

Improving Patient Monitoring

Problem

Address the challenge in monitoring neonates for vital signs in critically ill babies. Potentially extend to monitoring patients for post-operation, epidemics, mass casualties and malaria peak season.

Proposed Solution

Test a new, affordable wearable device to monitor vital signs for neonatal patients for pulse rate, respiratory rate, peripheral blood oxygen saturation, and temperature. Conduct a feasibility study to assess application in other patient situations.



Potential Impact

- Potentially reduce mortality and morbidity of patients by improving monitoring
- Increase medical care efficiency, achieving a better outcome with less resources

Viability

- Leverages the Japan Innovation Centre capabilities and resources; applies a Human-centered approach to development

Risk Mitigation

- Support from OCP on the study protocol and a mission for testing; Uses a proof of concept for a better monitoring solution

Scalability

- Collaborative approach to sharing project progress and results increases scaling potential

Area/Type: Medical R&D; Incubator

Sponsor/Support: MSF Japan

Length/Project Status: 12 months; **Conditional Approval**