



Recording OPAT Treatment Episodes and
Outcomes – Review of the UK Patient
Management System and UK Outcomes Registry

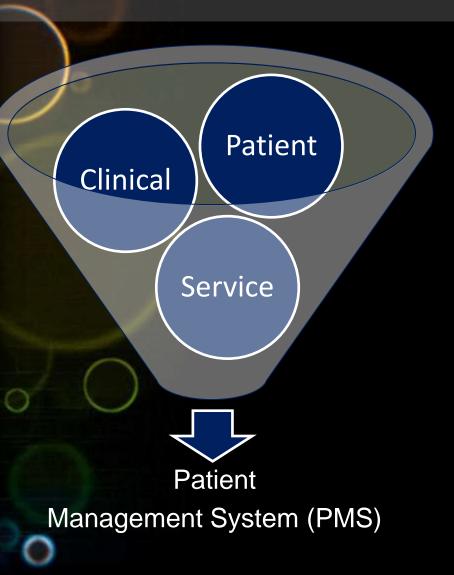
Mark Gilchrist

## BSAC UK OPAT Initiative 2013

UK Patient Management System Update &
Introducing UK OPAT Outcomes Registry

Mark Gilchrist
On behalf of the BSAC OPAT PMS & Registry workstream
Matt Laundy, Carolyn Hemsley, Sanjay Patel

June 2013



Focussed on ensuring that the PMS has accurate reporting of the OPAT process and outcome measures



Both management and the OPAT team need such reports to guide the service

Pre admissions

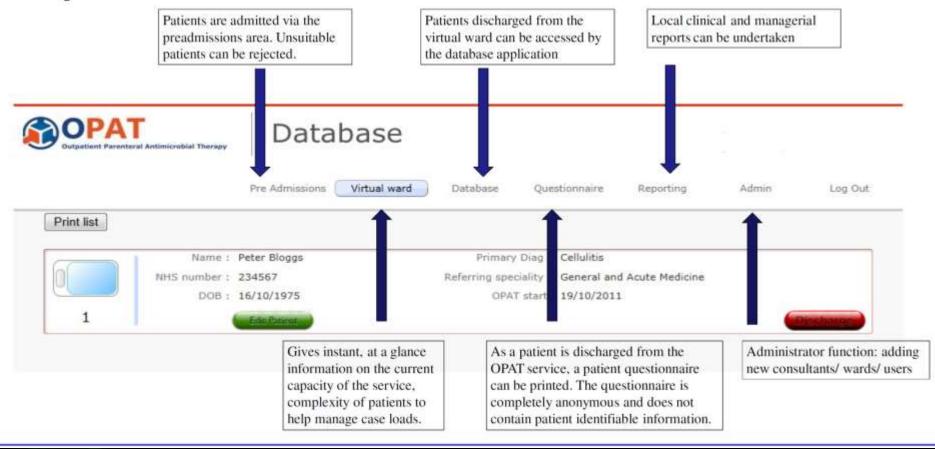
Virtual Ward

**Database** 

Questionnaire

Reporting

## Components of the Patient Management System



Period: May 2012 – May 2013

- Installed
  - 16 OPAT centres
- Pending installations (contracts received)
  - 1 OPAT centres
- Pending installation (OPAT lead approval/ awaiting IT approval)
  - 24 OPAT centres

- What have we learnt from the 16 centres?
  - Smooth implementation in centres
  - Very few technical issues
    - Mostly user issues
  - Initial feedback on benefits of system very positive
  - Users willing to send in suggestions for future development

Look/Feel

**Technical** 

Process

- Already sent those 16 centres upgrades around:
  - Difficulty creating / downloading reports,
  - Issues saving patient episode data,
  - Inability to confirm new patient episodes for existing patients in particular conditions,
  - Inability to add new patients cannot after December 2012,
  - System now accepts patients with a date of birth prior to 1930.

