



Simulation based training for fetal interventions - preliminary experience

Asma Khalil, Renato Xiemens, Smriti Prasad, Nashwa Eltaweel, Rogelio Cruz Martinez

Fetal Medicine Unit, St George's University Hospital, London, UK; Vascular Biology Research Centre, Molecular and Clinical Sciences Research Institute, St George's University of London, London, UK; Director, FMFLA, Latin American Fetal Medicine Foundation University hospital of Coventry and Warwickshire; Fetal Medicine and Surgery Center, Medicina Fetal Mexico, Queretaro, Mexico

INTRODUCTION

- Fetal interventions can be basic or advanced
- Procedures are infrequent, long learning curve
- First fetoscopic simulation course in the UK/Europe
- Simulation models have been used in obstetrics PROMPT

STRUCTURE OF THE COURSE

Eligibility: Trainees undertaking maternal fetal medicine module Obstetricians practicing fetal medicine Limited to 15 participants

GLIMPSES OF THE COURSE



Duration: 2 days

Day 1 – Basic diagnostic procedures Day 2 – Advanced therapeutic procedures

Delivery: Hybrid approach

Flexible – depending on training desired Theoretical lectures followed by hands on practice

Faculty: Fetal therapy experts from UK and Brazil

- **Incentive:** Trainees from UK and LMIC settings, discounted prices
- Models: High fidelity simulation models for amniocentesis, chorionic villus sampling, fetoscopic laser ablation, fetoscopic cord occlusion, fetoscopic spina bifida repair and FETO for diaphragmatic hernia

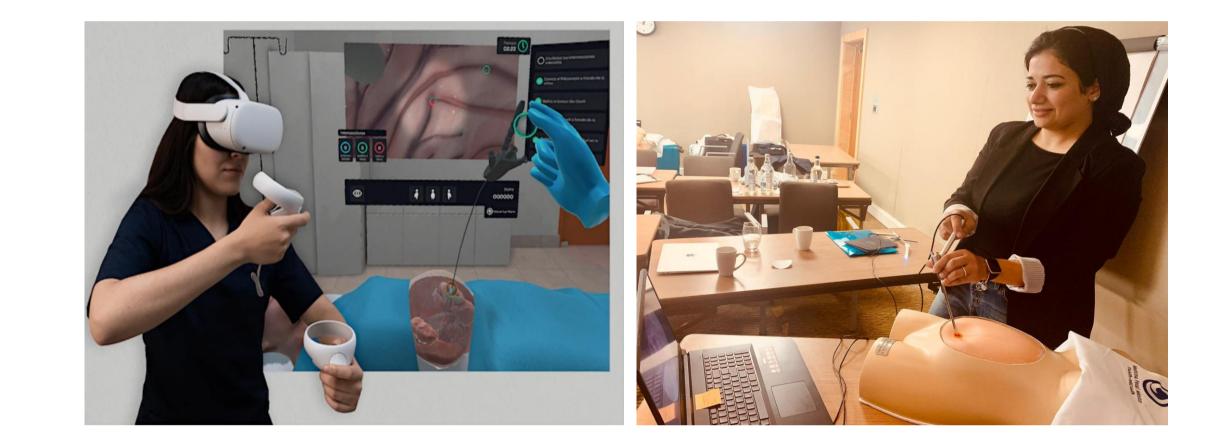
Assessments: Multiple choice question-based assessment, followed by feedback and certificates.

FEEDBACK

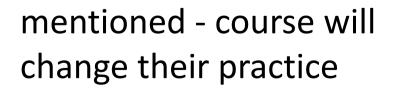
100% attendees

"Different approach altogether for beginner like me to learn fetoscopic









92% stated - course was value for money

90% stated - quality of simulators was excellent



CONCLUSION

- Simulation training is particularly valuable for infrequent and risky procedures as those performed on the fetus.
- ✓ Low-cost, self-assembled and recyclable simulation models can be used for acquirement of core skills in fetal invasive procedures

 ✓ Well received and excellent feedback – second edition was organized within 3 months of this pilot project.