



Why did we come about? **CHAOTIC TEAM BEHAVIOUR ATTENDANCE NO IDENTIFIED** SPECIFIC ROLES OF EXTRANEOUS **PRACTITIONER TEAM LEADER** NOT ALLOCATED **PERSONNEL ANXIETY**



Formation of a Resuscitation Team (Margarita, Meredith, 4 nurse educators)

- Improve team working skills for whole multidisciplinary team
- Improve confidence and performance
- Reduce anxiety
- Improving performance in real life emergencies



Phase 1 – just do it

2008

- 1. Developed vision
- 2. Created guiding team

Interprofessional

Own roles

Non-threatening

Improve patient safety

In-situ





Space

 Anywhere we could find on the day

 Equipment (basic) stored in our offices



Planned Set Up

- Created scenarios from actual events
- Twice monthly
- All nursing + medical staff
- MULTIDISCIPLINARY
- PICU/ Ward environment





What did we do?

- NOT fully informed
- Basic equipment
- Real time scenario
 - Real drugs (not morphine)
 - Real syringes
 - Real arrest call
 - Real roles
- Debriefing (talking through)







Phase 2 – give up 2009

Very exhausted small resuscitation team...

Identified that we needed

- 1. Recognition **Buy-in and communication (3,4)**
- 2. Dedicated faculty
- 3. More resources for realism



Getting Support – Senior Management

- Presented case to medical director
- Presented case to medical board
- Presented to head of nursing (above senior nursing staff) for support



branding....



Simulated interPRofessional Team Training

Excellence in patient care through safety



Getting Support - Marketing

- Main foyer display
- Presentation at Departmental Clinical Governance Day
- Notices and emails of system changes introduced by SPRinT
- Liaison with Hospital PR
 - Intranet screen displays of SPRinT
 - Publication in hospital monthly newsletter



Expansion of Faculty

- Dedicated 2 days per week nurse educator (band 6)
- Dedicated 1 day a week technician
- 2 Anaesthetic colleagues interested
- PICU Registrar input (2 volunteers)



Development of equipment/ resources

- Laerdal SIM Baby applied for charity funding
- Audiovisual equipment London deanery
- Dedicated cubicle on PICU
- More scenarios 20
- Two way evaluation process for quality improvement



Phase 3

2010

- Keep momentum going for SPRinT team members (faculty development) Short term wins (6)
- 2. Dedicated time for **participants**Empowered broad action (5)



SPRinT Development - Education

- Training the trainer courses
 - London deanery
- Consolidation of learning
 - psychological input into adult learning and debriefing – Harvard simulation course 1
- Active critique of faculty performance
 - as part of ongoing process to improve team training techniques and learning





Dedicated Time for Participants

Dedicated time for

- 2 nurses
- 1 Anaesthetic trainee (Anaesthetic college tutor recruited to SPRinT team)
- 1 PICU fellow
- 1 PICU SHO



Problems.....all this effort and - Success? - NO!

Reluctant learners!!

No charge nurses turning up AT ALL

Participants getting upset not convinced of lessons learned





Phase 4 – aim for success again...

2011

- Introduce safety and CRM training before course (Harvard sim 2)
- Make it sustainable, expand to other areas (innovation matched to needs assessments) <u>never let up (7)</u>



How do people learn?



- Participants should feel safe beforehand (adult learning techniques) X
- It needs to be realistic for engagement of senior professionals X
- Faculty need to be trained in debriefing and (Debriefing is where the learning is at) √



Safe Environment & CRM training: 30 mins

 Game play to demonstrate principles of Crisis Resource Management and

to create a safe environment

- Introduction to mannequin and surroundings
- Non judgemental and collegial environment

Then simulation 15 mins \rightarrow



Innovative models

- Emergency resternotomy simulations
 - Open-chest Harley baby for paediatric cardiac patients
 - Open chest adult model for adult congenital heart disease
- Recognition of ECMO failure
 - –Open-chest ECMO model





Open-chest ECMO model

Simulating tamponade and increased venous pressures

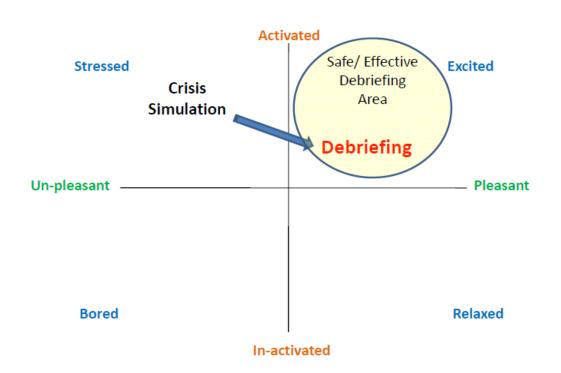
 i. Paediatric Open-Chest ECMO Model For Simulated Team Training I. Atamanyuk, O. Ghez , J. Hall, L. Menadue, T. Jackson, N. Pool, R. Lytton, M. Lane, M. Burmester. 4th International Paediatric Simulation Symposia and Workshops, Toulouse Oct 2011 (abstract -oral presentation)





Video Assisted Debriefing – 40 mins

Circumplex Model of Emotion- Russell and Feldman Barrett, 1999



Learning occurs from reflecting on one's own experience



2012 - Success!

Sustained programme with 3 courses per month

BUT.....

