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PAN MERSEY AREA PRESCRIBING COMMITTEE
PRESCRIBING POLICY STATEMENT
REF: PS176 FINAL
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Pan Mersey
Area Prescribing Committee

FIRST APC BOARD DATE: 12 JUN 2013 LAST APC BOARD DATE: 28 FEB 2018

BLOOD GLUCOSE TESTING STRIPS

G R E E N

The Pan Mersey Area Prescribing Committee recommends the prescribing of Blood Glucose Testing Strips in accordance with the following guidance.

Type 1 Diabetes in adults (1) NICE recommends routine self-monitoring of blood glucose levels for all adults with type 1 diabetes at least 4 times a day, including before each meal and before bed. This may be increased up to 10 times a day if any of the following apply:

- Desired target HbA1c level is not achieved
- Frequency of hypoglycaemic episodes increases
- There is a legal requirement to do so e.g. driving in line with DVLA
- During periods of illness
- Before, during or after sport
- When planning pregnancy, during pregnancy and while breastfeeding
- If needed for another reason e.g. impaired hypoglycaemia awareness, high risk activities, occupation or travel

<u>Type 2 Diabetes in adults</u>⁽²⁾ NICE recommends not routinely offering self-monitoring of blood glucose levels for all adults with type 2 diabetes unless any of the following apply:

- The person is on insulin
- Evidence of hypoglycaemic episodes
- The person is on oral medication that may increase risk of hypoglycaemia while driving or operating machinery
- Pregnant or planning pregnancy

Take into account DVLA guidance on fitness to drive into account (see link below).

Consider short-term self-monitoring:

- When starting corticosteroid treatment
- To confirm suspected hypoglycaemia

Type 1 and Type 2 Diabetes in children and young people⁽³⁾ NICE recommends monitoring of blood glucose levels in type 1 diabetes at least 5 times a day. More frequent monitoring may be needed e.g. with physical activity, intercurrent illness. NICE makes no recommendation on frequency of monitoring for children and young people with type 2 diabetes.

<u>Ketone monitoring</u>^(1,3) NICE recommends considering monitoring of ketones in children, young people and adults as part of "sick-day rules" for managing type 1 diabetes during intercurrent illness or episodes of hyperglycaemia.

Meters should meet current ISO standards. See Pan Mersey <u>Blood Glucose Meters and Testing Strips</u> guideline for recommended meters.

Driver and Vehicle Licensing Agency (DVLA) guidance At a glance guide to the current medical standards of fitness to drive

References

- 1) NICE NG 17, Type 1 diabetes in adults, Aug. 2015
- 2) NICE NG28, Type 2 diabetes in adults, Dec. 2015
- 3) NICE NG18, Diabetes (type 1 and type 2) in children and young people, Aug. 2015

Note: Patients who are not eligible for treatment under this statement may be considered on an individual basis where their GP or consultant believes exceptional circumstances exist that warrant deviation from the rule of this policy. In this situation, follow locally defined processes.

Education and Lifestyle interventions

BLOOD GLUCOSE TESTING STRIPS

Blood glucose testing should only be initiated if the need/purpose is clear & agreed with the patient. Patient should receive education relevant to appropriate testing, understanding when to test & what to do with the result. ALL PATIENT SELF-MONITORING SHOULD BE ENCOURAGED TO USE MINIMUM NUMBER OF TESTS REQUIRED TO IMPROVE CONTROL Typical weekly strip usage Newly diagnosed type 2 patient + Diet control only Self- monitoring may be required at diagnosis e.g. assessing effect of different foods. 1 – 2 strips / week if self-Self-monitoring not routinely recommended except during pregnancy or planning monitoring needed pregnancy, or short-term when starting corticosteroid treatment. Healthcare professional should advise patient when self-monitoring becomes necessary. Recommended regime(s): (A) Type 2 patient prescribed oral therapy Self-monitoring not routinely recommended except where evidence of hypoglycaemic 1 - 7 strips / week if selfepisodes, where oral medication +/- GLP1 analogue may increase risk of monitoring needed hypoglycaemia while driving or operating machinery or pregnant or planning pregnancy. If self-monitoring necessary the healthcare professional should tailor monitoring regime to individual patient need depending on diabetes control. Special focus needed on testing to prevent hypoglycaemia especially in sulphonylurea therapy Recommended regime(s): (A)(B)(C) Type 2 patient prescribed insulin Self-monitoring is recommended in all cases with daily testing on initiation of insulin. 4 – 8 strips / week Once a patient is stable, frequency of testing can be reduced to profiles on one or two days a week or daily at varying times (week profile) Stable patients are those whose blood glucose varies little from day to day & who are not having intensive changes of treatment. Recommended regime(s): (B)(D)(E) Type 1 patients prescribed insulin Self-monitoring is recommended in all cases. 28 strips / week Self-monitoring should be used to adjust insulin dose before meals where this is appropriate. Self-monitoring should be at least 4 times a day, including before each meal and before Recommended regime(s): (F) Type 1 or 2 patient prescribed insulin - Intensive monitoring Intensive monitoring required in patients, for example: Up to 70 strips / week - Desired target HbA1c level is not achieved - Frequency of hypoglycaemic episodes increases - There is a legal requirement to do so e.g. driving in line with DVLA - During periods of illness - Before, during or after sport - When planning pregnancy, during pregnancy and while breastfeeding - If needed for another reason e.g. impaired hypoglycaemia awareness, high risk activities, occupation or travel. - Patients on carbohydrate counting with dose adjustment or other intensive insulin programme, insulin pump. Self-monitoring up to 10 times a day Recommended regime(s): (G) **Blood Ketone Testing** Examples of typical self-monitoring regimes Increase testing Frequency Appropriate⁽¹⁾:- Type 1 diabetes Regime A One or two tests a week <u>during:</u> where blood glucose monitoring Regime B Once daily at various times (week Pregnancy. profile) indicates high reading and/or acute Times of illness. illness. Women with type 1 diabetes Changes in Therapy. Regime C Two tests daily, twice a week planning pregnancy, or pregnant, Change in Routine. Regime D Four tests at different times on one should test for ketonaemia if Times of Poor Control. day (day profile) When risk of Hypoglycaemia. hyperglycaemic/ unwell. Cystic Fibrosis Related Diabetes Remember: UK DVLA Regime E Day profile twice a week quidance states that all (CFRD) controlled by insulin:-Regime F Test before meals and at bedtime Patients often have variable glucose people who are insulin each day treated are advised to test Regime G Test before meals, snacks, levels which can change rapidly and are more prone to hypoglycaemia. It their blood glucose before exercise, driving and bed up to 10 times a day is imperative that patients monitor driving then every 2 hours Blood glucose monitoring targets during long journeys. blood glucose levels intensively Fasting 5 – 7 mmol/L on waking. At other times of the day pre-prandial 4-7 mmol/L, post including post meals. Blood ketone testing not required in CFRD. prandial 5 - 9 mmol/L at least 90 minutes after eating (timing may be different in pregnancy) Self-monitoring does not replace regular HbA1c testing, which remains the gold-standard test, and should only be used

The recommended number of testing strips in the above table is only a GUIDE, some patients may require more or less depending on the individual.

in conjunction with appropriate therapy as part of integrated self-care.