

## REPORT

Report of the Fellow who availed Fellowship/Training under Human Resource Development for Health Research.

1	<b>Name and designation of Fellow</b>	Santanu Dutta, Associate Professor
2	<b>Address</b>	Dept. of CTVS, Institute of PG Medical Education & Research, 244, Acharya JC Bose Road, Kolkata 700 020
3	<b>Type of Fellowship and period</b>	Short term HRD scheme of DHR 23rd March- 22nd April, 2015 (1 month)
4	<b>Duration of fellowship</b>	1 month
5	<b>Frontline area of research in which Training /research was carried out</b>	Paediatric and Neonatal Cardiac Surgery
6	<b>Name &amp; address of mentor and host institute</b>	Prof. Glen Van Arsdell, Division of Cardiovascular Surgery The Hospital for Sick Children Toronto, Canada
7	<b>Highlights of work conducted</b>  (i) <b>Technique/expertise acquired:</b>  ii) <b>Research including any papers, prepared/submitted for publication</b> (Give in about 300 words)	(i) I have observed different techniques of congenital heart surgeries particularly complex cyanotic congenital heart surgeries I have attended 2015, spring work weekened organized by the congenital heart surgeon's society (CHSS) at Research tower and hospital for sick children, Toronto, Canada.  (ii) Infant death due to congenital heart disease is the third common cause of infant mortality in India. By developing paediatric and neonatal cardiac surgery centre equipped with all the advance instrument and facilities we can number of neonatal and paediatric cardiac surgery cases and improved the techniques of this complicated surgeries. As a result we can prevent the morbidity and mortality associated with the neonatal and cardiac surgeries. To know the basic of congenital heart disease we have started gene studies (D.N.A) in our centre. for this purpose we are planning to creat a biobank of DNA and tissue samples from individual with heart disease and healthy individuals for future research. for the research purpose a small blood sample (5-20cc) or a sample of saliva (2-4ml) for genetic factor. For disease cases fibroblast from incision site or small bit of cardiac tissue is to be removed during surgery. This database will provide a scientific approach with a solid background based on genetics

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		<p>for developing new diagnostic tool as also develop alternative treatment strategies that could changed the current mode of management of congenital heart disease in future.</p> <p>A publication is being prepared.</p>
	<p>iii) <b>Proposed utilization of the experience in the Parent Institute. (Please specify the project developed whether originally proposed/ new project):</b></p>	<p>(iii) A global study of genetics of congenital heart disease will be undertaken.</p> <p>In collaboration with National Institute of Biomedical genomics, Kalyani, along with department of Neonatology and Paediatrics and Paediatric Cardiology a collaborative project will be submitted shortly.</p>

*Santaram Datta*

Signature of Fellow