## ALGORITHM FOR THE SCREENING AND IMMEDIATE MANAGEMENT OF BABIES AT RISK FOR NEONATAL HYPOGLYCEMIA **NEWBORN BABY** ROUTINE CARE: Is the baby at FEED ON DEMAND ROUTINE risk? SGA, AS LONG AS INFANT NO NO CARE: Is the LGA, IDM REMAINS WELL INITIAL or preterm baby **FEED** unwell? YES WHEN TO YES **BABY** STOP BECOMES **TESTING: IDM** UNWELL AND LGA DO CHECK GLUCOSE AT 2 HRS AND EVERY 3-6 HOURS (BEFORE **CHECK** NOT REQUIRE FEEDS) AS LONG AS INFANT REMAINS WELL, UNTIL FEEDS ARE **GLUCOSE** RETESTING IF ESTABLISHED AND GLUCOSE ≥2.6 mmol/l NOW: SUGAR ≥2.6 **INVESTIGATE** mmol/l AFTER FOR CAUSE 12 HOURS OF AND TREAT AGE AS THEY ANY **USUALLY UNDERLYING** PRESENT BY 1.8 - 2.0 mmol/l at >2.0 mmol/l at <1.8 mmol/l at CONDITION THIS TIME. 2 hours of age 2 hours of age 2 hours of age **PRETERM** or or AND SGA 2.0 - 2.5 mmol/l at <2.0 mmol/l at ≥2.6 mmol/l at **INFANTS DO** subsequent checks subsequent checks subsequent checks NOT REQUIRE **CONSIDER IV** RETESTING **TREATMENT** AFTER 36 **HOURS** Refeed and **PROVIDED** recheck glucose NOTE: REPEATED <2.6 mmol/l in STABLE in 1 hour GLUCOSE LEVELS an unwell baby LEVELS AND < 2.6 mmol/l IN AN AT CONSIDER IV **INTAKE ARE** RISK BABY REQUIRE **TREATMENT FURTHER ACHIEVED** INTERVENTION Remains ONCE ONLY Rises to <2.6 mmol/l≥2.6 mmol/l despite feeding after feeding **CONSIDER IV** TREATMENT INITIATE INTRAVENOUS INFUSION OF 10% DEXTROSE AT A RATE OF 80ml/kg/day (5.5mg glucose/kg/min). CHECK GLUCOSE 30 min AFTER ANY CHANGE AND ADJUST THERAPY (UP TO 100 ml/kg/day and/or 12.5% DEXTROSE) IN ORDER TO MAINTAIN GLUCOSE LEVEL ≥2.6mmol/l. IF RATES IN EXCESS OF 100 ml/kg/dav OF 12.5% DEXTROSE ARE REQUIRED INVESTIGATION, CONSULTATION AND/OR PHARMACOLOGICAL INTERVENTION ARE INDICATED. MAY START WEANING IV 12 HOURS AFTER STABLE BLOOD GLUCOSE IS ESTABLISHED. CONTINUED BREASTFEEDING IS ENCOURAGED.

Figure 1) Screening for neonatal hypoglycemia. IDM Infant of diabetic mother; IV Intravenous; LGA Large-forgestational-age; SGA Small-for-gestational-age. CPS Statement: www.cps.ca/english/statements/FN/fn04-01.htm

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