

Excerpt from 2015 TWIC Expo supplement:

# Involved in the entire process



▲Majbritt Aagaard, Project Manager, Hospital Innovation Department, Randers Region Hospital.

The Public-Private Innovation (OPI) cooperation between the Central Denmark Region and KR Hospitalsudstyr has focused on user-driven innovation.

BY LOTTE BROCHMANN

**INNOVATION** At the Regional Hospital in Randers, both patients and different professional groups have been deeply involved throughout the process surrounding the development of the intelligent bed OPUS 5.

“For us, it is a new way of developing and cooperating with private companies. Without a doubt, it has been beneficial for the hospital. We get qualified input and suggestions as to how we can solve clinical challenges”, says project manager Majbritt Aagaard from the hospital’s innovation department, which has served as facilitator in relation to the companies and clinical staff.

OPUS 5 has three new functions that give both the patient, resident and staff new

and different options; Lateral tilt function, foot-end exiting and a comfortable eating position.

**SAVES EFFORT**

“The fact that the bed can tilt saves us a lot of effort when turning our patients. It also helps the patient that we don’t have to grab hold of them so tightly when turning them”, explains Majbritt Aagaard.

“It is also good for the patients to get them to stand using the exiting function, as it is far less demanding of them”, she says.

“We really want to get patients out of bed as often as possible, because it supports the healing process. And if we can do that with less effort, it is clearly a huge

benefit for our work environment”, says project manager Majbritt Aagaard.

**INTERNET SUCCESS**

The Regional Hospital in Randers has witnessed a great deal of interest in the new intelligent OPUS 5 bed.

Recently, the hospital uploaded a short video featuring the bed to its Facebook page. In 48 hours, it was seen over 300.000 times and gave rise to more than 500 comments, primarily from professionals, who could clearly see the benefits the bed has to offer. Since then, many have contacted the hospital for information on the price and where the bed can be purchased, Majbritt Aagaard explains.

[Watch the video HERE](#) ■

Remarks about the OPUS 5 Hospital Bed from Randers Regional Hospital:



**EXIT POSITION**

- A natural choice for the first early mobilisations, where focus is not on the training “getting in and out of bed”, but on maintaining the musculoskeletal system in relation to breathing, the vessel valve function, gastrointestinal function and urinary tract.
- You clearly do not exert the same effort when mobilising patients from the foot end. In situations where it is used, we have only had to support the patient.



**EATING POSITION**

- The bed’s best comfort setting.
- Considered very good for both relaxing and eating in.
- Ideal for assessing the patients’ mobilisation readiness.
- Has a positive effect on patients’ breathing etc.
- Ideal for conversations, both with doctors and guests.
- Your head is clearer when you are sitting and this affects the patient’s perception of their illness.
- Can possibly be used as a step in early mobilisation.
- Ideal for nursing - especially for C-section patients and for assisting nurses.



**LATERAL TILT FUNCTION**

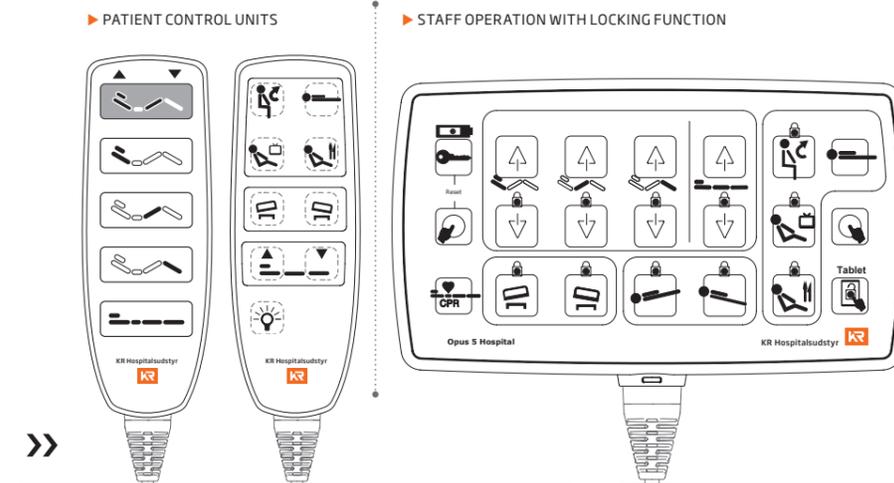
- This is the function that has received the most positive comments from users.
- It is used multiple times daily. Sometimes up to 8-10 times a day for bed washing, lower-body hygiene, pressure wound examination, for dressing, for moving hoists under the patient and for moving to another position.
- It is often enough with just one person to mobilise patients in connection with daily care.
- The function can also be used for lifting the chest when sitting on the edge of the bed.



