

Perioperative Care of Older People undergoing Surgery The (POPS) Network

June 2021



Launch Event
Part One

Agenda

10:00

Welcome and introduction to the day **Caroline Dove** CEO NHS Elect

The POPS Model explained **Jugdeep Dhesi** Consultant GSTT and POPS Network Clinical Lead

The POPS Network offer **Simon Griffiths** Director and QI Associate, NHS Elect

Salford POPS **Arturo Vilches-Moraga** Consultant, Salford Royal NHS FT

BREAK (10 mins)

Liverpool POPS **Mark Johnston** Consultant, Liverpool University Hospitals NHS FT

Dartford & Gravesham POPS **Anna Whittle** Consultant, Dartford & Gravesham NHS Trust

Measurement for Improvement **Matt Tite** Director and Measurement Lead, NHS Elect

Wants and Offers **Lisa Godfrey** Director and QI Associate, NHS Elect

What's Next? **Simon Griffiths** Director and QI Associate, NHS Elect

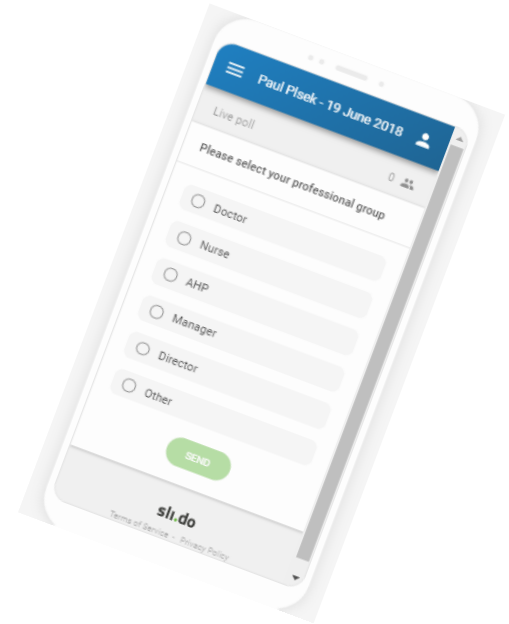
Summary and Next Steps **Jugdeep Dhesi** Consultant GSTT and POPS Network Clinical Lead

13:00 - CLOSE

slido

Open a browser on any laptop, tablet or smartphone

- Go to [slido.com](https://www.slido.com) or scan the QR code below
- Enter the event code **#POPSLaunch1**
- Use the polls to give us feedback about the day



The POPS Model Explained

Dr Jugdeep Dhesi

Dr Jugdeep Dhesi

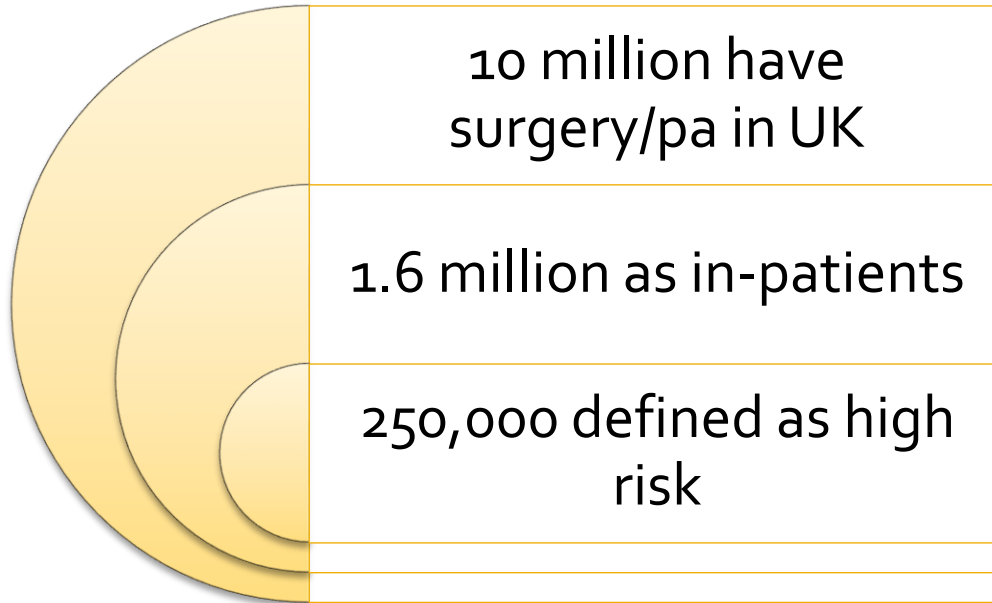
The NHS Elect POPS Network

Perioperative medicine for older people

Jugdeep Dhesi, Geriatrician
Perioperative medicine for older patients
undergoing Surgery (POPS)
Dept of Ageing and Health
Guy's and St Thomas' NHS Foundation Trust



Where do we even start?!



Clinician reported outcomes

- Morbidity
- Mortality

Patient reported outcomes

- Recovery
- Experience, satisfaction
- Regret

Process related outcomes

- LOS, readmissions
- Harm and complaints
- Cost to informal and/or formal sectors

Risk related to procedure & to patient

Procedure specific

Low risk

Intermediate risk

Major

Complex

Site of surgery

Intra-cavity

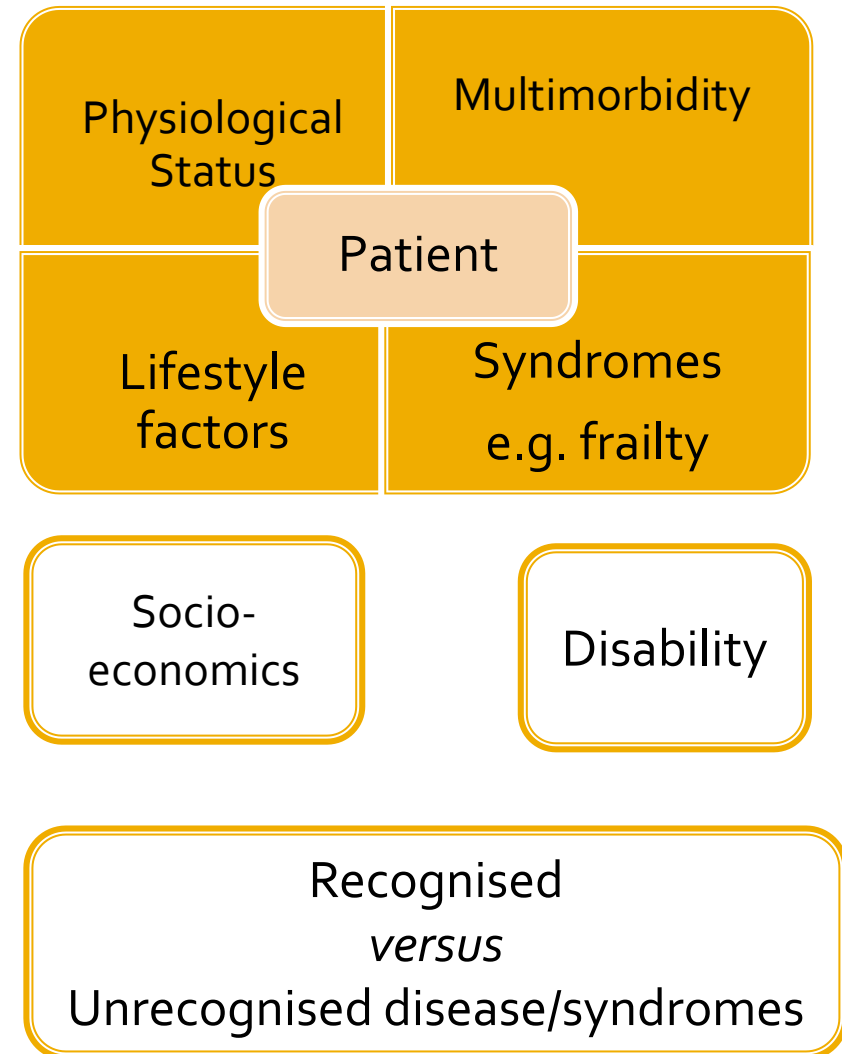
Non-cavity

Timing

Elective

Expedited

Emergency



Perioperative care for 'high risk' patients

Stage of periop pathway	What should we do?
Pre-op Assessment	Assess of severity of known conditions Screen for undiagnosed issues Assess severity of newly diagnosed conditions
Pre-op Optimisation	Optimise comorbidities (eg diabetes) Optimise multimorbidity (eg PD and IHD) Optimise multifactorial conditions (eg frailty) Modify lifestyle related risk factors (eg smoking, alcohol, BMI)
Pre-op Shared decision making	Quantify risk using appropriate tools Employ Benefits, Risks, Alternatives, do Nothing approach

Perioperative care for 'high risk' patients

Stage of periop pathway	What should we do?
Pre-op Planning of hospital stay	<p>Consider day case or admission</p> <p>Be clear about admission; where & when including place and day of week</p> <p>Plan site of postoperative care; ward, enhanced care, level 2/3</p>
Postoperative management	<p>Identify anticipated complications early</p> <p>Use EB approaches for postop medical complications (eg AF, ACS, HAP, delirium)</p> <p>Proactively set realistic rehabilitation goals</p> <p>Ensure timely, safe, effective discharge</p> <p>Provide effective handover to community for LTC mx</p>

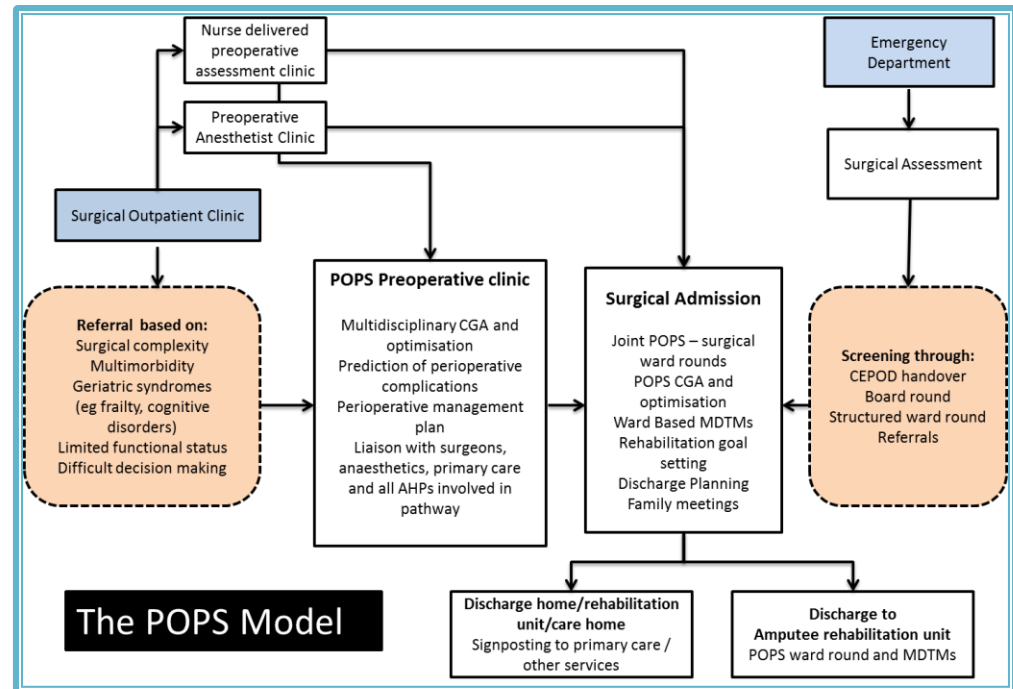
Can such approaches be put into practice?

Variety of approaches

- Traditional
- Co-management
 - Physician (eg POPS)
 - Anaesthetic (eg Exeter)
 - Hospitalist (eg US)

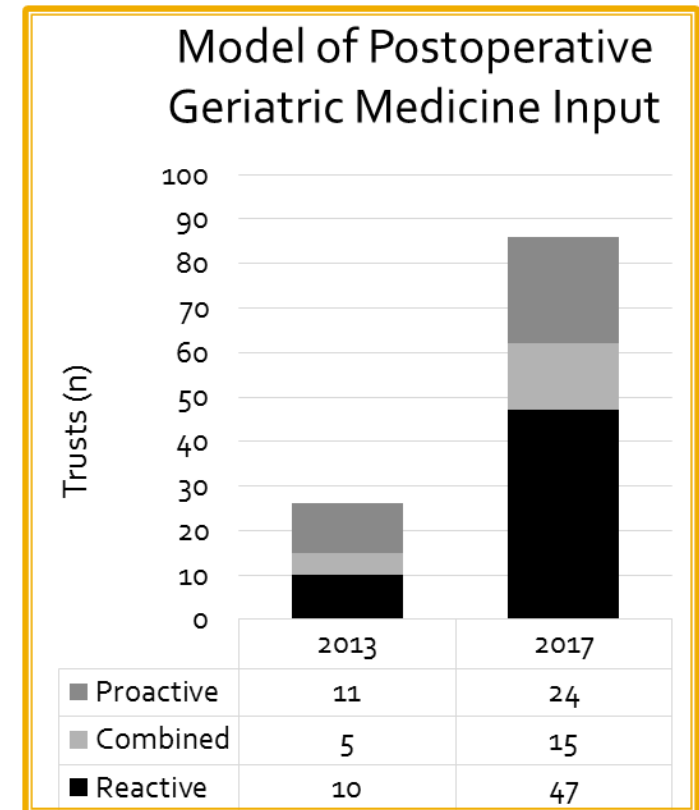
Case studies

www.CPOC.org.uk



Clearly innovation in perioperative care is happening in the UK...

- Response rate 127 of 152 NHS hospitals (88%)
- Preoperative clinics= 37
 - 20 existing clinics
 - 14 dedicated ger med
 - 3 jt clinics (anaes & ger med)
- Increase in
 - joint meetings
 - joint guidelines
 - surgical directorate funding

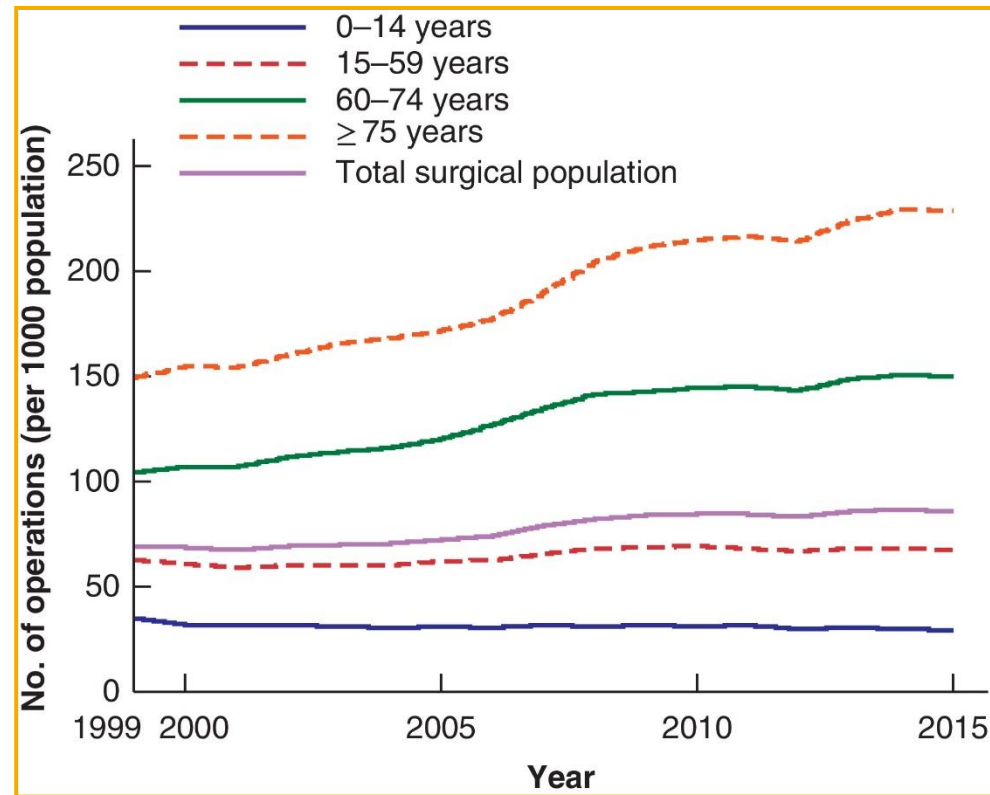


...and we are addressing change at system-level ...

Aspect	Consideration	What is happening?
Pathway & Ownership	'Surgery is a punctuation' Individual <i>versus</i> team	Building across organisations to develop necessary culture, behaviours
Clinical guidelines	Specialty/professional <i>versus</i> patient centred	e.g. Diabetes Anaemia Frailty
Education and training	Curricula Resources	Work with HEE - curriculum, resources
Workforce	Insufficient Alternative workforce	Developing the workforce - Transdisciplinary - ACP
Evaluation	QI/IS +/- traditional research	Linking with national audit/big data (GIRFT, PQIP, NELA/NHFD etc)

...but we need this to happen at pace...

Twice as many people aged over 65 years have surgery compared to those under 65 years



Fowler et al, BJS 2019 : 1012-1018

...particularly now!

5 million on the waiting lists

- High volume low complexity
- Low volume high complexity

Need to turn 'waiting lists' into 'preparation lists'

- Assessment
- Optimisation
- Shared decision making
- Planning
- Postoperative care

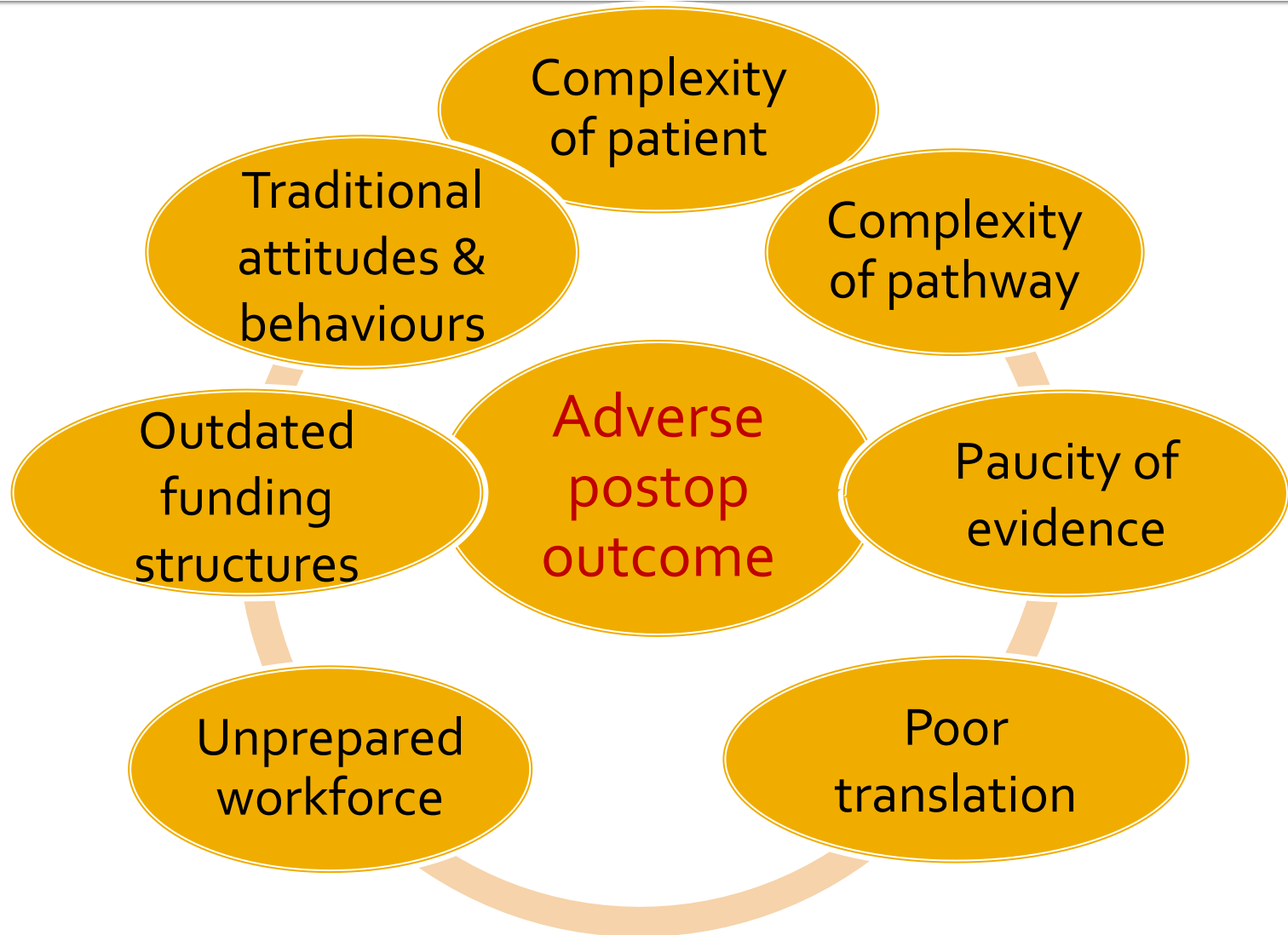
In this context, why is the NHS Elect POPS network useful?

1. Support and test systematic rollout at a 'small' number of sites
 - Through provision of 'hard' resources, coaching and mentoring, advice on measurement for improvement
 - Learn what works and what doesn't
2. Support early adopters to become regional centres
 - Learn from stage 1 to adapt the network to the needs of other NHS units
 - Build expertise and capacity to support stage 3
 - Engage teams in national work
3. Support systematic scale up/spread/roll out
 - At the speed at which it is required!!

What's happened so far and the questions arising?

Questions	Possibilities
Which population should we start with?	Surgical specialty (GI, vascular, urology), Pathology (cancer/non cancer) Admission route (elective/emergency)
Within those areas, how should we segment the population?	Age, frailty, multimorbidity, polypharmacy, SORT/ASA
What should be the KPIs?	Clinician reported Patient reported Process related
What is the required workforce?	Right now to deliver 6 month project In the future to deliver the service
What is the required knowledge?	Perioperative medicine Implementing change Measuring impact

The next steps...





The POPS Network Offer

Simon Griffiths

The POPS Team



Deborah Thompson
Programme Director



Dr Jugdeep Dhesi
Clinical Lead



Matt Tite
Measurement Lead



Simon Griffiths
QI Associate



Lisa Godfrey
QI Associate



**Emma
Backhouse**
Programme
Manager



Alice Clayton
Measurement Support

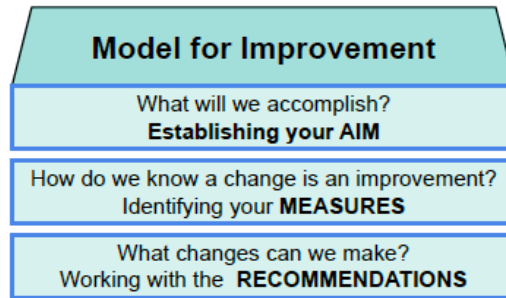


Kate Anley
Project
Manager



**Mandy
Rumley-Buss**
QI Associate

“Supporting teams to improve the peri-operative management of older people undergoing surgery”



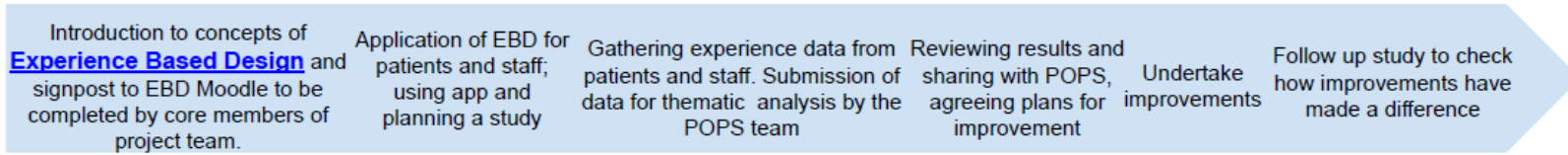
FIRST PHASE - introducing teams to the POPS Network approach and the Model for Improvement



MID POINT - checking in with Network teams on where you are, what data you're collecting and next steps.



FINAL PHASE - achievements over the last six months of the programme, and looking to the future.



Setting up your project::

- initial 'site visit'
- Quality Improvement expertise
- support to undertake Sustainability assessment
- developing plans to implement small cycles of change aligned to the recommendations
- online learning sessions

Implementing changes: :

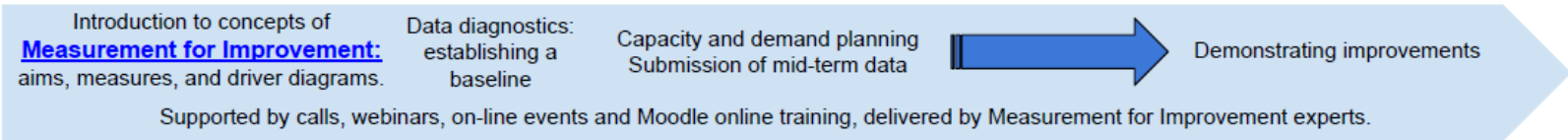
- implementing small cycles of change aligned to recommendations
- undertaking EBD with staff and patients
- collecting and interpreting data
- regular team calls
- clinical input and support
- spread education and training

Time for reflection:

- what changes have you made?
- what improvements are you seeing?
- what is the data telling you?
- what is working well and not so well?
- continuing PDSA change cycles

Planning next steps:

- what improvements are you seeing?
- what is the data telling you?
- what have you achieved?
- what changes do you want to keep, and what do you want to get rid of?
- what becomes 'business as usual' and how?



Regular calls with POPS QI Associate - Regular POPS Network calls - Clinical 1:1 calls - Regular webinar series - Regular email updates - Website resources

Programme overview

- Allocation of a Quality Improvement (QI) coach to support you with improvement plans.
- A six-month learning collaborative to include a 'core' event each month and supplementary workshops and webinars.
- Access to regular monthly meetings to network with other participating sites and systems, including to provide local programme managers with an opportunity to build links with one another and learn together.
- A set of communications' support to help promote the work being taken forward and create a 'movement' for change.
- A local web-based resource to provide material and tools for you to use in your work (including a POPs toolkit).
- Specific tools to help with measurement and the experience based design approach.

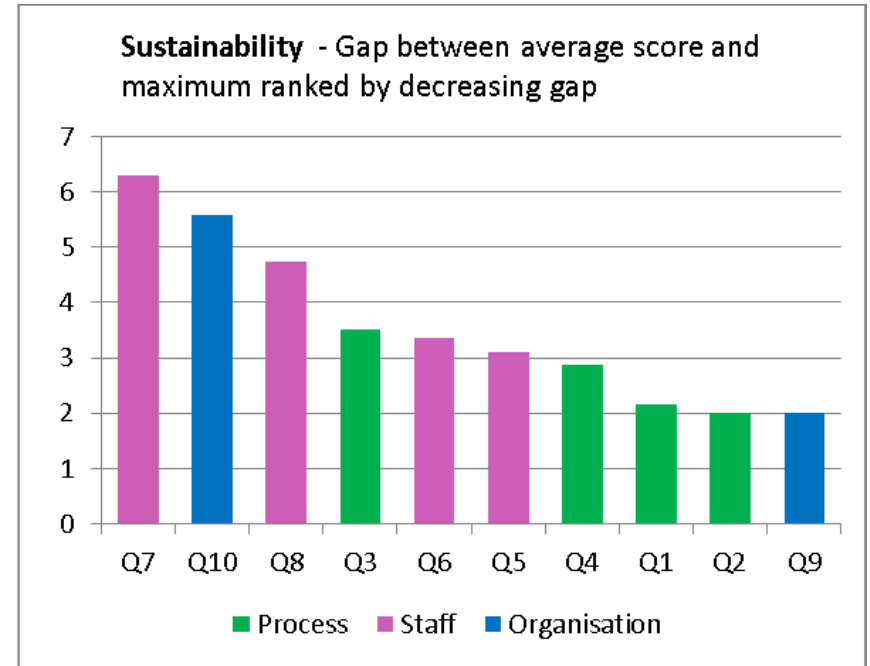
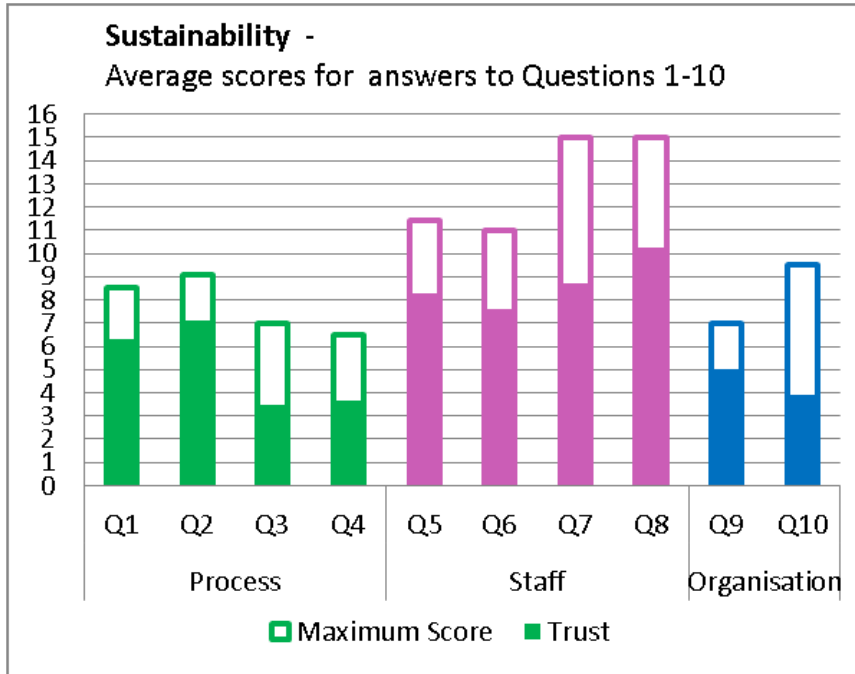
Programme core content

The core content each month will cover a range of topics, such as (dates to be confirmed):

- **22 June 2021** – World Café and Measurement for Improvement
- **August 2021** - What should we do about the workforce (Part One)? and Perioperative services in emergency surgery
- **September 2021** - What should we do about the workforce (Part Two)?, the EBD approach, and involving the public and patients in the co-design of services.
- **October 2021** - Clinical update/input, an update on measurement and a case study (the anaesthetist's perspective)
- **November 2021** - Research update in perioperative medicine, sharing our improvement journeys so far and a case study (changing the 'waiting list' to a 'preparation list').
- **December 2021** – The interface between primary and secondary care, QI and the 'Pixar Pitch', posters/improvement presentations from each site and a measurement update.

This programme core content runs alongside separate measurement sessions, and a webinar series.

The NHS Sustainability model and guide



For more information click [here](#).

The EBD approach – a service improvement method



Capture the experience



Understand the experience



Improve the experience



Measure the improvement

Don't forget
to include
measurement
throughout.

© NHS Institute for Innovation and Improvement 2010. All rights reserved.

Staff and Patient Experience Based Design (EBD)

Being admitted
How did you feel?

Please add other thoughts or feedback on your experience.

Achieving Goals Positive Proud Confident Motivated
Job Satisfaction Warm Feeling Reassured Delighted Upset for them
Satisfied Frustrated Lack of Knowledge Sad Stressed
Flow Pressure Ashamed Apologetic Trodden Down

Arrival at service
What were your first impressions of the service?

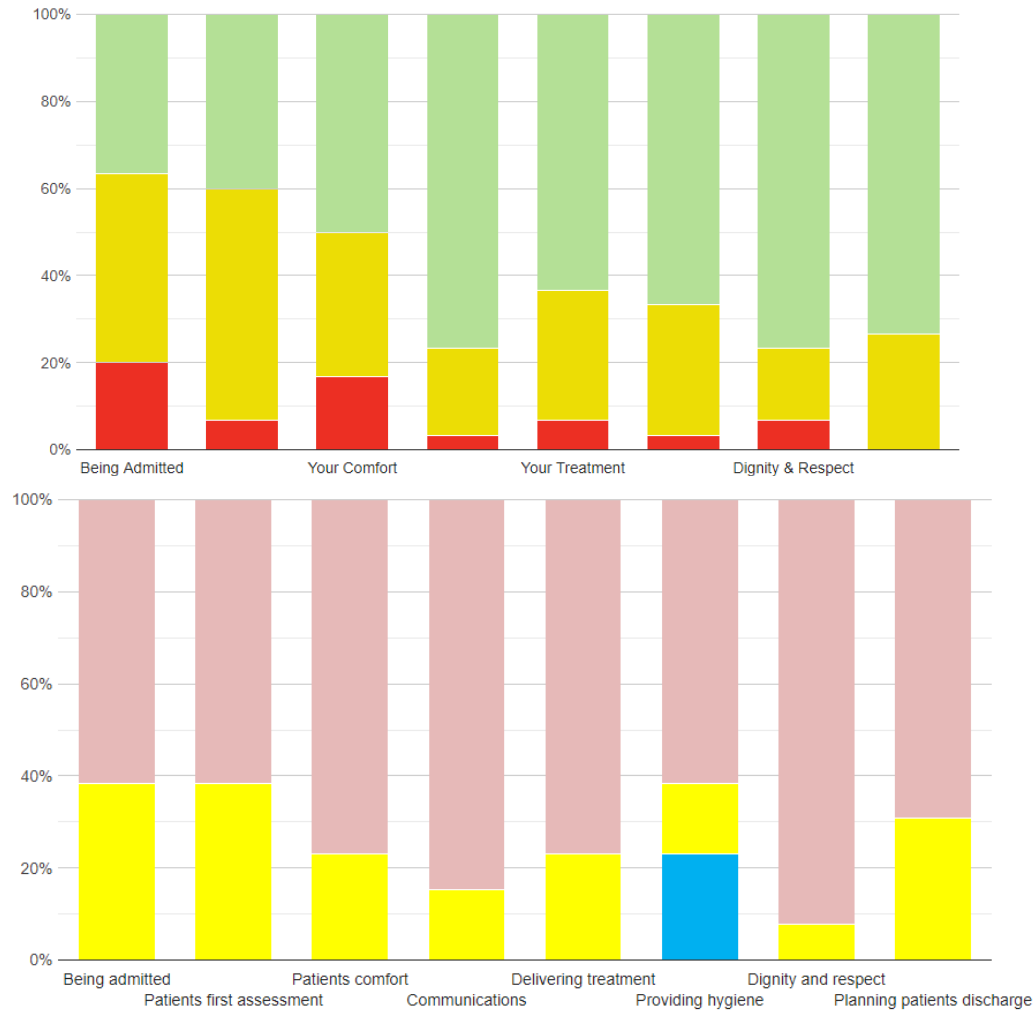
Good Poor

BACK NEXT

There are a number of EBD questionnaires available on our 'app':

- Outpatient patient questionnaire
- Outpatient staff questionnaire
- Inpatient patient questionnaire
- Inpatient staff questionnaire

Patient EBD and Staff EBD results





Salford POPS

Dr Arturo Vilches-Moraga

POPS Network Launch Event – Part One

Tuesday 8 June, 2021



Salford POPS Arturo Vilches-Moraga, Salford Royal NHS FT



General Surgery, Colorectal, UGI

Short Term Focus
Long Term Vision

Elective

Emergency

Preoperative POPS review*

Emergency Department

Surgical Triage Unit

ERAS

Surgery

No Surgery

Non Surgical Management

High Dependency Unit

Acute Surgical Ward

In-patient POPS review*

Other hospital area

In-patient rehabilitation

Discharge home

Intermediate care

24 hour care



Improving surgical outcomes (Salford POP-GS)

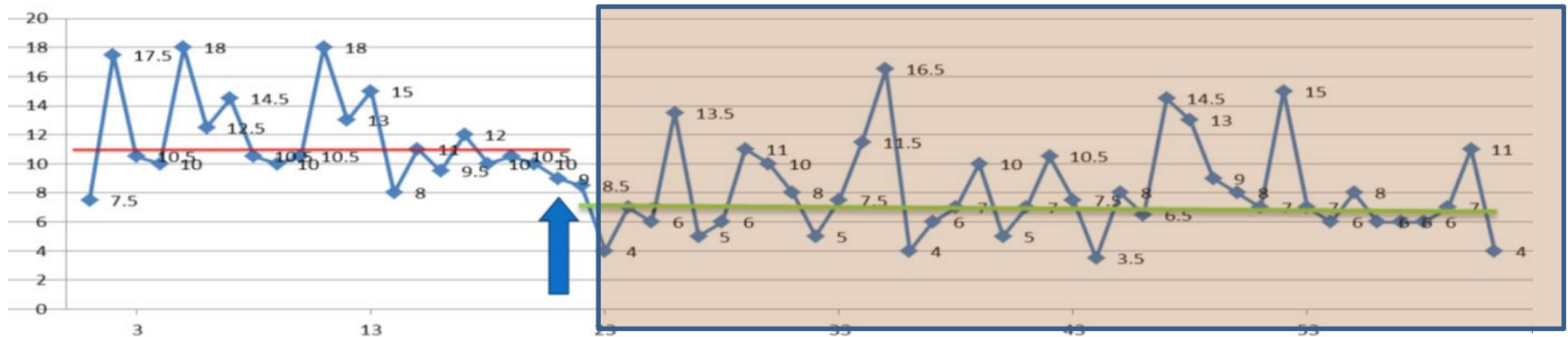
>2000 patient-episodes

8th September 2014 – COVID-19 Pandemic



Before February 1st
11 Median

After February 1st
7 Median





Improving surgical outcomes (Salford POP-GS)



- ✓ Patient and staff satisfaction
- ✓ Reduced calls to medical registrar
- ✓ Reduced referrals Cardiology, gastro, endocrine
- ✓ Improved coding (recognition of complications)
- ✓ Improved quality of discharge summaries