- V2 will address
  - Individual trust reports on patient level data
  - Inclusion of additional data fields relevant to clinical practice
  - Additional functionality to enhance usability
  - Potential deployment on N3 server

- NB: V2 cannot change existing fields only add to them
- V2 is hoped to be released November 2013

## UK Patient Management System - Paediatric

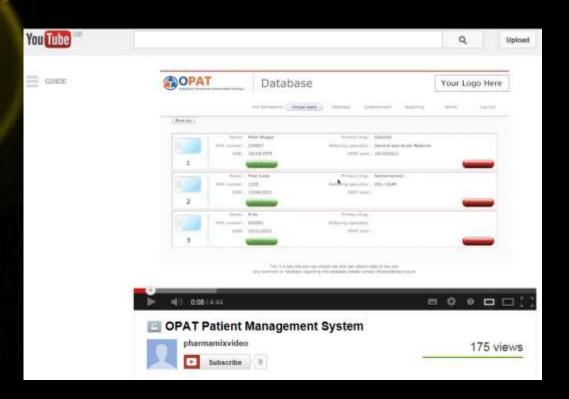
Same design at the existing system

Similar data fields – adapted for paediatric use

Will contain recommendations from the paediatric GPR's

 Currently being trialled in Southampton Childrens Hospital

- For more information, visit www.e-opat.com
- Demonstration video on You Tube



## **UK OPAT Outcomes Registry**





#### BSAC - Supporting the clinical need for OPAT



Log in to access detailed reports and upload your quarterly data.

The OPAT National Outcomes Registry has been designed to produce real time data on OPAT services across the country, allowing valuable knowledge and experiences to be shared and in doing so enabling the OPAT UK landscape to be shaped.

Users are able to submit anonymised OPAT data to the Registry, from whichever patient management system they are using, on a quarterly basis. Ownership of the data will remain with the local OPAT service.

1	Email:	
	Password:	51
		Remember:   Login

Click here to register >

# Registration

Please enter your details				
Choose your centre:  Aberdeen Royal Infirmary				
If your centre is not listed <u>click here.</u>				
These are your login credentials. Please use your NHS email address.  Email:  Password:  Confirm:				
First Name:				

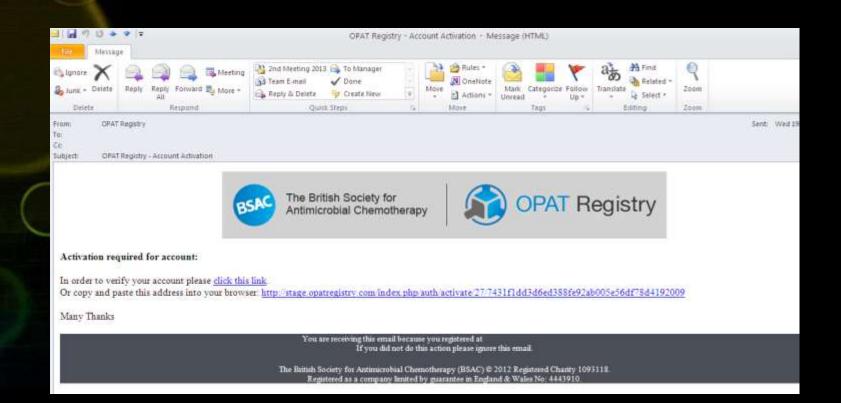
To request the addition of a new centre fill out the details below and submit them to BSAC for approval:

Centre Name: OPAT lead:		
Contact:		
Region:	London	

## Registration

NHS email address to register

NHS.UK or NHS.NET



## Disclaimer

Use of the registry implies that you have read and agree with our disclaimer. If you have not read the disclaimer please read it now and check the box to indicate you agree.

You can access the disclaimer at any point through the link in the footer of the website.

I have read and agree to the disclaimer.

