

# London COVID-19 dexamethasone and hyperglycaemia: diabetes de-escalation guidance

Version 1

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This document will continue to be reviewed and re-released to reflect new and emerging evidence. Please email <u>england.diabetes-ldncn@nhs.net</u> to request the most recent version.

This London guide is designed to complement and not replace local guidance and professional judgement. It will be updated to align with other national and regional guidance once published.



## Dexamethasone in COVID-19 and hyperglycaemia COVID-19 Diabetes De-escalation

#### What is Dexamethasone?

Dexamethasone is a corticosteroid with predominant glucocorticoid (and minimal mineralocorticoid) effect. It has a long half-life and is proven to be of benefit in patients requiring oxygen with COVID-19 (ref: RECOVERY)

Corticosteroid	Dose	Half-life
Dexamethasone	6mg	36-72hrs
Prednisolone	40mg	12-36hrs
Hydrocortisone	160mg	6-12hrs

(ref:BNF)

#### Why does it matter?

Corticosteroid can cause hyperglycaemia, both in those with pre-existing diabetes and in those at risk of diabetes. COVID-19 also induces hyperglycaemia in many patients. COVID-19 infection coupled with corticosteroid treatments are causing an increase in hyperglycaemia and use of insulin. Some patients appear to have high insulin requirements during illness, which may continue beyond the cessation of their corticosteroid treatment.

#### What happens when Dexamethasone is stopped?

Usually when corticosteroids are stopped blood glucose levels return to their pre-COVID state. For some this may take up to a couple of weeks, is unpredictable and is often rapid, running the risk of sudden severe hypoglycaemia. Therefore stopping additional (steroid-related) diabetes medications on cessation of corticosteroids is recommended in most cases, except for those with pre-existing suboptimal glycaemic control (HbA1c ≥70mmol/mol).

For this reason measurement of HbA1c on admission is recommended to define discharge strategy.

#### On discharge:

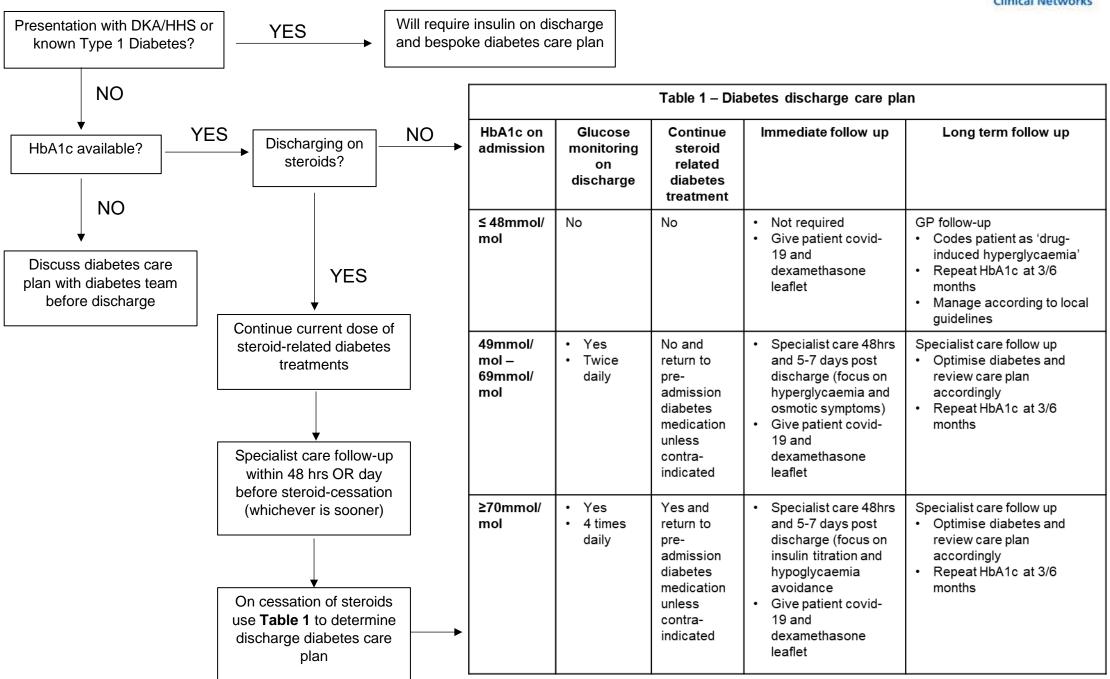
COVID-19 Diabetes De-escalation is designed to help teams define discharge care plan and follow-up. This is a guide and clinical judgement is needed.

On discharge provide patients with:

- Dexamethasone for COVID-19 letter (Appendix 1) to ensure they are aware of osmotic symptoms and have direct access to clinical advice if required.
- Local hypoglycaemia guidance or 'having a hypo' guidance by Diabetes UK
- Diabetes team contact details

#### **COVID-19 Diabetes De-escalation**







### Appendix 1 - patient letter

#### **Dexamethasone for Covid-19**

During your stay, you have been given a corticosteroid called Dexamethasone for Covid-19. These drugs are commonly used and are safe but the potential side effect is high blood glucose levels. Mostly this will not cause any symptoms, however the possible symptoms include:

- increased urination (weeing)
- weight loss (sudden onset)
- increased thirst
- increased tiredness and lack of energy
- fungal infection (Thrush)

As these symptoms are usually associated with diabetes, if you have any of these symptoms, please contact your diabetes team's helpline so that we can arrange a blood test.

If your blood glucose levels have become high on this drug you will need to book a blood test with your GP 3 months after your discharge from hospital to check that your blood glucose levels have returned to normal.

If you are discharged on insulin or Gliclazide tablets, this could lead to low blood glucose levels (hypoglycaemia) after the Dexamethasone has stopped. You are most at risk of low blood sugar levels from 36 hours after stopping the Dexamethasone.

If your blood glucose levels are lower than 4 mmol/l treat this using the hypoglycaemia or low blood glucose guidance (sometimes called sick day rules) provided by your diabetes team before discharge. If you are unable to treat your low blood glucose levels, contact your diabetes team's helpline.

If your blood glucose levels are higher than 18 mmol/l, contact your local diabetes helpline.

#### **Driving**

If you drive a motor vehicle and are now taking insulin or Gliclazide tablets you will need to follow the DVLA guidelines. For further advice please contact the diabetes team helpline.