

A background image featuring a complex network of interconnected nodes and lines, resembling a molecular structure or a data network. The nodes are small spheres in various colors (yellow, orange, red, blue) and are connected by thin, glowing blue lines. The overall aesthetic is futuristic and scientific.

Peri-operative pharmacy services and the enhanced recovery pathway

25 -27TH MARCH 2021

Disclosure

Relevant Financial Relationship List: None

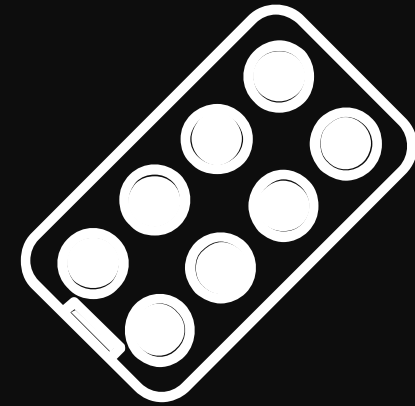
Off-Label Investigational Uses : None

Learning Objective



How to implement clinical pharmacy services in a peri operative setting ?

SHOULD
PHARMACISTS FOCUS
ON PATIENTS WITH
DIRECT ORAL
ANTICOAGULANTS ?



YES

NO

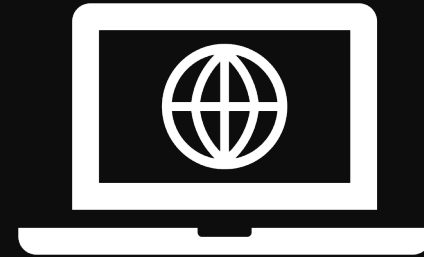
CAN CLINICAL
PHARMACY BE
ANTICIPATED ?



YES

NO

CAN
PHARMACISTS
RELY ON
INFORMATION
SYSTEMS TO
EVALUATE THEIR
PRACTISES ?



YES

NO

Antoine Béclère

Hospital pharmacy ward,
Hauts-de-Seine, France.

Head of Pharmacy : Dr Roy S.



395



6 + 4



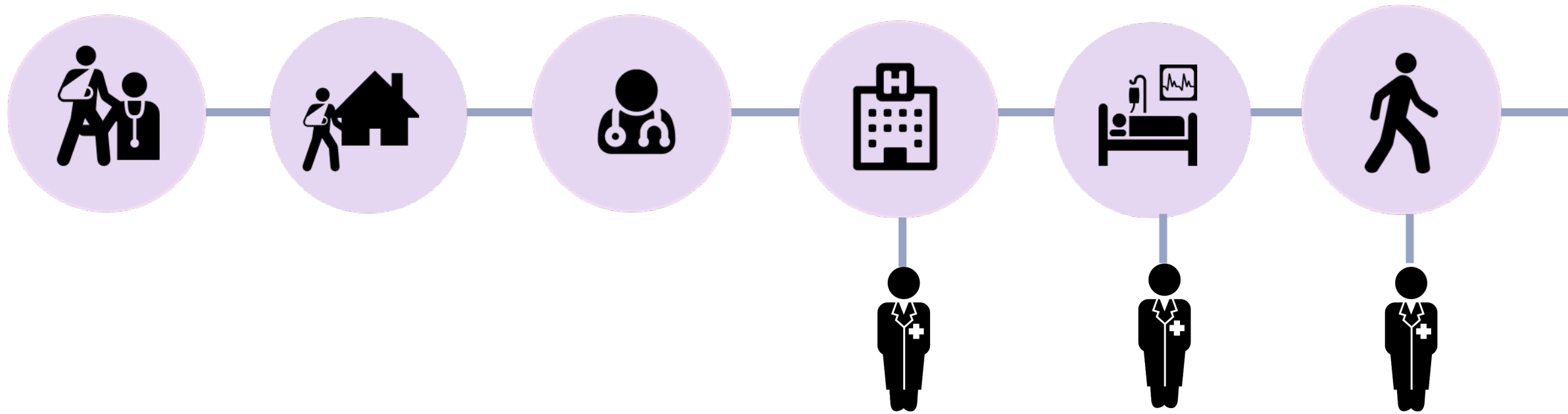
Plan

BPMH before admission



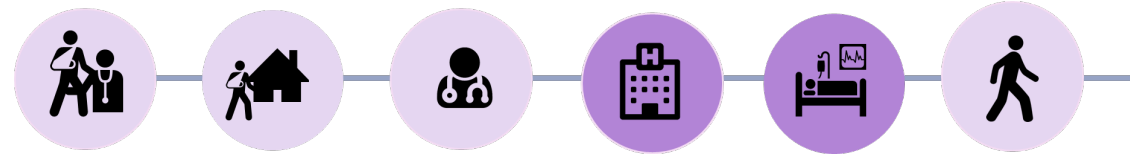
Focusing on discharge





How did it work ?

