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### Now a smartphone to scan placenta to predict health of mom, newborn

A team of researchers has developed an Artificial Intelligence (AI)-based novel solution that could produce accurate, automated and near-immediate placental diagnostic reports via a smartphone or a tablet with the appropriate software.



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*Now a smartphone to scan placenta to predict health of mom, newborn*

A team of researchers has developed an Artificial Intelligence (AI)-based novel solution that could produce accurate, automated and near-immediate placental diagnostic reports via a smartphone or a tablet with the appropriate software. Placentas can provide critical information about the health of the mother and baby but the cost, time and expertise required to analyze them are prohibitive. The research could allow all placentas to be examined, reduce the number of normal placentas sent for full pathological examination and create a less resource-intensive path to analysis for research -- all of which may positively benefit health outcomes for mothers and babies.

"The placenta drives everything to do with the pregnancy for the mom and baby, but we're missing placental data on 95 percent of births globally," said Alison Gernand, assistant professor of nutritional sciences in Penn State's College of Health and Human Development.

The study was presented at the International Federation of Placenta Associations meeting held in Buenos Aires, Argentina recently.

The patent-pending technology uses AI to analyze an image of each side of the placenta after delivery and then produces a report with critical information that could impact the clinical care of the mother and child, such as whether the fetus was getting enough oxygen in the womb or if there is a risk of infection or bleeding.

This digital tool could offer a solution, as an individual would need only a smartphone or tablet with the appropriate software.

"Even in very low-resource areas, someone typically has a smartphone," said Gernand. "Our goal is for a medical professional or trained birth attendant to take a photo which, after analysis through licensed software, could provide immediate information that aids in the care of the mother and baby."

For example, an umbilical cord with an abnormal insertion point or excessive twisting can be a predictor of neonatal stroke. Examination after a stillbirth could give a family information about whether future stillbirths may reoccur and help medical professionals advise them on possible interventions.

To create the system, the researchers analyzed 13,000 high-quality images of placentas and their corresponding pathology reports from Northwestern Memorial Hospital.

They labeled a training set of images with data points critical to understanding the placenta, such as areas of incompleteness and the umbilical cord insertion point.

Additionally, this tool could advance pregnancy research and be useful for long-term care by providing clinically meaningful information to patients and practitioners, said the researchers.

PLACENTA

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