Perioperative medicine for older people (POPS)

Evaluation, optimisation & ER

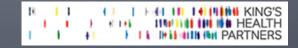
Jugdeep Dhesi, Geriatrician Guy's and St Thomas' NHS Foundation Trust Deputy Director Centre for Perioperative Care Vice President, British Geriatrics Society









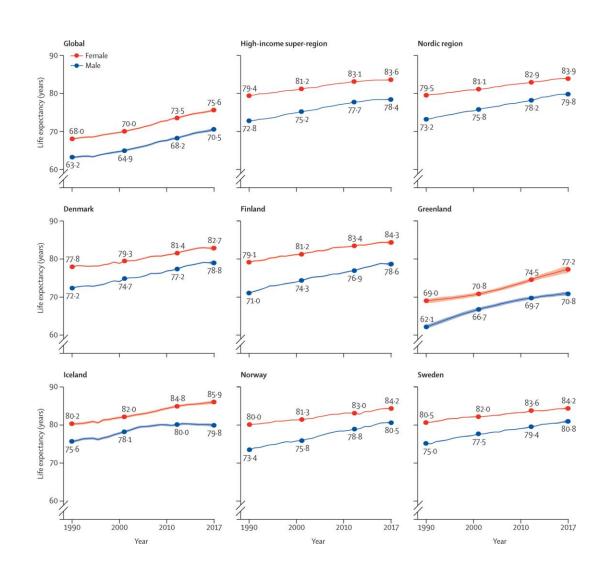




The success story of health and social care, globally...

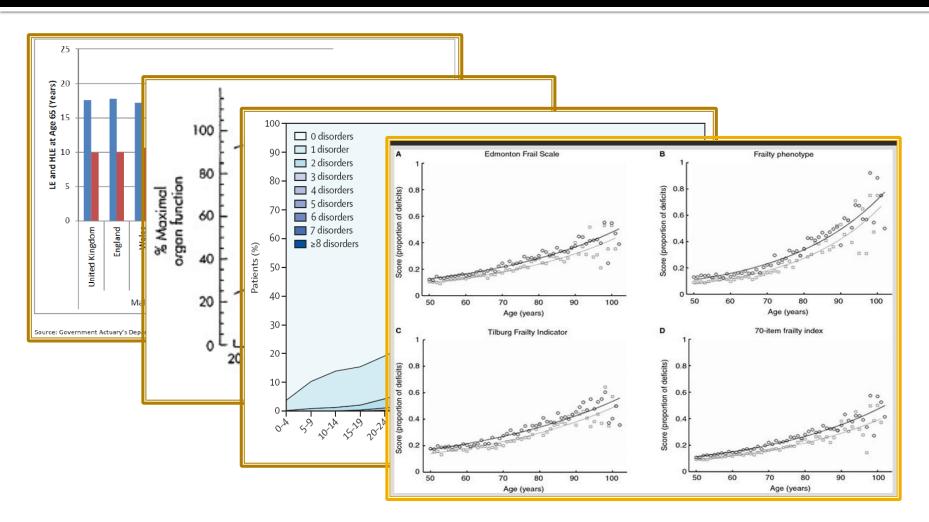


...and in Nordic regions...



Lancet https://doi.org/10.1016/S246 8-2667(19)30224-5

...has come with an associated challenge...



Theou JAGS 2014;901-906, Barnett Lancet 2012

...such that we see patients like Johanna...

78 yrs old F

Living alone

No support

'Difficult'

historian

Osteoarthritis

Diabetes

Hypertension

SOB?cause

Anaemia

No surgery

HbA1c 8.2%

BP 170/88

ECG NAD

CXR NAD

Hb 100g/l

Elective colorectal cancer (orthopaedic/vascular/gynae/any) surgery

...where the following can happen...

Declines surgery

- Understanding Info poorly communicated
- Understanding –Sensory/cognitive impairm't
- Health literacy life expectancy, impact of ca/stoma
- Burden of intervention

Referred for medical opinion

- Anaemia
- Diabetes
- Shortness of breath

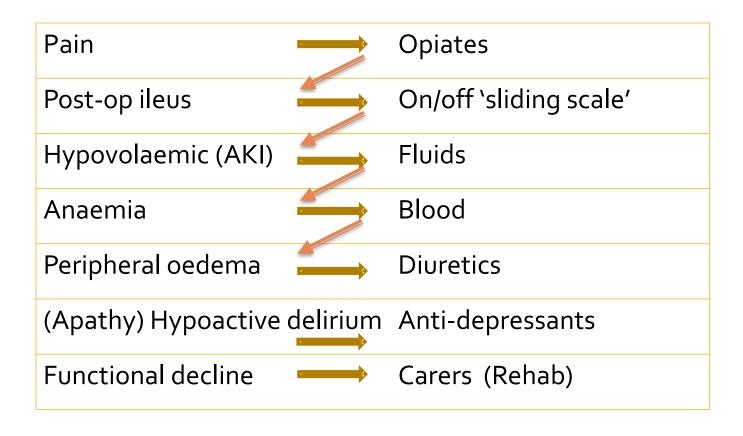
Cancelled on day of surgery

- Not followed fasting/medicines instructions
- Concern about medical status (anaemia, SOB)

...or can proceed on enhanced recovery programmes...



