

# Pump Ketone Treatment and/or Sick Days

## Blood sugar is more than 250 or Feeling Sick My Child **Can** Eat and Drink **ON PUMP**

Ketone Level	Blood Sugar Testing	Ketone Testing	Food and Drink	Treatment	Insulins
<b>NEGATIVE</b> Urine Ketones (Blood ketones less than 0.6)	<b>Test as usual</b> (At least every 4 Hours)	<b>CHECK</b> ketones with every trip to the bathroom or diaper change (every 8 hours if checking blood ketones)	Usual meal plan with extra water or sugar-free fluids (at least one ounce per year of age per hour)	<b>MONITOR</b> and treat blood sugar as usual. During illness, your child may have higher blood sugars than normal	<b>CONTINUE</b> your mealtime dosing as usual
<b>TRACE-SMALL</b> Urine Ketones (Blood ketones 0.6-1.5)	<b>Every 2 Hours</b>	<b>CHECK</b> ketones with every trip to the bathroom or diaper change (every 4 hours if checking blood ketones)	Usual meal plan with extra water or sugar-free fluids (at least one ounce per year of age per hour)	<b>GIVE</b> a correction insulin dose <b>EVERY 2 HOURS</b> based on current blood sugar. *If blood sugar doesn't go down by at least 50 points in one hour, give a full correction dose by <b>INJECTION</b> and change site	<b>CONTINUE</b> your mealtime dosing as usual <b>INCREASE basal rate</b> by 20% while trace - small ketones continue
<b>MODERATE-LARGE</b> Urine Ketones (Blood ketones more than 1.5)	<b>Every 1 Hour</b>	<b>CHECK</b> ketones with every trip to the bathroom or diaper change (every 2 hours if checking blood ketones)	Usual meal plan with extra water or sugar-free fluids (at least one ounce per year of age per hour)	<b>GIVE</b> a correction insulin dose <b>EVERY 1 HOUR</b> based on current blood sugar *if blood sugar doesn't go down by at least 50 points in one hour, give a full correction dose by <b>INJECTION</b> and change site	<b>CONTINUE</b> your mealtime dosing as usual <b>INCREASE basal rate</b> by 50% while moderate - large ketones continue

**Even if your blood sugar is below 250, keep checking ketones and using chart until ketones are NEGATIVE.  
If ketones aren't improving after 3 injections, call 901-287-6659 for help**

# Pump Ketone Treatment and/or Sick Days

**Blood sugar is more than 250 or Feeling Sick  
My Child **Can't** Eat, but **Can** Drink **ON PUMP****

Ketone Level	Blood Sugar Testing	Ketone Testing	Fluids	Treatment	Insulins
<b>NEGATIVE-SMALL</b> Urine Ketones (Blood Ketones 0.0-1.5)	<b>Every 2 hours</b>	<b>CHECK</b> ketones with every trip to the bathroom or diaper change (every 4 hours if checking blood ketones)	<b>DRINK</b> at least one ounce of fluid per year of age per hour  <b>Blood sugar lower than 250</b> , up to 1 cup (8 ounces) of fluid per hour should <b>HAVE SUGAR</b> , and the rest should be <b>SUGAR-FREE</b>  <b>Blood sugar higher than 250</b> , all fluids should be <b>SUGAR-FREE</b>	<b>GIVE</b> a correction insulin dose <b>EVERY 2 HOURS</b> based on current blood sugar  *If blood sugar doesn't go down by at least 50 points in one hour, give a full correction dose by <b>INJECTION</b> and change site	<b>Increase basal rate</b> by 20% while trace - small ketones continue
<b>MODERATE-LARGE</b> Urine Ketones (Blood ketones larger than 1.5)	<b>Every 1 Hour</b>	<b>CHECK</b> ketones with every trip to the bathroom or diaper change (every 2 hours if checking blood ketones)	<b>DRINK</b> at least one ounce of fluid per year of age per hour  <b>Blood sugar lower than 250</b> , up to 1 cup (8 ounces) of fluid per hour should <b>HAVE SUGAR</b> , and the rest should be <b>SUGAR-FREE</b>  <b>Blood sugar higher than 250</b> , all fluids should be <b>SUGAR-FREE</b>	<b>GIVE</b> a correction insulin dose <b>EVERY 1 HOUR</b> based on current blood sugar  *If blood sugar doesn't go down by at least 50 points in one hour, give a full correction dose by <b>INJECTION</b> and change site	<b>Increase basal rate</b> by 50% while moderate - large ketones continue

**If you are VOMITING AND HAVE KETONES, OR CANNOT DRINK  
Call Nurse or Doctor on call at 901-287-6659 or GO TO THE EMERGENCY ROOM**

**Even if your blood sugar is below 250, keep checking ketones and using chart until ketones are NEGATIVE.  
If ketones aren't improving after 3 injections, call 901-287-6659 for help**