Improving surgical outcomes (Salford POP-GS)



- ✓ Patient and staff satisfaction
- ✓ Reduced calls to medical registrar
- ✓ Reduced referrals Cardiology, gastro, endocrine
- ✓ Improved coding (recognition of complications)
- ✓ Improved quality of discharge summaries



Risk-adjusted mortality
1 December 2018 - 30 November 2019

Risk-Adjusted Mortality

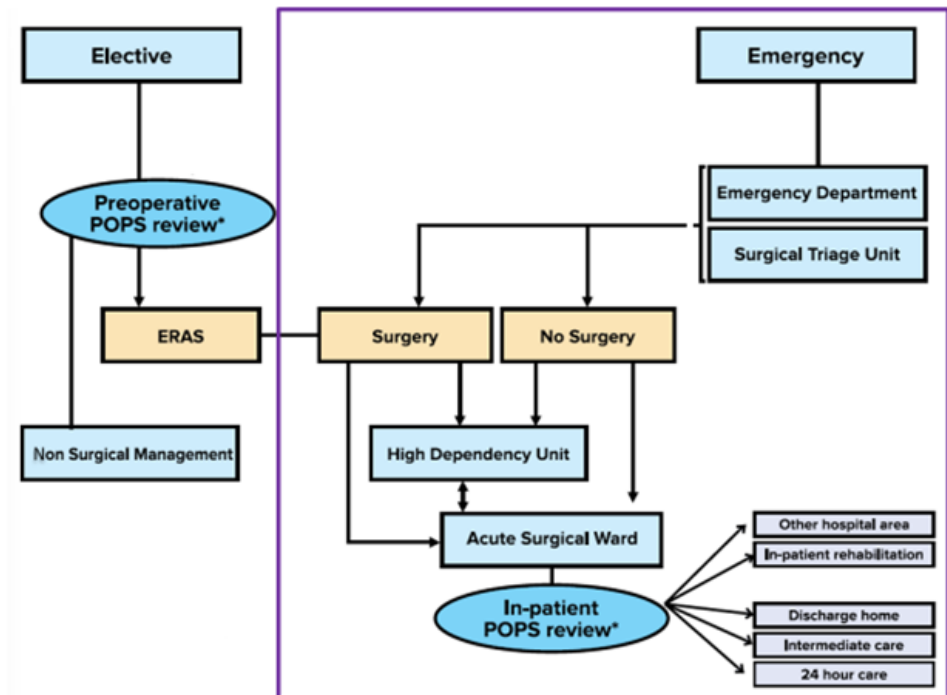
National mean 9.3%

Number of patients included 136

POPS-GS@Salford 2014-October 2018



Elective/Emergency in hospital

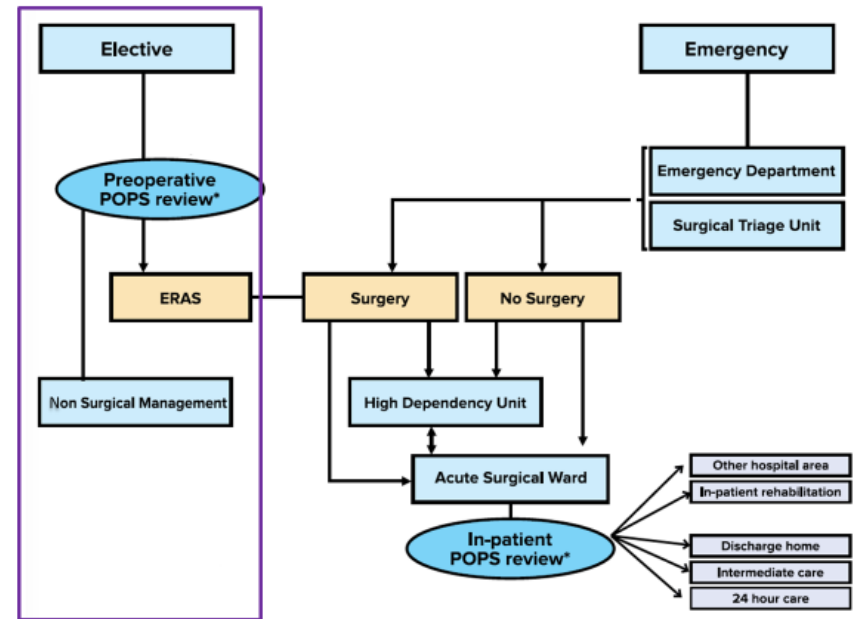


4 DCC + 1 SPA sessions = 20 hours/week
(including cover, holidays, ...)

POPS-GS@Salford October 2018- 21



Elective/Emergency in hospital Elective 2WWL initiative & High risk UGI



4 + 4 DCC + 2 SPA sessions = 40 hours/week
(including cover, holidays, ...)

Recipe for success

- Heterogeneous with complex needs and poor clinical outcomes
- Collaborative working
- Frailty is bad news but can be reverted
- Delirium identification and management



Recipe for success

- Comprehensive Geriatric Assessment
- Collaborative working
- Frailty is bad news but can be reverted
- Delirium identification and management



Recipe for success

- Comprehensive Geriatric Assessment
- Collaborative working
- Frailty is bad news but can be reverted
- Delirium identification and management

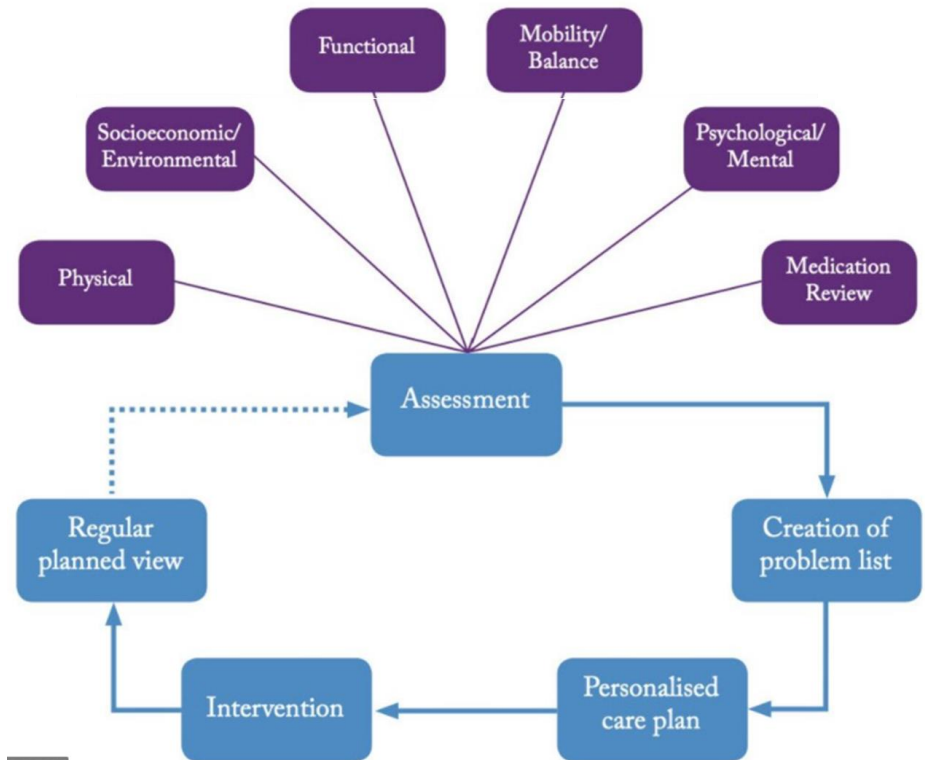


Recipe for success

- Comprehensive Geriatric Assessment
- Collaborative working
- Frailty is bad news but can be reverted
- Delirium identification and management

*hallucination • Agitated • Distracted
Disoriented • Rambling • Withdrawn
Restless **Delirium** sense of place
bewildered • Confused • Incoherent
hallucination • Agitated • Distracted
Disoriented • Rambling • Withdrawn
Hallucinations of Euphoria*

- **Heterogeneous with complex needs and poor clinical outcomes**



1000 x 848

CGA

The set up: Salford-POPS-GS in-reach Service

- Proactive, daily case finding service for frail (CFS>4) patients over 64 years of age and all over 80 years of age



- Comprehensive Geriatric Assessment

(ACM Consultant InReach)

=====

85 year old independent non smoker with a diagnosis of dementia
Hypertension, hyperlipidemia, prostatism and previous TURP
Medications (6): No Allergies

Emergency admission (abdominal pain and vomiting): small bowe obstruction
(adhesive)

Clinical Frailty Scale - 3

Social: Lives with wife in a house. Independent. Mobile with no aids. Recent dementia diagnosis
with no behavioural symptoms

High Dependency Care: Yes

Procedure: Emergency Laparotomy & Release of Band Adhesion

Complications: delirium, ileus, AKI, acute urinary incontinence

Current Function

Mobility: Independently mobile

Cognition: CAM Positive. 4AT 12

Urinary catheter

Today's Assessment:

DOLS to be completed

Most Recent NEWS Score: 2 SaO2 97% on 2L

Bowels NOT opened since admission (according to EPR)

HAT assessment completed. On LMWH

Devices: Urinary catheter

Ceiling of Care: Full

Diagnoses:

1. Acute small bowel obstruction (adhesions)
2. Acute kidney injury - prerenal (hypovolemia, iatrogenia)
3. Emergency Laparotomy & Release of Band Adhesion 29/04/2018 - abnormal looking jejunum
4. Extubated 30/04
5. Post-operative ileus 30/04
6. Post-operative acute urinary retention - difficulty catheterising
7. Post-operative mixed type delirium superimposed on dementia 01/05 - received olanzapine
8. Polypharmacy

Changes to medication

STOPPED Aspirin and Atorvastatin (no active indication in the absence of established vascular
disease), Omeprazole (low dose and no longer indicated as not on antiplatelet agents),
Bendroflumethiazide and Perindopril (AKI and low BP)

STARTED Trazodone 50mg at 6pm, Paracetamol 1gr up to QDS and Movicol OM

CHANGED -

RECEIVED Olanzapine (acute confusional state)

Discharge Plan:

Surgical agenda: bowels not yet opened. Reduced bowel sounds.

I do appreciate Mr [redacted] suffered an episode of acute urinary retention perioperatively at the
time of ileus.

He is restless and we should aim to TWOC as soon as practicable (providing he is moving his
bowels regularly and mobile)

Continue to omit Bendroflumethiazide, perindopril and atorvastatin
Stop aspirin all together as there isn't a clear indication. Omeprazole can also be discontinued

Pain appears under control (mild abdominal discomfort)
I suggest that we give Paracetamol 1g QDS & PRN Nefopam 30mg

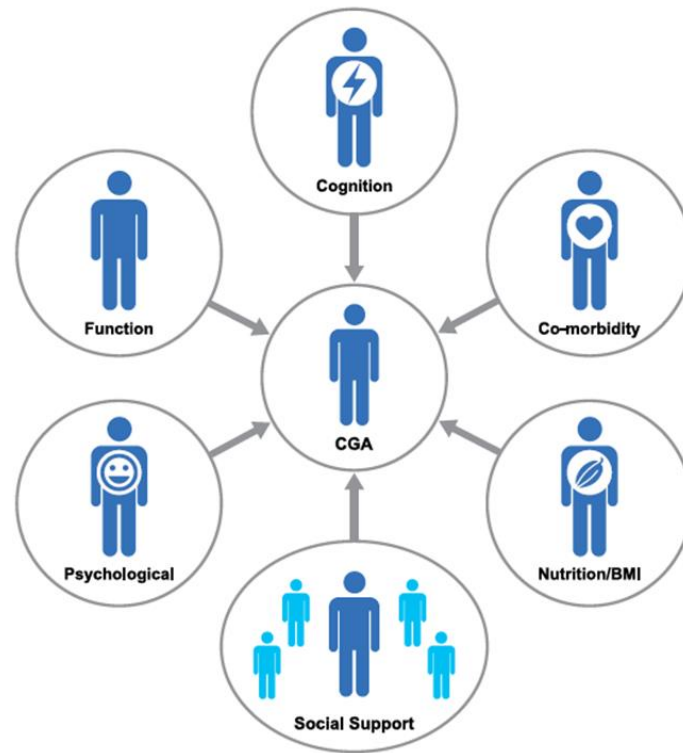
Stop Olanzapine and add in Trazodone 50mg at 6pm (it will help his restlessness).
We will aim to stop pre-discharge

Please could ward staff continue to ensure usual delirium measures are taken, including regular
re-orientation and reassurance, good hydration, regular bowel movements and monitoring of
pain.

Information given to patient/carers:

Expected Discharge Date is
Not Suitable for transfer to Pendleton Suite
Advice given to General Practitioner:
ACM Follow up: Not required

- Collaborative working is key to success

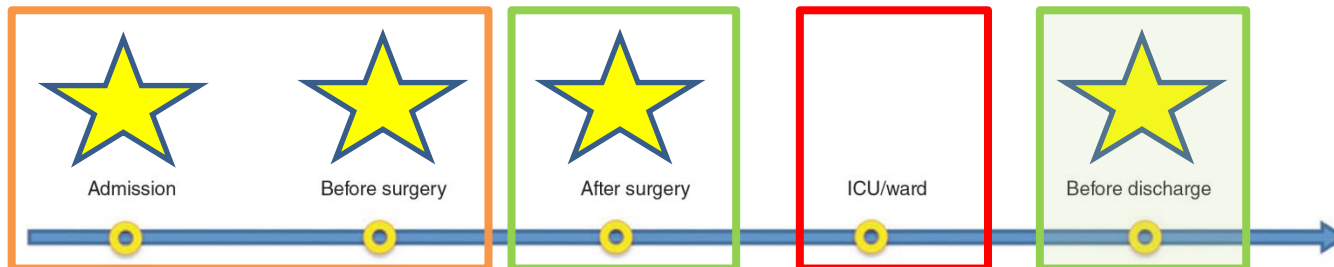


The set up: Salford-POPS-GS in-reach Service

- Proactive, daily case finding service for patients over 74-years of age
- Core team: Senior nurse, physiotherapist, Occupational therapist, geriatrician/ACP



- Comprehensive Geriatric Assessment
- Targeted Multidisciplinary interventions
- Timely Discharge Planning



- Frailty is bad news but can be reverted

Frailty

Advanced Chronological Age

Physiological Parameters

Age	> 70 yrs old
Cardiac	raised JVP, cardiomegaly
Respiratory	Dyspnoea at rest, pulmonary fibrosis/consolidation on x-ray
ECG	ECG = any other abnormal rhythm, >4/min ectopics, Q waves, ST/T changes
Systemic BP	< 90 mmHg
Pulse Rate	<40 or > 120 bpm
Haemoglobin	<10 or >18 g/dl
WBC	>20 or <3
Urea	>15
Sodium	<126 mmol/l
Potassium	<2.9 or >5.9 mmol/l
GCS	<9

Operative Parameters

Operation Type	Complex Major Operation
Number of procedures	more than two
Operative Blood Loss	>1000 ml
Peritoneal Contamination	free bowel content, pus or blood
Malignancy Status	malignancy + distant mets
CEPOD	emergency (within 2 hrs)

Cognitive impairment
Sphincter disturbance
Mobility impairment
Functional impairment
Lack of social support
Malnutrition
Delirium
Polypharmacy

P-POSSUM ASA III-V Complications Time of Surgery

- **Frailty is bad news but can be reverted**



Clinical Frailty Scale*



1 Very Fit – People who are robust, active, energetic and motivated. These people commonly exercise regularly. They are among the fittest for their age.



2 Well – People who have **no active disease symptoms** but are less fit than category 1. Often, they exercise or are very **active occasionally**, e.g. seasonally.



3 Managing Well – People whose **medical problems are well controlled**, but are **not regularly active** beyond routine walking.



4 Vulnerable – While **not dependent** on others for daily help, often **symptoms limit activities**. A common complaint is being "slowed up", and/or being tired during the day.



5 Mildly Frail – These people often have **more evident slowing**, and need help in **high order IADLs** (finances, transportation, heavy housework, medications). Typically, mild frailty progressively impairs shopping and walking outside alone, meal preparation and housework.



6 Moderately Frail – People need help with **all outside activities** and with **keeping house**. Inside, they often have problems with stairs and need **help with bathing** and might need minimal assistance (cuing, standby) with dressing.



7 Severely Frail – Completely dependent for **personal care**, from whatever cause (physical or cognitive). Even so, they seem stable and not at high risk of dying (within ~ 6 months).



8 Very Severely Frail – Completely dependent, approaching the end of life. Typically, they could not recover even from a minor illness.



9. Terminally Ill - Approaching the end of life. This category applies to people with a **life <6 months**, who are **not otherwise**

Scoring frailty in people with dementia

The degree of frailty corresponds to the degree of Common **symptoms in mild dementia** include forg details of a recent event, though still remembering t repeating the same question/story and social withd

In **moderate dementia**, recent memory is very impaired, even though they seemingly can remember their past life events well. They can do personal care with prompting.

In **severe dementia**, they cannot do personal care without help.

* 1. Canadian Study on Health & Aging, Revised 2008.
2. K. Rockwood et al. A global clinical measure of fitness and frailty in elderly people. CMAJ 2005;173:489-495.

© 2007-2009 Version 1.2. All rights reserved. Geriatric Medicine Research, Dalhousie University, Halifax, Canada. Permission granted to copy for research and educational purposes only.



Top Tips to help you use the Clinical Frailty Scale

- #1 It's all about the baseline**
If the person you are assessing is acutely unwell, score how they were 2 weeks ago, not how they are today.
- #2 You must take a proper history**
The CFS is an objective clinical assessment tool. Frailty must be sensed, described, and measured - not guessed.
- #3 Trust, but verify**
What the person you are assessing says is important, but should be cross-referenced with family/carers. **The CFS is a judgement-based tool**, so you must integrate what you are told, what you observe, and what your professional clinical experience tells you from dealing with older adults.
- #4 Over-65s only**
The CFS is not validated in people under 65 years of age, or those with stable single-system disabilities. However, documenting how the person moves, functions, and has felt about their health may help to create an individualised frailty assessment.
- #5 Terminally ill (CFS 9)**
For people who appear very close to death, the current state (i.e. that they are dying) trumps the baseline state.
- #6 Having medical problems does not automatically increase the score to CFS 3**
A person who isn't bothered by symptoms and whose condition(s) doesn't limit their lives can be CFS 1 or 2 if they're active and independent.
- #7 Don't forget "vulnerable" (CFS 4)**
People in this category are not dependent (though they may need assistance with heavy housework), but often complain of "slowing down". They're becoming sedentary, with poor symptom control.
- #8 Dementia doesn't limit use of the CFS**
Decline in function in people living with dementia follows a pattern similar to frailty, so if you know the stage of dementia (mild, moderate, severe) you know the level of frailty (CFS 5,6,7). If you don't know the stage of dementia, follow the standard CFS scoring.
- #9 Drill down into changes in function**
When considering more complex activities of daily living (such as cooking, managing finances, and running the home) the focus is on *change* in function. A person who has always relied on someone else to perform a particular activity should not be considered dependent for that activity if they've never had to do it before and may not know how.

