

Pharma





Work in laboratories is often characterized by:

- 1. High repetitive work in hands and shoulders
- 2. Working in **LAF bench** which can be challenging ergonomic and often cause static work positions
- 3. Extensive work with **pipetting** with high stress on elbows and hands

The physical challenges lead to:

- 1. 4% of all office workers experience issues with carpal tunnel syndrome and tennis elbow.
- 2. 15% reports lower back pain within the last 4 weeks
- 3. Physical symptoms like headache, tensions in shoulder and neck are very common among laboratory technicians

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

The Novozymes case:

Novozymes is a global leading biotechnology company. A enzymes production unit had issues with attrition among employees. **12% reported issues in elbow or hand**. The unit had many different types of tasks, and it was difficult for them to point out why the problems occurred.

The unit was screened using MLI® Solution to figure out what tasks and employees were at high risk. Also focused on the core reason, why it constituted a high risk. After the screening improvements were implemented and an effect measurement was performed.

The results:

After implementing different improvements (physical training, job rotation, ergonomic improvements, and individual guidance), the unit achieved the following results:

- 1. 15% reduction in critical strain in general
- 2. 42% reduction in critical strain for specific tasks
- 3. 77% reduction in critical strain for individual users