Diabetes: Filling in the Blanks

indicate not concerning, concerning, or greatly concerning

	* See QR Codes	"Is your child wearing a continuous glucose sensor?" (LIBRE, DEXCOM)		instructions	"Would you show me how you check your Blood Sugar?" * See QR codes for specific meter	Monitoring Blood Glucose
Has had them but won't wear or they always fall off	Not currently wearing sensor; has insurance issues	Currently wearing sensor; sharing data*, including meal doses, carbs, times	Can't find it, or it's somewhere else Doesn't have strips or can't get meter to work Date wrong Family unable or unwilling to give you a logbook, sensor download, meter download or pump download	The child does not have their own meter; sharing with another family member; they can't go back through meter memory (correctly dated) and show you recent blood sugars. They have a meter that cannot be downloaded (so that we can see what blood sugars have been and can adjust insulin)	Has their own blood sugar meter Can demonstrate correct use* Can show you recent memory with recent date If they do not have a sensor, they should be checking blood sugars before each meal and at bedtime at the very least	Assessment
paranto are bailly profited. The house appearance in the thir this would	flag. The parent can see the child's blood sugar from Dexcom if they both are using phones. This makes supervision much easier if	Sensors are now the Standard of Care. Medicaid covers them. There may be temporary lapses in coverage, but if they are not interested in getting a sensor for the child, that should be a red	Regardless of how they check and track their blood sugars, if the family cannot show them to you as a meter download, logbook, CGM download or pump download, this means that either they are not looking at blood sugar and/or the provider cannot adjust the insulin. This puts them at high risk of DKA or severe low blood sugar.	to adjust insulin.	If the patient is currently wearing a sensor, they should still have a meter; patients need to check using fingerstick and a meter instead of trusting the sensor after treating a low blood sugar and if the sensor doesn't match their symptoms. Diabetes care providers can only make decisions based on data including blood sugars, doses and carbs. All 3 are needed in order	Rationale

Giving Insulin	Assessment	Rationale
"How does your child receive insulin?"	Can tell you:	The clinic will tell you the last doses patient has
	Who supervises and gives each dose	been told to use. This will include
Answers could include from a vial and	name of the long-acting insulin	 Long-acting dose
syringe, from an insulin pen, from a SMART	what the dose is	Breakfast ratio
PEN (In-Pen) or from an INSULIN PUMP.	time of day taken	Lunch ratio
	name of short-acting insulin	Supper ratio
"How do you calculate the dose the child	ratio used for breakfast	Snack ratio
receives?"	ratio used for lunch	Correction Factor
	ratio used for supper	Target
If the patient and family cannot do the	ratio used for snacks	The dose of short acting insulin is calculated by
math, we may have given them a SLIDING	Correction Factor	dividing grams of carb to be eaten by the
SCALE. See next page. These are answers for	Target	denominator of the ratio for the meal or snack;
patients receiving insulin with a vial and	 The process to calculate the meal dose with 	this is the Meal Dose; The calculation for
syringe or an insulin pen that does not	correction	correction is:
calculate the dose. See next page for	Meal doses are ideally given before the meal.	Blood sugar – Target=X
questions about smart devices.	They may be given after the meal if the child is ill	X divided by Correction Factor= Y
	or under 5.	Y + Meal Dose are added to provide the dose
"Please draw up a dose of 2 units in your	The insulin should appear perfectly clear; once	given.
syringe or pen and show me how it is	opened it may be kept at room temperature but	
injected into this towel"	unopened vials should be kept in the refrigerator.	

