

HEALTH TECHNOLOGY ASSESSMENT AS A TOOL FOR DECISION MAKING AT CENTRAL AND LOCAL LEVELS

Medical devices at local levels

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making the difference in medication

Conflict of interest

Nothing to disclose

Self assessment questions

1. Is hospital-based HTA useful for all types of medical devices?
 - A. Yes
 - B. No

2. Mini-HTA can be defined as a decision support tool using a checklist/form designed for a short and rapid assessment.
 - A. True
 - B. False

3. Is it possible to combine different models of hospital-based HTA?
 - A. Yes
 - B. No

Learning objectives

- Identify the specificities of medical devices and their consequences on decision making at local level

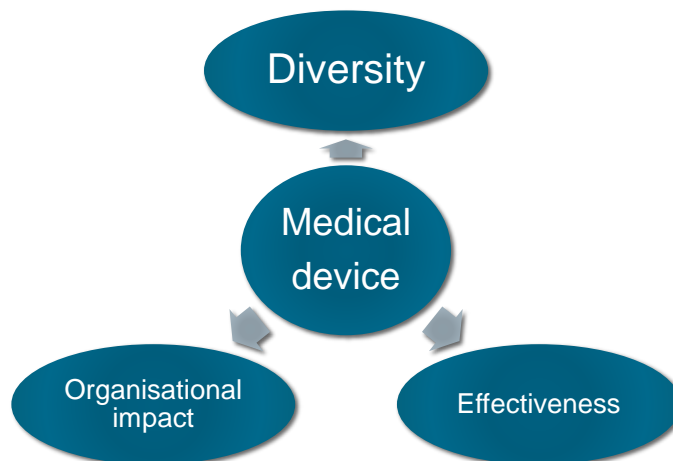
- Categorize the existing models of hospital-based health technology assessment

- Apply a model of hospital-based health technology assessment adapted to your resources

The real life



Specificities of medical devices



Diversity



Effectiveness

- **Device classes**

- Class I = self-certification
- Class IIa, IIb and III = notified body

CE

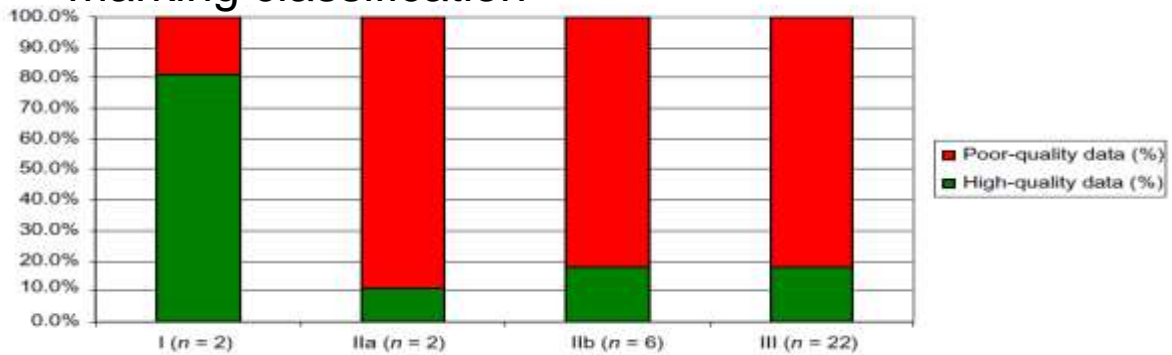
- **Class III and implantable devices**

- Clinical investigations shall be performed unless it is duly justified to rely on existing clinical data



Effectiveness

- Level of evidence in clinical studies by CE marking classification



Boudard, A., Martelli, N., Prognon, P., & Pineau, J. (2013). Clinical studies of innovative medical devices: what level of evidence for hospital-based health technology assessment?. *Journal of evaluation in clinical practice*, 19(4), 697-702.

Organisational impact

Reusable flexible
intubation scope
VS
Single use flexible
intubation scope

Example



Hospital-based HTA (HB-HTA)

Why hospitals do not always use reports from national HTA agencies ?

