



Short Synacthen Test

Information for parents and carers

You have been given this leaflet as there have been concerns regarding your child's cortisol levels. If after reading this leaflet you have any further questions, please contact Dolphin Ward on 01227 864052.

What is a Short Synacthen Test?

This test measures the amount of cortisol your child's body is able to produce.

Why is cortisol important?

When we experience physical or emotional stress the pituitary gland in the brain produces a hormone called ACTH. ACTH travels in the bloodstream to the adrenal glands and makes them produce cortisol. The adrenal glands lie just above each kidney.

Cortisol has an important role in helping the body cope with stress such as illness, infection, surgery, or trauma. It is needed to maintain normal blood pressure, control sugar levels, and for our general wellbeing. Synacthen is a medicine that has a similar effect to ACTH, stimulating the adrenal glands to make cortisol.

What are the benefits of doing this test?

- Children who have abnormalities of the pituitary gland may have low levels of ACTH and therefore low cortisol levels.
- Also, children who have taken oral steroid medications for long periods may need this test. This is because their own body's production of steroid / cortisol may be reduced or supressed.

The Short Synacthen Test formally checks your child's cortisol response, which will help your child's doctor plan their treatment.

What happens if we decide not to have this test?

If you decide that you do not want your child to have this test, your doctors will have less information available about your child's cortisol levels, and your child can only be monitored in the clinic.

What happens before my child's test?

Your child will be given a morning appointment to come to Dolphin Ward at Kent and Canterbury Hospital for their test. They can eat and drink as normal before their test.

If your child is taking hydrocortisone or another oral steroid, please do not give it on the morning of their test. It is important to talk to your child about their test, explaining everything as simply as possible.

What happens on the day of their test?

- Please report to the reception desk in the Children's Assessment Centre at the Kent and Canterbury Hospital.
- A nurse will greet you and your child, and take you both through to Dolphin Ward for your child's test. Please use this time to ask any last minute questions. Remember that you can withdraw your consent for treatment at any time, should you change your mind and wish to do so.
- You can stay with your child while they have their test.
- Anaesthetic cream will be applied to numb the area, before a nurse inserts a cannula into a vein; this
 should not hurt. A tiny plastic tube remains in the vein and the cannula acts as a "tap", so blood can be
 taken repeatedly without having to keep inserting needles to collect it.
- After baseline blood tests, an injection of synacthen is given through the cannula. Following this, a blood sample is taken at 30 minutes (and sometimes 60 minutes) to measure the cortisol response.
- The test usually takes around two hours to complete in total.
- Once the cannula is in place your child is advised to sit on their bed but is able to do activities such as crafts, playing, using electronic devices (such as tablets and smart phones), or watching TV. Bringing things with you to help entertain your child would be helpful.
- Once the test is complete, you can go home.

Are there any side effects to having this test?

Synacthen can cause side effects but this is very unusual. Rarely, synacthen can cause flushing and a feeling of sickness and sleepiness. Very rarely patients may have an allergic reaction with skin irritation, swelling, or wheeziness.

When will the results be available?

Results are usually available one to two weeks after the test. They will be discussed at your child's next clinic appointment or you will be informed by letter or phone call.

Contact details

If you are unable to come to your appointment or you have any questions or concerns about the test, please contact Dolphin Ward on 01227 864052.

This leaflet has been produced with and for patients.

Please let us know:

- If you have any accessibility needs; this includes needing a hearing loop or wanting someone to come with you to your appointment.
- · If you need an interpreter.
- If you need this information in another format (such as Braille, audio, large print or Easy Read).

You can let us know this by:

- Visiting the Trust web site (https://www.ekhuft.nhs.uk/ais).
- Calling the number at the top of your appointment letter.
- Adding this information to the Patient Portal (https://pp.ekhuft.nhs.uk/login).
- Telling a member of staff at your next appointment.

Any complaints, comments, concerns or compliments, please speak to a member of your healthcare team. Or contact the Patient Advice and Liaison Service on 01227 783145 or email (ekhtr.pals@nhs.net).

Patients should not bring large sums of money or valuables into hospital. Please note that East Kent Hospitals accepts no responsibility for the loss or damage to personal property, unless the property has been handed into Trust staff for safe-keeping.

Further patient information leaflets are available via the East Kent Hospitals' web site (https://www.ekhuft.nhs.uk/patient-information).

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