The Future of Acute Medicine Mark Holland











On the Agenda

Contracts Workforce Pensions

Older People Patients

Loss of team structure



Technology

Jeremy Hunt?



Out-of-Hours

7 Day Working





Case

- Monday 1st August 1988
- PRHO in Crawley
- On-call

- No Induction

76-year old woman

– Abdominal pain

- Transferred by me to Redhill Hospital
- THAT WAS WRONG!





Case

• WRONG

- -Care
- -System
- -Processes
- -Culture
- -Attitude





Eternal Winter 2014 – 2017+

- Care
- System
- Processes
- Culture
- Attitude





Landmarks

- Early 1990s
- 1999
- 2004
- 2007
- 2009
- 2012
- 2016





Acute Medicine is defined as that 'part of general internal medicine (GIM) concerned with the immediate and early specialist management of adult patients suffering from a wide range of medical conditions who present to, or from within, hospitals, requiring urgent or emergency care' [1].

Acute Medicine differs from other medical specialties as it is not based around a body system, disease or patient characteristic, such as age.

A rich description of the specialty can be found in the Royal College of Physicians of London web resource Medical Care [2].

 Royal College of Physicians. Acute medical care. The right person, in the right setting – first time. Report of the Acute Medicine Task Force. London: RCP, 2007. Available at http://shop.rcplondon.ac.uk/products/acutemedical-care-the-right-person-in-the-right-setting-firsttime?variant=6297968773
 Royal College of Physicians. Medical Care. London RCP, 2016. Available at http://www.rcpmedicalcare.org.uk/designing-services/specialties/acute-internal-medicine



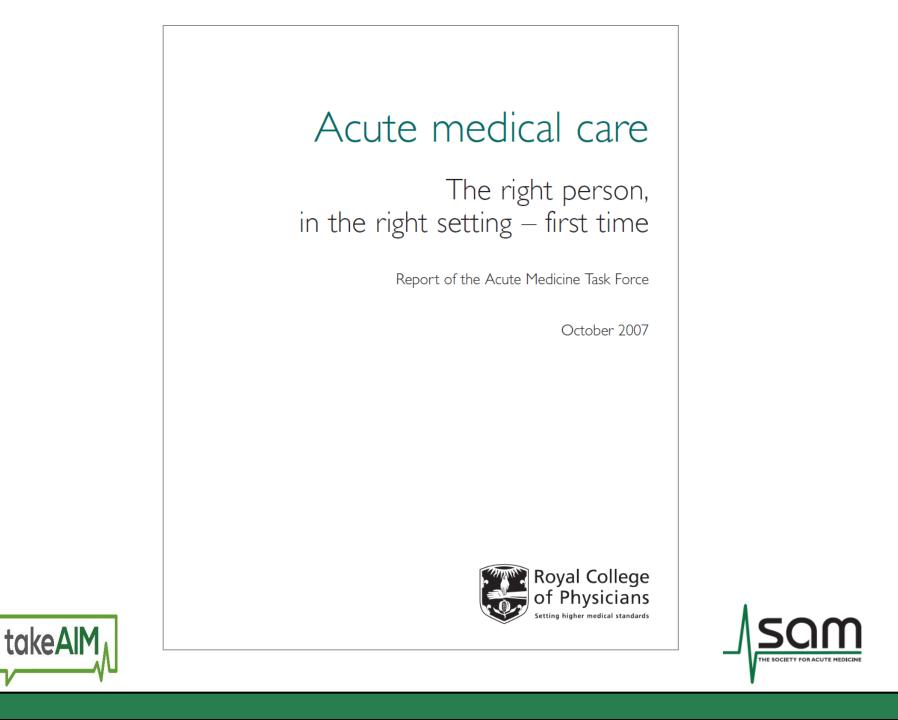


Acute Medical Unit core values and ideology

- Competent clinician
- Senior clinician early in the admission
- Acute medical unit (AMU)
- Multiprofessional teams
- Training and Education
- Research
- Audit







Future





What Works?





