


## H-OPAT for bone and joint infections

Ester Steffens, RN, MSc  
PhD Candidate


UNIVERSITY HOSPITALS LEUVEN



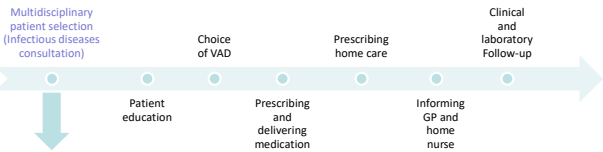
### OPAT: What's in a name?

- Definition: provision of parenteral antimicrobial therapy in at least 2 doses on different days without intervening hospitalization
- 3 models
  - Ambulatory care centre - hospital nurse
  - Patient's home - patient or informal caregiver (S-OPAT: self-administration)
  - Patient's home - home healthcare nurse (H-OPAT)

Tice, e.a., 2004; Chapman, e.a. 2012; Buyle, e.a. 2016; Ravelingien, e.a. 2016




### UZ Leuven H-OPAT program



**OPAT-team:** infectious diseases physician, microbiologist, hospital hygiene, clinical pharmacy, care program manager


Tice, e.a., 2004; Chapman, e.a. 2012



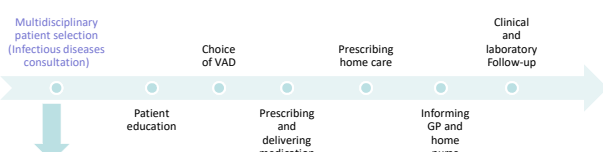
Antibiotic	Stability	Administration schedule
Ceftriaxone	12h on 25°C 6h on 37°C	q24h intermittent
Meropenem	12h on 25°C 6h on 37°C	q8h intermittent
Ceftazidime	< 24h on 37°C	q12h continuous
Flucloxacillin	< 24h on 37°C	q12h continuous
Piperacillin-tazobactam	≥ 24h on 37°C	q24h continuous
Temocillin	≥ 24h on 37°C	q24h continuous
Vancomycin	≥ 24h on 37°C	q24h continuous




Voumard, e.a. 2017



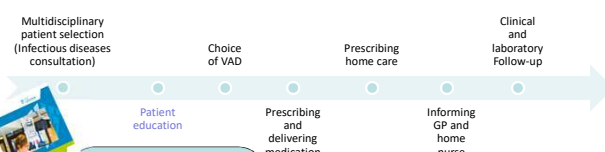
### UZ Leuven H-OPAT program



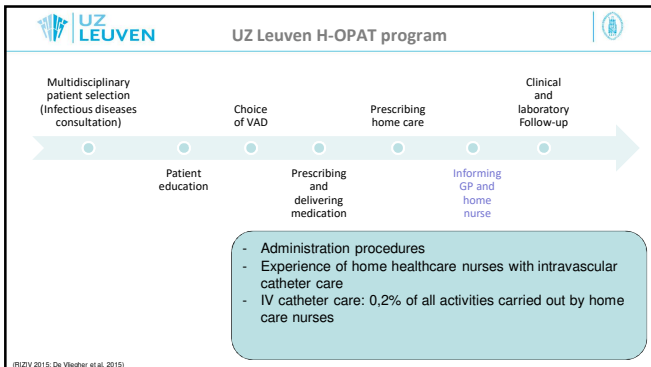
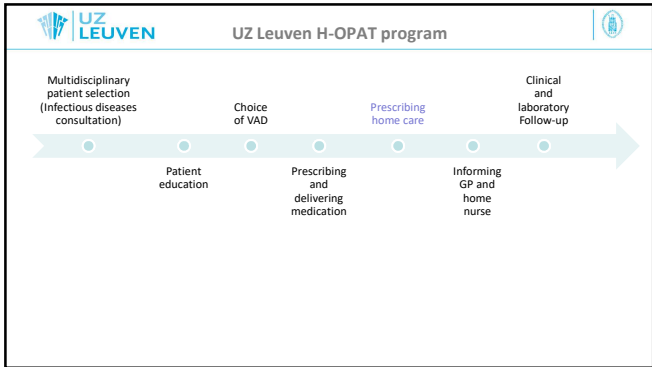
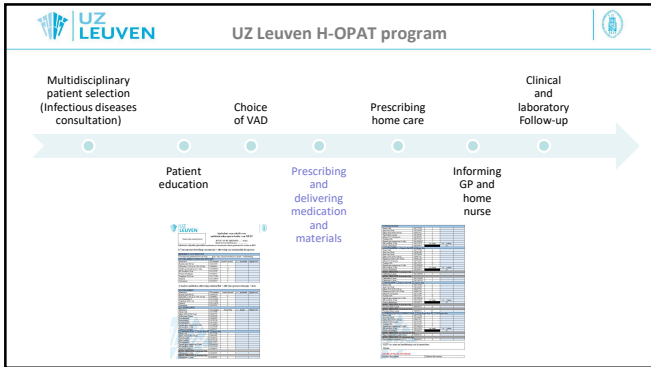
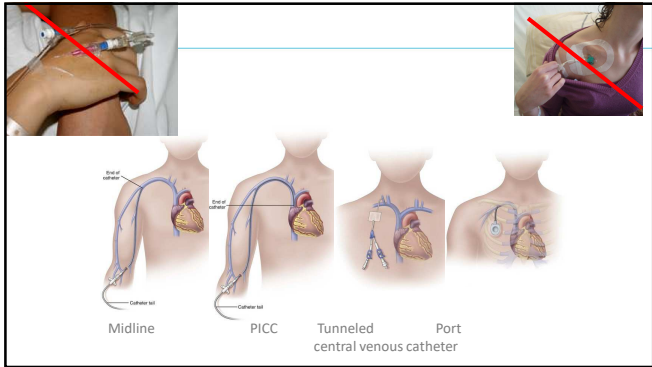
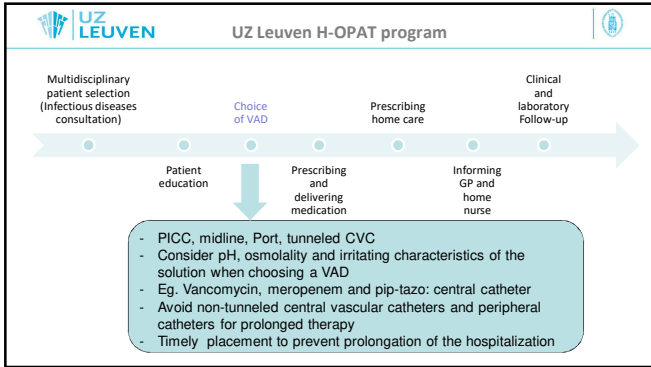
- selection criteria
- Patient specific
- Infection specific
- Other medical factors



