WHO SHOULD BE CAPTAIN OF THE SHIP IN POLYTRAUMA SETTING

- MUST BE A SURGEON
- MUST BE AN ORTHOPAEDIC SURGEON

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DEPARTMENT OF ORTHOPAEDICS
NO
ORTHOPAEDIA

As to the Title, I have formed it of two Greek words, viz. ORTHOS, which signifies straight, free from deformity, and PAIS, a child.

Out of these two words, I have compounded that of ORTHOPAEDIA, to express in one term the design I propose, which is to teach the different methods of preventing and correcting deformities of children.

Nicholas Andry, 1741
Orthopaedics has moved a long way since

Patients
Are treated well before they get the deformity
Treated acutely
Especially in trauma.
Polytrauma

- Syndrome of multiple injuries (ISS > 17 or AIS >3)
- With consequent SIRS for at least one day in the first 72hrs.
- Leading to dysfunction or failure of remote organs and vital systems
- Which had not been directly injured themselves

Keel (2006)
Q. How do you hide a £5 note from a General Surgeon?
A. Hide it in the Patient's Notes.

Q. How do you hide a £5 note from an Orthopaedic Surgeon?
A. Hide it in a Textbook.

Q. What does an orthopaedic surgeon call the heart.
A. A soft tissue organ for pumping cefuroxime around the body.

Q. What do you call 2 orthopaedic surgeons reading an ECG.
A. A double blind trial.
Orthopaedics and Trauma

- Orthopaedic surgeon in trauma care
- Unique challenge
- Needs to acquire knowledge about overall resuscitation of the patient
- Treatment of injuries to other organ systems

Chapman. CORR. 1979;339.
Training in South Africa

ORTHOPAEDIC SPECIALITIES

36 Mths

12 MONTHS ORTHO
3 MONTHS ICU
3 MONTHS SURGERY

18 Mths

ORTHOPAEDIC SURGEON

SURGICAL SPECIALITIES

36 Mths

6 MONTHS GENERAL SURGERY
3 MONTHS ICU
3 MONTHS TRAUMA/SURGERY

12 Mths

GENERAL SURGEON

Colleges of Medicine of SA
Practice of Orthopaedics

- UK, USA, SA, CANADA, NZ, AUSTRALIA.

- Emphasis and development has been on:
  - Metals and Implants
  - Biomechanics of biomaterials and implants
  - Bone biology

- Training and practice skewed towards this.

- Subspecialization, with neglect of trauma

- Other specialities have been developing their skills in polytrauma management.

- SIRS and the likes therefore managed by these specialities.

- Depends a lot on where the speciality is practised.
Burden of Musculoskeletal Trauma

• **MGH**
  - 48% require orthopaedic intervention
  - 6% require general surgical procedures

• **SBAH (10/2013-09/2014)**
  - Gen Surg/Thoracic/ Vascular 1235 (17.7%)
  - Orthopaedics 2418 (34.7%)

**Orthopaedics and Trauma 2012.**

**Theatre stats. SBAH admin.**

• **Oxford Trauma Centre 1980’s-** Peter Warlock
GERMANY

- Fast freeways, no speed limit.
- Mainly blunt trauma
- Mostly musculoskeletal trauma.
- Orthopaedic surgeons responsible for trauma coordination
- Also trained to manage visceral and vascular trauma
- Learnt and developed the skill of managing polytrauma.
- Because of need

Orthopaedic Training

**GERMANY**

- **36 Mths**
  - ORTHOPAEDIC TRAINING

- **12 Mths**
  - ROTATIONS IN SURGICAL FIELDS

- **24 Mths**
  - ER
  - ICU
  - ORTHO WARD
  - ORTHO OPD

**USA**

- **48 Mths**
  - ORTHOPAEDIC TRAINING
  - 3 Months rotations in Orthopaedic Specialisties:

- **12 Mths**
  - “INTERNSHIP” Rotation in associated fields

Stahel. Orthopaedics 2008;31(8).
ORTHOPAEDIC SPECIALITIES

12 MONTHS ORTHO
3 MONTHS ICU
3 MONTHS SURGERY

18 Mths

ORTHOPAEDIC TRAINING

ROTATIONS IN
SURGICAL FIELDS

ER
ICU
ORTHO WARD
ORTHO OPD

24 Mths

SOUTH AFRICA

GERMANY

36 Mths

12 Mths

36 Mths
Trauma Surgeon

- Surgeon skilled in a speciality

- Adequately trained in Intensive Care Medicine
  - Training of one year.
  - To include other aspects of acute trauma eg. Fast, interventional radiography.
Subspeciality of Trauma Surgery in the College of Surgeons of SA

1.0 ELIGIBILITY TO TAKE THE EXAMINATION
In order to be eligible to enter this examination, the candidate:-

1.1 Must comply with the requirements for registration as a medical practitioner, as prescribed by the Medical, Dental and supplementary Health Services Act.

1.2 Must be registered as a specialist Surgeon.

1.3 The applicant should hold a current certification in Advanced Trauma Life Support (ATLS®), prior to entry for the examination.

1.4 The applicant must show evidence of successful completion of a Definitive Surgical Trauma Care (DSTC®) Course, prior to entry for the examination.
Who should be in charge of polytrauma

- Surgeons with interest in trauma care must take leadership in trauma care.

- Acute care surgeon the answer.

YES

GENOTYPE

PHENOTYPE