## Hypoglycemia in low-risk term newborns (HG)

## CANADIAN PAEDIATRIC SURVEILLANCE PROGRAM

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## REPORTING INFORMATION (To be completed by CPSP staff) Report number: Month of reporting: Province: Today's date:

Please complete the following sections for the case identified above. Strict confidentiality of information will be assured.

## CASE DEFINITION FOR HYPOGLYCEMIA IN LOW-RISK TERM NEWBORNS Report any otherwise healthy neonate less than 96 hours (four days) old with all of the following: • Term gestation (37–42 weeks) • Birth weight of 2500-3999 g • Hypoglycemia, defined as whole blood or serum glucose <2.0 mmol/L Hypoglycemia treated with IV dextrose **Exclusion criteria** Neonate being monitored for hypoglycemia because of known risk factors, i.e., maternal diabetes (gestational or pre-gestational), growth restriction, macrosomia or important neonatal illness Month first seen: SECTION 1 - DEMOGRAPHIC INFORMATION A. Infant 1.1 Date of birth: \_ 1.2 Time of day: \_\_ \_:\_ \_ hrs DD MM Sex: Male\_\_\_ Female\_\_ 1.3 B. Infant's mother Place of residence (province/territory): Black\_\_\_ Chinese\_\_\_ Filipino\_\_\_ Japanese\_\_\_ Korean\_\_\_ Latin American\_\_\_ 1.5 South Asian (e.g., Bangladeshi, Punjabi, Sri Lankan) Southeast Asian (e.g., Vietnamese, Cambodian, West Asian (e.g., Afghan, Assyrian, Iranian) \_\_\_ White\_\_\_ First Nations\_\_\_ Malaysian, Laotian) Inuit\_\_\_ Métis\_\_\_ Other, specify: \_\_\_\_\_\_ Unknown\_\_\_ **SECTION 2 - FAMILY HISTORY** Yes No Unknown First-degree relative with type II diabetes? 2.1 If yes, specify relation to child: \_ 2.2 Neonatal hypoglycemia in sibling? If yes, specify cause, if known: \_\_\_\_ 2.3 Sibling with seizures or developmental delay? If yes, provide details: **SECTION 3 - INFANT MEDICAL HISTORY** Singleton\_\_\_ Twin\_\_\_ 3.1 3.2 Gestational age at birth: \_\_\_\_\_ weeks Type of delivery: Vaginal \_\_\_ Elective Cesarean section \_\_\_ Emergency Cesarean section \_ Yes No Unknown Meconium present at delivery? 3.4 3.5 Resuscitation required? If yes, specify APGAR score at 1 minute\_\_\_\_\_ 5 minutes\_\_\_\_\_ 10 minutes\_

