



**21<sup>ST</sup> **  
**WORLD**  
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# Management of loan equipment sets

Sigurd Vandendriessche, lead nurse sterile services Europe hospitals, Brussels

Joint venture with

Europe Hospitals

Johnson & Johnson : Steven Van kerckhoven

Sterima : Jef Van Dijck

17 / 20 NOVEMBER 2021  
CICG, GENEVA, SWITZERLAND

## The topic of this presentation : « loan equipment sets »

Definition of loan equipment sets:

- external kits, consisting of both instruments and implants
- arriving in the hospital for use in one patient surgery only
- then returning to implant and instrument loan equipment provider



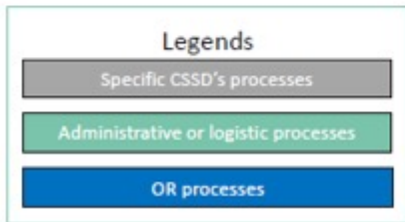
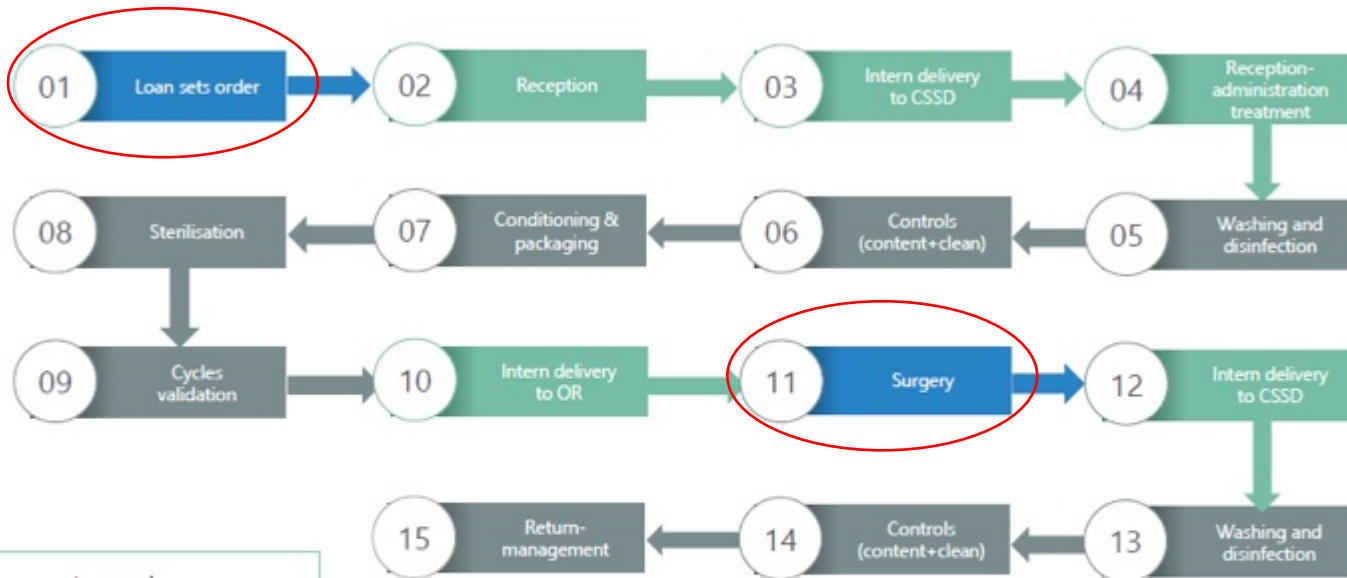
**Arrival of loan equipment**



## Classic (non-sterile) flow of loaner equipment sets

- Arrival of loan equipment at all hours of the day. Traffic jams in Brussels, late ordering of loan kit.
- No forward warning of arrival of loan equipment.
- It made it quite impossible to proceed without disturbing our normal CSSD activity.
- Re-scheduling of theatre lists (various calls and angry theatre staff).
- Due to late arrival of kit, staff staying on and doing overtime... ( stress, no happy bunnies)
- No extra staff for this extra work due to budget restrictions in our hospitals.
- MDR requires hospitals to track and trace every tray and instrument, which is difficult with unsterile loaner kits (it would require data entry for every tray).