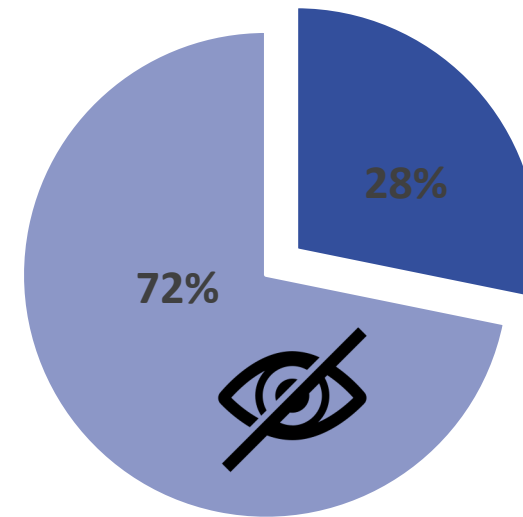
Why did we
modify our
process?



2017 - Reviewing utilization of BMPH

149 patients

Consultation rate



■ Yes ■ No

What did we learn ?



Reasons : time delay + competition with the anesthesia report



Discrepancies between the two sources for 70% of the patients.



40,4% of UMD with a moderate or serious clinical impact

What did we need ?



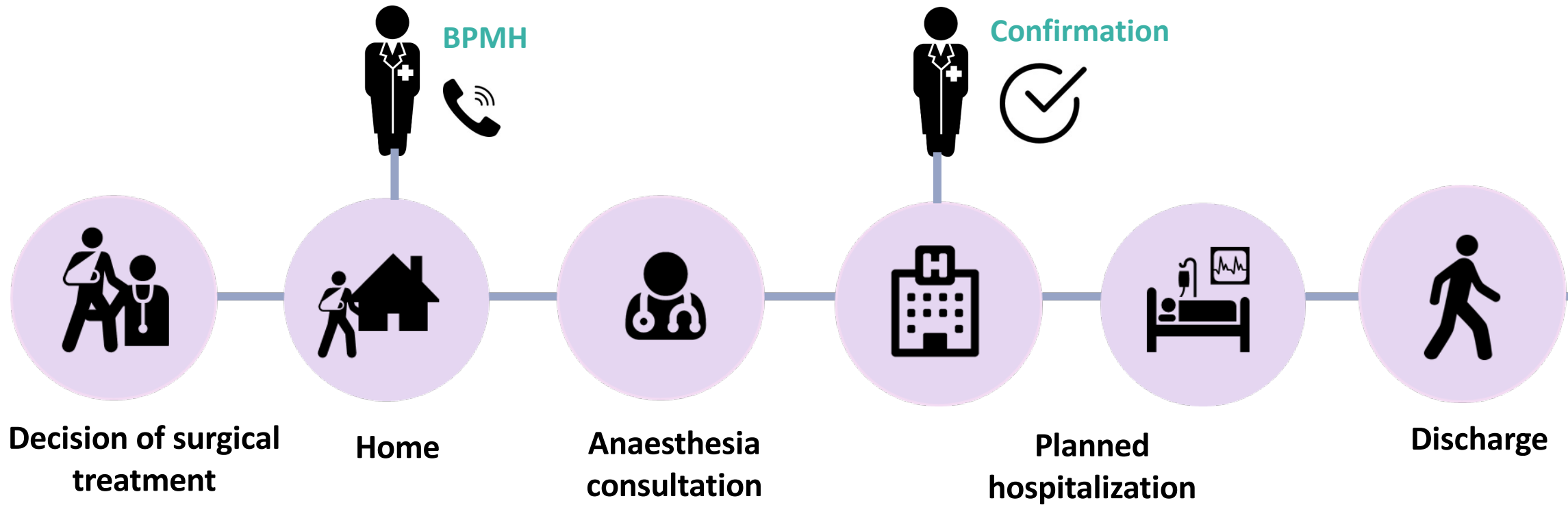
STRONG EXPERIENCE IN CLINICAL
PHARMACY



STRONG RELATIONSHIP



CONTINUOUS DISCUSSION WITH
THE SURGICAL TEAM OVER THE
YEARS



How is it done now?