SEC	IION 3 - INFANT MEDICAL HISTORY (cont'd)	Yes	No	Unknown
3.6	PPV >2min or intubation			
3.7	Cord gases, if available:			
	cord vein: pH pC0 <sub>2</sub> bicarb base deficit			
	cord artery: pH pC0 <sub>2</sub> bicarb base deficit			
3.8	Birth weight: g			
3.9	Length: cm			
3.10	Head circumference: cm			
3.11	Feeding: Breast Bottle Mixed			
3.12	Feeding issues prior to hypoglycemia?			
	If yes, please elaborate if possible:			
3.13	Temperature less than 36.5°C in 24 hours prior to hypoglycemia?			
	If yes, specify the lowest recorded temperature: °C axillary / rectal (circle one)			
3.14	Did the infant have glucose measurement(s) earlier in life?			
	If yes, state why:			
3.15	What prompted glucose measurement at time of hypoglycemia diagnosis?			
3.16	Date of hypoglycemia:// Time of day:: hrs			
3.17	DD MM YYYY  At time of hypoglycemia – Weight: g Temperature: °C Hydration norm	al	Dehvo	drated
	Signs and symptoms around the time of hypoglycemia (check all that apply):		. ,	
	jitteriness seizure apnea cyanosis lethargy poor suck	hypo	tonia	
	hypertonia abnormal cry exaggerated startle other, specify:			
3.19	Location of birth: Hospital Home Birthing centre			
3.20	From where did infant originate? Infant already in SCN/NICU for other reasons			
	Transferred from post-natal ward within hospital Transferred from another hospital	al		
	Transferred from a birthing centre Admitted from home			
SEC	TION 4 – INFANT LABORATORY DATA AND IMAGING RESULTS			
4.1	Glucose level that prompted the IV dextrose start:			
4.2	Lowest blood glucose level (if lower than presenting level):			
4.3	Investigations performed (check all that apply):			
	EEG Visual evoked potential Somatosensory EEG			
	Brain imaging, if any: U/S			
	Summary of the findings:			
SEC	TION 5 – TREATMENT, FURTHER TESTS AND OUTCOME			
5.1	What prompted the initiation of IV dextrose in this setting (check all that apply)?			
•	Concerning serum glucose level			
	Concerning signs/symptoms			
	Unsuccessful strategies to normalize glucose levels in preceding hours			
	Other reason, specify:			
			Yes	No
5.2	Was an initial dextrose bolus given?		162	
	Specify the duration of subsequent IV dextrose infusion: days hrs			
	Time from start of IV to achieving whole blood or serum glucose level ≥2.0 was:I	nrs		
	Time from start of IV to stabilization (2 consecutive glucose values >2.6) was: hrs			
5.3	After the hypoglycemia episode, did the infant have a work-up for an underlying cause?			

SEC	TION 5 – TREATMENT, FURTHER TESTS AND OUTCOME (cont'd)	Yes	No
5.4	Was the infant found to have an underlying diagnosis or compounding factor?		
	Endocrine disorder?		
	If yes, specify:		
	Metabolic disorder?		
	If yes, specify:		
	Polycythemia?		
	If yes, what was highest hematocrit?		
	Other underlying diagnosis or compounding disorder?		
	If yes, specify:		
5.5	Status at time of discharge (check all that apply):		
	Well baby with no current or anticipated issues Guarded prognosis Uncertain prognosis	nosis _	
	Hearing concern Vision concern Hypertonia Hypotonia Seizures _		
	Feeding impairment; if so, infant requiring some tube feeds infant requiring exclusive	tube fe	eding
SEC	TION 6 - MOTHER'S MEDICAL HISTORY		
6.1	Age at delivery (years):		
6.2	Gravida Para		
6.3	Height: cm Pre-pregnancy weight: kg Pre-pregnancy BMI:		
6.4	Most recent available weight: kg Date: //		
0.5	DD MM YYYY		
6.5	Weight at 28 weeks, if available: kg  Yes	No	Unknown
0.0		NO	Ulikilowii
6.6	Glucose tolerance test performed?		
	If yes, glucose load, if known: g		
	Fasting: mmol/L 1-h glucose level: mmol/L 2-h glucose level: mmol/L		
0.7	Results: Normal Abnormal		
6.7	Chronic hypertension predating pregnancy?		
6.8	Hypertension onset during pregnancy?		
6.9	Pre-eclamptic toxaemia (PET)?		
6.10	Hemolysis, elevated liver enzymes, low platelet count (HELLP)?		
6.11	Antenatal concern re. growth, but newborn deemed not growth-restricted?		
6.12		م میں میان د ما	la:aalaaa
	β blocker metformin betamethasone dexamethasone prednisone met		
0.40	antibiotic magnesium sulfate Other medications:		
6.13	Placenta weight, if known: g		
	I agree to be contacted by the CPSP for further information.		
	I do not wish to be contacted by the CPSP for further information.		
SEC	TION 7 – REPORTING PHYSICIAN		
First i	nameSurname		
Addre	ess		
	Province Postal code		
	phone number Fax number		
	il Date completed		