...but on the wards we still see such scenarios



Older people are at higher risk...

Clinician reported outcomes

- Morbidity
- Mortality

Patient reported outcomes

- Recovery
- Experience, satisfaction

Process related outcomes

- Harm and complaints
- LOS, readmissions
- Cost



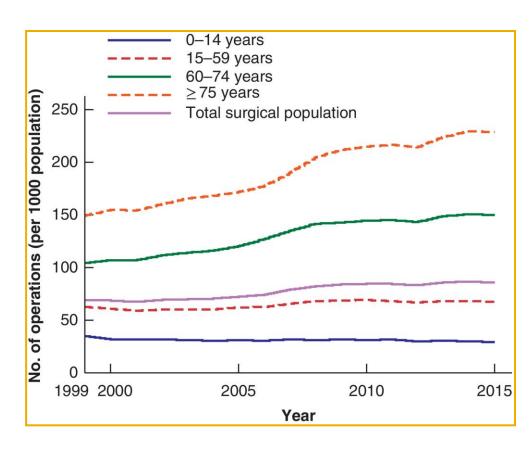




...and it's a numerical problem too...

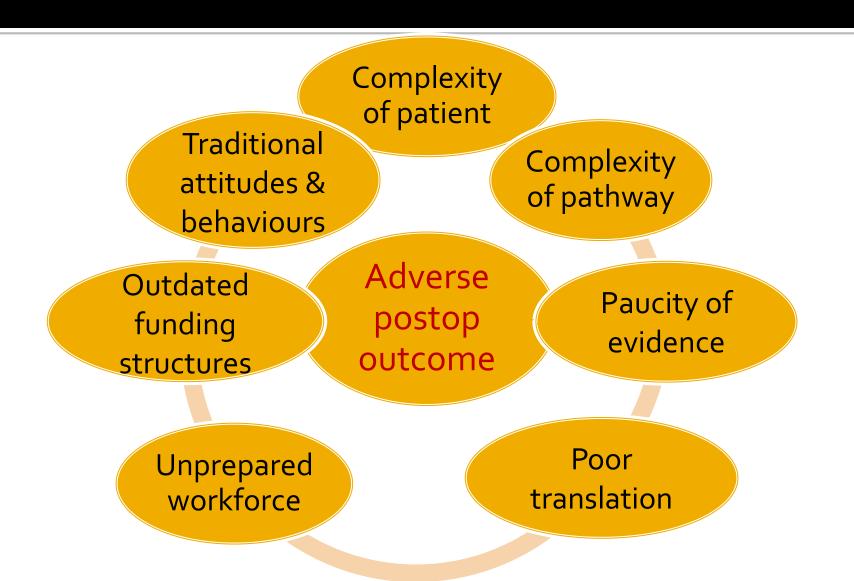
Twice as many people aged over 65 years have surgery compared to those under 65 years

Even more so now in COVID recovery



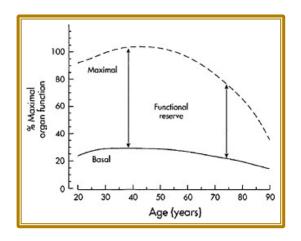
Fowler et al, BJS 2019 : 1012-1018

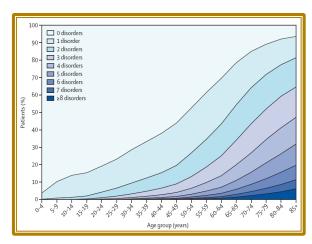
Factors contributing to poor outcomes

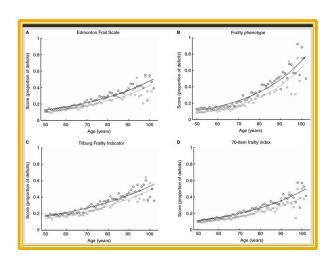


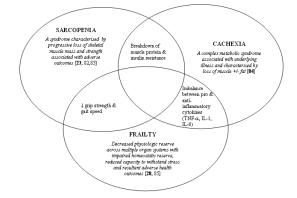
Addressing the complex patient...

