

**Health Technology  
Assessment in India (HTAIn)**



# Workshop On “Health System Costing”

**(06-07 February 2024)**

*Organized by*  
**HTA Resource Center at  
ICMR-National Institute of Virology, Pune**

*In collaboration with*  
**HTA Resource Centers at  
ICMR- National Institute for Research in Tuberculosis,  
Chennai  
&  
ICMR-National Institute of Epidemiology, Chennai**



# Agenda

## Workshop on Health System Costing

### ICMR– National Institute of Virology, Pune

#### (06-07 February 2024)

Day 1 (Date: 06 February 2024)			
Sr. No	Topic	Speaker/Facilitator	Time (Hrs) IST
I	Registration	ICMR–NIV HTARC staff	09:00 am - 09:20 am
II	Workshop overview (Day I and Day II) & participants introduction	Dr Yogesh Gurav Scientist – F & PI: HTARC, ICMR-NIV, Pune	09:20 am - 09:30 am
III	Workshop inauguration	Lamp lighting & Address by <b>Dr Rajiv Bahl</b> (DG ICMR & Sec- DHR, Govt of India) <b>Smt. Anu Nagar</b> (Joint Secretary, DHR, Govt of India) <b>Dr Sheela V. Godbole</b> (Director-In-Charge, ICMR–NIV, Pune) (Group Photo)	09:30 am - 09:50 am
IV	Health system costing: Introduction, need for cost data in healthcare decision making & role of HTAIn	Dr Yogesh K Gurav	09:50 am - 10:30 am
Tea break			10:30 am - 10:45 am
V	Basic concepts costing: Classifications of cost, financial versus economic cost, normative versus actual cost	Dr Bhavani Shankara Bagepally	10:45 am - 11:45am
VI	Methodology of costing: Costing perspective, time horizon for cost data collection & cost measurement approaches	Dr M. Muniyandi	11:45 am - 12:30 pm

VII	Designing a costing study: Identification of cost centres, identification of outputs/ inputs, pricing & shared resources	Dr Yogesh K. Gurav	12:30 pm - 1:15 pm
<b>Lunch</b>			<b>01:15 pm - 2:00 pm</b>
VIII	Cost data collection and quality assurance: Steps to undertake cost data collection	Dr Somen Saha	2:00 pm - 2:45 pm
IX	Challenges in cost data collection in India: Institutional permission for data sharing, time for data collection, sources of primary data, unavailability of documented data, data sharing issues & possible ways to resolve the challenges in costing studies	Dr Susmita Chatterjee	2:45 pm - 3:45 pm
<b>Tea Break</b>			<b>03:45 pm - 04:00 pm</b>
X	Analysis of cost data-Part I: Dealing with joint/shared cost, apportioning & capacity utilization statistics for various resources	Dr Malkeet Singh	04:00 pm – 05:00 pm
<b>End of the day</b>			

<b>Day 2 (Date:07 February 2024)</b>			
<b>Sr. No</b>	<b>Topic</b>	<b>Speaker/ Facilitator</b>	<b>Time (Hrs) IST</b>
I	Analysis of cost data-Part II: calculation of capital cost, annualization, discounting & recurrent cost calculation	Dr M. Muniyandi	09:30 am - 10:30 am
<b>Tea break</b>			<b>10:30 am - 10:45 am</b>
II	Analysis of cost data-Part III: Sensitivity analysis & budget impact analysis	Dr Antony Stanley	10:45 am -11:30 am
III	Cost analysis of healthcare programs: Stages in costing a healthcare program & budget impact of the health program	Dr Beena Joshi	11:30 am - 12:15 pm
IV	Hands on exercise on calculation of discounting, annualization & apportioning in costing studies	HTARC team ICMR-NIV ICMR-NIRT ICMR-NIE	12:15 pm - 01:30 pm
<b>Lunch</b>			<b>01:30 pm - 02:15 pm</b>
V	Cost of Illness analysis: Steps to undertake cost of illness analysis, study approach, cost components & cost analysis of health risk	Dr Yogesh Gurav	02:15 pm - 03:15 pm
<b>Tea break</b>			<b>03:15 pm - 03:45 pm</b>
VI	Applications of costing in HTA: Health system costing, Health program costing, Diagnostic & Therapeutic procedure costing etc.	Dr Gaurav Jyani	03:45pm - 04:30 pm
VII	Valedictory function and certificate distribution by Dr Sheela V. Godbole (Director-In-Charge, ICMR-NIV, Pune) followed by vote of thanks & group photo		04:30 pm - 05:00 pm
<b>End of the day</b>			

## Workshop on Health System Costing at ICMR-NIV, Pune (06 & 07 February 2024)

### *About the workshop:*

Health Technology Assessment Resource Centre (HTARC) at ICMR-National Institute of Virology (NIV), Pune is organizing a workshop on “Health System Costing” in collaboration with HTARCs at ICMR-National Institute for Research in Tuberculosis (NIRT), Chennai and ICMR-National Institute of Epidemiology (NIE), Chennai. The workshop would be useful to researchers keeping interest in understanding the concept of costing in healthcare and using this knowledge for undertaking costing studies in future. Participants can learn how to plan a costing study and communicate the results. The workshop would be conducted using live lectures and discussion sessions involving demonstration along with side-by-side learning. A total of 30 participants will be allowed to participate in the workshop after screening the applications.

