

SMART MEDICAL TEXTILES FOR WIRELESS HEALTH MONITORING

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ABSTRACT

The human population, especially in Germany, is aging rapidly. One of the reasons for this is negative natural increase, which causes a shortage of manpower.

A lack of staff in medical care centers can be noticed. [1] People are living longer and would like to take care of themselves by their own as long as possible. In order to do so they need appropriate support in form of for example “intelligent” textiles.

The KOB group has been developing special elastic textiles for medical use for over 110 years. The production of bandages and woven fabrics includes all production steps. As a private label manufacturer (OEM) KOB is delivering on the market the range of first-class tested source materials comprises bandages for compression, support and fixation as well as woven fabrics and carrier materials. Nowadays KOB is developing new smart textiles containing electronic sensors for medical applications.

KOB is running couple of development projects and focusing on intelligent plaster for wound monitoring, smart textiles for the pressure measurement by the compression and sports medicine.

KOB is developing smart textiles with integrated sensors for medical use. Examples of current development projects as well as ideas and opportunities for potential cooperation will be part of the presentation.

References

[1] M. Meyer, “A Flexible and Stretchable Wireless Health Monitoring Sensor Platform Connected to a Mobile Device”, Shaker Verlag, 2015.