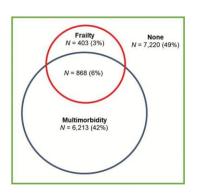


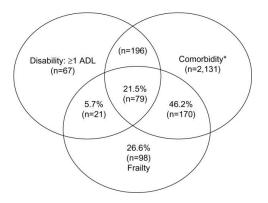






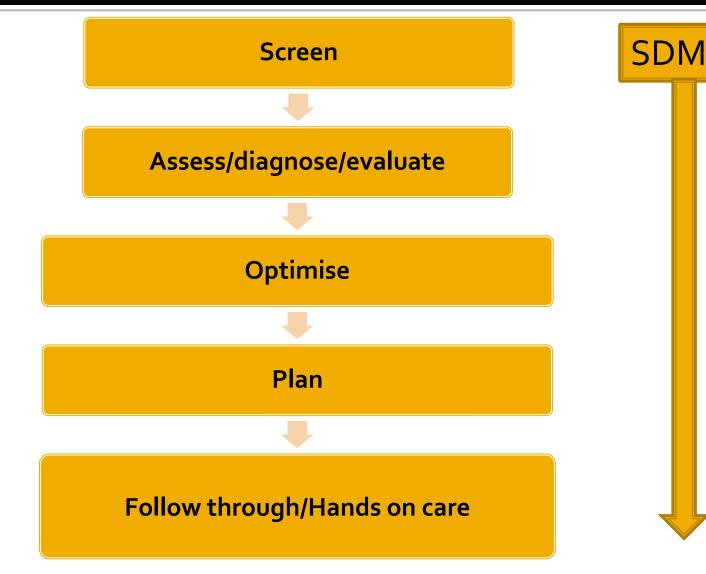






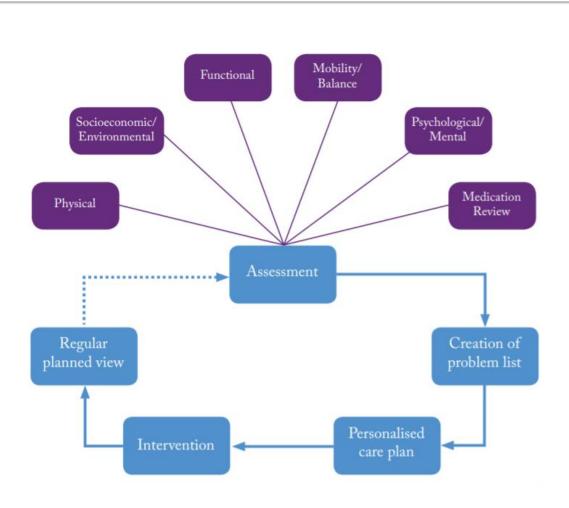
...in a complex pathway, needs an underpinning methodology





...sounds a bit like...





- Hx and examination
- Objective scores
- Existing & new diagnoses/issues
- Multidisciplinary assessment/treatment
- Multidisciplinary interventions
 - Medications
 - Lifestyle
 - Exercise
 - Psychological
 - Home adaptions

https://www.bgs.org.uk/resources/

...CGA & optimisation



30% higher chance of being alive and in own home NNT 13 (OR 1.31, Cl 1.15-1.49)

Originally published as volume 2, issue oord

Clinical practi

Compre trials

A.E Stuck,

Targeted
Objective tools
Multidomain
Hands on
Follow through

PUBLIC HEALTH, OXFORD

Cochrane Library

Cochrane Database of Systematic Reviews

rehensive geriatric assessment for older adults ted to hospital (Review)

ardner M, Tsiachristas A, Langhorne P, Burke O, Harwood RH, Conroy SP, Kircher T, D, Saltvedt I, Wald H, O'Neill D, Robinson D, Shepperd S

We have used this methodology...



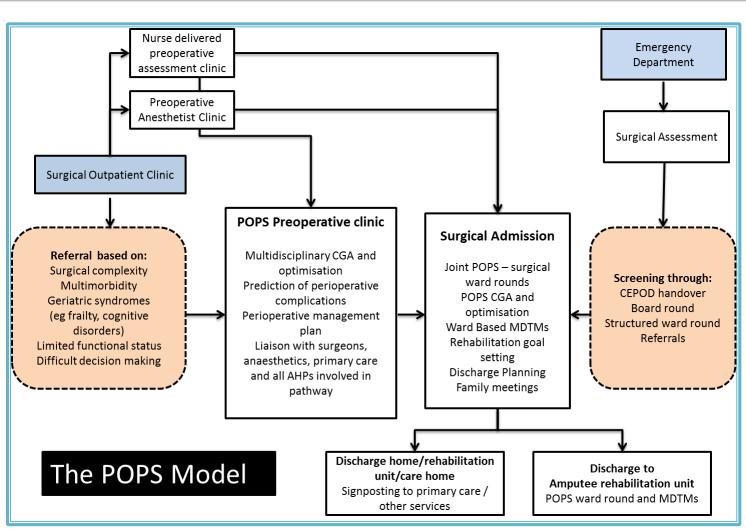


Guy's and St Thomas' NHS Foundation Trust



...in the POPS@GSTT model





POPS surgical referral pathway





Do they have...?

