

ERMED – Development of a novel textile X-ray protection material to relieve medical staff and patients

Problem / Motivation

- In order to prevent damage to health, medical staff and patients wear heavy, usually lead-based, radiation protection clothing, such as X-ray aprons and capes
- Lead-containing protective materials are hazardous waste after being used
- Alternative, recyclable substitutes for lead do not meet safety requirements
- The aim is the development of lead-free X-ray protection equipment that is lighter, more sustainable and physiologically safer than existing solutions

SAXA-SYNTAPE
SYNTHETISCHE GARNE & FÄDEN

Solution

- Development of lead-free yarns as X-ray protection material
- Development of X-ray shielding, textile and customisable surfaces made from innovative, lead-free yarn material
- Creating a manufacturing technology for the production of a demonstrator
- Proof of protection against X-rays

Project Launch

04/2024

Project Partner

SAXA-SYNTAPE GmbH



Various types of X-ray aprons in use (© Sanova)

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