Acute Medical Unit

- Bernard Silke et al:
 - Mortality
 - LoS
 - Readmissions





Acute Medical Unit variation

- Model
 - Acuity of bed provision
- Implementation
 - <u>Ambulatory care</u>
 - Short stay
- Scope
 - Closed or open
 - Frailty





SAMBA 2016 – heterogeneity

Of the 103 AMUs submitting data describing their unit and service:

- 35 have frailty units of which 10/35 are co-located within the AMU
- 16 units reported a separate take run by Geriatricians
- The selection of patients for a separate take for older people was needs-related in 7 units and age related in 9 units (range 65 to 80 years)
- 8 AMUs were co-located with Acute Surgical Units (ASUs)
- Only one unit had both a frailty unit and ASU co-located with AMU
- Ambulatory emergency care (AEC) units were in 79 hospitals
- 45 AEC units were separate from the AMU
- AEC units had a median of 8 trolleys (interquartile range 4 to 12) and 3 clinic rooms.





NICE

Emergency and acute medical care in over 16s: service delivery and organisation

			1
<u>1 - Introduction</u>	11 - Social care extended access	21 - Standardised criteria for hospital admission	31 - Enhanced inpatient access to physiotherapy and occupational therapy
2 - Non-emergency telephone access and call handlers	12 - Alternatives to hospital care	22 - 7-day diagnostic radiology	32 - Structured patient handovers
<u>3 - Paramedics with enhanced</u> competencies	13 - Community rehabilitation	23 - Liaison psychiatry	33 - Integrated patient information systems
4 - Paramedic remote support	14 - Community palliative care	24 - Assessment through acute medical units	34 - Standardised systems of care for intra- and inter-hospital transfers
5 - GP extended hours	15 - Advance care planning	25 - Admission through elderly care assessment units	35 - Discharge planning
<u>6 - GP-led home visits</u>	16 - Emergency department opening hours	26 - Frequency of consultant review	36 - Standardised discharge criteria
7 - GP access to laboratory Investigations	17 - GPs within or on the same site as emergency departments	27 - Critical care outreach teams	37 - Post-discharge early follow-up clinics
8 - GP access to radiology	18 - Minor injury unit, urgent care centre or walk-in centre	28 - Structured ward rounds	38 - Integrated care
9 - Community nursing	19 - Early versus late consultant review	29 - Multidisciplinary team meetings	39 - Bed occupancy
10 - Community-based pharmacists	20 - Physician extenders	30 - Pharmacist support	40 - Escalation measures





The Bigger Picture

- STP
 - Sustainability and Transformation Plans
 - Funding gap
 - Reduction in A&E attendance
 - Laudable, yes Realistic?
- GIRFT Get it Right First Time
 - Double edged sword of standards
- NHSI
- NICE
- Smaller Hospitals





Acute Medical Units

- Standards
- UK

West Midlands and SAM
London
Keough
Carter





SAMBA 16

Time zero was taken as the time of admission to hospital (via the Emergency Department (ED), AMU, or other ports of entry) for Clinical Quality Indicators 1 and 2:

- Clinical Quality Indicator 1
 - Defined compliance as early warning score within 30 minutes of arrival in hospital
- Clinical Quality Indicator 2
 - The time to a competent medical decision maker was measured from the time of admission to the time of the first medical contact in the ED or AMU by either a doctor based in the ED or a doctor from the medical on-call team
- Clinical Quality Indicator 3
 - The time for consultant review was calculated from the time of referral from ED or from the time of admission to AMU for direct admissions.





SAMBA 2016 – CQI scores

Table 3 Attainment of Clinical Quality Indicators 1, 2 and 3

Clinical Quality Indicator 1

• All patients admitted to the AMU should have an early warning score (EWS) measured upon arrival on the AMU

2461 (59%) of patients had their first EWS within 30 minutes of hospital arrival

Clinical Quality Indicator 2

• All patients should be seen by a competent clinical decision maker within four hours of arrival on the AMU

2695 (65%) of patients received this standard

Clinical Quality Indicator 3

• All patients should be reviewed by the admitting consultant physician or an appropriate specialty consultant physician within 14 hours of arrival on the AMU (8 hours if arrival was between 08:00 and 18:00)