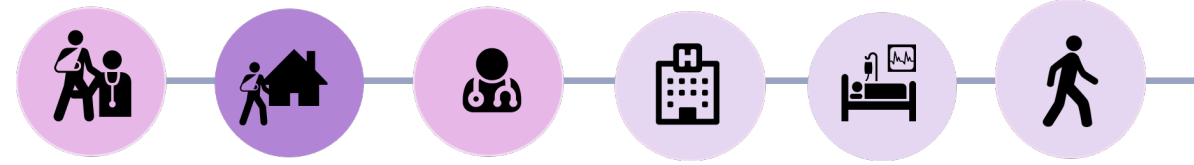
Take home message



Evaluate your practices to make them evolve



Always question yourself



Making of BPMH before admission

1



Selecting patients through ORBIS[®]: Anaesthetist's meeting planning

2



Calling patients : phone interview

3

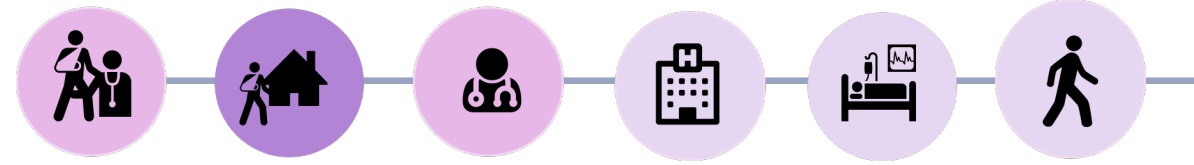


Gathering information : pharmaceutical validation

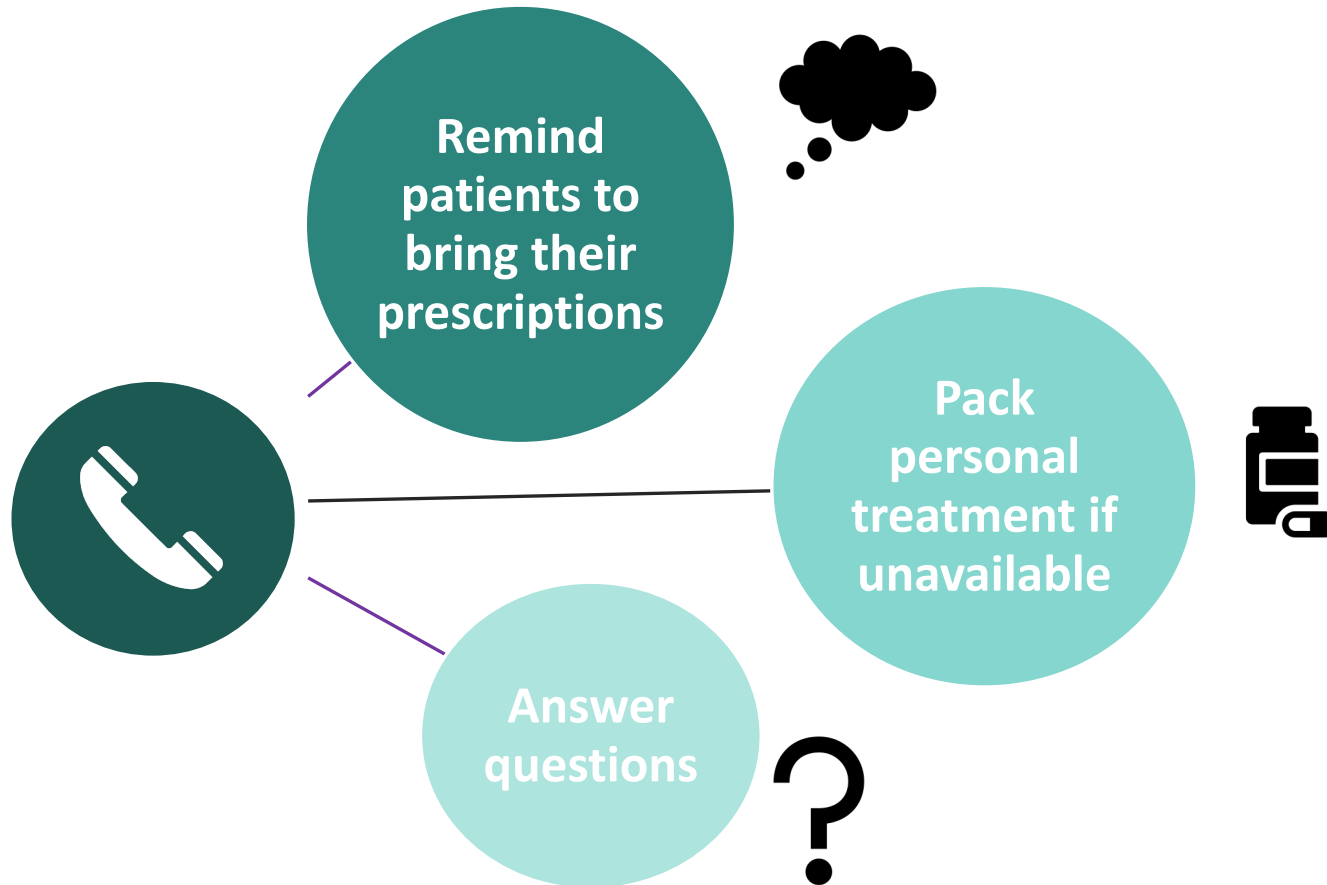
4

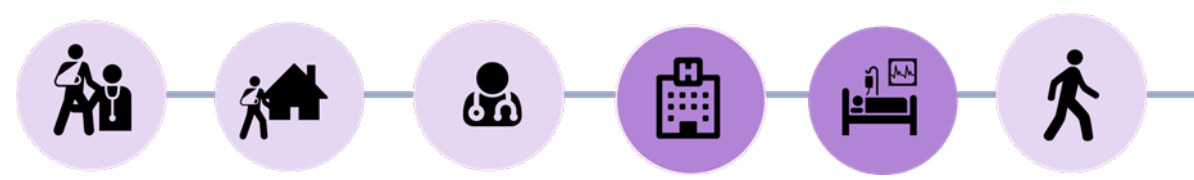


BPMH posted online (ORBIS[®])

