



Department of Paediatrics
Division of Paediatric Emergency Medicine

Neonatal Jaundice Order Set
(Infant less than 28 days)

INITIAL ASSESSMENT

Postnatal age in hours _____

Date and level of last bilirubin check (if known) _____ / _____ **TOTAL bilirubin, not just unconjugated/indirect bilirubin**

Birth weight (grams) _____

Current weight (grams) _____ **Naked, no diaper**

Percentage of weight loss from birth weight _____ **RISK FACTOR: greater than 7% at less than 72 hours age or greater than 10% at less than 7 days age**

Gestational Age (GA) at birth _____ **RISK FACTOR if less than 38 weeks**

Risk factors for haemolytic disease or MEDIUM or HIGHER RISK

- Unwell (fever or temperature instability, lethargy, poor feeding)
- Signs of encephalopathy: hypertonia, arching, high-pitched cry, seizures (immediate exchange transfusion indicated)
- Mother blood type 0 and baby A or B
- Mother Rh negative and baby Rh positive
- Baby Coombs positive
- Family history of Glucose-6-phosphate dehydrogenase (G6PD) deficiency

***NOTIFY MD IMMEDIATELY if any risk factors present or signs of encephalopathy**

Ordered by:		INITIAL ORDERS	Orders noted by:
MD Signature/Time	RN Signature/Time		RN Signature/Time
		Inform MD of initiation of pathway	
		Ask unit clerk to obtain infant discharge summary from birth hospital or via eCHN (particularly blood type and screen, Coombs, maternal blood group)	
		Give 24% Sucrose according to gestational age; up to 2 minutes prior to painful procedure: <ul style="list-style-type: none"> <input type="checkbox"/> 23-32 weeks: up to 0.5 mL po <input type="checkbox"/> 32-37 weeks: up to 1 mL po <input type="checkbox"/> greater than 37 weeks: up to 2 mL po Maximum daily dose: 4 times in 24 hours	
		Obtain STAT heelstick bilirubin (conjugated and unconjugated)	
		Obtain accucheck blood glucose reading	
		Remove diaper and creams	
		Place eye shield	
		Start phototherapy (at high intensity setting) immediately	
		Monitor patient temperature (skin probe or manually) every hour	

Ordered by:		INITIAL ORDERS (continued from page 1)	Orders noted by:
MD Signature/ Time	RN Signature/Time		RN Signature/Time
		Encourage breast or bottle feeding outside isolette for 20 minute intervals every 2-3 hours	
		Document all interventions and observations in appropriate place on nursing flowsheet	

When bilirubin values known: plot on chart*. Use appropriate graph based on presence/absence of risk factors.

Total Bilirubin Age (hours)

If GA less than 38 weeks; or any risk factors present or unknown, use **MEDIUM RISK** or **HIGHER RISK** graphs

Ordered by:	MD ORDERS BASED ON APPROPRIATE RISK GRAPH AND CLINICAL ASSESSMENT	Orders noted by:
MD Signature/Time		RN Signature/Time
	If result in Zone A (below phototherapy line): <input type="checkbox"/> Stop phototherapy	
	If result in Zone B (above phototherapy, below exchange transfusion line): <input type="checkbox"/> Continue phototherapy (at high intensity setting) <input type="checkbox"/> CBC and differential, unconjugated and conjugated bilirubin, Coombs, reticulocyte count, blood type and screen, glucose, electrolytes, urea, creatinine <input type="checkbox"/> G6PD level if African, Mediterranean, Middle Eastern, or Asian descent <input type="checkbox"/> If dehydrated, within 50 umol/L of exchange transfusion, and/or weight loss greater than 10% of birth weight, bolus normal saline 10 mL/kg <input type="checkbox"/> IV D5W-0.45%NS at 160 mL/kg/day: $(160\text{mL} \times \text{Weight}) \div 24 =$ _____ mL/hr MD to consult Bed Manager for admission or transfer to community hospital	
	If result in Zone C (above exchange transfusion line): <input type="checkbox"/> Use guidelines as per Zone B above <input type="checkbox"/> Start phototherapy (at high intensity setting) and add a second phototherapy unit <input type="checkbox"/> NPO <input type="checkbox"/> Apply gauze soaked with normal saline to umbilical stump MD to call NICU ext. 206925 and request TRANSPORT line to initiate admission for urgent exchange transfusion and/or IVIG in the case of haemolytic disease	

***SEE GRAPHS for infants at LOWER RISK, MEDIUM RISK and HIGHER RISK**

If GA less than 38 weeks; or any risk factors present or unknown, use **MEDIUM RISK** or **HIGHER RISK** graphs. **GRAPHS** can be found in online Guidelines Reference, attached to infant warmer, and in medication rooms.

Order Set Completed:

MD print name / signature _____ / _____ Date/Time _____ / _____
 MD print name / signature _____ / _____ Date/Time _____ / _____
 RN print name / signature _____ / _____ Date/Time _____ / _____
 RN print name / signature _____ / _____ Date/Time _____ / _____