2799 (68%) of patients had this review

Composite end-point for Quality Indicators 1,2 and 3

1249 (30%) of patients met all three of the above SAM quality standards





Things can only get better

	2014	2015	2016 complete	2016 incomplete
Clinical Quality Indicator 1	84	73	69	59
Clinical Quality Indicator 2	81	87	69	65
Clinical Quality Indicator 3	72	78	81	68
Clinical Quality Indicator 1,2 & 3	56	52	41	30



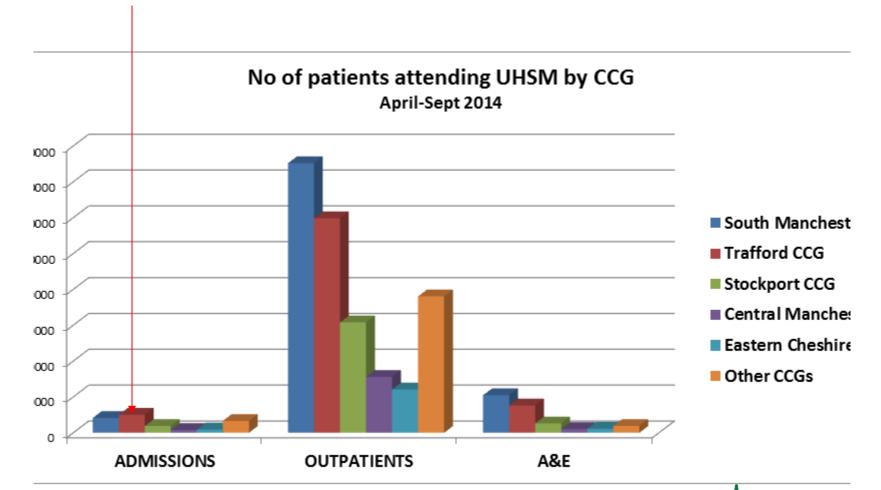


Medicine is Changing





UHSM – Activity by CCG

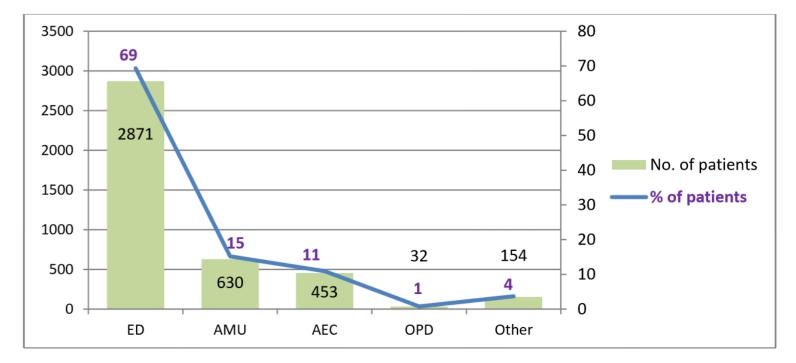






SAMBA 2016 – route of admission



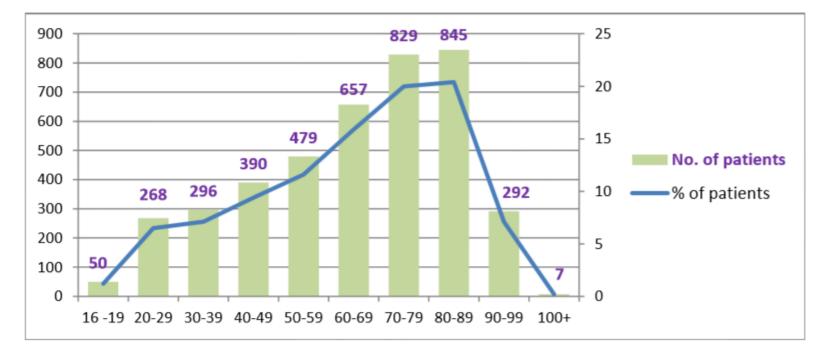






SAMBA 2016 – age

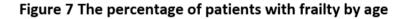
Figure 4 Age distribution of 4140 patients

