

The Randers Regional Hospital journey

IMPROVING OPERATION FLOW

Stine Rasmussen (Project Manager), Heidi Jakobsen (Operating nurse), Helle Asferg (Operating nurse), Joan Kristensen (Head nurse) Randers Regional Hospital

BACKGROUND

Both patients and staff experienced unnecessary waiting time in relation to operational flow. This lead to inefficient and unsatisfying utilisation of operational capacity.

AIMS

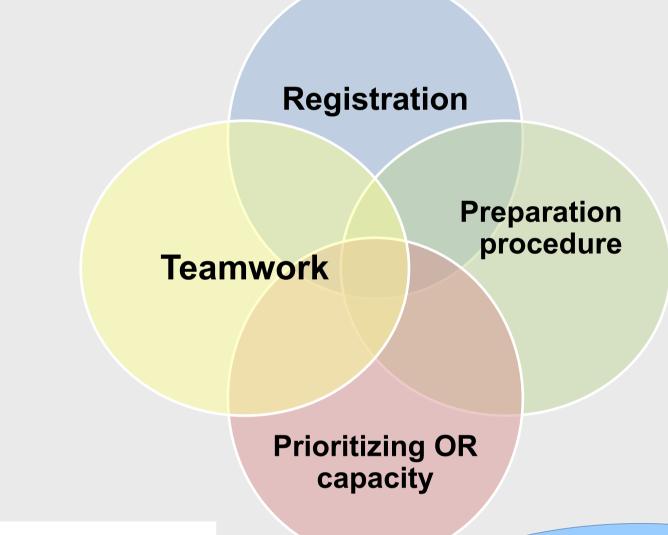
- reduce unnecessary waiting time for surgery
- increase patient safety
- increase staff satisfaction
- optimize resource utilisation

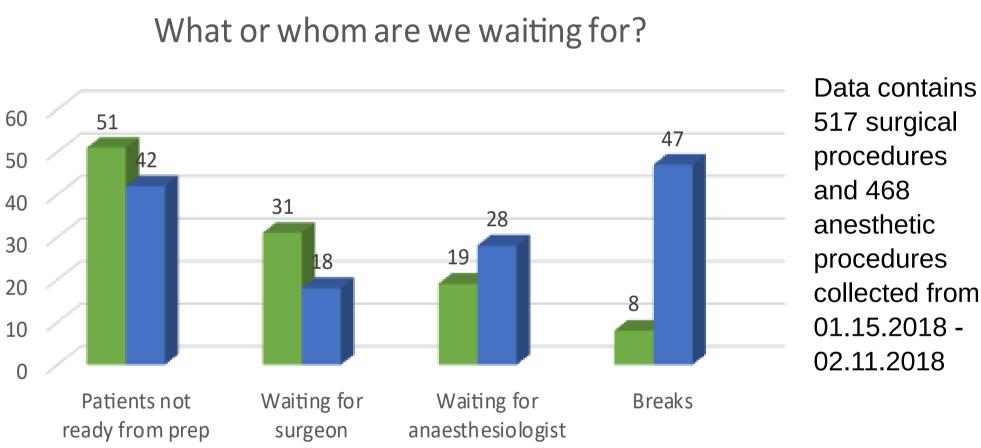
OUR APPROACH

The Model for Improvement were used in an extensive bottom-up setting with managerial support. All surgical and anesthetic procedures were systematically registered in a four week period. The question to be answered was:

"What are we waiting for, when we stand still?"

Focus areas based on identified bottlenecks:





