



# Il modello ortopediatrico ed il percorso dell'anziano con frattura di femore

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## Content of the presentation

- What do we mean by innovation in the health care system?
- What do we know about determinants of adoption and diffusion of innovations?
- The research portfolio in Emilia Romagna



## What is “innovation” ?

- New technologies
- New indications of technologies already available
- New configuration of health services and new arrangements/modalities of care delivery



## The types of “innovation”

- Exogenous (drugs, medical devices , diagnostic and therapeutic technologies)
- Endogenous (changes in the organisational process and any intervention aimed at improving quality of care)



## “Exogenous”

- Incomplete information on benefits, costs and organisational impact
- Limited generalizability of available information
- HTA done late in the process and mostly retrospective



## “Endogenous”

- Aimed at improving access, quality and efficiency
- Keeping services sensitive to the health needs and to technological changes (which are not necessarily true innovation)



## Determinants of adption and diffusion of innovation

- *Intrinsic characteristics*

1. Relative advantage
2. Compatibility
3. Low complexity
4. Trialability
5. Observability



## Determinants of adoption and diffusion of innovation

- *Relationships between potential users*

1. Opinion leaders
2. Champions
3. Boundary spanners
4. Change agents



## Determinants of adoption...

- *Prerequisites that organisation must have*

- Availability of technical resources
- Receptive to knowledge sharing
- Availability of receptive health professionals



## The research portfolio of Regione Emilia Romagna

- Research and innovation as integral part of the mission of the health service (Regional Law in 2004)
- Modernisation Fund (AUSL and Aree Vaste)
- Research and Innovation program (PRI ER) since 2005
- Programma “Regione Università” (PRU) since 2007
- Observatory of Innovation (ORI) since 2008



## PRI ER projects

- Oncology
  - Methods to assess appropriate use of new drugs
  - Innovation in radiotherapy
- Cerebrovascular disease
  - Implementation of the stroke care model
- Intensive care
  - Humanisation and organisation of care
- High cost diagnostic technologies
  - Multislice Cat Scan in cardiology
  - PET in Oncology earch methods
  - Tomotherapy



## Programma Regione Università

- Innovative research
  - Oncology
  - Neuroscience
  - Advanced diagnostic technologies
  - Transplant medicine
- Health services research
  - Comparative trials
  - Cost effectiveness
  - Adoption plans for new tecnologies
- Research capacity
  - Masters in research methods
  - Development of clinical networks