4th European Value-Based Procurement Conference



Working together on sustainable European health systems; focus on people, prosperity and planet

15 December 2022 - The Hotel, Brussels

The Catalonia healthcare system journey towards the adoption of value-based contracts and the case of ADELE at the Bellvitge University Hospital to transform the care of patients with arrhythmias

Rossana Alessandrello

Value Based Procurement Director AQuAS – Agència de Qualitat i Avaluació Sanitàries de Catalunya

Ignasi Anguera, MD

Director of the Arrhythmias and Electrophysiology Unit of the Cardiology Department, Bellvitge University Hospital





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La compra pública d'innovació és un element clau de modernització del sistema sanitari públic



Es destinaran 30 M d'€ a projectes de compra pública d'innovació per modernitzar els serveis assistencials



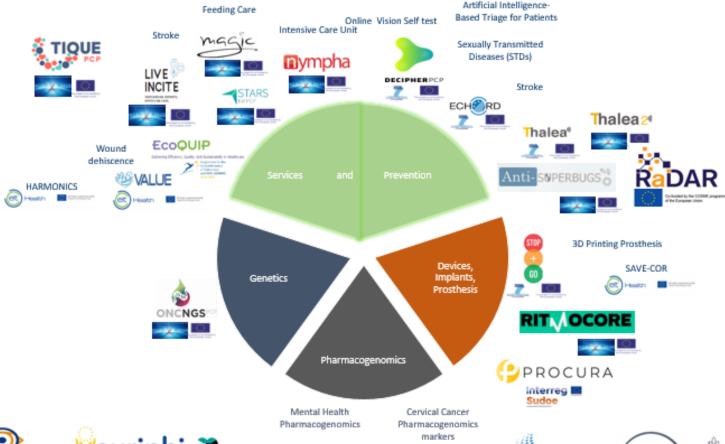
És la primera vegada que el CatSalut obre una línia d'ajuts, a través dels fons FEDER, per potenciar un ús més intel·ligent de la despesa públic



Els criteris d'avaluació i selecció dels projectes guanyadors s'han centrat en dues premisses: l'impacte i l'excel·lència



Es finançaran 18 projectes impulsats per entitats del Sistema sanitari públic orientats a la millora de la qualitat i l'eficiència de l'atenció sanitària











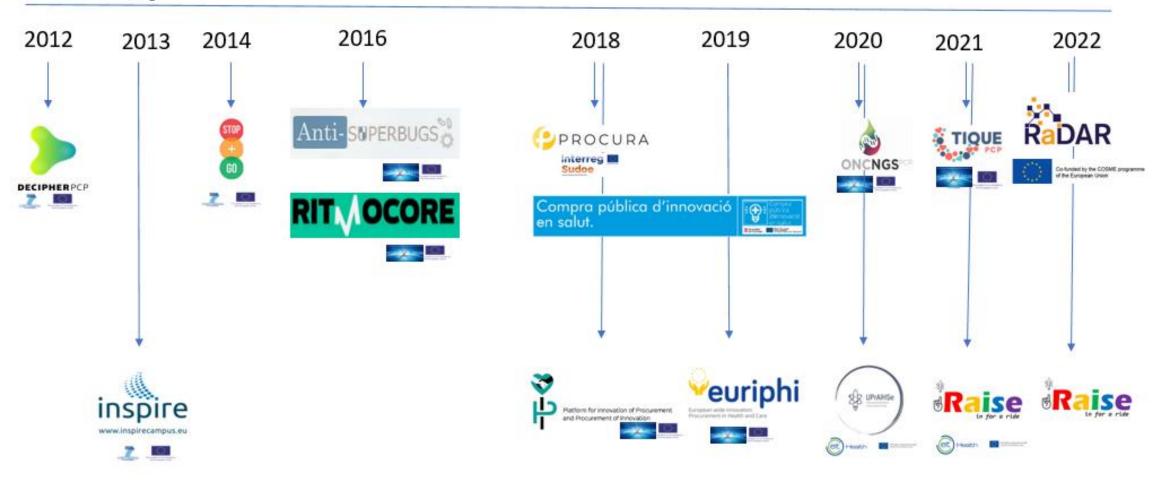
















RITMOCORE model's replicability and scalability



RITMOCORE

Handbook & Guidelines



Policy Brief on regulatory issues and economic factors





ADELE PPI project



DAIS PPI project

Sant Pau Hospital, is applying RITMOCORE model in the adoption of innovative interoperable services to support active and healthy ageing and assisted living.