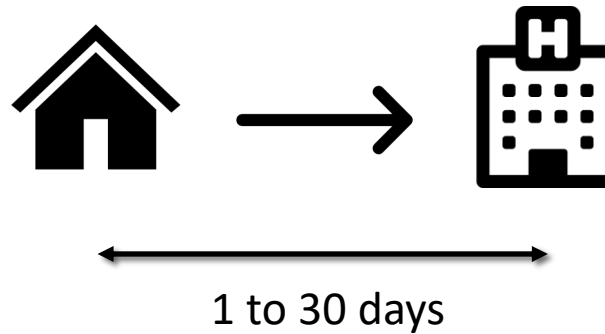


During the call





Checking accuracy upon admission



On admission : Is there any modification ? : yes no

Source :

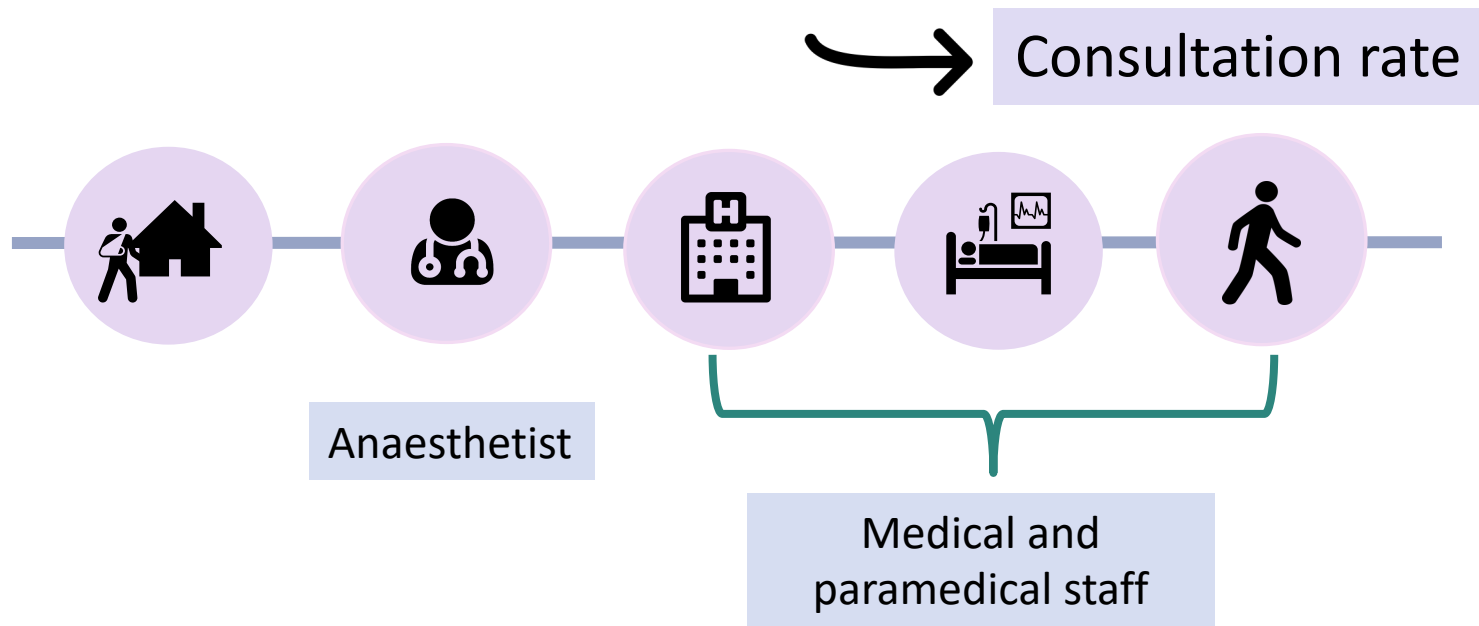
Date :

Visa :

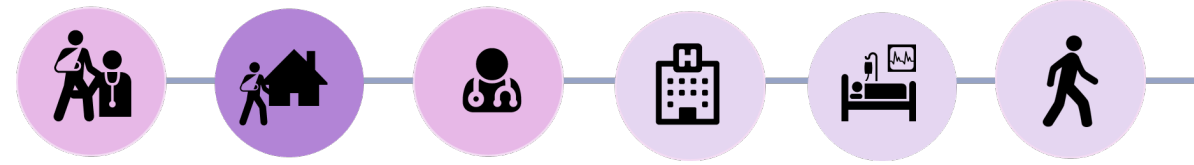
Study : material and methods

- Antoine Beclere Hospital
- 6 months
- Orthopaedic and visceral surgery

Improving the integration of pharmaceutical care service in surgery wards



- Factors influencing consultation?
- Patient satisfaction
- Assessing the process



