THE SHORT OF IT: A RETROSPECTIVE AUDIT OF COMPLIANCE WITH RANZCOG TRANSVAGINAL ULTRASOUND **RECOMMENDATIONS FOR THE PREVENTION OF PRETERM BIRTH** Fox, M.^{1,2}, Lu, C.^{1,3}, O'Brien, C.^{1,3}

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Introduction

- Preterm birth (PTB) remains a preventable cause of mortality in infants.
- Shortened cervical length is a risk factor for PTB which is amenable to effective intervention, such as progesterone or cervical cerclage $^{(1,2)}$.
- RANZCOG supports transabdominal screening of low-risk women with singleton pregnancies at the midtrimester scan, with additional transvaginal assessment for those with a short cervical length $(<35mm)^{(3)}$.
- Townsville Hospital University (TUH) is а that services unique tertiary centre а and population with maternal-fetal medicine complex and neonatal intensive care departments.

Aims

- RANZCOG Determine compliance • Primary: with recommendations for transvaginal scanning.
- Secondary: Compare mean cervical length at midtrimester scan for preterm gestation categories.

Methods

Data was extracted from the integrated electronic medical record. Cervix length was retrospectively documented for the spontaneous singleton preterm cohort of 2021.

Results

Transvaginal

Transabdomi

Conclusions

References

- 2016;387:2106-16 2.
- 3.

• 18 percent of mothers who experienced a spontaneous singleton preterm birth had a midtrimester transabdominal ultrasound showing cervical length <35mm, but did not receive a transvaginal ultrasound; this group comprised both public and private, regional and metropolitan imaging providers.

The average cervical length on transvaginal ultrasound at morphology was similar for births at extremely, very and moderately preterm gestations.

	Extremely PTB (22+6 – 27+6)	Very PTB (28 – 31+6)	Moderately PTB (32 – 33+6)	Late PT (34 – 36-
	15.2 mm	19.0 mm	15.0 mm	30.4 m
inal	45.6 mm	36.2 mm	37.9 mm	40.8 m

Table 1: Average cervical length at midtrimester scan by preterm birth gestation.

• We identified missed opportunity for accurate transvaginal recognition and intervention in women who had a shortened cervix via transabdominal imaging at the midtrimester scan. Barriers to transvaginal ultrasound include accessibility for rural and remote women (potentially limited by availability of equipment), time restrictions of sonographers, and limited awareness on when transvaginal scanning is indicated.

Strategies to increase compliance with RANZCOG recommendations include education sessions for both radiology and obstetric departments.

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