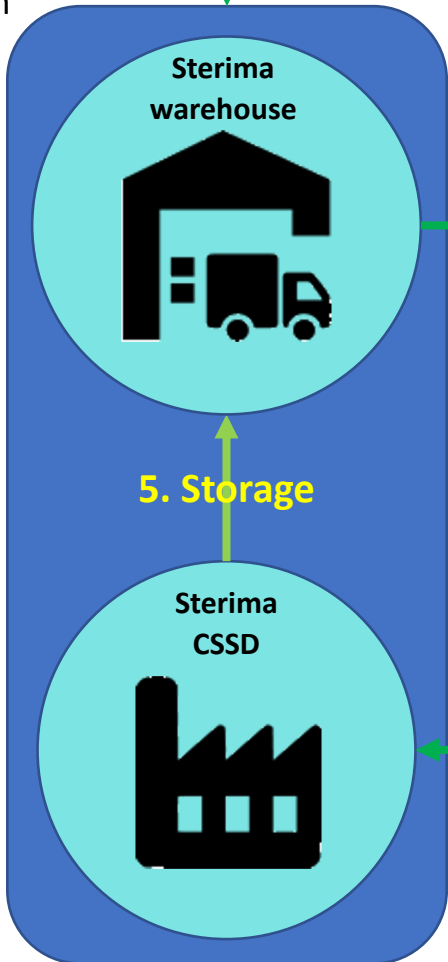
Johnson & Johnson  
MEDICAL DEVICES COMPANIES



- Survey with Mobius on 11 campuses and additional 29 respondents on main difficulties of loaner kit process
- Introduction of sterile loaner eliminates workload on CSSD
- Partnership with Sterima based on quality and experience
- Joints Reconstruction, Trauma/CMF, Spine are provided in sterile loaners
- Emergency shipments



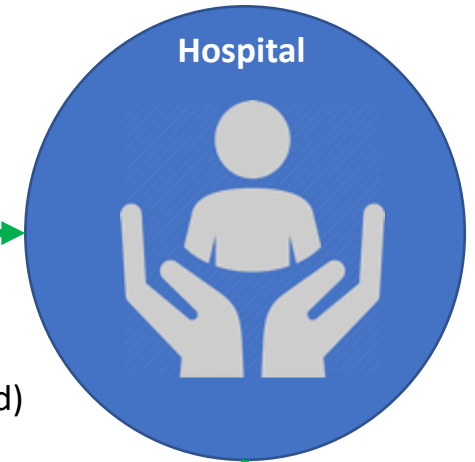
- Reservation entered in J&J system
- Interface message to Sterima platform



### 1. Delivery to hospital

- Night before surgery  
 Delivery in trolleys :
- Sterilised instrument trays
  - Boxes with RFID-tagged implants (sterile packed)
- Delivery at agreed drop-off point in hospital

### 2. Surgery



### 3. Pick-up and return to Sterima

- Evening / night after surgery  
 Pick-up in trolleys :
- Unused + used instrument trays ("dirty")
  - Boxes with RFID-tagged implants (sterile packed)
- Pick-up at agreed pick-up point in hospital

### 4. Reprocessing

- Pre-cleaning
- Washing
- Inspection
- Replenishment
- Sterilisation

### 5. Storage

# Loan equipment





Sterima handles the entire supply chain of these equipment sets

- Reprocessing of instruments trays and implant boxes
- Logistics : deliveries to and returns from the hospitals
- Since 2010
- 6 renowned Medical Device manufacturers
  - Such as Johnson & Johnson
- Current volume : 150.000 instrument trays / year



## Reprocessing of instrument trays

- State of the art CSSD
- Accurate instrument data
  - Tray contents
  - Washing instructions
  - Functional controls
- Cycles validated to handle these specific trays
- ISO 14644 Class 8 cleanroom
- ISO 13485





## Reprocessing of Implants

- Sterile implants
- RFID tag on every implant
- Tunnel RFID reader
- Exact content of every implant box is known
- Accurate implant consumption data
- Implant boxes remain tidy

