

Introduction

Diabetes mellitus (diabetes) is a condition where the amount of glucose in your blood is too high because the body cannot use it properly.

Around 32,000 children and young people with diabetes in England and Wales receive treatment from a paediatric clinic. That's 1 in every 500 children. About 95% have Type 1 diabetes, and around 5% have Type 2 diabetes or other rare forms of diabetes.

Type 1 diabetes is an autoimmune condition where the pancreas cannot produce insulin. Type 2 diabetes in children and young people has stronger genetic causes and is linked to having excess weight and being obese.

On page 29) o P i P ö ö Ü ® Š Đ ö :: Š 2 o ī ò p o i 2 ® : Š ® H used in this report relating to diabetes care.

Overview

The National Paediatric Diabetes Audit (NPDA) takes place annually in England and Wales.

This report covers care provided between April 2020 and March 2021, i Ø P § Ø h µ 2 ö Š /: i P H Ø H Ø µ Ú 2 : H o µ Š 2 ï H Ø µ ! „ B X (L Á É i P H Ø H Ø µ ® P I Ü S P ö H o ï / 2 h P ® P D Š ® 2 µ § 2 ® P D § Š Á C Á § ö P P § : i µ 2 µ Š l ö µ H µ H µ 2 ® Š H Š H H Ø µ y § (. Á Ø i H Ø µ / Š ® µ ý P § Š l ï µ § H µ ® § Ø P ö ® 2 µ Š ® o P D / µ / ö h µ 2 H Ø P : H P ý µ .

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Increasing numbers with diabetes in 2020/21

There were 3662 children and young people newly diagnosed with

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Health checks 2020-21

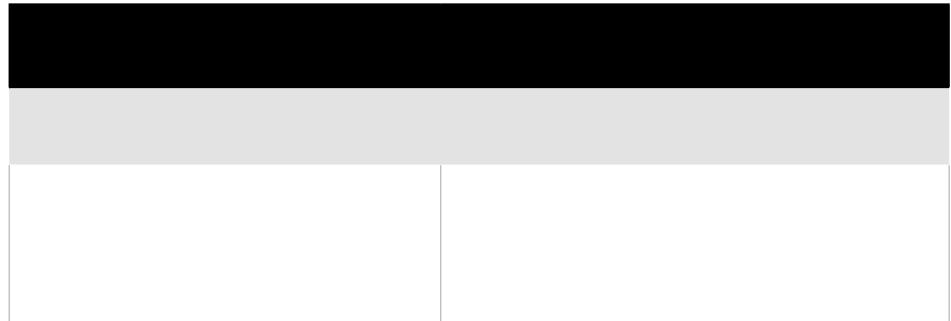
The care your child should receive

The NPDA annual care processes and outcomes report 2020-21 provides information about the key health checks that your child should receive.

The National Institute for Health and Care Excellence (NICE) recommends several health checks which should be performed at least once annually for children and young people with diabetes.

The NPDA describes six of these to be ‘key’ annual checks for children and young people with Type 1 and Type 2 diabetes in the report.

Key health checks your child should receive



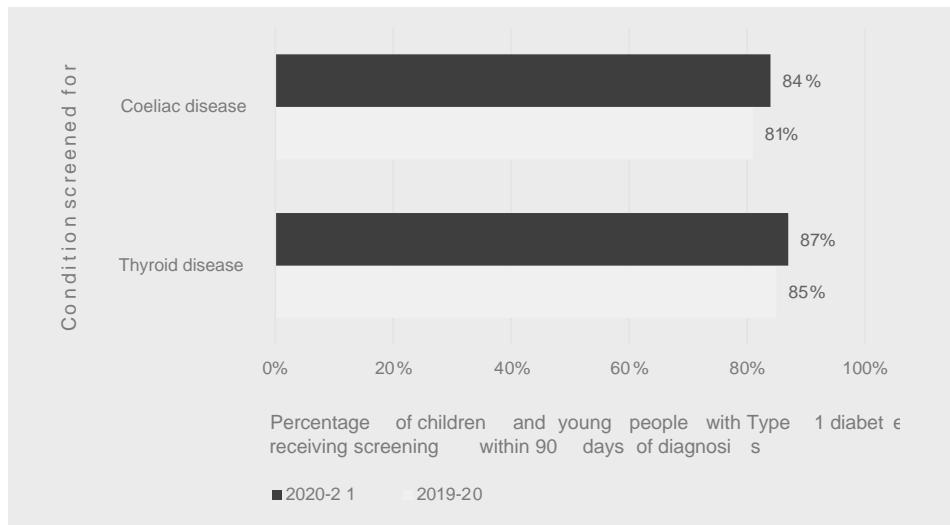
At diagnosis:

