Dr. Kishore B. Sandu
Head – Airway Sector,
Médécine Hautement Spécialisée –
Quaternary Care Clinic for
Laryngotracheal
Center Hopitalier Universitaire
Vaudois - CHUV
Lausanne University Hospital,
Switzerland.
Kishore.Sandu@chuv.ch
079 556 82 29
www.chuv.ch/airways

How could surgical cicatrization be improved when using hydrogel glue?

Who are the patients?
Patients undergoing surgical procedures, especially those requiring enhanced wound healing and tissue repair, such as cardiovascular, orthopedic, or reconstructive surgeries.

What is the problem?
Current surgical adhesives and sutures often lack the ability to promote vascularization, leading to delayed healing, poor tissue integration, and higher risks of infection or scarring.

What is the need?
A tissue glue that not only provides strong adhesion but also promotes vascular growth to accelerate healing, improve tissue integration, and reduce post-surgical complications.

What is the benefit (if problem were solved)?
Faster, more efficient healing with reduced scarring, lower infection rates, improved tissue regeneration, and overall better surgical outcomes.

Wrap up
The development of a hydrogel glue could address a critical gap in surgical wound management by combining strong adhesion with biological activity to enhance vascularization, accelerating recovery, and improving patient outcomes.