

COVID-19 & PEOPLE WITH TYPE 1 DIABETES

March 2020

GOVERNMENT RECOMMENDATIONS ON SOCIAL DISTANCING FOR PEOPLE LIVING WITH DIABETES

We are keen to support you during the Covid-19 pandemic. Although people with diabetes are not more likely to catch Covid-19, the risks of becoming very unwell if you do get it are greater. As such, the government have recently recommended extreme social distancing measures for people living with diabetes. This is for a period of at **least 12 weeks from the 16th of March 2020 onwards**.

The full guidance can be found at: <https://www.gov.uk/government/publications/covid-19-guidance-on-social-distancing-and-for-vulnerable-people/guidance-on-social-distancing-for-everyone-in-the-uk-and-protecting-older-people-and-vulnerable-adults>

A summary of this guidance is below. People with diabetes fall into the ‘vulnerable group with an underlying health condition’ in the below table.

Summary of advice

Group/ Action	Wash hands more often	Household isolation for 14 days*	Self - isolation for 7 days**	Social mixing in the community***	Having friends and family to the house	Use remote access to NHS and essential services	Vary daily commute and use less public transport	Home working
0 – 69	Yes	Yes	Yes	Advised against	Advised against	Advised	Advised	Advised
70+	Yes	Yes	Yes	Strongly advised against	Strongly advised against	Strongly advised	Strongly advised	Strongly advised
Any age Member of vulnerable group with an underlying health condition¹	Yes	Yes	Yes	Strongly advised against	Strongly advised against	Strongly advised	Strongly advised	Strongly advised
Pregnant women	Yes	Yes	Yes	Strongly advised against	Strongly advised against	Strongly advised	Strongly advised	Strongly advised
Those with serious underlying health conditions	As above, but further bespoke guidance will be provided by your GP next week							

DIABETES UK INFORMATION

More information on diabetes and Covid-19 and diabetes can be found on the Diabetes UK website at: https://www.diabetes.org.uk/about_us/news/coronavirus

BE PREPARED

So that you have the equipment to cope during either self-isolation or illness please ensure you have adequate supplies of the following at home:

- Insulin
- Blood glucose monitoring and/or Libre
- Blood ketone sticks and a blood ketone monitor (we would also suggest requesting 50 urine ketones tests as back-up in case the blood ketones strips run low during a period of illness)

Due to pressure on services, we suggest you submit your repeat prescription request at least 1 week before the items will be needed. If you are on an insulin pump please ensure you have adequate consumables and a back-up supply of both long and short acting insulin and needles.

SICK DAY RULES

Sick day rules can be found at: http://trend-uk.org/wp-content/uploads/2018/03/A5_T1Illness_TREND_FINAL.pdf and the content has been pasted below so you have easy access.

CONTACTING THE NORTH DERBYSHIRE DIABETES TEAM

If you are unwell and need support with increased insulin requirements during illness or diabetes sick day rules, please call us:

- **The contact number for urgent advice is 07880 147785 8am-5pm Monday to Friday. This is for use during the Covid 19 pandemic.**
- **Our Diabetes centre line is available Monday -Friday 8.30am-5pm for advice/routine queries on 01246 512113.**
- **You can also contact the hospital switchboard on 01246 277271 and ask them to bleep the diabetes nurses on bleep 781 or 013 for urgent advice.**

If you have a routine clinic appointment due soon this may be cancelled or you may be offered a telephone consultation instead. This is due to the current demands on the NHS. We will contact you regarding your appointment in due course. Please contact us if you need any support/guidance.

copy of Trend sick day rules follow

➤ HOW DOES ILLNESS AFFECT YOUR BLOOD GLUCOSE LEVELS?

When you are ill, especially if you have an infection and high temperature, your body is less responsive to the insulin you inject. Insulin is a hormone which controls your blood glucose level. Being unwell therefore usually makes your blood glucose levels rise, even if you are eating less than usual.

You can also produce ketones when you are unwell. These are produced when the body is unable to use glucose for energy because your insulin injections are not working properly. If ketones accumulate in the blood, this can quickly lead to a serious condition called diabetic ketoacidosis (DKA).



It is possible to manage your diabetes effectively during illness, keep your blood glucose levels in or near to target, and prevent the development of ketones by following the simple advice given in this leaflet

> LOOKING AFTER YOURSELF

- ✓ **Rest:** avoid strenuous exercise
- ✓ **Prevent dehydration** by drinking plenty of sugar-free fluids. Sip gently throughout the day (at least 2 ½ to 3 ½ litres or 4 to 6 pints in 24 hours)
- ✓ **Treat symptoms** such as a high temperature or a cough with basic over-the-counter medicines such as painkillers and cough syrups. These do not have to be sugar-free varieties as they contain very little glucose and are taken in small quantities. Ask your pharmacist for advice
- ✓ **See your GP** if you think you have an infection as you may need antibiotics
- ✓ **Monitor** your blood glucose at least 4 times daily while you are unwell. If your blood glucose is above 11 mmol/L, test your blood for ketones. If you do not have a meter that can do this, you should be able to get one from your diabetes team
- ✓ **Understanding your blood ketone levels:**
 - Less than 0.6 mmol/L is normal
 - 0.6 to 1.5 mmol/L means you may be at risk of developing DKA so test again after 2 hours
 - 1.6 to 2.9 mmol/L means you are at risk of DKA and should contact your diabetes team or GP as soon as possible
 - 3 mmol/L or higher means you have a very high risk of DKA and should get emergency help as soon as possible