Results : process and on admission

250 patients

124  **126** 

Age = 59 +/- 17,6 yo

Length of stay = 7,4 days

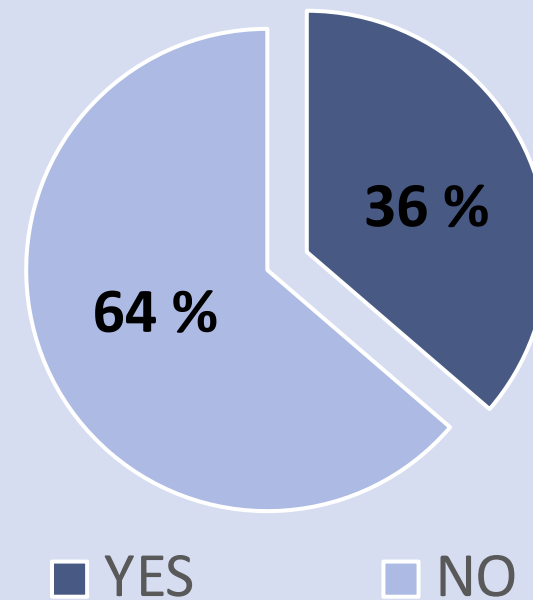
Mean number of medicines = 5

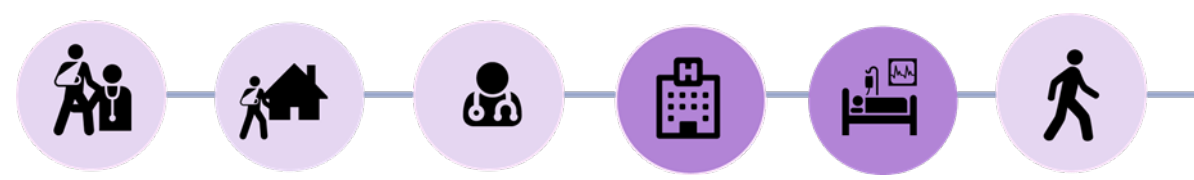
Sources = 3

Calls = 1,58 +/- 0,81

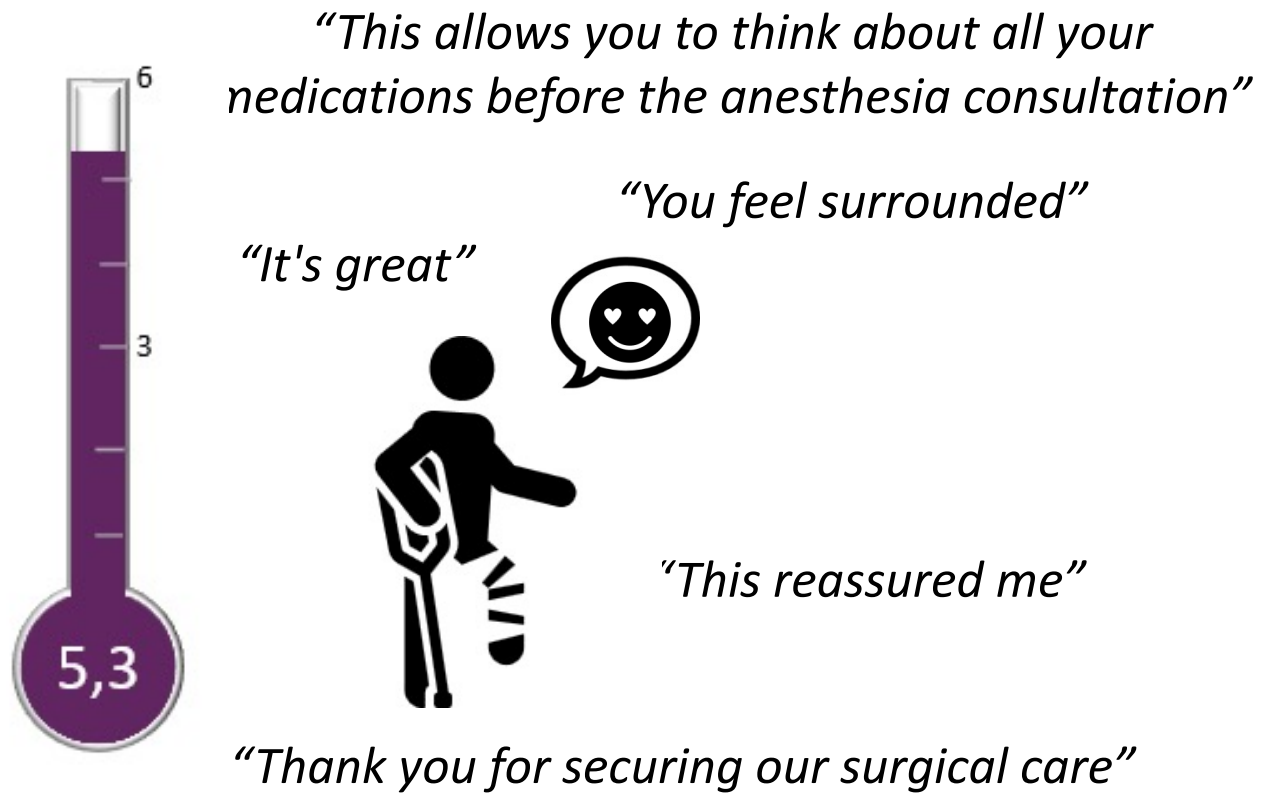
Modification rate upon admission = 16%

Anaesthetist's consultation
rate before admission

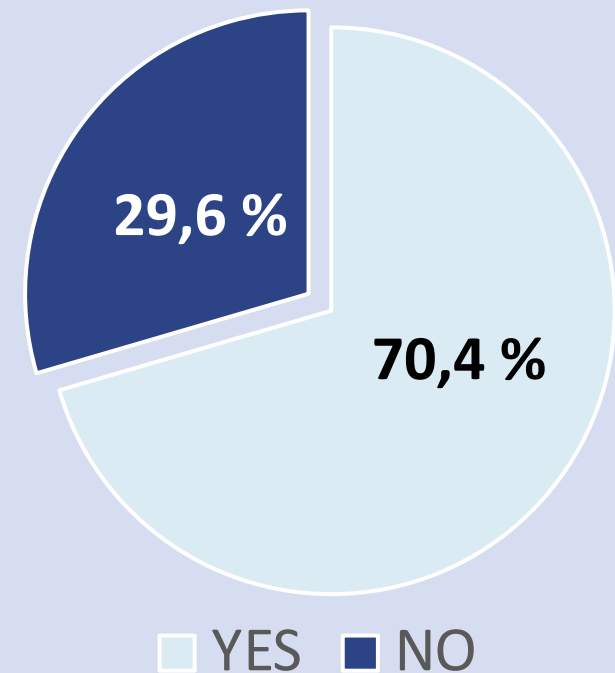


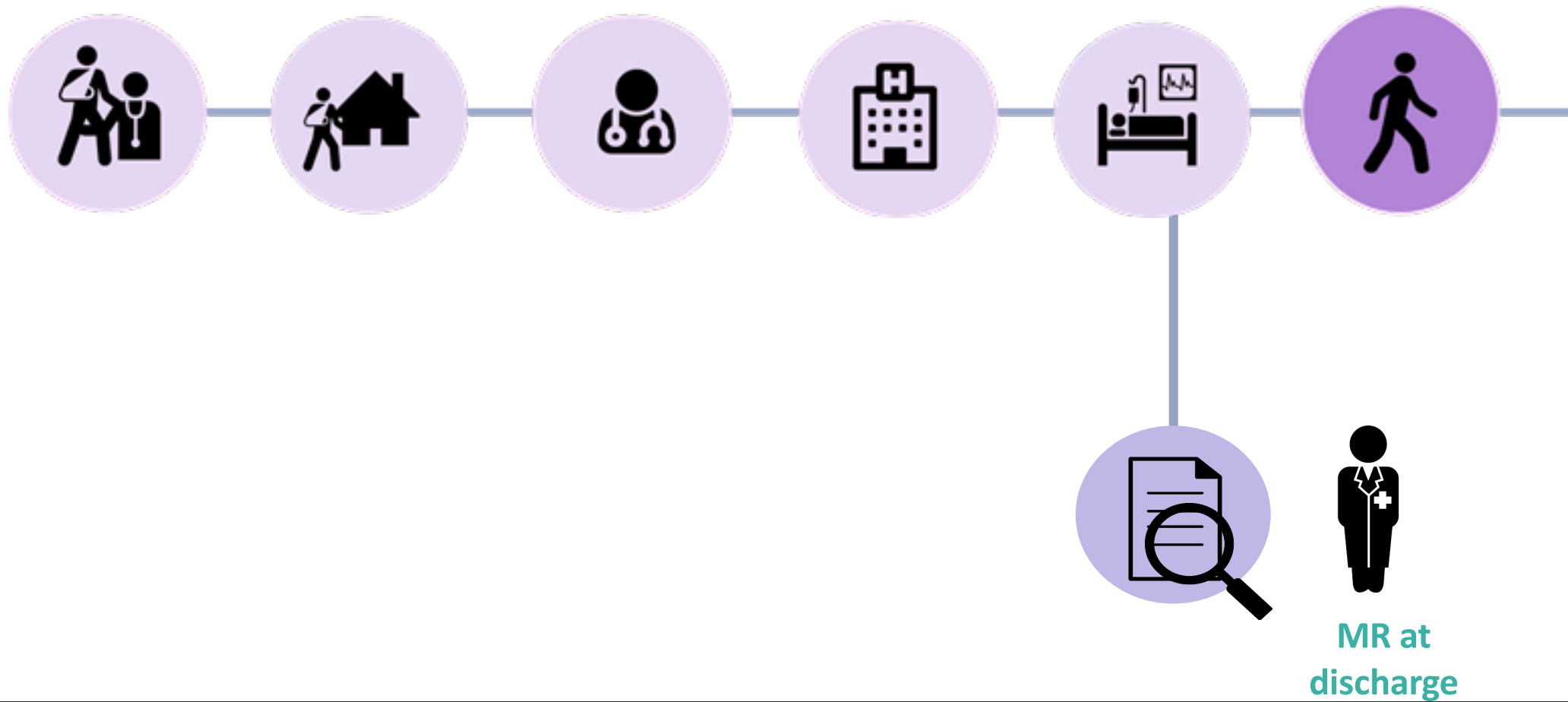


Results : hospitalisation and discharge



Medical and paramedical staff consultation rate at discharge





Discharge

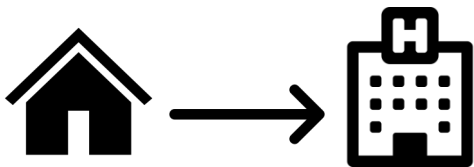
Why target discharge + anticoagulants?



Valuable

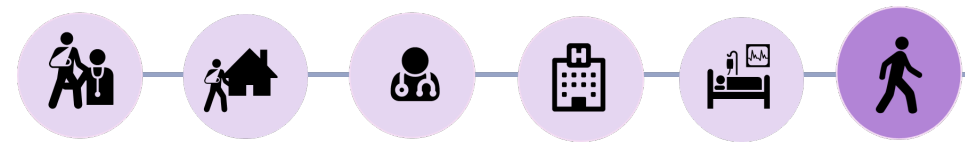


Retrospective study from Jan 2017 to Feb 2018 on 93 patients



Study found :

9 rehospitalisations attributable to thromboembolic events
+ **mandatory discontinuity of treatment during surgery**



How did we focus on anticoagulants ?

Working together



Assessing the needs

Work group

