

NICU Disease Process Map

D.O.B. <u>04/24/2025</u>	APGAR at birth: <u>8</u>
Gestational Age <u>37w</u>	Adjusted Gestational Age <u>37wkd</u>
Birthweight <u>5 lbs. 15.8 oz. / 2715</u> grams	
Current weight <u>5 lbs. 5 oz. / 2500</u> grams	

Disease Name: Transient Tachypnea of the Newborn (TTN)

What is happening in the body?

a common condition in newborns where the neonate has difficulty clearing fluid from their lungs after delivery. Most common in c-section & premature deliveries.

My patient was born via c-section & required O₂ support for 50 mins before going to NICU for cpap.



What am I going to see during my assessment?

- tachypnea - 60^+ Bpm
- potential \downarrow SpO₂
- grunting
- nasal flaring
- intercostal retractions
- poor feeding



What tests and labs will be ordered?

- CBC
- CMP
- blood cultures
- chest X-Ray



What trends and findings are expected?

- episodes of tachypnea
- potential for fluctuating SpO₂



What medications and nursing interventions/treatments will you anticipate?

- Supplemental oxygen
- Bubble CPAP
- Potential for IV fluids



How will you know your patient is improving?

- improvement to overall respiratory effort
- continues to wean off supplemental oxygen
- Improvements with feeding



What are risk factors for the diagnosis?

- C-section delivery: baby doesn't pass through the vaginal canal which squeezes & helps the baby naturally clear fluid.
- low gestational age/premature
- maternal DM



What are the long-term complications?

Most cases resolve on their own within 24-72 hours after birth.

In rare cases:

- increase risk of childhood asthma/wheezing
- persistent pulmonary hypertension - potential for developmental/hearing impairment



What patient teaching for management and/or prevention can the nurse do?

Delivery is hard, sometimes they need a little extra love 

<p>prevention:</p> <ul style="list-style-type: none"> - no smoking/alcohol - good nutrition 	<p>management:</p> <ul style="list-style-type: none"> - keep family informed - good education!
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I=ILLNESS SEVERITY

- Stable
- Watcher
- Unstable

- Neo Patient
- NNP Patient

P=PATIENT SUMMARY

Name _____ DAY OF LIFE: 6
 Birth Wt 2715 g 5 lb 15.8 oz Length 48.3 in Band # _____
 Gest. Age 37 wks @ birth Adjusted 37 wks APGAR 8/8/8/
 Delivery: Vag C-Sept Complications _____
 Primary Dx RDS Secondary Dx PLO SEPSIS
 Consults _____
 Mother _____ Age _____ Blood Type _____ Infant's Type D+
 OB _____ In house / Transfer from _____
 Preferred Language _____ Mom's Phone # (_____) _____
 Dad _____ Dad's Phone # (_____) _____
 Social Issues/CPS involvement _____

Respiratory Status

_____ mm ETT @ _____ lip / gum — cut @ _____ Trach _____
 Intubated _____ Extubated _____ Reintubated _____
 Curosurf #1 _____ / _____ #2 _____

	PB840	HFOV/HFJV
<input type="checkbox"/> NIPPV	PIP _____	Amp _____
<input type="checkbox"/> Intubated	PEEP _____	MAP _____
<input type="checkbox"/> Trached	Rate _____	Hz _____
	PS _____	FiO ₂ _____
	FiO ₂ _____	INO _____

Nasal / Bubble CPAP

NIPPV _____ PEEP _____ FiO₂ _____
 Intubated _____ Mask @ _____ Prongs @ _____
 Trached _____ NC / HFNC _____ LPM _____ FiO₂ _____
 RA Challenge: 32wks _____
 34wks _____
 36wks _____

Next

ABG / CBG / VBG _____ @ _____ Room Air 4/29 @ 1215

Imaging

Last CXR 4/24 Last KUB _____ Other: _____ on _____
 Last HUS _____ Results: _____ F/U _____
 MRI _____ Results: _____ EEG (single / cont.) _____
 Last Echo _____ Results: _____ F/U _____
 PDA Treatment: Indocin: 3 doses (_____) (_____) (_____) _____
 Ibuprofen: _____ doses (started _____) Tylenol: _____ doses (started _____)

PATIENT LABEL

Laboratory

Last CBC 4/26 Last HHR _____ Last BMP / CMP 4/25
 Blood CX 4/24 = NO GROWTH Protocol sent yes no
 Mec / Cord STAT _____ = _____ Thyroid Labs _____
 Vanc / Gent: Trough _____ Peak _____ Other labs: _____

