade.
- Prepared speaker and sponsorship pack, maintained external relations, negotiation with sponsors

#### **Member, LSE SU UN Society**

- Voluntary activities (WFP), World AIDS Day, MUN Training, International Organization Day

#### **Member, LSE Health Society**

- Organized conferences, seminar and symposium in international health and alumni talks

#### **IT Skills:**

- Microsoft word, Microsoft Excel, End Note, Microsoft Power-point, SPSS, Pubmed, Cochrane, biomedical and public health databases. Attended workshops at LSE for IT skills development

#### **Publication and conferences attended:**

- Published **24 manuscripts** in peer reviewed journals including Lancet, British Medical Journal, Social Science and Medicine, Pharmaceutical Biology, Indian Journal of Medical Research, Biol Pharm Bull., Biomedicine Pharmacotherapeutics etc.
- Policy Briefs, Action Plans and Chapters.
- **Report writing for various international and national projects- WHO, USAID, UNICEF, BMGF, Govt. of India, State Governments etc.**
- Presented research at International and national conferences and attended research events on range of topic clinical and public health and policy issues
- Attended capacity building workshops in the area of healthcare-public health, sustainable healthcare financing, health system, Environmental Public Health, Climate Change and Health
- Organized capacity building and training workshops for healthcare professionals and Government officials from various line departments
- Mentored and Mentoring more than 40 students for MPH, MHA and PGDPHM research-dissertation and internship

## Publications:

1. Powell-Jackson T, Purohit B, Saxena D, **Golechha M et al.** Measuring management practices in India's district public health bureaucracy. **Soc Sci Med.** 2019 Jan;220:292-300
2. Saxena D, Yasobant S, **Golechha M.** Situational Analysis of Sickle Cell Disease in Gujarat, India. **Indian J Community Med.** 2017 Oct-Dec;42(4):218-221.
3. **Golechha M.** Healthcare agenda for the new Indian Government. **Indian Journal of Medical Research.** **2015 141;16-18.**
4. **Golechha M.** Health Promotion Methods for Smoking Prevention and Cessation: A Comprehensive Review of Effectiveness and the Way Forward. **Int J Prev Med.** 2016 11;7:7.
5. **Golechha M.** Can India be tuberculosis-free by 2050?. **Lancet . 2015 (385(9965):328-9.**
6. **Golechha M,** Sarangal V, Bhatia J, Chaudhry U, Saluja D, Arya DS. Naringin ameliorates pentylenetetrazol-induced seizures and associated oxidative stress, inflammation, and cognitive impairment in rats: Possible mechanisms of neuroprotection. **Epilepsy Behav.** **2014;41C:98-102.**
7. **Golechha M.** The National health assurance mission for India. **Lancet.** **2014 384;(9949):1185-6.** (PMID: 25263677).
8. Krishnamurthy B, Rani N, Bharti S, **Golechha M,** Bhatia J et al. Febuxostat ameliorates doxorubicin-induced cardiotoxicity in rats. **Chem Biol Interact.** 2015 Jul 25;237:96-103.
9. **Golechha M.** Priorities for the next Indian government's reform of healthcare. **BMJ.** **2014 14;348:g2733.** (PMID: 24733609).
10. **Golechha M,** Sarangal V, Ojha S, Bhatia J, Arya DS. Anti-Inflammatory Effect of *Emblica officinalis* in Rodent Models of Acute and Chronic Inflammation: Involvement of Possible Mechanisms. **Int J Inflamm.** **2014;2014:178408.**
11. **Golechha M,** Bhatia J, Ojha S, Arya DS. Hydroalcoholic extract of *Emblica officinalis* protects against kainic acid-induced status epilepticus in rats: evidence for an antioxidant, anti-inflammatory, and neuroprotective intervention. **Pharm Biol.** **2011; 49(11):1128-36.** (PMID: 21749189).
12. **Golechha M,** Chaudhry U, Bhatia J, Saluja D, Arya DS. Naringin protects against kainic acid-induced status epilepticus in rats: evidence for an antioxidant, anti-inflammatory, and neuroprotective intervention. **Biol Pharm Bull,** **2011; 34(3):360-5.** (PMID: 21372385).
13. **Golechha M,** Bhatia J, Arya DS. Hydroalcoholic extract of *Emblica officinalis* affords protection against PTZ-induced seizures, oxidative stress and cognitive impairment. **Indian J Exp Biol.** **2010; 48(5):474-8.** (PMID: 20795364).
14. **Golechha M,** Bhatia J, Arya DS. Studies on effects of *Emblica officinalis* (Amla) on oxidative stress and cholinergic function in scopolamine induced amnesia in mice. **J Environ Biol (In Press).**
15. Krishnamurthy B, Rani N, Bharti S, **Golechha M,** Bhatia J, Nag TC, Ray R, Arava S, Arya DS. Febuxostat ameliorates doxorubicin-induced cardiotoxicity in rats. **Chem Biol Interact.** 2015;237:96-103.
16. Bhatia J, Tabassum F, Sharma AK, Bharti S, **Golechha M,** Joshi S, Sayeed Akhatar M, Srivastava AK, Arya DS. *Emblica officinalis* Exerts Antihypertensive Effect in a Rat Model of DOCA-Salt-Induced Hypertension: Role of (p) eNOS, NO and Oxidative Stress. **Cardiovasc Toxicol.** **2011; 11(3):272-9.** (PMID: 21748534).
17. Ojha S, **Golechha M,** Kumari S, Arya DS. Protective effect of *Emblica officinalis* (amla) on isoproterenol-induced cardiotoxicity in rats. **Toxicol Ind Health.** **2012; 28(5):399-411.** (PMID: 22033422).
18. Tanwar V, Sachdeva J, **Golechha M,** Kumari S, Arya DS. Curcumin protects rat myocardium against isoproterenol-induced ischemic injury: Attenuation of ventricular dysfunction through increased expression of Hsp27 along with strengthening antioxidant defense system. **J Cardiovasc Pharmacol.** **2010; 55(4):377-84.** (PMID: 20125031).



