

## **1. Introduction**

This guideline is for all healthcare professionals looking after adult patients who are treated with steroids.

## **2. Guideline Standards and Procedures**

This guideline sets out in a flowchart (see appendix 1) an approach to managing hyperglycaemia and diabetes for all adult inpatients admitted to adult inpatient wards who require steroid treatment.

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.

NOTE: this guidance does not cover the management of hyperglycaemia associated with dexamethasone treatment for people with covid-19 infection. For guidance on this please refer to: [www.abcd.care/coronavirus](http://www.abcd.care/coronavirus)

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 clinical staff working in any location within UHL would be expected to seek support from a senior peer or member of the diabetes team if they if they were presented with a patient treated with steroids and they did not feel adequately trained to manage the situation.

**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**

<b>What will be measured to monitor compliance</b>	<b>How will compliance be monitored</b>	<b>Monitoring Lead</b>	<b>Frequency</b>	<b>Reporting arrangements</b>
Implementation of this guidance in appropriate areas	Case note reviews, datix incident reporting	Dr Kath Higgins, Fiona Adlam	Continuous	Report to the Diabetes Inpatient Safety Committee (DISC) – meeting frequency monthly.
<b>All medical and nursing staff</b>	Insulin safety dashboard	Dr Kath	Monthly	As above

<p><b>are required to complete essential to role Insulin Safety training. This training can be accessed via HELM and is renewable on a yearly basis.</b></p>	<p>which is presented monthly at DISC and report also to DAPB</p>	<p>Higgins</p>		

## **5. Supporting References**

Joint British Diabetes Societies IP grp: Management of Hyperglycaemia and Steroid (Glucocorticoid) Therapy. May 2021

[https://abcd.care/sites/abcd.care/files/site\\_uploads/JBDS\\_08\\_Steroids\\_DM\\_Guideline\\_FINAL\\_28052021.pdf](https://abcd.care/sites/abcd.care/files/site_uploads/JBDS_08_Steroids_DM_Guideline_FINAL_28052021.pdf)

Management of hyperglycaemia associated with dexamethasone treatment for people with covid-19 infection. For National please refer to: [www.abcd.care/coronavirus](http://www.abcd.care/coronavirus)

## **6. Key Words**

Steroids, Hyperglycaemia, Diabetes

<b>CONTACT AND REVIEW DETAILS</b>	
<b>Guideline Lead (Name and Title)</b> Dr Kath Higgins (Clinical Lead for Inpatient Diabetes Care)	<b>Executive Lead</b> <b>Mr Andrew Furlong</b>
<b>Details of Changes made during review:</b> N/A	

## Managing glucose control for adult inpatients on steroids (with and without known diagnosis of diabetes)

### Predisposing factors for hyperglycaemia with steroid therapy:

- ◀ Pre-existing type 1 and 2 diabetes
- ◀ Impaired fasting glucose or impaired glucose tolerance
- ◀ HbA1c - 6-6.5% (42 - 47 mmol/l)
- ◀ People previously hyperglycaemic with steroid therapy

