How to maximise involvement from a collaborative

Mr Thomas Pinkney

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Question to trainees:

 Are you already actively involved in a trainee collaborative?

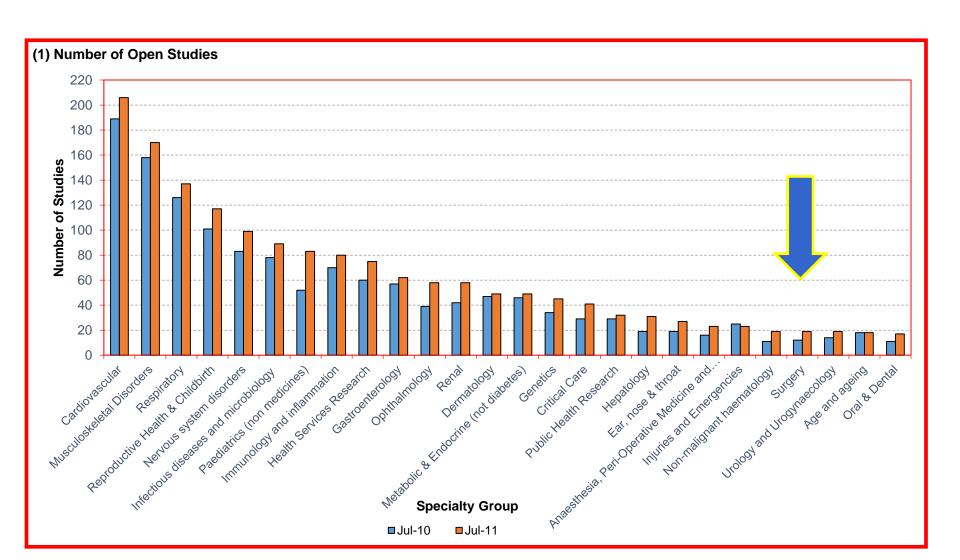
Do you intend to become involved in one?

• If not, why not?

....my job in the next 14 minutes:

- Extol the virtues of collaborative research...
- Personal gains for a trainee
- Demonstrate what can be achieved
- Successful project types
- Successful collaborative behaviours
- Authorship models
- (Carrots and sticks; the future of training in clinical research)

Clinical surgical research



UK implements national programme for surgical trials

A clincial research programme is being developed by the UK's Royal College of Surgeons that puts new surgical devices and techniques through randomised clinical trials. Becky McCall reports.

Together with the UK's National Institute of Health Research (NIHR) and charitable partners, the Royal College of Surgeons (RCS) has initiated a nationwide Surgical Trials Programme with professor Dion Morton, consultant colorectal surgeon at University Hospitals Birmingham NHS Foundation Trust, and director of clinical research at the College. Morton notes that before the new initiative, the situation was incompatible with current surgical needs. "Patients were being let down, because new techniques and devices were not being robustly evaluated."

