



# Retention in opioid agonist treatment following childbirth and associated factors

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The Difference is Research

# Background

- Opioid agonist treatment (OAT) using methadone or buprenorphine is the gold standard for managing opioid use disorder<sup>1</sup>
- Women giving birth are recommended to continue OAT after childbirth<sup>2</sup>
- However, there is a paucity of research into OAT retention after childbirth

### Aims

- 1. Quantify retention in OAT at 90 days, 180 days and 365 days following childbirth
- 2. Examine retention variation according to sociodemographic, OAT, maternal health and birth outcome characteristics

## Methods

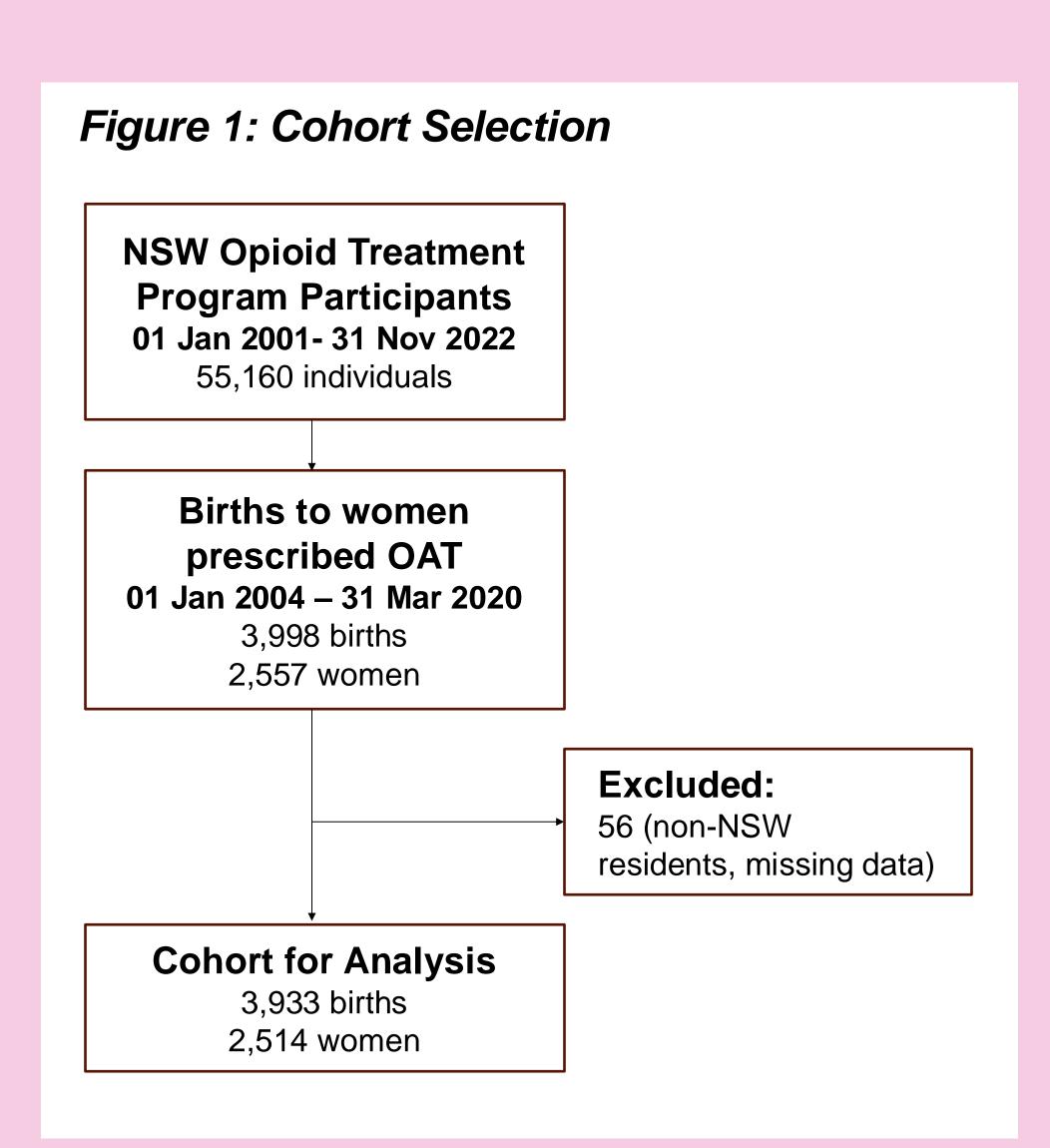
We linked OAT data to perinatal records for births between **01 Jan 2004 and 31 March 2020** in New South Wales (NSW).