Timing

Scope

Few reports on medical devices

Hospital-based HTA (HB-HTA)



HTA
METHODOLOGY



LOCAL DATA



HB-HTA
REPORT

Models of hospital HTA

Individual

Ambassador model

Mini-HTA

Group

Internal committee

HTA unit

Models of hospital HTA

Ambassador model

Mini-HTA

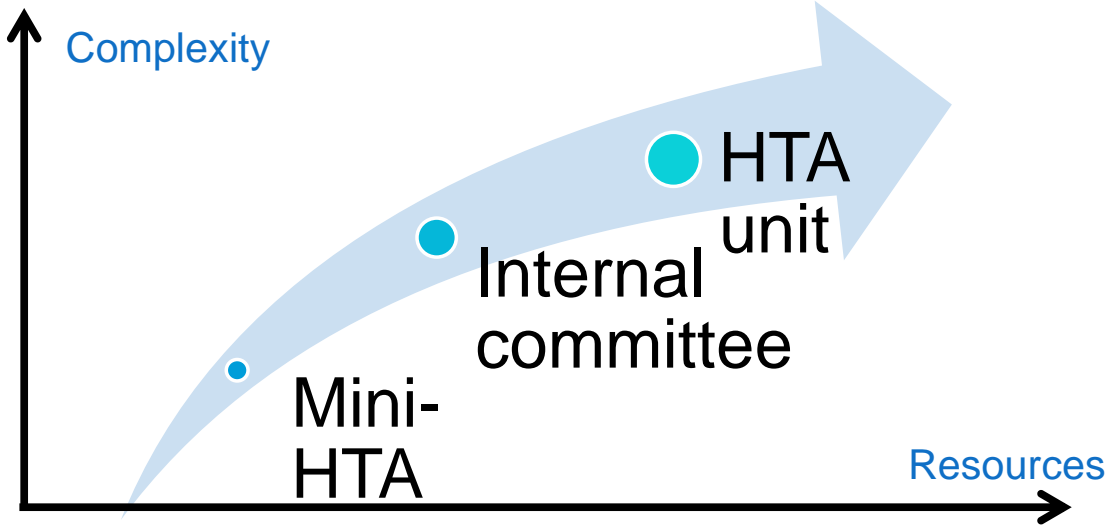
Clinical practice

Decision-making

Internal committee

HTA unit

Models of hospital HTA



Mini-HTA



TECHNOLOGY

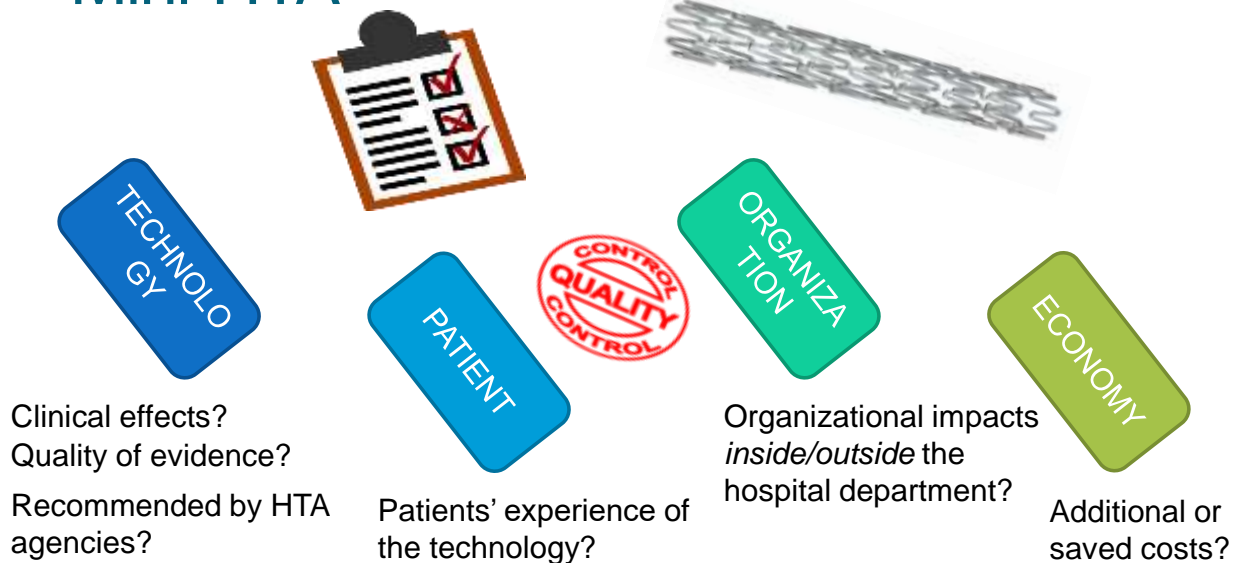
PATIENT

ORGANIZATION

ECONOMY

~ 25-30 questions

Mini-HTA



Mini-HTA

- Introduction to mini-HTA a management and decision support tool for the hospital service 2005
 - The Danish Centre for Evaluation and Health Technology Assessment
 - <http://www.sst.dk/~media/47C62A769EBC4E80A153F986C5348F55.ashx>
- The AdHopHTA handbook 2015 – mini-HTA template:
 - <http://www.adhophta.eu/handbook>



