

Successes and challenges using simulation in Tanzania to improve health worker performance; Pediatric perspective

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Context

- Tanzania 55.5 million, low Income Country
- Current MMR = 556/100,000; NMR = 67/1000^{1,2}
- Highest prevalence in Lake Zone
- Provision of Basic Emergency Management of Obstetric and Newborn Complications to health providers (BEMONC)
- Training for health providers

Description

- Mama na M'Toto is an partnership including developed by University of Calgary and the Catholic University of Health and Allied Sciences
- Comprehensive package of maternal and newborn health. Intervention includes:
 - Training health workers (n = 107) in BEMONC: Using simulation enhanced modules
 - Training of trainers (n = 24)
 - Train select providers in in advanced BEMONC (n=10)
 - Training mentors to support ongoing health provider practice at selected sites (n = 5)
 - Establishing simulation practice stations (n = 6)
 - Core modules integrate Helping Mothers Survive and Helping Babies Breathe Survive modules
 - Added expected management checklists
- Tracking logs for each site to capture practice

Timeline

- March 2017
 - Train health workers from Misungwi district (population 400,000) May 2017
 - Select 6 Misungwi facilities to host simulation practice stations
 - Equip with Mama Natalie and Neonatalie practice kits
 - Train health workers in BEMONC
 - Train of Trainers/Mentors (3 days)
 - Identify simulation site leaders: 1-2 per site
- October 2017: Review progress - Modify current curricula
- March 2018: Field test new peer learning cards: Discuss incentives



Observations

- Enthusiastic trainers
- Anecdotal reports of improved APGAR scores and decreased in maternal deaths
- Posted practice schedules at all sites
- Learners only using checklists
- Challenge for mentors to visit sites
- Challenge to engage site staff in training (want monetary incentive)



Discussion

- Dependence on trainers/mentors for ongoing practice is challenging
- More emphasis now on peer to peer learning:
 - New Peer Learning Cards Field Tested (March 2018)
- Personal and facility level incentives
 - Dashboards for employee with most practice sessions monthly
 - Facility Dashboards identifying # of health workers attending training
- New tracking log books

Acknowledgements

- Mama M'Toto Project Team (Mwanza)
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- CUHAS Project staff
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References

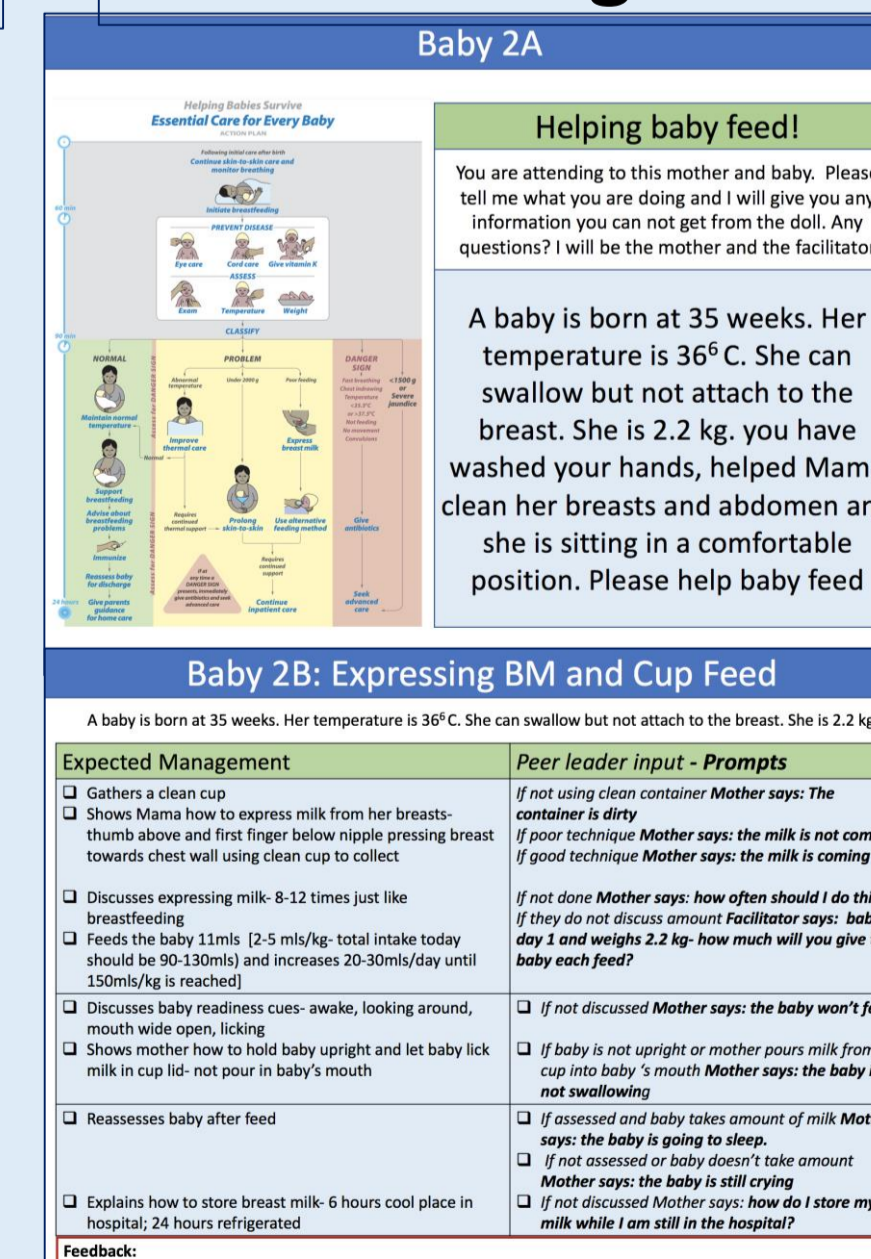
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Simulation Practice Stations

Simulation Site



Peer Learning Cards



Practice Stations

