



**Maternal and perinatal Health Research collaboration, India (MaatHRI)** is a UK-India collaboration for maternal and perinatal health research. It is a collaboration between the University of Oxford (National Perinatal Epidemiology Unit, Nuffield Department of Population Health) and 15 government and private hospitals across five states in India.

## Impact of the ongoing Covid-19 pandemic-23rd March to 20th September 2020

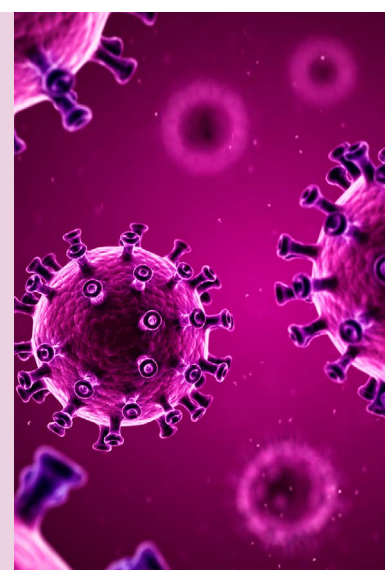
### Work has resumed partially since August 2020

Workstream - 1 (monthly survey of maternal complications) continued in all hospitals during the pandemic.

Workstream - 2 (safety of induction and augmentation study) has restarted in all hospitals except two –

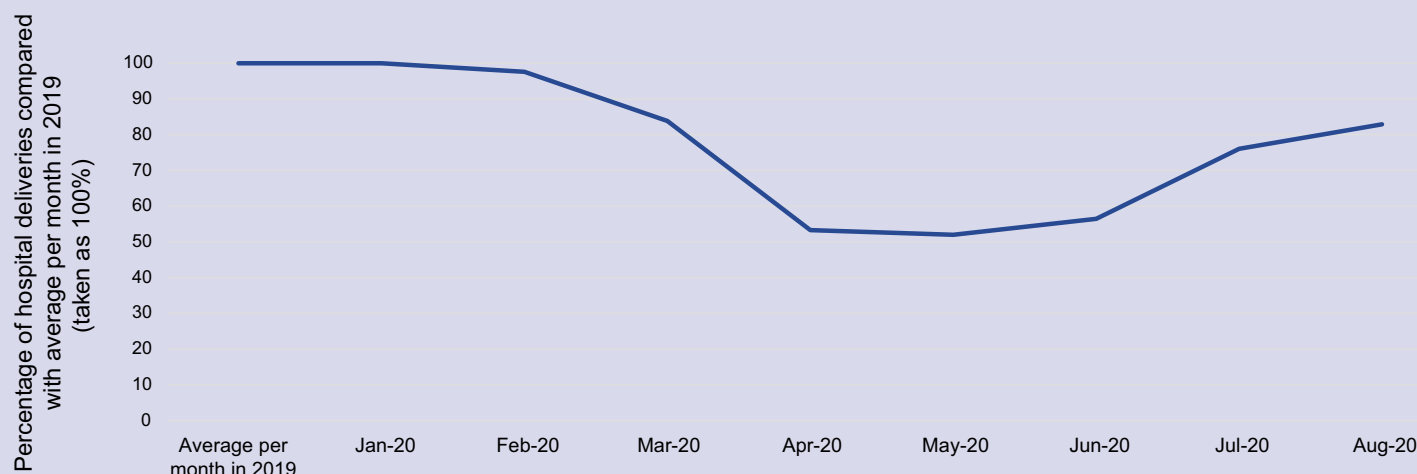
- Institute of Medical Sciences, Banaras Hindu University, is still continuing to operate as a primary centre for treating COVID-19 patients (as informed by the site collaborator).
- Dr Rajendra Prasad Government Medical College Kangra at Tanda, Himachal Pradesh, which joined the project in March 2020, has recently received ethics approval. Work has not yet started.

Workstream - 3 (Heart failure in pregnant women) has only restarted in hospitals that are able to transfer blood samples to the national laboratory in Delhi.



## Participant recruitment continues to be affected due to the decreased flow of patients to the hospitals, but the numbers are increasing gradually after the lockdown measures were eased in July 2020.

Childbirth in the MaatHRI collaborating hospitals in India during the COVID-19 pandemic



## Capacity building

### Presentations at scientific conferences – European Society of Cardiology Congress – 2020 and American Society of Echocardiography 2020

Maryam Alsharqi, a DPhil (PhD) student at Cardiovascular Clinical Research Facility, University of Oxford and trainer for MaathRI, presented the process developed for training obstetricians in the MaathRI project to use hand-held echocardiography and the quality of the images acquired by the trained obstetricians (see image from the poster).

