

# Outpatient parenteral antimicrobial treatment

## *What's in a name?*

*SBIMC-BVIKM  
March 30th 2017  
Brussels*

Franky Buyle

*Pharmacy  
Multidisciplinary Infection Team  
Ghent University Hospital, Belgium*

## Outpatient parenteral antimicrobial therapy (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 therapy for moderate to severe infections but are otherwise well enough to continue therapy without an overnight stay in hospital.
- ➔ OPAT has been used in many countries for over 30 years and a there's evidence on clinical outcome

## 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



## OPAT experience

- ➔ OPAT was first described in 1974 in North America and is now an standard of care in many countries including USA, Canada, Australia, New Zealand, Singapore, Italy, the Netherlands.

# Practice Guidelines for Outpatient Parenteral Antimicrobial Therapy

**Alan D. Tice,<sup>1</sup> Susan J. Rehm,<sup>2</sup> Joseph R. Dalovisio,<sup>3</sup> John S. Bradley,<sup>4</sup> Lawrence P. Martinelli,<sup>5</sup> Donald R. Graham,<sup>6</sup> R. Brooks Gainer,<sup>7</sup> Mark J. Kunkel,<sup>8</sup> Robert W. Yancey,<sup>9</sup> and David N. Williams<sup>10</sup>**

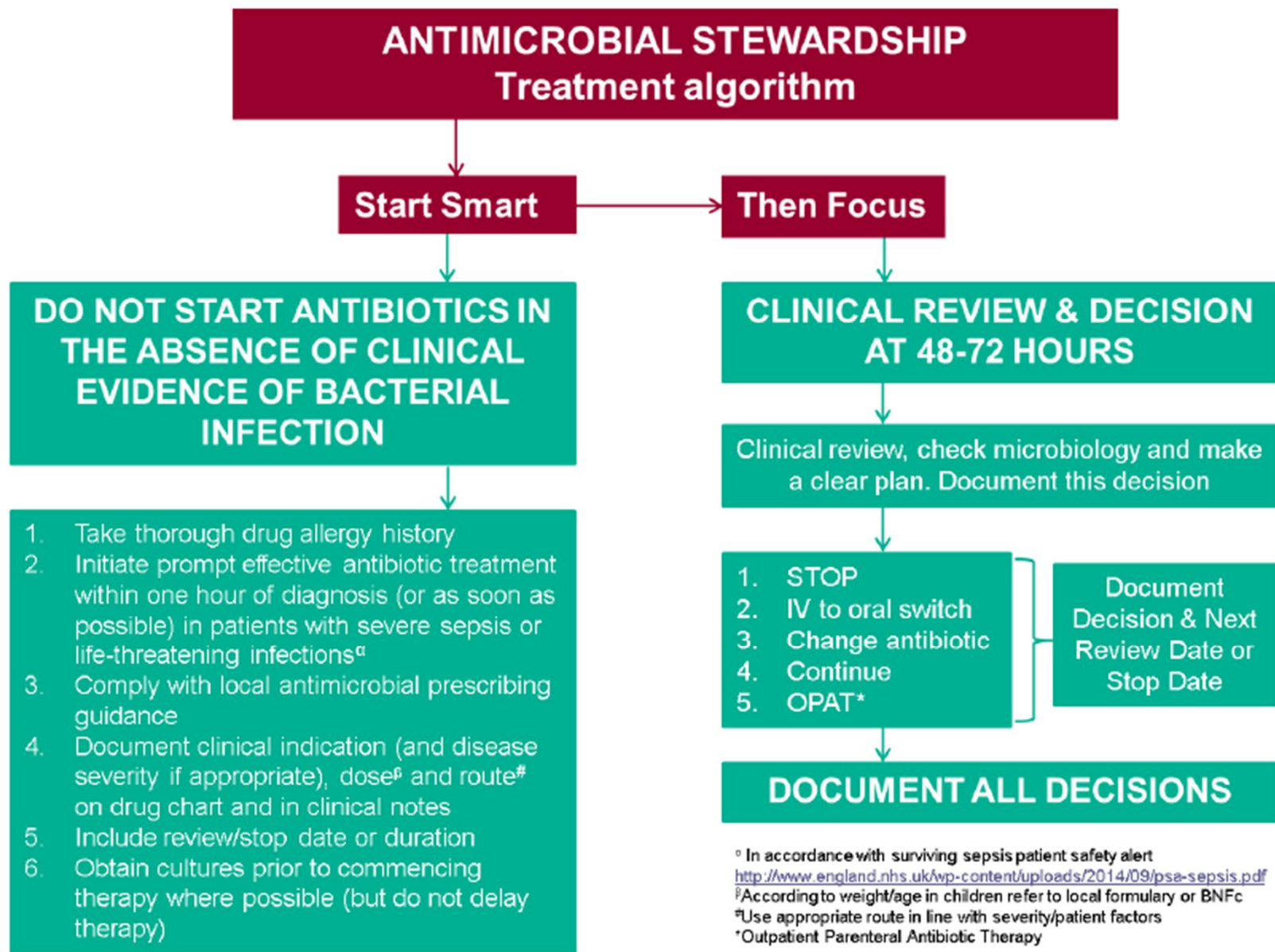
<sup>1</sup>John A. Burns School of Medicine, University of Hawaii, Honolulu; <sup>2</sup>Department of Infectious Diseases, Cleveland Clinic Foundation, Cleveland, Ohio; <sup>3</sup>Ochsner Clinic, Department of Infectious Diseases, New Orleans, Louisiana; <sup>4</sup>Division of Infectious Diseases, Children's Hospital of San Diego, San Diego, California; <sup>5</sup>Consultants in Infectious Diseases, Lubbock, Texas; <sup>6</sup>Springfield Clinic, Springfield, Illinois; <sup>7</sup>Morgantown Internal Medicine Group, Morgantown, West Virginia; <sup>8</sup>Pfizer, Inc.; <sup>9</sup>Florida Infection Physicians, Gainesville; <sup>10</sup>Hennepin County Medical Center, Minneapolis, Minnesota