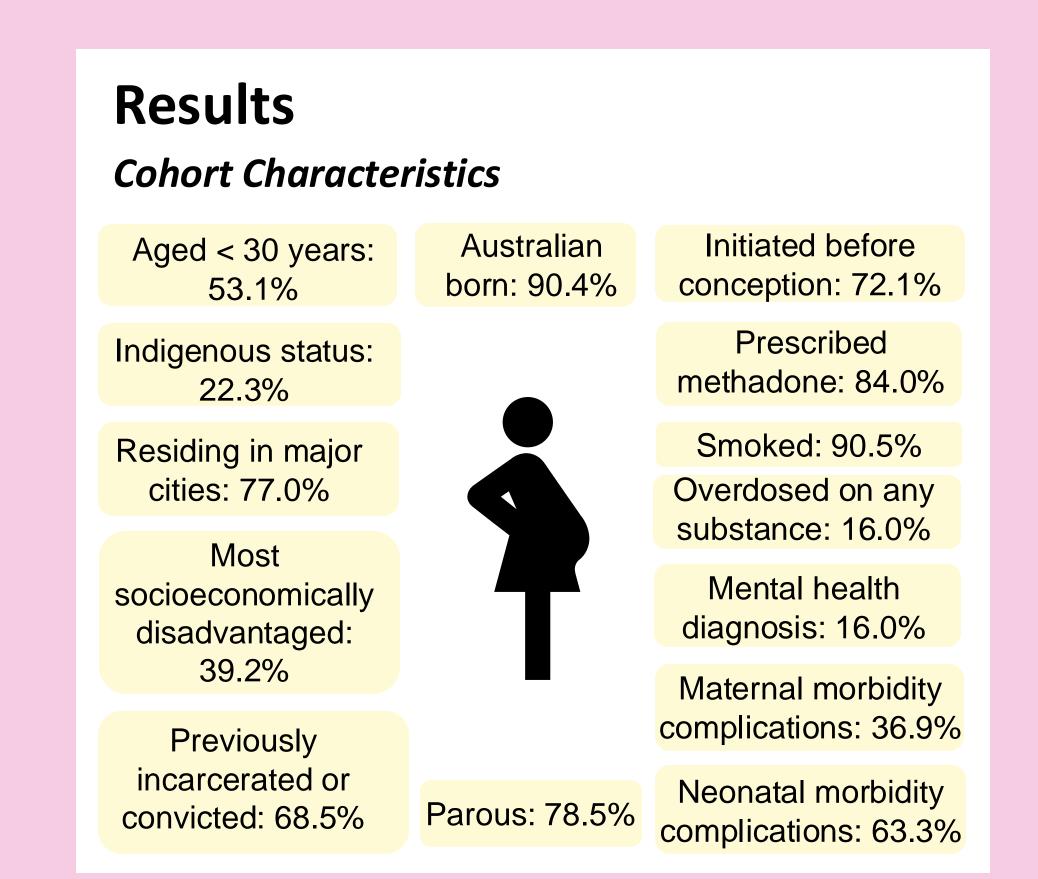
#### **Outcome:**

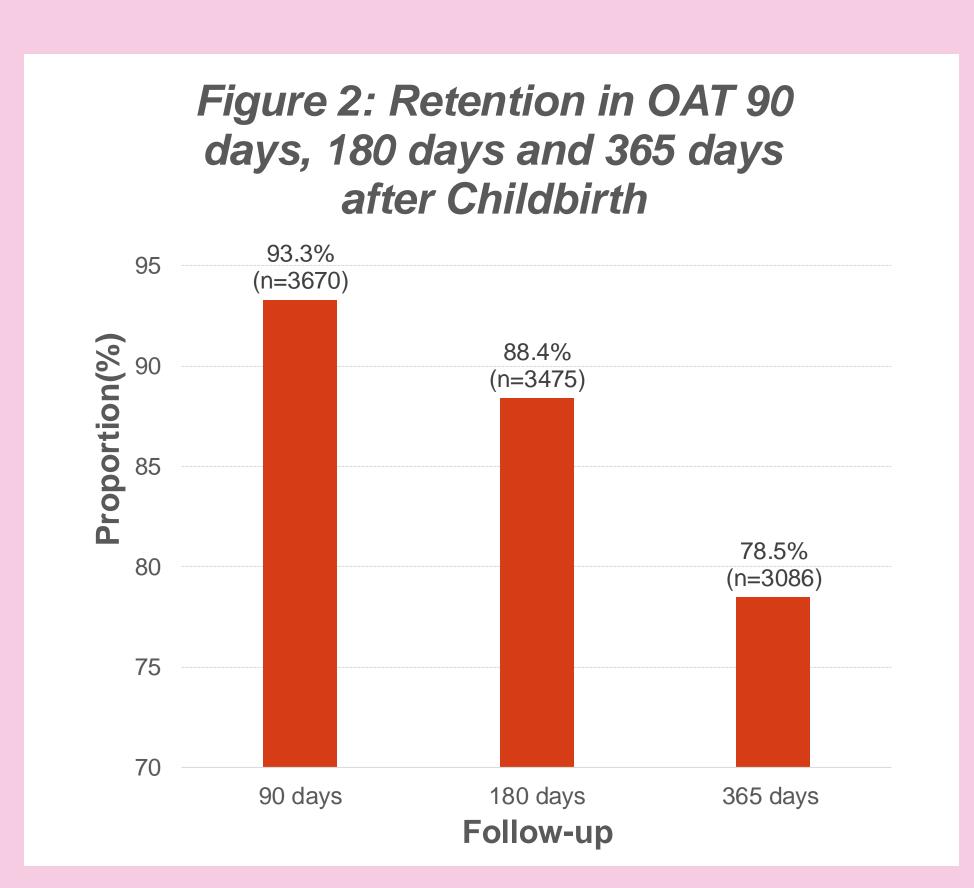
- We defined retention as continuous OAT
   (no break ≥7 days, except no break ≥37
   days for buprenorphine in custody since
   September 2019) in 90 days, 180 days and
   365 days after childbirth
- Follow-up was censored if the woman died or conceived in the respective timeframe

