

YOUNGER PRIMIPAROUS WOMEN AT A TERTIARY HOSPITAL

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Background

Pregnancies at advanced maternal age (AMA) have been associated with higher risks of medical comorbidities, complications in pregnancy, as well as labour and birthing complications¹. With more and more women having children at a later age, maternity service providers must be aware of the risks associated with pregnancies of AMA.

Objective

To assess the relationship between advanced maternal age (≥35 years old) and adverse perinatal outcomes in primiparous women.

Results

During the study period, there was a total of 1,827 births.

- AMA group = 48 women (2.6% incidence) Control = 89 women randomly selected

Variables

Instrumental delivery

Mean gestational age

Mean birthweight (g)

at delivery (days)

Caesarean section

Preterm birth

Admission to

SCN/NICU

SGA

Variables	(n = 48)	(n = 89)	1 Value
Booking BMI >35	9 (18.8%)	13 (14.6%)	0.530
Use of ART	8 (16.7%)	3 (3.4%)	< 0.05
Midwifery-led care	8 (16.7%)	29 (32.6%)	< 0.05
Induction of labour	18 (37.5%)	41 (46.1%)	0.335
Failed induction	5 (10.4%)	1 (1.1%)	< 0.05
		11	

7 (14.6%)

21

(43.8%)

9 (18.8%)

269 (13)

3084

(546)

9

9 (18.8%)

AMA

Control

(12.4%)

19

(21.3%)

4 (4.5%)

274 (10)

3282

(490)

14

13

(14.6%)

P-value

0.714

< 0.01

< 0.05

< 0.05

< 0.05

0.747

0.530

Method A retrospective study was conducted at Lyell

McEwin hospital, a tertiary hospital in Adelaide, South Australia. It included women who delivered from January to June 2017 (6 months), comparing singleton pregnancies of primiparous AMA women to women aged 25-29 years old (control). Data collected included maternal demographics, pre-existing medical conditions, use of assisted reproductive technology (ART), complications in pregnancy, labour and delivery outcomes, as well as neonatal outcomes. The SSPS

Conclusion

software was used for statistical analysis.

When compared to the younger population, pregnancies of AMA were more likely to experience poorer perinatal outcomes, such as preterm birth, failed inductions, and higher rates of caesarean sections.

> Due to increased preterm births, the infants of AMA mothers were delivered 5 days earlier and 200grams lighter than the control group, but no significant difference was found for rates of SGA or nursery admission.

A cohort study with a larger sample size is likely to support the relationship between AMA and

adverse perinatal outcomes. Clinicians involved in providing maternity care need to be familiar of the increased risks of complications associated with AMA pregnancies and be more vigilant of the older primipara.

References

1. Ludford I, Scheil W, Tucker G, Grivell R. Pregnancy outcomes for nulliparous women of advanced maternal age in South Australia, 1998-2008. Aust NZJ Obstet Gynaecol 2012;52:235-241.