Region Östergötland

Linköping University Hospital Radiology department

360 Experience analysis

Project overview

The Department of Radiology, Linköping University Hospital Region Ostergötland is a leading radiology department focusing on more extensive radiology procedures with and without intervention.

Objective

For the planning and design of a new environmental and spatial set up for the radiology department, Philips has been asked to support with a current and future needs based conceptual design.

The aim of this project is to develop a conceptual and schematic design based on identified needs to optimize the patient experience and the care flow for staff.

This poster presents the results from the current state 360 degree experience flow analysis that took place at the Radiology department in February 2019

Approach

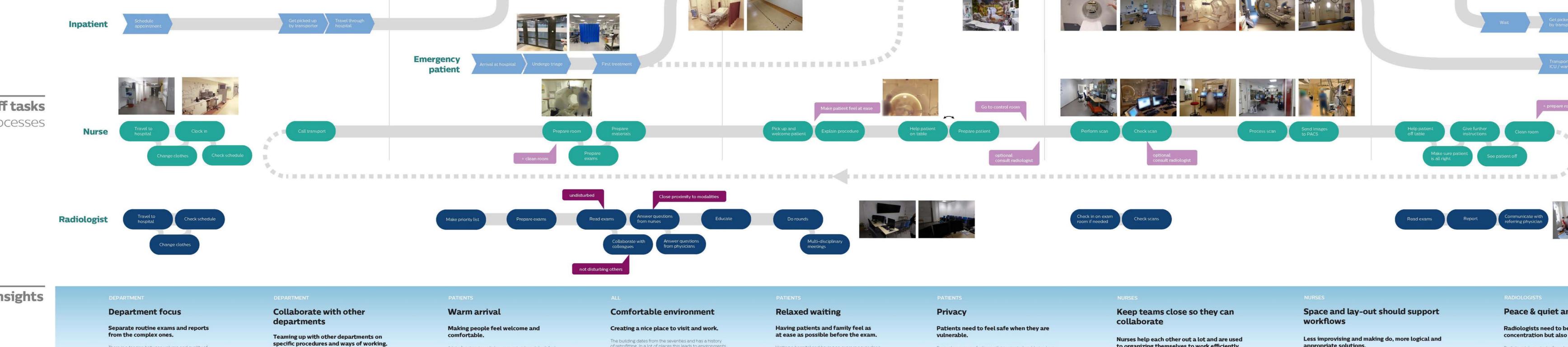
The 360 degree experience analysis fosters optimization across all aspects of care: Clinical, Operational, Technological and Experiential for existing, renovation or newly built healthcare environments.

Insights are concluded from qualitative research (interviews, observations, participation) in conjunction with data provided by the Radiology department.





Patient journey Staff tasks & Processes **Key insights**



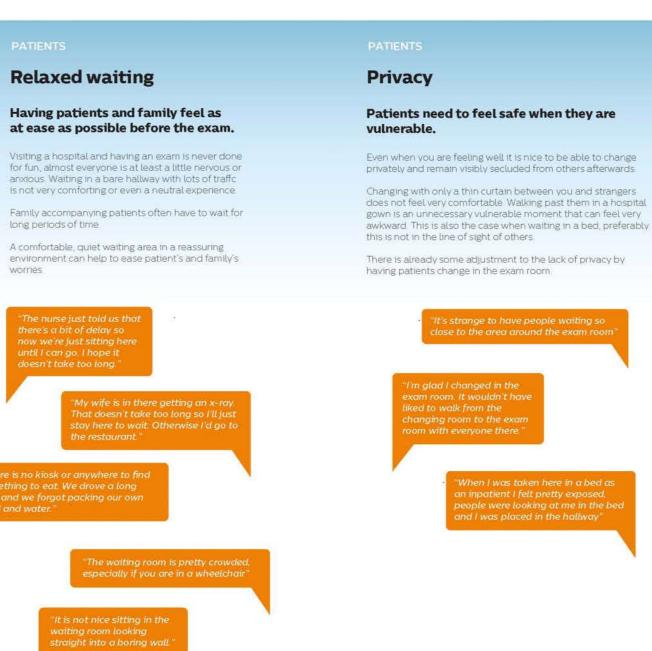
Prepare and travel



Registration



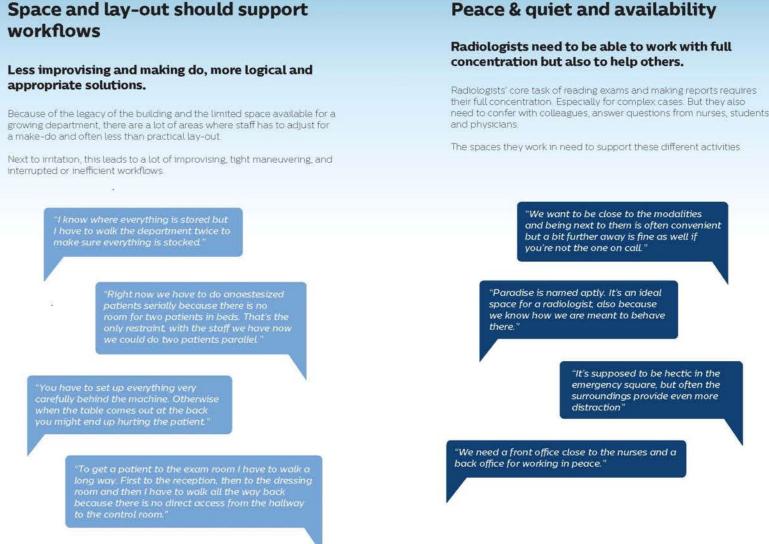
Pre-procedure





Procedure





Post-procedure



Environmental



Arrival at the hospital The immediate surroundings of the hospital facilitate an easy arrival. Car and bicycle parking are close to the main (north) entrance and bu stops are nearby. There can be some

confusion about whether to use the

north or south entrance.