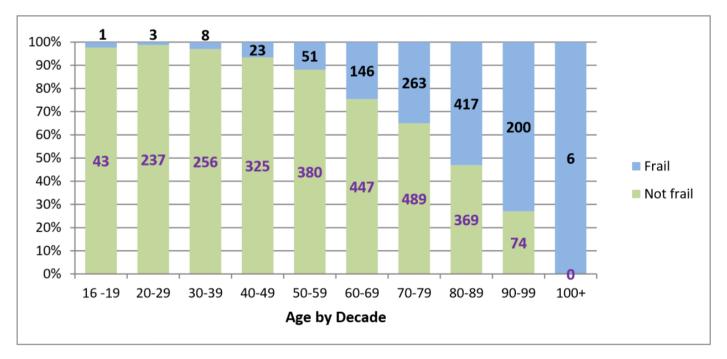






SAMBA 2016 – frailty



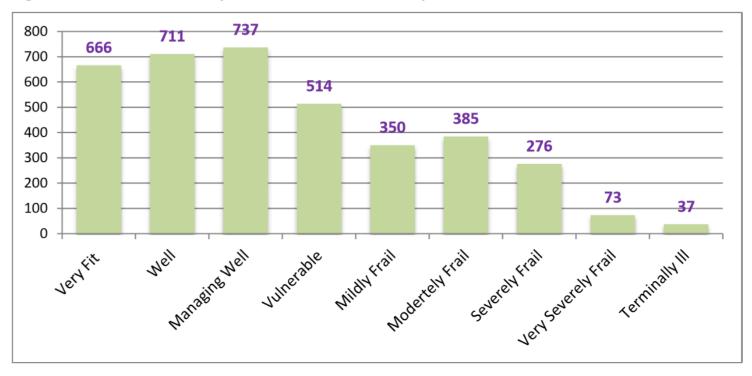






SAMBA 2016 – frailty

Figure 8 Distribution of frailty based on the Clinical Frailty Scale







NHS

IS A RARE BUT SERIOUS COMPLECATION OF AN INFECTION

If your child has any of these symptoms you should take immediate action:

- Looks mottled, bluish or pale
- Is very lethargic or difficult to wake
- Feels abnormally cold to touch
- Is breathing very fast
- Has a rash that does not fade when you press it
- Has a fit or convulsion

Acting quickly could save your child's life. If your child has any of these symptoms, don't be afraid to go to A&E immediately or call 999.

For more information visit **nhs.uk/sepsis** or **sepsistrust.org**



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Workforce

- 2.8 doctors / 1000 population
- 1500 new medical students per year
 - 2.83 doctors / 1000 population

More doctors is not a solution





More Cash?

