

# OPAT

(outpatient parenteral antimicrobial therapy)

Franky Buyle, BVIKM/SBIMC, June 1st 2021



# What is OPAT?

- OPAT is a method for delivering intravenous antimicrobials in the community or outpatient setting, as an alternative to inpatient care.
- OPAT is useful for patients who require parenteral antimicrobial therapy but are otherwise well enough to continue therapy without further hospitalisation.
- OPAT has been used in many countries for over 30 years and there's evidence on clinical outcome (safe and effective)

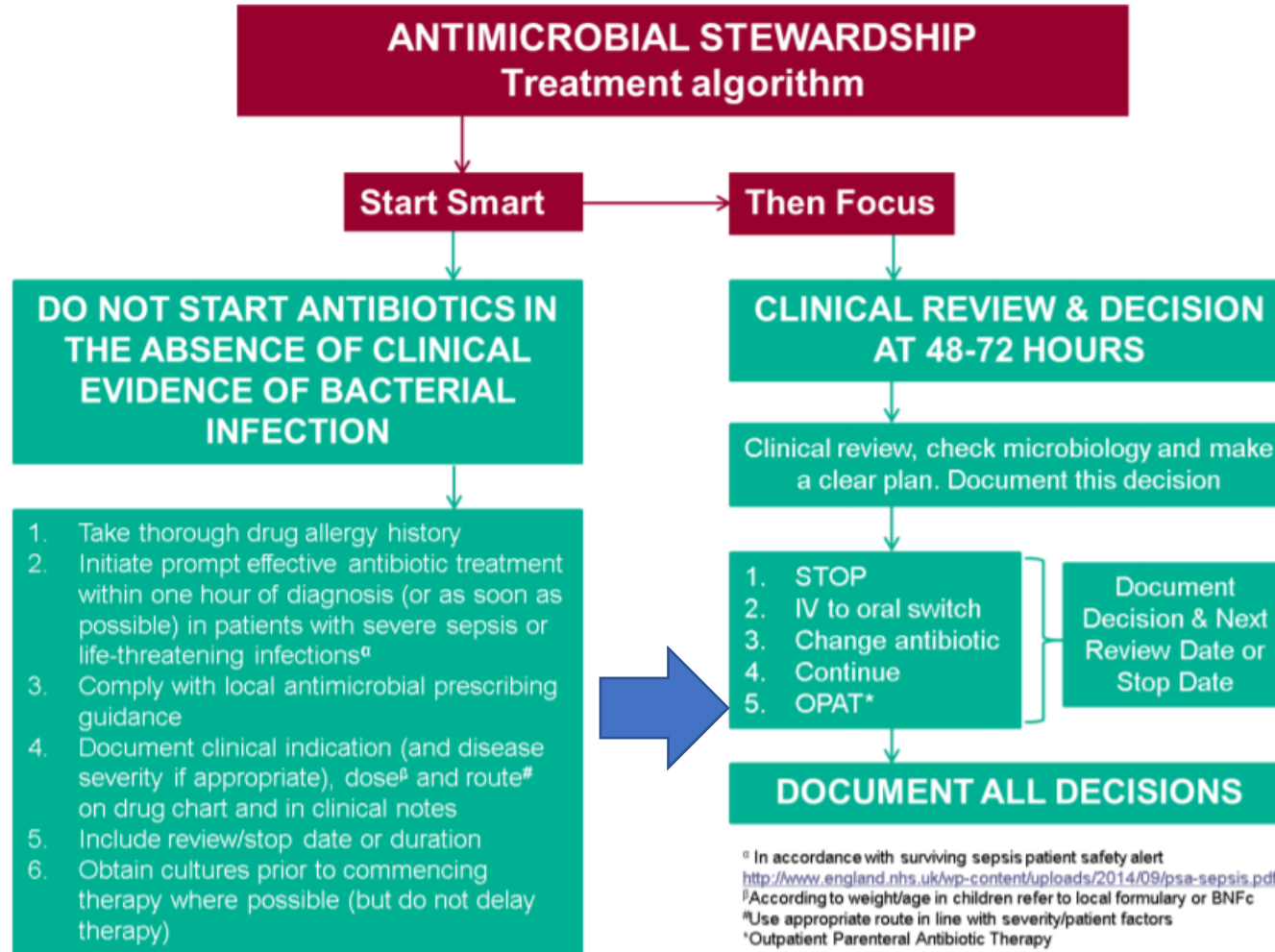
Chapman et al. JAC 2012;67:1053-1062

# Benefits of OPAT

- reduced length of stay in hospital resulting significant cost savings for the society
- reduction in risk of healthcare-associated infection
- improved patient satisfaction.

