Placename CCG

Policies for the Commissioning of Healthcare

Policy for the Supply and Funding of Insulin Pumps for Patients with Diabetes Mellitus

	This document is part of a suite of policies that the CCG uses to drive its commissioning of healthcare. Each policy in that suite is a separate public document in its own right, but will be applied with reference to other policies in that suite.
1	Policy Criteria
1.1	Insulin pump therapy must be must be initiated and continually supplied / prescribed by specialist clinicians (Diabetologists, Paediatricians with a special interest in diabetes, Diabetes Specialist Nurses) in limited and controlled settings where patients are attending for type 1 diabetes mellitus care, as part of strategies to optimise a patient's HbA1c levels and reduce the frequency of hypoglycaemic episodes
	Insulin Pumps – adults and children 12 years and older
1.2	The CCG will commission insulin pump therapy in accordance with the criteria specified in NICE TA151 for adults and children 12 years and older, which states:
	Continuous subcutaneous insulin infusion (CSII or 'insulin pump') therapy is recommended as a treatment option for adults and children 12 years and older with type 1 diabetes mellitus provided that:
1.2.1	 Attempts to achieve target haemoglobin A1c (HbA1c) levels with multiple daily injections (MDIs) result in the person experiencing disabling hypoglycaemia. For the purpose of this guidance, disabling hypoglycaemia is defined as the repeated and unpredictable occurrence of hypoglycaemia that result in persistent anxiety about recurrence and is associated with a significant adverse effect on quality of life; OR
1.2.2	HbA1c levels have remained high (that is, at 8.5% [69 mmol/mol] or above) on MDI therapy (including, if appropriate, the use of long-acting insulin analogues) despite a high level of care
	Insulin Pumps – Children under 12 years
1.3	The CCG will commission insulin pump therapy for children under 12 years when EITHER:
1.3.1	 ALL OF THE FOLLOWING CRITERIA ARE MET: provision of an insulin pump concurs with the preference of the patient or parent(s) / guardian(s) and takes into account any preference that the patient may be able to express, AND
1.3.2	 multi-disciplinary teams planning to commence a patient on insulin pump therapy must ensure that the disadvantages of therapy have

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	ent has a definitive diagnosis of needle phobia. The diagnosis e been made by a specialist with expertise in behavioural and all therapeutic interventions to manage the phobia have
	ND nt or parent(s) / guardian(s) must demonstrate a willingness to all necessary training.
interpret to the patient blood glu received	this data to competently adjust insulin doses, AND nt or parent(s) / guardian(s) must have performed frequent cose self-monitoring (ONLY if the patient has previously insulin therapy) at least 5 times daily (as described in NICE
parent(s) insulin pu the patier appropria (level 3 c.	cussed with the patient or guardian(s) and the patient or / guardian(s) have expressed a continued wish to initiate imp therapy, AND into r parent(s) / guardian(s) must have demonstrated ate levels of competence to perform carbohydrate counting arbohydrate counting e.g. DAFNE regimen), blood glucose in g and the patient or parent(s) / guardian(s) must be able to

