



EU Big Data Stakeholder Forum: the Nurses Perspective

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Big Data, Technology and Artificial Intelligence Meaning For Nursing

- The healthcare industry starts to see how beneficial Big Data, Technology and AI can be to patients, doctors, and nurses.
- Nurses can:
 - perform duties in niches that an AI system cannot fulfil
 - provide the human element (such as compassion and empathy) alongside AI
 - evaluate AI outputs and determine if the system's conclusions are reasonable
- A nurse leader can make use of Big Data to improve the level of care offered by hospital nurses enabling:
 - reduction of manual work, improvement of efficiency therefore patients satisfaction.
 - smart decision when combined with appropriate analytics

Priorities

1. Business is changing; therefore, nurses need to adapt or be left behind.
 - a. Increasing **awareness** on the value of Big Data is crucial.
 - b. Improving **skills** in Big Data by developing and delivering a specific training
2. Deliver a sustainable platform to access and analyse healthcare data from across the EU (Data Analysis and Real World Interrogation Network - **DARWIN**).
 - a. Improve evidence-based decision making
 - b. Improve management of observational studies
3. Data managed and analysed within an **ethical** governance framework.
 - a. Data security
 - b. Ethical dilemma

Opportunities / Risks

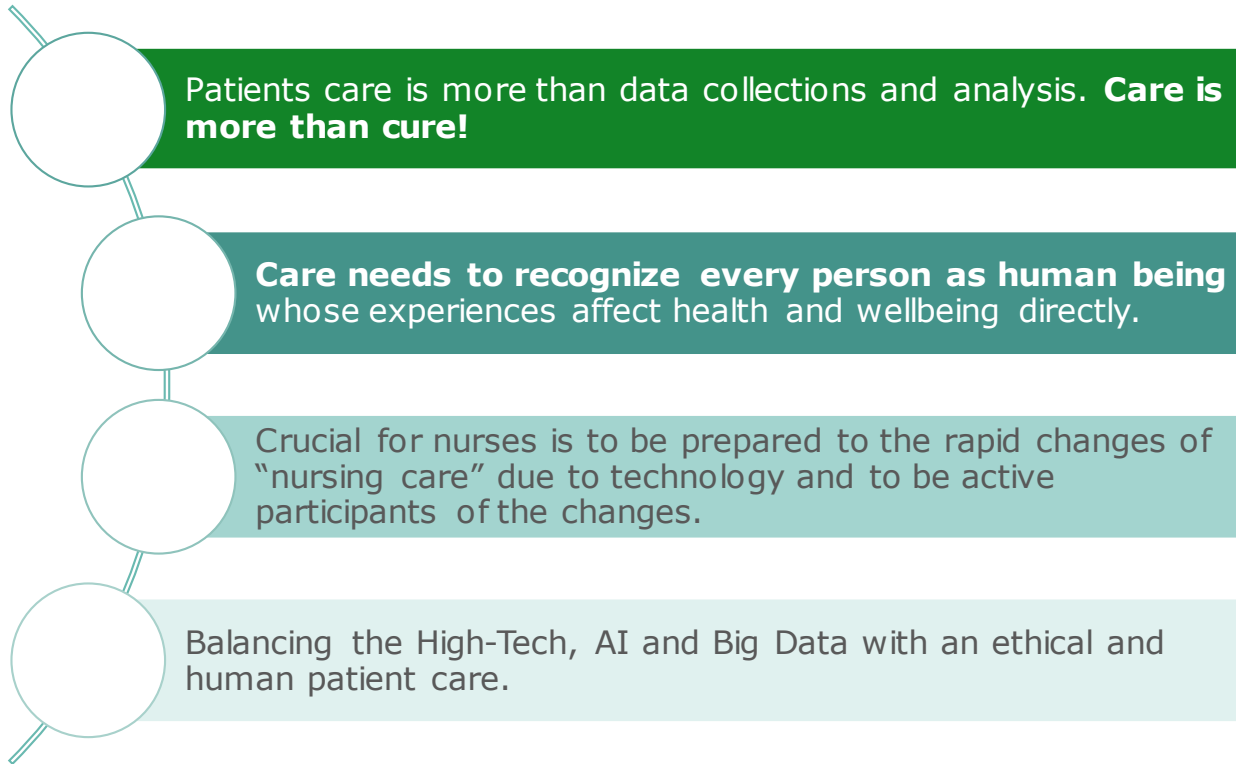
• Opportunities

- Sharing knowledge and experience
- Sharing best practice
- Sharing comprehensive data thanks to a multidisciplinary approach
- Evidence based quality care

Risks

- Confidentiality and Data Security
- Where are the data kept?
- Who has access to data?
- Data reliability strongly depends on data collection which can be affected by error and bias from human entry
- Dramatic change of caring for patients
- Risk of losing patients trust

Conclusions / Engagement



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