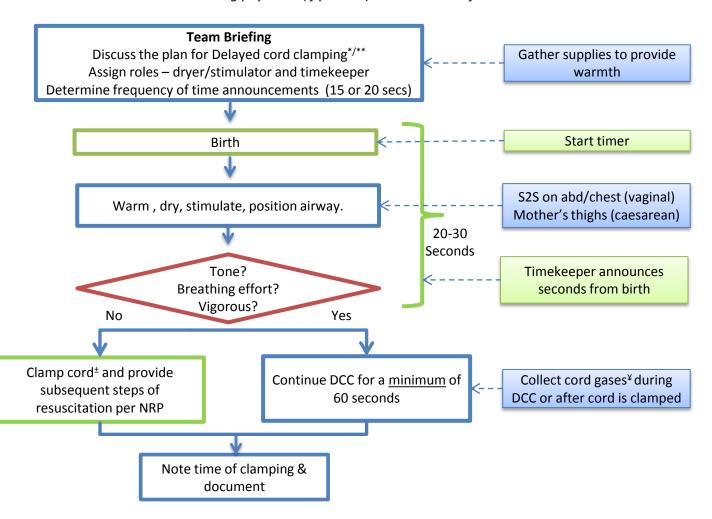
## **Delayed Cord Clamping (DCC) - Reference Algorithm**

The MRP or resuscitating physician (if present) will determine if DCC is contraindicated



\*DCC is <u>contraindicated</u> with conditions affecting placental circulation. E.G.

- placental abruption
- bleeding placenta previa
- bleeding vasa previa
- cord avulsion

- \*\*DCC should be considered on a <u>case-by-case basis with:</u>
- Fetal intrauterine growth restriction (IUGR)
- Abnormal umbilical artery Doppler measurements
- Abnormal placentation
- Other situations affecting utero-placental perfusion or umbilical cord blood flow
- Multiple gestations

## ¥ Cord Gases

- Are recommended for every delivery
- Document time of collection and clamping
- \* subsequent steps of resuscitation (i.e., ventilation) may be provided with the cord intact if the infrastructure and team composition allow

## **Recommendation Highlights**

For term and preterm infants, unless contraindicated or the delivering MRP or resuscitating physician (if present) determines cord clamping is indicated immediately:

- Provide initial steps of resuscitation\* while the cord is attached regardless of the mode of delivery. This may also include ventilation should the infrastructure and team composition allow.
- During this time (approximately 20 to 30 seconds) assess the newborn's tone and breathing effort to determine if the infant is vigorous or non-vigorous.
  - ➤ Vigorous DCC for <u>at least</u> 60 seconds
  - Non-vigorous after the initial steps of resuscitation\*, consider clamping the cord and provide subsequent steps of resuscitation per the NRP algorithm

## **Procedure**

Team Briefing	Patient, MRP and resuscitation team establishes plan for DCC; anticipated
	length of delay based on contraindications, clinical situation, newborn's condition
	at delivery (i.e., vigorous/non-vigorous) and maternal preference.
Assign Roles	Dryer/stimulator, timekeeper (confirm intervals to be announced)
Supplies to	Sterile hand towels/large lap sponges (in OR)
facilitate DCC	<32 weeks; polyethylene bag (sterile in OR)
	Please refer to clinical protocol: Code Pink for a complete list of supplies required for
	resuscitation
Time of birth	Start timing; Apgar timer
Initial steps of	Place baby:
resuscitation and	o <32 weeks wet in bag
positioning	<ul> <li>skin to skin on abdomen/chest (vaginal)</li> </ul>
	<ul> <li>sterile drape on mother's thighs (cesarean)</li> </ul>
	Do not stretch or pull on the cord
	Provide warmth, dry, stimulate, position to open airway
	Assess breathing and tone
Announce	Announce time at 15 or 20 second intervals
Delay/Concern	Any team member can verbalize concerns
Clamp Cord	If baby is noted to be vigorous (breathing effort, tone/flexion present) continue
	delayed cord clamping for a minimum of 60 seconds
	If the baby is noted to be non-vigorous (no/poor breathing effort, hypotonic)
	<ul> <li>clamp the cord and proceed with the next steps of NRP</li> </ul>
	<ul> <li>initiated ventilation with an intact cord, if the infrastructure and team</li> </ul>
	composition allow
	Note time and document (labour birth summary record)
Follow-up care	Provide routine care (skin to skin)/continue next steps of resuscitation per NRP
Cord Gases	Document time cord gasses are collected

<sup>\*</sup>providing warmth, drying, stimulating and positioning to open airway