New treatment for irritable bowel syndrome?

Irritable bowel syndrome (IBS) is a general term for many intestinal afflictions. The symptoms include stomach pains and discomfort, bloated intestines or flatulence and constipation and diarrhoea. Researchers estimate that about one in ten Norwegians are troubled by IBS. Adults and children alike can suffer from it, but women are the most susceptible.

Despite the multitudes of sufferers, medical researchers know little about the cause. Some think persons with IBS are incapable of metabolizing a certain type of carbohydrate and sufferers can be asked to stick to the so-called FODMAP diet.

The FODMAP diet (Fermentable Oligo-, Di- and Monosaccharides and Polyols) involves dropping foods containing fermentable carbohydrates.

This is one of the treatment methods that have helped reduce IBS symptoms, but it does not work for everyone.

Raising levels of butyric acid

Butyric acid can help curb inflammations and might boost intestinal bacterial functions. Bowels with impaired bacterial function are more prone to admitting toxic substances that can be absorbed by the intestinal mucus membrane and pass further into the body. This can irritate and infect the intestines, as often seen in IBS patients.

Researcher Rebecca Wall has now been granted NOK 2.4 million (about $290,000) from the Swedish Research Council to study how butyric acid affects the intestines and whether it can be used in treating IBS. Tests have previously been done with animals but Wall expects to be the first one to follow up the lead by
exposing blood samples and intestinal tissue samples to the acid. Samples will be taken from healthy persons as well as ones with IBS.

Too good to be true?

In 2016, Per Farup, a professor at the Norwegian University of Science and Technology (NTNU), and his colleagues studied faeces samples from persons with and without IBS. They found that the IBS patients exhibited lower levels of butyric acid and higher levels of propionic acid.

“Research has been published about the beneficial effects of butyric acid on the intestines and propionic has been seen to have negative health effects. So the findings in the study were not unexpected,” says Farup.

The NTNU study showed that levels of the two acids might be used as a diagnostic marker for IBS. Farup and his colleagues have plans to pursue this prospective tool.

Farup says it sounds a trifle too good to be true for butyric acid to function as a “cure” for IBS. But he is keen to see the results of the future study.

“I am intrigued by this research project approach and the results will be appraised with a great deal of interest,” says Farup.

Reference:


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Read the Norwegian version of this article at forskning.no [5]

Medical researchers do not know what causes the relatively common intestinal disorder IBS. (Photo: Antonio Guillem, Shutterstock, NTB scanpix) [6]


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