



# Encompass and OPAT delivery

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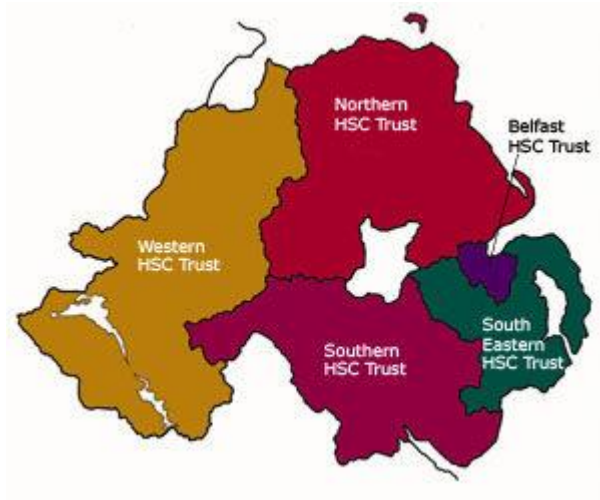
Dr P Nelson South Eastern Trust



# Introduction

- Current NI infrastructure and OPAT systems
- What is Encompass
- How can this improve OPAT services locally
- Discussion

# Current systems available



- Population of 1.9 million people
- Each trust has own paper based / IT infrastructure
- ECR regional however no uniform way of highlighting OPAT
- Data collected by each trust in different systems and not compared

# Regional OPAT group for NI

- Paused during the pandemic and restarted in 2023
- Aim to promote good practice and share learning at a regional level
- Benchmarking of services and goals for the future e.g self OPAT
- Pertinent with arrival of regional electronic notes and prescribing

# Online clinical record South eastern trust

**evolve** Home Lists To Do Patient

**Add Panel**

**Patient Search**

Search Criteria

Hosp Number

NHS Number

Surname

Forename

Sex

Date of Birth

Patient Address

GP Code

GP Practice Code

Simple Search

**To Do Summary**

	Total	Urgent	Overdue
<a href="#">My Items</a>	0	0	0
<a href="#">My Sent Items</a>	n/a	n/a	n/a
<a href="#">Alcohol Liaison Referral</a>	1	0	0
<a href="#">Clinical Actions</a>	2869	0	0
<a href="#">Diabetes Referral</a>	2	0	0
<a href="#">Dietetic Referral</a>	22	22	0
<a href="#">Dietetics</a>	166	0	0
<a href="#">Endocrinology Referral</a>	2	0	0
<a href="#">Gastro Referral</a>	5	2	0
<a href="#">Hosar Referral</a>	3	1	0
<a href="#">Medical Tasks</a>	5437	1508	0
<a href="#">Microbiology Referral</a>	0	0	0
<a href="#">Neurology Referral</a>	4	1	0
<a href="#">Nursing Tasks</a>	16625	2955	0
<a href="#">Occupational Therapy</a>	2	0	0
<a href="#">Physiotherapy</a>	504	0	0
<a href="#">Podiatry</a>	6	0	0
<a href="#">Respiratory Referral</a>	2	0	0
<a href="#">Rheumatology Referral</a>	3	0	0
<a href="#">SALT</a>	238	0	0
<a href="#">Stroke Tasks</a>	22	0	0
<a href="#">Transition Plan</a>	0	0	0
<a href="#">Workflow Errors</a>	1	0	0

# Current system in South eastern trust

- Electronic notes but not used by all specialties in the trust
- Local community teams use it and this is very efficient online system
- Regional ortho plastics service in trust – documentation in multiple sources
- Data for benchmarking difficult to access and incomplete in some cases

# What is Encompass?

- Integrated electronic health record based around EPIC system
- American system used internationally and over 305 million patients to date have records in the system
- Both hospital and community teams will use the system together allowing integration of care
- GPs are not included in this process

# What benefits can encompass bring?

- Electronic prescribing will allow in depth analysis into drug use and trends
- Powerful antibiotic stewardship tool in real time
- Patients can access records via a patient portal / manage appointments / communicate with teams
- Buggy – infection control program



# Timeline for encompass

- Go live date 9<sup>th</sup> November 2023 for SE trust
- Remaining trusts go live sequentially after this at 6 monthly intervals
- Learning from each trust as launches progress for successes and failures
- Structured assessments at regular intervals before launch

# Regional LIMS

## LIMS Core

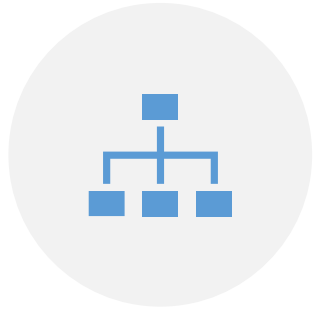
Core LIMS is the Core Laboratory Information Management System.



## About LIMS Core

This project will deliver a significantly modernised, improved and rationalised LIMS for HSCNI. This will bring benefits of improved clinical care and risk and inequality reduction.

