

Labor and Delivery Order Set Oxytocin Induction and Augmentation

AI	lergies \Box No Known Allergies \Box	
Date prescribed: Month / Day / Year		Time: 00:00
Ac	Imission Admit to Labour and Delivery Unit under attending MF	P. Refer to hospital Admission Order set.
Pr	ior to Commencing Oxytocin:	
	Patient is examined vaginally and has a Bishop score Patient has no contraindications to vaginal birth, such incision or other uterine surgeries that contraindicate a	as placenta previa or vasa previa, prior classic uterine attempts at vaginal delivery, and/or prolapsed cord. ast 20 minutes (to confirm a normal fetal heart rate (FHR) rpical or abnormal, notify the MRP immediately. lins gel (Prostin, Prepidil).
Mo	onitoring During Oxytocin Infusion:	
	Continuous electronic fetal monitoring.	
		ods of up to 30 minutes in the first stage of labour (if tracing is sion rate of oxytocin has not been increased in the last 30 hydrotherapy.
	Assess and document the FHR and UA assessment f	
		efore the onset of pushing in the second stage.
	 q15 minutes during active second stage, once 	
	 Maternal heart rate, respirations, and blood pr normal limits. 	ressure q30min and prn. Notify MRP if vitals outside
		ct, q2h once membranes have ruptured and prn. Notify MRP
	confusion, seizures).	ns of water intoxication/hyponatremia (e.g., lethargy, ataxia,
	 Vaginal examination q2-4h or PRN for labour Vaginal examination g1h in the active accord 	
	 Vaginal examination q1h in the active second Notify MRP immediately when any signs of the followi 	5
	 Atypical or abnormal FHR 	
	 Tachysystole (defined over 30 minutes) 	
	 Excessive vaginal bleeding 	

Ме	dication
	Primary IV initiated with maintenance infusion of \Box 0.9% Sodium Chloride OR \Box Ringers Lactate at
	\Box mL/hr on IV smart pump
	Oxytocin infusion 10 units in 500 mL of 🛛 0.9% Sodium Chloride OR 🛛 Ringers Lactate on IV smart pump
	 Note: Final concentration of solution is Oxytocin 20 milliunits/mL.
	Piggyback oxytocin infusion onto primary IV line connected at port closest to the patient.
	Independent double check performed for initial pump set up as per table 2.
	Low Dose Protocol
	 Start oxytocin infusion at 1 milliunits/minute (3 mL/hour) OR 2 milliunits/minute (6 mL/hour).
	 Increase the rate by 1 milliunits/minute (3 mL/hour) OR 2 milliunits/minute (6 mL/hour) q 30
	minutes, as needed, until a normal uterine contraction pattern is achieved. Refer to table 1 for dosage
	chart and table 3 for definition of normal uterine contraction pattern.
	 Do not exceed a rate of 12 milliunits/minute without reassessment and/or verbal order from MRP.
	• Do not exceed a rate of 20 milliunits/minute without a written order from the MRP. MRP reassessment
	required at 20 milliunits/minute, and if required a maximum infusion rate of 30 milliunits/minute may be
_	ordered.
_	duce Oxytocin
Ш	In the event of atypical FHS (as defined in table 4), reduce the oxytocin infusion rate by half or stop oxytocin infusion.
	In the event of tachystole with a normal or atypical FHS, decrease oxytocin to half the rate or stop oxytocin
	infusion.
	Apply intrauterine resuscitation intervention (as defined in table 5).
	Document clinical actions and notify MRP when oxytocin decreased.
Sto	op Oxytocin
	In the event of an abnormal FHS (as defined in table 4), stop oxytocin immediately.
	In the event of tachystole with an abnormal FHS, stop oxytocin immediately.
	Apply intrauterine resuscitation interventions (as defined in table 5).
	Document clinical actions and notify MRP when oxytocin discontinued.
Ro	start Orders
	Restart oxytocin at half the rate IF: it has been discontinued for less than 30mins, and the FHR tracing and
-	contraction pattern are normal.
	Restart oxytocin at initial starting dose IF: it has been discontinued for 30mins or longer, the FHR tracing and
	contraction pattern are normal, and a complete fetal and maternal assessment has been discussed with the MRP
	prior to restarting.
Ad	ditional Order
Or	dering MRP
	-
	Print Name: Signature: Signature:

Oxytocin 10 International Units (IU) in 500 mL of IV fluid (20 milliunits/mL)					
Dose	Rate / Hour	Dose	Rate / Hour		
1 milliunits/minute	3 mL/h	11 milliunits/minute	33 mL/h		
2 milliunits/minute	6 mL/h	12 milliunits/minute	36 mL/h		
3 milliunits/minute	9 mL/h	13 milliunits/minute	39 mL/h		
4 milliunits/minute	12 mL/h	14 milliunits/minute	42 mL/h		
5 milliunits/minute	15 mL/h	15 milliunits/minute	45 mL/h		
6 milliunits/minute	18 mL/h	16 milliunits/minute	48 mL/h		
7 milliunits/minute	21 mL/h	17 milliunits/minute	51 mL/h		
8 milliunits/minute	24 mL/h	18 milliunits/minute	54 mL/h		
9 milliunits/minute	27 mL/h	19 milliunits/minute	57 mL/h		
10 milliunits/minute	30 mL/h	20 milliunits/minute	60 mL/h		

Table 2: Independent Double Check for Initial Pump Set Up

Independent Double Check for Initial Pump Set Up

To be performed and signed by two regulated health care professionals (e.g., RN, MW, MD).

