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NHS Halton Clinical Commissioning Group NHS Liverpool Clinical Commissioning Group NHS St Helens Clinical Commissioning Group NHS South Sefton Clinical Commissioning Group NHS Southport and Formby Clinical Commissioning Group NHS Warrington Clinical Commissioning Group

Continuous Glucose Monitors (CGM)

You can see your blood glucose level every few minutes with a continuous glucose monitor (CGM). It lets you see patterns in your levels and warns you if your glucose is too high or low.

A CGM is made up of:

- a sensor a small device you attach to your abdomen it senses how much glucose is in the fluid under your skin
- a transmitter attached to the sensor it sends results to a receiver
- a receiver a small box that displays your blood glucose level you can carry this on your belt or in your bag

A sensor usually lasts for 14 days. Some are implanted and worn for 6 months.

The National Institute for Health and Care Excellence (NICE) states there isn't enough evidence to show CGMs are cost-effective enough for everyone with type 1 diabetes.

Criteria from the current 2014/15 Cheshire and Merseyside commissioning policy		Proposed criteria for the revised, future policy		High level summary of changes
Intervention	Continuous Glucose Monitoring Systems for Continuous Glucose Monitoring in Type 1 Diabetes Mellitus	Intervent ion	Continuous Glucose Monitoring	
Policy Statement	Not Routinely Commissioned	Policy Statement	Restricted	
Minimum eligibility criteria	Not routinely commissioned and only considered if ALL of the following criteria are met; Type I diabetes. AND Currently on a sensor augmented continuous subcutaneous insulin pump in strict accordance with NICE appraisal TAG 151. AND HbA1c which is equal to or greater than 69 (8.5%) mmol/OR experiencing severe hypoglycaemic attacks which require intervention by a carer. AND Selected to use an approved sensor augmented pump system of high specification with a low Mean Absolute Relative Difference (MARD) value. AND Managed by a recognised centre of excellence in diabetes (currently using a minimum of 20 continuous infusion pumps per annum). AND	Minimum eligibility criteria	Adults with type 1 diabetes CGM is not routinely commissioned. CGM will only be considered for patients when the following criteria are met: Currently using a continuous subcutaneous insulin pump of high specification in strict accordance with NICE appraisal TAG 151 and the local insulin pump policy. AND Managed by a recognised adult specialist centre of expertise. This will have a multidisciplinary team comprising a trained diabetes nurse specialist, physician and dietician with all patients trained to count carbohydrates. AND Willing to commit to using CGM at least 70% of the time and to calibrate it as needed. PLUS HbA1c ≥75 mmol/mol (9%) that persists despite blood glucose testing at least 10 times a day** OR Experiencing more than one severe hypoglycaemic episode a year with no obviously preventable precipitating cause. (Severe hypoglycaemia is generally recognised as hypoglycaemia involving convulsions/ unconsciousness) OR Experiencing more than 2 episodes of hypoglycaemia per week that the patient has been unable to manage themselves and are causing problems with daily activities. OR Experiencing more than 2 episodes of hypoglycaemia per week that the patient has been unable to manage themselves and are causing problems with daily activities.	Reason for proposed change(s)The National Institute for Health and Care Excellence (NICE) states there isn't enough evidence to show continuous glucose monitors are cost-effective enough for everyone with type 1 diabetes.Also see: NICE Technology Appraisal 151: https://www.nice.org.uk/guid ance/ta151NICE Guideline 17 (Type 1 diabetes in adults: diagnosis and management): https://www.nice.org.uk/guid ance/ng17Impact of proposed
	Motivated to comply with the requirements.		OR Inability to recognise or communicate about symptoms of hypoglycaemia e.g.	change(s) People with type 1 diabetes.

	because of cognitive or neur	rological disabilities where other forms of glucose	
The device should be withdrawn from	monitoring are not appropri	ate.	EIA - As this is a new policy,
patients who fail to achieve clinically			the assessment identified that
significant response after 6 months.	Pregnancy		there could be possible
		ssioned in pregnancy unless all criteria for CGM in	adverse impact on protected
All cases will be subject to individual		in pregnancy is used, funding is only for the	groups (disability and those
approval by the IFR Team		Insulin doses are reduced to pre-pregnancy levels as	who are less able to manage
approval by the interedition		d and CGM should not be continued beyond this	their condition, e.g children
	point.	a and com should not be continued beyond this	and people with a learning
	point.		
			disability and therefore
	FOR ALL PATIENTS		recommended further
	-	ean Absolute Relative Difference (MARD) value	engagement.
	should be chosen.		
		m with alarm function that will integrate and	
		he patient's established insulin pump, then this	
	CGM system should general	ly be used. However, an appropriate real-time	
	Dexcom CGM system with a	larm function may be considered for patients using	
	other insulin pumps, or thos	e individuals where the integrated system is not the	
	most clinically appropriate C	CGM system.	
	The device should be withd	rawn from patients who fail to achieve a clinically	
	significant response after 6		
	There should also be an ann	ual review to assure the clinically significant	
		that CGM is still the most appropriate method of	
	glucose monitoring for the p		
		en to switching to an integrated insulin pump/CGM	
		lace the insulin pump at warranty expiry, if	
	appropriate.	ace the insum pump at warranty expiry, in	
	appropriate.		
	Children and young people	with type 1 disheter	
	CGM is not routinely commi	SSIUTIEU.	
	CCM will each be seen it.	I for notion to us the following outputs and	
	CGIVI WIII ONLY DE CONSIDERED	for patients when the following criteria are met:	
	Currently using a continuous	s subcutaneous insulin pump of high specification, in	

strict accordance with NICE appraisal TAG 151 and the local insulin pump policy.	
AND	
When provided by a specialist centre with a multidisciplinary team including an	
active member who attends at least 67% (2/3) of the North West children and	
young people's diabetes network meetings. In addition, the specialist centre is	
achieving best practice tariff in paediatric diabetes and is also engaged with the	
national peer review programme in paediatric diabetes, to monitor the quality	
of its service.	
AND	
Willing to commit to using CGM at least 70% of the time and to calibrate it as	
needed.	
PLUS	
Experiencing more than 2 episodes per week of severe hypoglycaemia. This is	
defined as having low blood glucose levels that require assistance from another	
person to treat and that are happening often enough to have a significant	
impact on school work or quality of life.	
OR	
Inability to recognise or communicate about symptoms of hypoglycaemia e.g.	
because of cognitive or neurological disabilities, or less than 4 years of age.	
OR	
Impaired awareness of hypoglycaemia which is associated with significant	
adverse consequences e.g. seizures or severe anxiety.	
Prior to transition to adult services, the child should be counselled on the	
transition process and advised that their CGM will be reviewed as part of the	
transition and their ongoing adult diabetes care. On transition to adult services	
there should be a review to assure there is still a clinically significant response*	
and that CGM is still the most appropriate method of glucose monitoring for the	
patient.	
Ongoing continuation of CGM	
* A clinically significant response is considered to be:	
• When the patient demonstrates wearing the sensor for at least 70% of	
the time.	
PLUS	
A reduction in the frequency and/or severity of hypoglycaemic	

	 episodes. OR A reduction in the need for third party intervention during 	
	hypoglycaemic episodes. AND/OR	
	• Achievement of a clinically significant reduction in HbA1c, that demonstrates the patient is moving towards their individually agreed HbA1c target.	
	**Where CGM is initiated due to hyperglycaemia in adults, it should only be continued longer-term if HbA1c can be sustained at or below 53 mmol/mol (7%) and/or there has been a fall in HbA1c of 27 mmol/mol (2.5%) or more, in accordance with NICE CG17	
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