	Work environment	Mobilisation	Prevention	Resource use	Patient comfort
<b>Lateral tilt function</b>	<ul style="list-style-type: none"> <li>Easier to reposition and turn the patient during ord. care, wound care and hygiene</li> <li>Easier to place sling and slide sheet under the patient</li> <li>Easier to move sideways</li> <li>Help from bed to seat</li> </ul>	<ul style="list-style-type: none"> <li>Allows more frequent repositioning</li> <li>Better sitting position at edge of bed</li> </ul>	<ul style="list-style-type: none"> <li>Practical for vomiting</li> <li>Better relief of pressure wounds</li> </ul>	<ul style="list-style-type: none"> <li>Less use of pressure-relieving mattress</li> <li>Fewer pressure wounds</li> </ul>	<ul style="list-style-type: none"> <li>Less pain</li> <li>Patient actively helps</li> <li>Uninterrupted sleep if repositioning can be done without waking the patient</li> </ul>
<b>Sitting position</b>	<ul style="list-style-type: none"> <li>Greater desire to mobilise</li> <li>Less strain on skeleton and muscles</li> <li>Fewer heavy mobilisations</li> </ul>	<ul style="list-style-type: none"> <li>Better level of alertness</li> <li>Good for stimulation of senses</li> <li>Good nursing position</li> <li>Good position for helping patient</li> <li>Observation position</li> <li>Early mobilisation</li> <li>Increased mobilisation during evening shift</li> <li>More movement and mobilisation</li> </ul>	<ul style="list-style-type: none"> <li>Better options for stimulation of senses</li> <li>Less improper swallowing</li> <li>Good position for feeding tube</li> <li>Improved breathing and metabolism</li> <li>Fewer urinary tract infections</li> <li>Fewer pulmonary complications</li> </ul>	<ul style="list-style-type: none"> <li>Fewer crumbs in bed</li> <li>Dialysis patients can insert their own needle</li> <li>Many tasks can be performed by a single nurse</li> <li>Less pain management</li> </ul>	<ul style="list-style-type: none"> <li>Patient-caregiver equality during conversations</li> <li>More cognitive awareness</li> <li>Changed illness perception</li> <li>More gentleness and good first-time mobilisation experience</li> <li>Self-mobilising</li> <li>Easier self-help in connection with hygiene</li> </ul>
<b>Exit position</b>	<ul style="list-style-type: none"> <li>Easier movement from bed to chair and vice versa</li> <li>Less strain on skeleton and muscles</li> <li>Fewer heavy mobilisations</li> </ul>	<ul style="list-style-type: none"> <li>Greater frequency of standing upright</li> <li>Good for weighing patients</li> <li>Observation position</li> <li>Early mobilisation</li> <li>Increased mobilisation during evening shift</li> <li>More movement and mobilisation</li> </ul>	<ul style="list-style-type: none"> <li>Better options for excretion</li> <li>Better appetite</li> <li>Improved breathing and metabolism</li> <li>Fewer urinary tract infections</li> <li>Fewer pulmonary complications</li> </ul>	<ul style="list-style-type: none"> <li>Many tasks can be performed by a single nurse</li> <li>Less pain management</li> </ul>	<ul style="list-style-type: none"> <li>More gentleness and good first-time mobilisation experience</li> <li>Self-mobilising</li> <li>Easier self-help in connection with hygiene</li> </ul>
<b>Other</b>	<ul style="list-style-type: none"> <li>Reduced need for auxiliary aids</li> <li>Prevents injury and wear</li> <li>Fewer confrontations</li> <li>With patients for first-time mobilisation</li> </ul>	<ul style="list-style-type: none"> <li>Better possibilities for active</li> <li>Cooperation between patient and nurse</li> </ul>		<ul style="list-style-type: none"> <li>Better possibilities for involvement of family members</li> <li>Fewer falls and better safety</li> <li>Fewer days in bed</li> </ul>	<ul style="list-style-type: none"> <li>Increased self-help</li> <li>More dignity for the patient</li> <li>Promotes patient involvement and decision-making</li> </ul>



Remarks from nurses and patients in connection with the prototype test of OPUS 5.



**“With the lateral tilt function, now I can perform the moves by myself, even with very heavy patients.”**

Nurse at the In-patient Department of Internal Medicine at Randers Regional Hospital after trying OPUS 5's lateral tilt function.

**“It is nice that I can sit up properly when my family visits.”**

Patient at the In-patient Department of Surgery at Randers Regional Hospital

**“Patients have a good grip on the side rail, and it is stable.” That means they are better able to help during mobilisation.”**

Dialysis nurse at Randers Regional Hospital.

**“It is gentler on the patient, because we don't have to push and pull her as much.”**

Nurse at the In-patient Department of Surgery at Randers Regional Hospital.

**“The patient sits much better at meals and when nursing.”**

Nurse at the In-patient Gynaecology Department at Randers Regional Hospital in connection with testing of the eating position for C-section patients.

**“The lateral tilt function is going to come in very handy - at least for hygiene and ordinary care”**

Nurse at the In-patient Department of Internal Medicine 4 at Randers Regional Hospital

**“It is nice to transport, not as heavy to get rolling and easy to manoeuvre in the room.”**

Porter at Randers Regional Hospital.

**“The expanded bed settings are great for apoplexy and Parkinson's patients who create resistance or stiffen. These patients often lie very heavily in their bed and are difficult to turn and mobilise.”**

Nurse at the In-patient Department of Internal Medicine 4 at Randers Regional Hospital.

**“It is a fantastic bed! It doesn't hurt nearly as much getting out of bed at the foot end, and I avoid pain from my operating scar.”**

Caesarian section patient at the In-patient Gynaecology Department at Randers Regional Hospital

**“Patients who need to eat in bed sit much better.”**

Dialysis nurse at Randers Regional Hospital.

**“The bed clearly spares the patient quite a bit of pain and a lot of heavy lifting for us.”**

Nurse at the In-patient Department of Internal Medicine 4 at Randers Regional Hospital.

**“We are especially pleased with the lateral tilt function, because moving patients over in our scanner doesn't require nearly the same amount of effort.”**

Porter at the Department of Diagnostic Imaging at Randers Regional Hospital.

**“The round profiles of the side rails are nice ”**

Dialysis nurse at Randers Regional Hospital.

**“The patient seems more alert when he sits up, and it is easier to communicate with him. He also seems to relax more.”**

Nurse at the In-patient Department of Internal Medicine 4 at Randers Regional Hospital