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2.2	Type 1 diabetes mellitus is a chronic metabolic disorder caused by the destruction of insulin-producing cells in the pancreas that leads to an absolute lack of the hormone and subsequent loss of blood glucose control. Treatment of type 1 diabetes mellitus is by insulin therapy to achieve blood glucose control. Many patients can achieve blood glucose control through multiple daily injections of insulin (MDI) using a mixture of rapid-acting, short-acting, intermediate-acting and long-acting insulins. For those patients with type 1 diabetes mellitus who have difficulty controlling their blood glucose through MDI, insulin pump therapy provides an alternative treatment option.
	Type 2 diabetes mellitus is a chronic metabolic condition characterised by insulin resistance (that is, the body's inability to effectively use insulin) and insufficient pancreatic insulin production, resulting in high blood glucose levels (hyperglycaemia). Patients with type 2 diabetes mellitus may initially be managed with lifestyle and dietary changes alone, although due to the progressive nature of the disease many patients will require interventions with medicines including insulin as glycaemic control deteriorates.
	Insulin pumps are programmable devices with refillable reservoirs of short-acting insulin which deliver (pump) insulin subcutaneously through a sited cannula to provide a continuous infusion of insulin. The pump can be programmed to deliver a basal rate of insulin throughout the day, with higher infusion rates triggered by pushing a button at meal times. This may be as a bolus or delivered over a period of time. The pump can also deliver different basal rates of insulin at different times of the day and night.
2.3	The scope of this policy includes requests for insulin pumps for adults and children of any age with a confirmed diagnosis of type 1 or type 2 diabetes mellitus.
2.4	The scope of this policy does not include the provision of insulin pumps for adults and children who do not have a confirmed diagnosis of diabetes mellitus or any other aspects of the management of type 1 and type 2 diabetes mellitus.
2.5	 The CCG recognises that a patient may have certain features, such as: having type 1 or type 2 diabetes mellitus; wishing to have a service provided for type 1 or type 2 diabetes mellitus; being advised that they are clinically suitable for an insulin pump; and being distressed by having type 1 or type 2 diabetes mellitus. This alone is not sufficient to meet the criteria specified in this commissioning policy. Such features place the patient within the group to whom this policy applies and do not make them exceptions to it.
2.6	The NICE technology appraisal guidance 151 does not recommend insulin pump therapy for patients with type 2 diabetes as a cost-effective use of NHS resource. On this basis the CCG will not routinely commission insulin pump therapy for patients with type 2 diabetes mellitus.

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2.7	Terms and abbreviations used in this policy are explained and defined in Appendix 1. Throughout this policy any term is used with the meaning described in that appendix.
2.8	This policy references the guidance of The National Institute for Health and Care Excellence (NICE), in particularly TA151 (published in July 2008), which is mandatory, and NG17 and NG18 (both published in August 2015), which are not mandatory, and relate to adults and to children & young people respectively.
3	Appropriate Healthcare
3.1	The purpose of an insulin pump device is to reduce the variability of blood
3.1	glucose levels in patients unable to achieve satisfactory control using MDI insulin. Improved control of blood glucose levels reduces the likelihood of short-term complications such as episodes of low blood glucose (hypoglycaemia) or high glucose (hyperglycaemia) leading to life-threatening emergencies such as diabetic ketoacidosis. The long-term microvascular and macrovascular complications of chronically elevated blood glucose levels include retinopathy, nephropathy, neuropathy and blindness, renal failure and foot ulceration respectively.
3.2	Due to the effects of insulin treatment and diabetic complications on a
0.2	patient's quality of life, the CCG regards the provision of insulin pumps in accordance with the Principles of Appropriateness. The policy does not rely on the Principle of Appropriateness. Nevertheless, if a patient is considered exceptional in relation to the principles on which the policy does rely, the CCG may consider the principle of appropriateness in the particular circumstances of the patient in question before confirming a decision to provide funding.
4	Effective Healthcare
4.1	The CCG does not call into question the effectiveness of insulin pump therapy in improving blood glucose control or the resultant prevention/delay in onset of diabetic complications afforded by improved blood glucose management. This policy does not therefore rely on the Principle of Effectiveness. Nevertheless, if a patient is considered exceptional in relation to the principles on which the policy does rely, the CCG may consider whether the purpose of the treatment is likely to be achieved in this patient without undue adverse effects before confirming a decision to provide funding.
5	Cost-Effectiveness
5.1	This policy relies on the Principle of Cost-Effectiveness. The CCG recognises
J.1	the provision of insulin pump therapy to improve blood glucose control would not represent a cost-effective use of NHS resources in the following patient cohorts (based on the recommendations of NICE TA151):
	those patients that can achieve satisfactory blood glucose control (defined as agreed targets made by the specialist clinician in conjunction with the patient) by administering multiple daily injections of insulin AND

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2. all patients with type 2 diabetes mellitus

NICE TA151 defines cost-effective uses of insulin pump therapy in adults and children 12 years and older reliant on:

- raised baseline HbA1c (that is, at 8.5% [69 mmol/mol] or above) on MDI therapy (including, if appropriate, the use of long-acting insulin analogues) despite a high level of care prior to commencing insulin pump therapy or
- increased episodes of disabling hypoglycaemia in patients attempting to achieve their target HbA1c levels with MDI therapy

For the use of insulin pumps in place of MDI in children under 12 years, the CCG considers that the relative costs, expected clinical benefits and limitations of insulin pump therapy may vary from patient to patient.