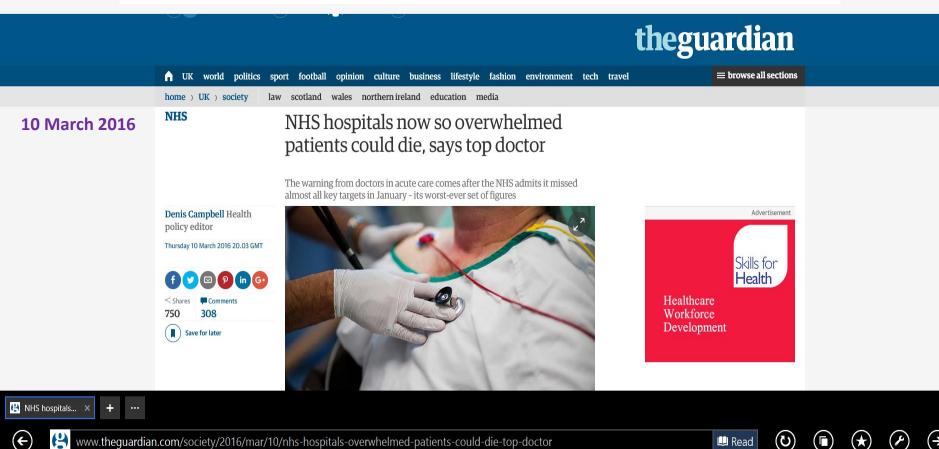
• Spend every penny on social care



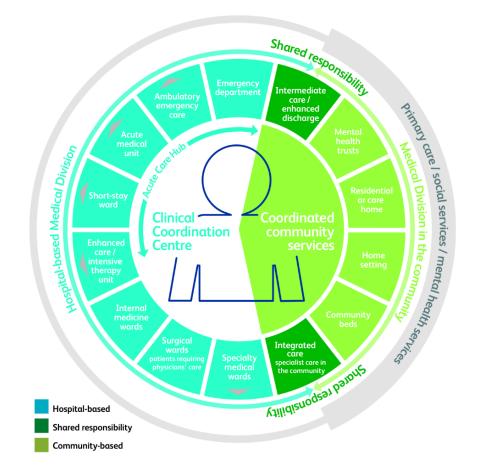


The Department of Health dismissed Holland's fears about possible patient deaths, accused him of exaggerating the problems in the NHS and stressed that hospitals are facing an unprecedented and growing demand for care.

"This is patent nonsense, and does a disservice to our hospitals and staff coping well under huge pressure. Seeing 111,000 more people in A&E in under four hours last month, treating more patients for cancer than ever before and slashing the number of people who have to wait more than a year for treatment," said a spokesman.



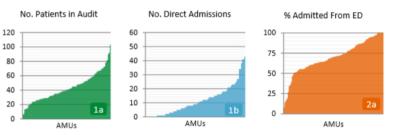
Future Hospital

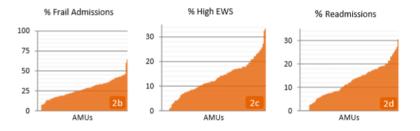






SAMBA 2016 – unit report







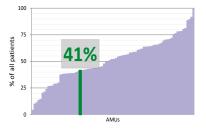


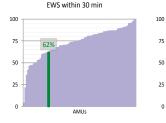


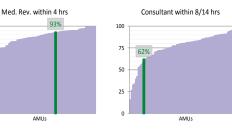
SAMBA 2016 – unit report



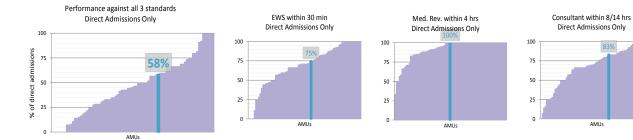
Performance against all 3 standards





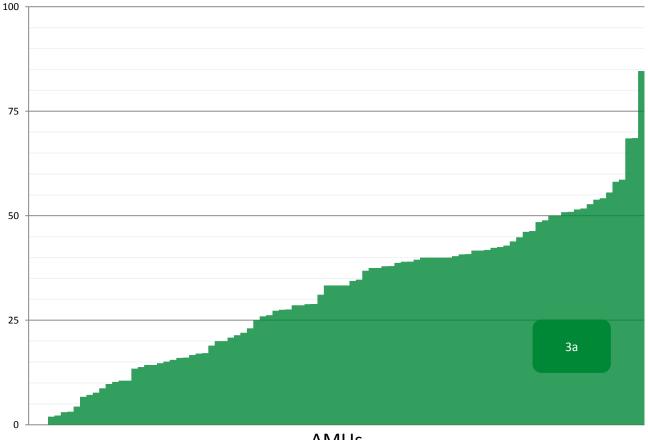


These charts show this AMU's performance compared to the other AMUs that participated in SAMBA 15.







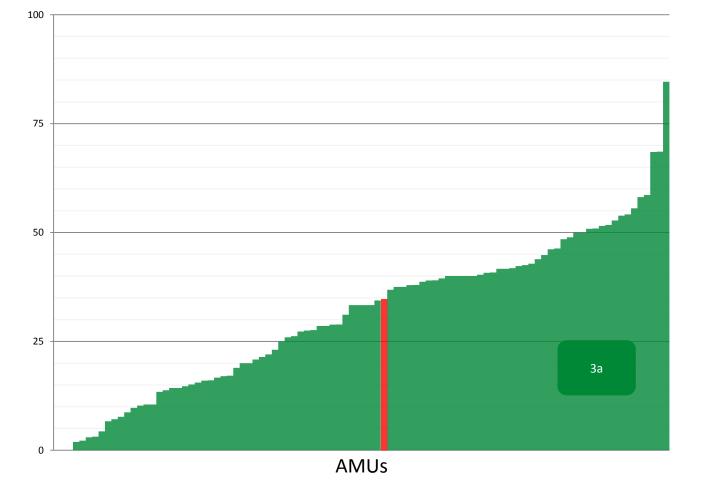




AMUs

SAMBA2016 Participating Units





Performance Against All 3 CQIs

SAMBA2016 Participating Units



Generalism





Who

- Young adults and teenagers
- Mental health
- Older people
- Specialties
 - Neurology
 - Renal
- Genaralism
 - Sepsis





I Get Confused.....

