



# Community nursing teams



## 1 The Person

Listen to the person: they live with their diabetes 365 days a year.

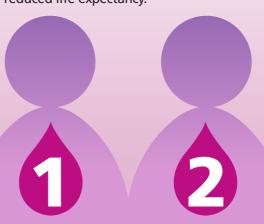
- Z Don't blame people for their diabetes: ethnicity and family history are important factors for type 2 and type 1 is an autoimmune condition.
- Z Diabetes is a challenging condition which can impact wellbeing.
- You may be the only health care professional involved, your input could be key to ensuring effective self-care.



# 2 Know the difference between the types of diabetes

People with type 1 diabetes need insulin every day of life: even in the last phase of life to prevent diabetic ketoacidosis (DKA).

- z People with type 2 diabetes may be on diet alone, diet plus tablets, injectable therapies, insulin or a combination of these.
- You are more likely to develop type 2 if you have a parent or sibling with the condition.
- z It is 2 to 4 times more common in South Asian, African-Caribbean and Black African groups.
- z Serious mental illness (SMI) and learning disability (LD) are linked to high rates of type 2 diabetes and reduced life expectancy.
- z A high prevalence of people with SMI are unaware of their diabetes: screen for undiagnosed diabetes.
- z People with diabetes have an increased risk of dementia and those with dementia an increased risk of diabetes.
- z Up to one million people in the UK are living with undiagnosed type 2 diabetes.



### 3 Blood glucose and ketone monitoring

Blood glucose levels should be checked more frequently if the person is unwell.

- Z Blood glucose checks should be pre-meal where possible.
- May not be needed if on diet or metformin only with optimised blood glucose.
- Z Blood glucose targets should be tailored to the needs of the individual: see the care plan for individual targets.
- Z Check ketones (blood or urine) in patients with type 1 diabetes regardless of blood glucose if unwell.
- Z Check ketones in patients if on an SGLT2 inhibitor (Cana-/Dapa-/Empa-gliflozin) if unwell.
- If unwell check blood glucose more often and encourage sugar-free fluids to prevent dehydration and acute kidney injury.
- z Review blood glucose and take action quickly via GP or diabetes care provider if blood glucose is less than 4mmol/l or in double figures.

# 4 Hypoglycaemia – low blood glucose below 4mmol/l (4 is the floor)

Low blood glucose can kill and must be treated immediately.

Z Know your hypoglycaemia treatment pathway:

#### Patients conscious and able to swallow safely:

**Step 1:** Give fast acting glucose e.g. glucogel or a small can/carton of non-diet sugary drink.

Step 2: Give a starchy snack: e.g. 2 digestive biscuits.

#### If unable to swallow safely or unconscious:

Place in recovery position and call 999.

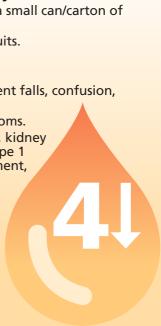
**Symptoms:** sweating, pale, shaky drowsy, frequent falls, confusion, aggression, seizures, loss of consciousness.

**Z** Some signs can be mistaken for psychiatric symptoms.

**Risk factors:** frailty, reduced appetite, dementia, kidney or liver disease, haemodialysis, terminal illness, type 1 diabetes/insulin treatment, sulphonylureas treatment, alcohol consumption.

Z Hypoglycaemia can be caused by insulin and medication errors. Always check right medication, insulin, time and dose.

- **z** Ensure hypo treatment is always available and within reach of the person.
- If your patient is having unexplained, recurrent or severe hypoglycaemic episodes: request an urgent diabetes review to prevent reoccurrence.



# Hyperglycaemia (high blood glucose consistently in double figures)

High blood glucose can kill if left untreated, especially in type 1 diabetes.

- z Symptoms: thirst, polyuria, blurred vision, drowsy, infections, weight loss, incontinence.
- Z Causes: infection, other illnesses, missed medication or insulin, surgery, undiagnosed diabetes.
- Z Risk factors: steroids (including dexamethasone) and anti-psychotics can increase glucose levels even without diabetes. Always screen for diabetes or check blood glucose.
- Z Ketones: check ketones (blood or urine) in people with type 1 diabetes regardless of blood glucose if unwell.
- z High blood glucose increases the risk of infection and hospital admission.
- Z Urgently request diabetes review and management plan if blood glucose is high for more than 24 hours.
- Z Check blood glucose more often and encourage sugar-free fluids to prevent dehydration and acute kidney injury.
- Z Blood glucose targets should be tailored to the needs of the individual.
- Ensure you and your patients know about sick day rules for type 1 and type 2 diabetes.
- **z** A long duration of high blood glucose can cause complications of the heart, kidneys, eyes, nerves, feet and brain.



## 6 Insulin and medication safety

Insulin is a high-risk drug.