- Surgeons
- Pharmacist
- Anesthesiologist
- Resuscitator



Multidisciplinary agreement on recommendation

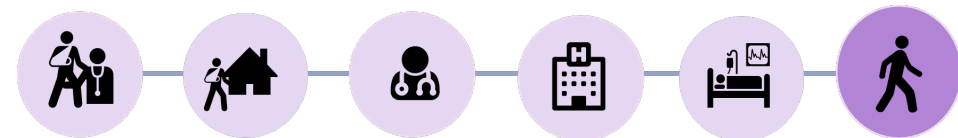


Tools for assisting rational prescription

<p>Anticoagulation SG/IV</p> <p>UFH: Calciparin</p> <p>Dosage</p> <ul style="list-style-type: none"> • Prévention : 5000 IU par 12h • Curatif : 5000 IU/12h <p>Dosage adapté en cas d'insuffisance rénale</p> <p>Biological monitoring</p> <ul style="list-style-type: none"> • Ajuster la dose si les paramètres suivants sont atteints : <ul style="list-style-type: none"> - Créatinine > 1,5 mg/dL (130 µmol/L) - After every change of dosage • Risques 	<p>CONTACTS</p> <ul style="list-style-type: none"> • Anesthésiste : • Resuscitateur : • Clinical laboratory : 20 602 • Pharmacy : 20 325 	<p>ASSISTANCE PUBLIQUE HÔPITAUX DE PARIS</p> <p>Peri-operative anticoagulants management</p>
<p>LMWH : Enoxaparin</p> <p>Dosage</p> <ul style="list-style-type: none"> • Prévention : 4000/20h • Curatif : 100mg / 12h <p>Dosage adapté en cas d'insuffisance rénale</p> <p>MANDATORY</p> <ul style="list-style-type: none"> • 30 000 IU de Normal dosage • 15 000 IU de High dose • 10 000 IU de Curatif <p>Biological monitoring</p> <ul style="list-style-type: none"> • Ajuster la LMWH 4h after injection • Dosage ajuster : < 30 000 IU • In case of severe weight, age, impairment of renal function or pregnancy • Platelets 	<p>Abbreviations/écrire :</p> <p>At : artrial fibrillation AIC : anticoagulant ACC : antithrombotic accident DC : direct oral anticoagulant DR : direct oral thrombolysis DR : international normalized ratio Enox : Enoxaparin PT : primary prevention TIO : thrombotic thrombocytopenic syndrome (more than 3 months) UH : ultra-high-dose UH : ultra-high-dose UH : ultra-high-dose UH : ultra-high-dose UH : ultra-high-dose</p> <p>Service de Chirurgie Orthopédique Service d'Anesthésie Service de réanimation Laboratoire d'Hémostase Pharmacie à Usage Intérieur Hôpital Antoine Béclère 157 rue de la Porte des Minimes 92140 CLAMART</p> <p>Hôpital de la Pitié-Salpêtrière</p>	



