SF Children's Hospital

at UCSF Medical Center

Orders must be written in black or blue ink. Nurse transcribing the orders will indicate the transcription by signing their name and classification, the date and time the transcribing is completed. When an order is discontinued, write

	UNIT NUMBER
	PT. NAME
	BIRTHDATE
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"Discontinue" giving date and naming order. LOCATION SUBCUTANEOUS INSULIN ORDER SHEET FOR ALL PEDIATRIC PATIENTS Insulin Allergy: ☐ Yes ☐ No ☐ WEIGHT (kg) " $\sqrt{}$ " in box activates order Discontinue all previous insulin orders. 1. a. BLOOD GLUCOSE (BG) MONITORING: BEFORE meals at bedtime and 2AM. Also as needed for Hypoglycemic symptoms. b. Order Carbohydrate-controlled diet. Include
Morning snack
Afternoon snack
Bedtime snack 2. BASAL INSULIN DOSE (in units) DOSE **INSULIN** TIME DOSE TIME Glargine (Lantus®) Other: Pump basal settings with ☐ Aspart ☐ Lispro insulin: ___ 3. FOOD COVERAGE (Written as basic nutritional dose or carbohydrate ratio) (in units) (Add to high blood glucose correction) Check one: ASPART (Novolog) – formulary approved human analog insulin For human analog insulin doses less than 1 unit - order LISPRO (Humalog) Insulin 10 units/mL (See conversion chart on back of form) Other: BREAKFAST LUNCH **DINNER SNACKS** Insulin carb ratio __unit(s) per ___ gram _unit(s) per ____ gram ____unit(s) per ____ gram _unit(s) per ____ gram or YELLOW - NURSING COPY Basic nutritional dose 4. HIGH BLOOD GLUCOSE CORRECTION (ADD TO FOOD COVERAGE) (IN UNITS) **Check one:** ASPART (Novolog) – formulary approved human analog insulin For human analog insulin doses less than 1 unit - order LISPRO (Humalog) insulin 10 units/mL (See conversion chart on back of form) Other: **BG Range:** If <Target Treat for Hypoglycemia **BREAKFAST** LUNCH **DINNER BEDTIME** 2AM Per Protocol (See order #6) Target >80 or_ Target >80 or_ Target >80 or_ Target >120 or_ Target >120 or_ WHITE - PHARMACY 80 - 100 give food coverage only 101 - 150 151 - 200 201 - 250 ORIGINAL - MEDICAL RECORD COPY 251 - 300 301 - 350 351 - 400 5. CALL HOUSE OFFICER (HO) for BG < 80 mg/dL or > 400 mg/dL. 6. HYPOGLYCEMIA PROTOCOL for BG < target (see #4 above). a. For patient who can take PO, give 15gm of oral fast acting carbohydrate. (give three GLUCOSE tablets PO (5 grams / tablet) OR 4 oz juice OR ☑ b. For patient who cannot take PO, give D10W (0.2-1gm/kg) IV push. ____ gm/kg X ____ kg = ___ grams x 10 mL/grams = ___ mL.
 ☑ c. Check fingerstick glucose every 15 minutes and repeat above treatment until BG > Target mg/dL and then give insulin for food coverage. 05/07) WorkflowOne NOTE: Regular insulin should be given 15-30 minutes prior to meal. Aspart and Lispro (Humalog) Insulin 10 units/mL should be given when meal is present. Glargine should not be mixed with another insulin. Give Glargine as a separate shot. **Insulin should not be refrigerated once opened.** Store insulin in patient's cassette. M.D. # ___ _ _ Time ____ **Signature** Date _____ Pager #_ **FLAG CHART TO** Checked by R.N. Time _ INDICATE NEW ORDER

PEDIATRIC LOW DOSE - SUBCUTANEOUS INSULIN POLICY AND PROCEDURE

BACKGROUND Low doses of insulin are often indicated in pediatric patients. Low doses can be measured from commercial 100 units/mL insulins (U100), using "BD Ultra-fine II" 30 unit low dose insulin syringes. These insulin syringes are calibrated in 0.5 unit increments.

Occasionally very low doses (<1 unit) of insulin are needed in pediatric patients. Doses <1 unit cannot accurately be measured and administered from commercial 100 units/mL insulins (U100). Therefore, when doses <1 unit are ordered, the pharmacy will prepare a special insulin dilution of 10 units/mL (U10). Regular and Lispro insulin are the insulins used to titrate these very low doses and are the ones made in dilution by pharmacy. The only insulin dilution that pharmacy makes is 10 units/mL.

POLICY: Subcutaneous insulin Doses ≥ 1 unit will be administered using commercially available 100 units/mL insulins (U100).

Doses <1 units are administered from a pharmacy prepared special dilution of 10 units/mL (U10).

PROCEDURE:

- 1) Low dose insulin shall be administered using "BD Ultra-fine II" short 30 unit low dose insulin syringes. These syringes are available from Material Services.
- 2) When doses <1 unit are ordered, pharmacy will prepare a special dilution of 10 units/mL.
- 3) Pharmacy will dispense the special dilution of 10 units/mL to the patient along with a copy of this P&P with attached "10 units/mL insulin syringe conversion table". This insulin will be labeled for the individual patient and will be kept in the patient's cassette.
- 4) The nurse will use the conversion table to determine the calibration on the insulin syringe that represents the correct dose and will administer the insulin accordingly.
- 5) Once the dose is consistently 1 unit or greater, the special dilution of 10 units/mL will be returned to the pharmacy and commercial 100 units/mL will be dispensed.
- 6) Once this special dilution of 10 units/mL is discontinued it will be returned to the pharmacy.
- 7) Do NOT keep this special insulin dilution of 10 units/mL on the nursing unit once it is no longer indicated return it to the pharmacy.

10 units/mL Insulin - Insulin Syringe Conversion Table

For 10 units/mL Insulin (Special Dilution)
Use the following table to convert:
Ordered <u>UNITS</u> of Insulin to the <u>CALIBRATION</u> on the Insulin Syringe

ORRESPONDING <u>CALIBRATION</u> ON
INSULIN SYRINGE
10
9
8
7
6
5
4
3
2
1