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SNBNCBS develops novel device for screening bilirubin in new-borns

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The operation of the device is based on non-contact and non-invasive spectrometry-based techniques



Professor Samir K. Pal & his group at S.N. Bose National Centre for Basic Sciences (SNBNCBS), Kolkata, an autonomous research Institute under the Department of Science and Technology (DST), Government of India has developed a device called 'AJO-Neo'.

The operation of the device is based on non-contact and non-invasive spectrometry-based techniques for measurement of neonatal bilirubin level as an alternative of total serum bilirubin (TSB) test without limitations of other available bilirubin meters.

According to the study conducted by the SNBNCBS team in NRS medical college, the newly developed device is reliable in measuring bilirubin levels in preterm, and term neonates irrespective of gestational or postnatal age, sex, risk factors, feeding behavior or skin color.

The device is found to deliver an almost instantaneous report (about 10 seconds) to a concerned doctor, who is sitting 10000 km away from the point of care. This is a significant achievement compared to the conventional “blood test” method, which may take more than 4 hours to generate the report.

The Technology has been transferred by the National Research Development Corporation (NRDC), Ministry of Science and Technology, Government of India in the presence of Prof. Ashutosh Sharma, Secretary, DST to a Vijayawada based company, M/s Zyna Medtech Private Limited.