- Multimorbidity (more than 2 coexisting conditions requiring assessment +/- optimisation)
- Frailty (reduced ability to adapt to stress of perioperative period)
- Functional dependency (requiring support in activities of daily living)
- Difficult decision making (difficulties with capacity to consent or uncertainty regarding the most appropriate intervention)

Are they >65yrs and having...?

- Cystectomy
- Major gynaeoncology surgery
- Oesophagectomy
- · Pelvic exenteration
- · Major head and neck surgery
- Open or complex abdominal aortic aneurysm repair

If considering POPS for patient under 65yrs please contact a member of the POPS team prior to referral

Refer



Creating the referral

Refer to POPS using **EPR**

- 1. Type **'POPS'** into manual entry field form
- 2. Complete the form



POPS will...

Submit

- <u>Prioritise</u> referral and appointment accordingly (e.g. Cancer pathway patients)
- Inform the patient of appointment via post and phone call (with reminder before appointment)
- 3. <u>Document</u> POPS outcome letter (at least draft) on EPR within 72 hours (in cases when admission for surgery before 72 hrs, email summary will be sent to surgical team)
- 4. <u>Record</u> outcome of assessment on PiMS ("stable to proceed to surgery" or "Not stable to proceed see EPR")
- <u>Liaise</u> with admissions, surgeon and anaesthetic lead by email if concerns regarding perioperative management

Remember – If referred to POPS, <u>no</u> separate preoperative assessment clinic appointment required if surgery within 4 months

Contact :ageing and health POPS team (email) or x82092 or x88617 if you have any queries.

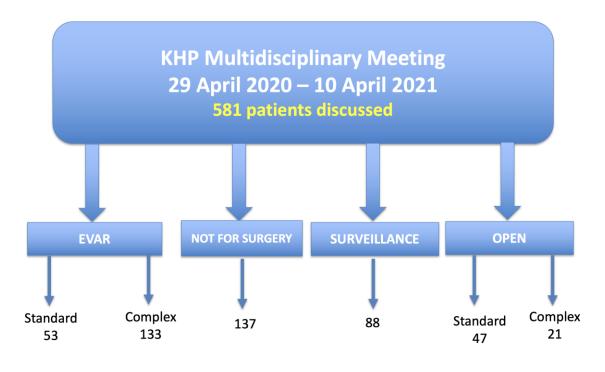
What interventions does CGA prompt in the elective setting?

| Component of care | Proportion of patients (n=500) | | | |
|----------------------------|--|--|--|--|
| Assessment | 2/3 new diagnosis | | | |
| Optimisation | 1/2 lifestyle advice 3/4 meds changed 1/4 therapy interventions (diet/exercise) | | | |
| Communication | 1/5 multispecialty discussion 4/5 anticipation of postoperative complications | | | |
| Referral | 1/7 preoperative investigations 1/10 anaesthetic input 1/20 organ specialty advice | | | |
| Anticipatory care planning | 1/10 anticipatory care planning New Congruent Long term Condition Management | | | |
| Long term condition mx | 1/3 LTC management referral | | | |
| SDM | Documented in 98% Figure 3: Comprehensive Geriatric Assessment prompted interventions | | | |

Collaborative shared decision making

15% of patients do not proceed with the surgery initially proposed

23% of our AAA population



Acknowledgement – Modarai &Tyrell, GSTT

Acknowledgment KHP colleagues:

Vascular Surgery, Interventional Radiology, Cardiothoracic Surgery, Peri-operative Medicine, Anaesthetic and Ultrasonic Angiology teams

Preoperative CGA for Doreen

OA

Diabetes

HTN

SOB?cause

`Difficult'

historian

Pain

HbA1c 8.2%

BP 170/88

Ischaemic ECG

Anaemia

Deconditioning

Cog impair't

Social issues

Assess/Treat (meds/physio)