If you are only able to do a urine ketone test, a result of 2+ means you are likely to develop DKA

You may need to adjust your insulin dose while you are ill, especially if your blood glucose level is high and you develop ketones

Seek urgent medical help if your readings remain higher than usual, or you feel very unwell and you are not sure what to do

> MANAGING YOUR INSULIN DOSE WHEN YOUR BLOOD KETONES ARE LESS THAN 1.5 MMOL/L

Blood glucose more than 11 mmol/L and either no ketones or blood ketones less than 1.5 mmol/L (negative or trace of urine ketones)

Sip sugar-free fluids, at least 100 ml/hr. Eat as normal if possible. If not, see meal replacement suggestions (page 6). **You need food containing carbohydrate (carbs), insulin and fluids to avoid dehydration and prevent diabetic ketoacidosis**

Test blood glucose and blood ketones **every 4 to 6 hours** including during the night

Aim to take your usual insulin dose. However, if your blood glucose is above 11 mmol/L, take additional insulin as below

Blood glucose	Insulin dose
11 – 17 mmol/L	Add 2 extra units to each dose
17 – 22 mmol/L	Add 4 extra units to each dose
More than 22 mmol/L	Add 6 extra units to each dose

Call your GP or nurse if your blood glucose still remains higher than normal

⚠ If you start vomiting, are unable to keep fluids down, or are unable to control your blood glucose or ketone levels, you must seek urgent medical advice. **DON'T STOP TAKING YOUR INSULIN EVEN IF YOU ARE UNABLE TO EAT**

> MANAGING YOUR INSULIN DOSE WHEN YOUR BLOOD KETONES ARE 1.5 MMOL/L OR HIGHER

Blood glucose more than 11 mmol/L and blood ketones 1.5 mmol/L or higher (+ or more of urine ketones)

Sip sugar-free fluids, at least 100 ml/hr. Eat as normal if possible. If not, see meal replacement suggestions (page 6). **You need food containing carbohydrate (carbs), insulin and fluids to avoid dehydration and prevent diabetic ketoacidosis**

1.5 to 3 mmol/L on blood ketone meter (+ to ++ urine ketones)

More than 3 mmol/L on blood ketone meter (+++ to ++++ urine ketones)

Give an additional 10% of your TTD as rapid-acting or mixed insulin every 2 hours	Total daily insulin dose: TDD	Give an additional 20% of your TDD as rapid-acting or mixed insulin every 2 hours
1 unit	Up to 14 units	2 units
2 units	15 to 24 units	4 units
3 units	25 to 34 units	6 units
4 units	35 to 44 units	8 units
5 units	45 to 54 units	10 units

If you take more than 54 units or if you are unsure how to alter your dose, contact your specialist team or GP

Test blood glucose and blood ketones **every 2 hours** including during the night

Blood glucose **more than 11 mmol/L and ketones present?**

✔ YES - REPEAT PROCESS

✘ NO

As your illness resolves, adjust your insulin dose back to normal

⚠ If you start vomiting, are unable to keep fluids down, or are unable to control your blood glucose or ketone levels, you must seek urgent medical advice. DON'T STOP TAKING YOUR INSULIN EVEN IF YOU ARE UNABLE TO EAT

> WHAT CAN YOU EAT AND DRINK?

Your body uses a lot of energy when you are unwell, even if you are resting. Try to eat as normal but if you cannot manage your usual meals, replace these with light and easily digested foods such as soups and milky puddings. See the table below for a list of alternative food options. **Each portion is equal to approximately 10 gram carbohydrate** (e.g. an egg-size potato, a small slice of bread or a tablespoon of cooked rice or pasta):



Fruit juice
100 ml



Milk
200 ml



Plain vanilla ice-cream
1 large scoop



Tomato soup
200 gram (half a large tin)



Low fat yoghurt
150 gram (1 small pot)



2 Rich tea or malted milk biscuits

➤ WHEN TO SEEK HELP

Get to hospital urgently if any of these apply to you:

- ⚠ If you are pregnant and have ketones
- ⚠ If you vomit for the duration of 2 meals (i.e. 4 hours) and are unable to keep fluids down
- ⚠ If you have persistent ketones despite increasing your insulin
- ⚠ If you become drowsy and/or breathless
- ⚠ If you have acute abdominal pain
- ⚠ If your condition worsens despite following the advice given in this leaflet

If you need to go to hospital, remember to take a list of all your medications and insulin safety card with you

⚠ Even if you are not eating, never stop your insulin

> BEING PREPARED:

- ❗ Make sure you always have plenty of insulin and blood glucose and ketone monitoring equipment available
- ❗ Make sure your ketone strips are still in date if you have not used them for a while
- ❗ Keep a few simple medicines such as painkillers and cough syrup in a safe place in the house
- ❗ Discuss how to manage your diabetes when you are unwell with your doctor or nurse so you know what to do if you become ill and know when to seek help



> USEFUL RESOURCES:

TREND-UK website): www.trend-uk.org

Diabetes UK: www.diabetes.org.uk

Diabetes UK: ☎ 0345 123 2399



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