

Brün - A Feto-Maternal Monitoring Device

A Feto-Maternal Monitoring Device has been developed under Department of Biotechnology (DBT), Ministry of Science and Technology, Government of India supported Stanford India Biodesign (SIB) Programme by a multidisciplinary team of SIB fellows comprising clinicians, engineers and product designers, under the guidance of faculty members from AIIMS and IIT-Delhi. The SIB programme is a Biomedical Technology Innovation Programme of the DBT, implemented at AIIMS and IIT-Delhi in collaboration with the Stanford University, USA and partnership with Indo-US Science and Technology Forum. Biotech Consortium India Limited (BCIL) with necessary experience and expertise in IP Management and Technology Transfer has been engaged by DBT as the management agency for this programme.

Brün - a technology for monitoring the feto-maternal vitals during labor has been developed at SIB by Anirudh Chaturvedi, Dr. Prashant Jha and Balaji Teegala during their fellowship in the year 2013. Dr Neerja Bhatla, Prof. and Head, Gynecologist & Obstetrician, AIIMS was associated in the development of the technology as faculty Inventor. The device was developed under the expert mentorship and guidance of Dr. Balram Bhargava, Professor of Cardiology, Executive Director, SIB, AIIMS and Dr Alok Ray, Executive Director, SIB. This technology will provide for an easy to use and cost effective tool to monitor vital parameters of the



mother and fetus during labor. It will also simplify data interpretation by plotting a WHO mandated graph of the progress of labor with minimal input from healthcare providers. The use of such a tool will enable objective decision-making by physicians and greatly reduce the burden on staff members who would otherwise have to monitor the vitals every 5 minutes. The monitoring of these parameters would help in early diagnosis of fetal distress and therefore help in preventing “still births” in low and middle income countries which currently stands at around 3 million (according to WHO*). The cost effectiveness of the device would ensure its availability at all tiers of healthcare in India and globally.

The technology for Brün is being licensed by BCIL to M/s. Brun Health Private Limited, a startup company co-founded by Mr. Anirudh Chaturvedi, Mr. Balaji Teegala and Dr. Prashant Jha for further development and commercialization in both India as well as rest of the world. Brun Health has plans to develop the product and carry out the requisite clinical test and procure regulatory and safety certifications for validating the device in AIIMS and other hospitals across the country. BCIL worked very closely with the Inventors and has developed robust milestones so that team works diligently to enable commercial launch of the product in India by March, 2017.

*<http://www.who.int/bulletin/volumes/91/5/12-111021.pdf>