



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.

New collaborating hospital

Dr Rajendra Prasad Government Medical College Kangra at Tanda, Himachal Pradesh, joined the MaatHRI collaboration in February 2020.

A warm welcome to our site collaborators –



Dr. Ashok Verma

Professor of Obstetrics
& Gynaecology



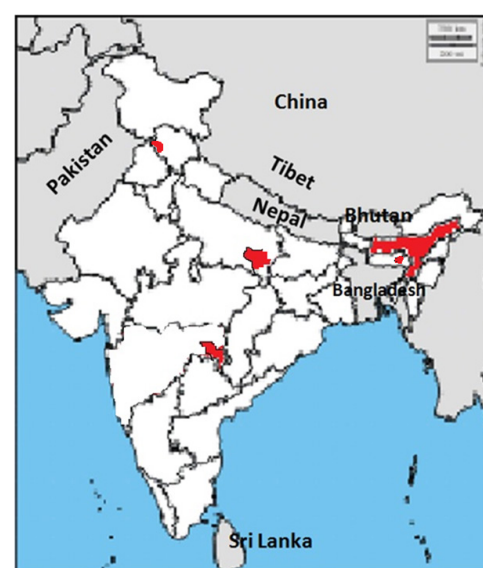
Dr Sita Thakur

Professor and Head, Department of
Obstetrics & Gynaecology



**Dr Omesh Kumar Bharti
(Padma Shri)**

State Epidemiologist,
State Institute of Health
and Family Welfare,
Department of Health
& Family Welfare,
Government of Himachal
Pradesh



*Regions covered by the 15 collaborating
hospitals across India*

MaatHRI work-stream updates

Survey of severe pregnancy complications

- Monthly reporting of cases and deaths due to nine severe complications are continuing. Timely reporting needs to improve in some hospitals.

Heart failure in pregnant women

- The average recruitment rate increased over the first 12 months of the study (February-19 to January-20) from about 10 cases per month in the first 6 months to 18 cases per month in the second half of the year.
- 84% of the total pregnant and postpartum women presenting with heart failure in the study hospitals are participants in the study. This is despite a 30% death rate associated with this complication.

Safety of induction and augmentation of labour in pregnant women with anaemia

- The recruitment rate is lower than expected.
- The collaborators are reviewing the monthly recruitment rates and taking all necessary actions to improve recruitment.
- The rate will also go up after the new hospital starts recruiting participants from April/May 2020.

Training and capacity building

Outcomes of 'Training of trainers on collaborative research' organised in Guwahati, Assam on 6 December 2019.

- It generated awareness and knowledge about the opportunities available for national and international collaborative research.
- The participants developed a list of priority research topics and identified areas for research capacity building within the region.
- 98.3% of attendees left wanting to be involved with collaborative research.

"Today's ToT paved the way for further such trainings and networking between personnel of other institutions." (Participant from Tezpur Medical College)

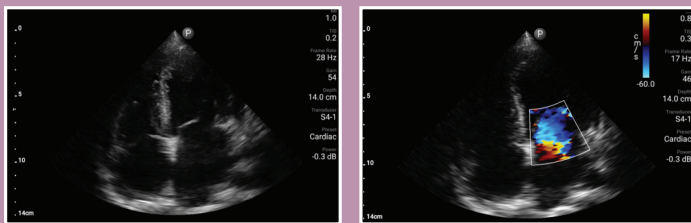
Download the report from

<https://www.npeu.ox.ac.uk/downloads/files/maathri/Reports/MaathRI%20Report%20v1.0%20-%202017-Feb-2020.pdf>



Outcomes of hand-held echocardiography training

10 collaborating hospitals in India now have one or more obstetricians (total 24) trained in acquiring echocardiography images using hand-held (bedside) machines that can be interpreted remotely by experts.



Example of images acquired by trained obstetricians in India

Expert echocardiographers examining the images at Oxford have graded 94-97% of the images to be of medium to high quality (62-78% high quality).

In some pregnant women it is difficult to get good images, especially if a woman also has severe signs/symptoms of heart failure, so the 3-6% of the images noted as poor quality is mainly related to difficulty in scanning some patients.

MaathRI Team

Dr Manisha Nair, University of Oxford (Chief Investigator (CI))

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Prof. (Major) Anjali Rani, Banaras Hindu University, Varanasi, Uttar Pradesh

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Funders:

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Nuffield Department of
POPULATION HEALTH

