Towards an international framework for recommendations of core competencies in nursing and inter-professional informatics: the TIGER competency synthesis project

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Why informatics recommendations on a global scale?

- Technological developments have a global impact – also in healthcare.
- Health IT industry is increasingly marketing their products worldwide.
- EU seeks to increase the workforce mobility by harmonising skills.
- The EU and the USA signed a Memorandum of Understanding on further developing the health IT skills to fully utilise the potential of digital technology.
- Global recommendations help countries to learn from each other and to get a new perspective on the field.
TIGER – Technologie Informatics
Guiding Education Reform

TIGER advances the integration of health informatics to transform education and practice by:

• Enabling the clinical workforce to use informatics and technology to improve patient care


Comprises several components:

- Compilation of international case studies
- **Survey** on 24 core competencies to be rated for 5 roles: clinical nursing, quality management, nursing management, inter-professional coordination of care, IT management in nursing. 43 experts from 21 countries responded.
- Cooperation with the **German project KeGL** funded by bmbf.
- **Workshop** with more than 30 participants from 13 countries to discuss the survey results at NI2016 in Geneva
- **EU – US cooperation project** under the framework of Horizon2020 – starting on 1st Sept. 2016
# Top 6 Informatics core competencies

<table>
<thead>
<tr>
<th>Role/domain</th>
<th>Top 1</th>
<th>Top 2</th>
<th>Top 3</th>
<th>Top 4</th>
<th>Top 5</th>
<th>Top 6</th>
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</thead>
<tbody>
<tr>
<td><strong>Clinical nursing</strong> [n=41]</td>
<td><strong>Nursing documentation</strong> (94.4%)</td>
<td>Information knowledge management (82.2%)</td>
<td>Principles of nursing informatics (80.5%)</td>
<td>Data protection and security (80.0%)</td>
<td>Ethics and IT (79.5%)</td>
<td>Information communication systems (75.1%)</td>
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<td><strong>Quality management</strong> [n=41]</td>
<td>Quality management (96.1%)</td>
<td>Process management (86.5%)</td>
<td>Nursing documentation (84.4%)</td>
<td>Information knowledge management (83.2%)</td>
<td>Information communication systems (82.0%)</td>
<td>Principles of nursing informatics (80.2%)</td>
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<td><strong>Inter-professional coordination</strong> [n=41]</td>
<td>Data protection and security (85.9%)</td>
<td>Information knowledge management (85.4%)</td>
<td>Nursing documentation (83.4%)</td>
<td>Process management (83.2%)</td>
<td>Information communication systems (81.5%)</td>
<td>Ethics and IT (78.8%)</td>
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<td><strong>Nursing management</strong> [n=43]</td>
<td><strong>Nursing documentation</strong> (92.1%)</td>
<td>Principles of management (87.9%)</td>
<td>Strategic management and leadership (86.7%)</td>
<td>Quality management (85.1%)</td>
<td>Human resource management (84.4%)</td>
<td>Change management stakeholder management (84.2%)</td>
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<td><strong>IT management</strong> [n=41]</td>
<td><strong>Information communication systems</strong> (89.5%)</td>
<td>Principles of nursing informatics (89.5%)</td>
<td><strong>Data protection and security</strong> (89.0%)</td>
<td>IT risk management (86.8%)</td>
<td>Project-management (86.8%)</td>
<td>Process management AND Information knowledge management (86.1%)</td>
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</table>
Informatics core competencies: clinical nursing

Most of the competencies were rated as at least 50% relevant.
Informatics core competencies: quality management

Most of the competencies were rated as at least 50% relevant.
Towards Implementing a Global Competency-Based Nursing and Clinical Informatics Curriculum: Applying the TIGER Initiative

Presented by Ursula Hübner, PhD, Marion Ball, Ed D, FHIMAA, FCHIME, FACMI, Christel Anderson, MA, Polun Chang, PhD, Marisa L Wilson, DNSc, RN; CPHIMS Heimar Marin, RN, PhD, FACMI.

Clusters

1) Data and information
2) Data protection security, ethics
3) Information Exchange and Sharing
4) System life cycle

Participation

28 experts
13 countries

How to develop a framework out of this information (1)?

### Core Topics for Competencies

<table>
<thead>
<tr>
<th>Top ranking competencies</th>
<th>Prerequisite knowledge and skills</th>
<th>Fundamental knowledge</th>
<th>Procedural knowledge and skills</th>
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How to develop a framework out of this information (2)?

top ranking core competencies

country A

country B

country C

country D

country E

country F

case study

case study

case study

case study

case study

case study
Thank you for listening

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