- 1. SPRinT Project manager suddenly had to leave country
- 2. SPRinT Director seconded to direct PICU
- 3. Other *SPRinT* Director took up post in Melbourne



2013

- Recruited PICU nurse project coordinator
- Requests to deliver SPRinT courses to other directorates after SUIs, to practice drills
 - Cardiac catheter
 - Transfusion labs
- Charge nurses attending courses





2014

- Part of culture in paediatric directorate incorporated change into culture (8)
- PICU consultants attending courses
- SPRinT directors get time recognised!!!
- SPRinT courses run in other hospitals

2015-17

- Expansion into other directorates
- Setting of ASPiH standards for in-situ simulation
- Beginning to be part of culture in trust



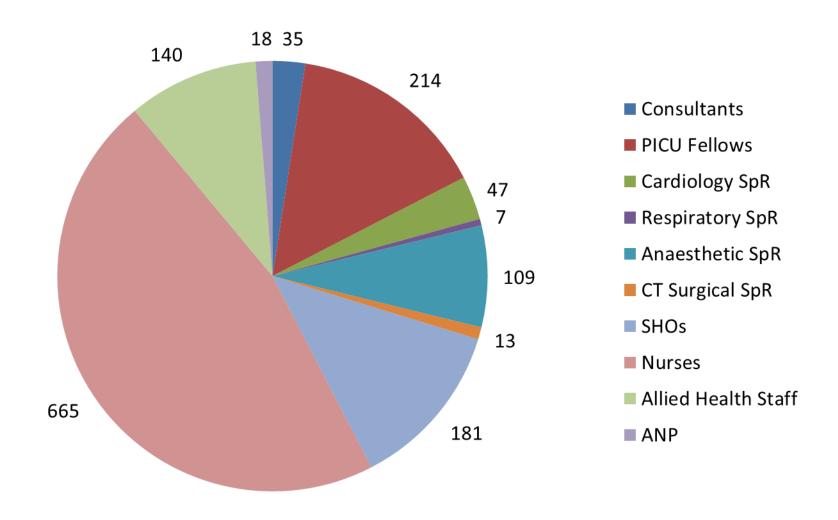
2017-9

- Fellow left post half way though contract
- Project manager recruited to HEE
- New project manager on sick leave
- Temporary halt of programme!!

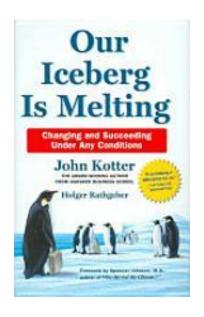
- In- situ teamwork scenarios is hard work and cannot run effectively without dedicated, educated staff
- Better to run skills workshops in gaps



Feb 2008-Jan 2019 (n=2129)



Harvard Business School Professor John Kotter



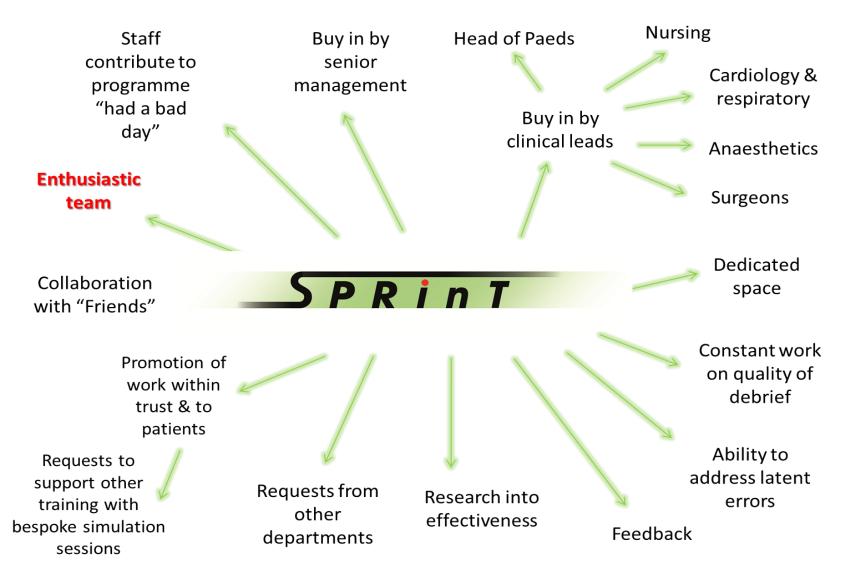
Kotter's 8 step Process for leading change



Achievements 2008-2019

<i>1</i> .	Buy in (created sense of urgency)	3
<i>2</i> .	Created guiding team	2
<i>3</i> .	Developed vision	1
4.	Communicated vision	4
5.	Empowered broad action	6
6.	Short term wins	5
7.	Never let up	7
8.	Incorporated change into culture with	
	actual adult learning and change in	
	behaviour	8





Thank you for listening





Margarita Burmester Founder & Director SPRinT PICU Consultant
Mary Lane Director SPRinT, Consultant Paediatric /Cardiac
Anaesthesia
Sian Jaggar Consultant in Paediatric & Cardiac Anaesthesia

Sian Jaggar Consultant in Paediatric & Cardiac Anaesthesia Ajay Desai *SPRinT* PICU Consultant Orsi Freidrich SPRinT Paediatric Cardiothoracic Fellow
Neil West SPRinT Nurse Educator, Rose Ward Practice Educator
Judy Cotterill Lead for Mobile SPRinT, Post Anaesthetic Care Manager
James Wood SPRinT Senior Technician, PICU technician
Olivier Ghez SPRinT Paediatric Cardiothoracic Consultant