- Delirium identification and timely management



PINCHME
The *COMMON CAUSES* of *Delirium*

- Pain**
- Infection**
- Nutrition**
- Constipation**
- Hydration**
- Medication**
- Environment**

Sections

- Delirium & Dementia Assessments
 - 4AT Assessment
 - ED TIME Bundle**
 - TIME Bundle
 - CAM
 - Dementia Assessment
 - Capacity Assessment
 - EPR Admin use only
- DOCUMENT VERSION

Acronym Expansion Allergies/intolerances/Adverse Events

4AT Assessment **ED TIME Bundle** TIME Bundle CAM Dementia Assessment Capacity Assessment EPR Admin use only

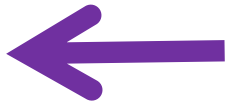
ED TIME Bundle

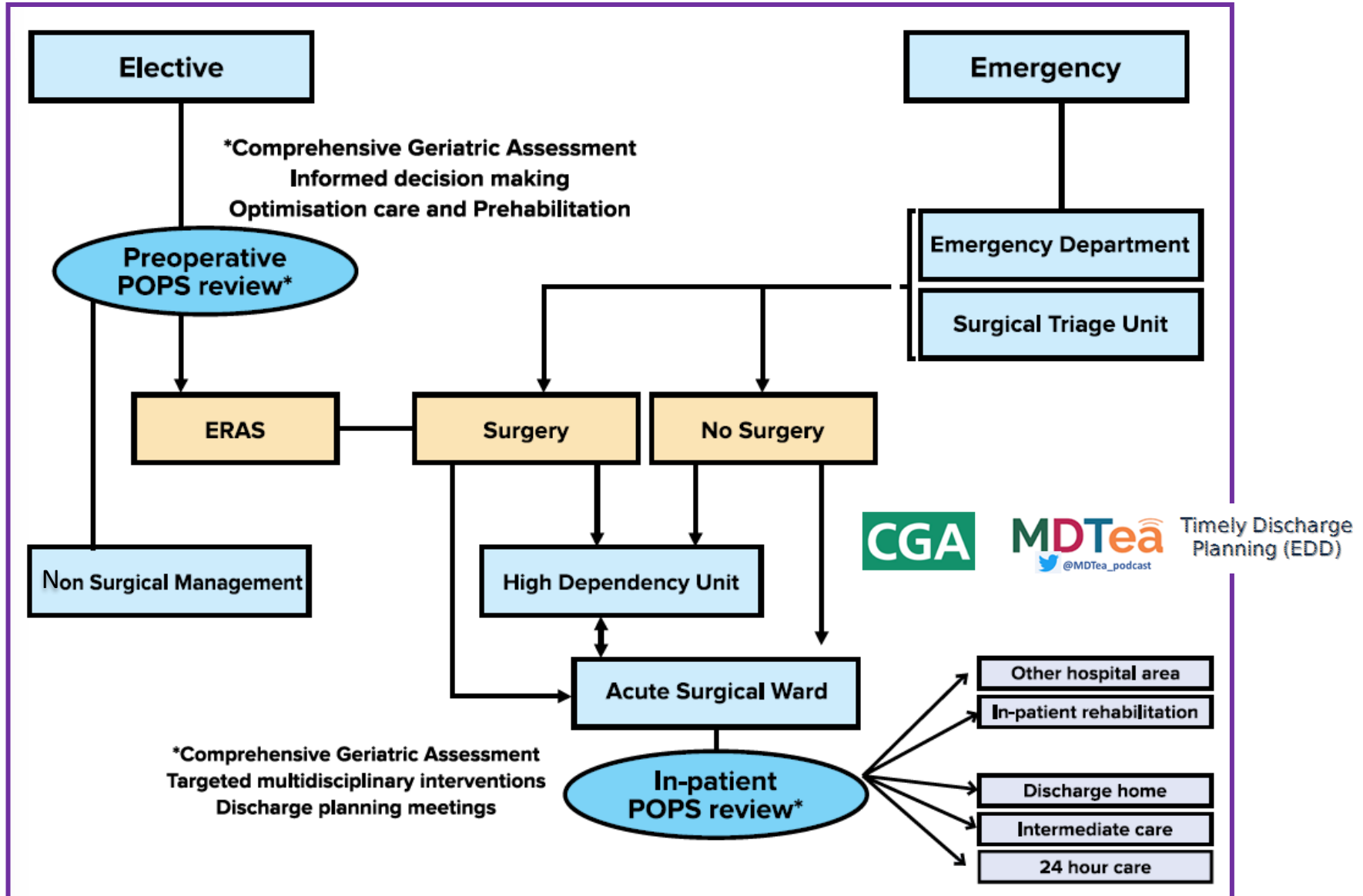
		Abnormality found
T - Triggers	NEWS	<input type="radio"/> Yes <input type="radio"/> No <input type="radio"/> Not assessed
	Blood glucose	<input type="radio"/> Yes <input type="radio"/> No <input type="radio"/> Not assessed
	Infection	<input type="radio"/> Yes <input type="radio"/> No <input type="radio"/> Not assessed
	Hydration	<input type="radio"/> Yes <input type="radio"/> No <input type="radio"/> Not assessed
	Medication changes	<input type="radio"/> Yes <input type="radio"/> No <input type="radio"/> Not assessed
	Pain	<input type="radio"/> Yes <input type="radio"/> No <input type="radio"/> Not assessed
	Urinary retention	<input type="radio"/> Yes <input type="radio"/> No <input type="radio"/> Not assessed
	Constipation	<input type="radio"/> Yes <input type="radio"/> No <input type="radio"/> Not assessed
I - Investigate	Metabolic	<input type="radio"/> Yes <input type="radio"/> No <input type="radio"/> Not assessed
	Bloods	<input type="radio"/> Yes <input type="radio"/> No <input type="radio"/> Not assessed
	ECG (ACS)	<input type="radio"/> Yes <input type="radio"/> No <input type="radio"/> Not assessed
	Infection screen	<input type="radio"/> Yes <input type="radio"/> No <input type="radio"/> Not assessed
M - Manage	Imaging	<input type="radio"/> Yes <input type="radio"/> No <input type="radio"/> Not assessed
	Treat causes	Completed <input type="text" value=""/> <input type="button" value="OK"/> <input type="button" value="Cancel"/>
E - Explain	Clinical details	<input type="text" value=""/>
	Explain to family	Completed <input type="text" value=""/> <input type="button" value="OK"/> <input type="button" value="Cancel"/> Click here to view and print the leaflet
	Explain to team	Completed <input type="text" value=""/> <input type="button" value="OK"/> <input type="button" value="Cancel"/>
Submit new Health Issue		Document diagnosis
		Completed <input type="text" value=""/> <input type="button" value="OK"/> <input type="button" value="Cancel"/>

Retrieve Last Charted... Insert Default Values Clear Unsavd Data

Need Help? Mark Note As: Results pending Priority Incomplete E&M Calculation Charge Capture SuperBill

Save Cancel





Patient prefers to be called:

Salford Royal **NHS**
NHS Foundation Trust

Tinzaparin training required: Y N

University Teaching Trust

safe • clean • personal

Elective Colorectal Enhanced Recovery Programme Care Pathway

Affix Patient Label Here

Admission Date:

Target discharge date:

Consultant	
Length of stay	<input type="checkbox"/> Right hemicolectomy 4 days <input type="checkbox"/> Left hemicolectomy 5 days <input type="checkbox"/> Rectal resection 6 days <input type="checkbox"/> Subtotal colectomy 5 days
Intended post-op bed	<input type="checkbox"/> Ward <input type="checkbox"/> SHDU
NHS Number:	<input type="text"/>

This patient is on a care pathway. ALL DOCUMENTATION relating to this episode of care should be recorded in this document.

DO NOT MAKE ADDITIONAL ENTRIES IN THE MEDICAL RECORDS

Salford Royal **NHS**
NHS Foundation Trust

Oesophagectomy Integrated Pathway

Patient Name

Affix label to cover as possible

Date of surgery

____/____/____

Surgical Consultant

Pre-Operative Checklist Completed by Doctor Nurse

- A pre-operative arterial blood gas on air is available
- Pre-operative weight is measured _____kg
- Pre-operative medications prescribed:
2 sachets of Preload in 750 ml at 22:00 the night before surgery (unless insulin-dependent diabetic)
0.2% chlorhex mouthwash (10mL over 1 minute after brushing teeth) 22:00 night before surgery & 06:00 morning of surgery
No pre-operative tinzaparin or on post-op Day 0
- Pre-operative medications given:
- The patient is consented
- Critical care bed is booked as Level 2
- 2 units of blood are crossmatched. If not, FY1 to take
- Confirmed blood available
- 08:00 Theatre team briefing in anaesthetic room time confirmed

Our journey towards
**Global
Digital
Exemplar**

Digitised
Pathways

Medicines
Management

Digitised
Theatres

Optimising
EPR

NHS
Northern Care Alliance
NHS Group

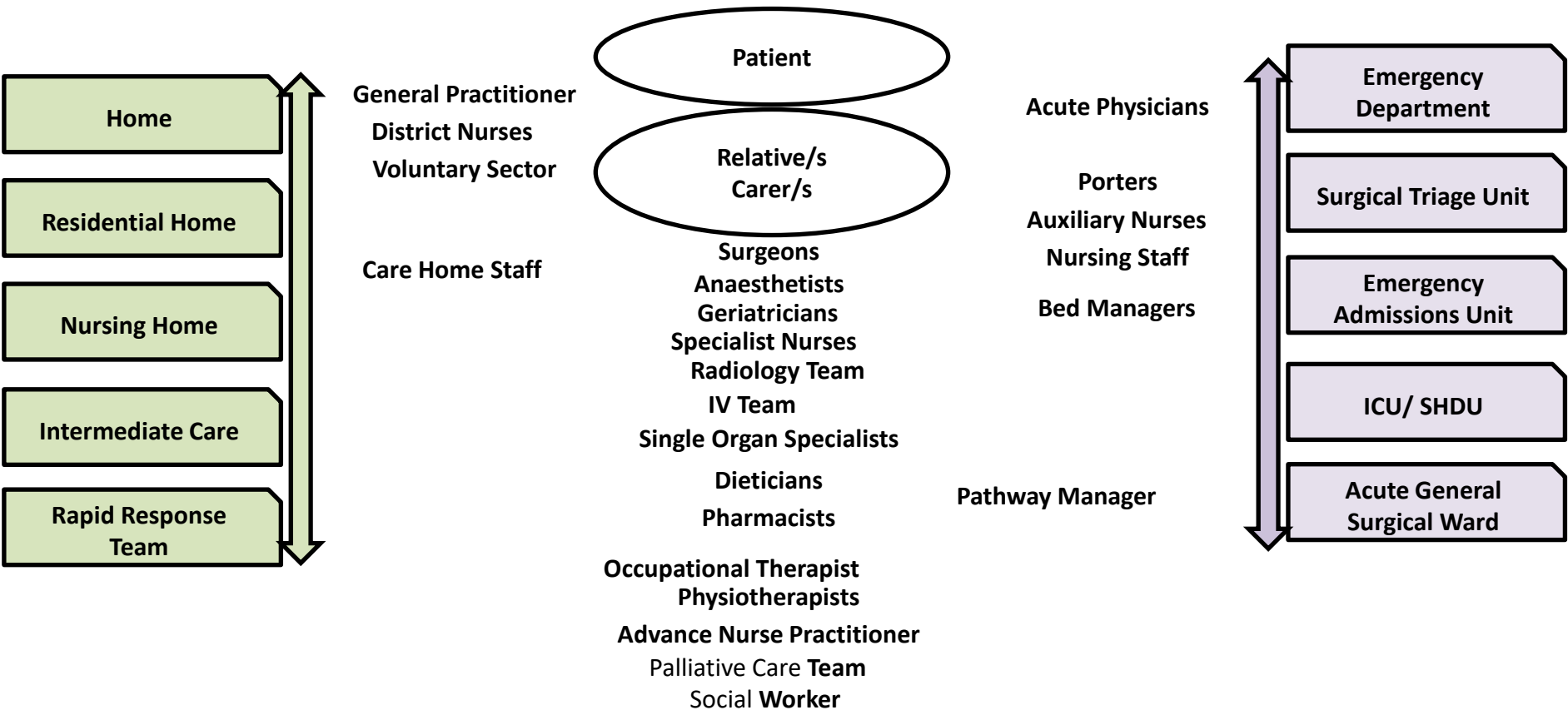
Salford Royal **NHS**
NHS Foundation Trust

University Teaching Trust

safe • clean • personal

**Acute Surgical
Abdominal Pain
Care Pathway**





STRENGTHS

- Existing service upon which to develop
- Respected by colleagues
- Collaborative working
- ACP/Consultant Geriatrician delivered
- Patient/Staff satisfaction
- Financial benefits
- Aligned with Trust objectives

WEAKNESSES

- Reliant on 3 individuals
- Increasing demand
- Medical pressures/priorities (COVID-19)
- Staff changeover
- Frailty/Delirium identification/management
- Data gathering
- Longer term sustainable funding/service



OPPORTUNITIES

- Increasing demand
- NELA
- 2WWL CR
- High risk UGI MDT initiatives
- Healthier Together
- Research/Publications
- Career progression

THREATS

- Staff retention/deployment
- Snowballing demand
- Clinical priorities elsewhere
- Conflicting priorities/vision
- Financial pressures
- Territorialism/defensiveness
- Complacency/ change fatigue



-
- Healthier together
 - Service Reestablishment/ consolidation
 - Amalgamation COTE in-reach services
 - Quality Improvement

Recipe for success

- Comprehensive Geriatric Assessment
- Collaborative working
- Frailty is bad news but can be reverted
- Delirium identification and management



Clinical Frailty Scale*	
<p>1 Very fit - People who are robust, active, energetic and motivated. These people normally require no special care. They are among the fittest for their age.</p> <p>2 Well - People who have no acute disease symptoms but are not fit. Occasionally, they may need care or are unwell occasionally (e.g. seasonal influenza).</p> <p>3 Planning Well - People who have medical problems but are well controlled, but are not enjoying active leisure outside working.</p> <p>4 Vulnerable - When not dependent on others for care, they often experience their condition, a common complaint is being "knocked up" and/or being tired during the day.</p> <p>5 Mildly Frail - These people often have medical problems, slowing, and need help with high order ADLs (bathing, dressing, toileting, transferring, walking). They are typically frailty progressively diagnosed, slipping and falling, needing assistance with preparation and consumption.</p> <p>6 Moderately Frail - People who help with all routine activities and with keeping house tasks. They often have problems with stairs and need help with bathing and might need medical attention during illness.</p>	<p>7 Severely Frail - Completely dependent for personal care. Some activities (e.g. walking or shopping). Start to fall, severe frail and not at all fit for doing anything - is moribund.</p> <p>8 Very Severely Frail - Completely dependent, approaching the end of life. Towards this could not respond even from a minor illness.</p> <p>9 Terminally Ill - Approaching the end of life. This group requires to people with a life expectancy of months who are not otherwise evidently frail.</p> <p>Scoring frailty in people with delirium: The degree of frailty corresponds to the degree of delirium. Complete dependence on others (requiring the assistance of another person through all self-care tasks) and inability to respond to the care and/or to give consent are delirium delirium (not necessarily a pre-requisite condition). People who are severely frail and who are not fit for doing anything (or otherwise frail) are not fit for doing anything. They can be personally care with planning.</p> <p>Delirium delirium: This should be provided with additional help.</p> <p><small>* Clinical Frailty Scale © 2008 © 2008 University of Glasgow Health Sciences All rights reserved. This document is for personal use only.</small></p>

Delirium • Agitated • Distracted
 Disoriented • Rambling • Withdrawn
 Restless **Delirium** sense of place
 Bewildered • Confused • Incoherent
 Hallucination • Agitated • Distracted
 Disoriented • Rambling • Withdrawn

POPS Network Launch Event – Part One

Tuesday 8 June, 2021



Salford POPS Arturo Vilches-Moraga, Salford Royal NHS FT



@avilmor

arturo.vilches-moraga@srft.nhs.uk

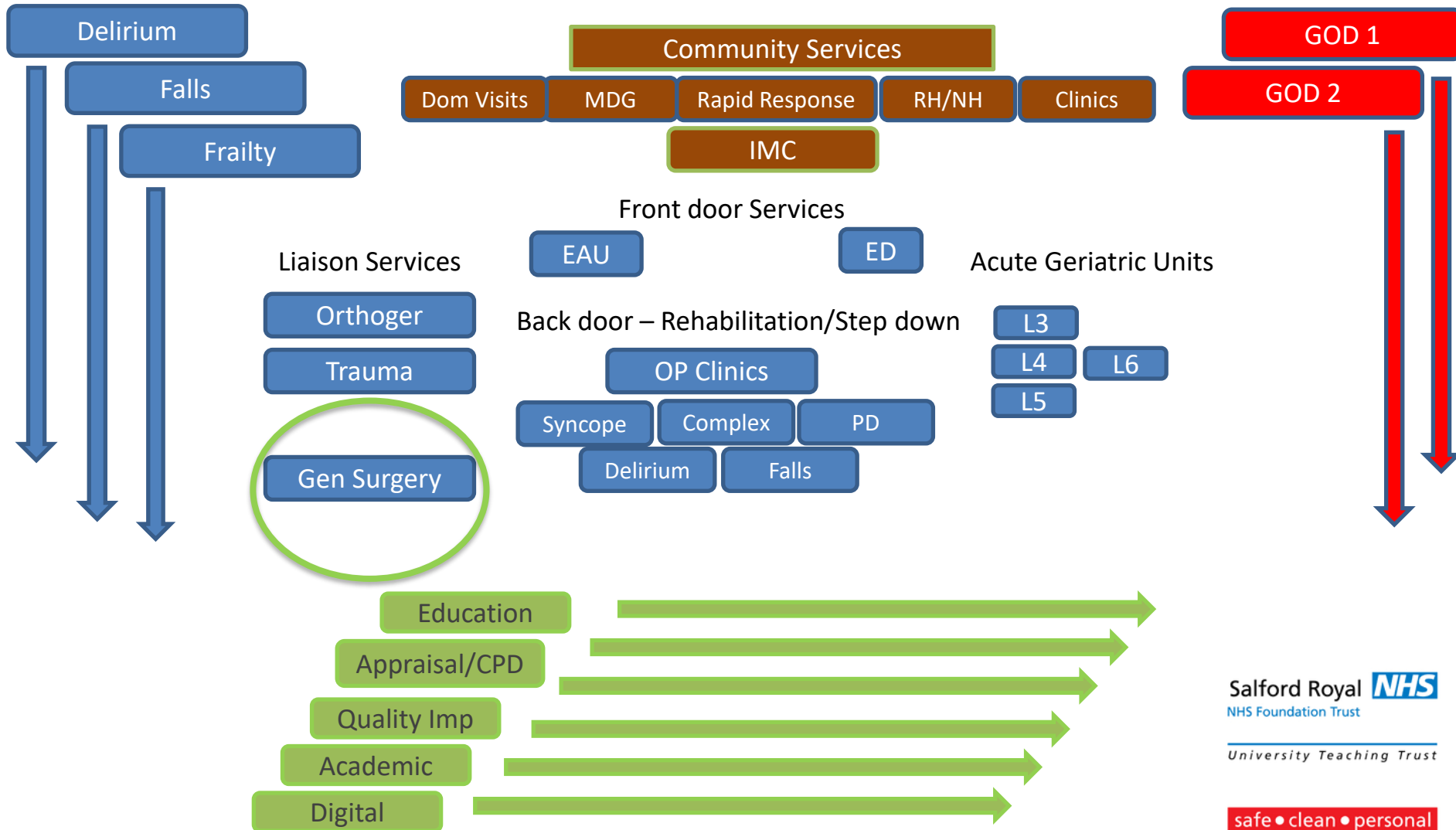


Tips

- Look, listen, think (before crossing the road)
- Sell your idea (business plan/ Clinical Governance-MM meetings)
- Collect data prospectively (IM &T, excel, database,...)
- Pick and pamper your team (MDT)
- Update managers regularly (keep them on board)
- Revise, attend POPS course
- Make sure it works for You