- Screen for thyroid and coeliac disease i P H Ø P É Á ® Š o: Í ® P Š D : P as children and young people with Type 1 diabetes have a higher risk
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Type 1
- Provide Level 3 carbohydrate counting education L H Ø P: Š ö ö i:
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Type 1

Within the audit year:

- Complete a psychological screening assessment since problems such as anxiety, depression and disordered eating can be more
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Type 1 & Type 2
- Ask about smoking, : H Ø Š H : P // 2 H Í 2 2 μ ® P § P D 2 1 P P H H : ý ö P D § Š ! μ i P 2 μ ® P Í μ § μ : : Š 2 o.
Type 1 & Type 2
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Type 1 & Type 2
- Provide 'sick-day rules' advice H Š ö ö i Í Š ý P ö P μ: H : μ ö Í L ý Š Š D P ® P Š ! μ H μ: ® P 2 P D H Ø μ 2 P ö ö μ : : P § Ø Š: § P D Ø: Š ®
Type 1 & Type 2
- Offer at least one additional dietetic appointment with a 2 μ D P: H μ 2 μ ® ® P μ H P H P Š .
Type 1 & Type 2
- Offer training in the use of blood ketone testing strips.
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ketones in the blood can lead to a serious condition called diabetic
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Type 1

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Carbohydrate counting education

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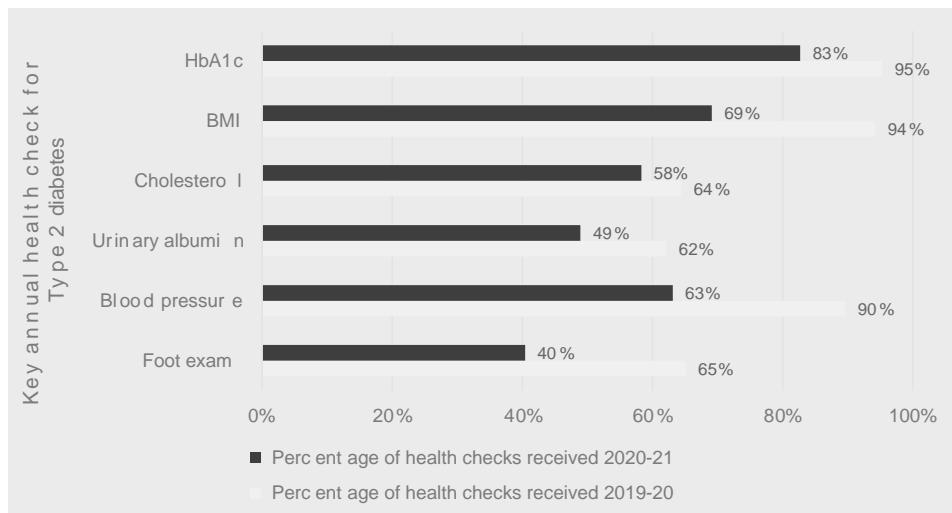
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specialist appointments attended (see page 8_____

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Completion of health checks

Type 2 diabetes

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There has been a drop in children and young people with Type 2
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Other checks and specialist appointments

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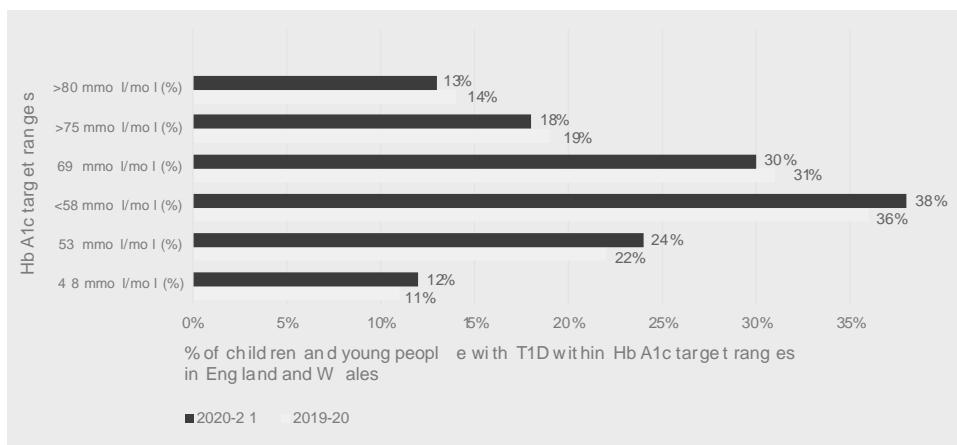
| Flu vaccine recommended | 'Sick-day rules' advice given | Additional dietetic | |
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These possibilities should not stop your child receiving the
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Outcomes - HbA1c

