

# Researchers change clinical practice for infants with diabetes

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Credit: Ingvild Festervoll Melien

It is not necessary to treat diabetic infants with insulin syringes. This will be new clinical practice after a recent study, now published in *Lancet Diabetes & Endocrinology* in which researchers from Bergen and Exeter

tested the replacement of insulin syringes with tablets.

"All infants diagnosed with diabetes before six to seven months of age should be given a rapid gene test to change treatment as soon as possible from [insulin](#) to sulfonylurea tablets. They can expect a long and very good effect of the treatment of blood sugar control, and the treatment is safe," says Professor Pål Rasmus Njølstad at the University of Bergen.

In 2004, researchers discovered that relatively high doses of sulfonylurea tablets could be used to treat diabetes in [infants](#). This principle has given a new life to children with this type of diabetes, because 90 percent can stop insulin injections and even achieve better [blood sugar control](#), at least for one year, without the problem of low blood sugar. However, it has been unknown whether this treatment can be maintained in the long term, especially as sulfonylureas fail in half of those with type 2 diabetes after five years of treatment.

The results are now available from an international multi-center study from centers in Bergen, Exeter, Rome, Paris and Krakow. This included 81 people who 10 years ago switched treatments from insulin to sulfonylurea tablets. It was found that the failure effect of treatment, which is often seen in type 2 diabetes, rarely exists in this type of infant [diabetes](#). Sulfonylurea is safe for this treatment, even with the relatively high doses needed. An excellent control of [blood](#) glucose was retained after 10 years of [treatment](#). Some children initially experienced a certain recovery of neurological features, but most of them did not have any clear improvement in the problems.

"These findings will give many children a new and better quality of life," says Njølstad. "This is one of the few examples of the lasting effects of precision medicine."

**More information:** Pamela Bowman et al. Effectiveness and safety of

long-term treatment with sulfonylureas in patients with neonatal diabetes due to KCNJ11 mutations: an international cohort study, *The Lancet Diabetes & Endocrinology* (2018). [DOI: 10.1016/S2213-8587\(18\)30106-2](#)

Provided by University of Bergen

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