

**INSULIN PUMP SUPPLEMENT TO DIABETES MEDICAL MANAGEMENT PLAN**

<i>STUDENT'S NAME:</i> _____		<i>SCHOOL YEAR: 2017-18</i>
Pump Brand/Model: _____		
Blood sugar target range: 70 mg/dl – 120 mg/dl      Insulin Type:      Humalog      Novalog      Apidra		
<b>Use pump bolus calculator to determine all meal, snack, and correction doses unless a set or pump malfunction occurs.</b>		
<b>BLOOD SUGAR CORRECTION</b> - formula for blood sugar if over target:  Blood Sugar - _____ + _____ = units of insulin needed. Corrections will be given at meal times unless otherwise specified.		
<b>INSULIN TO CARBOHYDRATE RATIO:</b>  Breakfast – 1: _____,      AM Snack – 1: _____,      Lunch – 1: _____,      PM Snack – 1: _____ Student is to receive carbohydrate bolus immediately <b>before</b> or <b>after</b> eating.		
<b>GYM/ACTIVITY</b> instructions. Patient may use temporary basal or disconnect for up to one hour at a time for any contact sports. Parent may determine how to handle pump instruction for activity.		
<b>PUMP SUPPLIES</b> including infusion sets, reservoirs, batteries, insulin, syringes/insulin pen, dressings/tape, and pump instructions must be provided by parents and may be kept in clinic.		
<b>STUDENT PUMP SKILLS</b>		
<p><b>STUDENT NOT INDEPENDENT IN PUMP MANAGEMENT</b> Student cannot independently administer boluses, evaluate pump function, or change infusion sets. Insulin boluses will be given / verified / observed as follows:</p> <ul style="list-style-type: none"> <li>• All diabetes care will have direct oversight by trained adult.</li> </ul>	<p>School Nurses/Personnel are not routinely trained on use of specific insulin pumps, and are not expected to perform complex pump operation tasks.</p> <p>If student is not independent in set changes the parent/guardian will be contacted if set changes are needed.</p>	
<p><b>STUDENT INDEPENDENT IN PUMP MANAGEMENT</b> Student has been trained to independently perform routine pump management, calculate dosages, and troubleshoot problems. Assistance is not needed. Includes, but is not limited to:</p> <ul style="list-style-type: none"> <li>• Giving boluses of insulin for both correction of blood sugar above target range and for food eaten.</li> <li>• Changing of insulin infusion sets using universal precautions</li> <li>• Switching to insulin injections if the pump malfunctions.</li> </ul>	<p>Insulin may be given by injection until set is changed, per student's Diabetes Medical Management Plan.</p> <p>If administering insulin by injection, pump must be suspended or disconnected.</p>	
<p><b>PARENT/GUARDIAN NOTIFICATION:</b> Refer to basic Diabetes Medical Management Plan and check all that apply.</p> <p><input type="checkbox"/> Pump alarms /malfunctions</p> <p><input type="checkbox"/> Soreness or redness at infusion site</p> <p><input type="checkbox"/> Detachment of dressing/infusion set</p> <p><input type="checkbox"/> Leakage of insulin</p> <p><input type="checkbox"/> If student must give insulin injection</p>		
<p style="text-align: right;">If corrective measures do not return blood sugar to target within 2hrs Other _____ _____ _____</p>		

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*HIGH BLOOD SUGAR (Hyperglycemia): Follow instead of the basic Diabetes Medical Management Plan*

### STUDENT NOT INDEPENDENT PUMP MANAGEMENT:

- Check ketones if blood sugar is  $\uparrow$  300 mg/dl - If **ketones are negative**.
  1. Check site, infusion set, and pump
  2. If no problems are discovered, give bolus based on usual correction dose (**do not give correction doses closer than every 2 hours apart**)
  3. Encourage carbohydrate-free fluids, at least 8 oz. per hour, and return to class.
  4. Recheck blood sugar in 1 hour
  5. If blood sugar is not at least 100 mg lower, call health care provider and parent/guardian to manage
  6. If student is vomiting or unable to return to class within a reasonable amount of time, send home with adult supervision
- **If Ketones are positive (moderate to large) call healthcare provider and parent/guardian for management.**

### STUDENT INDEPENDENT IN PUMP MANAGEMENT:

- Check for ketones if blood sugar is  $\uparrow$  300 mg/dl. If ketones are negative:
  1. Follow steps 1 through 4 above
  2. If blood sugar is not at least 100 mg/dl lower in one hour:
    - Take and injection with a syringe based on correction formula
    - Follow health care provider's guidelines for ketone management
- **If ketones are positive (moderate to large)**
  1. **Notify health care provider and parent/guardian for management**
  2. Give carbohydrate-free fluids – at least 8 oz. per hour
  3. Follow health care provider's guidelines for ketone management
  4. If student is vomiting or unable to return to class within a reasonable amount of time, send home with adult supervision

*LOW BLOOD SUGAR (Hypoglycemia)*

Follow basic Diabetes Medical Management Plan, **except:**

- A follow-up longer acting snack is not necessary after a hypoglycemia episode
- Notify parent/diabetes provider for additional instructions if hypoglycemia occurs again without explanation

### If seizure or unresponsiveness occurs:

1. Treat with glucagon emergency injection
2. Call 911 and notify parents
3. Stop insulin pump by:
  - a. Placing pump in "suspend" or stop mode (see copy of manufacturer's instructions)
  - b. Disconnect tubing at connection site (not at pump)
4. Send pump with EMS to hospital if it has been disconnected.

*SIGNATURES: The following have read and agree to adhere to the above plan*

Health Care Provider:

Date:

Parent/Guardian:

Date:

Student:

Date:

School Nurse:

Date: