Vaginal Birth After Cesarean (VBAC)

A brief intro for HIVE

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VBAC

Planning a Vaginal Birth after a previous Cesarean Birth

Terminology:

- VBAC: Vaginal Birth After Cesarean
- VBAC2C: Vaginal Birth After 2
 Cesareans
- HBAC: Homebirth after Cesarean
- TOLAC: Trial of Labor After a Cesarean

VBAC: Risks & Benefits

Risks

To Birthing Person:

- Uterine Rupture (and resulting sequelae) : 0.5%
- Need for Emergency Csection

To Baby:

Resulting Sequelae from Uterine
 Rupture (morbidity, mortality, etc.)

Benefits

To Birthing Person:

- Fewer Complications d/t surgery
- Vaginal Birth, Breast/Chestfeeding
- Less PP mood disorders

To Baby:

- Greater success breast/chest feeding
- Microbiome development
- Long Term Health benefits

Summary Table comparing Complications from Planned VBAC vs. Planned Repeat Cesarean for people with a history of 1 CS

(source: VBAC CPG Ontario Association of Midwives)

TABLE 2: SUMMARY OF FINDINGS – PLANNED VBAC VS. ERCS AFTER ONE PREVIOUS CS						
Outcome	Absolute risk with planned VBAC	Direction of effect	Relative risk (95% CI)	Source(s)		
	Birthir	ng parent outcomes				
Mortality	0 fewer per 1000 (from 0 fewer to 0 fewer)	Little to no difference between groups	RR 0.53 (0.05-5.08)	(25,26,29–31)		
Uterine rupture*	4 more per 1000 (from 2 more to 6 more)	Risk increased by planned VBAC	RR 4.30 (2.87-6.44)	(25,27–32)		
Hysterectomy	0 fewer per 1000 (from 0 fewer to 1 more)	Little to no difference between groups	RR 1.29 (0.81-2.03)	(25,26,30–32)		
Transfusion	1 more per 1000 (from 0 fewer to 2 more)	Little to no difference between groups	RR 1.21 (1.05-1.40)	(27,29,30,32)		
Intrapartum infection*	22 more per 1000 (from 15 more to 29 more)	Risk increased by planned VBAC	RR 1.59 (1.42-1.78)	(30)		
Postpartum infection	8 more per 1000 (from 0 fewer to 20 more)	Little to no difference between groups	RR 1.44 (0.98-2.12)	(25,26,29)		
	Neonata	al/perinatal outcomes				
Mortality*	1 more per 1000 (from 0 fewer to 2 more)	Risk increased by planned VBAC	RR 2.61 (1.33-5.11)	(25–32)		
Neonatal infection*	5 more per 1000 (from 1 more to 9 more)	Risk increased by planned VBAC	RR 1.40 (1.07-1.83)	(25,26,30–32)		
Apgar score < 7 at 5 minutes*	9 more per 1000 (from 5 more to 16 more)	Risk increased by planned VBAC	RR 2.93 (2.03-4.24)	(25,27,32)		
Transient tachypnea of the newborn (TTN)	3 fewer per 1000 (from 9 fewer to 5 more)	Little to no difference between groups	RR 0.90 (0.70-1.16)	(26)		
Respiratory distress syndrome	2 fewer per 1000 (from 4 fewer to 2 more)	Little to no difference between groups	RR 0.59 (0.26-1.36)	(25,26,30,32,44		

Inclusion Criteria: Planning VBAC & HBAC

18 months between births (previous child by Interval Between Csection is at least 9mo at time of conception) Births Lower segment transverse incision Type of Incision Motivated to plan VBAC and prepare Highly Motivated accordingly If planning home, how close to emergency? **Emergency Services** Understanding of local hospital policies

Increased Success: Planning VBAC & HBAC

Either before or after previous Csection Prior Vaginal Birth At least 24 months between births Delivery Interval Labor starts on its own Spontaneous labor Labor progresses normally Parental age <35, BMI <30, otherwise low risk Low Risk Pregnancy Reason for previous CS does not repeat

Usual Exclusion Criteria: VBAC & HBAC

Incision Type, History

- Classical, T, J incisions, extended incisions
- Single layer closure on previous surgery
- Known uterine dehiscence
- Previous Myomectomy, or other hysterotomy
- Previous Uterine Rupture
- Previous CS <18 months prior

Other Exclusion

- Placenta Previa, Cord Prolapse, Transverse Lie
- Abnormal Placentation
- Obstetrical complication (Pre-E, HELLP, etc.)

Birthplace with VBAC

Home

Intermittent Monitoring

Lower Anxiety (?)

Low Intervention

Midwife attendance

Home tx to Hospital

How will the planned home VBAC be received at the hospital?

- The client?
- You?

Prenatal tx? Labor tx?

Planned Hospital

Continuous monitoring

Lower rates of VBAC

Often encourage epidurals "just in case"

Often have a team on standby for emergency

Lower risk tolerance

Uterine Rupture

The big scary complication we're concerned about with VBAC.

Symptoms:

- Fetal Bradycardia **
- Low BP, High Pulse (Parent)
- Bleeding (Vaginal, Urine)
- Restlessness (Parent)
- Loss of Fetal Station, Meconium
- Abnormal Pain Presentation (difficult to assess in labor)

Likelihood

- VBAC : 0.5% (1 in 200)
- VBAC2C: 1-2% (2-3 in 200)
- CS / ERCS: 0.01% (1 in 10,000)
- Vaginal Birth: 0.02% (2 in 10,000)

Risk Comparison

To understand how often such emergencies happen during labor or birth, let's look at the following table:

Table 1.						
Uterine Rupture ¹	Placental Abruption ²	Umbilical Cord Prolapse ³	Shoulder Dystocia ⁴			
7-8 out of every 1000 VBAC	11-13 out of every 1000	14-62 out of every 1000	6-14 out of every 1000			
attempts	labors	labors	labors			

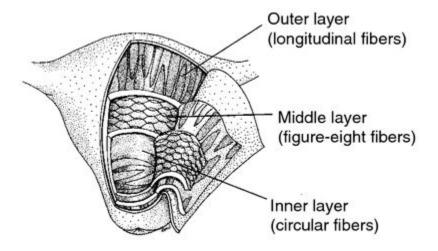
The next table shows the risk of a baby dying as a result of one of these emergencies:

Table 2.						
Uterine Rupture	Placental Abruption	Umbilical Cord Prolapse	Shoulder Dystocia			
6 out of every 100	1.25 out of every 750	91 out of every 1000	1 out of every 1000			
uterine ruptures will	placental abruptions will	babies with cord	babies with shoulder			
result in a baby's death	result in a baby's death	prolapsed will die	dystocia will die			

Uterine Scar Dehiscence



"Thinning" of a scar - separation at internal layers (not external, not full rupture)



Postdates and Inductions with VBAC Clients

Is it safe to induce a client with a scarred uterus? Under what circumstances/conditions?

- Oxytocin
- Misoprostol
- Prostaglandin Gel
- Foley
- Herbs
- Homeopathics
- Castor Oil