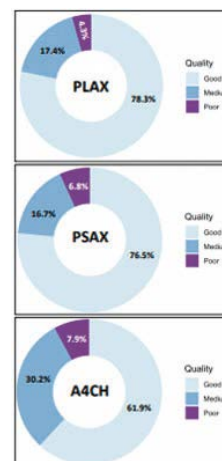


Figure 1. Image quality assessment for 2D PLAX (parasternal long axis), 2D PSAX (parasternal short axis), and 2D A4CH (apical 4 chamber), of all 147 pregnant women (with and without heart failure).

## Outputs

### Methodology paper published

A paper describing the methodology for establishing the MaathRI platform was published in July 2020 (<https://f1000research.com/articles/9-683>).

### Paper under review

A paper from the study that examined the differences between the coagulation parameters in pregnant women who have moderate/severe anaemia and those who do not, has been submitted for publication.

## Recognition

MaathRI was 'Highly Commended' in the University of Oxford's Vice Chancellor's Innovation awards 2020

<https://www.ox.ac.uk/research/research-impact/maternal-and-perinatal-health-research-collaboration-india-maathri>



## MaathRI Team

Associate Professor Manisha Nair, University of Oxford (CI)  
Ms Rupanjali Deka, Project Manager, MaathRI  
Prof. Dipika Deka, Vice Chancellor Srimanta Sankaradeva University of Health Sciences, Guwahati, Assam  
Prof. (Major) Anjali Rani, Banaras Hindu University, Varanasi, Uttar Pradesh  
Prof. S Chhabra, Mahatma Gandhi Institute of Medical Sciences, Wardha, Maharashtra  
Dr Pramod Kumar, Mahatma Gandhi Institute of Medical Sciences, Wardha, Maharashtra  
Dr. Indrani Roy, Nazareth Hospital, Shillong, Meghalaya  
Dr Carolin Solomi V, Makunda Christian Leprosy and General Hospital, Assam  
Dr Vijay Anand Ismavel, Makunda Christian Leprosy and General Hospital, Assam  
Dr Roshine Mary Koshy, Makunda Christian Leprosy and General Hospital, Assam  
Dr Ashok Verma, Dr Rajendra Prasad Government Medical College Kangra, Himachal Pradesh  
Dr Sita Thakur, Dr Rajendra Prasad Government Medical College Kangra, Himachal Pradesh  
Dr Omesh Kumar Bharti, State Institute of Health and Family Welfare, Department of health and Family Welfare Government of Himachal Pradesh

Dr. Saswati Sanyal Choudhury, Gauhati Medical College and Hospital, Assam  
Prof. Ratna Kanta Talukdar, Jorhat Medical College and Hospital, Assam  
Dr. Tina Nath, Gauhati Medical College and Hospital, Assam  
Dr Farzana Zahir, Assam Medical College and Hospital, Assam  
Prof. Robin Medhi, F.A.A Medical College, Assam  
Dr. Swapna D Kakoty, F.A.A Medical College, Assam  
Dr. Isha Goel, F.A.A Medical College, Assam  
Dr Pranabika Mahanta, Jorhat Medical College and Hospital, Assam  
Dr Gitanjali Deka, Tezpur Medical College and Hospital, Assam  
Dr Usha Sarma, Gauhati Medical College and Hospital, Assam  
Dr Pranoy Nath, Silchar Medical College and Hospital, Assam  
Dr Seerasha Rao, Silchar Medical College and Hospital, Assam  
Dr Bandana Das, Silchar Medical College and Hospital, Assam  
Dr Arup Kumar Choudhury, Dhubri Civil Hospital, Assam  
Dr Krishnaram Bora, Nagaon Civil Hospital, Assam  
Dr Madhav Rajbongshi, Mahendra Mohan Choudhury Hospital, Assam  
Dr Amrit Bora, Mahendra Mohan Choudhury Hospital, Assam

## Contact:

Manisha Nair: [manisha.nair@npeu.ox.ac.uk](mailto:manisha.nair@npeu.ox.ac.uk) +44 1865 617820

## Funders:

MRC CDA Fellowship for Manisha Nair | NDPH Pump-priming award | Ultromics Ltd



Nuffield Department of POPULATION HEALTH  
UNIVERSITY OF OXFORD



Design: Sarah Chamberlain, NPEU, Oxford