

Hospital Based Health Technology Assessment: a tool for clinical management and sustainability.

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Advancing Global
Health & Health Care

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39th World Hospital Congress

Introduction: The dilemma for hospital decision-makers

Fixed budget + competing technologies



Introduction: How to make the best decision?

Hospital based Health Technology Assessment (HB-HTA)



doctors



National/International Documents
(i.e. Health Technology Assessment)



Companies



Introduction: What does HB-HTA means?

Hospital-based Health Technology Assessment (HB-HTA) means performing HTA activities tailored to the **hospital context** for managerial decisions.

It includes the processes and methods used to produce HTA reports in and for hospitals.

Definition developed by the partners of AdHopHTA



Experience from two HB-HTA models

Hospital Clinic Provincial Barcelona

CLÍNICA
BARCELONA
Hospital Universitari



- ✓ High Tech University Hospital
- ✓ Beds: 600
- ✓ Professionals: 4 000 (600 physicians)
- ✓ Budget: € 460 million
- ✓ Organization: 9 Clinical Institutes + 2 Trans

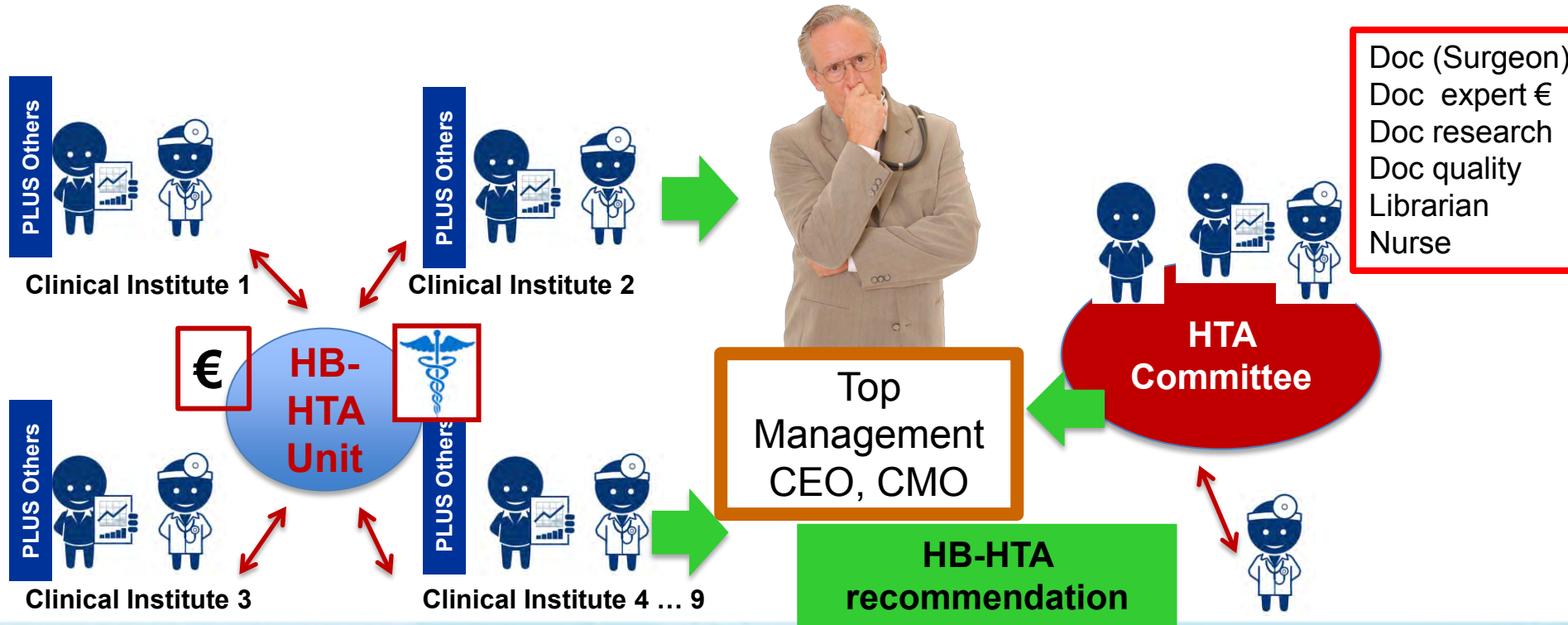
Parc Sanitaria St Joan de Dèu
General Hospital