Register >

- Registration
- Viewing data
- Data entry
- Ownership of registry and submitted data
- Publication of data
- Terms & Conditions

## Registry

Divided into three distinct sections

Centre Information Inputting of data

Analysis







- Hospital
- Region
- OPAT Lead
- Contact details
- Users registered to that centre

- Allows upload of data
- Come back to incomplete data
- View entered data

- Two levels of access
- Restricted reporting
- Full reporting

# Registry – Inputting of data

#### Input Quarterly Data

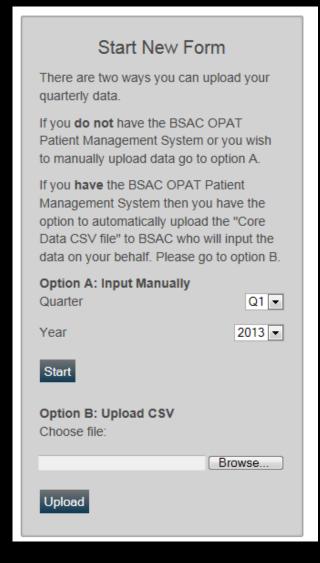
For data integrity purposes please only upload data using the following 'quarterly' definitions:

Q1: January, February, March

Q2: April, May, June

Q3: July, August, September

Q4: October, November, December



#### Quarterly Data Incomplete

You have started 1 quarterly data input as indicated below. Please note these quarters have not been submitted to the registry.

2013



## Data Successfully Submitted to the Registry

You have finished and submitted 12 quarters of OPAT data. To view your submitted data please click on the relevant quarter below.

2010



2011



2012

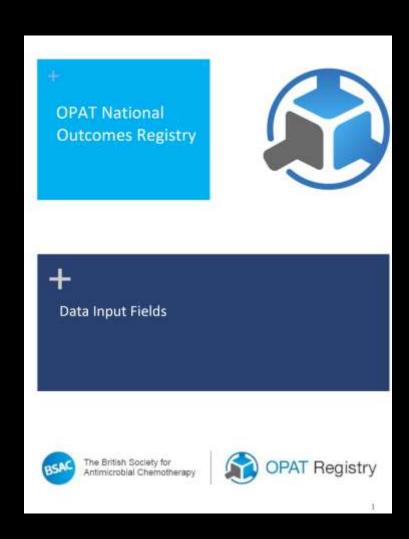


2013



#### **OPAT Registry Input Fields**

Click here to view and download the complete list of input fields required to submit quarterly OPAT data.