- z Ensure the right person, right insulin, right dose, right time, right device every time.
- z Know common insulin types, ensure they are prescribed and injected correctly.
- z Be aware that insulin names are often similar and can be confused such as "Humalog, Humalog mix 25 etc.
- z Stopping insulin or diabetes medication without review can result in harm.
- z Insulin can remain at room temperature for up to one month but will become damaged if exposed to frozen or very hot temperatures.
- z Both overdose and omission of Insulin can be used to self-harm and even commit suicide: include in care and risk plans.
  - Know common diabetes medications and side effects: ensure they are prescribed and taken correctly.
- z If unwell, SGLT2 inhibitors (Cana-/Dapa-/Empa gliflozin) should be stopped immediately and metformin dose reviewed.
- z Be familiar with local prescribing quidelines.
- z Consider whether the person's mental state is affecting their ability to self-medicate.
- z Alert the GP, pharmacist or diabetes care provider without delay if diabetes medication is stopped or refused.
- z Seek urgent advice from GP or diabetes care provider if blood glucose is less than 4mmol/l or in double figures.

## **7) Feet** (See Touch the Toes Test)

All people with diabetes should have regular foot examinations (at least annually).

Z A foot ulcer is a medical emergency requiring urgent same day referral for specialist assessment.

- Z Do a "touch the toes" test for reduced sensation.
- Refer to the GP, podiatrist or specialist team if there is a problem.
- Z Advise people to check their feet, be aware of sensation loss, look for changes in the shape of their feet and wear shoes that fit properly.



## 8 Eating with diabetes

If the individual is unwell and unable to eat; ensure they take sugar free fluids through the day.

- z There is no special diet for people with diabetes.
- Z Meal plans should be individualised: this will depend on the person's type of diabetes, age, weight, gender, ethnicity and economic circumstance.
- z All carbohydrate foods and drinks break down into glucose, impacting blood glucose.
- z People living with type 1 diabetes should have access to specialist support with carbohydrate counting: matching insulin doses to carbohydrate.
- z Dietary restriction is inappropriate for elderly frail people.
- z The priority is to ensure adequate nutrition and quality of life.
- z Nutrition and hydration are essential for wound and ulcer healing.
- z Be mindful that people may use food to manage distress and to express love.



# Referring to the GP, diabetes care provider, mental health or podiatry team

People with type 1 diabetes should have access to specialist support.

Your patient should have access to specialist support if needed or requested.

Z Alert diabetes care provider if blood glucose is very high or low.

Z A foot ulcer is a medical emergency requiring urgent same day referral for specialist assessment.

Z Contact GP, podiatrist, or specialist team without delay for new foot symptoms, redness, swelling, hot, pain, infection or any foot wound.

Liaise with GP or diabetes care provider if the person's mental state is affecting their ability to self-medicate.



# Ensure the person has access to diabetes information, diabetes care and review

- People on anti-psychotic medication or steroids (including dexamethasone) should be screened for diabetes.
- **z** Screen everyone with SMI and LD for undiagnosed diabetes.
- z Everyone with diabetes should have annual blood tests, blood pressure, eye and foot checks.

z Everyone with diabetes should have access to information/training about their diabetes, dietetic advice, specialist advice (if needed), smoking cessation advise and

vaccination programmes.

z Non-attendance of annual checks can be a sign of self-neglect.

z Be aware of Sick Day Rules for type 1 and type 2 diabetes, this is information about what to do when the person is unwell and blood glucose is high.

z Some people have achieved partial or full remission of their type 2 diabetes, for more information visit: www.knowdiabetes.org.uk www.diabetes.org.uk



## Touch the toes test

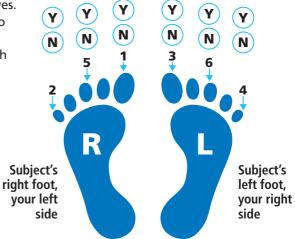
#### Does your patient with diabetes have reduced sensation?

Ask them to close their eyes.

- Z Tell them you are going to touch their toes.
- Z Ask them to tell you which foot you touched, left or right.
- Touch toe number 1 for two seconds gently.
  Do not repeat.
  Continue until you

have assessed 6 toes as marked on the diagram.

If they cannot feel 2 or more toes they have reduced sensation for their foot check.



(The Ipswich Touch Test reproduced with permission from Diabetes UK)

All people with diabetes must have a foot check within 24 hours of admission to hospital or care home.

Check feet daily for any new problems while assisting with personal care.

#### **CHECK**

Remove socks/dressings/bandages.

- Is there an active foot problem ulcer, gangrene, black necrotic tissue or toes?
- z Is there reduced sensation? Follow 'Touch the toes test'.
- Z Document your foot check in the patient's notes and escalate to the GP or local podiatry team if there is a problem.

#### **PROTECT**

- z Apply new dressings/bandages (using patient's care plan).
- z Protect heels with heel off-loaders for bed-bound patients.
- Z Offload heels for those with any active foot ulceration.
- Z Check feet daily for any new problems while assisting with personal care.

#### **REFER**

- If your patient has *reduced sensation* they may be at risk of a diabetic foot ulcer.
- Z Ask the GP for a full foot examination, they may need to be referred to a diabetes specialist podiatrist, foot protection team, or a diabetes foot clinic.









See www.knowdiabetes.org.uk

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