- We used to have
 - Infections
 - Dehydration
- Now
 - Sepsis
 - Acute kidney injury





I Get Confused.....

"Older patients [admitted to AMU] have cefuroxime and saline deficiency"

Anonymous 2005





ESIC Sepsis and Internal Medicine M A baseline audit of acute medical patients

S Clark[†], A Fairburn[†], M Dyson[†], H Maddock[†] and M Holland^{††}

*Department of Critical Care / **Medical Assessment Unit Wythenshawe Hospital, South Manchester University Hospitals NHS Trust

Audit Objectives

- Quantify the prevalence of infection on the Medical Assessment Unit (MAU)
- Quantify the prevalence of sepsis on the MAU
- Compare the management of septic patients against the Severe Sepsis 6-hour resuscitation bundle¹

Introduction

Mortality from sepsis is preventable.² Our perception was that many patients presenting to our MAU have an acute intective litness, however, prior to this audit we were unaware of the prevalence of intection or sepsis.

Method

Wythenshawe Hospital is a large teaching hospital with 655 beds. The MAU has 25 beds for the assessment and initial management of all newly admitted acute medical patients.

In March 2005, eleven weekday cohorts of MAU patients were audited using a specifically designed and poloed audit tool. Tangets outlined in the Severe Sepaix 5-hour resultabilith burdle were the benchmark for good practice.

Patients were said to have acute infection if one or more of the following oriterts were present;

 Documented admission diagnosis of intection

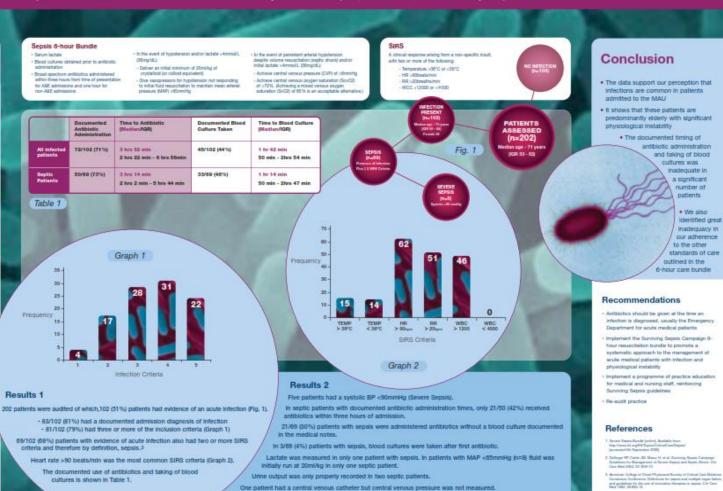
+ WCC >12000 or <4000

* Raised CRP

Pever >38°C or Hypothermia <36 °C
 Antibiotics prescribed on or since admission

The notes were acruitezed for evidence of antibiotic administration and the taking of blood cultures with relevant timings.

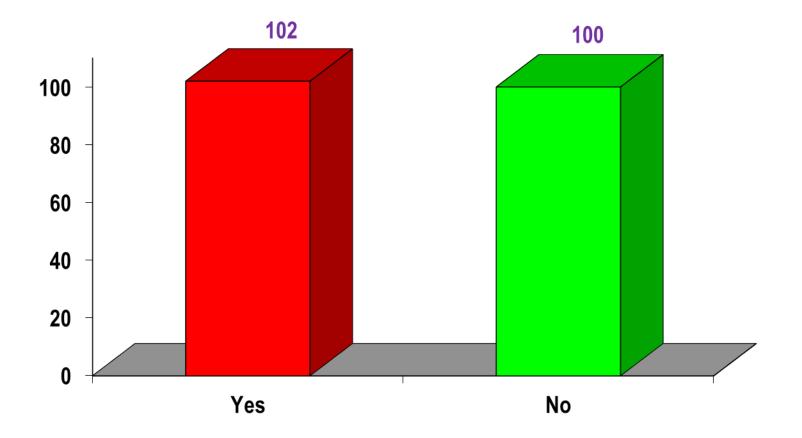
The systemic inflammatory response syndrome (SIRS) oriters and blood pressure were markers of physiological status.³



SovO₂ was not recorded at any point.