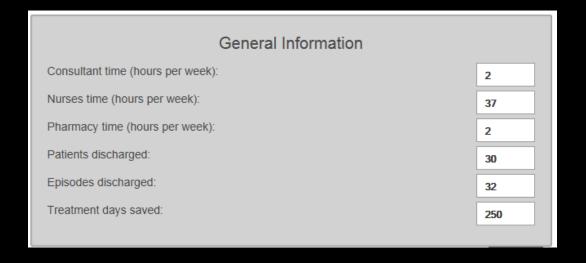
#### **Data Entry**

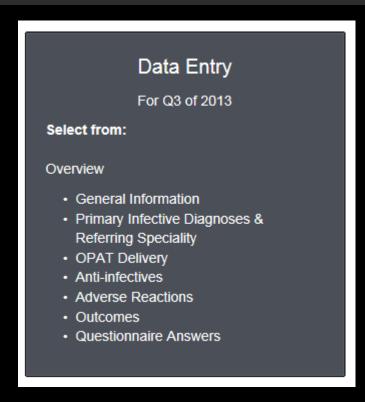
For Q3 of 2013

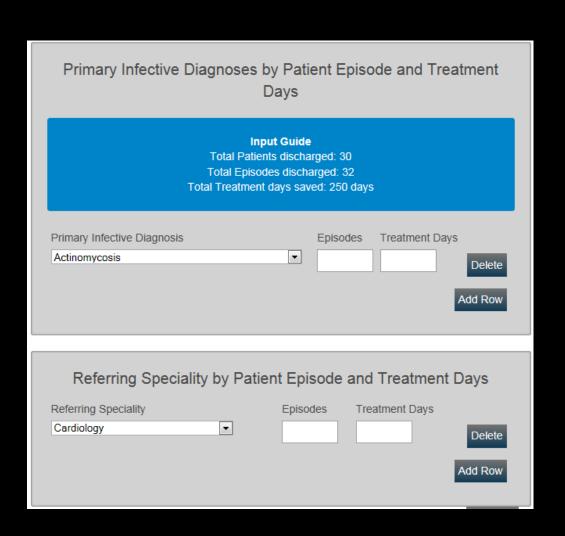
#### Select from:

#### Overview

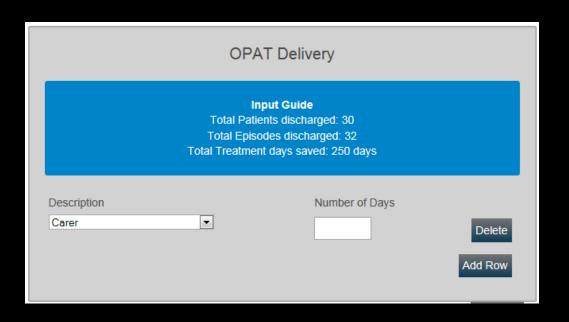
- · General Information
- Primary Infective Diagnoses & Referring Speciality
- OPAT Delivery
- · Anti-infectives
- · Adverse Reactions
- Outcomes
- · Questionnaire Answers

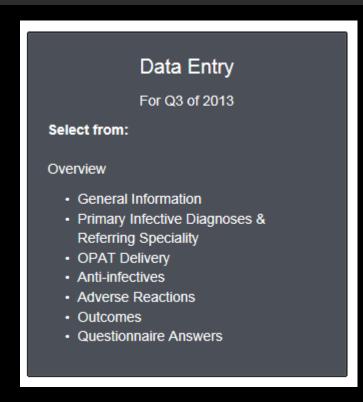




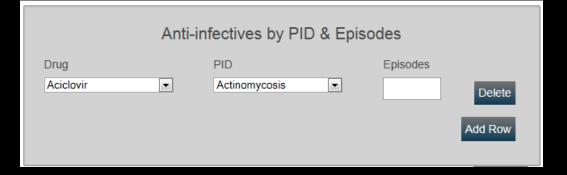


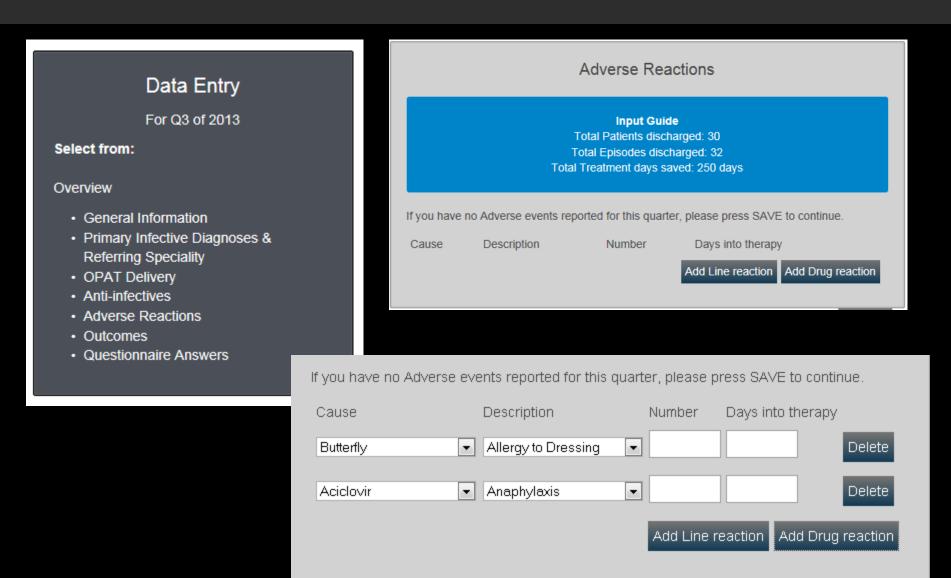
# Data Entry For Q3 of 2013 Select from: Overview General Information Primary Infective Diagnoses & Referring Speciality OPAT Delivery Anti-infectives Adverse Reactions Outcomes Questionnaire Answers