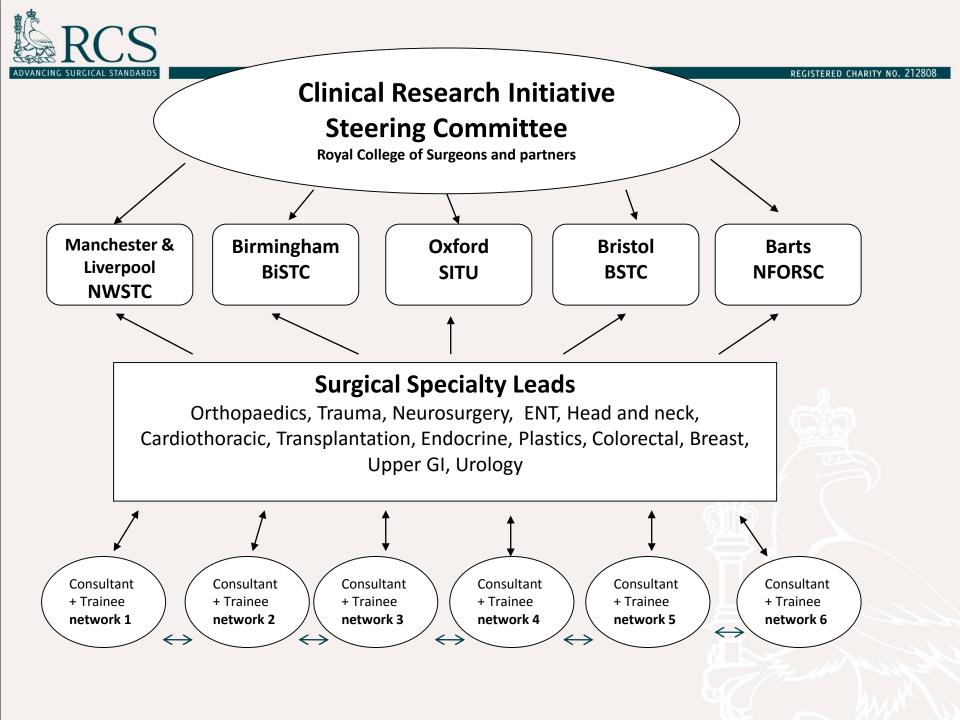
In fact, surgical research funding comprises less than 5% of the UK Government's medical research

First, if the choice lies between a non-invasive medical intervention versus a higher risk surgical procedure, the randomisation decision is more challenging. Second, anyone undertaking an RCT instinctively considers the principle of clinical equipoise, but surgery harbours the additional potential to directly harm a patient. "Not only do we have to inform the patient about a novel option but at the same time remain aware of the alternative", says Morton. "That's a tough choice for the surgeon as well as the patient."

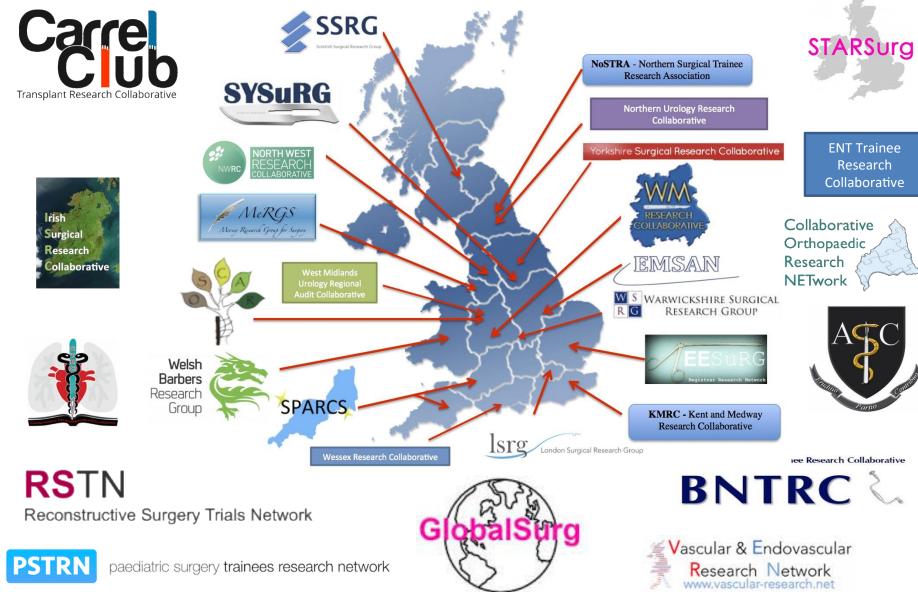
"'Patients were being let down, because new techniques and devices were not being robustly of clinical research networks. In See Series pages 1121 and 1130 the UK, surgical trainee networks were initiated by the West Midlands Research Collaborative, and now there are more than ten diverse networks nationwide.

