



# Proposed Obstetric Ultrasound Training Model for Medical Students Using CAEVimedix Catherine Female Manikin



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## INTRODUCTION

Obstetric ultrasound is an important tool that practitioners should be adequately trained in; therefore, effective training and proper educational resources are necessary for teaching ultrasound to medical students.

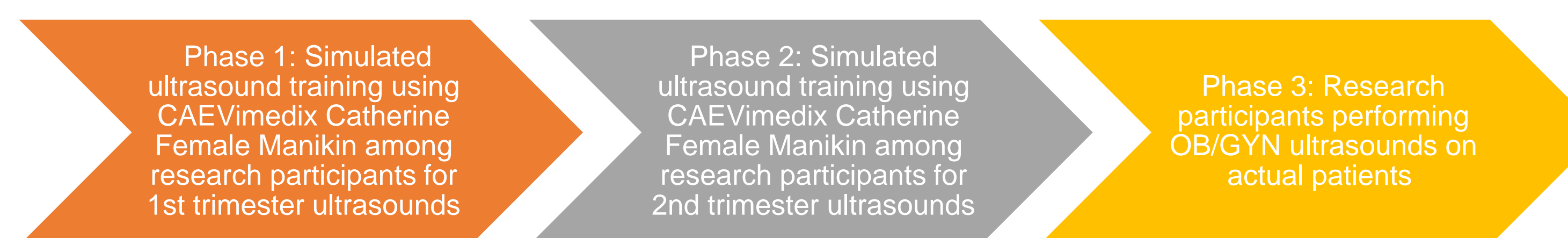
The CAEVimedix Catherine Female Manikin allows for the simulation of both transabdominal and transvaginal ultrasounds in first and second-trimester pregnancy.

## OBJECTIVES

This study aims to assess the effectiveness of the CAEVimedix Catherine Female Manikin as an educational resource in training medical students to perform obstetric ultrasounds within the first and second-trimester pregnancy and to develop a proposed obstetric ultrasound training model.

## METHODS

Noorda-COM medical students will be recruited through survey to participate in the ultrasound training. The training will target transabdominal ultrasound techniques for gestational weeks 8, 12, and 24.



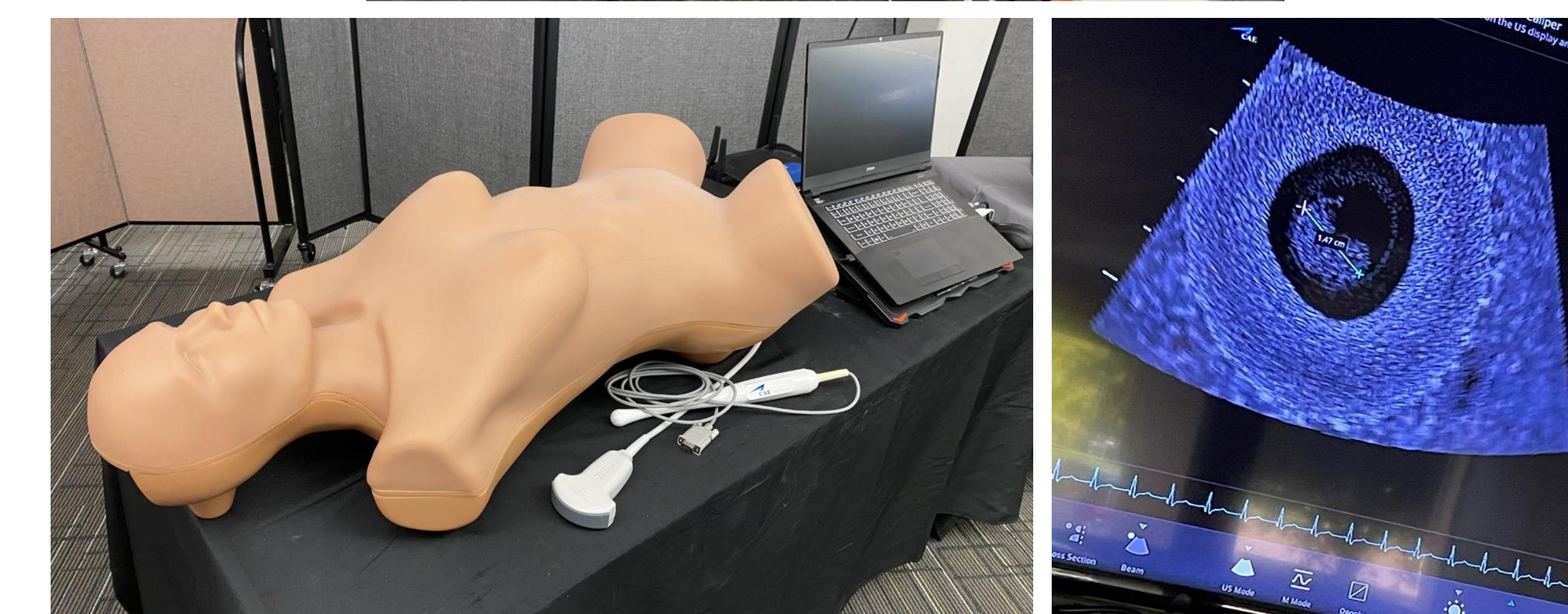
The number of training hours, identification of key structures, and length of time to identify each key structure per student will be collected.

Statistical analysis will be performed to observe trends amongst the trained medical students regarding identification and speed of finding specific milestones in each week.

Each student's progress and proficiency will be tracked to determine the optimal duration of training on the CAEVimedix Catherine Female Manikin for effectiveness in performing first- and second-trimester OB/GYN ultrasounds.

## RESULTS and CONCLUSION

We hypothesize that this proposed model using the CAEVimedix Catherine Female Manikin will be an effective OB/GYN ultrasound training module for medical students.



**Figures**  
Top: Research group; Bottom Left: CAEVimedix Catherine Female Manikin; Bottom Right: Example identification and measurement of key structure (crown rump length)

## REFERENCES

- Hani, S., Chalouhi, G., Lakissian, Z., & Sharara-Chami, R. (2019). Introduction of Ultrasound Simulation in Medical Education: Exploratory Study. *JMIR medical education*, 5(2), e13568. <https://doi.org/10.2196/13568>
- Mohammad SH, Sommerich CM, Butwin AN, Evans KD. Assessment of OB/Gyn Residents' Knowledge of Basic Obstetric Sonography and Psychomotor Skills Posttraining on a Computer-Based Simulator. *Journal of Diagnostic Medical Sonography*. 2022;38(1):5-17. doi:[10.1177/87564793211052039](https://doi.org/10.1177/87564793211052039)