Hx of

Phototherapy Started _____ Initial Bili level _____
 Jaundice 1 2 other _____ Next bili level _____
 Last TsB _____ = _____ DC Phototherapy _____
 Last TcB 4/28 = 9.1 4/30 = 6.1

Transfusion Hx

Blood out 4.4 mL PRBCs _____ mL on _____ Plts _____ mL on _____
 As of 4/26 @ 0100 _____ FFP _____ mL on _____
 _____ mL on _____

Output

Last stool 4/30 @ 0000 Supp Q24H _____ @ _____
 Urine output 5.1 mL/kg/hr Pos _____ / Neg _____ Foley _____ Fr _____
 8Fr / 10Fr Replogle @ _____ cm to LOW / INTERMITTENT / CONT Sx _____
 Drainage/shift: _____ mL Last 24hrs _____ mL Color: _____
 Ostomy: R L Single Double _____ Bag changed _____
 Output/shift _____ mL

G-Tube / Chest Tube / Reservoir / EVD / Penrose / Other Drains:

(list type & drainage amount per shift)

Procedures

Eye Exam: Dr. _____ on _____ / _____ Zone _____ Stage _____
 Follow-up _____ / _____ Mature—Follow-up in 1 year
 Laser Sx—Dr. _____ on _____ / _____ OU OD OS
 Surgery _____ on _____ / _____
 Circ: Dr. _____ Date _____ / _____ Gomco / Plastibell _____

A=ACTION LIST

Parenteral Nutrition

3.5fr / 5fr UAC @ cm | 3.5fr / 5fr SL / DL UVC @ cm
 fr SL / DL PICC cut @ cm Ext. length cm Placed /
 Broviac Placed /
 Clave Δ due / Last dsg Δ / D/C'd /

PIV/ANT: Hand

SITE **FLUID** **RATE**
 D W or NSF @ mL/hr
 PPN / TPN @ mL/hr
 SMOF Lipids..... @ mL/hr
 ¼ ½ Full Na Acetate w/ 0.25 units heparin/mL @ mL/hr
 @ mL/hr

Site	Medication	Dose	Conc.	Rate
			/mL	mL/hr

PRN Meds: q hr Last given / @
 q hr Last given / @

Enteral Nutrition

Care Times: 8-11-2-5 am/pm 9-12-3-6 am/pm Q4H @
 NPO Oral care with colostrum initiated until / (2 weeks of life)

PO Non-nutritive Infant driven PO
 sucking till 33wks On demand
 Excl. BF 33-34wks May Ad. Lib.

Nipple Type
<input type="checkbox"/> Slow Flow
<input type="checkbox"/> Regular
<input type="checkbox"/> <u> </u>

OG / Left NG / Right NG 5fr @ 6.5fr 8fr @ 2.0 cm
 Placed 4/27 Δ / GT:

mom not pumping

with HMF / NeoSure 22kcal 24kcal 20 kcal
 with Prolacta + Prolacta RTF kcal/oz

Formula: Siba TCM 3mL Liquid Protein/ 50mL
 Feeding amount 50 mL q 3 hrs via syringe pump over mins
 Increasing 5 mL q 12 hrs to a goal of 50 mL

Other feeding needs

BP q 12 hr — Keep mean BP Weight: lost / gained 40 g

FOC / Abd q hr Other measurement 2500g

Bed Type: Isolette Radiant Warmer Humidity % Wean by % q hrs to off

Open Crib/Bassinnet Failed / @

Bath & linen Δ 4/29 Isolette Δ / Cleaned 4/29

Developmental care needs: Therapeutic Positioning Safe Sleep

Splints/Braces Head positioning

Isolation Precautions:

Last Care Conf. / Next Care Conf. / @

S=SITUATIONAL AWARENESS

Discharge Planning

1st NBS 4/25 WNL / ABN CPR Class/Video

2nd NBS / WNL / ABN Carseat Class/Vid

3rd NBS / WNL / ABN Purple Crying

Hep B 4/24 Carseat Challenge? Y / N Passed / Discharge Meas.

2mos. / Hearing Screen / L pass / fail

4mos. / Referral / R pass / fail

Synagis / CHD Screen / Echo / Wt. g

WIC Rx Milk Prep. Teaching / FOC cm

Receiving EMM @ Discharge? Y / N / Lgth cm

Pedi: / Appt. / @ / Home Health:

NICU Clinic/Other appts

S=SYNTHESIS BY RECEIVER