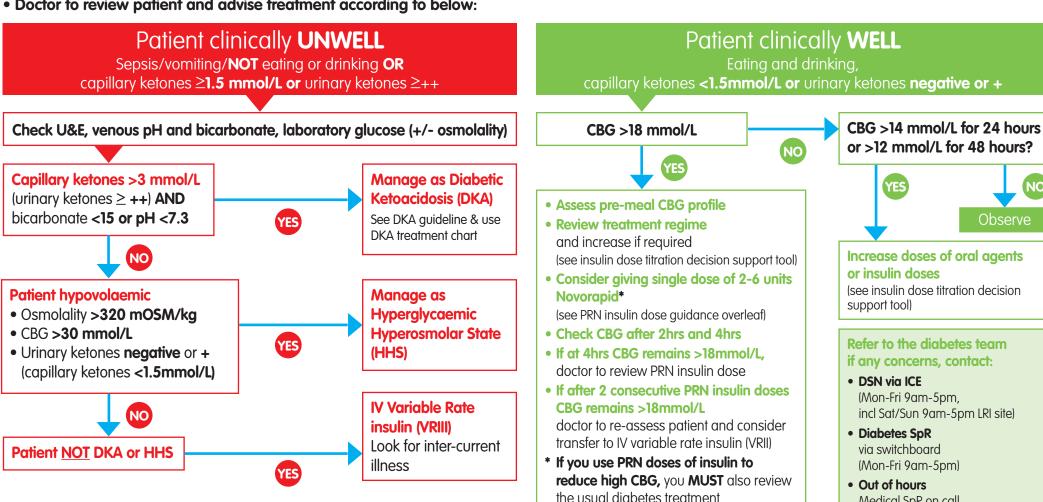
DIABETES DECISION SUPPORT TOOL



Medical SpR on call via switchboard

Management of Hyperglycaemia - High Capillary Blood Glucose Levels (CBGs) in Patients With Diabetes

- Pre-meal blood glucose (CBG) >12 mmol/L review patient and CBG readings. Check CBG pre-meal and bedtime as minimum
- Check for ketones (capillary or urine) in ANY patient known to have diabetes who is clinically unwell or in patients who are clinically well if CBG >18mmol/l
- Look for the cause consider inter-current illness, sepsis, missed/incorrect dose of oral hypoglycaemic agents or insulin/steroids/NG feeds
- Doctor to review patient and advise treatment according to below:



DIABETES DECISION SUPPORT TOOL



PRN INSULIN DOSE GUIDANCE FOR PATIENTS WITH DIABETES WHO ARE CLINICALLY WELL AND CBG >18mmol/L

- Standard CBG target for inpatients with diabetes 6-10 mmol/l (4-12mmol/l acceptable)
- Conservative CBG target: Frail older patients 7.8-10mmol/l, moderate/severe frailty and end of life 7.8-15mmol/L
- Guidance for PRN insulin doses given in table (below right). For patients with conservative target range consider reducing PRN insulin dose to avoid hypoglycaemia.

As a guide, 1 unit of Novorapid will reduce CBG by 3mmol/L Note:

Caution: Some patients with type 1 diabetes, particularly if slim, newly diagnosed or on very

small amounts of regular insulin, are very sensitive to insulin. Review PRN insulin dose

in context of their usual insulin dose, use PRN insulin doses with caution.

CBG (mmol/L)	PRN insulin dose (units)
18.1-25	4
≥ 25.1	6

THINK

Does this patient need a PRN insulin dose? Consider on an individual patient basis.

If NO: • Doctor to document

If YES: • Doctor to prescribe PRN dose of Novorapid 2-6 units subcut max frequency 4 hrly on the 'as required' section of the 'green chart' (Adult Insulin Prescribing and Glucose Monitoring Chart)

• Review PRN dose daily as PRN insulin doses can increase risk of hypoglycaemia.

*Note to nursing staff

Annotate on the 'green chart' the

ACTUAL number of units administered and repeat CBG at 2 and 4 hrs after PRN insulin dose.

If NO PRN doses required in 48hr period:

• STOP PRN Novorapid Insulin

If <2 PRN doses given in 48hr period:

- **CONTINUE** PRN insulin and
- Review daily
- Refer to diabetes team via ICE if any concerns.

If PRN doses given daily in 48 hr period:

- **Doctor to review insulin** +/- other diabetes medication
- Increase doses of insulin (see insulin titration decision support tool)
- Refer to diabetes team via ICE

Trust ref: B27/2019

1. Introduction and Who Guideline applies to

1.1 This guideline details the management of hyperglycaemia (capillary blood glucose >12mmol/l) in adult inpatients admitted to ward-based clinical areas in UHL. The guidance is applicable for both medical and nursing staff working in these areas.

2. Guideline Standards and Procedures

- 2.1 This guideline sets out in a flowchart (see appendix 1) an approach to managing hyperglycaemia for all adult inpatients admitted to adult inpatient wards in UHL.
- 2.2 If staff are unsure regarding the management of such patients despite referral to the guidance then they should seek advice from the specialist diabetes team or a senior colleague.
- 2.3 The Diabetes specialist nurse team can be contacted via ICE (electronic referral) or via switchboard (mobile phone) and this is a 7 day service 9-5pm at LRI and Mon-Fri 9-5pm at LGH and GGH. Diabetes SpR on-call via switch board Mon-Fri 9-5pm. Out of hours medical advice should be via the medical SpR on-call via switchboard.

3. Education and Training

All medical and nursing staff are required to complete essential to role Insulin Safety training. This training can be accessed via HELM and is renewable on a yearly basis.

4. Monitoring Compliance

Element to be monitored	Lead	Tool	Frequency	Reporting arrangements
Implementation of this guidance in appropriate areas.	Dr Kath Higgins, Helen Atkins, Julia Ball	Case note reviews, datix incident reporting, Inpatient diabetes dashboard	Continuous	Report to the Diabetes Inpatient Safety Committee monthly.

5. Supporting References

None required.

6. Key Words

Hyperglycaemia, Diabetes, Adult inpatients

CONTACT AND REVIEW DETAILS					
Guideline Lead (Name and Title): Dr Kath Higgins,	Executive Lead: Andrew Furlong, Medical				
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Details of Changes made during review:					
None.					