

Coastal Kids Endocrinology & Weight Management

## Pump malfunction and backup plan

07/2026

### 1. Pump Failure

- Replace the pump or pod immediately if possible.
- If you cannot reconnect, begin your backup insulin plan.

### 2. Long-Acting Insulin (*Glargine, Lantus, Basaglar, Degludec*)

- Dose: \_\_\_\_ units once daily.  
Give long-acting insulin when the pump is removed.  
Find your Total Daily Basal in pump settings (hourly basal × 24 hours or Total Daily Basal).  
It is typically 30-50% of total daily dose.

### 3. Rapid-Acting Insulin (*Aspart, Novolog, Fiasp, Lispro, Humalog, Admelog, Apidra, Glulisine*)

- Meals: 1 unit per \_\_\_\_ grams of carbohydrate **PLUS** correction: 1 unit for every \_\_\_\_ mg/dL above 120 mg/dL.
- Snacks: 1 unit per \_\_\_\_ grams of carbohydrate.  
Do NOT give correction insulin at snack time.

### 4. Check Ketones when:

Blood glucose is unexpectedly above 250 mg/dL for more than 2 hours while on pump  
Vomiting or nausea  
Illness or fever regardless of blood sugar  
Suspected pump failure or missed insulin

### 5. If Moderate or Large Ketones

- Give the correction dose **by injection** (pen or syringe), **NOT through the pump**.
- ADD "**an extra sick-day dose**" of rapid-acting insulin to every correction dose.  
If you do not know your child's sick-day dose, follow the guideline below:  
*8 years and younger- add 1 unit*  
*9-12 years- add 2 units*  
*13-15 years- add 3 units*  
*16 years and older- add 4 units.*
- Drink plenty of sugar-free fluids.  
The child should drink "age in years" ounces every hour until the ketones clear.  
(Example: If the child is 8 years old, then they should drink 8 oz every hour.)
- Change the pump site, tubing, and insulin cartridge/reservoir (or pod) before reconnecting your pump.
- Recheck blood glucose and ketones every 2-3 hours.
- Do not use pump for boluses unless blood sugar less than 200 mg/dl and/or ketones are trending down.  
Do NOT give correction insulin more often than every 3 hours while taking injections, unless instructed otherwise.
- Continue adding the extra sick-day insulin to each correction dose until ketones are trace or small.

### Contact the Office

- Contact the office if you have questions or doubts via the **patient portal** or at **(850) 203-6654**.
- Go to the **Emergency Department** if vomiting continues, ketones worsen, or your child cannot keep fluids down.