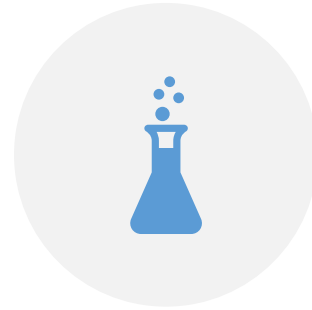
# Regional pathology blueprint



NEW MANAGEMENT  
STRUCTURE



REGIONAL LIMS ALL  
DISCIPLINES



CONSOLIDATION LAB  
ACTIVITY



REGIONAL WORKFORCE  
AND TRAINING PLAN

# Encompass and OPAT services

- Integrated community and hospital record will allow closer working and monitoring of patients
- All users will be able to see OPAT treatment plans and progress
- E prescribing will reduce errors and allow efficient monitoring
- Bench marking and sharing of practice will be significantly easier for future

# Encompass and OPAT services

- 3 years of previous lab results will be transferred to EPIC system
- Testing underway to ensure data appears appropriately
- ECR will remain as a legacy system for time being and still accessible
- Recently agreed regional prescriptions for commonly used OPAT drugs

# Clinician builders

- Role for clinicians to receive training on how to adapt and modify system for own specialty and local needs
- Templates can be constructed to aid documentation and data entry
- Smart phrases and links built into text to collate information

**MB**

**Maria-RX BANSHEE**  
 Female, 46 y.o., 1/6/1977  
 MRN: 999220552  
 HCN: 062 849 5528  
 Bed: TRN01 Ward 4 North  
 Resuscitation: Assume Full (no ACP docs)

Search (Ctrl+Space)

Isolation: None  
**Antimicrobial Empiric Review**

Sam STETHOSCOPE, MD  
 Lead Consultant

Allergies: Penicillins

ADMITTED: 1/6/2023 (4 D)  
 Patient Class: Inpatient  
 Endocarditis

Height: 166 cm  
 Last Wt: 58 kg  
 BMI: 21.05 kg/m<sup>2</sup>

NEW RESULTS (LAST 36H)  
 Lab (1)  
 Micro (1)

ACTIVE MEDICATION (1)  
 Scheduled (1)

Current Programmes: None

**Summary**

Overview Flowsheet Vitals Intake/Output Weights Labs Rad Micro Meds History Event Log

Low Fall Risk

**BestPractice Advisories**

Click to view active BestPractice Advisories

**Vital Signs** [Timeline](#)

[View Graph](#)  
None

**I/O**

[View Table](#)  
None

**Notes from Clinical Staff** [Comment](#)

**NEWS2** [Report](#)

No data available.

**Respiratory** [Timeline](#)

[Lab Data](#) (Last 48 hours)  
None

[O2/Vent Data](#) (Last 48 hours)  
None

**Selected Labs** [Timeline](#)

(Up to last 2 results from the past 72 hours)

[Switch View](#)  
None

**Medication** [Report](#)

Scheduled

Medication	Ordered Dose/Rate, Route, Frequency	Last Action
vancomycin 750 mg in 250 mL diluent solution infusion	750 mg, IV, Every 12 hrs SCH	Stopped, 04/06 11:30

**Treatment Team** [Chat With All Active Members](#)

Provider	Role	Specialty	Contact
Sam STETHOSCOPE, MD	Attending Clinician	General Medicine	--

**Imaging** [Report](#)

(Last 72 hours)  
None

**Hospital Problems**

Medium

**Lines, Drains, and Airways** [Timeline](#)

[Switch View](#)

Peripher... 3...



Indication:

- Sepsis Syndromes
- Bacteraemia (unknown source)
- Respiratory
- Urinary Tract Infection
- Skin and Soft Tissue
- Gastrointestinal**
- Head and Neck
- Bone and Joint
- Cardiovascular
- Central Nervous System
- Obstetrics
- Gynaecology
- Sexually Transmitted Infection
- Medical Prophylaxis
- Surgical Prophylaxis
- Decolonisation
- Other

Gastrointestinal indications

- Infectious gastroenteritis
- Intra-abdominal infection - non-severe or community acquired
- Intra-abdominal infection - severe or hospital acquired**
- Liver abscess
- Pancreatitis
- SBP
- Prophylaxis for SBP
- H.pylori infection
- Prophylaxis for acute UGIB and variceal haemorrhage
- C.difficile infection
- Other

Product:

**ERTAPENEM 1G POWDER FOR CONCENTRATE FOR SOLUTION FOR INFUSION**

Instructions Method:

- Specify Dose, Route, Frequency**
- Taper/Ramp
- Combination Dosage

Dose:

1 g 1 g

Route:

**Intravenous**

Frequency:

Daily Daily

Duration:

14 Doses Days 7 days 14 days 28 days 6 weeks 3 months

Starting: 5/6/2023 Ending: 19/6/2023 First fill:

Dispense:

Days/Fill: Full (14 Days) 30 Days 90 Days



# Pitfalls

- Hundreds of hospitals have transitioned before – poor outcomes commonly due to lack of engagement and training pre implementation
- Hundreds of clinical “super users” identified to help at launch in SE trust
- Clinicians helping to identify work loads in each specialty pre launch
- Doctors training doctors

# Summary

- Encompass part of wider digital transformation in NI
- Paperless system with significant benefits for OPAT delivery – integration of community teams / bench marking / patient portal
- Regional LIMS aiming to launch this year – testing underway

