Information for Young People

Complication Screening

Eye, nerve and kidney disease are complications of diabetes. Complications are not something that just happens in the oldies. They can also happen to young people with diabetes. But it doesn't have to happen to you.

There is good evidence that the risk of developing complications is greatly reduced by keeping your blood glucose levels (BGLs) under control, always giving your insulin and eating a healthy diet. Other good news is that regular check-ups by your doctor can delay, or may find early signs of complications, which can then be treated promptly, preventing them from getting worse. Some complications, if caught early, can be prevented from progressing any further, or even reversed.

Important: If you are not attending a diabetes specialist, ask your GP to arrange these tests. If any of the tests are positive your GP should refer you to a diabetes specialist immediately.

Type 1 Diabetes - When to Start Screening?

Complication screening in young people with Type 1 diabetes should start once they have started puberty and have had diabetes for at least 2 years. In younger children (pre-puberty) screening should start once they have had diabetes for 5 years. Screening can also detect some medical problems that are more common in young people with Type 1 diabetes, like Thyroid and Coeliac Disease.

What Screening Tests are done?

This table outlines what tests need to be done and when, according to the National Evidencebased Clinical Care Guidelines for Type 1 Diabetes in Children, Adolescents and Adults¹.

	When to commence	Screening frequency	
Blood tests:			
HbA1c	At diagnosis	Every 3 months	
Coeliac	At diagnosis	Annually	
Thyroid	At diagnosis	Annually	
Lipids	At diagnosis if there is a family	Every 5 years until	
	history OR from 12 years of age	puberty, and then annually	
Retinopathy	From age 9 if diabetes	Annually if high risk, long	
	diagnosed 5 or more years	duration of diabetes, high	
	previous; or from age 11 if	HbA1c or NPB retinopathy;	
	diabetes diagnosed for 2 years	otherwise every 2 years	
Nephropathy	Children – after 5 years duration	Annually	
	or from age 9		
	Adolescents and Adults – after 2	Annually	
	years duration		
Neuropathy	One year after diagnosis	Annually	
Blood	At diagnosis	At least annually	
pressure			





Type 2 Diabetes -When to Start Screening?

Complication screening in young people with Type 2 diabetes should start when they are first diagnosed.

What Screening Tests are done?

This table below outlines what tests need to be done and when.

	At Diagnosis	Every 3 months	Less frequently
Measurement of:			
Height & Weight	\checkmark	\checkmark	
Blood pressure	\checkmark	\checkmark	
Blood tests for:			
HbA1c	\checkmark	\checkmark	
Lipid disorders	\checkmark		\checkmark
Examination of:			
Eyes	\checkmark		$\sqrt{*}$
Kidneys (urine test)	\checkmark		\checkmark
Feet	\checkmark		\checkmark

* If fundal photography is used, then every 2 years

References

- National Evidence-based Clinical Care Guidelines for Type 1 Diabetes in Children, Adolescents and Adults -<u>http://www.nhmrc.gov.au/_files_nhmrc/publications/attachments/ext004_type1_diabetes_children_adolescents_adults.pdf</u>
- 2. Global IDF/ISPAD Guideline for Diabetes in Childhood and Adolescence. <u>https://www.ispad.org/sites/default/files/resources/files/idf-</u> <u>ispad_diabetes_in_childhood_and_adolescence_guidelines_2011_0.pdf</u>