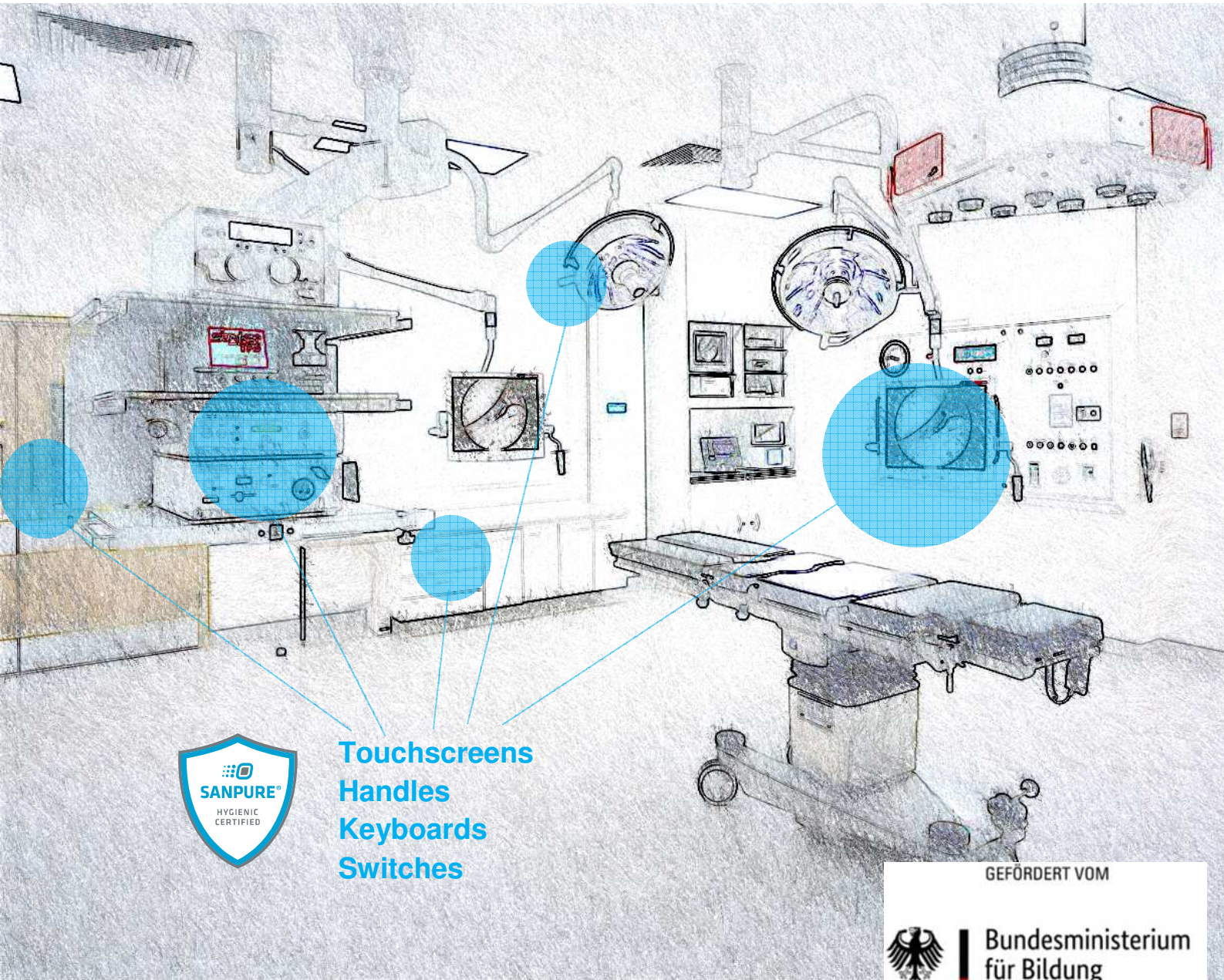


## Case study | emergency room



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Bundesministerium  
für Bildung  
und Forschung

Regensburg, June 2019

New results from a double-blind study, supported by the Ministry of Education and Research in Germany have shown:

Smallest amounts of Silver in surfaces are a major contribution to a better hygiene of clinical rooms.

SIFO.de



## Avoidable Infections

According to official estimates 10,000 to 15,000 people die each year by hospital infections in Germany. Besides this tragical fate the cost for the society exceed billions of euro in Europe as a socio-economic consequence.

## Increase Safety of Patients

The Clinic of the University of Regensburg together with the RAS AG focused on the improvement of patient's safety. Their experts in hygiene intensively investigated the possibilities of antimicrobial surfaces in clinical surrounding.

## The basic idea: SILVER

Silver is the only biocide with activity against all kinds of mildew, like bacteria, viruses and fungi AND a maximum safety for humans.



The study was performed with SANPURE® coatings containing the silver-reference produced according to medical quality standards (DIN EN ISO 13485) with all necessary approvals. The efficacy against germs was repeatedly proven by independent studies worldwide.

## Hygiene in Digits

Emergency rooms at the University of Regensburg were equipped with antimicrobial SANPURE® coatings (see picture). The surfaces were tested for bacterial contamination in the lab (IN VITRO) and also in real mode (IN VIVO). The results have been compared in a double blind study design.

### Results IN VITROstudy:

Surfaces were contaminated with different (multi resistant) germs under controlled conditions according to DIN EN ISO 22916. The rate of reduction was found to be 99.9 %, similar to 3 log units.

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The efficacy of bacteriostatic surfaces in real surroundings is much more difficult to show. Hygiene experts of the University of Regensburg established a procedure to monitor the contamination over time during normal use of the observed emergency rooms. The data have been compared to data of a identical emergency room without silver functionalisation.

### Results IN VIVOstudy:

The double-blind study was conducted over a time range of 90 days with the following results:

- ⇒ Surfaces with adverse conditions for germs (silver containing coating) show a significant improvement of the hygiene in clinical surrounding.
- ⇒ The all over contamination with germs was strongly reduced, despite regular disinfection measures.
- ⇒ The contamination with high germ loads was significantly reduced.

## SANPURE® is an answer

SANPURE® is state of the art technology to improve the hygiene of surfaces and give patients more confidence in the safety of the medical care.

Solutions are available for any kind of surface you want to improve with the SANPURE® technology.

For further information or any kind of assistance please contact:

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