



# Ordem dos Enfermeiros Portugal



## Nursing Information Systems and national policy: the case of the Nursing Minimum Data Set in Portugal

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**Nursing Information Systems and national policy:**



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# Overview

1. Ordem dos Enfermeiros
2. Regulation, NIS and national policy
3. One step forward, ...two to ...
4. Breaking news



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## 1. Ordem dos Enfermeiros



The **Ordem dos Enfermeiros** is a public association established in 1998, free and autonomous in the scope of its attributions, with juridical personality, independent of the State, competent authority and representative of nursing and midwifery graduates who practice in Portugal, in compliance with the principles of their constitution and the applicable legislation.



The main aim of the **Ordem dos Enfermeiros** is to promote the defence of the quality of nursing care rendered to the population, as well as to develop, regulate and control the practice of nursing and midwifery, guaranteeing that ethical and professional deontology rules are respected.



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## 2. Regulation, NIS and national policy

“Nurses deliver 80% of all the health care”

- Impossible to describe and verify the impact of nursing on healthcare for any population
- The visibility of nursing in statistics, indicators and official health reports is minimal to absent
- Nursing information systems are capable of providing important data for clinical decisions, quality assessment, management, education, research, and policy development



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## 2. Regulation, NIS and national policy

- Endorsement of ICNP<sup>®</sup> as “the” terminology for nursing care documentation
- Strategic direction: working group (Board of Directors) devoted to Nursing Information Systems
- Multi sectorial approach:
  - ...
  - Ministry of Health
  - ...



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## 2. Regulation, NIS and national policy

### Documents submitted to the Ministry of Health

- “Reference framework for the creation of nursing quality and productivity indicators” (July 2004);
- “Nursing information and documentation system: support for policy decision and guarantee of safety and quality in health care” (May 2005);
- “Nursing Information System” (NIS): basic design principles and principal technical-functional requirements” (April 2006)
- “Nursing Minimum Data Set and Indicators in Nursing Information System”. (January 2007)



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## 2. Regulation, NIS and national policy

### “Nursing Information System” (NIS): basic design principles and principal technical-functional requirements” (April 2006)

#### Architectural Principles

- Integrated, interoperable, state of the Art
- Use of ICNP®
- Applicability to all contexts of care
- Minimum data sets

#### Technical-Functional Requirements

##### A. Content and Criteria

##### **Content:**

Assessment  
Nursing Diagnoses,  
Interventions,  
Outcomes

#### Technical-Functional Requirements

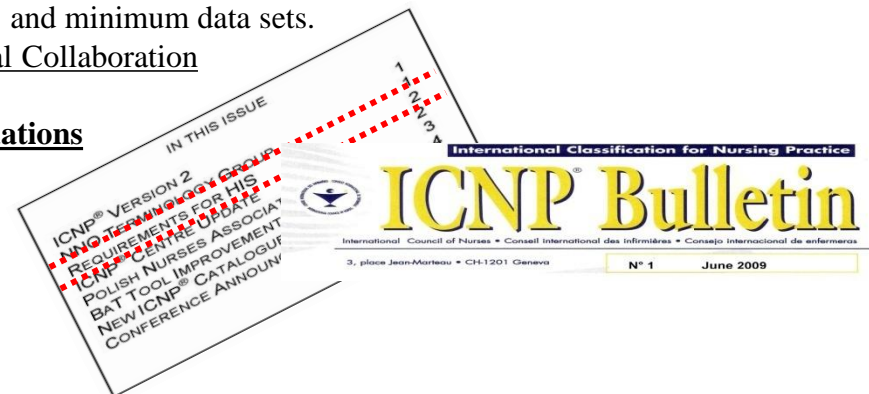
##### A. Content and Criteria

##### **Criteria for NIS Structure**

- ICNP® as the reference terminology;
- Natural language and classification system articulation;
- Reference integrity between the elements of nursing documentation;
- Care unit content specification and organization; and,
- Ability to populate data sets for patient classification and care intensity, and minimum data sets.