Internal committee



Multidisciplinary

1



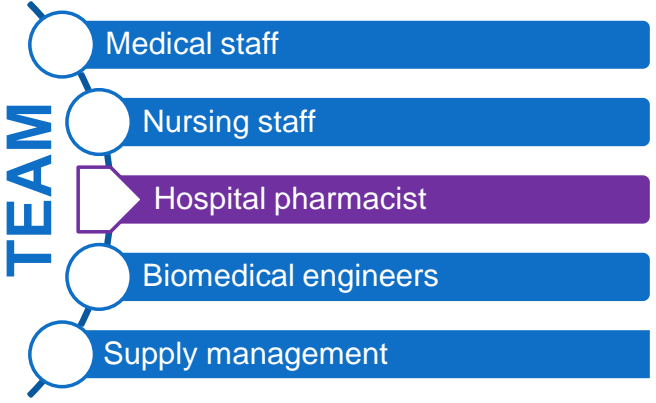
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3



Internal committee



Communication

Planning

Project leader

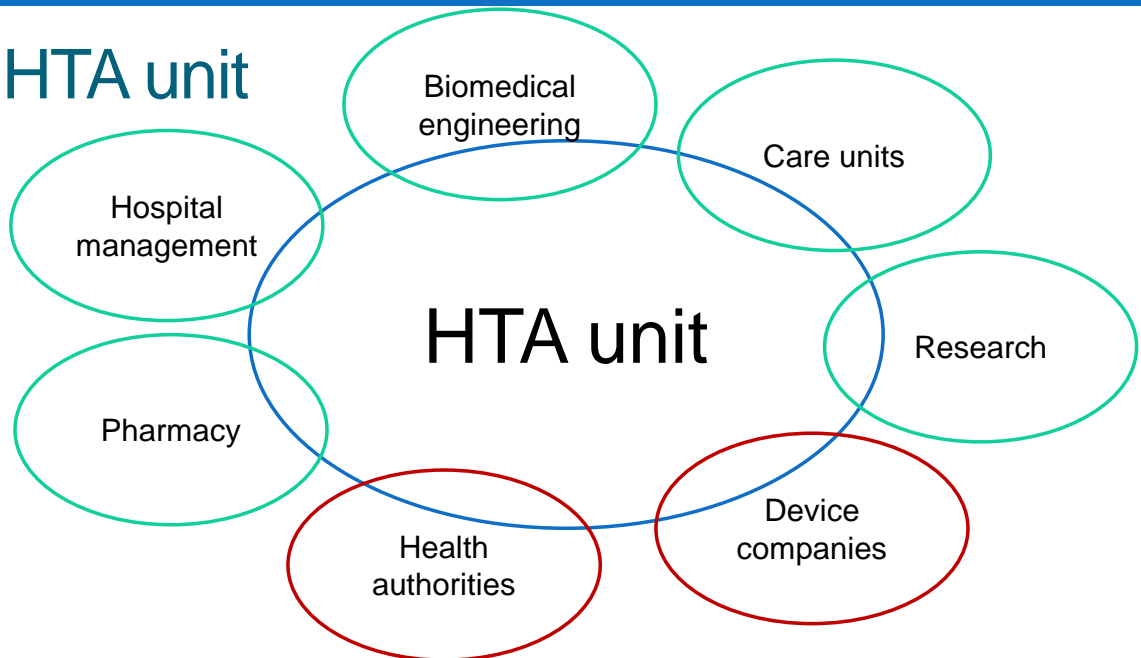
Martelli, N., Lelong, A. S., Prognon, P., & Pineau, J. (2013). Hospital-based health technology assessment for innovative medical devices in university hospitals and the role of hospital pharmacists: learning from international experience. International journal of technology assessment in health care, 29(02), 185-191.

HTA unit

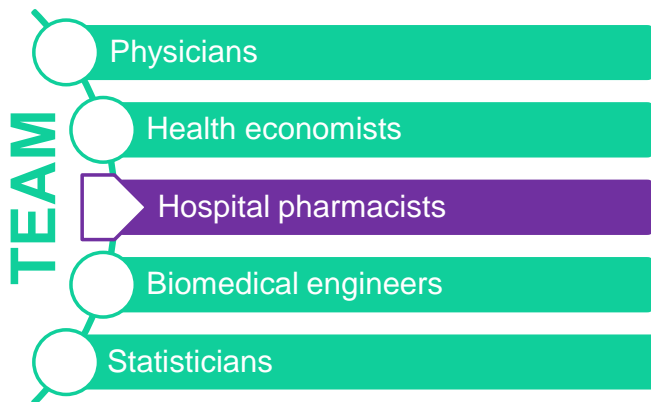


McGregor, M., & Brophy, J. M. (2005). End-user involvement in health technology assessment (HTA) development: a way to increase impact. *International Journal of Technology Assessment in Health Care*, 21(02), 263-267