**Clinical Infectious Diseases 2004; 38:1651–72**



## OPAT experience abroad

- ➔ the Department of Health (England), within its antimicrobial stewardship guidance document, has identified OPAT as one of the 5 key prescribing decisions following prescription of an antimicrobial in hospital



Antimicrobial stewardship: **Start smart - then focus**. From: Public Health England; First published: 17 November 2011; Last updated: 25 March 2015

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

---

## **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

## **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*



## OPAT in Belgium?

- ➔ **A survey of current practice and potential for outpatient parenteral antimicrobial therapy (OPAT) in Belgian hospitals in 2014.** (Submitted in International Journal of Clinical Pharmacy by T. Ravelingien, A. Vantrappen et al)

response rate of 71%

Of the hospitals who already discharge patients with OPAT, 75% (40/53) indicated intention to expand their OPAT-programme

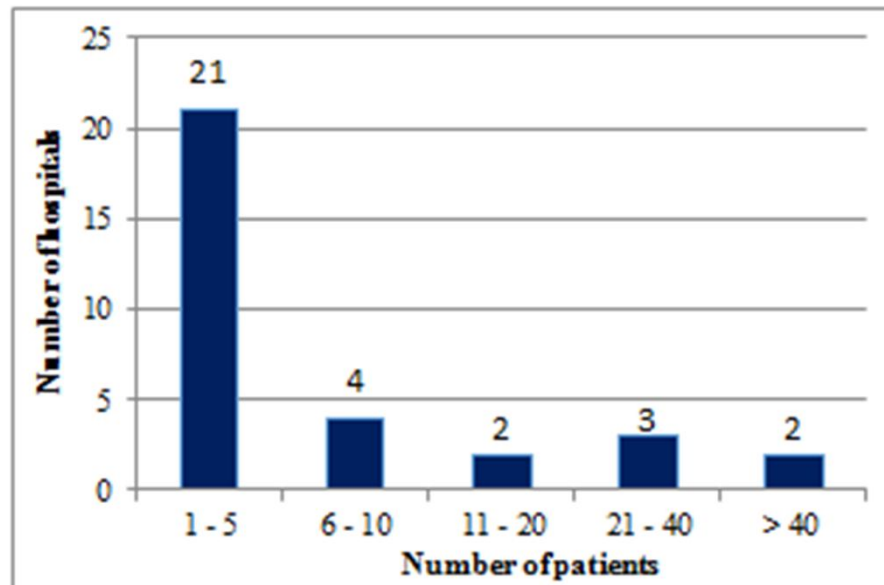


Fig. 1. Number of patients treated with OPAT at home in 2014 (N = 53).

KCE REPORT 250

## IMPLEMENTATION OF HOSPITAL AT HOME: ORIENTATIONS FOR BELGIUM



2015

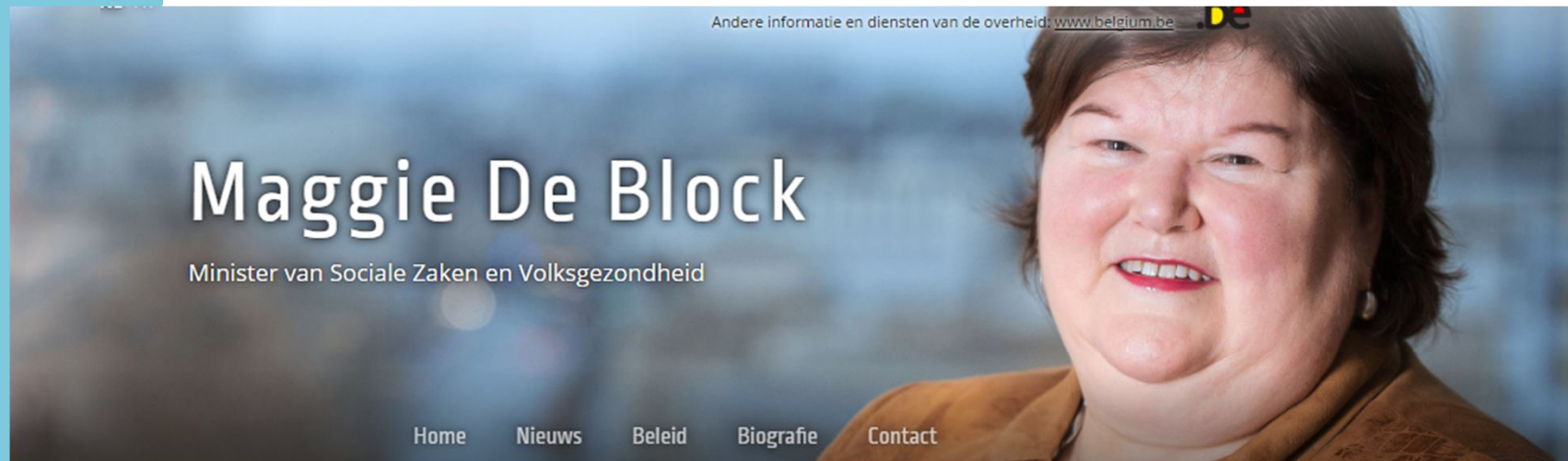
[www.kce.fgov.be](http://www.kce.fgov.be)

.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.

© 2017 Universitair Ziekenhuis Gent



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 thuisnitalisatie. Het is de tweede oproep voor pilootnrierten in het kader van

# OPAT in Belgium .. towards a Belgian national OPAT guideline

## ➔ 30/03/2017 BVIKM symposium

- ➔ Ideal forum to share experience in order to develop Belgian national OPAT guidelines in collaboration with all stakeholders

