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# -NEW TECHNOLOGIES IN URUGUAY- TECHNOLOGY ASSESSMENT AS A TOOL FOR DECISION-MAKING IN A NEW HEALTH CARE SYSTEM

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- The Integrated National Health System and the Introduction of New Technologies
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# About Uruguay



<b>Infant mortality</b>	<b>7,71</b>
<b>Crude mortality rate X 1.000 inhab.</b>	<b>9,39</b>
<b>Fertility</b>	<b>1,98</b>
<b>% younger than 15 years old</b>	<b>22,6</b>
<b>% older than 65 years old</b>	<b>13,6%</b>
<b>Life expectancy</b>	<b>76,2</b>
<b>National Health budget (USD millions)</b>	<b>2.410</b>
<b>GDP health</b>	<b>7,5%</b>



# *About Uruguay*



IN 2007:

- Health System Reform Initiative.
- Establishment of an Integrated National Health System, main objectives at a population level are:
  - Improvement of the equality of access to health care services
  - Timely response to the population health needs
  - High quality health services
  - A highly efficient health system



# *The Integrated National Health System and the Introduction of New Technologies*



## **Specific Objectives:**

- Incorporation of a Health Technology Assessment according to the country's health needs
  - Preventing the duplicity of services
  - Prioritizing decentralization of services from the capital Montevideo to the rest of the country
- Health Technology Assessment approved by the Ministry of Public Health, based on the latest scientific evidence of its medical use, safety, and geographical location.



# ***Ministerial requirements for registry of new technology***



- The evaluation of Health Technology Department performs evidence-based assessments for the registration of the following technologies by health care institutions.
  - The latest technological health equipments
  - All medical services of medium and high complexity

## *The latests technological health equipments*

- Computerized axial tomography
- Gamma camera
- Bone Density
- Cobalt radiotherapy
- Nuclear Magnetic Resonance
- Electrom Linear Accelerator
- Mammography
- Cardiopulmonary bypass pumps
- Digital Angiography
- Anesthesia equipment
- Image Amplifier, Arc "C"
- Lithotripter
- Radiology Equipment
- Automated analyzer
- Haemodialysis equipment
- Ultrasound (including doppler ultrasound)



# *All medical services of medium and high complexity*



- Surgical Block
- Intensive Care Unit
- Maternity Unit
- Imaging Department
- Department of Clinical Laboratory
- Emergency Department Unit
- Specialized Medical Centres (cardiology, haemodialysis, neurology)
- Primary Care Service
- Paramedic Response Unit





# ***NEW TECHNOLOGY INFORMATION TOOL***



- The primary source considered in the design of our Department's technology evaluation form was the form used by the Andalusian Agency of Technology Assessment \*
  
- Information provided by the applicant
  - Health Service Questionnaire
  - Medical Equipment Questionnaire.
  - Relevant information of the final user: number of users, Care service level and Complexity.

\*"Guía de Adquisición de nuevas tecnologías (GANT) de la Agencia de Evaluación de Tecnologías de Andalucía"

# ***NEW TECHNOLOGY INFORMATION TOOL, cont.***

## 5 Modules:

1. *MODULE A:* Description of new equipment or service
2. *MODULE B: JUSTIFICATION:* demo-epidemiologic data, of final user population, advantages, disadvantages and expected results
3. *MODULE C:* Evidence of Effectiveness, security, and costs backed up by high level scientific publications
4. *MODULE D:* Expected impact of new technology/service and foreseen changes at institutional level. Foreseen commercial link between applicant and institution
5. *MODULE E. ECONOMIC EVALUATION:* Economic and financial arguments supporting the viability of the investment. Comparison with the technology/service available at present.

# Requests for Medical Equipment

Medical Equipment	n
Image Amplifier, Arc "C"	3
Hyperbaric Chamber	2
Anaesthesia equipment	4
Electron Linear Accelerator	3
Digital Angiography	1
Cardiopulmonary bypass pump	1
Cobalt radiotherapy	1
Robotic Surgery Equipment	1
Bone Density	1
Ultrasound	3
Gamma camera	1
Mammography	3
Radiology Equipment	9
Nuclear Magnetic Resonance	6
Computerized Axial Tomography	12
Positron emission tomography	2
<b>TOTAL</b>	<b>53</b>

Requests 2009-  
2011

# Request Health Care Services

Care Service	N
Intensive Care Unit	3
Hyperbaric Department	1
Haemodialysis Department	2
Surgical Block	1
Department of Clinical laboratory	1
Assets acquisition	2
Neurosurgery Department	1
Department of High Complexity Cardiology	1
Imaging Department	1
Primary Care Service	4
<b>Total</b>	<b>17</b>

Requests by area  
2009-2011

# *Request Health Care Service and Medical Equipment*

Requests by geographical  
location 2009-2011

	<b>Montevideo</b>	<b>Rest of the country</b>	<b>Total</b>
<b>Health Care Service</b>	4	14	18
<b>Medical Equipment</b>	30	22	52
<b>Total</b>	34	36	70

# Conclusions HTA

- Innovative approach to the assessment of new technologies
  - It prevents the duplication of services and equipments
  - It promotes the complementary utilization of services and equipments amongst institutions
  - A better use of the Integrated Healthcare System's financial resources by centralizing the assessment of technologies
  - High quality, efficient, and timely delivery of health care
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**THANK YOU**

