



Nursing Practicum:

Induction of Labor in Labor Room

- Precautions for Induction Methods
- Nursing Diagnosis: Mother & Newborn

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Objectives

- **Define induction of labor (IOL) and indications.**
- **Describe methods: Mechanical, Pharmacological.**
- **Identify precautions and complications.**
- **List nursing diagnoses for mother and newborn.**
- **Emphasize monitoring in labor room.**



Definition & Indications



Induction of Labor (IOL): Artificial start of labor before spontaneous onset, using mechanical, physiological, or chemical methods

Indications:

- Post-term pregnancy (>42 weeks).
- PROM without labor.
- Maternal conditions (e.g., preeclampsia, diabetes).
- Fetal issues (e.g., growth restriction)





Methods of IOL

Examples

Mechanical

Physical ripening/stimulation/membrane stripping

Amniotomy (AROM), Foley catheter

Pharmacological

Chemical agents

Prostaglandins (misoprostol), Oxytocin IV

Physiological

Natural aids

Nipple stimulation, ambulation

Bishop Score: Assess cervix (score $\geq 6-9$ favorable).



1000 ml. Dextrose 5% in 1/2 Str. Saline			
Dextrose and Sodium Chloride Injection			
Contains 2% w/v Sodium Chloride, pH 5.0			
Each 100 ml. contains:	Provides in 1,000 ml.		
Dextrose, monohydrate..... 5 g.	Dextrose, monohydrate..... 50 g.		
Sodium Chloride..... 400 mg.	Sodium..... 77 mEq.		
ยา-1000/0.5			
วันที่ให้ยา..... 02/01/2564			
ชื่อผู้ป่วย..... 02			
ชื่อแพทย์..... 02			
ชื่อพยาบาล..... 02			
Tablet indicating rate per hour of oxytocin infusion in			
measures of milliliters per hour in a solution of 10 unit of			
oxytocin in 1000 ml.			
Ml/hr.	Minutes/min	Time(minutes)	
12/1500	2	0	
24/1500	4	30	
36	6	60	
48	8	90	
60	10	120	
72	12	150	
84	14	180	
96	16	210	
120	20	240	
144	24	270	
168	28	300	
192	32	330	
216	36	360	
240	40	390	
264	44	420	
288	48	450	
312	52	480	
336	56	510	
360	60	540	
384	64	570	
408	68	600	
432	72	630	
456	76	660	
480	80	690	
504	84	720	
528	88	750	
552	92	780	
576	96	810	
600	100	840	
624	104	870	
648	108	900	
672	112	930	
696	116	960	
720	120	990	
744	124	1020	
768	128	1050	
792	132	1080	
816	136	1110	
840	140	1140	
864	144	1170	
888	148	1200	
912	152	1230	
936	156	1260	
960	160	1290	
984	164	1320	
1008	168	1350	
1032	172	1380	
1056	176	1410	
1080	180	1440	
1104	184	1470	
1128	188	1500	
1152	192	1530	
1176	196	1560	
1200	200	1590	
1224	204	1620	
1248	208	1650	
1272	212	1680	
1296	216	1710	
1320	220	1740	
1344	224	1770	
1368	228	1800	
1392	232	1830	
1416	236	1860	
1440	240	1890	
1464	244	1920	
1488	248	1950	
1512	252	1980	
1536	256	2010	
1560	260	2040	
1584	264	2070	
1608	268	2100	
1632	272	2130	
1656	276	2160	
1680	280	2190	
1704	284	2220	
