

Preventing DKA When Using a Pump

Look for the following problems whenever your BG is above 250 mg/dl
and/or ketones are present.

Site Tubing Operator Pump: STOP

S T O P

Site	Tubing	Operator	Pump
1. Bleeding	7. Blood	12. Forgotten Bolus	16. Alarms/Error Codes?
2. Redness	8. Air Bubbles	13. Site Change Due	17. Correct Time & Date Set
3. Swelling	9. All Connections Secure & Tight	14. Insulin Has Been Exposed To Heat Or Cold	18. Correct Basal Rates Set
4. Painful	10. Insulin Leak? (Do Tissue Test)	15. Was Tubing Primed When Site Was Changed	
5. Falling Out	11. Was Tubing Primed When Site Was Changed		
6. Is It At A Waist Line, Belt Line Or Bend Line			

WHEN TO CHANGE THE INFUSION SITE

*Whenever blood is seen anywhere in the tubing or at the infusion site

*Whenever you have pain or discomfort at your infusion site

*Whenever you have moderate or large ketones

Potential Problem	Steps to Correct the High BG
#1-7	<ul style="list-style-type: none"> *Change the entire infusion set (site and tubing) *Check for ketones no matter what BG is *If ketones are present, refer to “Troubleshooting Ketones” sheet
#8	<ul style="list-style-type: none"> *Disconnect tubing from infusion site and prime the air out of the tubing
#9	<ul style="list-style-type: none"> *Tighten all connections at pump at connection site *Be careful not to over-tighten
#10	<ul style="list-style-type: none"> *Replace tubing if tissue test is positive (there is fluid on the tissue after running it along the tubing)
#11 & #15	<ul style="list-style-type: none"> *Disconnect tubing from insertion site and prime tubing until 5-6 drops of insulin are observed at the end of the tubing
#12	<ul style="list-style-type: none"> *Check BG *Check for ketones *Do correction bolus based on Correction Factor programmed into pump *If ketones are present, refer to “Troubleshooting Ketones” sheet
#13	<ul style="list-style-type: none"> *Change the infusion site
#14	<ul style="list-style-type: none"> *Remove current cartridge *Fill new cartridge with room temperature insulin *Disconnect tubing from site *Prime tubing until 5-6 drops of insulin are observed at the end of the tubing
#16	<ul style="list-style-type: none"> *Acknowledge error code and follow prompts on pump *If unsure, call 24 hour pump support listed on back of pump. If that fails then call your diabetes provider.
#17	<ul style="list-style-type: none"> *Reset correct time and date according to instructions in pump user guide
#18	<ul style="list-style-type: none"> *Reset basal rates to previous settings *Make sure to write down current basal rates

References:

Walsh J. & Roberts, R. (4th ed). (2006). Pumping Insulin. San Diego: Torrey Pines Press.

Wolpert, H. (2002). Smart Pumping for People with Diabetes. American Diabetes Association.