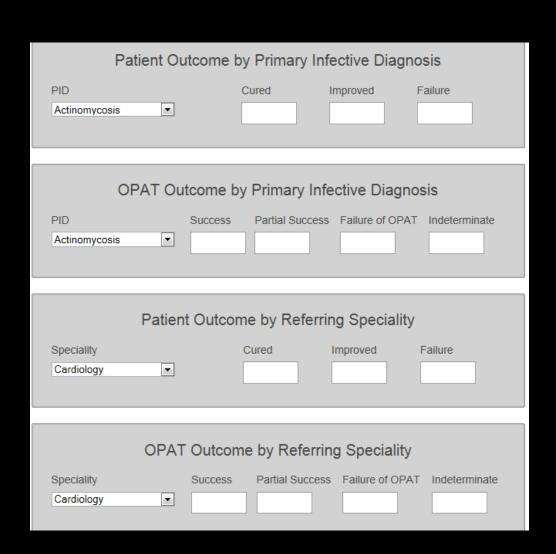
#### **Data Entry**

For Q3 of 2013

#### Select from:

#### Overview

- · General Information
- Primary Infective Diagnoses & Referring Speciality
- · OPAT Delivery
- · Anti-infectives
- · Adverse Reactions
- Outcomes
- Questionnaire Answers



#### **Quarterly Data Overview**

#### General Information

Consultant time (hours per week):

Nurses time (hours per week):

Pharmacy time (hours per week):

Patients discharged:

Episodes discharged:

Treatment days saved:

#### Primary Infective Diagnoses

- The total episodes in this section (0) do not equal the "Episodes "General Information" section (32).
- The total treatment days in this section (0) do not equal the "Tre "General Information" section (250).

No primary infective diagnoses

#### Submit and Finish

Please make sure that all the data is valid and that you have input all sections before submitting.

It appears you have not submitted data for the following sections of the form. If you do not have any data to enter for these sections please check the boxes below to confirm you are happy to submit the form without this data. Please remember that once you have submitted the form you will be unable to manually update the data without first contacting BSAC.

- I do not have data for "Primary Infective Diagnoses"
- I do not have data for "Referring Specialities"
- I do not have data for "OPAT Deliveries"
- I do not have data for "Anti-infectives"
- I do not have data for "Adverse Reactions"
- 🔲 I do not have data for "Anti-infectives Median Day into Therapy"
- 🔲 I do not have data for "Anti-infectives by PID and Episodes"
- I do not have data for "Patient Outcomes by PID"
- I do not have data for "OPAT Outcomes by PID"
- I do not have data for "Patient Outcomes by Referring Speciality"
- □ I do not have data for "OPAT Outcomes by Referring Speciality"
- I confirm that I have read the disclaimer and agree to the terms and conditions.

There are errors which need to be corrected before you can submit this form. Please scroll back up and correct them.

## Registry - Reporting

#### Restricted Reports

Your centre currently has access to restricted registry reports. These reports give top level data on OPAT centres within your region. You may also compare this to another region.

If you wish to have access to more detailed registry information, you should submit OPAT data for the last quarter from your centre to gain access to the full reports.

Please select which type of report and which region you would like to compare your regional OPAT data to using the boxes below.