1728	288	2250	
1752	292	2280	
1776	296	2310	
1800	300	2340	
1824	304	2370	
1848	308	2400	
1872	312	2430	
1896	316	2460	
1920	320	2490	
1944	324	2520	
1968	328	2550	
1992	332	2580	
2016	336	2610	
2040	340	2640	
2064	344	2670	
2088	348	2700	
2112	352	2730	
2136	356	2760	
2160	360	2790	
2184	364	2820	
2208	368	2850	
2232	372	2880	
2256	376	2910	
2280	380	2940	
2304	384	2970	
2328	388	3000	
2352	392	3030	
2376	396	3060	
2400	400	3090	
2424	404	3120	
2448	408	3150	
2472	412	3180	
2496	416	3210	
2520	420	3240	
2544	424	3270	
2568	428	3300	
2592	432	3330	
2616	436	3360	
2640	440	3390	
2664	444	3420	
2688	448	3450	
2712	452	3480	
2736	456	3510	
2760	460	3540	
2784	464	3570	
2808	468	3600	
2832	472	3630	
2856	476	3660	
2880	480	3690	
2904	484	3720	
2928	488	3750	
2952	492	3780	
2976	496	3810	
3000	500	3840	
3024	504	3870	
3048	508	3900	
3072	512	3930	
3096	516	3960	
3120	520	3990	
3144	524	4020	
3168	528	4050	
3192	532	4080	
3216	536	4110	
3240	540	4140	
3264	544	4170	
3288	548	4200	
3312	552	4230	
3336	556	4260	
3360	560	4290	
3384	564	4320	
3408	568	4350	
3432	572	4380	
3456	576	4410	
3480	580	4440	
3504	584	4470	
3528	588	4500	
3552	592	4530	
3576	596	4560	
3600	600	4590	
3624	604	4620	
3648	608	4650	
3672	612	4680	
3696	616	4710	
3720	620	4740	
3744	624	4770	
3768	628	4800	
3792	632	4830	
3816	636	4860	
3840	640	4890	
3864	644	4920	
3888	648	4950	
3912	652	4980	
3936	656	5010	
3960	660	5040	
3984	664	5070	
4008	668	5100	
4032	672	5130	
4056	676	5160	
4080	680	5190	
4104	684	5220	
4128	688	5250	
4152	692	5280	
4176	696	5310	
4200	700	5340	
4224	704	5370	
4248	708	5400	
4272	712	5430	
4296	716	5460	
4320	720	5490	
4344	724	5520	
4368	728	5550	
4392	732	5580	
4416	736	5610	
4440	740	5640	
4464	744	5670	
4488	748	5700	
4512	752	5730	
4536	756	5760	
4560	760	5790	
4584	764	5820	
4608	768	5850	
4632	772	5880	
4656	776	5910	
4680	780	5940	
4704	784	5970	
4728	788	6000	
4752	792	6030	
4776	796	6060	
4800	800	6090	
4824	804	6120	
4848	808	6150	
4872	812	6180	
4896	816	6210	
4920	820	6240	
4944	824	6270	
4968	828	6300	
4992	832	6330	
5016	836	6360	
5040	840	6390	
5064	844	6420	
5088	848	6450	
5112	852	6480	
5136	856	6510	
5160	860	6540	
5184	864	6570	
5208	868	6600	
5232	872	6630	
5256	876	6660	
5280	880	6690	
5304	884	6720	
5328	888	6750	
5352	892	6780	
5376	896	6810	
5400	900	6840	
5424	904	6870	
5448	908	6900	
5472	912	6930	
5496	916	6960	
5520	920	6990	
5544	924	7020	
5568	928	7050	
5592	932	7080	
5616	936	7110	
5640	940	7140	
5664	944	7170	
5688	948	7200	
5712	952	7230	
5736	956	7260	
5760	960	7290	
5784	964	7320	
5808	968	7350	
5832	972	7380	
5856	976	7410	
5880	980	7440	
5904	984	7470	
5928	988	7500	
5952	992	7530	
5976	996	7560	
6000	1000	7590	