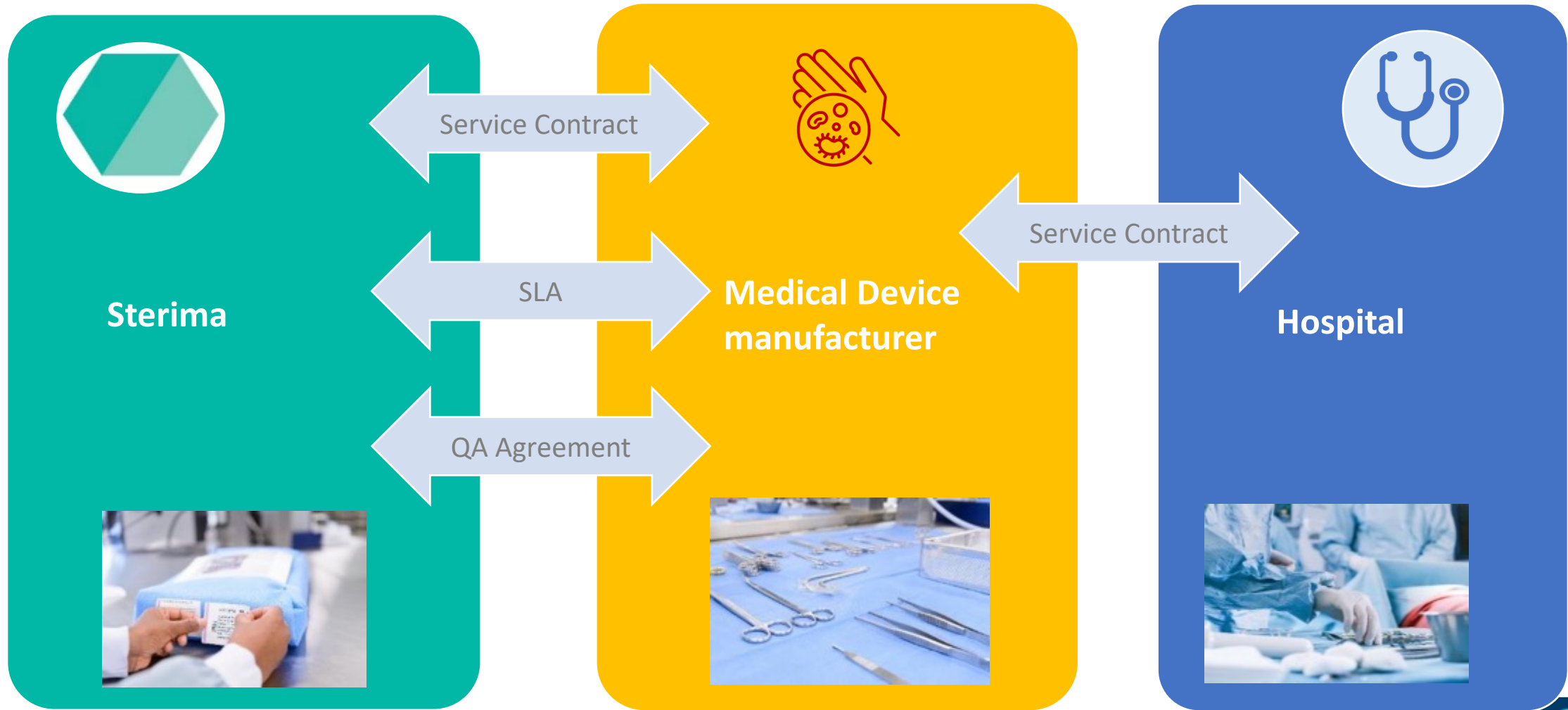




## Logistics

- Shipments to and returns from the hospital sites
- Mainly during night (standard process) but also day deliveries
- Custom made deliveries
  - Instrument and implants together
  - Patient oriented
  - Dedicated to one surgery
  - Avoids the need to check which instrument tray/implant box belongs to which surgery
- Delivery at the drop point set by the hospital
  - Close to the Operating Theatre
  - Night access rights





## Results – using “sterile loaner equipment sets”

- Cutting costs by 33%
- Loan kit is delivered during the night in our hospitals
- Kit is always available for theatre
- No disruption to our normal CSSD activity
- Happy CSSD staff, we can focus more on our normal activity
- No more overtime due to loaner equipment sets

## **BELGIUM IS CANDIDATE TO ORGANIZE THE WFHSS CONFERENCE IN BRUSSELS IN 2023**

**J&J and Sterima are in full support of this candidacy**