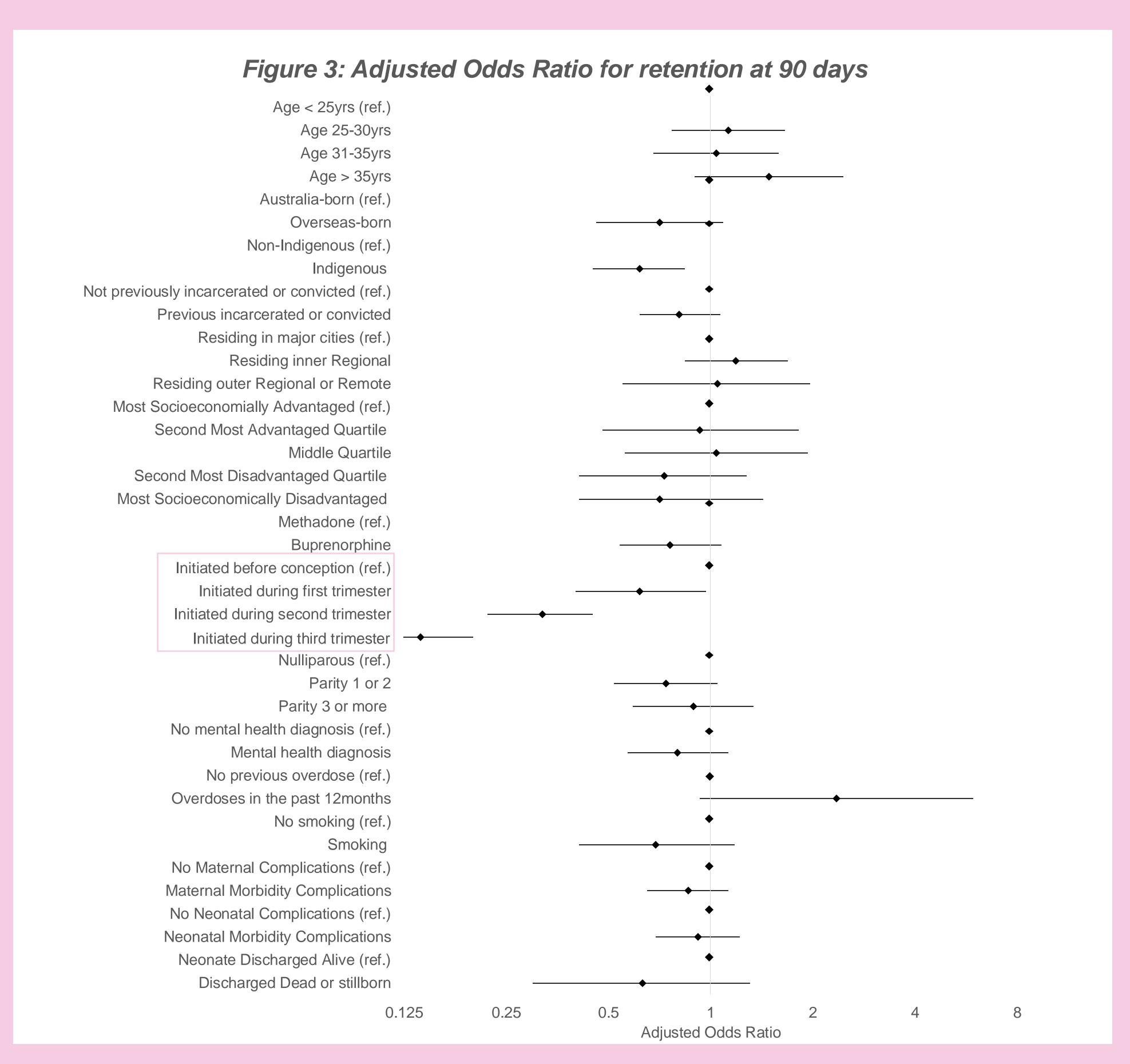
## **Statistical Analysis**

- Childbirths were the unit of analysis
- We calculated **proportions** of childbirths to women retained at 90days, 180days and 365days
- We calculated crude and adjusted odd ratios (OR) and 95% CI using generalised linear modelling, adjusting for multiple childbirths per woman









# Conclusion

- Retention rates in this cohort were relatively high
- Moderate variations existed amongst different sociodemographic, maternal health and birth outcome characteristics.
- Substantially greater retention was associated with early OAT initiation
- Targeted interventions should focus on enhancing OAT access across all women of reproductive age with OUD and improving contraception awareness

## References

- 1. Foo, L., Frei, M., & Lubman D. Managing opioid dependence in pregnancy. *Australian Journal for General Practitioners*. 42, 713-716 (2013).
- 2. American College of Obstetricians and Gynecologists. Opioid use and opioid use disorder in pregnancy. https://www.acog.org/clinical/clinical- guidance/committee-opinion/articles/2017/08/opioid-use-and-opioid-use- disorder-in-pregnancy# (2017).