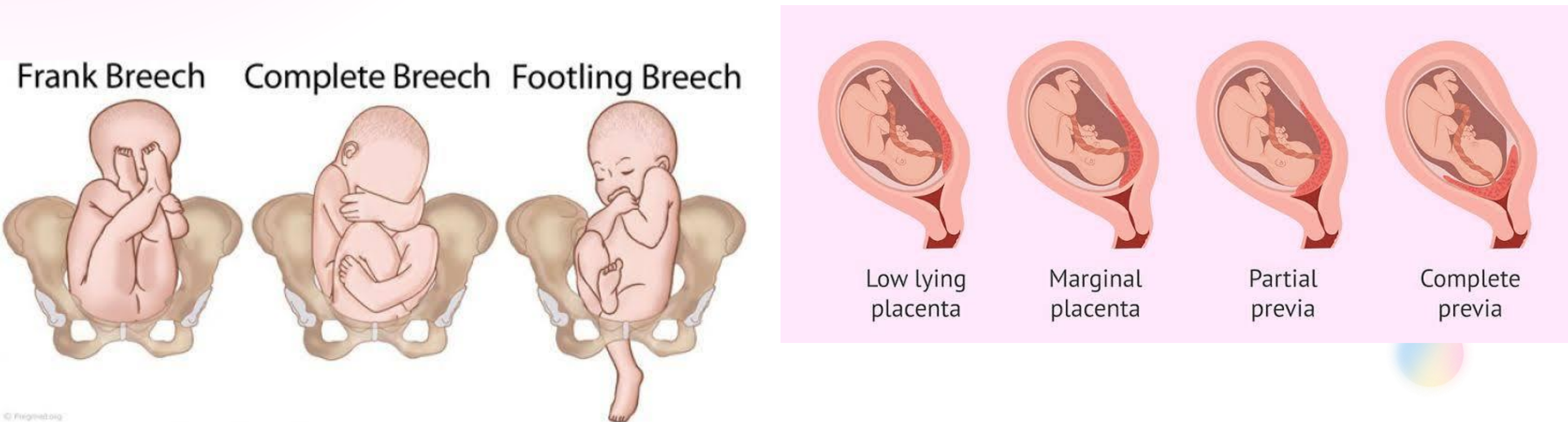


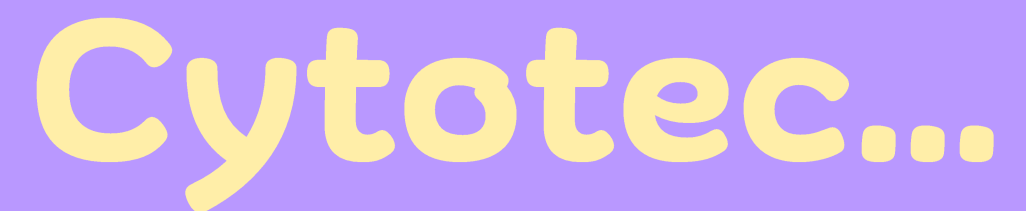
Contraindications

Absolute Contraindications:

- Placenta previa, vasa previa, cord prolapse.
- Breech/transverse lie, prior classical C-section.
- Active herpes, fetal distress.

Relative: CPD, hypersensitivity to agents.







Precautions – Mechanical Methods

Amniotomy (AROM):

- **Ensure engaged presenting part to avoid cord prolapse.**
- **Monitor FHR post-procedure; infection risk if prolonged ROM.**
- **Cleanse vulva, use sterile gloves.**

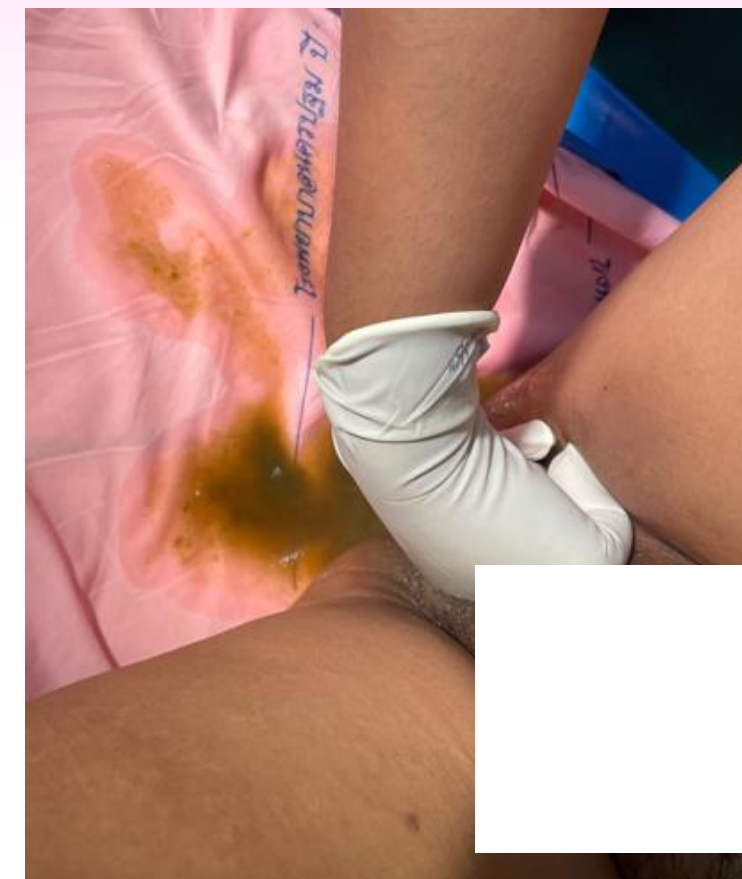
Foley Catheter:

- **Risk of infection, uterine rupture; continuous FHR.**





Amniotomy procedure





Precautions – Pharmacological Methods

Oxytocin IV: for good UC (contraction q 3' (I=3'D=45–60"))

- Start low (0.5–2 mU/min), titrate; watch for hyperstimulation (>5 contractions/10 min)
- Stop if tachysystole (>6/10 min), hypertonus (>90 sec), late decelerations

Prostaglandins:

- Avoid in prior C-section; monitor for hyperstimulation, fetal distress



Oxytocin: Induction

19/12/61 * G1 P0 GA 41+2 Wks.
10.13 u. # LP

S: ឆ្អឹង ទឹក ឥត រំលោភ 2-3 ជាន់
ឥត ឆ្អឹង ឥត ឆ្អឹង ឥត ឆ្អឹង
ឥត ឆ្អឹង ឥត ឆ្អឹង ឥត ឆ្អឹង.

O: VIS - BP 140/98, HR 110
Fv: 3 cm, 50%, ME, 0

UC 9-10', D 60", 2P

Bishop 6

18/12/61
10.13 u.

- Synto 100 in 5% DNSS/2.
1000 ml @ drip rate 12 ml/hr
- tritrate on good UC.

- NPO

- CBC

- G1M PRC 2U

- DSS 1000 ml @
80 ml/hr

Estm





Oxytocin: Induction





Oxytocin: Induction





Complications & Monitoring



Key Risks: Uterine hyperstimulation, fetal distress, rupture, infection, failed induction → C-section.

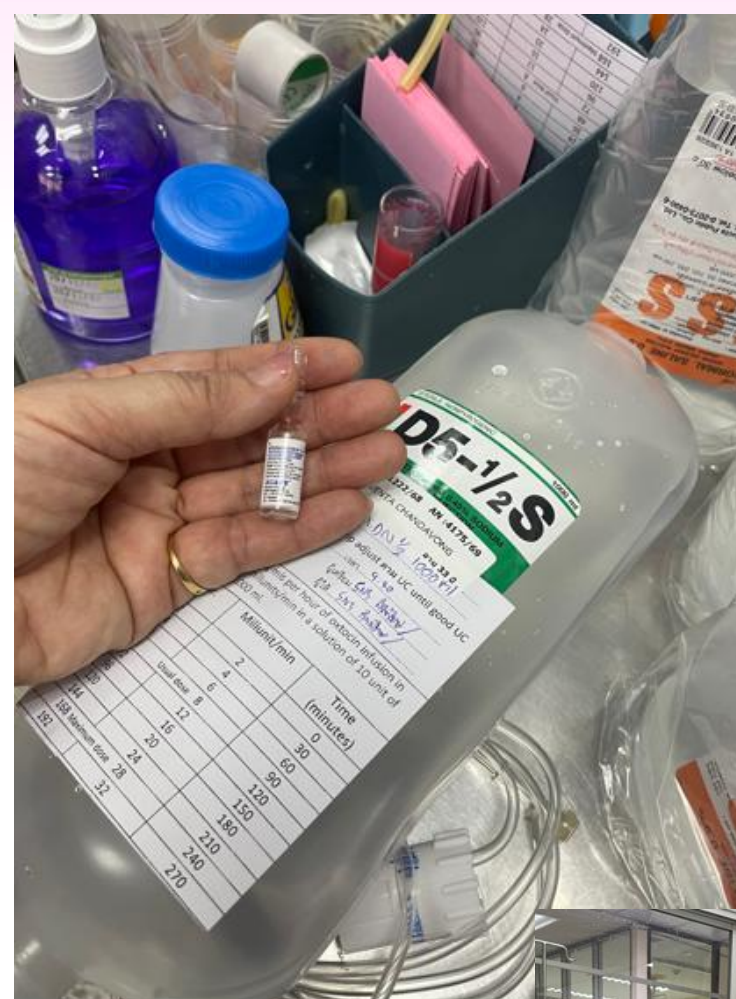
Nursing intervention:

- Continuous FHR, uterine tone, maternal VS q15–30 min.
- IV access, O2 ready, emergency C-section setup.