MITMEVA PPI project

Lead by Clinic Hospital, this is a project to procure innovative solutions for the aortic valve stenosis management



Diabetes PPI Project

Hospital Parc Tauli and Hospital Sant Joan de Deu are reengineering the current care process in Type 1 Diabetes maximizing remote care and concentrating the face-to-face assistance activity in the key points of the process.







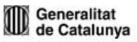




WINNER Innovation Procurement Strategy

RITMOCORE

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The case of ADELE at the Bellvitge University Hospital to transform the care of patients with arrhythmias

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Bellvitge University Hospital



- Tertiary referral centre (700 beds)
- Highest complexity Hospital
- Reference area of 1.3 million inhabitants (South of Barcelona)

The Arrhythmia Unit

- Integrated in the Cardiology Department (100 dedicated beds) with ICC, semi ICC, and conventional wards
- Reference area of 1.3 million inhabitants (South of Barcelona)
- The Unit performs all kind of interventional procedures for diagnoses and treatment of arrhythmia patients (implantation of pacemakers, defibrillators, and resinchronization devices; diagnostic electrophysiological studies, catheter based treatment of all kind of arrhythmias; outpatient clinic for follow-up of patients and devices









Baseline (2019) interventional activity

	2019
Low output Devices (resynchronization pacemakers)	34
High-output devices (implantable defibrillators)	164
Diagnostic Electrophysiology studies	436
Catheter ablation procedures	314
Highest complexity ablations	96
Other procedures	
TOTAL ACTIVITY	948







odele

The rationale of ADELE (1/3)

- An ageing European population translates in a steady growth in the demand for devices (defibrillators) and catheter-based interventions for arrhythmias.
- Budgetary constraints in healthcare systems call for innovative solutions to meet this rising demand while safeguarding the quality of care.
- The current approach generally consists in reducing the price per device/catheter by aggregating purchases, but this creates a misalignment in the value chains of suppliers and healthcare providers.





dele

The rationale of ADELE (2/3)

- On the one hand, in a price-based market, device/catheter manufacturers are not motivated to invest on innovation, but rather to reduce their manufacturing costs, thereby offering hospitals a lower range of products than current technologies afford.
- On the other hand, clinicians seek to offer the best care to patients, and watch with frustration how the more advanced technologies available in the industry do not end up in the operating rooms.

 Hospital management, on their part, are constrained by annual budgets, which do not consider longer term benefits of higher range devices (defibrillators and catheters).





The rationale of ADELE (3/3)



• In this new model of procurement, hospitals:

do not get a supplier of devices



they gain a partner to support them through the entire care pathway

With the experience of RITMOCORE PPI, the model proposed by ADELE represents a shift:

from purchasing devices



to purchasing services where payments are outcome based, and where services are supported by advanced ICT systems.







ADELE (Arrhythmias Defibrillators and Electrophysiology)

The project of improving comprehensive care for patients with arrhythmias using innovative digital solutions

The object of the contract is the **comprehensive approach to patients with arrhythmias** at the Bellvitge University Hospital (HUB), which includes:

- the supply of material and equipment,
- the management of incidents and complications arising from the implantation of the devices and
 of interventional EP procedures,
- the universal implementation of remote monitoring of patients.
- Diagnostic and treatment tools for intermittent and complex arrhythmias are also included,
- as well as the reorganization of the spaces for the interventional activity of the unit (building of two dedicated EP laboratories in the Cardiovascular Interventional Area)









The contract

- Total tender budget of €37 million (6-year contract) + VAT
- The tender designed with a single lot
- The contract has been awarded to Biotronik
- Signature of contract in November 2021
- 1 million grant from ERD funds