Chapman A. J. Antimicrob Chemother 2012; 67: 1053–1062

# Antimicrobial Stewardship (AMS) – Treatment algorithm



# OPAT good practice recommendations: 5 key areas

*J Antimicrob Chemother* 2012; **67**: 1053–1062  
doi:10.1093/jac/dks003 Advance Access publication 31 January 2012

**Journal of  
Antimicrobial  
Chemotherapy**

## **Good practice recommendations for outpatient parenteral antimicrobial therapy (OPAT) in adults in the UK: a consensus statement**

Ann L. N. Chapman<sup>1\*</sup>, R. Andrew Seaton<sup>2</sup>, Mike A. Cooper<sup>3</sup>, Sara Hedderwick<sup>4</sup>, Vicky Goodall<sup>1</sup>, Corienne Reed<sup>5</sup>, Frances Sanderson<sup>6</sup> and Dilip Nathwani<sup>7</sup> on behalf of the BSAC/BIA OPAT Project Good Practice Recommendations Working Group†

*J Antimicrob Chemother* 2015; **70**: 360–373  
doi:10.1093/jac/dku401 Advance Access publication 19 October 2014

**Journal of  
Antimicrobial  
Chemotherapy**

## **Good practice recommendations for paediatric outpatient parenteral antibiotic therapy (p-OPAT) in the UK: a consensus statement**

Sanjay Patel<sup>1\*</sup>, Ed Abrahamson<sup>2</sup>, Stephen Goldring<sup>3</sup>, Helen Green<sup>1</sup>, Hayley Wickens<sup>4,5</sup> and Matt Laundry<sup>6</sup>

<sup>1</sup>Department of Paediatric Infectious Diseases & Immunology, Southampton Children's Hospital, University Hospital Southampton NHS Foundation Trust, Southampton, UK; <sup>2</sup>Paediatric Emergency Department, Chelsea and Westminster Hospital NHS Foundation Trust, London, UK; <sup>3</sup>Department of Paediatrics, The Hillingdon Hospital NHS Foundation Trust, London, UK; <sup>4</sup>Pharmacy Department, University Hospital Southampton NHS Foundation Trust, Southampton, UK; <sup>5</sup>Department of Medicine, Imperial College, London, UK; <sup>6</sup>Department of Medical Microbiology, St George's Healthcare NHS Trust, London, UK

1. OPAT team and service structure
2. Patient selection
3. Antimicrobial management and drug delivery
4. Monitoring of the patient during OPAT
5. Outcome monitoring and clinical governance

**Figure 2.** Five key areas reflecting the different components of an OPAT service.

# OPAT in Belgium ... anno 2017

KCE REPORT 250



## IMPLEMENTATION OF HOSPITAL AT HOME: ORIENTATIONS FOR BELGIUM



2015

www.kce.fgov.be



Farfan-Portet M-I, Denis A, Mergaert L, Daue F, Mistiaen P, Gerkens S. Implementation of hospital at home: orientations for Belgium. Health Services Research (HSR) Brussels: Belgian Health Care Knowledge Centre (KCE).

