

Case Study UZ Brussel



**3800
employees**



**700
beds**



**30.000
admissions per year**



Falls in nursing homes and hospitals are a common problem among older adults. Most people aged 65 or older experience one or more falls each year.

Unresolved fall incidents can lead to significant health consequences, such as functional decline, reduced quality of life, and in extreme cases, death.



THE SCENARIO

The University Hospital Brussels (UZ Brussel) is one of Belgium's leading medical centers. UZ Brussel is not only a hospital for the general population, but also has a special geriatric ward where nearly 30 elderly patients are cared for in 19 rooms.

To reduce the workload of staff by reducing the number of false alarms and unnecessary room checks, UZ Brussel and Kepler Vision Technologies have entered into a partnership.

Previously, the team at UZ Brussel had to check on their patients regularly and rely on other simple but unreliable and outdated systems to detect falls in patient rooms.

These methods were not optimal, because they did not distinguish between an actual fall and, for example, the shifting of the bed or a pillow falling on the floor.

This led to an abundance of unnecessary false alarms, which nurses eventually stopped responding to.



Kepler Night Nurse™

THE SOLUTION

In the summer of 2023, UZ Brussel began a major upgrade of its monitoring system, introducing Kepler Vision Technologies' AI-driven Kepler Night Nurse, a fall detection and prevention system that monitors patients using a sensor in their rooms.

THE RESULTS



70% fewer false alarms



More peace and security for patients



Workload of staff is reduced



Staff have more time for warm care



PRIVACY

Patient privacy at UZ Brussel is of the utmost importance. Because Kepler Night Nurse uses AI monitoring of live camera images to monitor patients, it was important to give each resident the option of whether they wanted to be monitored in this way. That is why only patients at UZ Brussel were monitored with this new system after they gave their consent.



"Kepler Night Nurse provides our healthcare staff with an additional tool for monitoring confused and wandering patients. We are now alerted when these patients get out of bed or leave their room."

Dirk van Raemdock
Head Nurse, UZ Brussels

Since the introduction of Kepler Night Nurse in the geriatric department, UZ Brussel has also introduced Kepler Night Nurse in the neurology department.