Working together is key



MR at discharge



37 patients
Sex ratio (F/H) 1,2/1

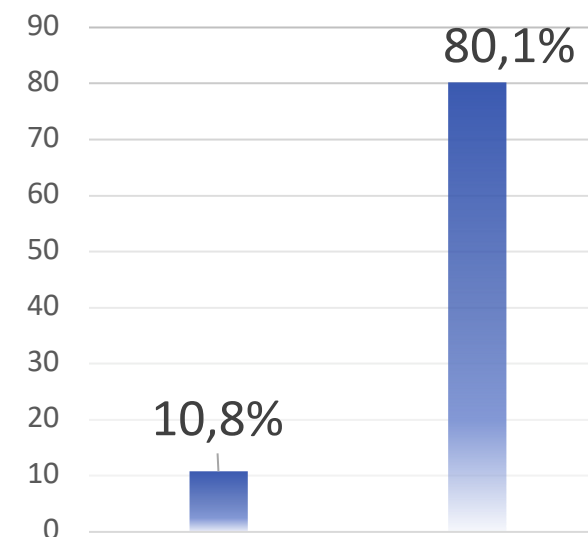
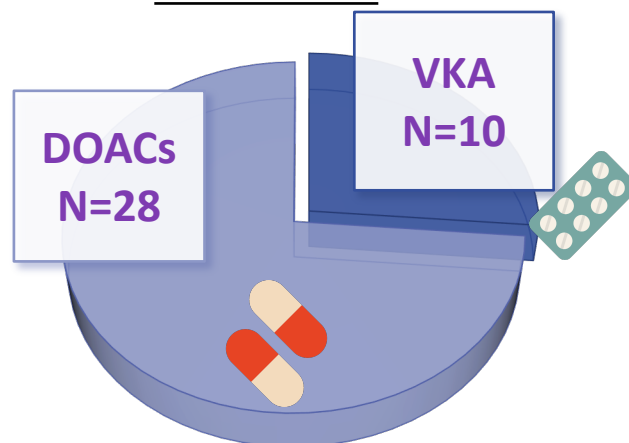


80 ± 11,4 yo



Median lengths of stay
7,8 ± 5,6 days

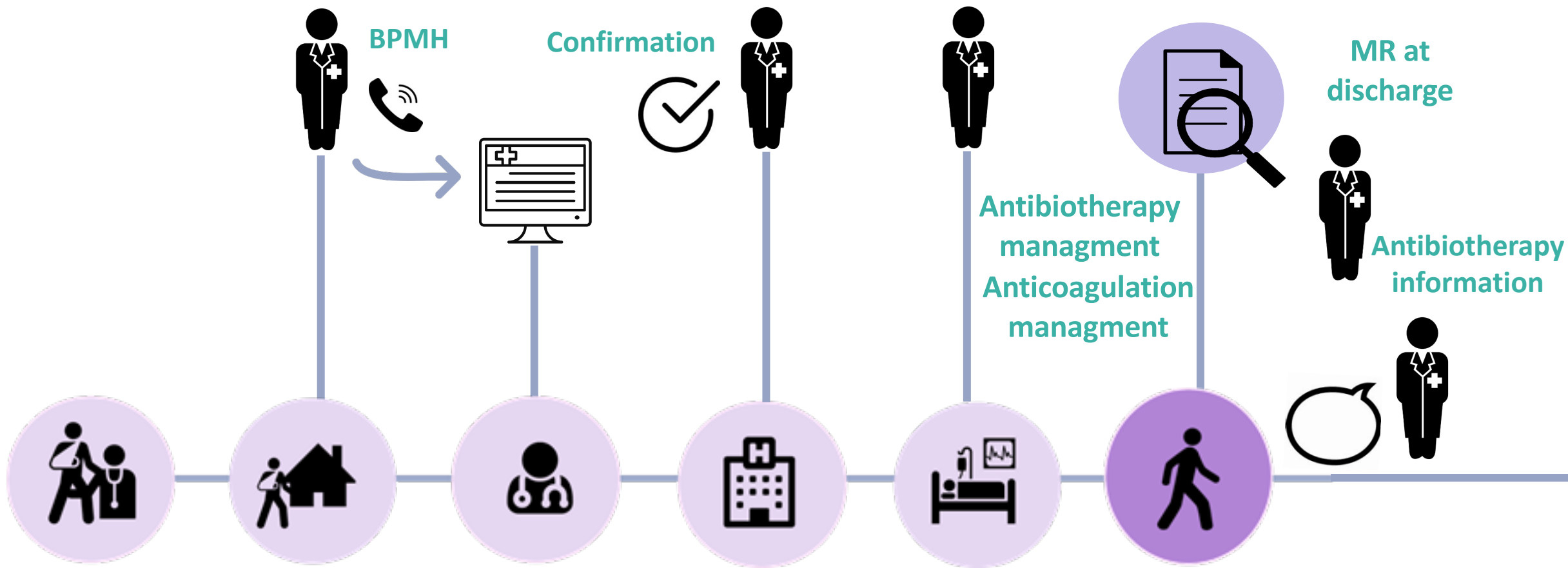
Usual anticoagulant treatment



Before PI After PI

p < 0,05

Assess the impact of a proactive conciliation concerning the conformity of the discharge documents delivered to the patient.



Pharmaceutical care services in surgery wards



Working together is key



Always question yourself



**Evaluate your practices
to make them evolve**

Conclusion

Thank you for your attention