CHECK 1			CHECK 2
	Correct Patient		
	Correct Drug		
	Correct Drug Concentration (on bag)		
	Correct Programmed Concentration on Smart Pump		
	Correct rate (in milliunits/minute) Correct IV Line and Port Connection		
Check 1:			
_	Printed Name	Signature	-
Check 2: _			
	Printed Name	Signature	

Table 3: Definitions: Normal Uterine Activity and Tachysystole

Normal Uterine Contraction

- Frequency: 3 to 5 contractions in a 10-minute period, averaged over a 30-minute time period.
- Duration: lasting no greater than 90 seconds.
- Configuration: Regular and symmetrical.
- Intensity: patient perception, or moderate to strong by palpation by clinician, or 25-80 mmHg via IUPC.
- **Resting tone:** Uterus soft by clinician palpation, or less than 25 mmHg via IUPC, between contractions for a minimum of 30 seconds.

Tachysystole

- 6 or more uterine contractions in 10-minute period averaged over a 30 minute, and/<u>or</u> contractions that last 90 seconds or longer (>90 sec), and/<u>or</u> when the uterine resting tone does not soften (by palpation) for at least 30 seconds between contractions and/<u>or</u> resting tone remains firm by palpation or the intrauterine pressure remains at or greater than 25 mmHg.
- Clinician assessment will be warranted as some women will have uterine activity as per this
 definition but will not be moderate to strong upon palpation and/or actively laboring in early
 administration of oxytocin.
- Fetal heart rate characteristics and associated with uterine activity should be classified and documented.

Source: SOGC, 2020; CPPC, 2018

Note: This table is for reference only and meant to inform the information within the order set.

Table 4: Intrauterine resuscitation

The goal of intrauterine resuscitation is to improve uterine blood flow, umbilical circulation, fetal/maternal oxygenation and decrease uterine activity. Actions may include:

- Stop or decrease oxytocin
- Change maternal position to left or right lateral
- Check maternal vital signs, including differentiation of maternal heart rate from fetal heart rate
- Provide supportive care to reduce maternal anxiety (to lessen catecholamine impact)
- Modify or pause pushing efforts in the active second stage of labour
- Perform vaginal examination to rule out cord prolapse and assess progress
- Consider tocolysis in the presence of tachysystole with atypical or abnormal tracing (e.g., with IV nitroglycerin)
- Consider amnioinfusion in the presence of complicated variable decelerations
- Improve maternal hydration, with an intravenous fluid bolus, only if indicated, i.e., maternal hypovolemia and/or hypotension; be aware of maternal fluid balance
- **Consider** oxygen by mask **only when** maternal hypoxia and/or hypovolemia is suspected/confirmed. Oxygen is reserved for maternal resuscitation in the presence of maternal hypoxia or hypovolemia **NOT** for fetal resuscitation.

Source: SOGC, 2020

Note: This table is for reference only and meant to inform the information within the order set.

Table 5: Classification of Intrapartum EFM Tracings

UTERINE ACTIVITY BASELINE	 Normal contractions Tachysystole may be present 110-160 bpm 	 100-110 bpm Greater than 160 bpm for 30-80 minutes Rising baseline 	 Monitor closely for concerning FHR characteristics. Less than 100 bpm Greater than 160 bpm for more than 80 minutes
	• 110-160 bpm	 Greater than 160 bpm for 30-80 minutes Rising baseline 	• Greater than 160 bpm for more than 80 minutes
		 Arrhythmia (irregular rhythm) 	• Erratic baseline
VARIABILITY	 Moderate (6-25 bpm) Minimal or absent (less than or equal to 5 bpm) for less than 40 minutes 	 Minimal or absent (less than or equal to 5 bpm) for 40-80 minutes 	 Minimal or absent (less than or equal to 5 bpm) for more than 80 minutes Marked (greater than 25 bpm) for more than 10 minutes Sinusoidal
ACCELERATIONS	 Spontaneous acceleration(s) (not required to classify tracing as normal) Acceleration with scalp stimulation 	Absence of acceleration with scalp stimulation	 Usually absent Accelerations if present, do not change classification of tracing based on other characteristics
DECELERATIONS	 None Non-repetitive uncomplicated variables decelerations Early decelerations 	 Repetitive uncomplicated variable decelerations Non-repetitive complicated variables Intermittent late decelerations Single prolonged deceleration lasting more than 2 minutes but less than 3 minutes 	 Repetitive complicated variables decelerations Recurrent late decelerations Single prolonged deceleration lasting more than 3 minutes but less than 10 minutes
INTERPRET CLINICALLY (In light of total clinical picture)	No evidence of fetal compromise	 Physiologic response reflecting activation of compensatory mechanisms 	Possible fetal compromise
TERMINOLOGY		qual to 3 in a row occur with less than 50% of uterine contrac	tions in any 20-minute window erine contractions in any 20-minute window