Can the uterocervical angle predict spontaneous preterm birth in pregnant patients with a history of cervical conization?

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Background:
- Recent studies have proposed measuring the uterocervical angle (UCA) on transvaginal ultrasound (TVU) to predict spontaneous preterm birth (PTB).
- UCA = Angle between endocervical canal and lower uterine segment.

Objectives:
- To determine whether the UCA correlates with spontaneous PTB in pregnant patients with a history of cervical conization.

Methods:
- Retrospective cohort study 2010-2017
- Inclusion:
  - 295 Singleton pregnancies
  - History of cervical conization
  - TVU at 16+0 – 23+6 weeks
- Exclusion:
  - 14 for Medically indicated PTB
  - 5 for Cerclage in place
  - 3 for Cervix dilated/funnelled
  - TVU images were re-measured by 2 sonographers for the UCA

Results:
- 207/295 (70%) included
- 88/295 (30%) suboptimal images for UCA

Conclusions:
UCA did not correlate with spontaneous PTB <37 weeks in pregnant patients with a history of cervical conization.