There is a tension between volume and quality of

exams. The department is limited in the volume of

exams that can be made (staff, space). Also, being a

part of an academic hospital, the department is in the

cases and challenging procedures

ideal position to focus on the more unique and complex

It seems logical for the department to let go of volume

and develop towards becoming an expertise center

Entrance hall Entering the building there is not really a sense of entering a hospital With large open spaces, natural corridors, the ambience is closer to a university building or even a shopping center. A food court, shops and no obvious waiting spaces add

stakeholders in joint procedures with radiology

Hospital reception For radiology patients this reception is not especially relevant. In their information letter they have received reception can be used to confirm the route or to arrange a wheelchair or internal transport. There is a large information area next to the reception which also provides routing

information to radiology.



Although the hospital consists of multiple adjoining buildings, the large, open hallways without too much distraction help in navigating. Signage is not always obvious and the designation of different hospital floors and areas can be confusing. The route to the radiology department is short and fairly simple.



staff and patient experience.

Arrival at radiology department Reception All patients go by the reception. For The only way to know you are most visitors this is the first area that approaching the radiology department is through the signage. The entrance is clearly resembles a hospital. The approach to the reception is small confusing and still has a feel of the 1970s. The reception counter, with it's sliding glass windows is not very welcoming and creates a distance

between visitors and staff. The interior

whole department, a dated, somewhat

characteristics set the tone for the

impersonal, typical hospital



Way finding in the department During the day, visitors either wait in the reception waiting area or in areas close by The exception is PET CT where visitors have to navigate a long route with little signage. Most other movement through the department is done with staff guidance In the evenings, when the reception is closed visitors have to instructions. The route they take is not very complex but there is minimal

confirmation



Waiting areas In general, waiting areas are not very comforting or relaxing. Due to some legacy aspects of the department lay areas not necessarilly supportive of this function. Also, some older waiting areas are in difficult or less than optimal locations or are not used anymore. In to make them feel patient friendly but most have a dated and desolate feel There are not always secluded areas for patients in beds to wait. These

patients are parked in public hallways



Changing rooms and areas There are dilerent kinds of changing rooms throughout the department general the rooms and areas are not Often, the rooms do not isolate patients from their surroundings ver well (flimsy curtains, hard to close off very close to waiting people) A lot of changing rooms are situated in waiting areas which patients will have to trave through after changing in order to reach the exam room. Changing after the procedure at the PET CT is in the toilet



Corridors There is a nice and clear separation between staff and patient corridors. The central staff corridors are cramped and often very busy. Although conductive to social interaction, these corridors feel physically restrictive, lack daylight and can be noisy. Clutter also adds to this feeling. The patient corridors are larger but are often also used as waiting areas which restricts the space to maneuvre

beds. At some areas waiting patients

have to move in order for a bed to pass

Some corridors are also used to park

patients in beds



Storage Storage spaces are situated in several areas throughout the department. The locations do not support efficient optimally suited to official requirements. Additionally, the storing process also needs room to handle supplies



Preparation areas the table. Some modalities have

very quickly. To support an efficient

machine. Although not specifically

made to make these areas child friendly. The PET CT injection room is

enough, there would ideally be two per

designed for this, attempts have been

too small for all the activities that take

A lot of preparation is done in the exam room. Simple routine procedures such as IV placement are preferably done on preparation areas, usually for anaesthesia. These areas typically fit one bed and can become cramped



Exam rooms

For staff, space is one of the most important factors of their experience in the exam room MR and CT rooms are often too small to easily facilitate workflows for patients in beds or complex procedures with lots of equipment. Some of the ultrasound rooms are quite small as well facilitate elaborate procedures which are becoming more common. From standing room to power outlets, it quickly becomes noticable that these rooms were designed for standard



Control rooms / areas

Most control rooms or areas are

sufficient and support workflows

reasonably well. Environmental

areas is a nuisance and the GXR

workstations are in a cramped, busy

by staff. To support staff flexibility a

break space within the control area is

ideal (in addition to a general break

room for all radiology staff).

conditions are not always ideal. Noise

from machines in the open CT control

corridor. The lack of daylight is also an

one machine are very much appreciated

Leave



Reading rooms

Reading rooms are scattered throughou the department Some are (necessarily) close to the modalities, some are in a more central part of the department and some are located outside of the main department Reading rooms that can be closed off from the outside can be sufficiently quiet and distance to the workfloor helps keep for radiologists, reading rooms do not have to be very close to the modalities except for the radiologist on call. Peace and quiet is more important than close proximity.

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