BabyMoves

An innovative screening tool using the General Movements Assessment

Background

The General Movements Assessment (GMA) is a method of evaluating infant's spontaneous movements that occur in early infancy, up until 20 weeks of age. Infants with abnormal general movements have a higher risk of neurological issues, such as cerebral palsy, or other developmental problems.

The best time to use the GMA to screen infants who are at-risk for neurological issues is when they are between 12-16 weeks old. However, access to GMA initial screening can be difficult due to a lack of trained GMA clinicians, particularly for parents living in remote areas.

Our Solution

BabyMoves is a smartphone app that has been developed to improve access to GMA screening infants at-risk of neurodevelopmental issues. Parents can upload a video of their infant to a secure database, where trained GMA professionals will assess the infant's movements and determine if further developmental assessment is needed.

Key Features

- **Easy video upload:** The BabyMoves app provides easy to follow instructions for parents to record and upload a 3 minute video for assessment
- **Remote General Movements Assessment:** Videos uploaded using BabyMoves can be analysed without a face to face assessment
- **Reminders:** The app sends notifications to parents to video their infant at 12 and 14 weeks of age

- **Secure Database:** All videos uploaded via the BabyMoves app are securely delivered to a Murdoch Children's Research Institute (MCRI) hosted database.
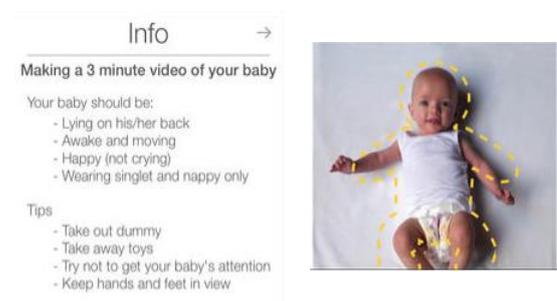

Figure 1: BabyMoves easy to follow instructions for video recording and upload.

Research Applications

BabyMoves provides researchers with an innovative screening tool for detecting early signs of neurological issues in at-risk babies, and thus the ability to provide the best access to early intervention vital to maximise positive outcomes.

BabyMoves is available for research use and is currently being used in research studies across the world. Video data is stored in MCRI's REDCap database, however if preferred, BabyMoves can be configured to store data in your organisation's REDCap database.

Research license fees are calculated on a study-by-study basis and vary depending on the number of participants, if video scoring is required (single or double scoring available), and if data storage is required. Licensing fees support the hosting and updates associated with the ongoing maintenance of the app.

Related Publications

Kwong et al. (2018). *Journal of Paediatrics and Child Health*. doi:10.1111/jpc.14240
Spittle et al. (2016). *BMJ Open,* 6(1)

Further Information: for more information on BabyMoves or for research pricing and access please contact:

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