##### B. Inter-institutional Collaboration

#### Final Recommendations







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## 2. Regulation, NIS and national policy

### **“Nursing Minimum Data Set and Indicators in Nursing Information System”. (January 2007)**

The aim of this document is to define the general guidelines for using the model, and the content and comparability requirements for the Portuguese Nursing Minimum Data Set (NMDS) that would make possible the automatic creation of a set of nursing quality indicators for different levels and users.

#### Research study

- Filipe Pereira (Doctoral thesis)
- S. João Higher Nursing School (now, Porto Higher Nursing School )
- Northern Regional Administration of Health



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## 2. Regulation, NIS and national policy

### “Nursing Minimum Data Set and Indicators in Nursing Information System”. (January 2007)

- (1) the framework and the assumptions on which the proposed NMDS is based;
- (2) the organization of quality and epidemiological-type indicators
- (3) recommendations for implementing and developing the NMDS

**Indicator:** *Designation; Definition; General formula*

#### **Structure**

- Nursing care hours provided per patient per day (NHPPD)
- Other indicators included in the patient classification system
- Nursing satisfaction

#### **Process**

- Effectiveness rate of risk diagnosis

#### **Outcome**

- Effectiveness rate in prevention of complications
- Positive changes in status of nursing diagnoses (actual)
- Rate of possible/expected effectiveness gains
- Users' satisfaction with nursing care

#### **Epidemiological indicators**

- Incidence rates
- Prevalence rates
- Rates of relative frequency



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### 3. One step forward, ...two to ...

-Ministerial change ...

### Software certification process

### Bank of expert nurses

- Criteria defined

-Partnership in negotiation

### NIS monitoring

- Group / five regions

- Matrix developed

- First data collected

### Electronic Health Record

- New working group

- Three nurses (OE)

... September 2009: General elections...



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### 4. Breaking news

#### Orientação 3.1 Identificação de Standards

rse  
pt

1. O RSE adoptará o ICD10 como terminologia clínica.
2. Cada entidade adoptará a terminologia clínica por si seleccionada:
  - ICD 9, ICD 10, ICPC, SNOMED, CNVRAM ou outras classificações.
3. O trabalho inerente ao agrupador de GDHs que incorpora o ICD10 terá de ser assumido centralmente pela ACSS.
4. Prática de enfermagem estabelece-se a norma ISO: Integração de um Modelo de Terminologia de Referência para a Enfermagem (ISO 18104, 2003) e adopta a classificação CIPE 1.1 como standard.
5. Orientações alinhadas com tendências europeias, e com os métodos de

SG3

Ontologias e terminologias

For nursing practice it is established the ISO norm 18104: 2003 (Integration of a Reference Terminology Model for Nursing) and it is adopted ICNP 1.1 as standard





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### 4. Breaking news

#### Orientação 3.2 Harmonização de Standards

1. A submissão da informação para o RSE terá de ser realizada em ICD10 e CIPE 1.1.
2. A conversão dos dados para o ICD10 e CIPE 1.1 será da

Information to the EHR (electronic health record) must be submitted using ICD10 and ICNP 1.1

certificação dos sistemas.

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Ontologias e terminologias



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## 4. Breaking news

Orientações 4.2, 4.3

### Articulação com a CNPD e Ordens Profissionais

rse  
pt

1. Envolvimento directo da CNPD no desenvolvimento do Projecto RSE, tendo em vista a concertação de pontos de vistas e a adopção de soluções técnicas e normativamente viáveis.
2. Continuidade e alargamento do envolvimento e colaboração das diversas Ordens Profissionais com interesse directo na temática do RSE, de forma a garantir que as questões associadas às respectivas práticas, códigos de conduta e deontologia são tidas na devida conta nas soluções que se vierem a definir e implementar.

SG4

Segurança, Privacidade  
Ética e Aspectos Legais

Reinforcement of the involvement of the national regulators with interest in the EHR, in order to safeguard professional practice, codes of conduct and deontology





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# Thank you

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