

Opportunity



SURPASS: SURgical PATient Safety System, a digital checklist that can reduce up to 50% of peri-operative procedure-related deaths

- Digitalized checklist for multidisciplinary monitoring and checking of the surgical process from (pre-) admission to discharge
- Easily adjustable to specific hospital demands, hospital-own software and electronic patient records
- Track-and-trace system of completed and scheduled safety checks per individual patient

Therapy | Surgery | Checklists | Software

2011

Background

A large number of preventable adverse events are encountered during hospital admission and in particular around surgical procedures. The AMC developed and validated a checklist to prevent errors and adverse events.

Know-How

The multidisciplinary SURPASS checklist has been developed at AMC. The checklist accompanies the patient during each step of the surgical pathway until discharge and is completed by different health care professionals involved in the surgical process. It has been scientifically proven that SURPASS reduces mortality related to surgery by almost 50%.

Scientific Data

Implementing a surgical checklist that targets the entire surgical pathway, rather than just the operating room, reduces in-hospital mortality by nearly a half and the total number of surgical complications by a third in hospitals that already had a high standard of care, according to a study in the New England Journal of Medicine.

R&D Status

The paper version of the SURPASS checklist is available as published by de Vries et al. in New England Journal of Medicine in 2010. An application named SURPASS Digital has been developed allowing checklists to be entered digitally. SURPASS Digital is made available to hospitals all over the world by the SURPASS Support group in collaboration with Middletree B.V..

Principal Investigator

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SURPASS SURgical Patient Safety System			SURPASS	SURPASS Digital
1	Prevents adverse errors.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
2	Using a validated and effective checklist	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
3	Offers tooling for implementing safety guidelines	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
4	Interoperable with most Health Information Systems and Patient Data Management System	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
5	Track-and-trace system for patient checks during the operative process	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
6	Up to date status of the checklist is available any time, anywhere	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
7	Easy archiving and analysis of completed checklists	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
8	Implementation support	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
9	Available for all hospitals	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Signed by: *SURPASS Support team*