These networks have greatly expedited recruitment of patients into the trials. For example, the ROSSINI trial recruited 800 patients from 25 UK hospitals, and likewise the DREAMS trial investigating antiemetics in pre-operative care have both recruited well ahead of schedule. "Trainees have the advantage of rotating around hospitals in the region, as well as being at the coalface enabling the engagement of all surgical units", says Morton.

The selection is in Discussion of the in-



Trainee Research Collaboratives

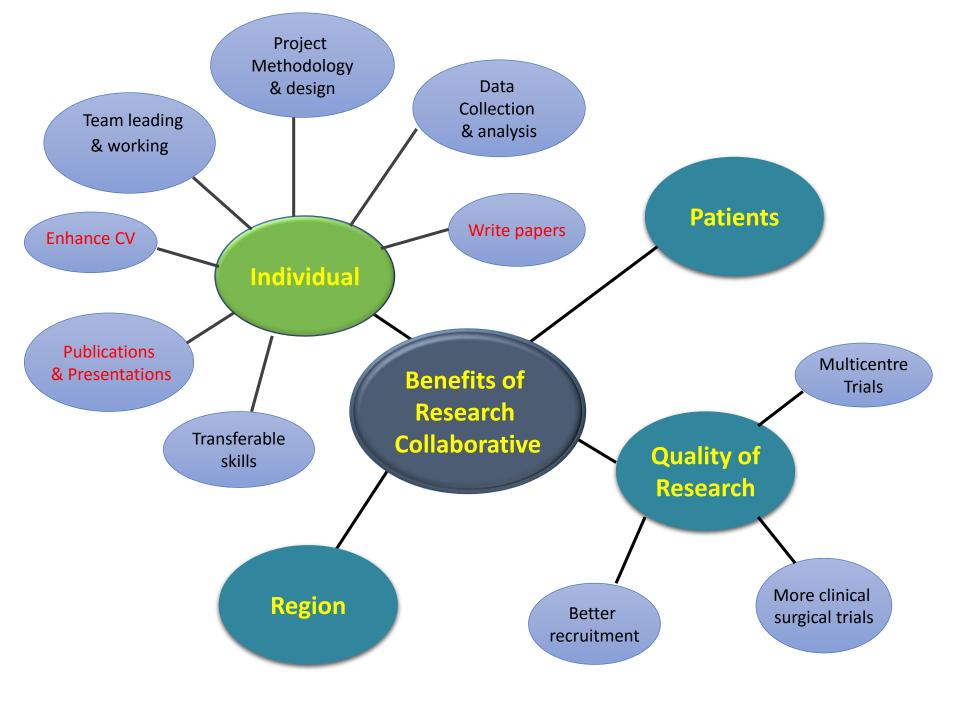




Forming the WMRC

- Difficult to conduct research alone
- Natural network
 - Registrars rotating
 - Potential for multicentre studies
- A multitude of benefits





Types of prospective studies that research collaboratives can do well

1. Very common events – broad-based snapshot audit

Rarely occurring events – collate simultaneously across multiple centres

3. Simple interventional RCTs

Trainee-led RCTs

- Formulating a good clinical question
- Writing the protocol
- Basic stats
- Obtaining ethical approvals
- Writing the grant application
- Interacting with clinicians
- Managing a team, chairing meetings
- Writing and publishing the paper



ROSSINI

Reduction Of Surgical Site Infection using a Novel Intervention

A randomised controlled trial of a wound-edge protection device to reduce surgical site infection

