How the decision making process is made in Radiology: a TA approach

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Introduction

- HTA – importance

- Portugal does not have HTA tradition (except for pharmaceutical products)

- Medical Devices - There are currently no effective methods for regulating the distribution (private sector)

Lack of research in the field  Thesis importance
Introduction

- Medical Device - Magnetic Resonance

- WHY?
  - Recent medical device
  - Promising future
  - Large benefits for diagnose/Therapeutic
  - Relevancy due to the current situation (NHS)
  - Lack of TA studies
Introduction

- Properties
  - Impacts
    - Effects

- Direct, intended consequences

- Indirect, unintended consequences
Introduction
Methods

**WHO ???**

**HOW ????? WHEN ???**

**How many ??? WHERE ???**

stakeholders

Decision Making Process

↓

Acquisition

Medical Device - MRI
Analysis Methods

1. Characterization Form

Baseline Information on MRI installed capacity

✓ Data collection (Maia, 2011)
✓ Contact with companies
✓ Document research

- Web pages from Hospitals, Clinics...
- International agencies reports (HTA), WHO, OECD, EUnetHTA...
- National agencies reports DGS, ACSS, ERS...
Preliminary Results

1. Technological Park - MRI

A. Number and Characterization of MRI Units

B. Geographic Distribution
## Preliminary Results

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Preliminary Results

Geographic Distribution

- Public Sector
- Private Sector
2. Questionnaire “Competences”

(Maia, 2011)
Preliminary Results

3. Questionnaire
“Decision Making Process”

Total of 137 MRI equipment

Total of 126 Entities

78 entities contacted

64 on private sector

14 on Public Sector
Methods


Radiology Department

Respondents

- Radiographer
- Radiologist (Physician)
- Technical Assistant (Office)
- Operational Assistant
2. Questionnaire “Competences”

Σ116 responses
Preliminary Results

Σ116 responses

- Radiographer
- Radiologist
- Technical Assistant
- Operacional Assistant
- Average
### 3. Questionnaire

**“Decision Making Process”**

Q1 – What was the **strongest reason** for the technology acquisition

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Q14 – Regarding the decision made for the acquisition of the MRI equipment, what is your **satisfaction perception**, under the perspective of the following?

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**Adminstration**

**Clinical Leadership**

**Technical Leadership**

**Clinical Staff**

**Technical Staff**

**Very Satis.**
3. Questionnaire
“Decision Making Process”

Q15 - Were you the last decision maker throughout the process?

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</table>

19
So far.....

- Finished = 16
- Refused = 3
- Incomplete = 20
- Waiting Auth. = 52
- Not contacted = 49
Remarks

Chronogram

2011

Seleção das Unidades / Serviços
Imagiologia

Contactos com Unidades / Serviços

Pré-Teste

Apresentação de dados preliminares (1)

Publicação (5)

Apresentação de dados preliminares (2)

Publicação (6)

2012

Aplicação dos Questionários
Realização de Entrevistas

Recolha dos questionários

Análise dos dados

Apresentação de dados preliminares (3)

Apresentação de dados preliminares (4)

Apresentação de dados preliminares (5)

2013

Apresentação de dados preliminares (6)

2014

Entrega da tese

Publicação (7)

Publicação
Remarks

Limitations...

- Inexistence of MRI technological park
- Companies list of MRI localization not updated
- Time to respond to invitation to participate
- Time to schedule the interview
- Time to have all questionnaires answered
- Working – Student - contacting hours
  - lack of time
(1) 2011 - Maia, Maria J. F. Competences for decision-making in Radiology: a technology assessment approach. (with António B. Moniz) APSIOT, UAL, Lisbon, Portugal.

(2) 2011 - Maia, Maria J. F. Technology Governance in Radiology: the example of Magnetic Resonance Imaging, PhD Conference on Technology Assessment, FCT-UNL, Monte de Caparica, Portugal.


(5) 2011 - Maia, Maria J. F. Decision-making process in Radiology: the magnetic resonance example in the TA context, Enterprise and Work Innovation Studies, vol. 7, IET, pp. 73 - 90


(7) 2012 – Maia, Maria J. F. "Technology governance in radiology: the example of magnetic resonance imaging," IET Working Papers Series02/2012, Universidade Nova de Lisboa, IET-Research Center on Enterprise and Work Innovation, Faculty of Science and Technology.
Thank You!

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