Assess/Treat/plan/refer

Assess - ABPM/treat

Assess/optimise/refer

Diagnose/Iv iron

Diagnose/Tx/Physio/OT

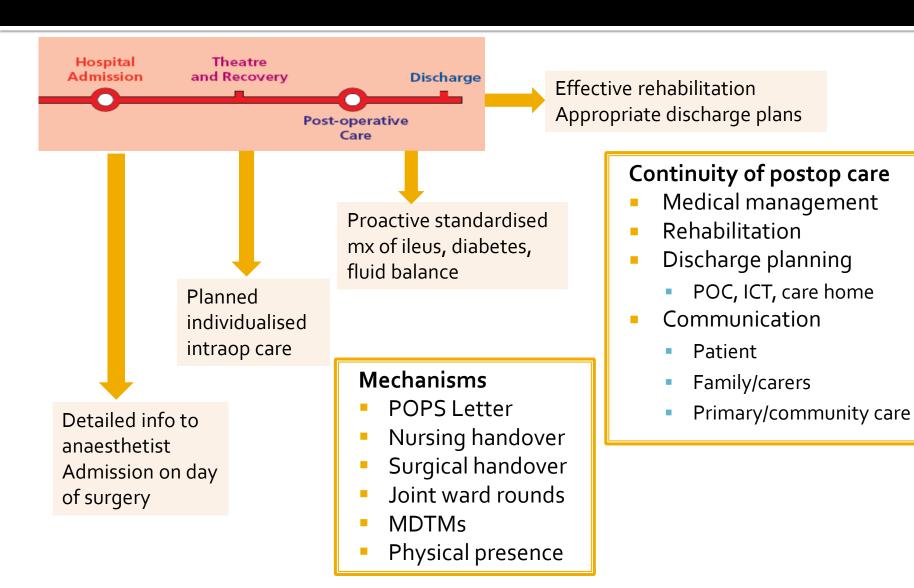
Diag/assess/plan/long term

Equipment/POC

Psychological support

Discharge planning

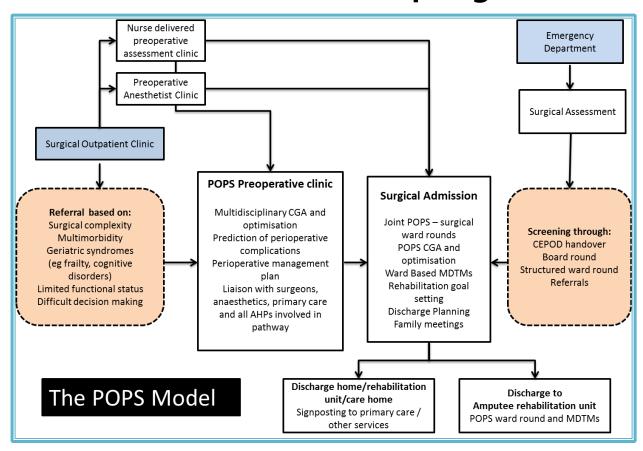
...and postoperatively



This service is provided across emergency and elective surgery...

ELECTIVE 1600 PATIENTS P/A

EMERGENCY 2400-3000 PATIENTS P/A



...and embedded into routine clinical care at GSTT



| Guys | St Thomas' | |
|------------------------|----------------------|--|
| Orthopaedic – elective | Orthopaedic – trauma | |
| Urology | Upper GI/Lower GI | |
| Head and Neck | Vascular | |
| ENT | Plastics | |
| | Cardiac surgery | |
| | Gynaecology | |

Amputee Rehab Unit

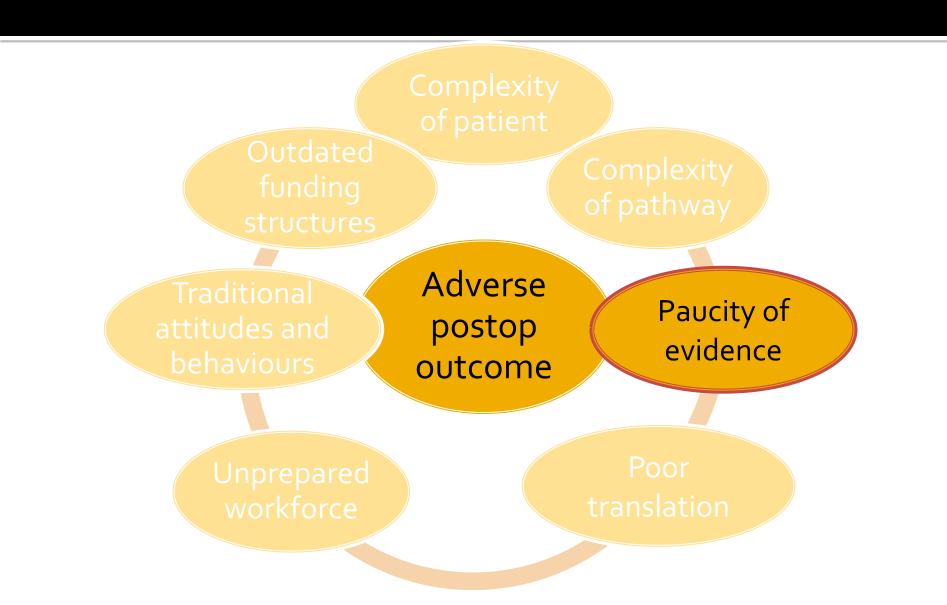
| Elective | |
|-----------|--|
| Unplanned | |

