

Inpatient Insulin Guidelines (Adult, Non-Pregnant Patients)

GLYCEMIC TARGETS

- Blood glucose (BG): 140 180 mg/dL
- Acceptable range: 100 220 mg/dL
- Individualize per patient. Consider less restrictive goals for patients at risk for hypoglycemia.



AVOID Severe Hypoglycemia (BG < 40 mg/dL) and Severe Hyperglycemia (BG > 300 mg/dL)

HYPOGLYCEMIA Risk Factors



Pancreatic disease

HYPERGLYCEMIA Risk Factors

Diabetes progression*
High-dose steroids*
Infection
Severe illness
Surgery
Diet nonadherence
Medication
nonadherence

*Endocrinology Consult Recommended

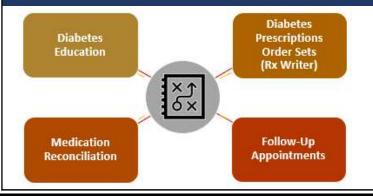
ENDOCRINOLOGY CONSULT CRITERIA

Page MD via AMION desktop app



- **REQUIRED:** BG < 50 mg/dL, insulin infusion pump
- RECOMMENDED:
 - Newly diagnosed DM
 - BG > 300 mg/dL (≥ 2 consecutive days)
 - BG > 250 mg/dL after insulin adjustment
- DKA/HHS ready to bridge with SC insulin
- Enteral/tube feeds
- Parenteral nutrition
- High-dose steroids

DISCHARGE PLANNING CHECKLIST



INSULIN GUIDELINES – Patients EATING MEALS

Insulin Initiation

STEP 1. Total daily dose (TDD) of insulin 0.2-0.4 unit/kg/day

Recommended Patients

Starting BG value (and

lowest correction dose)

In addition to Glargine HS

STEP 2.
Divide TDD:

Type 1 DM, ESRD, Other

Hypoglycemia Risk

301

(1 unit Aspart)

Glargine Aspart 50%

STEP 3. Divide prandial (Aspart) over 3 meals/day

Optional: Correctiondose insulin (LOW or MODERATE regimen)

Most Patients

301

(2 units Aspart)

CORRECTION-DOSE INSULIN (CDI) Regimens – See Full Details in Med Orders

MEALTIMES	LOW DOSE	MODERATE DOSE	HIGH DOSE				
Recommended Patients	< 30 Units TDD Insulin/ Hypoglycemia Risk	30 – 80 Units TDD Insulin/ Most Patients	> 80 Units TDD Insulin/ Refractory to MOD CDI				
Starting BG value (and lowest correction dose)	201 (Add 1 unit Aspart)	151 (Add 1 unit Aspart)	151 (Add 2 units Aspart)				
BEDTIME	LOW DOSE	USUAL DOSE					
	Prior Hypoglycemia,						

Patients EATING MEALS Continued INSULIN ADJUSTMENT GUIDELINES							
ASSESS DAILY BG trends	HYPERGLYCEMIA Management – Considerations Based on POC FS Result*						
☐ Missed insulin	BG	≥ 2 Fasting BG	≥ 2 Pre-LUNCH/Pre-DINNER	≥ 2 BEDTIME BG			
doses Additional/ Correction insulin doses Coral intake Hyperglycemia risk factors Hypoglycemia	> 180	↑ GLARGINE 1 - 2 units	↑ prandial ASPART 1 - 2 units	↑ prandial ASPART 1 - 2 units			
	> 250	↑ GLARGINE 2 - 3 units	↑ prandial ASPART 1 - 2 units	↑ prandial ASPART 1 - 2 units			
	> 300	↑ GLARGINE 2 - 4 units	↑ prandial ASPART 1 - 2 units	↑ prandial ASPART 1 - 2 units Consider adding Bedtime CDI			
	HYPOGLYCEMIA Prevention and Insulin Management Guidelines						
risk factors *If fasting and other BG > 180 (same day), prioritize reducing	70 - 99	 Assess hypoglycemia risk factors. Consider 1-2 unit reduction of CURRENT insulin dose. If fasting BG, consider 1-2 unit reduction of GLARGINE dose. If pre-lunch/dinner/bedtime BG, consider 1-2 unit reduction of prandial ASPART dose. Reduce correction-dose insulin to LOW intensity regimen. 					
fasting BG with GLARGINE. See Endocrinology Consult criteria.	< 70	 Assess patient. Verify insulin was held and hypoglycemia treated. If ASPART is due, omit current dose. If GLARGINE is due, reduce current dose by 2-4 units (Do NOT OMIT). Reduce bedtime GLARGINE or prandial ASPART dose for the next preceding meal. 					
	< 50	Same actions as for BG < 70, PLUS Consult Endocrinology.					

More INSULIN MANAGEMENT GUIDELINES (CDI = Correction Dose Insulin)								
STATUS	TDD Insulin	BASAL	PRANDIAL	Meal CDI	POC FS			
NPO	For Type 1 DM, DO NOT adjust/reduce dose.	omit Glargine. May need to	Discontinue	Insulin Aspart CDI at meal-	TID pre-meal times + HS			
	Day BEFORE Surgery (T1 If Glargine given in AM, g If given in PM, reduce do	give usual dose.		time schedule (TID)	Check FS 2- hr pre-op.			
	Day OF Surgery: If Glarging by 20-30% for Type 1 or	ne given in AM, reduce dose 50% for Type 2 DM.						
TPN If TPN abruptly stopped, give D10W at same rate.	TPN team orders in TPN bag if needed	Discontinue SC Glargine	Discontinue	Moderate CDI Insulin Regular QID	QID. Check FS if TPN stopped.			
ENTERAL FEEDS - BOLUS	Reduce TDD (Glargine + Prandial) by 20%	50% TDD as Glargine	50% TDD as Insulin Regular, divided over 4 boluses/day		QID prior to each bolus			
ENTERAL FEEDS - CONTINUOUS If feeds stopped ≥ 2 hr, give D5W at same rate.	Reduce TDD (Glargine + Prandial) by 20%	40% TDD as Glargine	60% TDD as Insulin Regular, divided over 4 boluses/day		QID. Check FS if feeds held > 2 hrs.			
CLEAR LIQUIDS		Give 50-70% of usual Glargine daily dose	Discontinue	CDI - Insulin Regular TID	TID pre- meals + HS			

Special Situations

DKA/HHS

- Follow hospital protocol (View on Pharmacy intranet)
- Protocol for ED/Critical Care use (Form available in ICU/ED)
- Consult Endocrinology when ready to bridge with SC insulin

INSULIN INFUSION PUMP (Patient's Own Pump)

- Endocrinology Consult and patient consent REQUIRED
- Will require insulin pump-specific orders
- Patient must supply own SC infusion pump supplies

References: (1) *Society of Hospital Medicine*. 2015;84:124-36. (2) *The Journal of Clinical Endocrinology & Metabolism*. 2022, 107, 2101–2128. (3) *Diabetes Care*. 2023;46(Suppl.1):S267–S278. (4) *Diabetes Care*. 2023;46(Suppl.1):S97–S110.