Autoimmune enteropathy: information for families

Autoimmune enteropathy is a rare condition affecting young babies causing severe long-lasting diarrhoea. This information sheet from Great Ormond Street Hospital (GOSH) explains the causes, symptoms and treatment of autoimmune enteropathy.

Autoimmune enteropathy is thought to be an autoimmune disorder although further research is needed to prove the actual mechanism of how the condition develops. Autoimmune disorders occur when the body mistakenly attacks itself rather than a foreign invader such as a bacterium or virus. We do not know what triggers this mis-programmed immune response. In some cases of autoimmune enteropathy a genetic cause can be found.

How is autoimmune enteropathy diagnosed?

The doctor will usually start by taking a clinical history of which symptoms are present and when they developed. A number of tests and procedures will be needed to rule out more common causes of diarrhoea. Samples of stool will be examined in a laboratory to exclude other causes of diarrhoea. Small samples of tissue – biopsies – will also be taken from various locations in the intestines as well. The biopsies will usually show destruction of the villi and areas of sore tissue. Blood tests will also be needed to look at the child’s immune function and nutritional status.

How is autoimmune enteropathy treated?

If dehydration has developed, the initial task is to re-hydrate the baby by infusing fluid directly into the bloodstream through an intravenous cannula (thin plastic tube) inserted into a vein. The fluid usually contains minerals and salts to correct these levels as well.
Medicines to reduce the autoimmune reaction will be needed. In many cases, this will include corticosteroid medicines and immunosuppressant medicines that damp down the immune system so that the body no longer attacks itself. In many children, these medicines will have to be taken on a long term basis, but regular blood tests will monitor for any side effects and ensure that the minimum dose needed is given. Damage to the intestines is usually monitored with regular endoscopies.

**What is the outlook for babies and children with autoimmune enteropathy?**

The outlook is variable, depending on the severity of symptoms. Children with autoimmune enteropathy need nutritional support and adequate hydration to ensure optimal growth and development. In some severe cases, TPN may be required long term. Immunosuppression therapy has been used successfully but in more severe cases, a bone marrow transplant may be required.

**Further information and support**

There is no dedicated support group for autoimmune enteropathy but the umbrella organisation Contact (previously Contact a Family) may be able to put you in touch with another family affected by the same or similar condition. Call them on 0808 808 3555 or visit their website at [www.contact.org.uk](http://www.contact.org.uk)

PINNT (Patients on Intravenous and Naso-gastric Nutrition Therapy) is the support group for anyone using TPN. Call them on 01202 481 625 (9.30am - 4.30pm, answerphone at other times) or visit their website at [www.pinnt.com](http://www.pinnt.com).