Out patient work

In-patient work

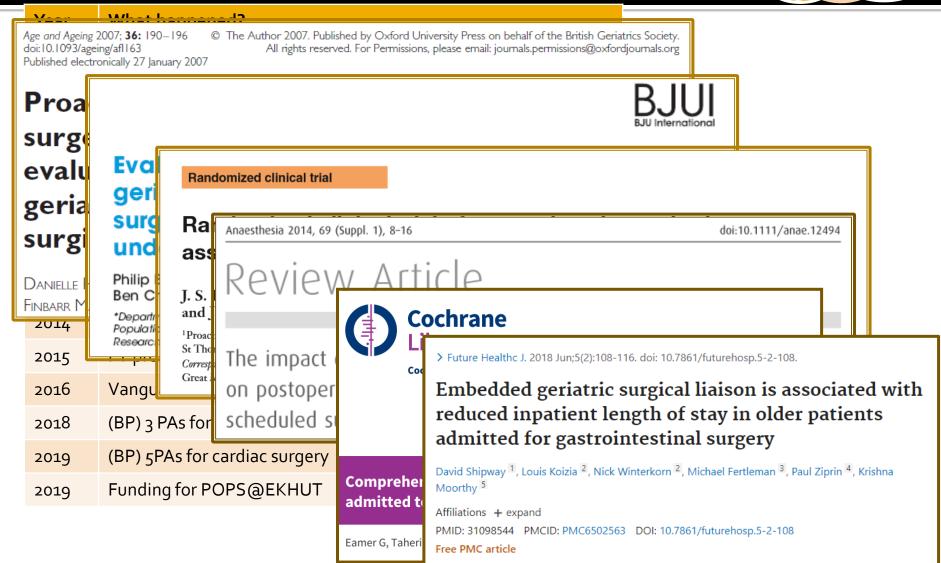
Community based

Factors contributing to poor outcomes

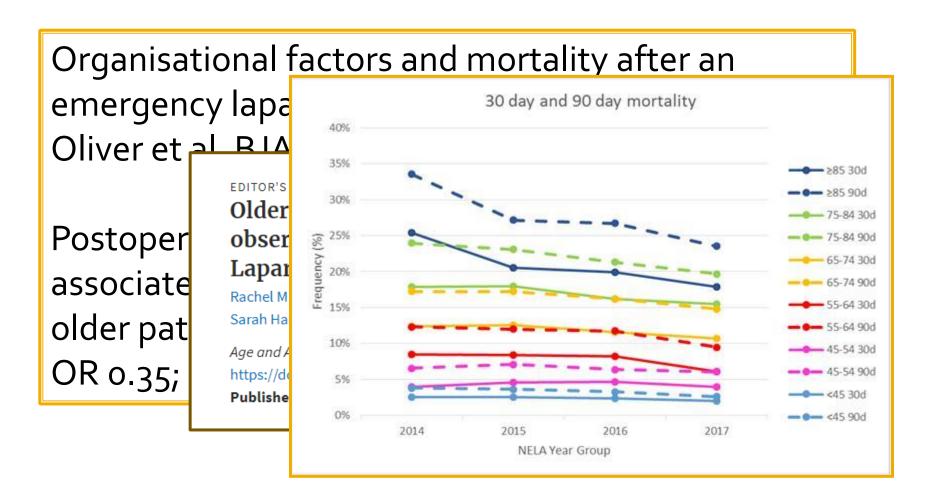


The evidence...





...now supported by big data studies...



...with increasing evidence

Received: 12 February 2018 | Accepted: 29 March 2018

DOI: 10.1111/ijcp.13096

ORIGINAL PAPER

WILEY CLINICAL PRACTICE

Establishing a proactive geriatrician led comprehensive geriatric assessment in older emergency surgery patients:
Outcomes of a pilot study

Matthew C. Mason¹ | Amy L. Crees² | Matthew R. Dean³ | Nahida Bashir³

Preoperative geriatric assessment and tailored interventions in frail older patients with colorectal cancer: a randomized controlled trial

N. Ommundsen*†, T. B. Wyller*†, A. Nesbakken*‡§, A. O. Bakka*¶, M. S. Jordhøy***

E. Skovlund†† and S. Rostoft*†

*Institute of Chrical Medicine, Odo University Hospital, Odo, Norway, *Department of Geristric Medicine, Odo University Hospital, Odo, Norway, *The Cancer Besserth Center, Odo University Hospital, Odo, Norway, *The Cancer Besserth Center, Odo University Hospital, Odo, Norway, *The Cancer Besserth Center, Odo University Hospital, Odo, Norway, *The Cancer Unit, Institute it logital Trust, Hamar, Norway, and ††Cepartment of Public Health and Narsing, NITNU, Norway

**Precised II November 2016; accepted 26 April 2017; Accepted Article online 26 June 2017

**Abstract*

Can comprehensive geriatric assessment be delivered without the need for geriatricians?

Age and Ageing 2019; **48:** 643–648 doi: 10.1093/ageing/afz025 Published electronically 22 March 2019 © The Author(s) 2019. Published by Oxford University Press on behalf of the British Geriatrics Society.