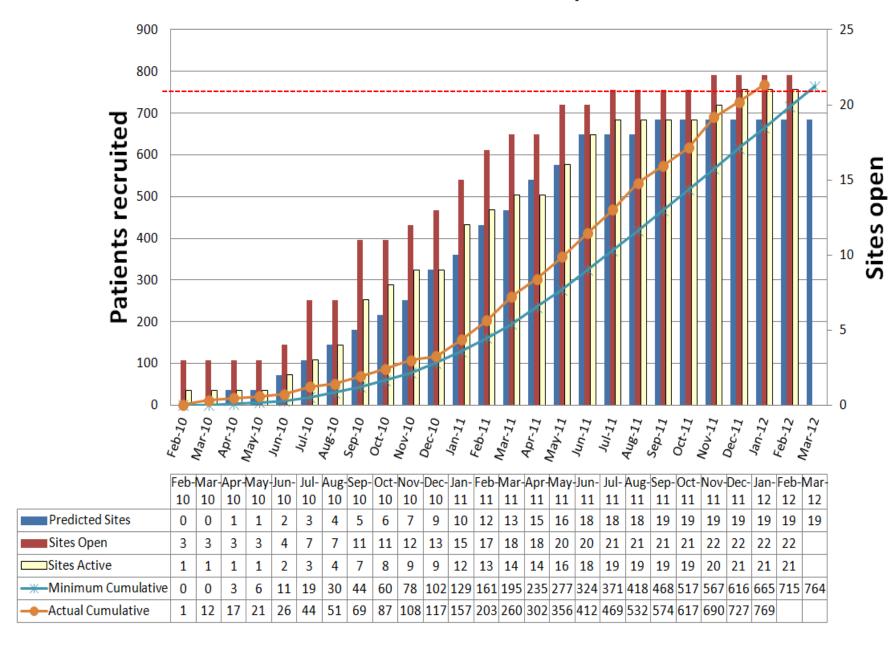








ROSSINI recruitment at 31st January 2012



The ideal ROSSINI site

- Pre-op assessment clinic
 - Discussion of study, PIS

FY1

- Morning of surgery
 - Recruitment + Consent

SpR

- Randomisation
 - Whilst pt in anaesthetic room

SpR/Consultant

- Inpatient wound review
 - Before discharge

SHO/CNS/Research Nurse

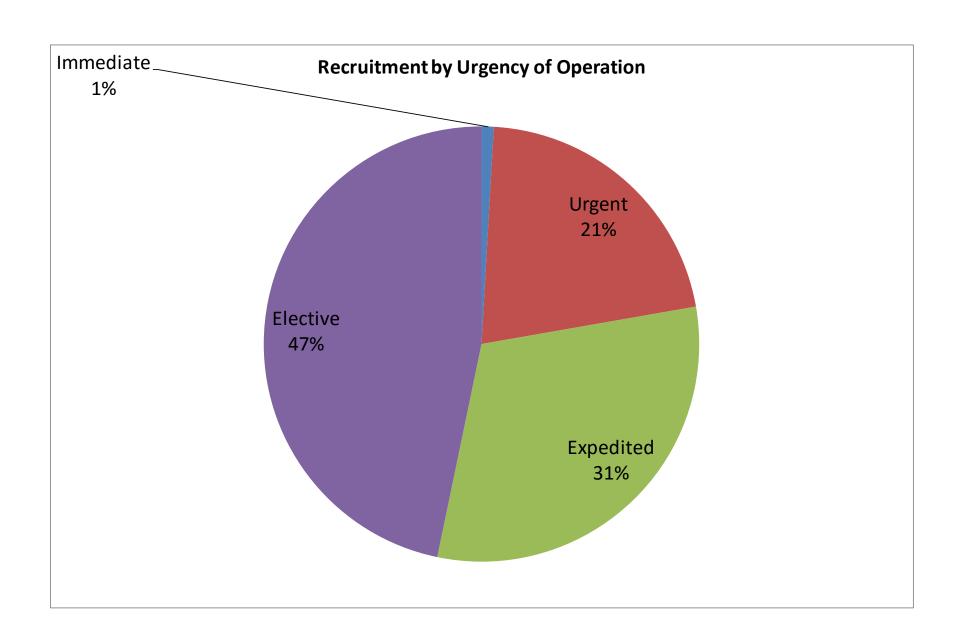
- Outpatient (30 day) wound review
 - Arranged by

