



SESSIONS AND WORKSHOPS ON:
**AUTOMATION IN RECONSTITUTION
AND PRODUCTION OF MEDICINES**
**BEDSIDE DISPENSING SERVICES
AND PHARMACEUTICAL CARE**

Keynote 1: Management Perspective on Automation**Speaker: Hugo van der Kuy****Abstract**

One of the greatest challenges facing the healthcare sector is the shortage of personnel. A recent report in the Netherlands projects that by 2040, one in three workers will need to be employed in healthcare, compared to the current ratio of one in six as of 2024. There is no indication that pharmaceutical care will be exempt from this trend. Concurrently, various initiatives are being developed to improve "our pharmaceutical care," but these improvements often rely on additional personnel. Furthermore, the move towards more personalized care, in my opinion, also tends to increase the demand for personnel rather than decrease it.

Implementing new innovative practices in healthcare is particularly time-consuming, necessitating immediate action to be prepared for 2040.

The automation of certain processes seems a logical step, such as the preparation of drugs ready to administer, logistics, distribution, and administration control. Several examples will be discussed. Simultaneously, we must optimize other processes like medication monitoring, medication reviews, and information dissemination to physicians, nurses, and patients. Data insight and ensuring single registration of source data (e.g., opioids) are crucial in this context. It may also be necessary to prioritize tasks and discontinue certain activities.

Yet, we all tend to reinvent the wheel and suffer from the "not invented by me" syndrome. However, we can and must harness our collective strengths. How can we organize this collaboratively? Through propositions and questions, we will work interactively towards a possible solution.

Learning objectives

After the session, the participant should be able to:

- Gaining insight into demographic trends of healthcare personnel in Europe
- Becoming informed about the various initiatives aimed at addressing shortage of personnel
- Developing an action plan to make local decisions on where to focus efforts

Educational need addressed

In order to guarantee sustainable healthcare from the perspectives of sufficient healthcare workers in the future most healthcare systems must be reengineered with focus. A general vision and reflection allows critical appraisal of the different drivers for this evolution.

Keywords

healthcare workers, automation, innovation, decision-making, collaboration