### Not known to have diabetes:

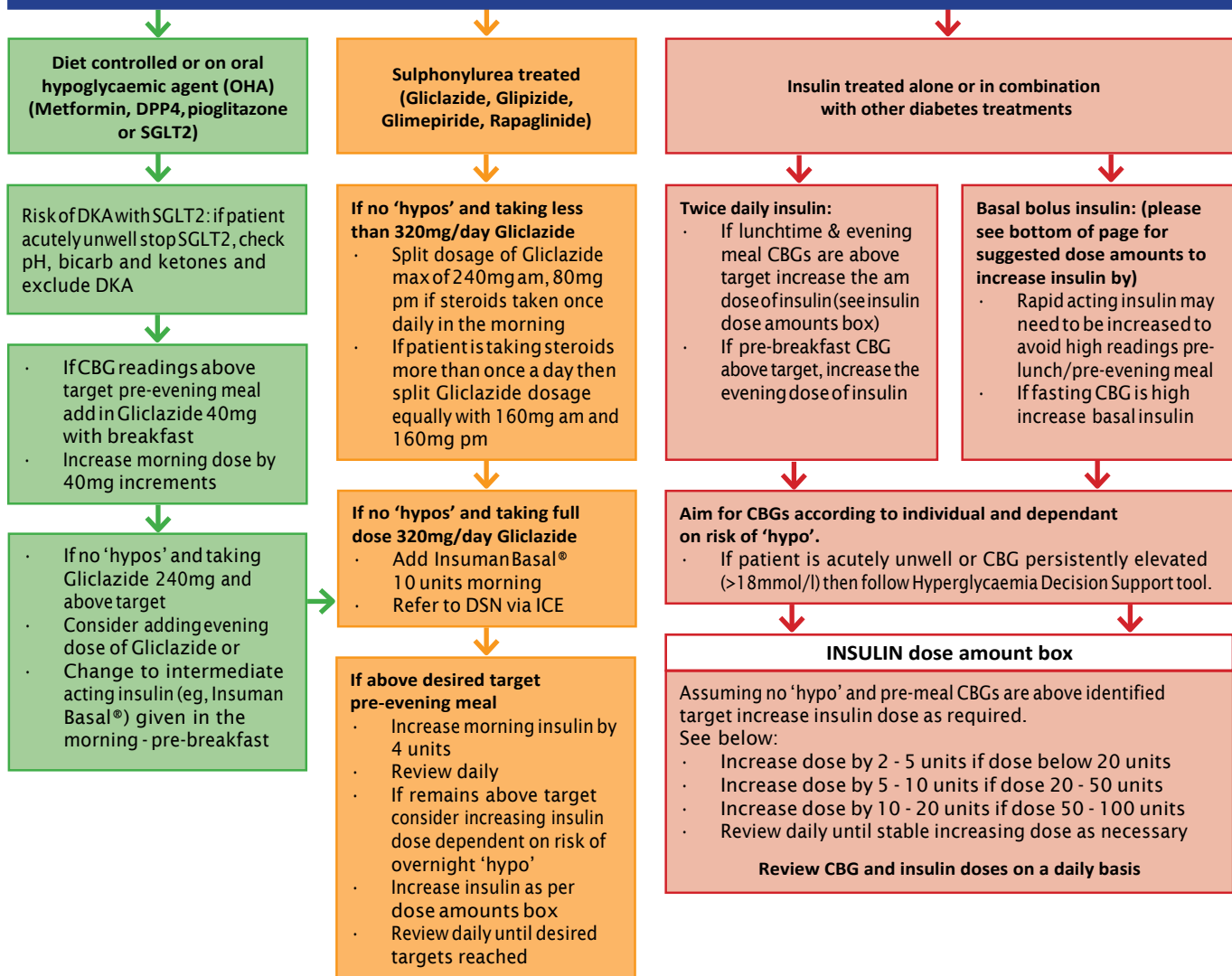
- Check CBG once prior to starting steroids
- Monitor CBG daily at least once (pre-lunch or pre-tea)
- If CBG >12mmol/l increase CBG testing to 4x day
- If CBG >12mmol/l twice in 24hrs continue to check CBG 4x day, check HbA1c and follow advice in the green column below
- Refer to DSN team via ICE. Patient may have steroid induced diabetes or a new diagnosis of diabetes

### Known Diabetes

- Reassess glucose control and current therapy
- Check CBG on a daily basis 4 x a day and use this flowchart to adjust diabetes medication accordingly.

### Glycaemic targets:

- If end of life care or mod/severe frailty aim for 6.7 - 15mmol/l
- Otherwise aim for 6 - 10mmol/l (acceptable range 6 - 12mmol/l)



### 1. When steroids are reduced or discontinued:

- Reduce Gliclazide or insulin in tandem with steroid reduction to avoid hypos and continue to monitor CBG.
- Never stop insulin in Type 1 diabetes.

### 2. If patient discharged and still tapering steroids/hyperglycaemic/requiring increased doses of diabetes medication then ensure:

- Clear management plan is made with patient/carers before discharge including any planned follow-up arrangement.
- Information is sent to GP. If not known to have diabetes and hyperglycaemia persists after discharge despite stopping steroids then a definitive test for diabetes should be undertaken.
- Patient has BG strips

### 3. For patients diagnosed with steroid induced diabetes whilst in hospital:

- If steroids stopped and CBG return to normal then no further CBG monitoring required but patient will need an HbA1c 3 months after discharge.

Please contact the Diabetes Specialist Team refer via ICE or Diabetes SpR on-call via switchboard (Mon - Fri 9am - 5pm)