ACM@Salford





Liverpool POPS

Dr Mark Johnston



Liverpool University Hospitals
NHS Foundation Trust



Proactive Care for Older Patients Requiring Surgery (POPS)

LUHFT (RLB Site)

Dr Mark Johnston (Consultant Geriatrician)

POPS/OncoGeriatrics



Liverpool University Hospitals

NHS Foundation Trust

2.0 WTE Band 7 CNS POPS Nurses

0.6 WTE Consultant Geriatrician (3) Time

3 Pillars of focus:



Decision Making



Optimisation



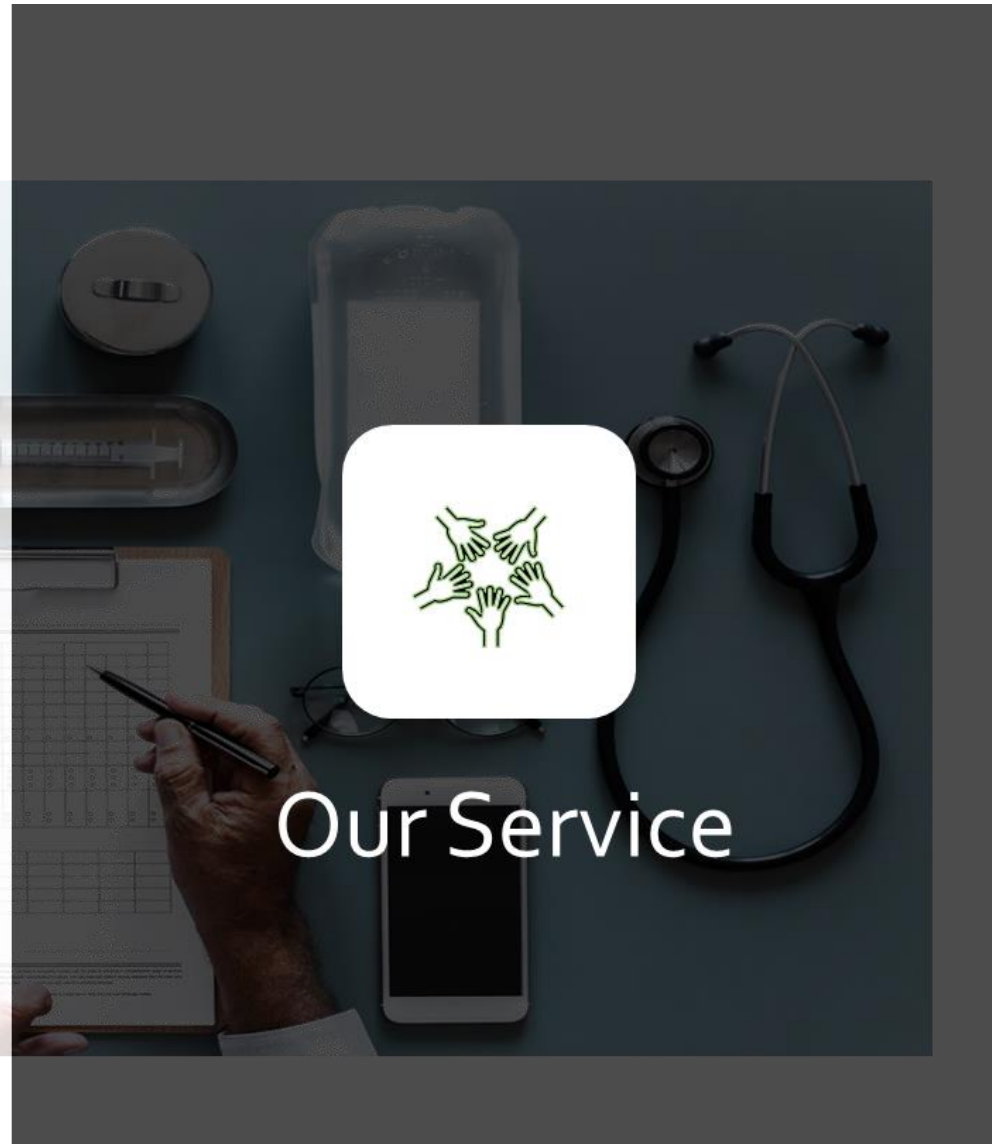
Peri-operative care

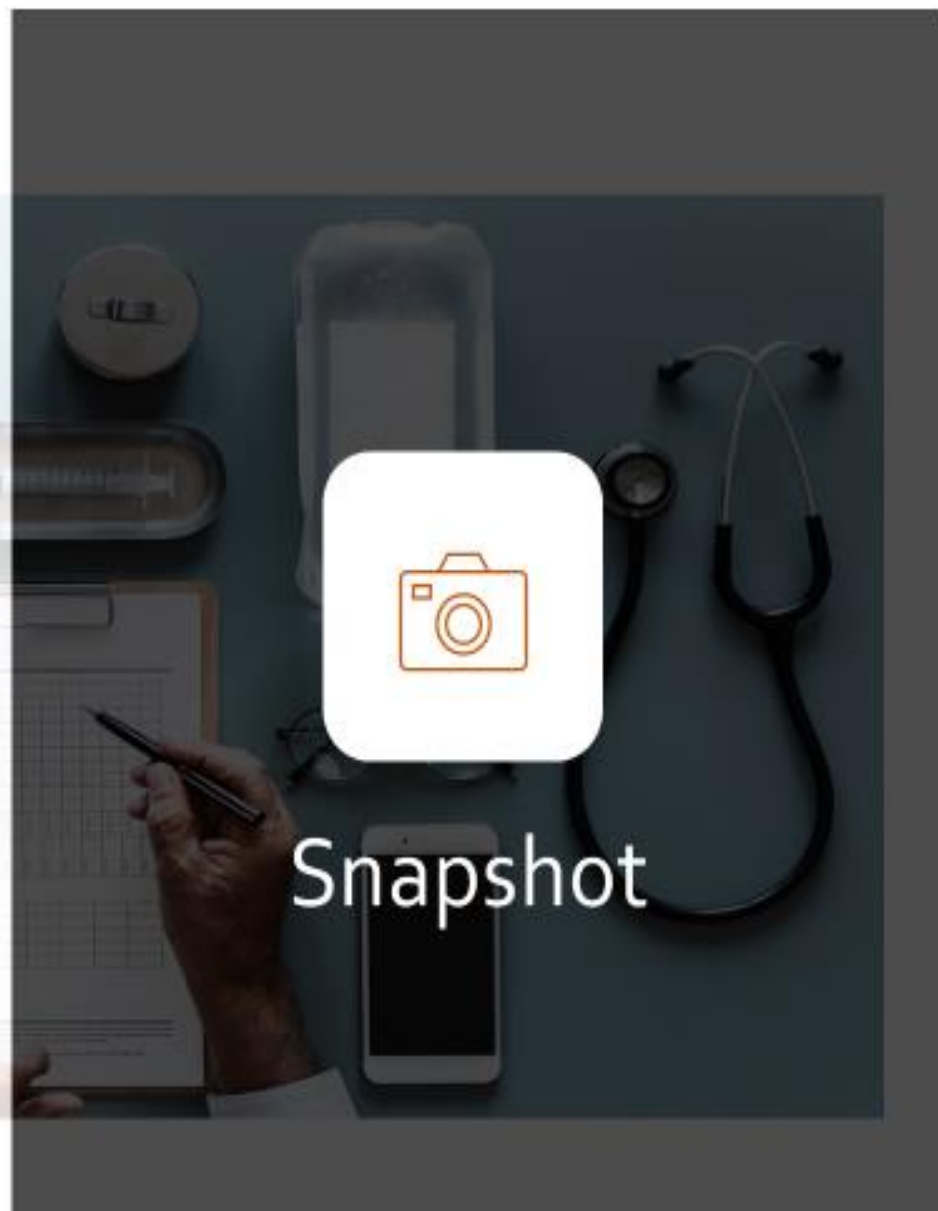
KPI's:

- 1) 80% of Inpatients reviewed within 72hrs
- 2) 90% of Pre-op referrals to be seen within 2 weeks
- 3) Reduction in reactive Cons-Cons referrals from surgery



Our Service

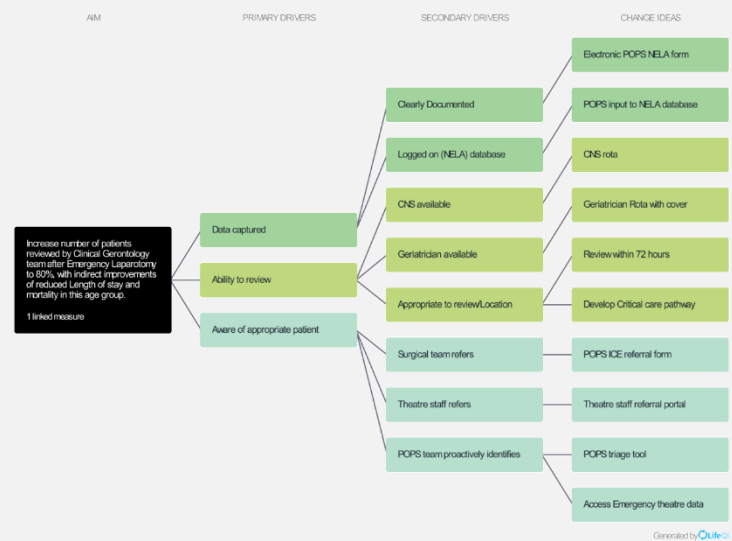






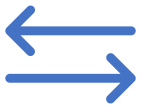
Liverpool University Hospitals
NHS Foundation Trust

NELA Report (Year)	Date range	Hospital Site	Total Cases	Assessed by elderly medicin	Post op LoS (Median)	Post op LoS (Mean)	Adjusted Mortality rate (%)
6	Dec 2018-Nov 2019	RLB	164	90	10	15.7	7.3%
5	Dec 2017-Nov 2018	RLB	144	77.4	13.8		11.60%
4	Dec 2016-Nov 2017	RLB	135	31.7	12.7		9.40%
3	Dec 2015-Nov 2016	RLB	144	43.3	13		11.10%
2	Dec 2014-Nov 2015	RLB	190	25	14.4		10.10%
1	Dec 2013-Nov 2014	RLB	181	9			





Liverpool University Hospitals
NHS Foundation Trust



Change
Management



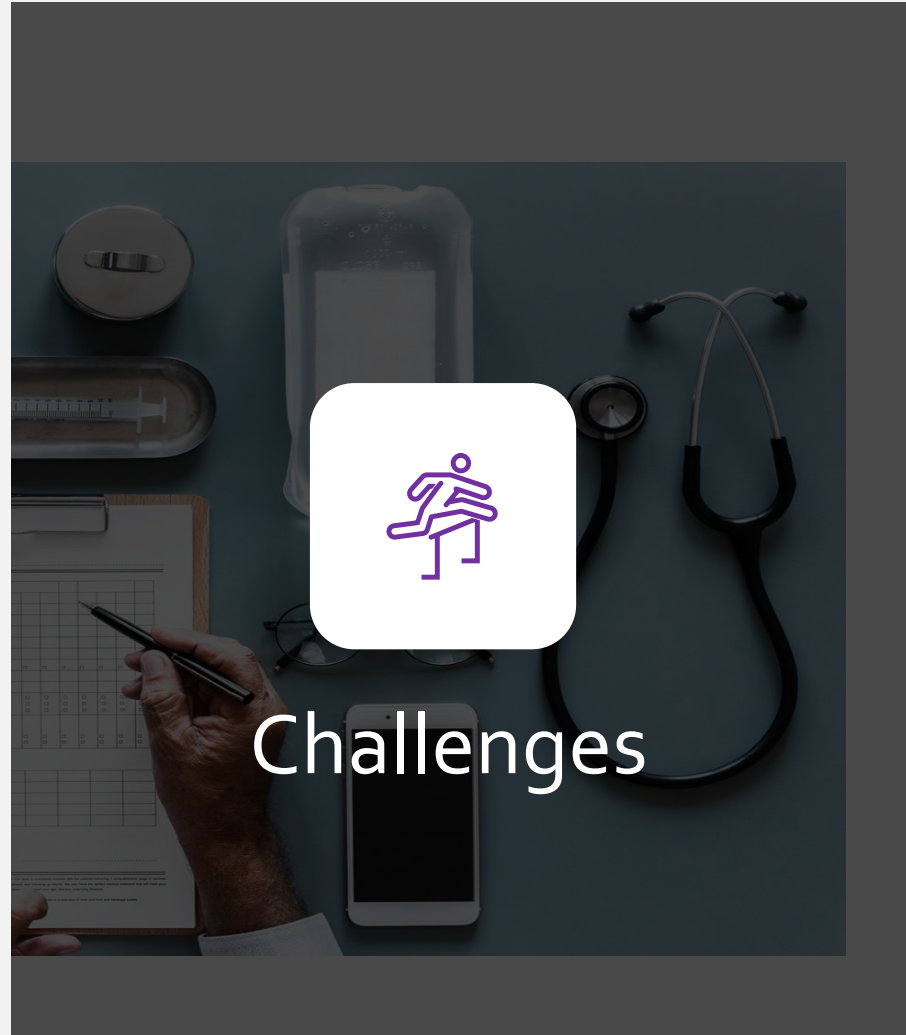
Business
Intelligence



Project
Management



Resource
Management





Liverpool University Hospitals
NHS Foundation Trust



Pre-op Growth



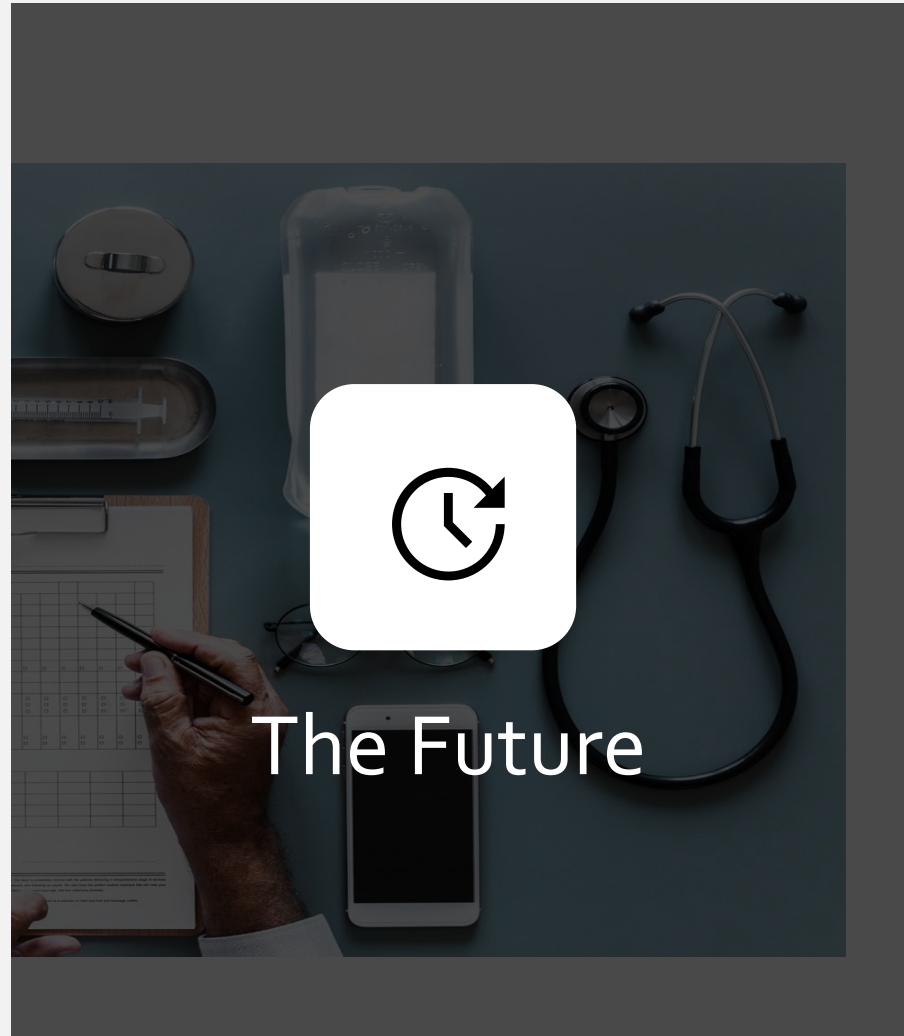
Complex MDT



Pathways



Onco-Geriatric
Integration



- Pushing on open doors
- Willingness to visit all clinical areas
- Ambassadorial role
- Focus on all 3 pillars
- Resource is precious, invest wisely
- NELA is a great starting position
- Significant appetite to develop this




Learning points





Liverpool University Hospitals
NHS Foundation Trust



Thank You

Dr Mark Johnston 

Mark.Johnston@liverpoolft.nhs.uk 

0151 706 2000 (PA Linda Evans) 



Dartford and Gravesend POPS

Dr Anna Whittle

POPS @ a District General Hospital

Dr Anna Whittle

Darent Valley Hospital

POPS Proactive care of Older People
who are undergoing Surgery

Guy's and St Thomas' **NHS**
NHS Foundation Trust

NHS
Dartford and Gravesham
NHS Trust

Darent Valley Hospital



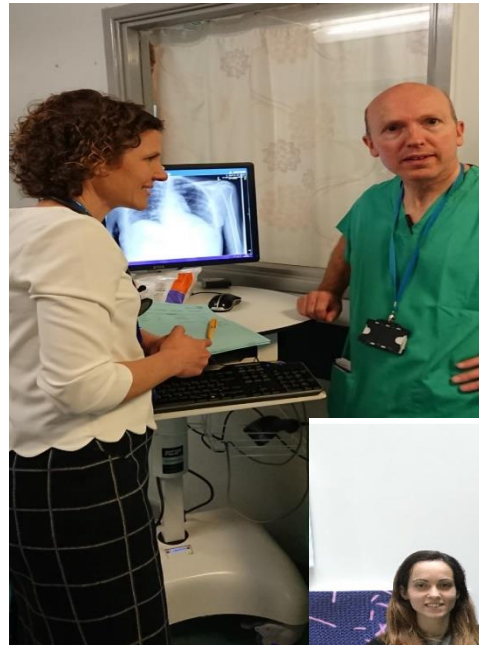
In the beginning.....



Collaborative leadership



Local
collaboration



Strategic
financial
leadership

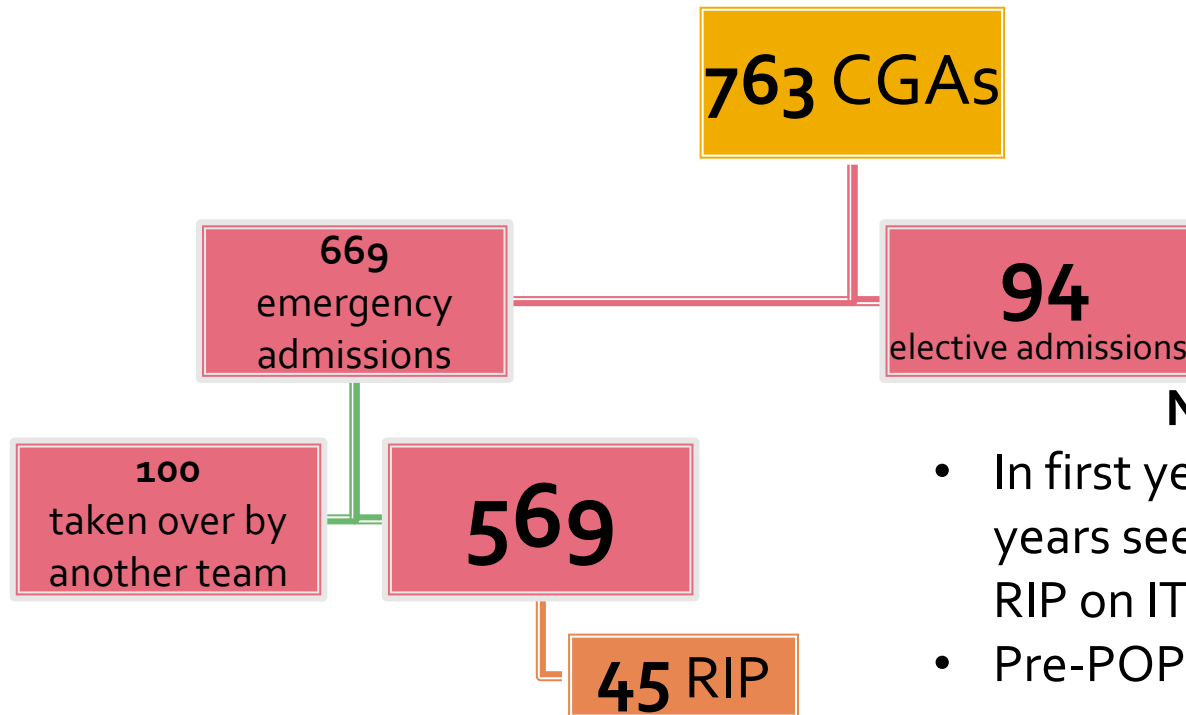
Cross site
collaboration



Mechanisms for sustainability



Inpatient activity over 1st year



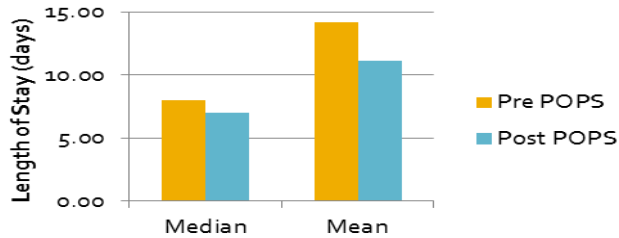
NELA:

- In first year: 98% ≥ 70 years seen by POPS (1 RIP on ITU)
- Pre-POPS 2, 8 and 20% seen

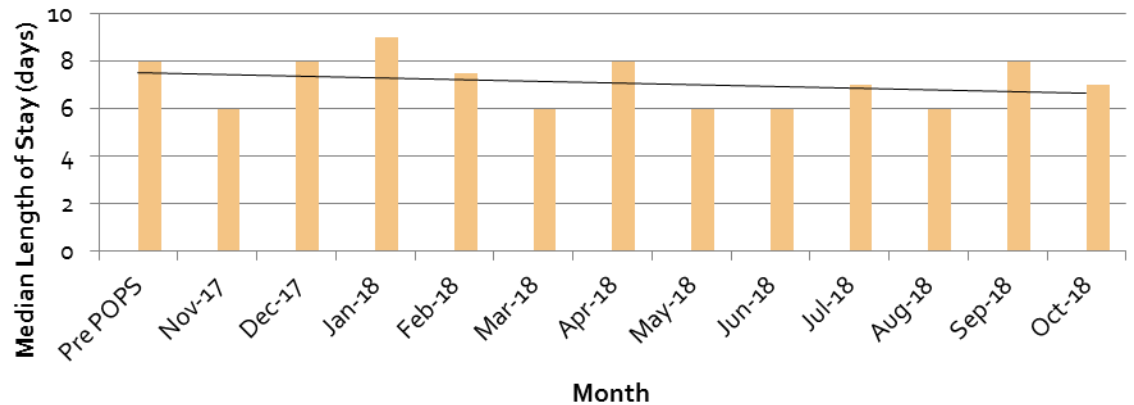
Length of stay for EGS

LOS
(days)

Length of Stay: Pre and Post POPS



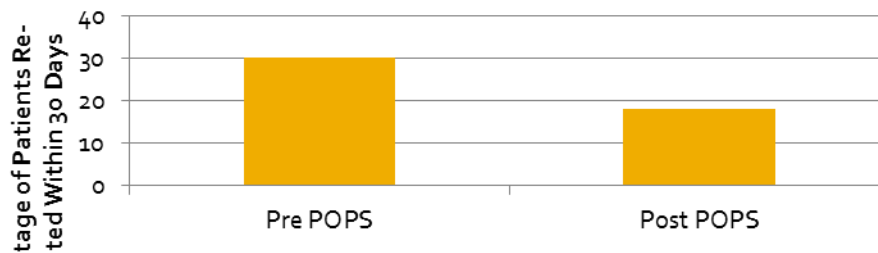
POPS: Median Length of Stay



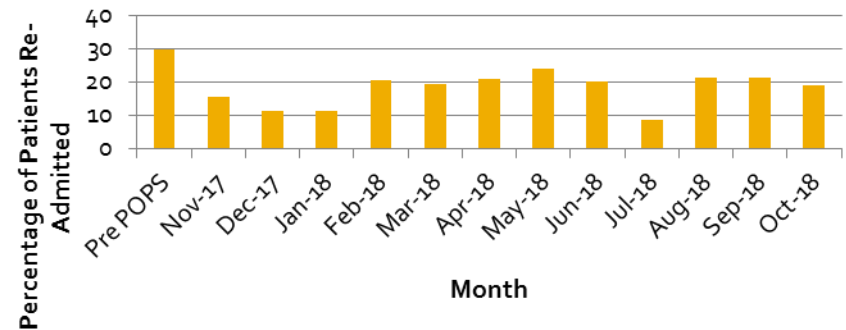
Length of Stay	Median	Mean
Pre POPS	8.00	14.18
Post POPS	7.00	11.16

30 day readmissions rate for EGS

Percentage of Patients Re-Admitted Within 30 Days: Pre and Post POPS



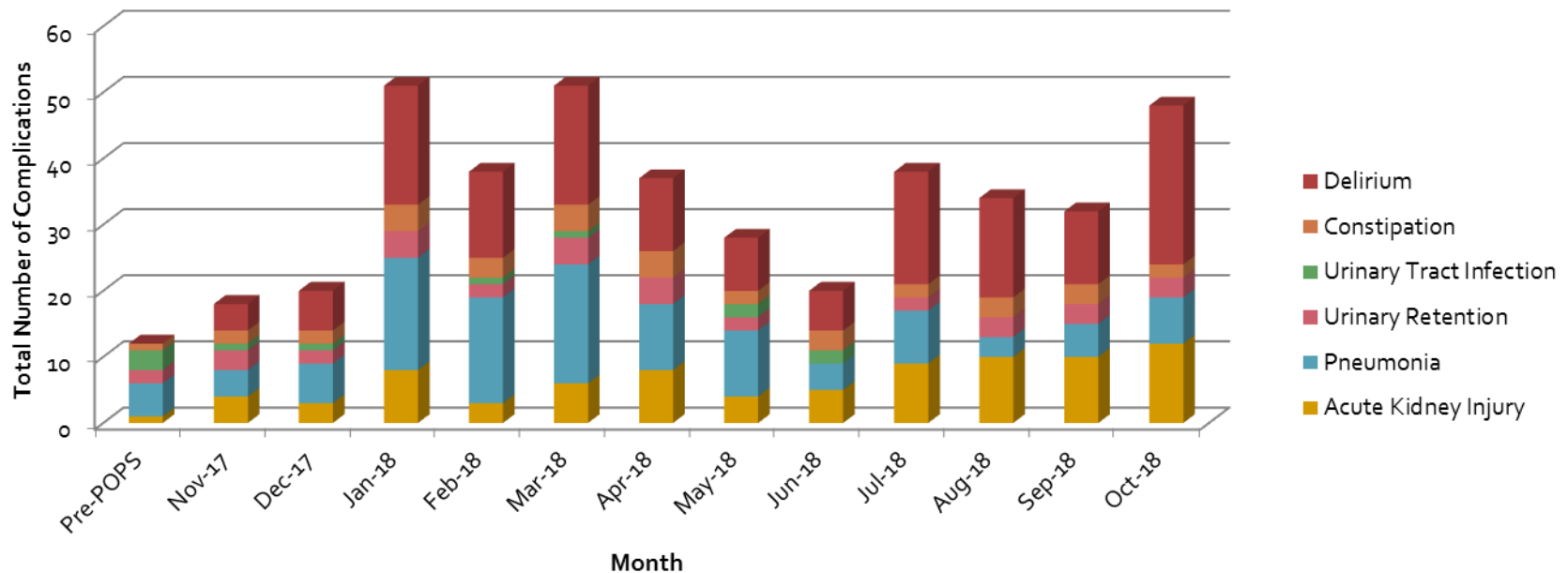
POPS Percentage Re-Admission



- **30%** readmission rate pre-POPS. 7/15 (46%) of readmissions were for medical reasons, 8/15 (53%) for surgical
- Average 30 day readmission rate over first year **18%**
- Analysis done at 8 months of POPS: 25/61 (41%) of readmissions were for medical reasons and 36/61 (59%) were for surgical reasons

Medical complications

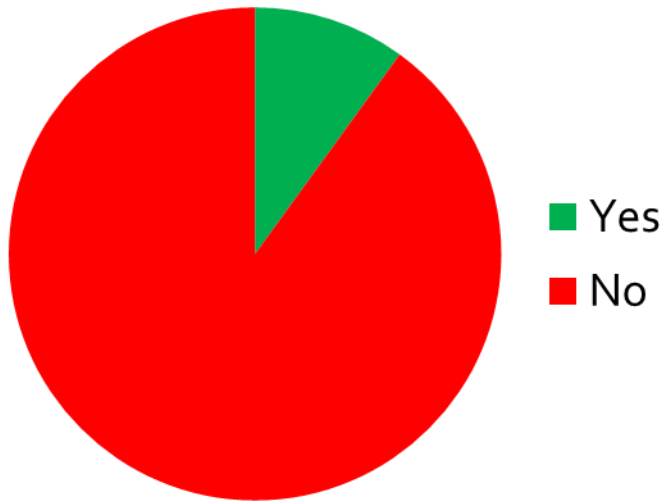
Common Medical Complications in General Surgical Patients



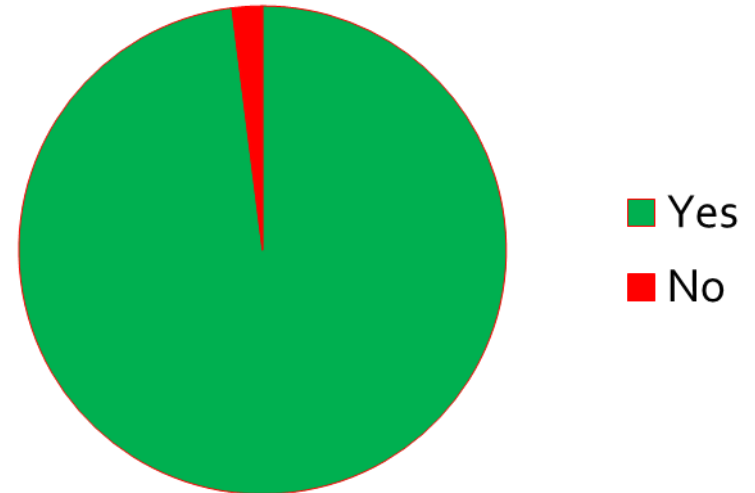
- The incidence of all common medical complications has increased when compared to pre-POPS data
- This most likely represents increased **detection** of medical complications

NELA: geriatrician review laparotomy patients > 70 years

■ Pre POPS




■ Post POPS (n=53)



Standardised pathways to improve clinical care

- A standardized CGA proforma
- Establishment of a working group in Delirium
- A Silver trauma pathway (for head injuries, non NOF injury)

POPS Prevention of Postoperative Paralysis Dartford and Gravesham 

Comprehensive Geriatric Assessment

PATIENT DETAILS	
Name: _____	Geriatrician Consultant: _____
DOB: _____	Surgical Consultant: _____
Hospital no: _____	Admission Date: ____/____/____
NHS no: _____	Assessment Date: ____/____/____

HISTORY OF PRESENTATION

Comprehensive Geriatric Assessment - 2013 Nov 04/17



This patient is more **AGITATED OR SLEEPY**
(Drowsy / lethargic / difficult to rouse / restless / hyperactive)

There is **ACUTE** change and fluctuation in **COGNITION/THINKING**
(Disorganised, incoherent speech / difficult keeping track of the conversation)

DELIRIUM SHOULD BE SUSPECTED

**** PERFORM 4AT + T I M E ****

<p style="text-align: center;">TRIGGERS</p> <p>Drugs / dehydration Electrolyte imbalance Level of pain Infection / SEPSIS Respiratory failure Impaction of faeces Urinary retention Metabolic causes / MI Surgery / Stroke / Head Injury</p>	<p style="text-align: center;">INVESTIGATE</p> <p>Observations + NEWS Collateral history re: cognition Physical examination *Urinary retention + constipation* Review medication Blood glucose Bloods (order set on PAS) - Consider ABG Urinalysis Imaging - Consider x-rays / CT Head</p>
<p style="text-align: center;">MANAGE</p> <p>Address the TRIGGERS Act on INVESTIGATIONS Consider pharmacological management if symptoms threaten patients safety or others * As per Trust Guidelines *</p>	<p style="text-align: center;">ENGAGE Everyone</p> <p>Patient, relatives & carers Explain diagnosis & give leaflet Document in medical notes & EDN Frequently orientate & reassure Ensure use of hearing/visual aids Encourage early mobilisation Maintain calm environment Avoid ward moves</p>

If delirium persists for 72 hours, please seek specialist advice (POPS, Orthogeris)

Date: ____/____/____ Time: _____

Colleague Feedback

- Staff agreed that POPS@DGT improved the overall care of the older surgical patient, improved management of medical problems, improved discharge planning, and improved older patients' experience were reported by >80% of those surveyed
- Improved interdisciplinary working with the introduction of MDMs
- Improved educational opportunities which facilitated better clinical care

- Least positive feedback came from surgical JDs, some reported an increased workload following introduction of the POPS service
- Those who remained less engaged expressed a **wish to see locally-generated data regarding service outcomes**

Patient Feedback



- A series of patient events have been held in order to engage our service-users in shaping the new service
- Improvements resulting from these events are numerous, and include coproducing documents such as patient information leaflets and maps that make clinic day easier and streamlining pathways

Our Patients' Opinions

"I think it's a brilliant service, I wish it would spread out further and further"

"I felt she was really listening, and as if I could ask her anything"

"I had a lovely appointment with POPS - it put my mind at rest"

"Someone at long last who's showing respect to us older folk, and not expecting us to be like a younger person"

"I just got the impression that she had an overview of what was going on with me"

"My concern was the anaesthetic would cause dementia. But she did all the tests, and reassured me"

Our successes

- Demonstrated successful translation of tertiary model to a DGH
- Progression at speed.....
- Co – production
- Shared learning – presentations, toolkit, publications
- Darzi fellow: Ruth De Las Cases
- Education
- Culture change – Trauma / POPS CNS post
- Ward MDMs for discharge planning
- **Data shows we ARE making a positive difference to patient care**

Our biggest challenges

- Busier than expected
- Small team
- Workforce dilemmas
- Outpatient service – referral pathway / criteria
- Cultural change:
 - 'It's fine in a teaching hospital but there is no evidence this approach works at DVH'
 - 'All they do is increase our workload and it makes no difference to patient care, in fact, they increase length of stay'
 - And my personal favourite.... 'We managed before you came....'

.....Thinking about our future

Improve recruitment

- Registrar training opportunities
- OOPE / registrar allocation
- Regional multidisciplinary study days

Expand the service

- Extension to Urology
- Increase Consultant number.

Develop CNS roles

- Further education
- Framework and pathway to ANP

Grow your own service tips....

