

Hypoglycaemia in diabetes



Hypoglycaemia



Information for children and young people

Great Ormond Street Hospital for Children NHS Foundation Trust

Hypoglycaemia

- Hypoglycaemia or 'hypo' is the word used to describe a low blood glucose level
- The blood glucose will be 3.9mmol/l or below

What causes hypos?

- Too much insulin
- Not enough food
- Extra activity/exercise
- Poor absorption of food
- Some medications
- Alcohol and drugs

Symptoms

- These can be varied and people may experience very different symptoms
- Common symptoms that occur are: hunger, feeling shaky, dizzy, sweating, headache, feeling angry and looking pale
- If your blood glucose drops below 2.8mmol/l, the brain is not supplied with enough glucose and you may struggle to concentrate and/or your behaviour may change

Notes

How do I treat a hypo?

The 15 Rule

- Treat a blood glucose of 3.9mmol/l or below (even if you feel alright)
- Treatment is by taking a fast-acting carbohydrate by mouth
- Treat as soon as possible, to prevent your blood glucose dropping even further. Correct treatment will also prevent your blood levels rising too high afterwards (rebound hyperglycaemia)
- Carry hypo treatment with you at all times
- You will need about 15g of fast-acting carbohydrate, this may vary depending on your age

Fast-acting carbohydrate	Quantity	
Lucozade [®]	100mls	½ cup
Glucose tablets	3 – 5	1 tablet = 3g carbohydrate
Non-diet fizzy drink	150 – 200ml	1 mini-can
Fruit juice	150 – 200ml	1 small carton
Glucogel [®]	1 – 2 tubes	Each tube has 10g
Jelly sweets such as Haribo®, Fruit Pastilles®, wine gums	20g	1 very small packet/4-6 sweets

- Once you have treated the hypo, wait for 15 minutes and re-test. The aim is to restore the blood glucose back to a normal level, aiming to reach 5.6mmol/L.
- Chocolate, biscuits, milk, bread, cakes and fruit are not suitable hypo treatments as the glucose is absorbed too slowly. Your blood glucose could continue to drop while the food is being absorbed
- You should not need to eat more after treating your hypo. If you have a further hypo you may wish to consider eating some starchy carbohydrate.
- If this happens regularly you should contact your diabetes team as your insulin may need adjusting.
- If the hypo is just before a meal it is important to treat the hypo before eating. You may wish to consider taking insulin after eating in this situation.

Severe hypoglycaemia

- This is uncommon
- It is when your blood glucose has dropped too low and your brain cannot work properly
- If you are conscious, then use the 15 rule
- If you are unconscious, then nothing should be put in your mouth. You should be given the glucagon injection. A parent or carer can do this or they can call an ambulance and the paramedic will be able to give it instead. Glucagon works within 10 minutes



- Once you have regained consciousness, you should eat some starchy carbohydrate.
- After having the glucagon injection there is a risk of further hypoglycaemia so you need to be reviewed at your local hospital.
- Any severe hypoglycaemia should be discussed with your specialist diabetes team to prevent it from happening again



Call our Clinical Nurse Specialist for Diabetes on 020 7405 9200 ext. 1597 or Diabetes Specialist Dietitian on 020 7405 9200 ext. 5941 The Juvenile Diabetes
Research Foundation
(JDRF) provides support
and advice to families
of children with diabetes.
Call them on
020 7713 2030 or
visit their website at
www.jdrf.org.uk

Diabetes UK is the main support organisation in the UK for anyone affected by diabetes. Call their Careline on 0845 120 2960 or visit their website at www.diabetes.org.uk





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