"Who gives the insulin?" Giving Insulin Assessment Rationale

when they get the insulin?" "Is your child supervised

dose.) for the child to receive a into a towel if it is not time dose of insulin?" you calculate and inject a (You can have them inject "Would you show me how

> doses are or how doses are Parent cannot tell you what calculated, child under 12

with anyone; doses after The child does not check in

marked; school reports they Insulin date opened is not meal; A1c over 8.5% do not have supplies

> examples that you can ask the If you would like to see an section. There are also example of how the dose is calculated, there is an example answers on the next page!) parents/patient to do (with included at the end of this

than age); can't find insulin or it or give the insulin dose, child is under 12 and/or A1c more No one is assigned to supervise has been in the car or is cloudy

····	***************************************			·			
			301-400 give 5 units Insulin using INPEN	Example if blood sugar 100-200 give 3 units 201-300 give 4 units	Way be only for correction May have different one for each meal	Continued	Giving Insulin
Cannot find pen. App is not on the phone or they can't show it to you. Insulin expired or no insulin to put in pen. Cannot tell you how it works or how to do a report.	Family can show you how device works, but cannot show you a report or settings do not match what provider says they should be	has ordered.	Family can show you how a dose is administered with their	Can't find a copy of sliding scale at home or none at school.	be copy at school and at least one at home.	should be able to show you the Sliding Scale: there should	Assessment
	ACTUALLY GIVEN TO THE CHILD. If they cannot produce the device to give insulin to the child, have no record of the insulin having been given, there is no evidence of insulin being given to the child by another.	the dose the pen delivered. InPen CANNOT TELL YOU THAT THE INJECTION WAS	The In-Pen is a pen device that will calculate the dose of	This indicates that the child is not being given doses we have prescribed.	math; they are updated at each visit.	Sliding scales are given to parents who are unable to do the	Rationale

ASSESSMENT

Ask **provider** if a download of recent data available; if there is, what it says about the following;

- Treat low blood sugars
- Program insulin for meals
- Fill reservoir or pod with insulin and change pod or infusion set, tubing and reservoir every 3 days
- Respond immediately to all alerts and alarms. If blood sugar is continually high, the pump is not working and the site should be changed

Not changing pod or infusion set every 3 days, but no ED visits or hospitalizations due to DKA

Do not have pump on their body and cannot show you vials and syringes or pens and pen needles for both short and long-acting insulins. Not changing pod or infusion set every 3 days and having ED visits or hospitalizations due to poor Diabetes control or DKA

- Not providing pump data to providers consistently
- Not providing pump data to providers after multiple request

RATIONALE

This is information that is easiest to tease out from a download of the pump, however we may not have it.

- Patients/families may make no attempt to upload the data from the pump
- May not know how to do or be willing to work with us to teach them
- May not be able to afford cell phone that is compatible with pump

f not wearing pump and can't show you hov hey are administering short and long-acting nsulins, this is a grave concern.

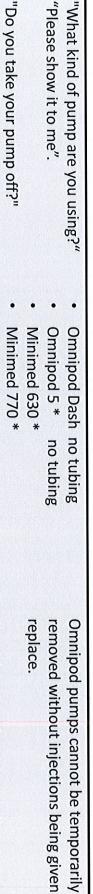
We are here to assist you with pump downloads, including our assessment of their control

Insulin pumps

What to Ask Assessment

Rationale

*Uses CGM to calculate dosing



Minimed 780 *

Tandem Basal IQ *

Tandem Control IQ *
 removed for a longer p
 Any pump can fail to maintain blood sugar if injection replacement.
 it is off for more than an hour at a time or if
 patient is not changing out every 3 days, or short acting insulin, if t

on?"

"What do you do when you don't have it

The Omnipod pump can be left on to swim or shower. Other pumps must be taken off and left off for no more than 1 hour. If they must be off longer than that, insulin will have to be given by injection

removed without injections being given to replace.

The others may be temporarily removed for bathing, swimming for an hour or so; if removed for a longer period of time need

Because there is nothing in pumps but short acting insulin, if the <u>Cannula</u> is crimped the patient is at high risk for serious, life-threatening **DKA** (**Diabetic Keto-Acidosis**). Unfortunately, you cannot see this except by looking at blood sugar and measuring ketones.