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Can comprehensive geriatric assessment be

A formative evaluation in surgical settings

DAVID KOCMAN¹, EMMA REGEN¹, KAY PHELPS¹, GRAHAI SIMON CONROY¹ Saripella et al. BMC Anesthesiology (2021) 21:127 https://doi.org/10.1186/s12871-021-01337-2

BMC Anesthesiology

RESEARCH ARTICLE

Open Access

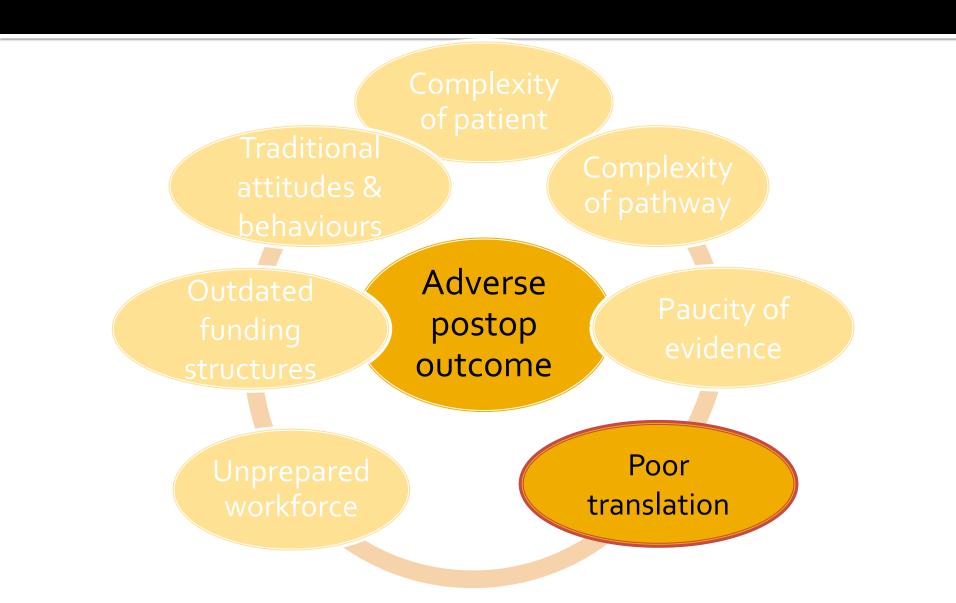
Effects of comprehensive geriatric care models on postoperative outcomes in geriatric surgical patients: a systematic

ravious and mata analysis

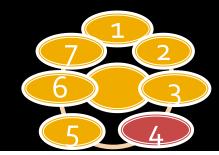


Concerns about power, methodology
Often due to a lack of fidelity to CGA

Factors contributing to poor outcomes



What about translation?



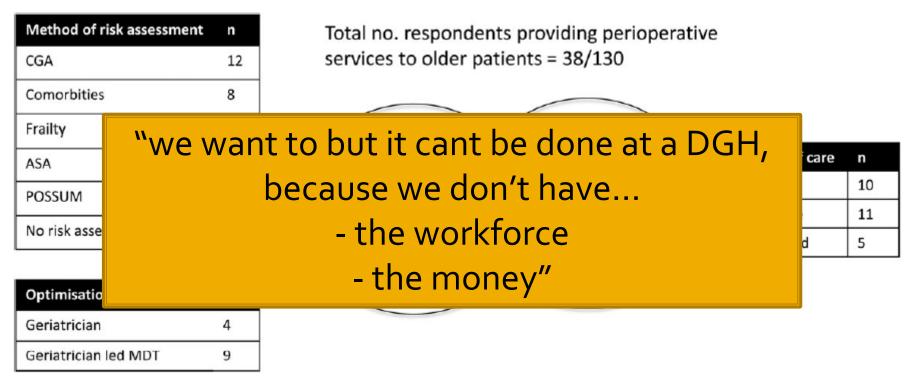


Figure 1. Features of perioperative services provided by geriatric medicine in the UK.

The workforce



AHPs

- Curriculum, Competency framework
- E-learning & face to face modules

FY

- Modular training programme
- From contemplation to recovery

Specialist

- Curriculum
- OOPE/T
- Darzi fellows

National/

International

- E-learning modules
- MSc
- POPS conference

The money



- Number of inv
- Number of col
- Number of me
- Duplication of

Age and Ageing 2021; 1–8 doi: 10.1093/ageing/afab094

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RESEARCH PAPER

Preoperative comprehensive geriatric assessment and optimisation prior to elective arterial vascular surgery: a health economic analysis

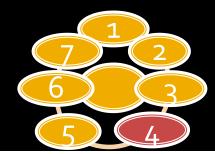
Judith S. L. Partridge^{1,2,†}, Andrew Healey^{3,†}, Bijan Modarai^{4,5}, Danielle Harari^{1,2}, Finbarr C. Martin², Jugdeep K. Dhesi^{1,2,6}

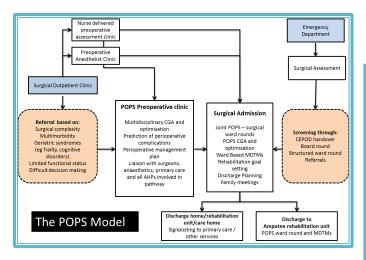
- Late cancellations
- Length of stay
- Readmissions
- Informal/formal social care

Surgical directorate funding

- Cost savings
- Ring fencing of services

And so it can be done...

