

Neonatal outcomes of twins according to birth order, presentation and mode of delivery: a systematic review and meta-analysis\*

AC ROSSL\* PM Mullin.\* RM Canal\*

Systematic review 2011

18 studies including 39,571 twin sets
Twins in cephalic/cephalic presentation

Overall, vaginal delivery was safer than CS for the first twin & was as safe as CS for the second twin

No. 361-Caesarean Delivery on Maternal Request

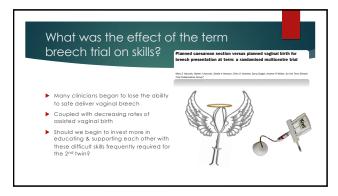
No. 361-Caesarean Delivery on

Vaginal birth:
Some intrapartum considerations

Induction of labour
Noccess
Send group & screen
Continuous electronic fetal monitoring, maternal HR
Fetal scape electrode may assist
Epidural is recommended
Ultrasound: start & end, the 2<sup>nd</sup> twin often flips (20%)
Have asytocin & nitroglycerin at hand for intertwin interval and 2<sup>nd</sup> twin third stage
Send placenta for histopathological exam







Inter-twin delivery interval

Many obstetricians advocate for delivery of the 2nd twin < 15 mins

This was based on old data from as early as the 1950's

The most recent largest studies have shown the 2nd twin's Apgar scores & cord artery pH are not affected when >30 mins

The optimal time interval needs further studies

Low birthweight (<1500g)
or preterm

What is the safest mode of delivery for extreme caphalic/non-cephalic twin pairs? A systematic review and meta-analyses

Some studies suggest CS decreases the risk of intracranial haemorrhage in twins <1500g, regardless of presentation

Systematic review in 2017
Cephalic/non-cephalic twin polis
24+0 to 27+4 weeks?

No significant differences in rates of neonatal death or severe brain injury by mode of delivery
Authors acknowledged available evidence very low quality

Size discordance

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Vaginal birth after cesarean delivery in twin gestations:
A large, nationwide sample of deliveries
Abigail A. D. Ford, MD.\* Brian T. Bateman, MD.\* Lynn L. Simpson, MD.\*\*

Largest series of VBAC attempted in twins

Uterine rupture occurred in 16 of the 1850 women (0.9%)

Comparable to that in singletons undergoing trial of labor (0.8%)

Successful vaginal delivery was achieved in 45% twins & 62% singletons