HTA unit



HTA unit



HTA unit

- The AdHopHTA handbook 2015 – mini-HTA template:
 - <http://www.adhophta.eu/handbook>
- Catananti, C., Cicchetti, A., & Marchetti, M. (2012). Hospital-based health technology assessment: The experience of Agostino Gemelli University Hospital's HTA Unit. *Italian Journal of Public Health*, 2(2).



Example: Leadless pacemaker



1



2



3

Example: Leadless pacemaker

1



Nicolas



3 months



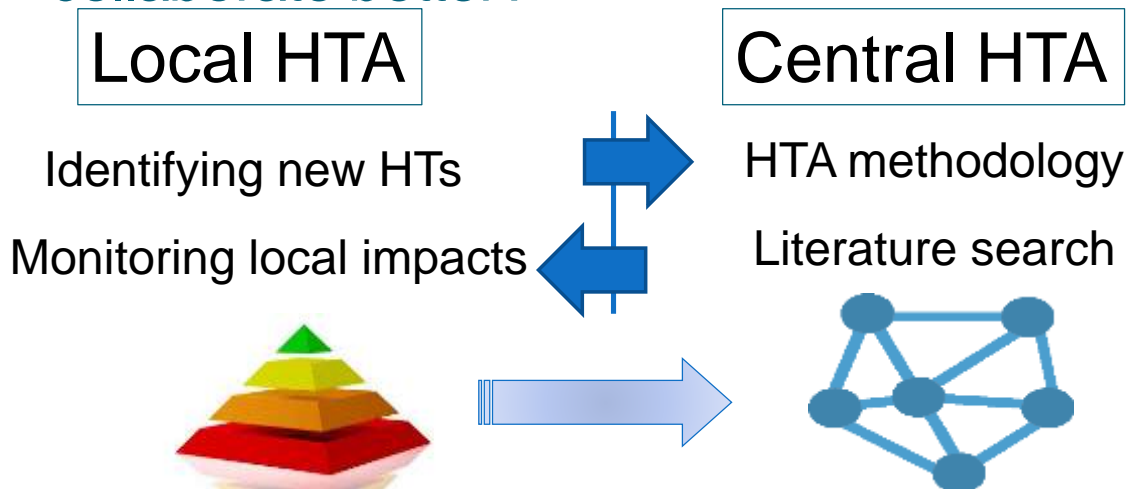
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2



Local HTA - central HTA: how can we collaborate better?



Halmesmäki, E., Pasternack, I., & Roine, R. (2016). Hospital-based health technology assessment (HTA) in Finland: a case study on collaboration between hospitals and the national HTA unit. *Health Research Policy and Systems*, 14(1), 25.

Self assessment questions

1. Is hospital-based HTA useful for all types of medical devices?

NO

2. Mini-HTA can be defined as a decision support tool using a checklist/form designed for a short and rapid assessment.

TRUE

3. Is it possible to combine different models of hospital-based HTA?

YES

Take home messages

1. Hospital pharmacists can have a key role in Hb-HTA.
2. No universal HB-HTA model. So make your own!
3. Adopt a multidisciplinary approach as much as possible!

Thank you for your attention!

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References

- Vestergaard, M., Ehlers, L., Kidholm, K., Holt, P., Bonnevie, B., & Jensen, M. (2005). Introduction to mini-HTA—a management and decision support tool for the hospital service. *Danish National Board of Health-Center for Evaluation and HTA*.
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- Catananti, C., Cicchetti, A., & Marchetti, M. (2012). Hospital-based health technology assessment: The experience of Agostino Gemelli University Hospital's HTA Unit. *Italian Journal of Public Health*, 2(2).
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- Martelli, N., Puc, C., Szwarzensztejn, K., Beuscart, R., Coulonjou, H., Degrossat-Théas, A., ... & Lechat, P. (2017). Hospital-based health technology assessment in France: a focus on medical devices. *Thérapie* 2017.
- Halmesmäki, E., Pasternack, I., & Roine, R. (2016). Hospital-based health technology assessment (HTA) in Finland: a case study on collaboration between hospitals and the national HTA unit. *Health Research Policy and Systems*, 14(1), 25.