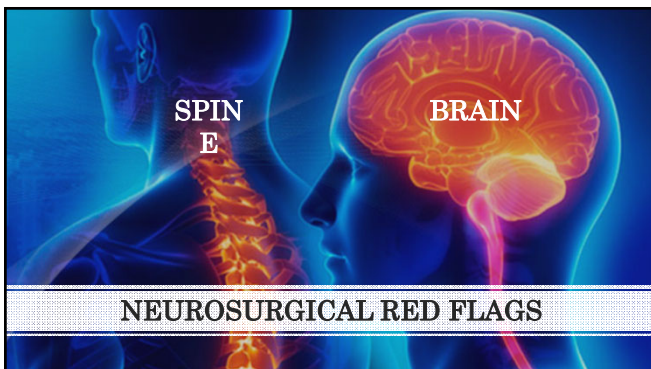




OVERVIEW OF LECTURE	
1 Red Flags Lower Back Pain Neck Pain Headaches	4 Operative Anaesthetic Surgical
2 Referrals Surgical Information Medical Information Referral Process	5 Postoperative Immediate Traditional Rehabilitation Chiropractic
3 Preassessment Surgical Medical	6 Observations Perceptions Enlightenments



Are chiropractors different from other allied or alternative health care practitioners

The concept of recognition and management of **red flags**

The concept of recognising and management of the diagnosis not just the symptoms


- What are the symptoms?
- What are the diagnosis?
- What is the natural history?
- What is the management to alleviate the symptoms and/or to improve the natural history?
- Am I qualified and possessing the skills to provide those management?

- When do I seek help?**

Common referral to Chiropractors

Back and Neck Pain

- Common
 - Lifetime prevalence: 80%
 - Annual incidence 15-20%
- Significant Impact
 - Adversely affect QOL
 - 1-2% GDP
 - 1% work force on sick leave per day
 - No 2 reason for long term sick leave



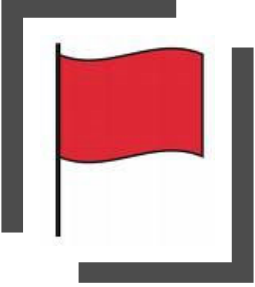
A cartoon showing a doctor and a patient. The patient says, "IT'S MY BACK DOC... THE PAIN IS UNBEARABLE". The doctor replies, "HE'S BOOKED A MIDWEEK RUGBY TRIP WITH HIS MATE SO HE WANTS A SIGNNOTE". At the bottom, it says "IN SURGERY INTERPRETER WAS UNABLE TO TRANSLATE...".

Assessment and Treatment

- "Simple"
 - Majority
 - Neurogenic <5%
 - Mechanical >90%
- "Serious"
 - <2%
 - RED FLAGS**



Three MRI scans of the spine. The top one shows a normal spine. The middle one shows a vertebral fracture labeled "Pathological fracture (metastatic)". The bottom one shows a fracture with a surgical rod and screw.



Assessment and Treatment


1. Exclude **Red Flags**
2. Looking for clues of the pain generator
3. Management
 - Acute to subacute <6 – 12 weeks
 - Chronic >6 – 12 weeks

Red Flags

- **Rare but serious, Needs Urgent Attention.**
- Suspicion mainly from history



“ IT'S PROBABLY JUST SOMETHING YOU PICKED UP AT THE OFFICE ”

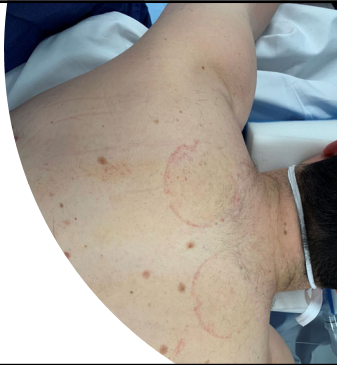


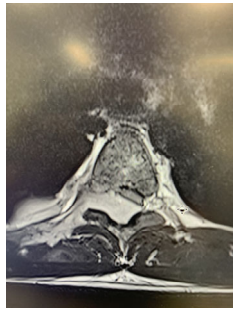
Red Flag 1: Tumour

- Past history of malignancy
- Unexplained weight loss
- Significant nocturnal/rest pain