2015. KCE Reports 250. D/2015/10.273/68.



Persbericht 25 mei 2016

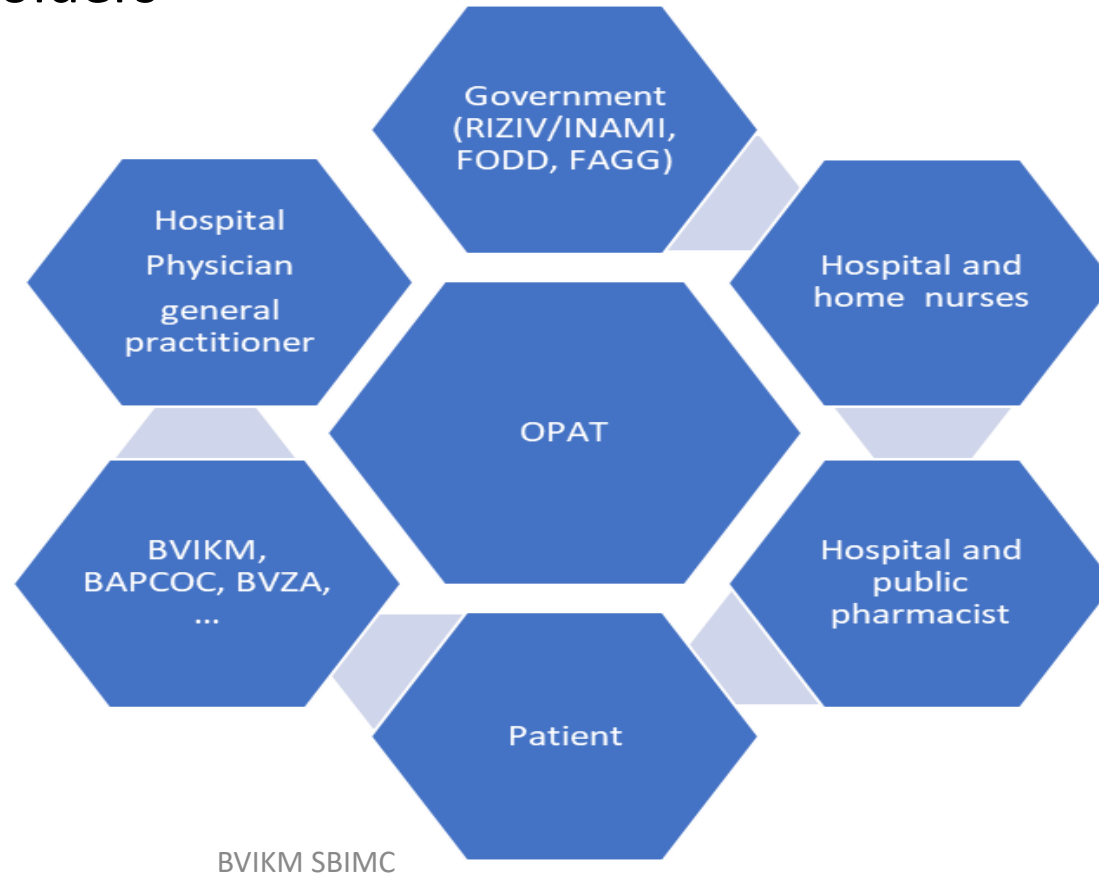
## Maggie De Block roept op voor pilootprojecten thuishospitalisatie

BRUSSEL, 26/05/2016. - Maggie De Block, minister van Sociale zaken en Volksgezondheid, lanceert vandaag een oproep voor pilootprojecten thuishospitalisatie. Het is de tweede oproep voor pilootprojecten in het kader van



# OPAT in Belgium... towards a Belgian national OPAT guideline (BVIKM/SBIMC congress 30 March 2017)

- “to share experience in order to develop Belgian national OPAT guideline in collaboration with all stakeholders”



# OPAT in Belgium ... anno 2021

- Scientific publications describing experience Belgian hospitals
  - UZ Gent: Ravelingien et al. Acta Clin Belg 2016;71:297-302
  - Imelda Bonheiden: Smismans A et al. Acta Clin Belg 2018;73:257-267
  - UZ Leuven: Steffens E et al. Infection 2019;47:169-181
  - UC Louvain: Briquet C et al. Acta Clin Belg 2020;75:275-283
  - UZ Brussel: Debaenst N et al. Acta Clin Belg 2020; DOI: 10.1080/17843286.2020.1772572
- Pilotproject hospitalisation at home partim OPAT: ended December 2020 (waiting for a final report)



# OPAT in Belgium ... anno 2021

- BAPCOC workgroup hospital medicine:
  - OPAT is part of the National Action Plan on Antimicrobial Resistance
  - Preparing 2 documents:
    - strategic policy
    - operational policy (OPAT team, selection of patients, selection of antibiotics, monitoring of the patient, outcome monitoring, ..)
  - BVIKM/SBIMC is represented within this workgroup
  
- RIZIV/INAMI
  - April- July 2021: Preparing legal and financial structure for OPAT
    - Aim is to have a legal basis in summer 2021 with evaluation 6 months later
  - BVIKM/SBIMC is not represented within this workgroup
    - Message to RIZIV/INAMI: "BVIKM/SBIMC is convinced that the expertise of the infectiologist and clinical microbiologist is essential in the multidisciplinary approach of OPAT"
  - BAPCOC workgroup hospital medicine is represented and defends the vision of BVIKM/SBIMC members

# Interesting links

Organisation	link
British Society for Antimicrobial Chemotherapy (UK)	<a href="https://e-opat.com/publications/#goodpractice">https://e-opat.com/publications/#goodpractice</a>
SWAB (The Netherlands)	<a href="https://swab.nl/nl/introductie-opat-praktijkgids">https://swab.nl/nl/introductie-opat-praktijkgids</a>
OPAT-consortium (11 Flemish hospitals) (Belgium)	<a href="http://www.OPAT.be">www.OPAT.be</a>

CM-DBS  
MK-VB