### *How to apply for the workshop?*

Interested participants need to fill the application form by uploading their CVs and no objection/undertaking certificates (from the head of the department/institute) as provided in the google link form. The certificate should clearly state that the participant will be relieved from his/her duties from the institute/college for the workshop period (6 and 7 February 2024) if he/she gets shortlisted for the workshop.

**Note:** No objection/undertaking certificate is mandatory so as to ensure that the participant should get an opportunity to attend the workshop without any hardships. The certificate confirms the employers support to the participant if he/she gets selected for the workshop. **Application form google link:** <https://forms.gle/AxXw9CLtqX5gTrsk9>

### *Travel & accommodation support:*

Travel and accommodation support for the shortlisted 30 participants will be provided as per the Government rules and regulations. Stay arrangements of the participants will also be done by the organisers. The necessary instructions in this regards will be shared through email communication to the shortlisted participants.

### *Is there any fees for the workshop?*

There is no fee for the workshop participation. The funds for the workshop would be utilised from HTA Resource Center at ICMR-NIV Pune, under the HTA capacity building initiative.

### *Timelines for application:*

Participants need to complete the application procedure by 17<sup>th</sup> January 2024. Screening of the applications will be done by the organisers and shortlisted participants will be informed about their selection through an Email communication by 19<sup>th</sup> January 2024.

### *What are the workshop benefits and expectations from the participants?*

Workshop will help in learning the basics about costing and how to plan a costing study. Certificate of successful completion of the workshop will be awarded to the participants. The participant should have interest in the health system costing and future plans to conduct a costing study. Participant should arrive in time for the workshop and attend all sessions for two days. Participants are encouraged to bring their own laptops for the workshop.

**Duration and date:** Two days (06 & 07 February 2024) between 9 am to 5 pm.

**Workshop venue:** Conference Hall, 3th floor, ICMR-National Institute of Virology, 20-A, Dr Ambedkar Road, Camp Area, Pune, Maharashtra, India

### *Workshop organizers:*

Health Technology Assessment Resource Center- ICMR, National Institute of Virology, Pune. In collaboration with ICMR-National Institute for Research in Tuberculosis (NIRT), Chennai and ICMR-National Institute of Epidemiology (NIE), Chennai.

### *Workshop Coordinator:*

**Dr Yogesh K. Gurav**, Scientist F & Group Leader, Health Technology Assessment Group. Principal Investigator of Health Technology Assessment Resource Center at ICMR-National Institute of Virology, Pune

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## PATRONS



**Dr Rajiv Bahl**

Secretary to Government of India, Department of Health Research and  
Director General, Indian Council of Medical Research, New Delhi



**Smt. Anu Nagar**

Joint Secretary to Government of India,  
Department of Health Research, New Delhi

## VALUABLE GUIDANCE



**Dr Sheela V. Godbole**  
Director-In-Charge  
ICMR-NIV, Pune



**Dr Padmapriyadarsini C**  
Director  
ICMR-NIRT, Chennai



**Dr Manoj V. Murhekar**  
Director  
ICMR-NIE, Chennai

**Faculty cum Organiser**  
**Dr Yogesh K. Gurav**



Dr Yogesh K. Gurav is a Scientist F & Group Leader, Health Technology Assessment Group at ICMR-National Institute of Virology, Pune, Maharashtra. He holds the degrees i.e., MBBS, MD (PSM), PG Diploma in Epidemiology, PG Diploma in Bioethics. He did his Master in Health Technology Assessment (International Programme) from Mahidol University, Thailand. His research work on cost effectiveness of vaccines (Hepatitis A vaccines & Rubella vaccination) got an award in the Health Technology Assessment International (HTAi) Conference/Meeting (July 2019) at Cologne, Germany and HTASialink2024 conference (Sept 2023) in Putrajaya, Malaysia respectively. His research interest includes infectious diseases epidemiology, public health, outbreak investigations, HTA and health system costing. He has many national and international peer-reviewed scientific journals publications to his credit.

**Faculty cum Co-organiser**

**Dr M Muniyandi**



Dr. M Muniyandi is a Scientist E & Head of the Department of Health Economics at ICMR-National Institute for Research in Tuberculosis, Chennai, Tamil Nadu. He holds the degrees i.e., MA., MPS., MPhil., PhD. He is also leading the Regional Resource Center on Health Technology Assessment in his institute. He is a leading researcher in the field of socio-economics and health economics related to TB control in India. He is involved in diverse socio-economic, behavioural and epidemiological research and intervention projects in the context of improving population health. He has made significant scientific outputs under his working institutes and he has a more than 100 research papers published in reputed indexed peer reviewed journals.