Report	Overview	*
Region 1		London
Region 2	West Midlands	~
From Quarter & Quarter	Year	Q1 <u>~</u>
Year		2013 💌
To Quarter & Yo Quarter Year	ear	Q1 🕶 2013 🕶

Build Report

#### Full Reports

Your centre currently has access to full registry reports. This enables you to compare your centre with other specific centres or to an entire region.

Please select which type of report and which centre or region you would like to compare your OPAT data to using the boxes below.

Report	Overview
Compare	» My centre
То	Abertawe Bro Morgann ▼
From Quarter	Q1 💌
Year	2013 🕶
<b>To</b> Quarter	Q1 🔻
Year	2013 🔻
Build Report	

## Restricted Reports

#### Restricted Reports Your centre currently has access to restricted registry reports. These reports give top level data on OPAT centres within your region. You may also compare this to another region. If you wish to have access to more detailed registry information, you should submit OPAT data for the last quarter from your centre to gain access to the full reports. Please select which type of report and which region you would like to compare your regional OPAT data to using the boxes below. Report Overview Region 1 London. Region 2 West Midlands From Quarter & Year Quarter Q1 🕶 Year 2013 To Quarter & Year Q1 🕶 Quarter Year 2013 Build Report

## Region level only

- Overview
- Referring speciality
- Primary Infective diagnosis
- Anti-infective by patient episode
- Adverse Event

Primary Infective Diagnosis

From: Q1 2013 To: Q1 2013

#### Choose Report

Overview

Referring Speciality

Primary Infective Diagnosis

Anti-infectives

Adverse Events

#### Export

Export to CSV file for use in Microsoft Excel Treatment Days

Episodes

London		West Midlands	
Name Treatment Days		Name	Treatment Days
Prosthetic joint - knee	300	Cellulitis	100
Cellulitis	50	Prosthetic joint- hip	45
Hepatic abscess	50	Diabetic foot infection (no osteomyelitis)	30
Bronchiectasis	50	Osteomyelitis - surgically related	25
Endocarditis	50		

Anti-infectives

From: Q1 2013 To: Q1 2013

#### Choose Report

Overview

Referring Speciality

Primary Infective Diagnosis

Anti-infectives

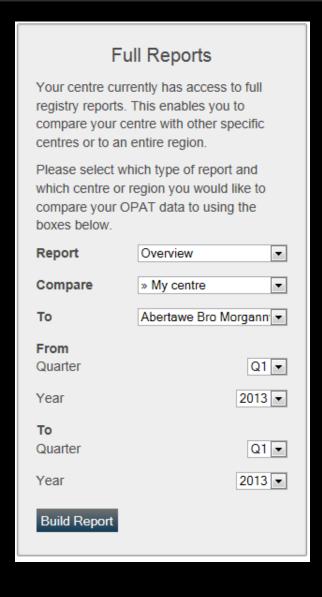
Adverse Events

#### Export

Export to CSV file for use in Microsoft Excel Episodes

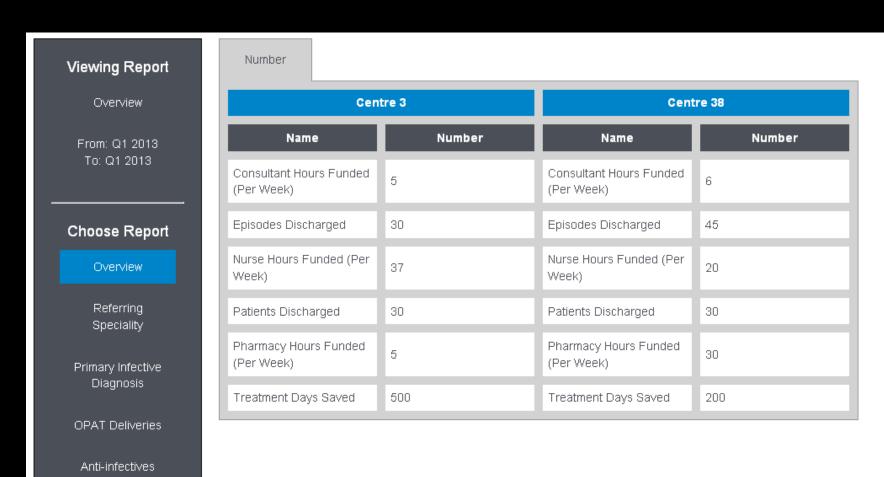
London		West Midlands	
Name	Episodes	Name	Episodes
Ceftriaxone	17	Ceftriaxone	25
Teicoplanin	9	Teicoplanin	10
Ceftazidime	5	Daptomycin	10
Daptomycin	2		