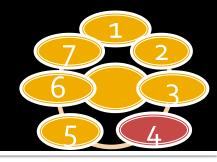








...by using QI methodology



Co-design & production Adaption not adoption Ensuring fidelity Leadership

- Clinical (resilience)
- Strategic (culture)
- Financial

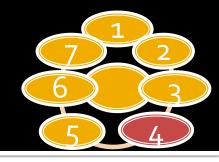






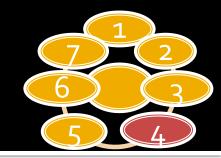


...with replicable results at a DGH

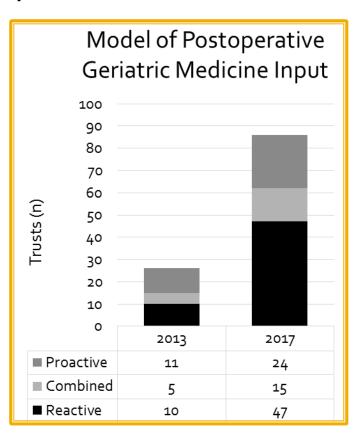


| | Age | Documented co-morbidities | Median LOS (days) | 30 day re-admission |
|-------------------------|------|---------------------------|-------------------------|---------------------|
| Pre POPS (n=50) | 77.7 | 2.42 | 8 | 30% |
| First 4/12 POPS (n=299) | 77-3 | 6.3 | 6 | 11% |

...and is happening across the UK (and further afield)



- 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



Joughin et al Age & Ageing 2019

But scale up/roll out, through knowledge mobilisation, needs to happen at pace

Test systematic rollout at a 'small' number of sites

- Toolkit
- Coaching and mentoring
- Support with measurement for improvement



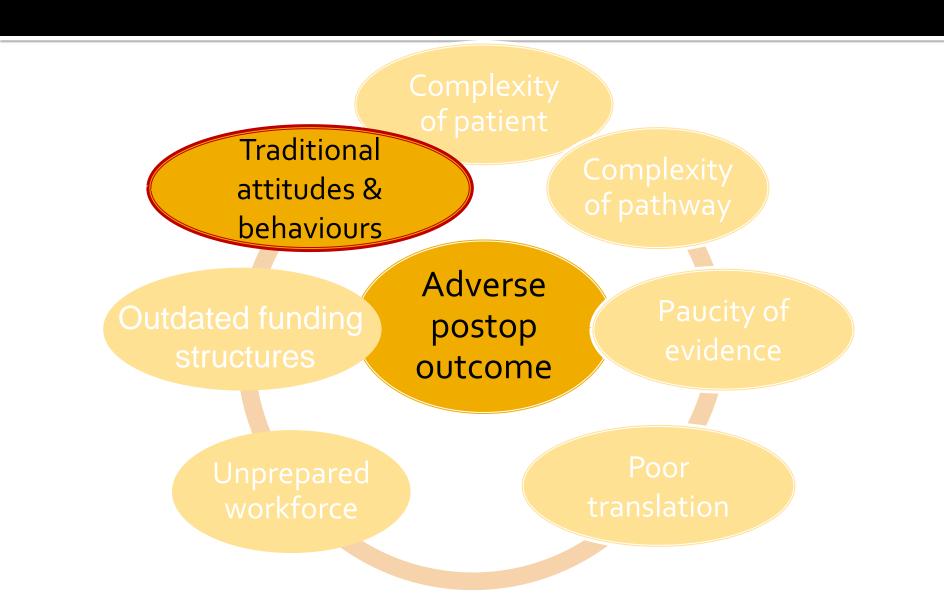
Support early adopters to become regional centres

Build expertise and capacity to support stage 3

Implement systematic scale up/spread/roll out

At the speed at which it is required!!

Factors contributing to poor outcomes



The need for cultural and policy change





CPOC is a partnership between:















SSOC

Guideline for Perioperative Care for People Living with Frailty **Undergoing Elective** and Emergency Surgery

September 2021







Improving outcomes for older people requires a multimodal approach



Resources



- British Geriatrics Society POPS SIG <u>www.bgs.org.uk</u>
- CPOC (@CPOCnews <u>www.cpoc.org.uk</u>)
- POPS eLearning module via BGS
- UCL Perioperative Medicine MSc
- NHS Elect POPS network
- NHFD, NELA
- POPS, CPOC, EBPOM, RCoA conferences

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