Parc Sanitari
Sant
Joan
de Déu 



- ✓ Community Hospital (teaching)
- ✓ Beds: 292
- ✓ Professionals: 800 (150 physicians)
- ✓ Budget: € 47 million
- ✓ Organization: standard

Experiences: HTA organization



Experiences: HTA Tools and Methods



INTRODUCTION TO MINI-HTA
– a management and decision support
tool for the hospital service

2005

Questions 1 - 3: Introduction

Questions 4 -12: Technology

Questions 13 -14: Patient

Questions 15 -20: Organisation

Questions 21 - 26: Economy

Methods

- Review Scientific Evidence
- Analysis of Hospital Data
- Economic Evaluation:
 - Cost-effectiveness
 - Cost-Utility
 - Cost-minimization
 - Cost analysis
 - Budget Impact Analysis
- Qualitative research

Experiences: Examples of Health Technologies Assessed



Health Technology Assessed

Capital Medical Equipment:

- Robot Da Vinci (prostate)
- LIAC for IORT (breast cancer)

Medium size Medical Devices:

- Left ventricular assistive device (heart)
- Autologous platelet gel (TKR)

Small size Medical devices:

- Re-usable electro-surgical device for bipolar vessel sealing

Diagnostic tests:

- Point of Care Test for Flu diagnosis

Health Technology Assessed

Botulinum Toxin (Dupuytren's disease)

Sterilization bell (Pharmacy)

VHIT (vertigo syndrome)

Negative Pressure Wound Therapy

Experiences: HB-HTA Impact

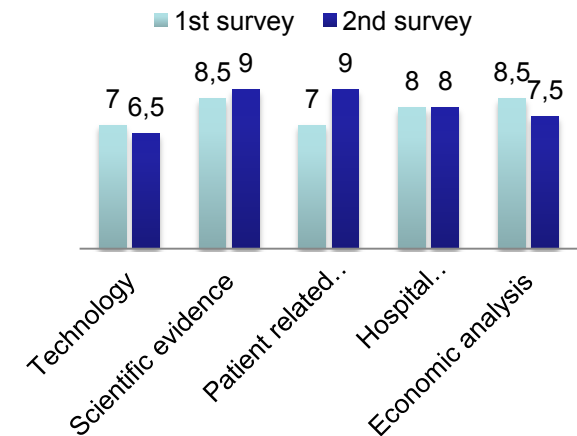


Net Present Value (N=23 HTs):

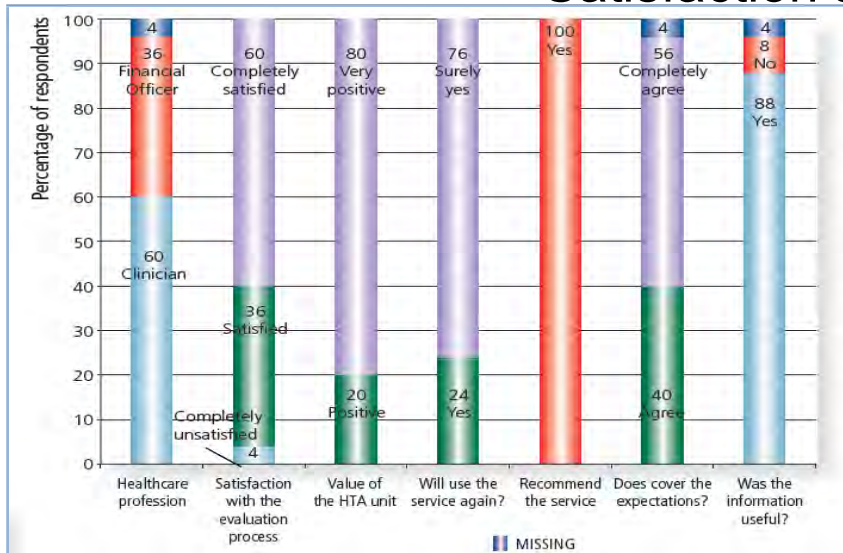
- ❖ € 4 100 000 savings
- ❖ € 13 600 000 avoided waste