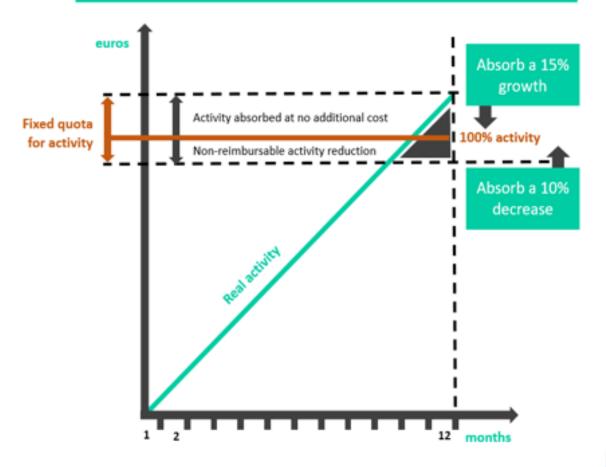
odele

A risk- sharing payment per population

In this contract modality, the hospital (ADELE) offers suppliers a fixed payment to help them service a given population (the population of the reference area).

This population is translated into an estimated level of activity (of pacemakers to be implanted) agreed to by both parties (defined in the contract), and the supplier guarantees the provision of services and devices for this estimated level of annual activity plus/minus an agreed annual percentage of fluctuation

Rates of absorption of variations in activity











Outcome-based payments

A percentage (5%) of payments to suppliers is made dependant on meeting a set of Quality Indicators.

These indicators are designed to ensure that the service provision is oriented towards obtaining the outcomes that best represent the interests of patients and are based on high quality standards









Baseline (2019) and forecast annual activity (2022-2027)

	2019	Annual activity 2022-2027
Low output Devices (resynchronization pacemakers)	34	43
High-output devices (implantable defibrillators)	164	242
Diagnostic Electrophysiology studies	436	601
Catheter ablation procedures	314	457
Highest complexity ablations	96	170
Other procedures		
TOTAL ACTIVITY	948	1343

Increase in 41% in total annual activity







The Pillars

Personalized treatment

Provision of devices and catheters that best suits each patient at any time

Complete and updated range of devices (ICD) and catheters from different manufacturers throughout the duration of the contract

The supplier will need to close commercial agreements with its competitors to offer the Hospital a complete and updated catalogue of products

Remote Monitoring

All devices need to offer the possibility of remote monitoring

The supplier is required to develop an Assistance Centre for Remote monitoring to answer and resolve non-technical queries from patients, and to collect and review all transmissions Reorganization of the spaces for the interventional activity of the unit

(building of two dedicated EP laboratories in the Cardiovascular Interventional Area)

odele

New ICT system

To help monitor the project New database for clinical use

Integration of information from all manufacturers

The information system should be able to interoperate with the electronic health system of the hospital

Change management

Introduction to Lean Management technology

Patient empowerment

Patient education program

App, educational,

Leaflets, educational videos accessible with QR

https://adelearritmias.com

Patient satisfaction survey

Support tools for interventional procedures

(non-invasive mapping systems) new tools for detection of intermittent arrhythmias







Quality Indicators



Low influence of awardee on outcome

- Adherence to current guidelines of clinical practice
- Reduction in in-hospital waiting time for patients scheduled for device implantation
- Reduction in ambulatory waiting time for patients scheduled for device implantation
- Reduction in ambulatory waiting time for patients scheduled for complex ablation
- Reduction in complication rate after ablation of complex arrhythmia
- Reduction in the need for repeat ablation following ablation of complex arrhythmia

High influence of awardee on outcome

- Degree of satisfaction of patients undergoing remote control of devices
- Inclusion of at least 95% of patients with device implantation in the remote control program
- Fast and accurate transmission to the hospital of serious events detected with the remote control surveillance (serious events defined as those that need urgent face-to-face visit, change in medication or change in device programming)
- Reduction in number of in-hospital routine device checks (with very low-added value)
- Degree of satisfaction of patients included in the Patient empowerment program





Thank you!!



