

SHARK ANASTOMOSIS CONNECTOR

INNOVATIVE SUTURELESS SURGICAL DEVICE



licensing@sattse.com
+33 (0)4 13 24 66 02

PARTNERSHIP

Licensing

R&D collaboration

INTELLECTUAL PROPERTY

Patent pending

Working prototype in progress



PROBLEM ADDRESSED

Vascular anastomosis still requires non-absorbable thread and overlook for sutures. Even though this approach is broadly used, it is **time consuming, surgeon-dependent** and flawed with **risks of stenosis or leaks**.

According to the latest estimations of the HAS, a novel device for large vessel anastomosis could be used for **10.000 interventions per year in France** (\approx 1 million in the world).



TECHNOLOGY

The innovative device, created by a vascular surgeon, is a **liquid-tight connector** for **easy and rapid connection** in various cases such as **end-to-end or side-to-end anastomosis**.

This device fits **vessel-to-vessel** as well as **vessel-to-vascular prosthesis connections** without damaging vessel walls or inducing stenosis.



ADVANTAGES VS. STATE OF THE ART

Compared to sutures, this device is:

- ✓ Reliable and reproducible
- ✓ Fast to implant: reduces surgical and anesthesia time
- ✓ Easy to use
- ✓ Leak-free
- ✓ Fosters colonization of endothelial cells
- ✓ Traps the vessel wall without damaging it.



APPLICATIONS

The solution is adapted for **vascular surgery** :

- Arteriovenous anastomosis
- Large vessel bypass in knee-pelvis and chest-abdomen areas
- Peripheral arterial reconstruction
- Extra-anatomical reconstruction

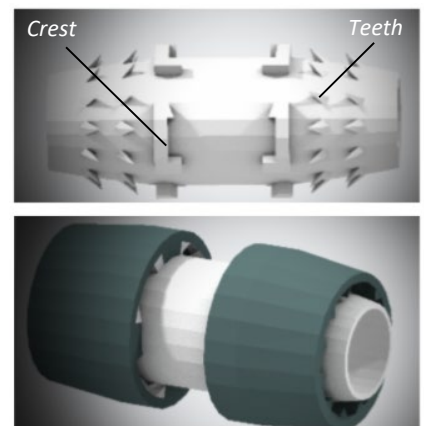


Figure 1. Shark device

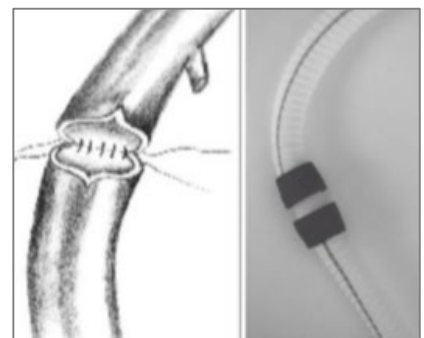


Figure 2. End-to end vascular anastomosis with sutures (left) and with Shark (right)