- Adapt not adopt
- Data is power
- Attract attention
- Don't be afraid to go to the top
- Creative financial and workforce solutions
- Relationships are key
- Learning communities (POPS SIG, NHS Elect)
- (Almost) everyone comes around in the end

Thank You





Measurement for Improvement

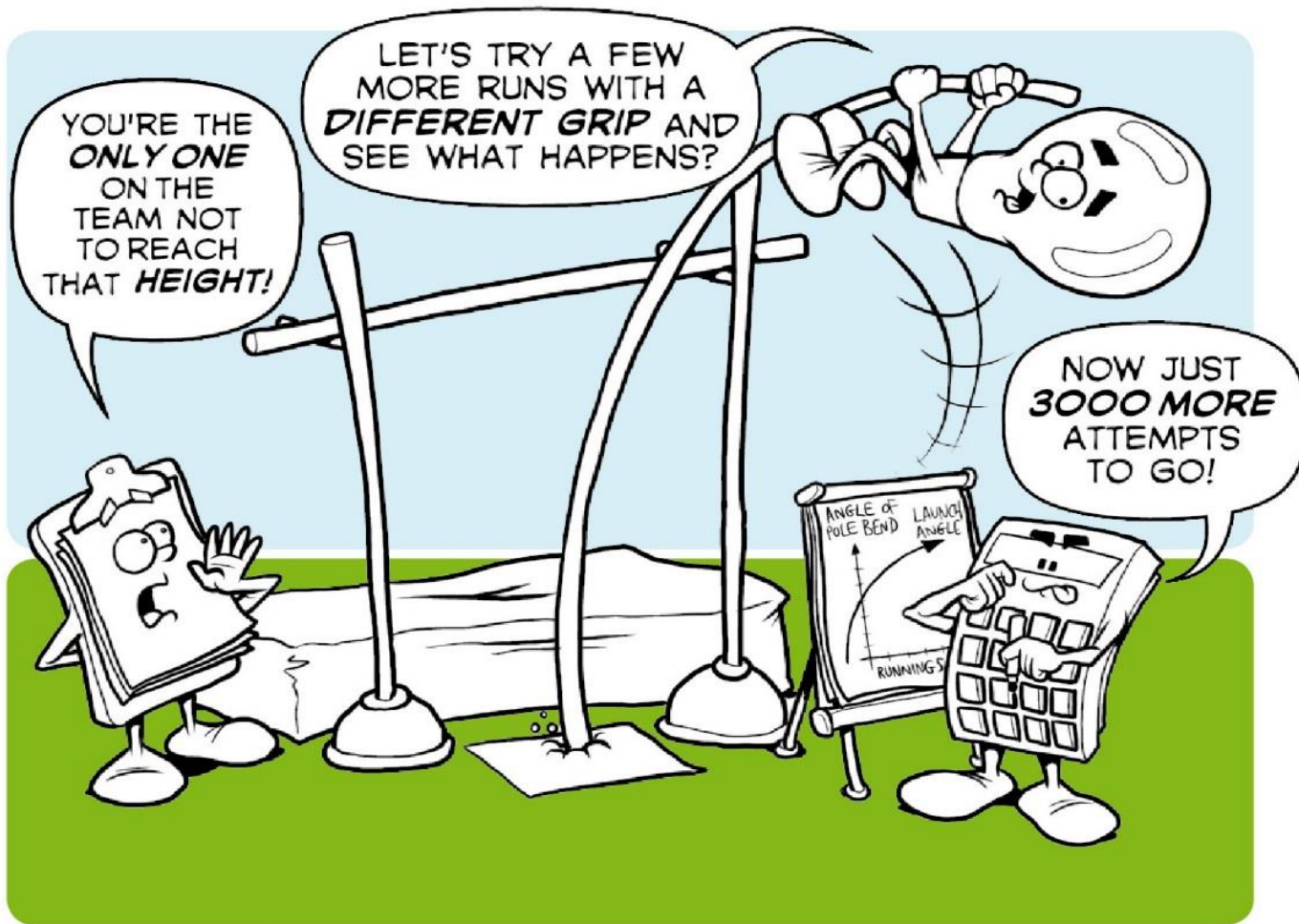
Matt Tite

In the next 30 minutes...

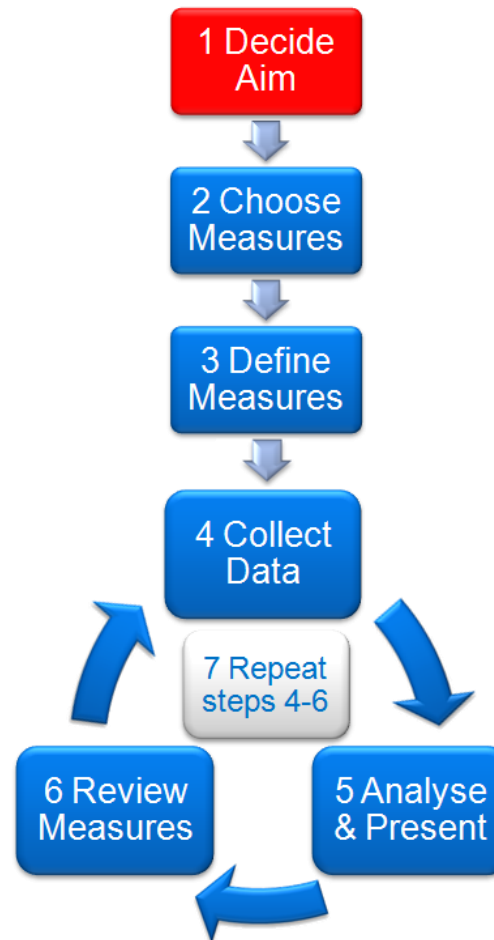
- Introduce our approach to measurement
- Tell you about the measurement offer
- Start our measurement journey
 - Aim statements
- Set some homework

POPS Measurement Journey

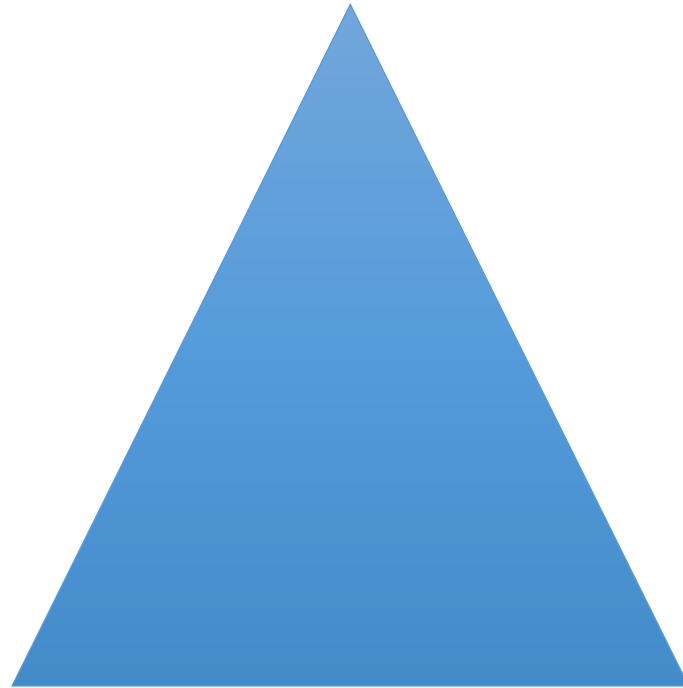
- **Launch Event (Part 1: 08/06/21):** Setting the Aim and understanding the scope using process mapping
- **Launch Event (Part 2: 22/06/21):** Driver diagram development session and the 7 steps to measurement
- **Measurement Masterclass (Date In July):** Measurement for Improvement knowledge, how and what to measure
- **Your Measurement visit**
- **Mid Programme:** Share your working data and the tools you are using for data collection
- **Final Core Event:** Your charts



The 7 steps to measurement

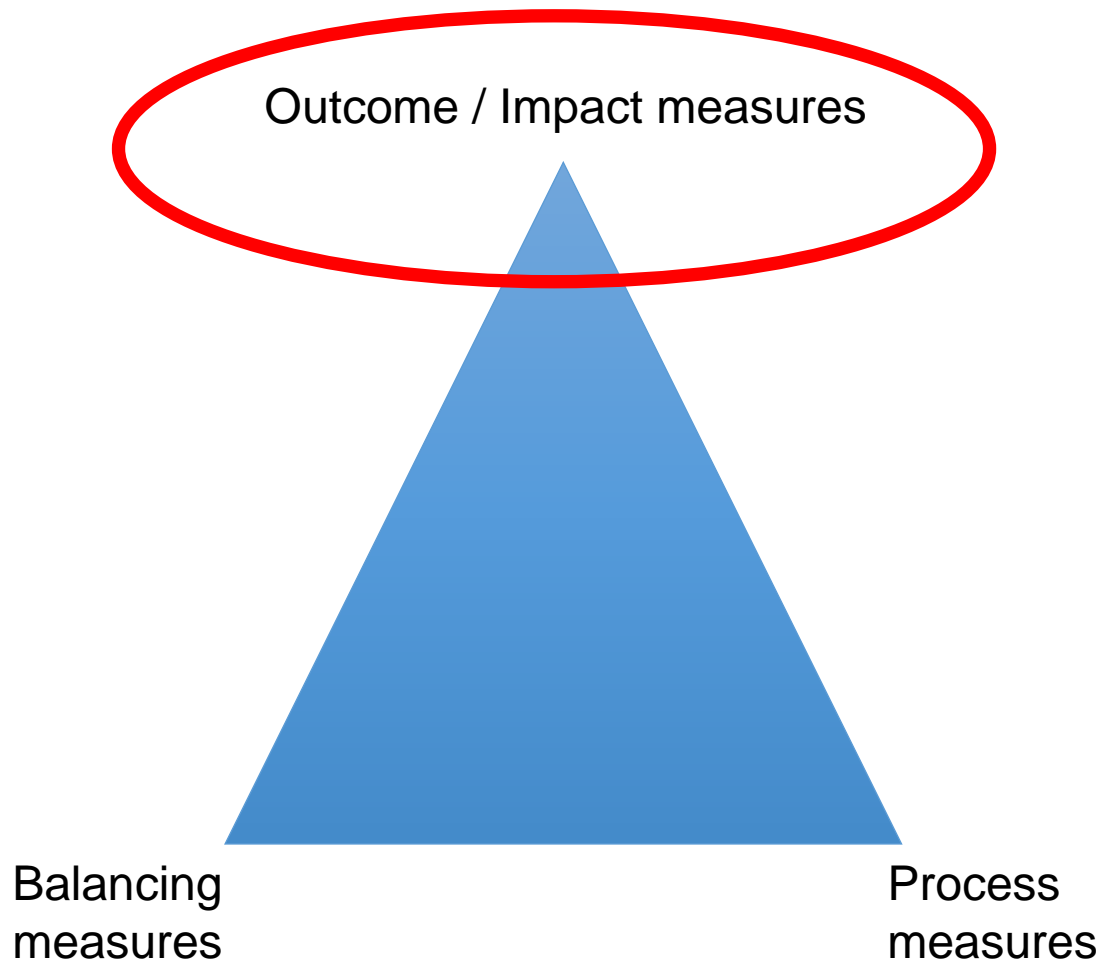


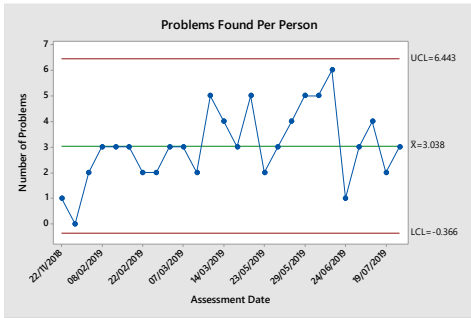
Outcome / Impact measures



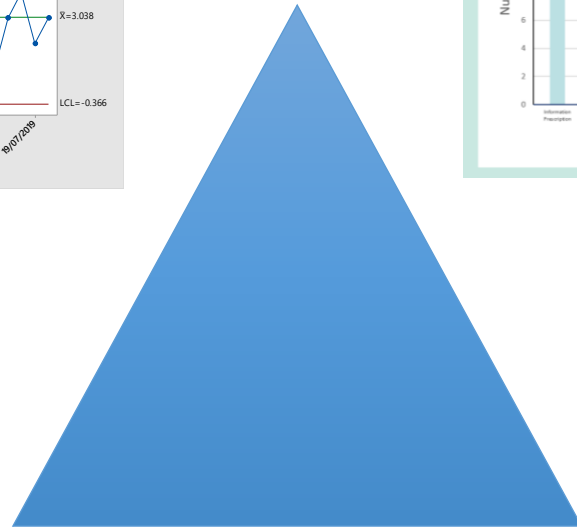
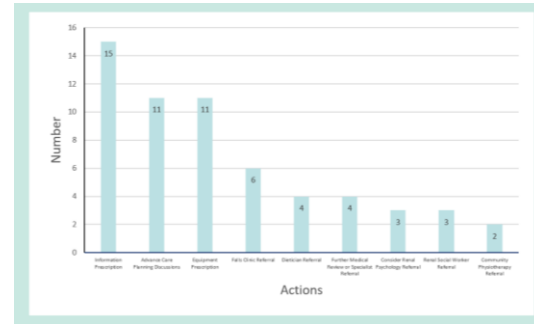
Balancing
measures

Process
measures



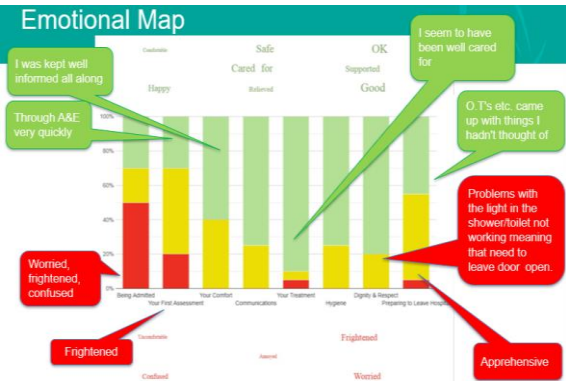


Data / Graphs



Patient Perspective

Staff Perspective



What shall we measure?



Activity One : Where are you wanting to go?

For your POPS service, what would 'Perfect' look like?

- Open a blank email
- Write in your sentence
- Sent it to your project lead

Where are you wanting to go?

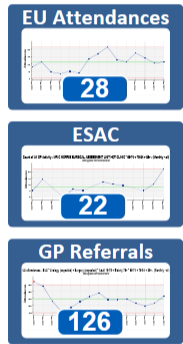
Homework

Work as a team – have you written the same things?

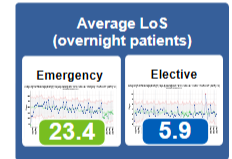
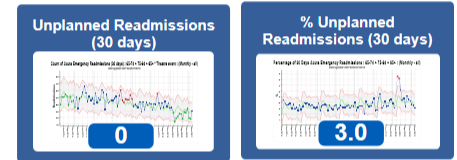
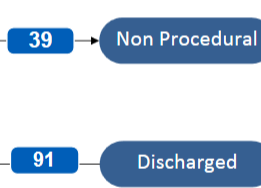
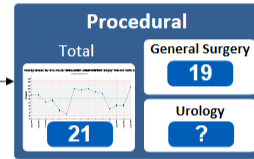
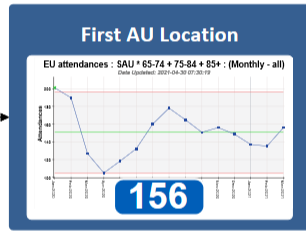
If so, see if you can create an aim statement

Bring your combined aim statement to driver diagram session (22nd June)

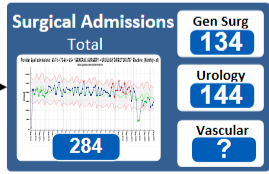
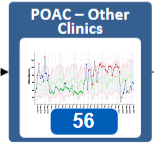
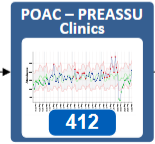
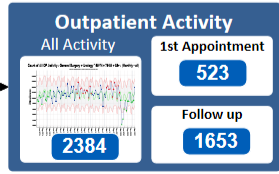
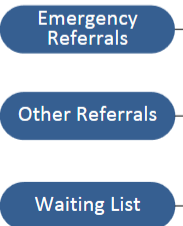
Our Pathway Map



Emergency Pathway



Elective Pathway



This tab is set to show **over 65s**. Use the **Patient Age filter** to drill down to specific age bands within this group of patients.

The admission values **include all** General Surgery and Urology EMERGENCY admissions not just those that visited SAU.

Homework

Can you create a functional map:

- Where do your patients come from
- What are the stages that they currently go through
- Has C19 changed the process?

Bring your functional map to driver diagram session (22nd June)

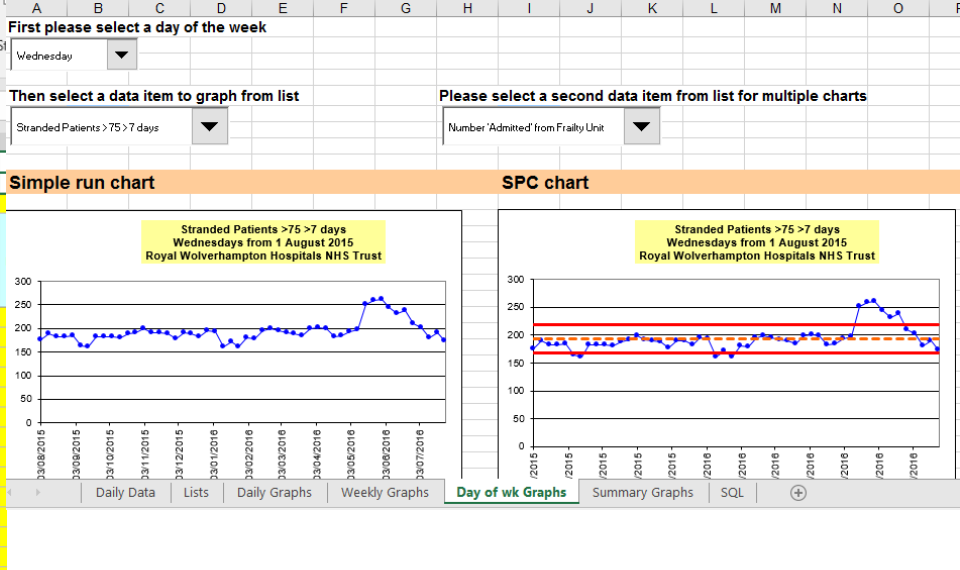
Measurement and analysis support

- Measurement for Improvement Masterclass
- A measurement visit
- An interactive measurement guide
- Webinars
- Telephone support
- SPC tools