**Dr Bhavani Shankara Bagepally**



Dr. Bhavani Shankara Bagepally is a Scientist E at ICMR-National Institute of Epidemiology, Chennai, Tamil Nadu. He holds the degrees i.e., MBBS, PhD. He did his Master in Health Technology Assessment. (International Programme) from Mahidol University, Thailand. He got the many HTA papers published in international Journals He is also leading the Regional Resource Centre on Health Technology Assessment in his institute. At present, he is involved in multiple HTA studies that being carried out for the HTA topics allotted by the Department of Health Research (HTAI), Government of India. His research interest includes Clinical Neuroscience, Health Technology Assessment, Health Economics, Public Health and Epidemiology.

## Faculty

### Dr Somen Saha



Dr. Somen Saha is a Professor at Indian Institute of Public Health Gandhinagar, Gujarat. He work in the area of economic assessment of health programmes, impact evaluation, health financing, and health systems convergence. He holds a PhD from the University of Melbourne, Australia. He is part of the Independent Verification Agency for SRESTHA-G – a health systems strengthening initiative of Gujarat supported by the World Bank. He led the State Resource Centre for Concurrent Monitoring of ICDS programme in Gujarat set up by the

Women & Child Development Department, Gujarat. He also leads the Regional Resource Centre for Health Technology Assessment set up at IIPHG with support from Department of Health Research. He leads the Centre of Excellence in Nutrition Gujarat. He has many national and international peer-reviewed scientific journals publications to his credit.

### Dr Susmita Chatterjee



Dr Susmita Chatterjee is a Senior Health Economist at the George Institute for Global Health, New Delhi, India. She did her PhD from Calcutta University, India, and post-doctoral research in Mahidol University, Thailand and University of San Francisco, USA. Her research interests include costing of health services, economic burden studies, health financing, and economic evaluations. She led two largest immunization costing studies in India which estimated the delivery cost

of routine immunization programme of the country and the incremental cost of improving routine immunization coverage of the country. Currently, she is leading a project in collaboration with the Central Tuberculosis Division of the government of India. She is one of lead authors for developing vaccine economics curriculum along with Johns Hopkins University, USA and universities from Pakistan, South Africa, and Uganda.

### Dr Beena N. Joshi



Dr Beena N. Joshi is a Scientist F and Head, Department of Operational and Implementational Research at ICMR- National Institute of Research in Reproductive and Child Health (NIRRCH), Mumbai, Maharashtra. She is a clinician with a PhD in Community Medicine.

Her research interests include preconception care, anaemia, Health Technology Assessment, PCOS, HIV, contraception and adolescent health. She is the lead Principal Investigator of the Regional Resource Center on Health Technology Assessment at her institute. She is also the Nodal Officer of the WHO Collaborating Center for Research at the institute. She has rich experience in conduct of epidemiological studies and has worked closely with state and local health departments for improving several components of reproductive health care services. She has many national and international peer-reviewed scientific journals publications to her credit.





### **Dr Malkeet Singh**

Dr Malkeet Singh is a distinguished Health Economist, currently serving as a Senior HTA Specialist at the National Health Authority, Ministry of Health and Family Welfare in the Government of India, New Delhi. In his current role, at the Health Financing and Technology Assessment (HeFTA) Unit of the NHA, he is responsible for implementation of HTA to inform reimbursement and pricing decisions, particularly for the Ayushman Bharat Pradhan Mantri Jan Arogya Yojana (AB PM-JAY). Prior to this, he has accumulated diverse experience in the field and he has been working as Health Economist at the DHR-HTAIn Secretariat, Manager HEOR at the Abbott India, and as Technical Advisor at Center for Global Development.



### **Dr Gaurav Jyani**

Dr Gaurav Jyani is currently serving as Economic Evaluation Specialist at HTAIn RRC, PGIMER, Chandigarh. He holds PhD in Health Economics. He has been associated with HTAIn since its inception, and in addition to contributing to capacity building for HTA, he has been actively involved in conduct of HTA studies for last 8 years. He has published numerous research papers on cost-effectiveness of healthcare interventions, patient reported outcomes, health financing, priority setting, and universal health coverage. His work on the development of EQ-5D value-set for India is serving as a useful resource for conducting HTA studies in India. The findings of his doctoral work are used by the EuroQol Foundation to improve the design of valuation studies in different countries.



### **Dr Antony Stanley**

Dr Antony Stanley is a Medical Doctor with an MD in Community Medicine. He is currently pursuing his PhD in the field of Health Economics and Outcomes Research from SCTIMST, Thiruvananthapuram, Kerala. He has over six years of experience working in the field of Health Technology Assessment. He is currently working as the Senior Research Officer at the Regional Technical Resource Centre for Health Technology Assessment, SCTIMST, Kerala. He is one of the fellows of the India Health Policy and Systems Research Fellowship 2021. His work has focused on a variety of topics, including the cost-effectiveness of interventions, and equitable access to healthcare. He has published in many peer-reviewed journals and has presented his work at national and international conferences.