

Over the next decade, CRISPR and other forms of gene editing could help people with rare disorders — and millions more with heart disease, diabetes, and chronic pain

In the next decade, [Crispr-Cas9 and other new gene-editing techniques](#) may protect the health [of] millions of people with a range of conditions, including chronic pain and diabetes. Rather than take drugs for years or even decades, for example, at-risk people might be able to protect themselves with a one-and-done Crispr therapy.

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Scientists [reported last December](#) that gene-edited cells curbed severe pain and other symptoms in a small number of patients with sickle cell disease and beta-thalassemia, two rare, inherited blood disorders.

Verve Therapeutics, a Cambridge, Mass.-based startup, presented animal research in 2020 showing that a Crispr-based therapy for cardiovascular disease reduced levels of LDL, or “bad” cholesterol, by an average of 61%. [Crispr Therapeutics](#), a Swiss company, and a partner plan to test a Crispr therapy for diabetes: An under-the-skin implant containing Crispr-edited cells that will deliver insulin, with the goal of eliminating injections and regular testing of glucose levels.

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“We showed Crispr gene editing works in humans,” [physician Dr. Haydar] Frangoul says. “We made a crack in the door. The crack is getting wider.”

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