FY1/research nurse/clerk

Undertaken by

FY1/SHO/SpR/research nurse





Why ROSSINI recruited well

- Simple
- Very broad inclusion criteria
- High levels of interest in SSI at present
- Participant buy-in: design + running of trial
- Portfolio trial





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RESEARCH

Impact of wound edge protection devices on surgical site infection after laparotomy: multicentre randomised controlled trial (ROSSINI Trial)

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Thomas D Pinkney senior lecturer and consultant colorectal surgeon ¹², Melanie Calvert reader in epidemiology ¹³, David C Bartlett specialist registrar ¹, Adrian Gheorghe doctoral researcher ³, Val Redman trial manager ³, George Dowswell research fellow ¹³, William Hawkins consultant upper gastrointestinal surgeon ¹, Tony Mak assistant professor colorectal surgery ¹, Haney Youssef consultant colorectal surgeon ¹, Caroline Richardson specialist registrar ¹, Steven Hornby specialist registrar ¹, Laura Magill colorectal trial team leader ¹⁴, Richard Haslop trial manager ³, Sue Wilson professor of clinical epidemiology ¹³, Dion Morton professor of surgery ¹²⁴, on behalf of the West Midlands Research Collaborative and the ROSSINI Trial Investigators

BMJ. 2013 Jul 31;347:f4305. doi: 10.1136/bmj.f4305.

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Collaborators (459)

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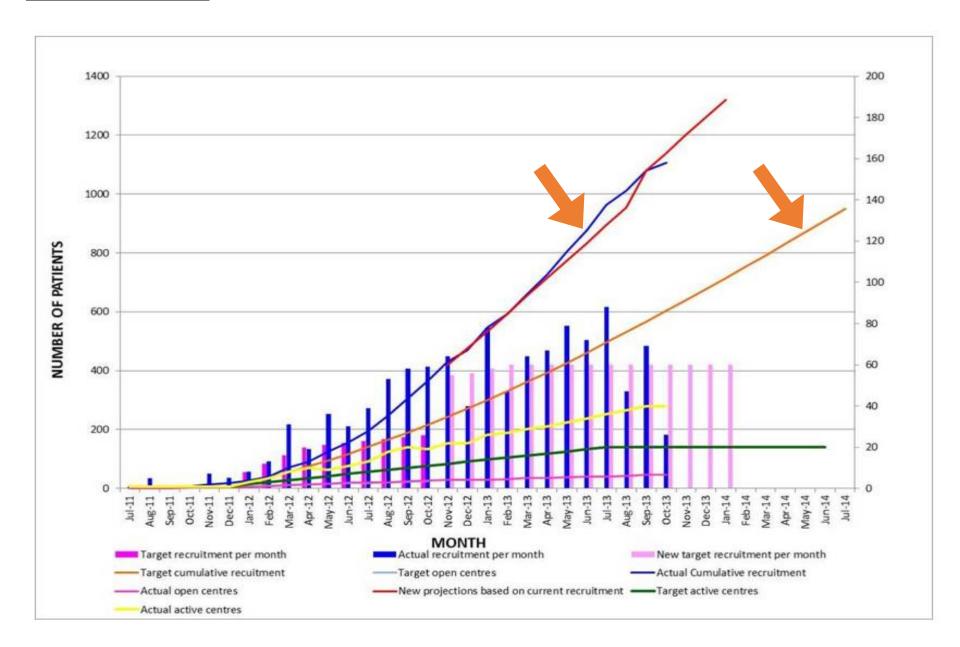
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[Laparoscopic versus open resect

Lessons learned

- Pre-op assessment clinic
- Involve very junior trainees
- No follow-up beyond 30 days if possible
- RCTs:
 - Very simple interventions
 - Consultant equipoise
- Obtain letters of intent from interested parties





