COMPARISON OF OUTCOMES IN SECOND-STAGE CAESAREAN SECTION WITH AND



WITHOUT A TRIAL OF INSTRUMENTAL DELIVERY IN THEATRE

INTRODUCTION

The increasing rates of second-stage Caesarean sections (CS) and corresponding decline in instrumental delivery are deemed to be attributed to fear of the clinical and litigious outcomes. 1 As CS at full dilatation is perceived to be more complex with higher morbidity and mortality, our study was designed to analyse the maternal and neonatal outcomes from second-stage CS with and without a trial of instrumental delivery (TOID).

METHOD

A retrospective observational study of all term, singleton, cephalic second-stage CS with and without a TOID in the operating theatre (OT) was conducted from 2013 to 2018 at the Royal Brisbane and Women's Hospital. Women were classified into two groups: failed TOID (study) and emergency second-stage CS without TOID (control). Electronic and paper charts were used. Poor maternal delivery, puerperium and neonatal outcomes were identified.

RESULTS

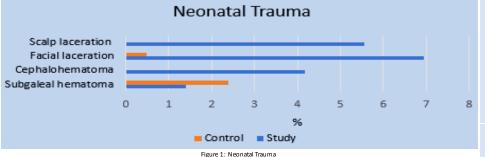
A total of 280 women had a second-stage CS. 72 (25.71%) had a failed TOID in OT before CS. 208 (74.29%) had a CS without TOID.

Maternal length of stay (LOS) > 2days was higher in CS without TOID (99.04% vs. 88.89%) (p<0.001).

Overall, failed TOID before CS was not more likely to result in maternal complications like organ injury (p=0.768), uterine angle extension (p=0.484), ICU/HDU admission (0.089), wound complications (0.19), infection (0.521).

	Study	Control	<i>p</i> -value
Blood Loss (>1L)	12	43	0.619
Uterine Angle Extension	14	33	0.484
Organ injury	1	4	0.768
ICU/HDU	1	0	0.089
Wound Complications	4	5	0.191
Infection	10	23	0.521
LOS (>2 days)	64	206	<0.001
Table 1: Maternal Complications			

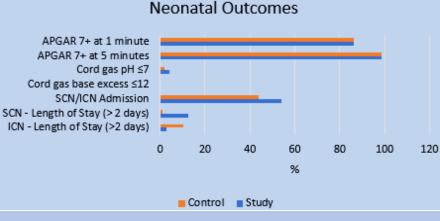
Overall, neonatal injury was significantly higher in failed TOID (p<0.001).



Neonates from CS only had longer ICN admissions >2 days (10.09% vs. 2.78%) (p<0.001).

Neonates from failed TOID had longer SCN admissions >2days (12.5% vs. 0.96%) (p<0.001).

Failed TOID was not more likely to result in abnormal APGARs or cord gases.



CONCLUSION

- 1. Failed TOID before CS was not associated with increased maternal delivery/puerperium complications apart from increased LOS
- 2. Failed TOID before CS was associated with increased neonatal injury and SCN LOS
 - 3. CS without TOID was associated with increased ICN LOS
 - 4. Our study highlights the importance of appropriate judgement and senior guidance for the decision for TOID

1. 1. Black C, Kaye JA, Jick H. Cesarean delivery in the United Kingdom: time trends in the general practice research database. Obstet Gynecol