HbA1c results

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Compared to the previous audit year more children and young people are achieving

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Ask your diabetes clinic about their involvement in these activities.

Diabetes-related technologies

There are technologies for supporting the management of diabetes. They can monitor current blood glucose levels, alert you to highs/lows, show blood glucose trends over time, and/or help deliver insulin automatically. The audit looked into the diabetes-related technologies used in England and Wales, including:

- Insulin pump therapy - attaching a small electronic device to the body, which continuously delivers insulin beneath the skin.
- Continuous glucose monitors (CGM) – Small devices worn on your skin. They measure your glucose levels continuously. These devices let you see trends in your levels and

Diabetes-related technologies „P2Ù®þĐ:

In the 2020-21 audit year, in England and Wales:

- Younger children, those living in the least deprived areas and those
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- Children and young people with Type 1 diabetes using tCGM
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| Percentage of children and young people with Type 1 diabetes achieving HbA1c targets by RtCGM use | | | | | | | |
|---------------------------------------------------------------------------------------------------|----------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------|
| | ž Ä È mmol/mol | >48 & ž Å Ä mmol/mol | >53 & ž Ä È mmol/mol | >58 & ž Ä È mmol/mol | >69 & ž Ç Ä mmol/mol | > Ç Ä È ž Ä mmol/mol | È >80 mmol/mol |
| Ç : p Đ rtCGM | Ä Ä - | Ä Ä - | Ä É - | Â Ç - | Æ - | Ä - | Å - |
| Not using rtCGM | É - | É - | Ä Ä - | Â Ç - | Ä Ä - | Å - | Ä Ä - |

Xii o P i Pö® öpòμ H Ü ® PH ý 2μ Š! PH ®pš!μHμ:L2μ technologies, speak to your diabetes teams about the options available to you.

Image by Emma Galvin

Type 1 diabetes

Eye disease

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High cholesterol

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High blood pressure

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Overweight (having a BMI of 25 or over)

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Type 2 diabetes



Eye disease

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High cholesterol

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High blood pressure

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Overweight (having a BMI of 25 or over)

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Key conclusions

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and clinicians to compare the care provided by their clinic to others in
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Glossary

Albuminuria

*See Urinary albumin

Body Mass Index (BMI)

A measure of someone's size based on their weight and height. It is used to determine if someone is a healthy weight for their height.

BMI = weight/height²

Care process

A care process is an essential healthcare check that should be performed at least once per year e.g. HbA1c or height and weight check. There are some healthcare checks which only start once your child reaches 12 years, such as eye screening. Please ask your clinic for further details or see pages 6 and 7.

Cholesterol

A fatty substance which is vital for the normal functioning of the body.

Excessively high levels of cholesterol can have an adverse effect on health.

Clinical Commissioning Groups (CCGs)

Clinical Commissioning Groups are clinically-led NHS bodies responsible for the planning and commissioning of health care services for their local area in England.

Coeliac disease

An autoimmune disease (meaning that the immune system mistakenly attacks healthy tissue in the body) caused by the gut's reaction to gluten.

Continuous glucose monitor (CGM) / real time continuous glucose monitor (rtCGM)

A small device that you wear just under your skin. It measures your glucose levels continuously throughout the day and night, letting you see trends in your levels and alerts you to highs and lows.

Diabetic ketoacidosis (DKA)

A serious condition that can occur in people with diabetes, indicating a severe lack of insulin. This can occur if insulin is not given when needed or during episodes of other illnesses. *See Ketones.

Glucose

A blood sugar which acts as a major source of energy for the body.

Healthcare Quality Improvement Partnership (HQIP)
An independent established organisation to promote quality in healthcare, to increase the impact that clinical audit has on healthcare quality improvement.

Ketones

A ketone is a chemical substance that the body makes when it does not have enough insulin in the blood. It comes from the breakdown of fat.

Key health checks

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