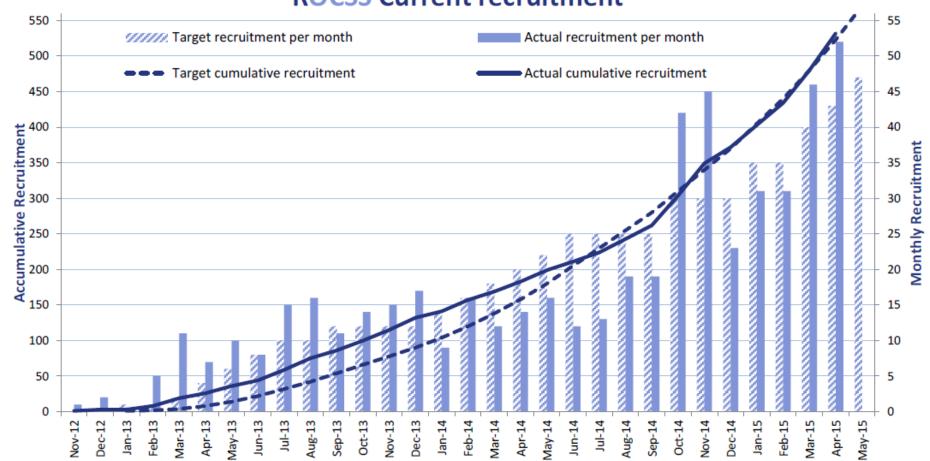


Reinforcement Of Closure of Stoma Site Trial



Recruitment Graph:

ROCSS Current recruitment



Non-Randomised Research

Multicentre prospective cohort studies:

- Why? 'State-of-the-nation'
 - Hypothesis-generating
 - Sample size calculations
 - Background of grant/protocol