19. Goyal SN, Bharti S, Arora S, **Golechha M**, Arya DS. Endothelin receptor antagonist BQ-123 ameliorates myocardial ischemic-reperfusion injury in rats: a hemodynamic, biochemical, histopathological and electron microscopic evidence. **Biomed Pharmacother.** **2010**; **64(9):639-46.** (PMID: 20888175).
20. Sachdeva J, Tanwar V, **Golechha M**, Khalid M Siddiqui, Nag TC, Ray R, Kumari S and Arya DS. Crocus Sativus L. (saffron) attenuate isoproterenol induced myocardial injury via preserving cardiac functions and strengthening antioxidant defense system. **Exp Toxicol Pathol.** **2010 (2010 Dec 6).** (PMID: 21144717).
21. Ojha S, Arora S, Joshi S, **Golechha M**, Arya DS. Cardioprotective effects of Commiphora mukul against isoprenaline-induced cardiotoxicity: a biochemical and histopathological evaluation. **J Environ Biol.** **2011**; **32(6):731-8.** (PMID: 22471209).
22. Ojha S, **Golechha M**, Kumari S, Bhatia J, Arya DS. Glycyrrhiza glabra protects from myocardial ischemia-reperfusion injury by improving hemodynamic, biochemical, histopathological and ventricular function. **Exp Toxicol Pathol. (In Press).** (PMID: 21975080).
23. Bharati S, **Golechha M**, Kumari S, Arya DS. Akt/GSK-3 $\beta$ /eNOS phosphorylation arbitrates safranin induced myocardial protection against ischemia-reperfusion injury in rats. **Eur J Nutr.** **2011. [Epub ahead of print]** (PMID: 21983875).
24. Ojha S, Bharti S, **Golechha M**, Sharma A, Rani N, Kumari S, Arya DS. *Andrographis Paniculata* extract protect against isoproterenol-induced myocardial injury by mitigating cardiac dysfunction and oxidative injury in rats. **Acta Poloniae Pharmaceutica ñ Drug Research.** **2010**; **(69)2: 269-278.** (PMID: 22568041).

**TEDx talk:** <https://www.youtube.com/watch?v=xKD1o0qifWU>

**BBC London Interview:** <https://www.youtube.com/watch?v=bO0lfywx28>

<https://blogs.lshrm.ac.uk/alumni/2016/05/31/mahaveer-golechha-ted-talk-and-profile/>

<http://www.lse.ac.uk/website->

<archive/newsAndMedia/aroundLSE/archives/2013/AlzheimersYoungScientist.aspx>