## Full Reports



## Region + Centre Specific

- Overview
- Referring speciality
- Primary Infective diagnosis
- Anti-infective
- OPAT delivery
- OPAT / Pt outcome
- Adverse Event



NB: Anonymised centre information

Referring Speciality

From: Q1 2013 To: Q1 2013

#### Choose Report

Overview

Referring Speciality

Primary Infective
Diagnosis

OPAT Deliveries

Treatment Days Episodes Patient Outcomes OPAT Outcomes

Centre 3		Centre 38		
Name	Treatment Days	Name	Treatment Days	
Orthopaedics/Trauma	300	Care of the Elderly	120	
Emergency Department	50	Orthopaedics/Trauma	45	
Hepatobiliary	50	General and Acute Medicine	35	
Respiratory Medicine	50			
Cardiology	50			

Referring Speciality

From: Q1 2013 To: Q1 2013

#### Choose Report

Overview

Referring Speciality

Primary Infective Diagnosis Treatment Days Episodes Patient Outcomes

Centre 3				Centre 38	:		
Name	Cured	Improved	Failure	Name	Cured	Improved	Failure
Cardiology	2	0	0	Care of the Elderly	10	5	0
Emergency Department	12	0	0	General and Acute Medicine	10	3	0
Hepatobiliary	2	0	0	Orthopaedics/Trauma	0	2	0
Orthopaedics/Trauma	7	1	1				
Respiratory Medicine	5	0	0				

**OPAT Outcomes** 

Primary Infective Diagnosis

From: Q1 2013 To: Q1 2013

#### Choose Report

Overview

Referring Speciality

Primary Infective Diagnosis Treatment Days Episodes Patient Outcomes OPAT Outcomes

Cen	tre 3	Centre 38		
Name Treatment Days		Name	Treatment Days	
Prosthetic joint - knee	300	Cellulitis	100	
Cellulitis	50	Prosthetic joint- hip	45	
Hepatic abscess	50	Diabetic foot infection (no osteomyelitis)	30	
Bronchiectasis	50	Osteomyelitis - surgically related	25	
Endocarditis	50			

OPAT Deliveries

From: Q1 2013 To: Q1 2013

#### Choose Report

Overview

Referring Speciality

Primary Infective Diagnosis Number of Days

Cen	tre 3	Centre 38		
OPAT Delivery Number of Days		OPAT Delivery	Number of Days	
Community Nurse (NHS)	400	Community Nurse (NHS)	120	
OPAT Clinic	60	Community Nurse (Non - NHS)	40	
Self/Family	40	Self/Family	40	

Anti-infectives

From: Q1 2013 To: Q1 2013

#### Choose Report

Overview

Referring Speciality

Primary Infective Diagnosis

OPAT Deliveries

Anti-infectives

Treatment Days Episodes Route Median Duration of Therapy by PID

Centre 3		Centre 38	
Name	Treatment Days	Name	Treatment Days
Teicoplanin	300	Ceftriaxone	80
Ceftriaxone	200	Teicoplanin	60
Daptomycin	50	Daptomycin	60
Ceftazidime	50		

