

In MIT, they created the glue activated by light to replace the surgical seams

Scientists of the Massachusetts Institute of Technology (MIT) have developed a bi-compatible polymer, which is able to “glue” fabrics without damage and can become an alternative to seams and brackets. The material is activated in blue light in 30 seconds and is reliably fixed even on wet fabric.

The development began as a research project, and in 2013 grew into Tissium. Now the technology is used in the Coaptium Connect product to restore nerves in the fingers and legs. The system includes a polymer, a 3D printed holder for fixing the nerve and the source of blue light. After activation, the polymer reliably connects the ends of the nerve, and then gradually dissolves.

In clinical trials, 12 patients with damage to the nerves of the fingers participated – all completely restored mobility. For comparison, with a traditional seam, a significant improvement is achieved only in 54% of patients.

Tissium is developing six more medical solutions based on this technology, including a hernia treatment system and sealing heart vessels.

*News -in -law materials cannot be equated to the doctor's prescription. Before making a decision, consult a specialist.*