Before-After Study



Satisfaction survey



• High Satisfaction Reported by Clinicians (informal communication)

Setting up International Standards: AdHopHTA



Body of Knowledge



Handbook



Networking HB-HTA



Toolkit



Database HB-HTA Reports

Setting up International Standards: AdHopHTA

7 Hospitals

Hospital CLINIC de Barcelona (ES) - coordinator
A. Gemelli University Hospital (IT)
Odense University Hospital (DK)
Centre Hospitalier Universitaire Vaudois (HE)
Hospital District of Helsinki and Uusimaa (FI)
Tartu University Hospital (EE)
Ankara Numune Training and Research Hospital (TU)

2 HTA Agencies

Ludwig Boltzmann Institute for HTA (AT)
Norwegian Knowledge Centre for the Health Services (NO)

1 Business school

IESE Business School (ES)

Participants

385

from 20 different countries



Setting up International Standards: AdHopHTA Handbook



THE AdHopHTA
HANDBOOK

A HANDBOOK OF
HOSPITAL-BASED
HEALTH TECHNOLOGY
ASSESSMENT

Information and knowledge for
decision-making on managing
technology at hospital level through
the use of hospital-based Health
Technology Assessment



A HANDBOOK FOR HOSPITAL-BASED HEALTH TECHNOLOGY ASSESSMENT

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Guiding principles
Good Practice



9

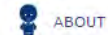
Core guiding
principles

Setting up International Standards: AdHopHTA Toolkit



Welcome to the toolkit
for hospital-based Health Technology Assessment (HB-HTA)

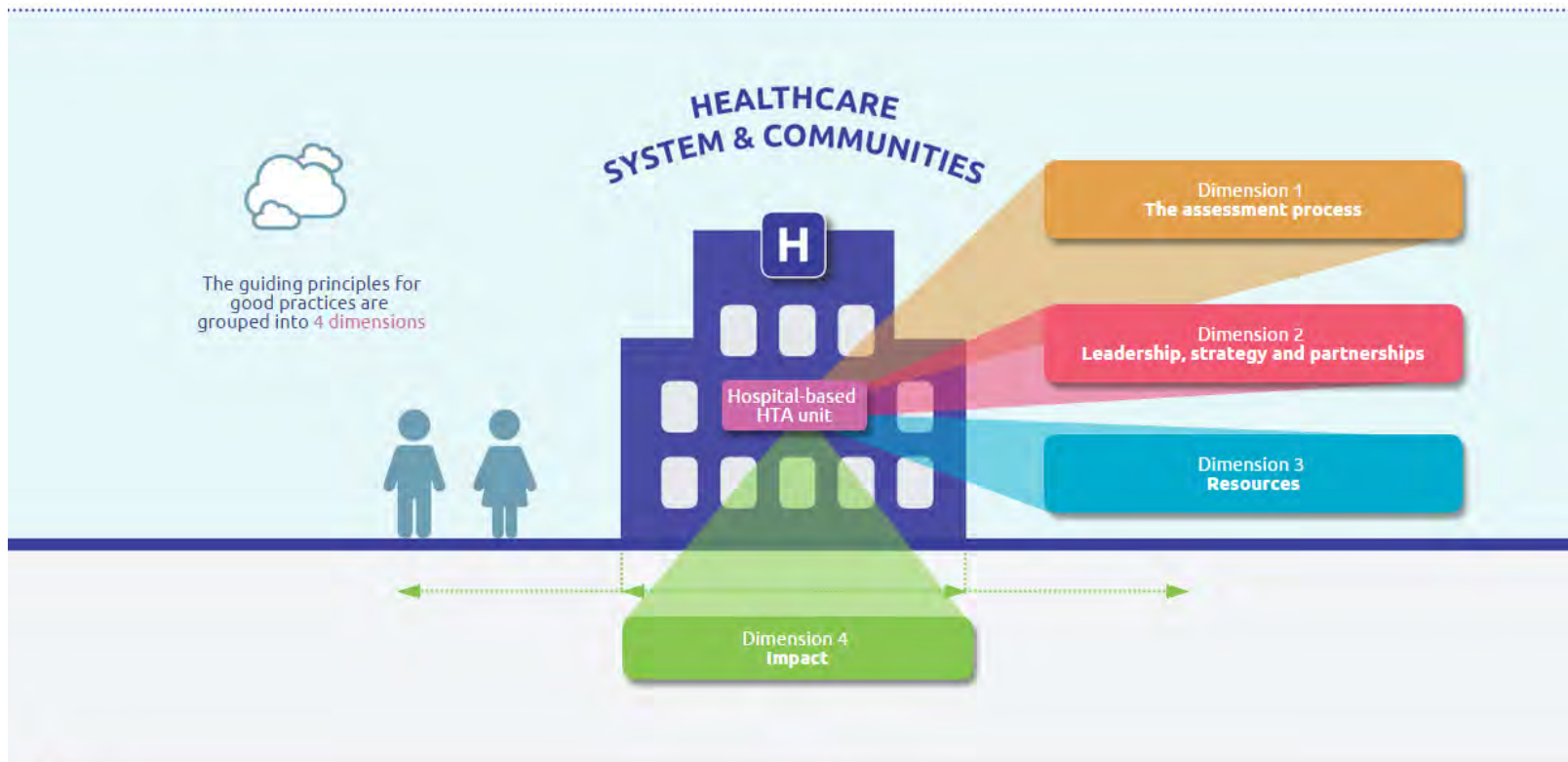
Guidance and tools facilitating pragmatic application of guiding principles for good practices in HB-HTA units.
This toolkit is based on the HANDBOOK for HB-HTA developed by the AdHopHTA project.