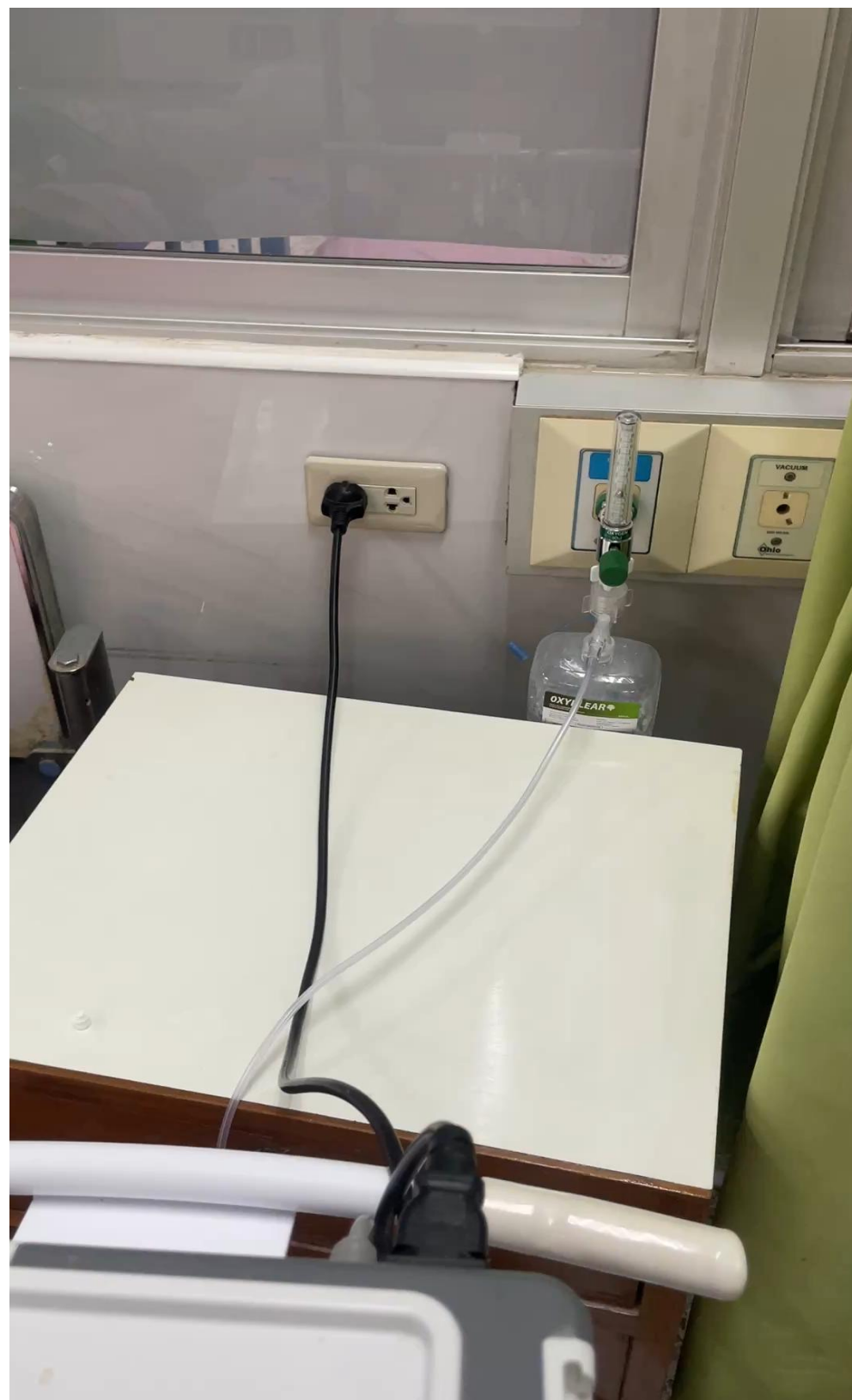


vdo oxytocin



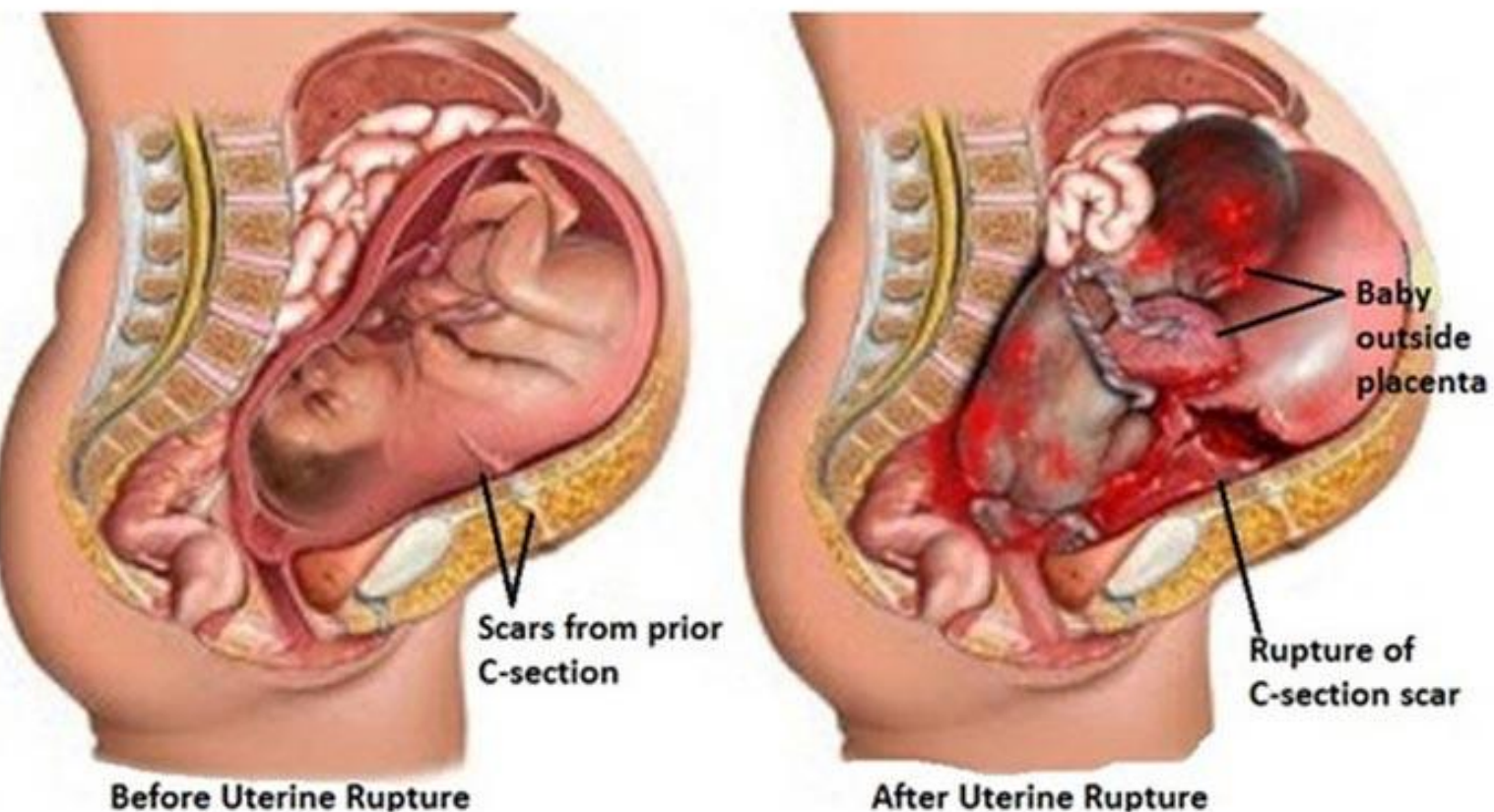


Complications & Monitoring





Nursing Diagnosis – Mother



Risk for Injury r/t hyperstimulation/rupture, as evidenced by contractions >90 sec

