

# INNOVATIVE TRAINING MODULES IN OBSTETRICAL EMERGENCIES

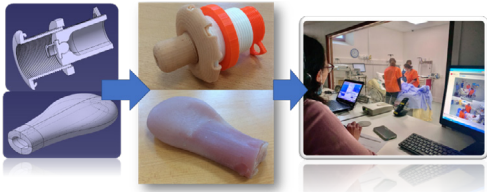
Development of modules and their usage scenarios for caregivers training in obstetrical emergencies.

**ERG\NEO**

L'AVENIR EST FAIT D'AUDACE

## PRESENTATION

Prematurity is the leading cause of death in children under five; each year, approximately 15 million babies are born prematurely all over the world. Prematurity exposes the child and the mother to an increased risk of morbidity and death when the caregivers are not trained in specific care. The research team has developed 2 innovative training modules for training in obstetrical emergencies. The first module is a uterine cervix module created to simulate different configurations of cervical effacement. This automated training tool will allow the simulation of emergency or daily clinical situations related to pregnancy, in particular the threat of premature delivery. The second module is a 3D printed "uterine body". The training module reproduces different scenarios to treat hemorrhages during childbirth (suture, intrauterine tamponade balloon) in order to improve professional practices and reduce maternal morbidity and mortality.



Threat of Preterm Labor (TPL) - Simulation Module - Childbirth  
Women's Health - Caregiver Training

## APPLICATIONS

- Gynecological training module for hemorrhage surgery gesture
- Gynecological training module to detect cervical narrowing and threat of premature delivery

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## COMPETITIVE ADVANTAGES

- Dynamic simulation of a threatened premature delivery situation with an automated module controlled remotely
- Both modules can be adapted to different delivery manikins (high and low fidelity)
- Haptic sensations are reproduced in order to simulate the sensations obtained by palpation of real biological tissue

## DEVELOPMENT PHASE

- ✓ Prototypes have been developed and tested during training sessions by physicians and students with positive outcomes compared to other training modules

## INTELLECTUAL PROPERTY

2 patents submitted in 2021