QU 7R
Government of South Australia

# **BLOOD GLUCOSE & BLOOD** KETONE MONITORING CHART

SA Health

Site/Facility:

(MR-59H)

Affix patient identification label in this box
UR No:
Surname: Do not hand write these details, except when
Given Name:adhesive barcode labels are unavailable
Second Given Name:
D.O.B.: Sex/Gender:
Visit No. (if applicable):

Blood g	lucose (	BG	) targets
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General: 5.0 - 10.0mmol/L Obstetric: 4.1 - 7.9mmol/L Other: mmol/L

## Blood glucose (BG) monitoring instructions

- Test blood glucose (BG) according to frequency instructions.
- Place a dot (•) in the centre of the box which refers to the BG level and connect dots with a straight line.
- Record BG number in line below the graph. • Initiate actions according to colour zone.
- Treat all BG results less than 4.0mmol/L using the regional LHN Treatment of hypoglycaemia in people with diabetes in the hospital setting protocol.

### Blood ketone (BK) monitoring instructions

Blood ketones (BK) are a sign of insulin deficiency and risk of DKA. BK can occur in low or 'in target' blood glucose (BG)

- Test BK according to frequency instruction.
- Record BK result in line below the graph.
- Initiate actions according to colour zone.

#### Blood glucose (BG) monitoring frequency instruction

Routine (QID) Test before meals and at 2100hours until review by medical

practitioner.

Unstable (QID plus 0200hours) Routine times plus 0200hours if admission for hypoglycaemia or nocturnal hypoglycaemia suspected. Stable (BD)

If not at risk of hypoglycaemia and BG is between 5.0-10.0mmol/L, consider testing before breakfast and evening meal.

# Blood ketone (BK) monitoring frequency instruction (for patients on insulin)

Routine (Daily) If fasting.					Unstable If the BG greater than 15.0mmol/L.						Unwell If nausea or vomiting persist, recheck BK as per the RDR Instruction.							
Da	te																	
Tir	ne																	
	greater than 20.0																	
()	17.6 - 20.0				~													
<u> </u>	15.1 - 17.5																	
(mmol/L)	12.6 - 15.0																	
	10.1 - 12.5			. 4														
h B	7.6 - 10.0																	
Graph BG	4.0 - 7.5																	
Q	2.5 - 3.9																	
	lower than 2.4																	
BG																		

#### **Rapid Detection and Response Instruction**

Senior Registered Nurse (RN) review when a blood glucose (BG) or blood ketone (BK) result is in the yellow zone:

- BG is less than 4.0mmol/L (refer to Hypoglycaemia Protocol)
- BG between 10.1 20.0mmol/L

Hypo protocol (✓) Dr. Notified (✓) Intervention See overleaf

• BK is between 0.1 - 0.9mmol/L

Review: Recheck BG and/or BK in 2 hours.

Multi-Disciplinary Team (MDT) review when a blood glucose (BG) or blood ketone (BK) result is in the red zone:

- BG is less than 2.5mmol/L or greater than 20.0mmol/L
- Two consecutive BG results are greater than 15.0mmol/L
- BK is greater than 1.0mmol/L

Review: Recheck BG and/or BK in 1 hour or when medically ordered.

#### A Medical Emergency Response (MER) review must occur when:

- Blood glucose (BG) is less than 4.0mmol/L and the patient is unconscious, unsafe to swallow or has not responded to the Hypoglycaemia Protocol oral treatment in 45 minutes.
- The patient is drowsy, confused, breathing rapidly or having difficulty breathing or complaining of severe abdominal pain.

Review: Recheck BG and/or BK when medically ordered. Consult MedStar as may require transfer to HDU or ICU.

SA Health

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Page 1 of 2

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- LHN Treatment of hypoglycaemia in people with diabetes in the hospital setting protocol.

#### Blood ketone (BK) monitoring instructions

Blood ketones (BK) are a sign of insulin deficiency and risk of DKA. BK can occur in low or 'in target' blood glucose (BG)

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#### Blood glucose (BG) monitoring frequency instruction

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## Blood ketone (BK) monitoring frequency instruction (for patients on insulin) Routine (Daily) Unstable Unwell If the BG greater than 15.0mmol/L If nausea or vomiting persist, recheck If fasting. BK as per the RDR Instruction. **Date Time** greater than 20.0 17.6 - 20.0 BG (mmol/L) 15.1 - 17.5 12.6 - 15.0 10.1 - 12.5 7.6 - 10.0 raph I 4.0 - 7.5 2.5 - 3.9lower than 2.4 BG BK Hypo protocol (✓) Dr. Notified (✓) Intervention See overleaf

Interventions of Review		
Record intervention below and note corresponding letter in intervention row below graph.	Initial	Designation
A		
В		
C		
D .		
E		
F		
G		
Н		