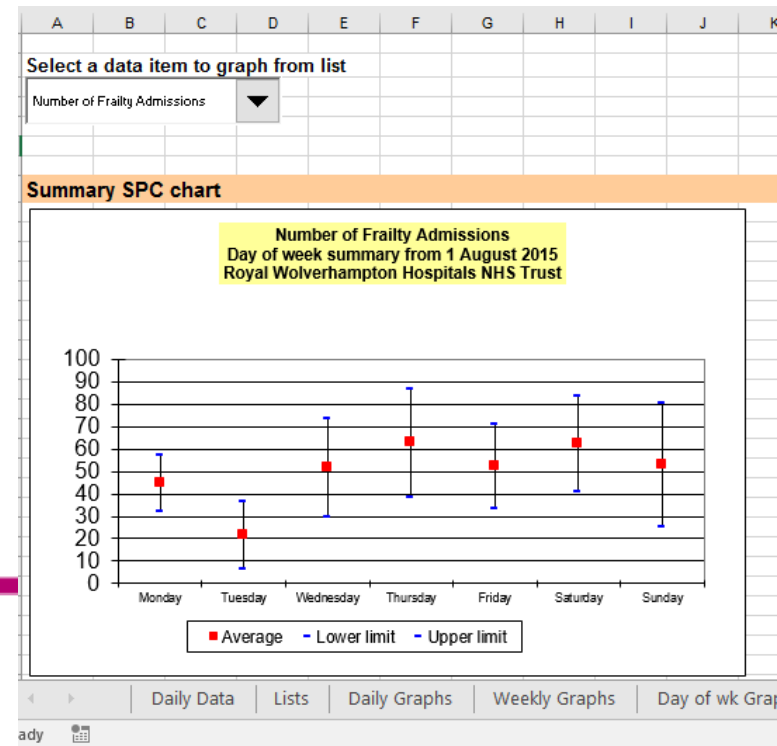
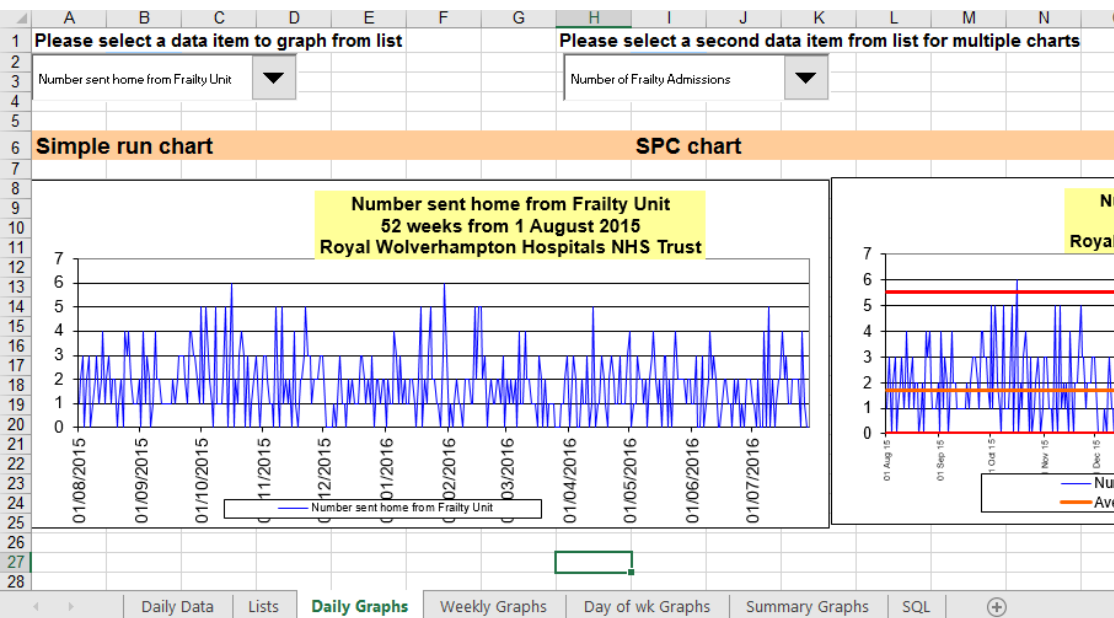
Five Measurement Challenges

1. Are you clear on your aim?
2. Have you selected the right measures to quantify the benefits?
3. Are you tracking the right patient groups - how do you identify these?
4. Can you map and quantify the flow of older patients through your system?
5. Will you be able to demonstrate the impact of implementing your improvements?

mydate	Stranded Patients >75 >7 days	Stranded Patients >80 >14 days	Number of Frailty Admissions	Number sent home from Frailty Unit	Number 'Admitted' from Frailty Unit	Daily Average Time spent in A&E (Frailty Only)	Total A&E attendances that are Frail	Number of Frailty Outliers	Number of readmissions within 30 days
01/08/2015	179	89	40	1	11	25	36		16
02/08/2015	181	89	31	2	18	41	45		20
03/08/2015	175	87	43	3	7	22	33		40
04/08/2015	174	86	62	0	14	30	33		22
05/08/2015	176	85	52	2	14	22	32		33
06/08/2015	172	86	67	3	16	63	55		33
07/08/2015	178	87	52	0	13	21	33		29
08/08/2015	181	92	46	1	14	37	42		16
09/08/2015	186	93	23	2	15	28	41		12
10/08/2015	189	92	46	3	9	18	33		43
11/08/2015	198	87	59	1	13	25	31		22
12/08/2015	191	88	62	2	10	32	40		36
13/08/2015	194	88	64	4	11	37	39		36

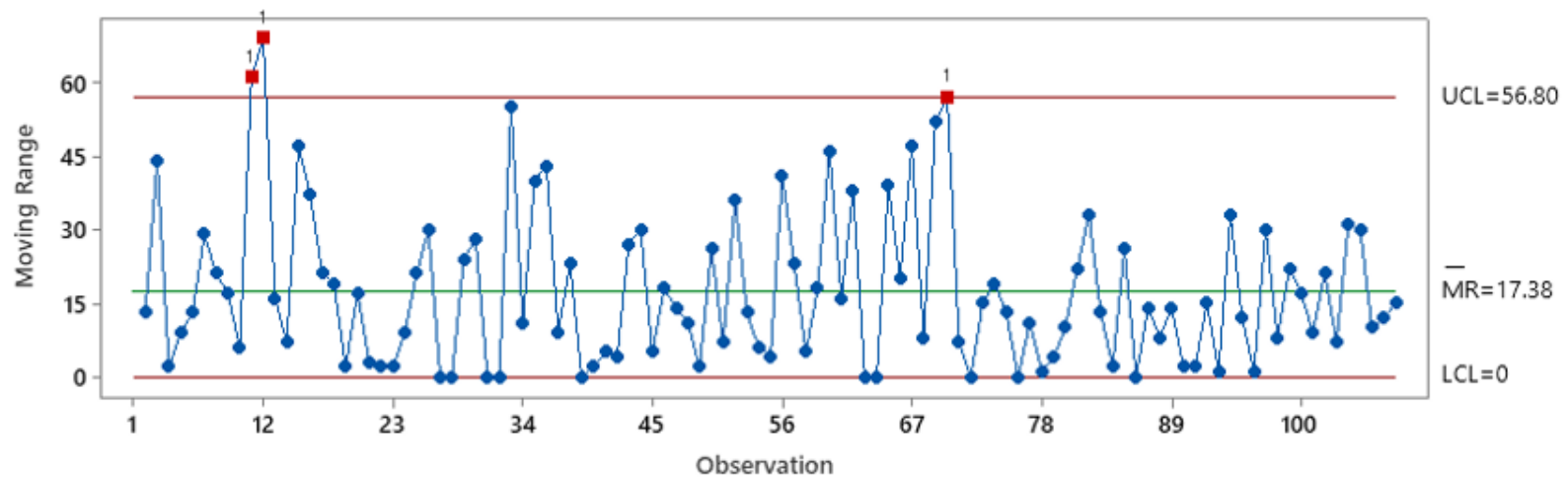
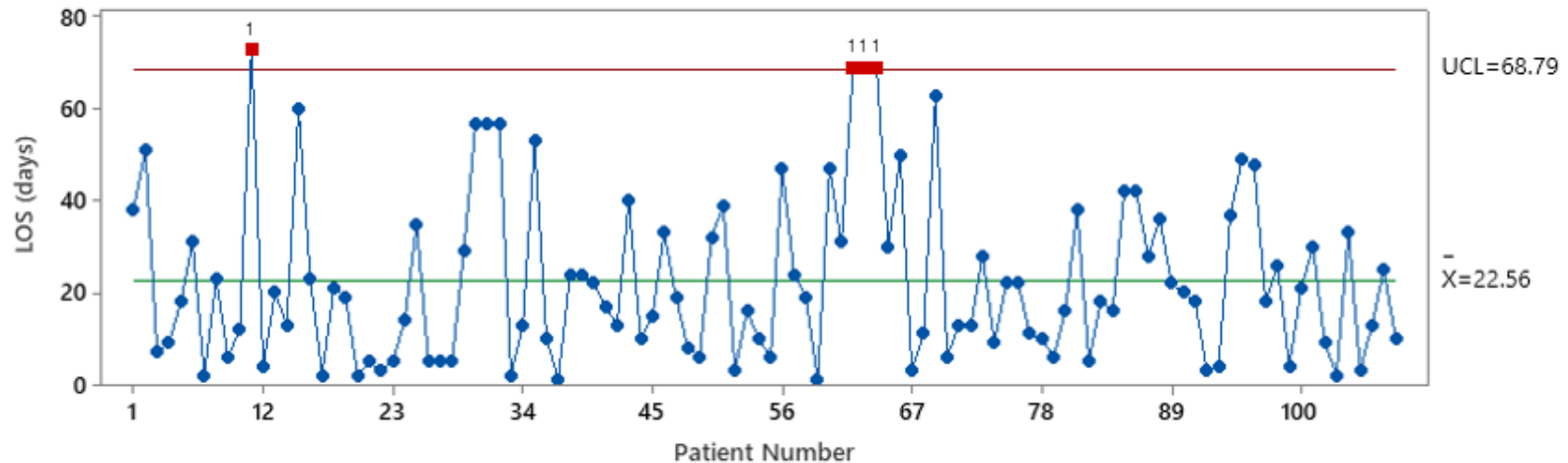


Use the measurement tool...

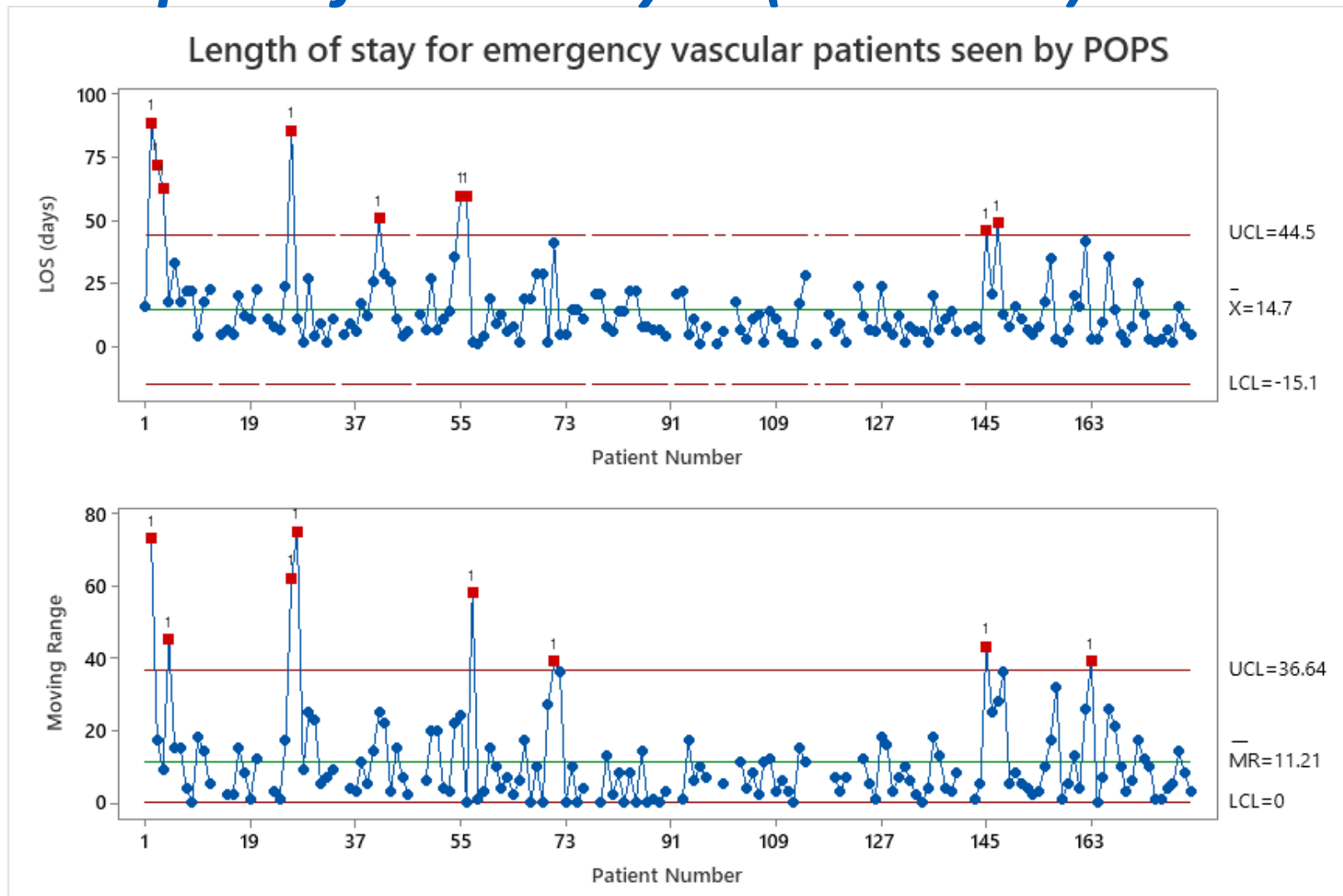


Examples of SPC analysis (East Kent)

Length of stay for emergency vascular patients admitted pre-POPS



Examples of SPC analysis (East Kent)



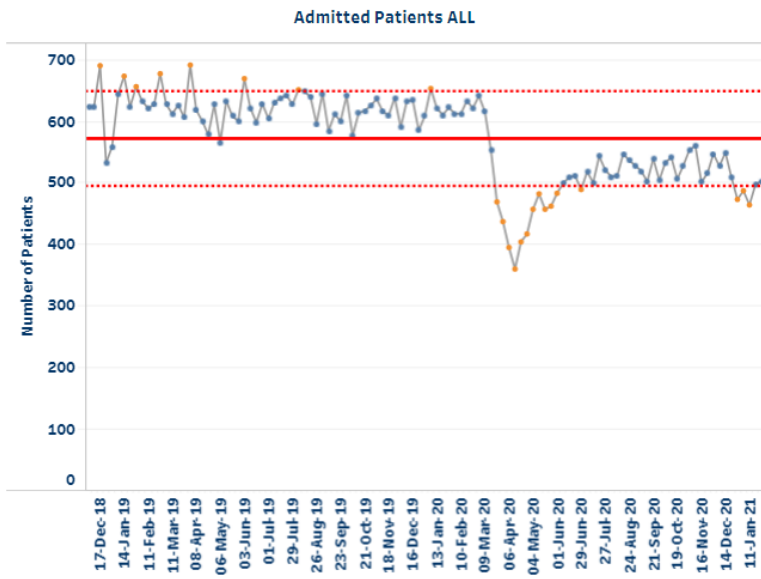
Frailty Opportunity Identifier

Frailty Dashboard National About

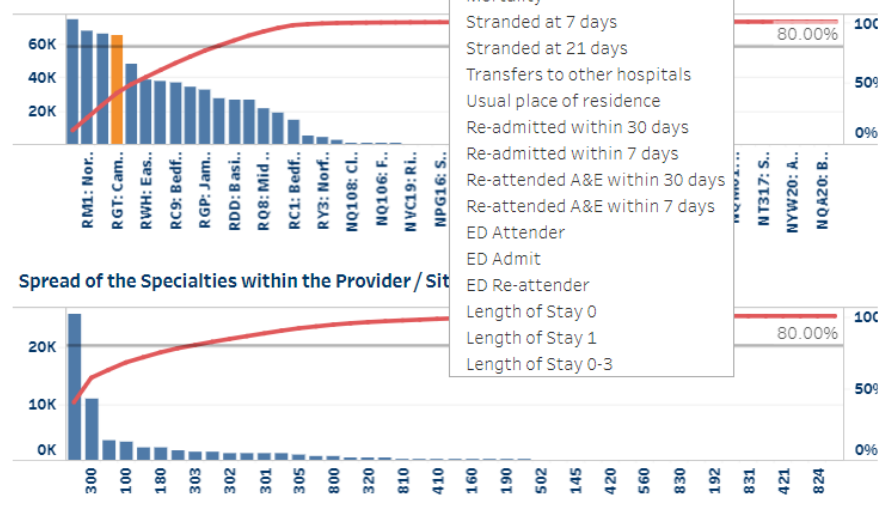


NHS Elect Acute Frailty Network Frailty Opportunity Identifier

Trust Name: Cambridge Univers... Hospital: (All) CCG Name: (All) Speciality: (All) AGE Range: (All) Frailty Type: (All) Data Item 1: ALL Data Item 2: ALL



How does the selected Trust compare to other Trusts



ALL vs ALL

Data Item 1 Data Item 2

To get your own login..

<https://apps.model.nhs.uk/register>

<https://ncdr.england.nhs.uk/Account>

www.youtube.com

Using the Online Frailty Opportunity Identifier Tool



Wants and Offers

Lisa Godfrey

Want's and offer's

- Think about what you 'want' to know about POPs and the knowledge you have to 'offer' about developing POPs services
- Copy the Jamboard link from the chat function into your web browser:
 - if your surname starts with A-L please use Jamboard One
 - if your surname starts with M-Z please use Jamboard Two
- Write what you 'want' to know on the WANT board on a **pink** sticky note
- On the OFFERS board write down what you can 'offer' on a **green** sticky note – *make sure you also include your name, organisation and email address as we may ask you to share your offer in the next session on 22 June.*

World café on Tuesday 22 June





Next steps

*What's next on your POPS
Improvement Journey?*

Simon Griffiths

Next steps

As a team think about the following:

- Ensure you've identified core members of your team e.g. your Exec Sponsor, Analyst, Project Manager etc.
- Access the POPS website www.popsolderpeople.org and let us know what content would be useful
- Access the POPS Toolkit at the website
- Get the date for your virtual site visit in your diary
- Then, work with us to schedule the date for your virtual measurement site visit.
- Register for the next session on 22 June – 10am to 12:30pm, and the next Measurement session in July (invites to follow).

3, 2, 1

As a team think about the following:

3 things I am going to make sure happen, to embed or further develop in our POPs service plans

2 people I need to speak to about our plans for POPs

1 thing I am most excited about in our POPs service plans



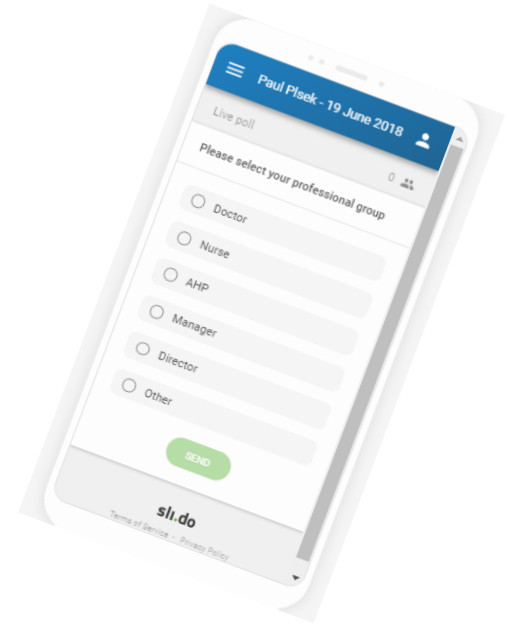
Summary and closing remarks

Dr Jugdeep Dhesi

slido

Open a browser on any laptop, tablet or smartphone

- Go to [slido.com](https://www.slido.com) or scan the QR code below
- Enter the event code **#POPSLaunch1**
- Use the polls to give us feedback about the day



*Think about the support you
want/need and let the
programme team know at*

networksinfo@nhselect.org.uk