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OpDesign - A study of the working environment in an operating unit

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In close collaboration with Helsingborg Hospital, an acute care hospital in southern Sweden, a group of researchers at Lund University has studied the work environment and work situation in an operating unit in a six-year project, OpDesign.

The aim of the project was to identify and examine the different factors that affect the work environment of the operating unit. A number of studies were implemented that focused on organizational and psychosocial factors as well as on the physical environment.

The results so far describe the problems and contribute new knowledge in different areas including:

Teamwork and management of work in an operating unit

Methodology for organizational development and innovation

Patient safety

Operating room lighting

Musculoskeletal problems when working in an operating room

Ventilation and diffusion of particles in the operating room

Experts from different scientific fields have collaborated and applied a variety of scientific methods in implementing the project. These methods have been both quantitative and qualitative, including measurements of physical parameters, video observations, surveys, interviews and estimation scales.

The OpDesign project has generated new knowledge about work in an operating unit and how it can be improved. Some of the suggested improvements have already been implemented in the daily activities, for example, new lighting in the operating room. Two doctoral dissertations presenting the results of the project have been defended in the spring of 2014.