Overview of the wound healing skills in the STERN region

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Region of BioRegio STERN

Stuttgart
Tübingen
Esslingen
Reutlingen
Neckar-Alb

STERN
Main skills in the STERN region

Focused on the fields of regenerative medicine, medtech/biotech synergies and automation

Establishment of the „Health region REGiNA“ and the REGiNA project

- Focus on the development of new treatment methods for regenerative medicine and medical technology
- Piloting their implementation in patient care

But inside of the REGiNA project:

Two part-projects in the context of wound healing
REGiNA research projects in the context of wound healing:

**Amedrix** is a medical bioengineering company which develops highly innovative collagen based implants particularly for human cartilage.

In the context of the REGiNA research project the experience gained herewith will be included in the development of a collagen matrix for the treatment of deeper wounds.

The advantage of this matrix: cell-free product

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REGiNA research projects in the context of wound healing:

**ERBE Elektromedizin** has its focus on the development, manufacturing and sales of systems for electrosurgery, cryosurgery and physiotherapy.

In the REGiNA research project the endoscopic waterjet technology is being optimised for a completely different purpose: therapeutic stem or tissue-specific cells are to be transported inside the body to the exact place where they should unfold their healing effects. This could be an internal wound caused by an injury or a surgical intervention.

Contact: ERBE Elektromedizin GmbH
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Wound healing consultation hours at the university hospital of Tübingen

Focus on patients with diabetic foot ulcer, venous and arterial disturbed blood circulation

The wound healing consultation hours is part of a interdisciplinary concept (vascular centre, diabetes outpatient department).

Director: Prof. Dr. Stefan Beckert
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University Hospital for general Visceral and Transplantation Surgery Tübingen
Wound healing skills in Tübingen

Part of this concept is an experimental research lab with focus on

- angiogenesis
- nitrogen-monoxide metabolism
- wound healing transplantation
- wound healing in the elderly

The wound healing working group is active in national and international associations

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Wound healing skills in Stuttgart

Institute of Textile Technology and Process Engineering Denkendorf

Germany’s largest center of Textile research

Working on innovative wound management products and processes

Wound cover Suprathel®
(Marienhospital Stuttgart / Polymedics Innovation)

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Thank you for your attention!