

**Surgeons are often working:**

1. In awkward positions
2. With high precision
3. Very statically
4. Difficult to take breaks or job rotate

The physical challenges lead to:

1. **60%** of all surgeons experience issues with **shoulder, neck and hand**
2. **25%** reports this to be a **major problem for their work and life quality**
3. **15%** say they consider their future as a surgeon due to the problem

The consequence is lowered efficiency, high sick leave, and degradation of life quality

Viborg Regional Hospital case:

Viborg Regional Hospital experienced many issues among surgeons performing hernia operations. They decided to conduct trials using an assisting robot taking over some of the static work.

6 doctors performed up to 60 surgery both and without robot assistance. The reported pain level before, under, and after was measured as well as the strain using the MLI® Solution.

The results:

The comparison between surgery with and without robot assistance documented a clear difference:

1. **85% less strain, when using the robot**
2. **50% less pain, when using the robot**
3. **These results were, among others, used to validate the new investment in robots for the hospital**