



Establishment of a trainee led multi-centre anaesthetic research and audit network

South West Anaesthetic Research Matrix

'.....to conduct high quality, trainee lead, multi-centred research and audit across the peninsular deanery for the benefit of patients and their future care.....'

Introduction

A significant number of anaesthetic trainees in the Peninsular region admit their exposure to research is limited and they have little ability and confidence in practicing evidence based medicine (1).

Aims

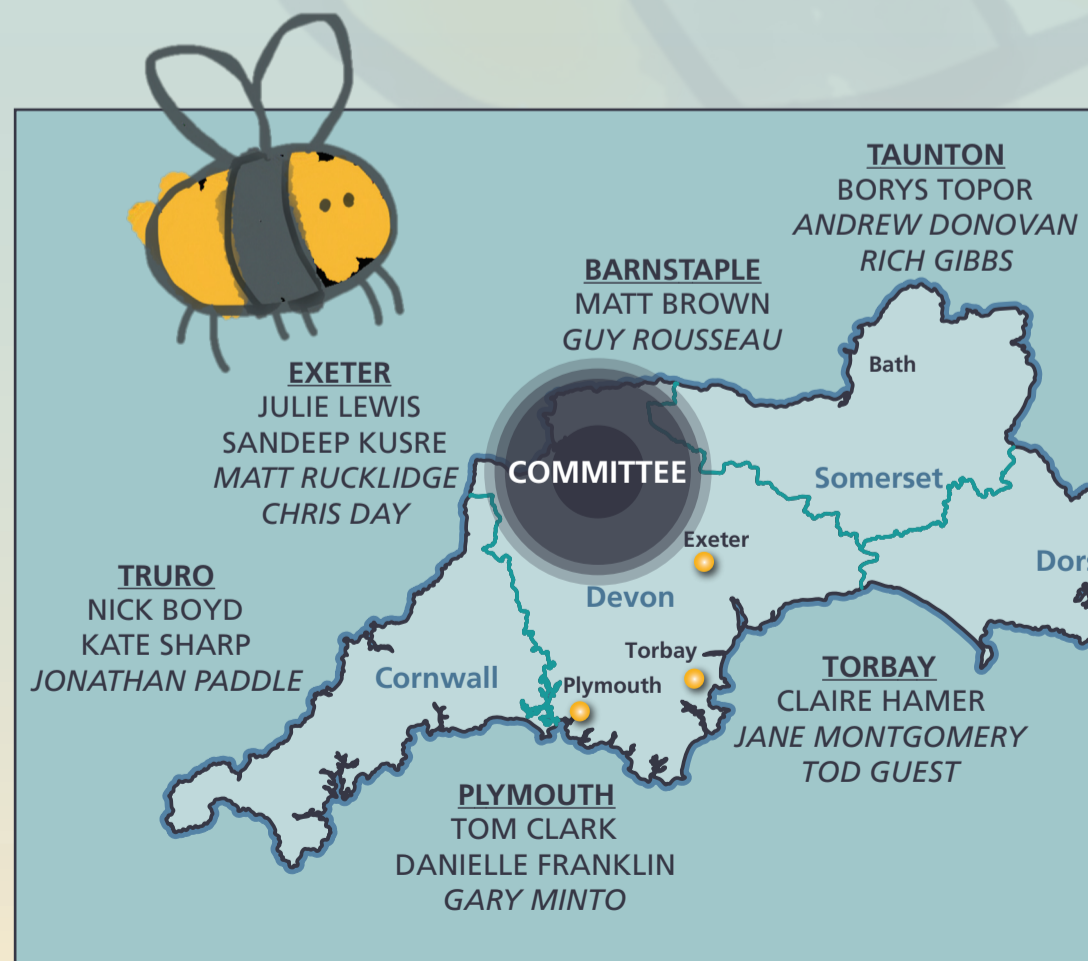
To conduct a multicentred, trainee-led, prospective "snap" audit to engineer and provide "proof of concept" for a new trainee research and audit collaboration.

SWARM Audit Project 1

1. Percentage of patients undergoing emergency surgery who are at risk of post-operative pulmonary complications using the ARISCAT score (2)
2. Timing of emergencies on the 24-hour clock (3)

Methods

- * 1 day **pilot** audit
- * 2 week **snap** audit
- * Included all 6 centres of the SWARM network
- * All patients undergoing surgery in the emergency 'NCEPOD' theatre



Results

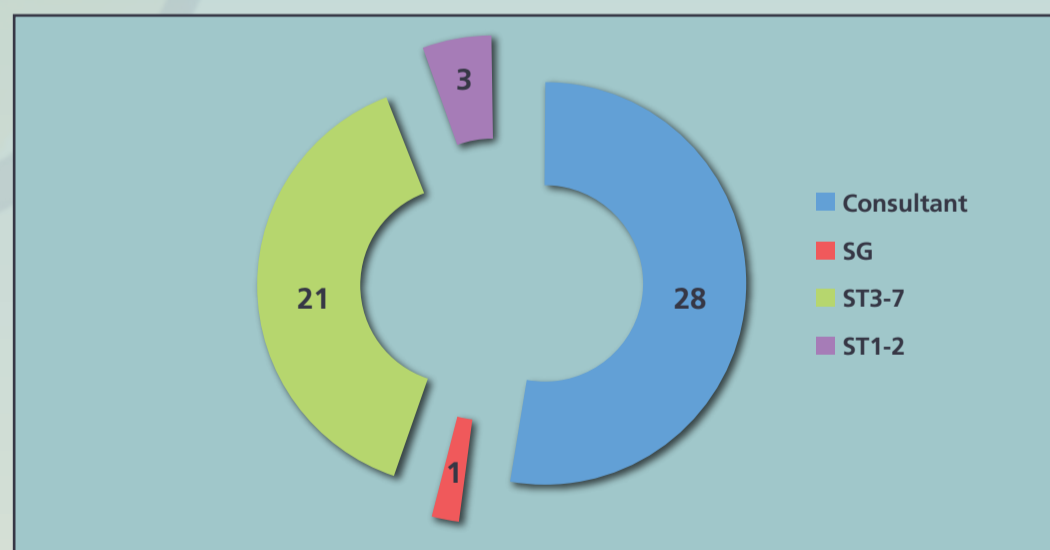
CENTRE RECRUITMENT

Centre	Recruitment no.	Recruitment %
Torbay	105 / 105	100
Exeter	94 / 107	88
Plymouth	104 / 119	87
Truro	56 / 73	77
Barnstaple	33 / 44	75
Taunton	45 / 65	69
Total	437 / 513	85

TIMING OF SURGERY ON 24 HR CLOCK

Timing	n (%)	National target %
08:00-18:00	260 (59)	60
18:00-24:00	139 (32)	NA
00:00-08:00	38 (9)	5

ANAESTHETIC GRADE FOR IMMEDIATE SURGERY STARTED AFTER 00:00



Conclusions

SWARM-AP 1 had an **impressive** recruitment rate

SWARM is a **viable model** for multi-centred trainee-led audit and research

We are close to national guidelines on our 'Timings of surgery on 24hr clock'

A significant number of operations started after midnight were anaesthetised by non-consultant grades

References:

- (1) SWARM Survey Project 1, unpublished
- (2) Canet et al, Anaesthesiology 2010;113:1338-50
- (3) RCoA Raising the Standards Compendium of Audit Recipes Section 4.2