ABOUT



USE POLICY



Setting up International Standards: AdHopHTA Database

219
Entries
HB-HTA
reports

Database Search

Fulltext Search Browse Database Help

Search

Search Show All

Examples: lungs AND (lbi-hta OR chuv), system AND ucsc, robot* 2012

Filter by organisation: +

Filter by end of project/hta:

(-) 2014

- March 2014 (19)
- April 2014 (18)
- February 2014 (18)
- June 2014 (17)
- September 2014 (14)
- May 2014 (13)
- October 2014 (12)
- January 2014 (11)
- July 2014 (11)

Show more

Filter by type of technology: +

Filter by record status: +

Filter by mesh: +

Title	Organisation	End of Project/HTA	Record Status	Type of Technology
Drug-eluting stents for peripheral artery disease	LBI-HTA	2014-07	Published	Therapeutic device
Observation unit for patients with COPD in non-invasive ventilation treatment	OUH	2014-12	In progress	Other
Percutaneous left atrial appendage (LAA) closure to prevent thromboembolic events in patients with atrial fibrillation- update	LBI-HTA	2014-07	Published	Therapeutic device
Exhaled nitric oxide (FENO) in the diagnosis and monitoring of treatment effect of asthma.	MUMM	2014-10	In progress	Diagnostic device
Implantation of endobronchial valves in patients with emphysema- update	LBI-HTA	2014-07	Published	Therapeutic device
Cytoreductive surgery followed by hyperthermic intraperitoneal chemotherapy for peritoneal carcinomatosis	LBI-HTA	2014-07	Published	Therapeutic device
Stereotactic and robot-assisted radiofrequency ablation for liver carcinomas and colorectal liver metastases	LBI-HTA	2014-07	Published	Therapeutic device
OSNA	FCRB	2014-01	Published	Diagnostic device
Rapid-deployment aortic valve replacement	CHUV	2014-07	Published	Diagnostic device
Indocyanine green (ICG) lymphography in imaging diagnosis of secondary lymphedema	CHUV	2014-07	Published	Diagnostic
Arthroscopic hip surgery	CHUV	2014-04	Published	



4 Facts from Experience for Promoting HB-HTA in Hospitals

- ✓ HB-HTA separates the wheat from the chaff in new technologies based on scientific knowledge and hospital information
- ✓ HB-HTA allows you to make better informed investment decisions
- ✓ HB-HTA answer the questions relevant for an individual hospital's HT decisions
- ✓ HB-HTA underpins better investment decisions that improve quality of care and save money to hospitals



THANK YOU! / GRACIES!



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www.adhophta.eu