Acute Pain r/t frequent/intense contractions

Anxiety r/t labor uncertainty, as evidenced by verbalization

Risk for Infection r/t invasive methods



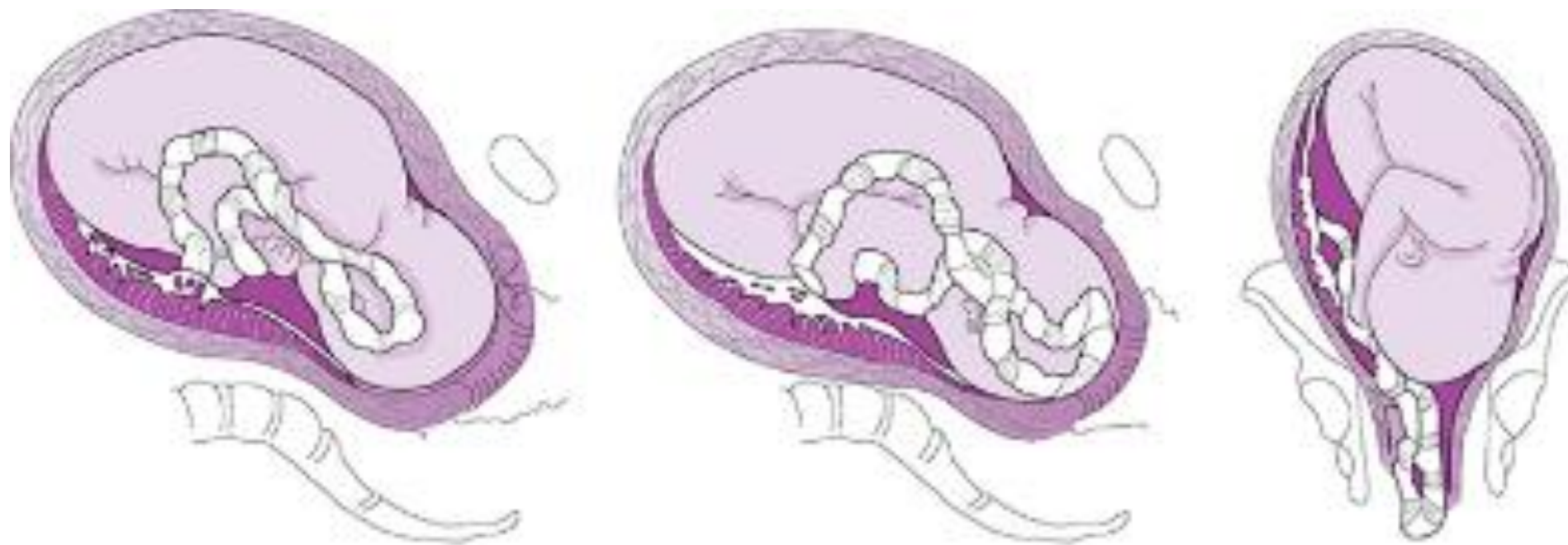


Nursing Diagnoses – Newborn

Risk for Fetal Injury r/t uteroplacental insufficiency, as evidenced by late FHR decelerations

Risk for Asphyxia r/t cord prolapse post-AROM

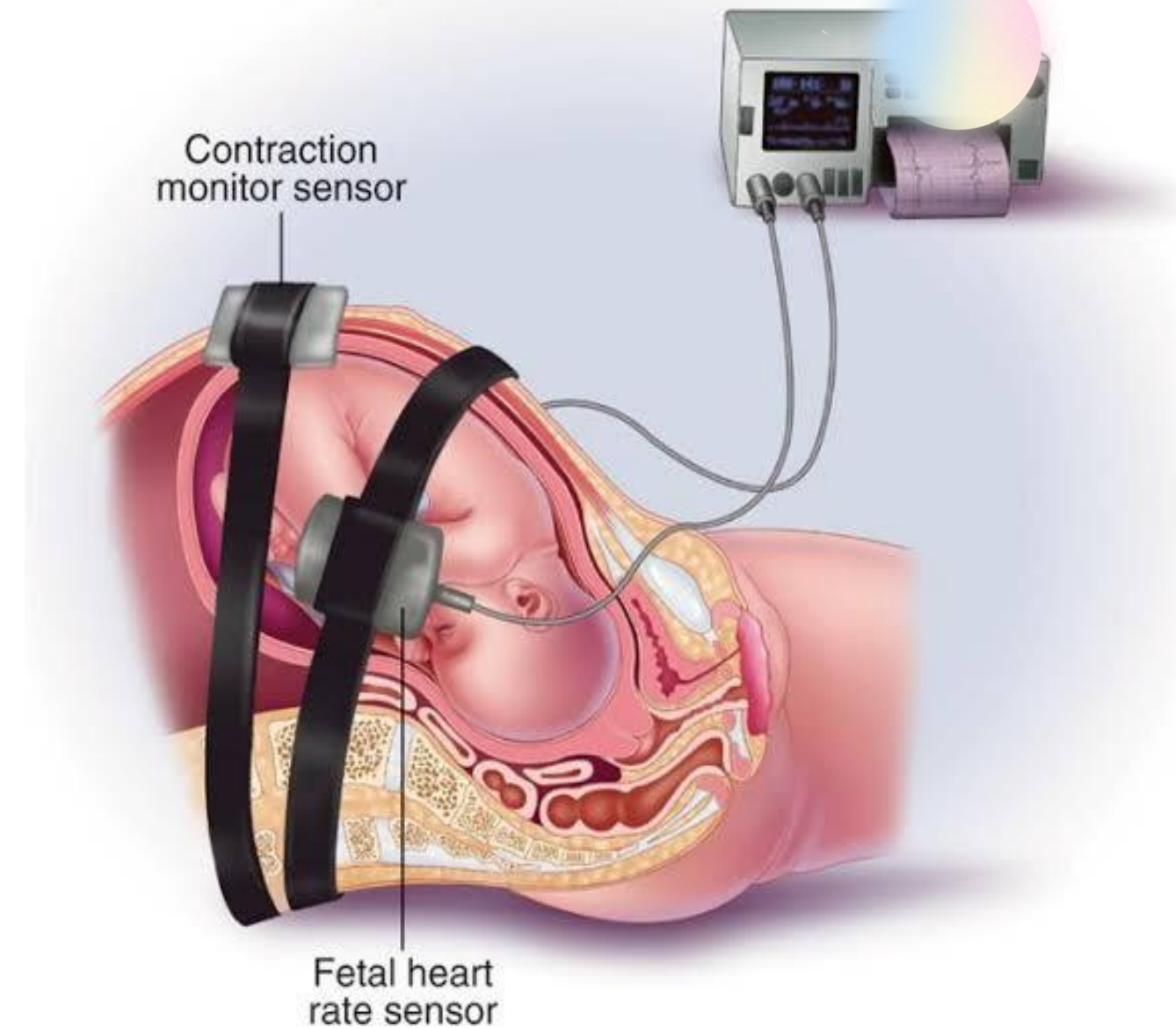
Ineffective Tissue Perfusion (fetal) r/t hypertonus
Risk for Infection r/t prolonged ROM.