### UZ Leuven H-OPAT program



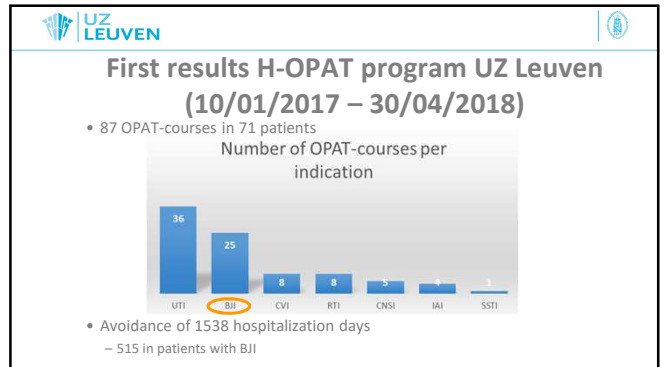
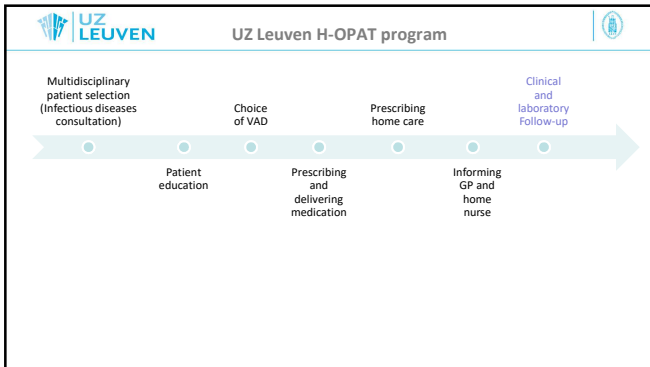
- Written & oral
- Topics
  - AB (storage)
  - VAD
  - Complications
  - self care
  - Financial aspect
  - Phone number



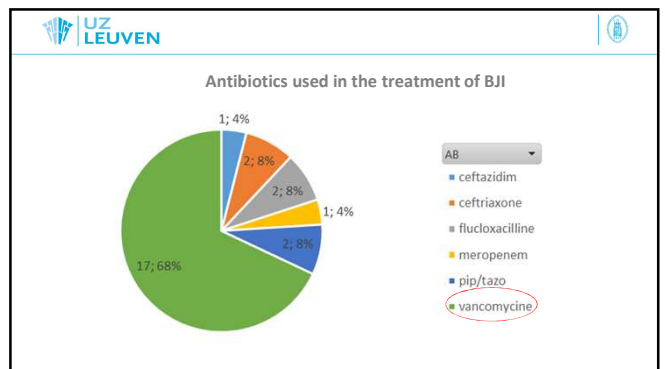
**OPAT PROJECT: Intraveneuze antibiotische therapie met temocilline**

Informatie voor zorgverleners

OPAT PROJECT: Intraveneuze antibiotische therapie met temocilline



- 
- Indications BJI (OPAT-courses)**
- PJI (n=10)
    - Shoulder (n=6)
    - Hip (n=2)
    - Knee (n=2)
  - FBI (n=9)
  - Osteomyelitis (n=3)
  - Septic arthritis (n=2)
  - Spondylodiscitis (n=1)



- 
- Outcomes in patients with BJI**
- Cure: 23/25
  - Readmissions: 5/25
    - DRESS reaction, subtherapeutic vancomycin blood level, organizational problems
  - Device related problems: 4/25
    - Deviations in the infusion rate of elastomeric devices
  - VAD complications: 4/25
  - ADE related to OPAT-AB: 2 patients
    - DRESS reaction, transpiration