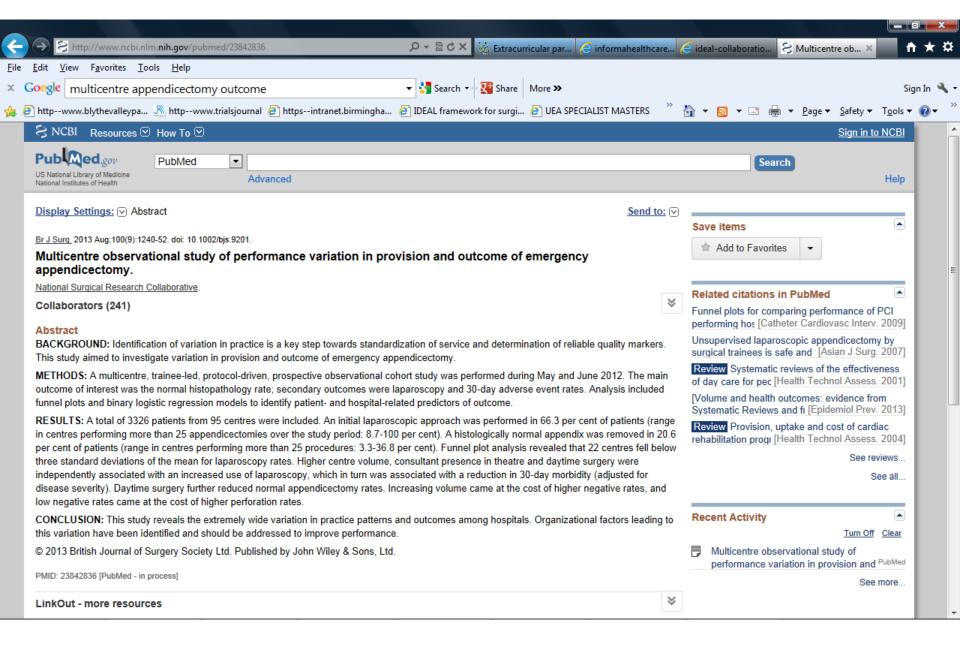


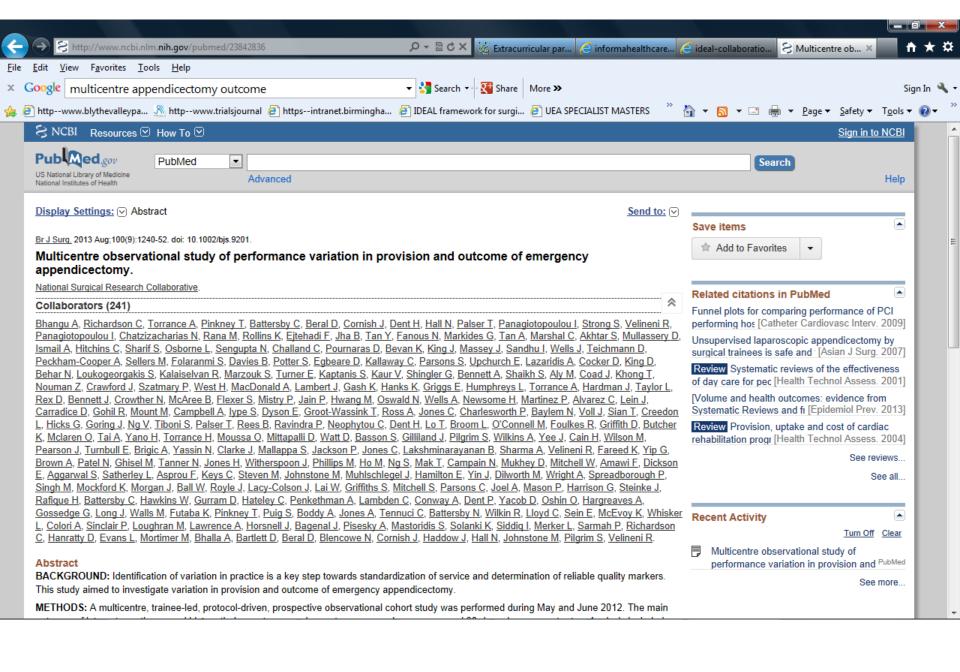
Appendicectomy multicentre prospective snapshot audit

- To bring together all of the general surgical research collaboratives
- O2 months of standardised data collection
- **○95** centres
- **3327 patients**









More progressive authorship models



Feasibility of preoperative chemotherapy for locally advanced, operable colon cancer: the pilot phase of a randomised controlled trial

FOxTROT Collaborative Group*

Diagnostic accuracy of preoperative magnetic resonance imaging in predicting curative resection of rectal cancer: prospective observational study

MERCURY Study Group

Publication of results and Authorship – other collaborative studies

• ROCSS – 5 patients per trainee

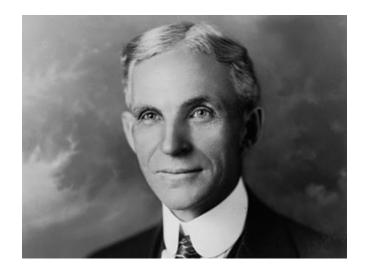
HART – 10 patients and undertake training

Bluebelle phase A − 20 patients

Advice to another research collaborative

- Authorship
- Direction and 'clout' godfather figures
- Committee / management
- Communication
- Types of research you might want to do
 - Consider a snapshot audit easy, quick and forms the group
 - 2. Simple RCTs are definitely possible

Henry Ford 1863 – 1947



"Nothing is hard if you divide it into small jobs"

The future of training in clinical surgical research

• RCS: "All surgical specialists in the future should be active in clinical research"

- Formalised
- Part of consultant job plans
- Revalidation

Training is therefore needed

The future of training in clinical surgical research





The future of training in clinical surgical research

- Yr 1 Complete GCP, develop awareness of trials in their dept
- Yr 2 Recruit patients to allerst RCT
- Yr 3 Mentorship with a local Pl and gain experience of processes
- Yr 4 One day course in clinical trials methodology and practise