There is insufficient evidence to define cost-effective use of insulin pumps in children under 12 years using thresholds for baseline HbA1c or frequency of hypoglycaemic episodes. The strongest indicator of improved clinical outcomes in patients under 12 years relates to competence in the use of the pump device and treatment compliance.

6 Ethics

The CCG does not call into question the ethics of insulin pump therapy and therefore this policy does not rely on the Principle of Ethics. Nevertheless, if a patient is considered exceptional in relation to the principles on which the policy does rely, the CCG may consider whether the treatment is likely to raise ethical concerns in this patient before confirming a decision to provide funding.

7 Affordability

7.1 The CCG does not call into question the affordability of insulin pump therapy and therefore this policy does not rely on the Principle of Affordability. Nevertheless, if a patient is considered exceptional in relation to the principles on which the policy does rely, the CCG may consider whether the treatment is likely to be affordable in this patient before confirming a decision to provide funding.

Exceptions

8

- 8.1 The CCG will consider exceptions to this policy in accordance with the Policy for Considering Applications for Exceptionality to Commissioning Policies.
- In the event of inconsistency, this policy will take precedence over any non-mandatory NICE guidance in driving decisions of this CCG. A circumstance in which a patient satisfies NICE guidance but does not satisfy the criteria in this policy does not amount to exceptionality.

9 Force

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9.1	This policy remains in force until it is superseded by a revised policy or by mandatory NICE guidance relating to this intervention, or to alternative treatments for the same condition.
9.2	 In the event of NICE guidance referenced in this policy being superseded by new NICE guidance, then: If the new NICE guidance has mandatory status, then that NICE guidance will supersede this policy with effect from the date on which it becomes mandatory. If the new NICE guidance does not have mandatory status, then the CCG will aspire to review and update this policy accordingly. However, until the CCG adopts a revised policy, this policy will remain in force and any references in it to NICE guidance will remain valid as far as the decisions of this CCG are concerned.
10	 References National Institute for Health and Clinical Excellence (2008) Continuous subcutaneous insulin infusion for the treatment of diabetes mellitus. Technology appraisal guideline 151 (TA151) accessed at https://www.nice.org.uk/guidance/ta151 National Institute for Health and Care Excellence (2016) Type 1 diabetes in adults: diagnosis and management. NICE guideline (NG17) accessed at https://www.nice.org.uk/guidance/ng17 National Institute for Health and Care Excellence (2016) Diabetes (type 1 and type 2) in children and young people: diagnosis and management. NICE guideline (NG18) accessed at https://www.nice.org.uk/guidance/ng18
11	Appendix 4 Terms and abbreviations
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Children – To align with TA151 and for the purposes of this policy all people under the age of 18 are referred to as children.

Young people - A person between the ages of 12 and 18 years. (However, the separate definitions for children and young people are not stated in NG18 or TA151).

HbA1c - Glycated haemoglobin measured using methods that have been calibrated according to International Federation of Clinical Chemistry (IFCC) standardisation.

Disabling hypoglycaemia – defined by TA 151 as the repeated and unpredictable occurrence of hypoglycaemia that results in persistent anxiety about recurrence and is associated with a significant adverse effect on quality of life.

DKA - Diabetic Ketoacidosis.

EQ-5D – Validated Quality of Life measure developed by EuroQol and referenced by NICE.

DQoL – Diabetes Quality of Life measure. A validated tool designed by the Diabetes Control and Complications Research Group.

Date of adoption Date for review

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