AUTOMATING NURSING’S KNOWLEDGE

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A Vision for Nursing

- Care plan linked with decision support
- Automated data collection
- Nursing data included in EHRs
- Enable best practice research
- Compare nursing service delivery models
What do we need to realise this vision?

- A standard approach
- A common language
- Ability to link data from different software applications
- Data sharing and comparing
- Ability to capture nursing knowledge
- Semantic interoperability
TERMINOLOGY IN CONTEXT

- ICN has produced the ICNP
- Standard terminology binding to all concepts

ISSUE

- Requires national governance
Key Features of Nursing’s knowledge

- Data reflect concepts
- Concepts are labelled, named, identifiable
- It’s not about standard terms
- Terms have meaning
- Meaning must be retained throughout the automated data flow lifecycle.
Electronic Health Record

Reference Model

- Represents high level EHR structure/framework

Data Types

- Structure data referring to EHR structural components

Constraint Models

- Represent knowledge objects’ scope where standard terminology (small data) is bound to concepts contained within each model
What does the nursing profession need to do?

- Model nurses’ knowledge
  - [this enables computerised knowledge processing]
- Validate and govern nursing’s knowledge objects – DCMs/Archetypes
- Participate with a well established international community online
**Nursing Profession Future Directions**

- Provide leadership
- Develop standard sets of nursing domain clinical content models
- Adopt Standard nursing terminology - ICNP
- Govern nursing knowledge
- Engage with CoNNO – all specialties
- Position statement – Nursing & eHealth

REFERENCES

- OpenEHR - http://www.openehr.org/
- An open domain-driven platform for developing flexible e-health systems
- The openEHR Clinical Knowledge Manager (CKM) is an international, online clinical knowledge resource

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