Nursing Interventions

- **Assess Bishop score pre-IOL.**
- **Monitor FHR, contractions via telemetry.**
- **Position changes, hydration for oxytocin**
- **Educate on signs of distress; prepare for C-section**





Summary

- IOL requires vigilant monitoring to prevent maternal/fetal complications.
- Tailor methods to patient; prioritize safety in labor room.

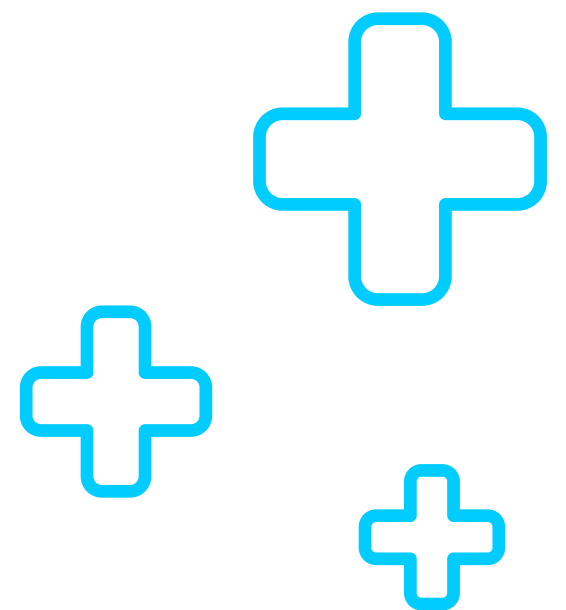
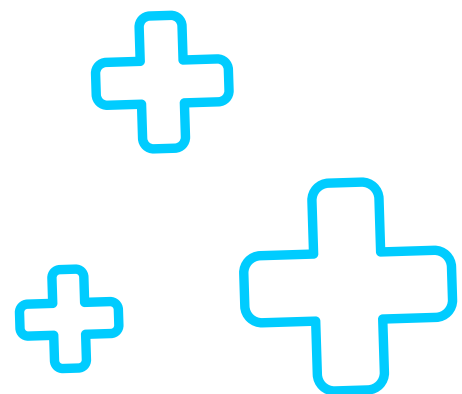
Q&A Follow-ups





Summary

- * **Nursing interventions for uterine hyperstimulation during IOL**
- * **Sample nursing diagnoses for mother with oxytocin induction**
- * **Nursing care plan template for fetal distress in labor room**
- * **Complications of prostaglandins vs mechanical induction**





THANK YOU