■ OR nurses ■ Anaesthetic nurses

Four focus areas were appointed based on the identified bottlenecks

- 1. Registration
- 2. Preparation procedure
- 3. Prioritizing OR capacity

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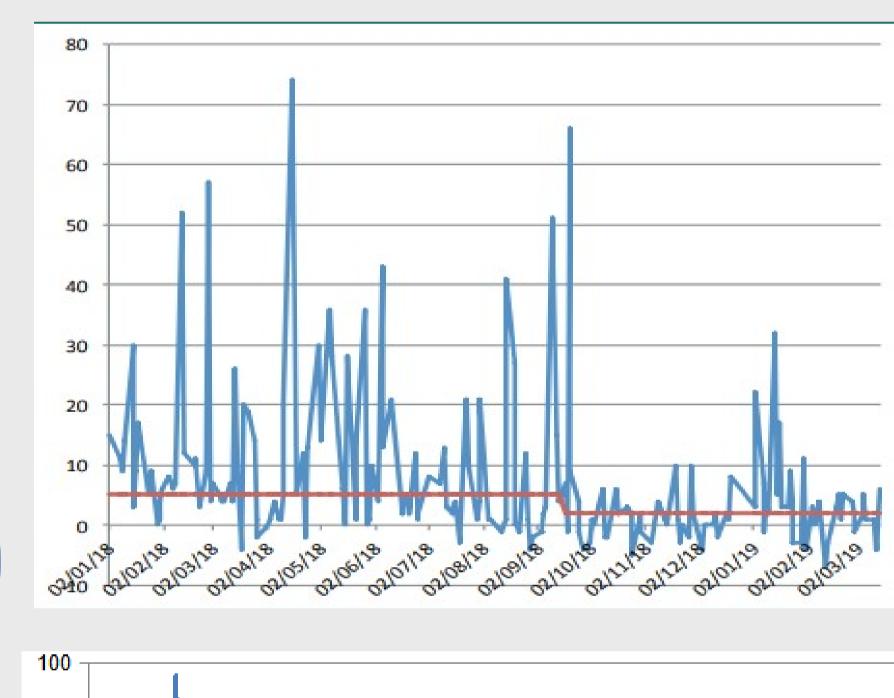
4. Teamwork

RESULTS

The identified bottlenecks were reduced due to the implemented interventions.

We have achieved an increased timeliness in the operating flow, amongst others:

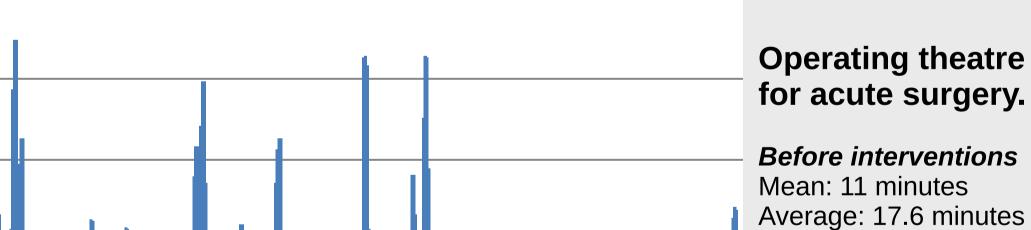
- Timely preparation of patients
- Better coordination of the OR-schedule and breaks
- Increased patients satisfaction
- Increased staff satisfaction though the employees express concern regarding simultaneous tasks



Operating theatre for elective surgery.

Before interventions
Mean: 5 minutes
Average: 10.3 minutes

After interventions
Mean: 2 minutes
Average: 3.3 minutes



After interventions
Mean: 4 minutes
Average: 9.5 minutes

INTERVENTIONS

The identified bottlenecks were addressed through following interventions:

OR huddles

To strengthen the daily coordination of all operating theatres the coordinating nurses and physicians met three times daily

All patients that can walk, must walk

To empower patients and to reduce a potential bottleneck (waiting time for service) all elective patients that can walk, must walk to the operating theatre.

Checklist for preparation of patients

To ensure that all patients are fully ready for surgery when arriving at the operating theatre a checklist were developed

Team huddles

Every morning all team members participate in a team huddle at each operating theatre to ensure better coordination of the OR-schedule and to increase team spirit

• Early determination of the first acute patient

To ensure timely start of the acute operating theatres in the morning, the first acute patient is determined at the OR huddle at 21.00 pm the night before.

Guidelines for surgical case grouping procedures were developed.
Only higher ranking surgical procedures can change the priority

RECOMMENDATIONS

- Involve all professional groups to ensure companionship - with physicians as an essential player
- Combine the bottom up approach with managerial support
- Use Model for Improvement and remember "study"
- Ensure interdisciplinary project management