Antonialadgements Dr. Pater Attonnial

Prevalence of Infection n=202



An audit into the use of antibiotics on the acute medical unit, are they used effectively?

Jack Crispin Year 4 Medical Student

412 patients203 on antibiotics





Case 54 year old male

- Weight loss
- Clubbed
- More recently fever
- Massive CK
 - Troponin I raised
- ECG
 - Widespread ST changes
- CT TAP
 - NAD





Case 54 year old male

- Blood cultures
 - <u>Strep. Spp</u>
- ECHO
 - No AV valve
- No murmur
- Did have empirical antibiotics





Case 41 year old female

- Sudden severe back pain
- CRP 150
- MR spine
 NAD
- Need urinary catheter
- CT abdo and pelvis
 - Non-specific stranding in RIF





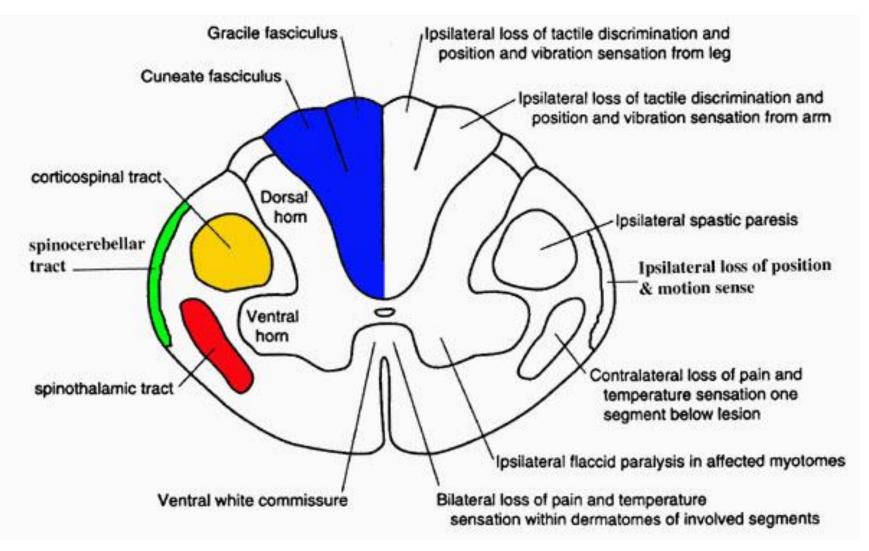
Case 41 year old female

- MR pelvis
 - Iliacus infection
- NEWS 0-1
- CRP 400
- CK normal
- No fever





Case 30 year old female



Closing Statements





 Multiprofessional workforce Prioritise work -Patient demand Value training More beds - Patient demand New paradigm - Hospitalists • T

-Blackpool

Double Bind

- A Zen master says to his pupils
 - "If you say this stick is real, I will beat you. If you say this stick is not real, I will beat you. If you say nothing, I will beat you."
 - One pupil walked up to the teacher, grabbed the stick, and broke it.

Online. Psychology Today. Marilyn Wedge. Suffer the Children The Double Binds of Everyday Life https://www.psychologytoday.com/blog/suffer-the-children/201110/the-double-binds-everyday-life





Past and Future

- The National Health service and the Welfare State have come to be used as interchangeable terms, and in the mouths of some people as terms of reproach.
- Why this is so it is not difficult to understand, if you view everything from the angle of a strictly individualistic competitive society.
- A free health service is pure Socialism and as such it is opposed to the hedonism of capitalist society.
 Aneurin Bevan





Brands

- SAMBA
- TakeAIM
- FAMUS
- Acute Medicine Awareness Day
- SAM-berising
- SAMily





The International Convention Centre (ICC), Birmingham **11 - 12 September 2017**

sambirmingham



