Manual vacuum aspiration (MVA) is quicker, safer, and more comfortable than other available treatments for first term miscarriage.

Current MVA training methods are inadequate.

Unlike current training models, this design includes:
- Replaceable uterine contents
  - Viscosity of simulated clotted blood = ± 15% of tested values
- Dilatable cervix & local anesthetic training
  - Cervix recovery time > 3 min
- Uterine wall with accurate haptic feedback
  - Texture
  - Stiffness: 586-1207 kPa

Recovery time of cervix prototypes: 62.4 ± 12 s

STIFFNESS OF CANDIDATE UTERINE WALL MATERIALS UNDER 0-40% STRAIN

0.2
0.3
30 Shore A
50 Shore A

MAIN IMPACT
Increase in medical personnel able to perform MVA will benefit patients.