

Appendix 2

PERI-OP AND PERI-PROCEDURE ORDERS

For Type 2 diabetes patients undergoing surgery under GA (e.g. CABG)

- HbA1c.....
- Creatinine.....
- **Antidiabetic medications till the day before surgery-**
- Procedures should preferably be scheduled for the early morning if possible.
- BGs should be checked every 2 hours before, during, and after procedure.
- Give 5% dextrose or DNS @100ml/ hour 6 am onwards. (*if NPO >4 hrs*)
- Add regular insulin to 5% D/ DNS as per the blood glucose level at 6am (*if NPO >4 hrs*)

Blood glucose (mg/dl)	Regular insulin (to be added to 500ml of 5% D/ DNS)
<80	
81 to 150	
151 to 200	

Inform if blood glucose less than 80 or more than 200 mg/dl.

- Shift to insulin infusion **postoperatively till the patient is NPO**-start column 3.
- If the patient is on vasopressors, start column 6.
- **Shift to subcutaneous insulin once oral soft diet starts** as per the following chart

Time	Insulin	Dose
Before breakfast		
Before lunch		
Before dinner		
Bedtime		

Patient Label

Medanta Insulin Infusion Protocol for CABG patients

Patient ID: _____ **Target glucose range:** ____ to ____ (110-180 mg/dl if not specified)

Instructions:

- Dosage of insulin is to be given only as per one of the columns on next page
- Change of dosage column must be noted in the sheet below.

Monitoring blood glucose

- When BG is within target range - check BG every two hours
- 'When BG is outside target range - check BG at least once an hour

Changing insulin dosage

- If three consecutive readings, more than 200 mg/dl - Increase column by 1
- If two consecutive readings, less than 100 mg/dl - Reduce the column by 1

In case of hypoglycemia

- Blood glucose 60 to 80 mg/dl, give 50ml 25% dextrose IV push.
- Blood glucose less than 60 mg/dl, give 100ml 25% dextrose IV push.
- Check fingerstick glucose 15 minutes and repeat above treatment until BG is >100 mg/dl.
- Do not arbitrarily “hold” insulin without calling. Please call if dose change needed.

Please call the endocrinologist in case

- Patient started on soft diet
- TPN started or stopped
- Steroids started or stopped

To prepare insulin infusion

Add 40 units (1ml) of 40U Regular Insulin to 39 ml 0.9% normal saline.

Date	Time	Dosage column	Reason	Nurse sign	TL/ doctor sign



Patient Label

↓ Patients not on vasopressors start here ↓

↓ Patients on vasopressors start here ↓

COLUMN 1		COLUMN 2		COLUMN 3		COLUMN 4		COLUMN 5		COLUMN 6		COLUMN 7	
Blood glucose (mg/dl)	Rate (ml/hr)	Blood glucose (mg/dl)	Rate (ml/hr)	Blood glucose (mg/dl)	Rate (ml/hr)	Blood glucose (mg/dl)	Rate (ml/hr)	Blood glucose (mg/dl)	Rate (ml/hr)	Blood glucose (mg/dl)	Rate (ml/hr)	Blood glucose (mg/dl)	Rate (ml/hr)
Less than 80	0	Less than 80	0	Less than 80	0	Less than 80	0	Less than 80	0	Less than 80	0	Less than 80	0
81 to 100	0.0	81 to 100	0.2	81 to 100	0.3	81 to 100	0.4	81 to 100	0.5	81 to 100	0.8	81 to 100	1.0
101 to 120	0.0	101 to 120	0.4	101 to 120	0.6	101 to 120	0.8	101 to 120	1.0	101 to 120	1.8	101 to 120	2.0
121 to 140	0.3	121 to 140	0.7	121 to 140	1.0	121 to 140	1.4	121 to 140	2.0	121 to 140	2.5	121 to 140	3.0
141 to 160	0.5	141 to 160	1	141 to 160	1.5	141 to 160	2.0	141 to 160	2.5	141 to 160	3.0	141 to 160	4.0
161 to 180	0.8	161 to 180	1.4	161 to 180	2.0	161 to 180	2.6	161 to 180	3	161 to 180	4.0	161 to 180	5.0
181 to 200	1.0	181 to 200	1.8	181 to 200	2.5	181 to 200	3.4	181 to 200	4	181 to 200	5.0	181 to 200	6.0
201 to 220	1.5	201 to 220	2.2	201 to 220	3.0	201 to 220	4.0	201 to 220	5	201 to 220	6.0	201 to 220	7.5
220 to 240	2.0	220 to 240	2.7	220 to 240	4.0	220 to 240	5.0	220 to 240	6	220 to 240	7.0	220 to 240	9.0
240 to 260	2.5	240 to 260	3.3	240 to 260	4.5	240 to 260	6.0	240 to 260	7	240 to 260	8.5	240 to 260	10.0
260 to 280	3.0	260 to 280	3.9	260 to 280	5.5	260 to 280	7.0	260 to 280	8	260 to 280	10.0	260 to 280	12.0
280 to 300	3.5	280 to 300	4.6	280 to 300	6.0	280 to 300	8.0	280 to 300	9	280 to 300	11.0	280 to 300	13.0
300 to 320	4.0	300 to 320	5.3	300 to 320	7.0	300 to 320	9.0	300 to 320	10.5	300 to 320	12.5	300 to 320	14.5
320 to 340	5.0	320 to 340	6.0	320 to 340	8.0	320 to 340	10.0	320 to 340	12	320 to 340	14	320 to 340	16
340 to 360	6.0	340 to 360	7.0	340 to 360	9.0	340 to 360	11.0	340 to 360	14	340 to 360	16.0	340 to 360	18.0
360 to 380	7.0	360 to 380	8.0	360 to 380	10.0	360 to 380	12.5	360 to 380	16	360 to 380	17.0	360 to 380	19.0

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