Anti-infectives

From: Q1 2013 To: Q1 2013

#### Choose Report

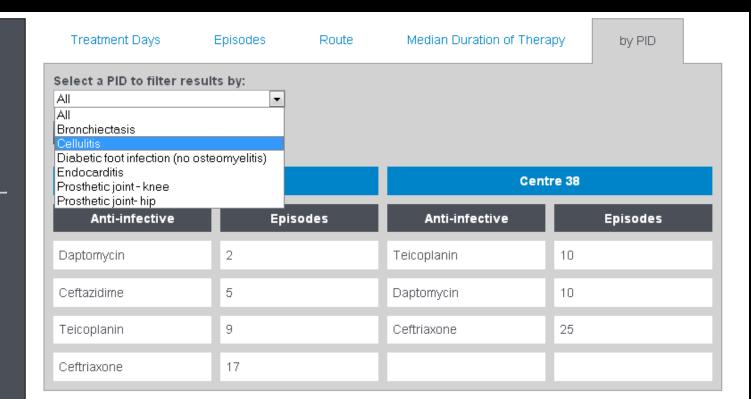
Overview

Referring Speciality

Primary Infective Diagnosis

**OPAT Deliveries** 

Anti-infectives



Anti-infectives

From: Q1 2013 To: Q1 2013

#### Choose Report

Overview

Referring Speciality

Primary Infective Diagnosis

OPAT Deliveries

Anti-infectives

Treatment Days Episodes Route Median Duration of Therapy by PID

#### Cellulitis

Anti-infectives used in conjunction with Cellulitis as the primary diagnosis

Reset

Centre 3		Centre 38			
Anti-infective	Episodes	Anti-infective	Episodes		
Ceftriaxone	12	Teicoplanin	5		
		Daptomycin	10		
		Ceftriaxone	15		

Adverse Events

From: Q1 2013 To: Q1 2013

#### Choose Report

Overview

Referring Speciality

Primary Infective Diagnosis

OPAT Deliveries

Anti-infectives

Days Into Therapy Episodes Line or Drug

Centre 3			Centre 38				
Adverse Event	Туре	Cause	Days Into Therapy	Adverse Event	Туре	Cause	Days Into Therapy
Line occlusion	Line	PICC	25	Nausea/ Vomitting	Drug	Teicoplanin	2
Hepatitis	Drug	Ceftriaxone	10				

## Registry – next steps

- Current PMS centre invitations have gone out to uploading data to the registry
- Developing the Paediatric registry
- Finalising document for non PMS centres to upload their quarterly data
- Updated registry will follow in November 2013 once PMS update

## Overall – next steps

May 2013

Registry Launch for PMS users

Invite non PMS users to add data to the registry Paediatric PMS + Registry development

Feedback Meeting for PMS/ Registry users

Finalise registry v2 design

Finalise PMS v2 design

November 2013

V2 Registry (Adult)

V2 Registry (Paeditric)

V2 PMS (Adult)

V2 PMS (Paediatric)

## Summary

- Registry designed to allow sharing of OPAT data
- Establish, build, grow OPAT services
- Paediatric & Adult services
- Focus on key metrics of OPAT service
- Listening to OPAT services Version 2
- Enable the OPAT UK landscape to be shaped
- Potential to bringing together OPAT centres locally, nationally and internationally

## Acknowledgements

- Registry/ PMS Workstream
  - Carolyn Hemsley/ Sanjay Patel/ Matthew Laundy
- BSAC
  - Tracey Guise & Team
- Pharma-mix
  - Terri Martin/ DebbieLancaster/ Gurpal Virdee/Bob Gilkes
- All 16 PMS users

### **OPAT teams**

- Imperial Teams
  - F. Sanderson/ R.Cele
- Sheffield Team
  - A. Chapman
  - A. Omrani (Wales)
- Scotland Teams
  - A. Seaton/
  - D. Nathwani/ J. Morrison
- Pan London OPAT Teams
  - M. Laundy/ A. Breathnach
  - N. Price/ C. Hemsley
  - S. Hopkins/ P. Smith
  - A. Lessing
  - F. Sanderson