Case History

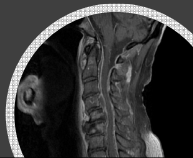
- Young man in 30s
- Upper back pain
- Nocturnal, unremitting
- Sweats
- Numbness in trunks and legs
- Treated with physical therapy and cupping





Red Flag 2: Infection

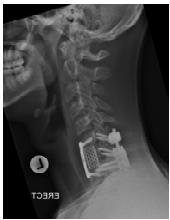
- History of diabetes, immunosuppression, IVDU
- Fever, rigors, sweats
- Recent history of UTI, spine intervention



Red Flag 3: Fracture

- Elderly
- Postmenopausal female
- Chronic steroids use
- Osteoporosis
- Ankylosing spondylitis, DISH
- Recent trauma





Lucky missed

Red Flag 4: Significant Neurological Deficit

- Cauda equina syndrome
- Cervical myelopathy
- "Foot drop"






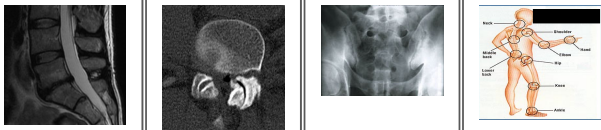
If presence of **Red Flags**

- Investigate if necessary
- Urgent referral to a specialist



Back pain
Its so much more than just the spine.

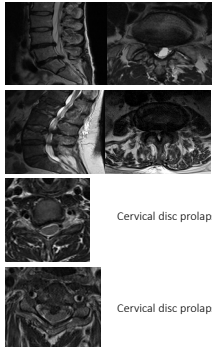




Facet joint pain Discogenic pain Peripheral Joint Myofascial pain

Mechanical Back Pain

Neurogenic Pain




Radicular pain


Neurogenic claudication

Cervical disc prolapse with nerve root compression

Cervical disc prolapse with spinal cord compression

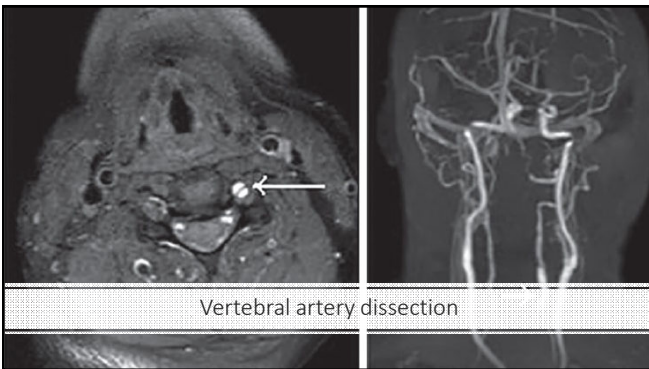
Simple back pain

 Manage them if you are comfortable

 Refer if indicated



Headache Red Flags		
SSNOOP4		
S Systemic Symptoms	Fever, weight loss, fatigue	Infection, inflammation, metastatic cancer, meningitis
S Secondary risk factors	HIV, cancer, immunosuppression	Infection, inflammation, metastatic cancer, meningitis
N Neurological signs	Altered GCS, focal deficits	Encephalitis, mass lesion, stroke
O Onset	Thunderclap, abrupt	SAH, IPH, RCVS
O Older	New > 50years old	Temporal arteritis
P Positional	Change with posture or neck position	Intracranial hypertension, Post fossa pathology, dysautonomia cervicogenic headache
P Papilloedema	Visual disturbance	
P Previous Headache History	Change in quality	
P Precipitated by Valsalva		



Vertebral artery dissection

Look out for these features:

- Older patients over 65 years
- Reports of any of the following typical symptoms of VBI

5 Ds

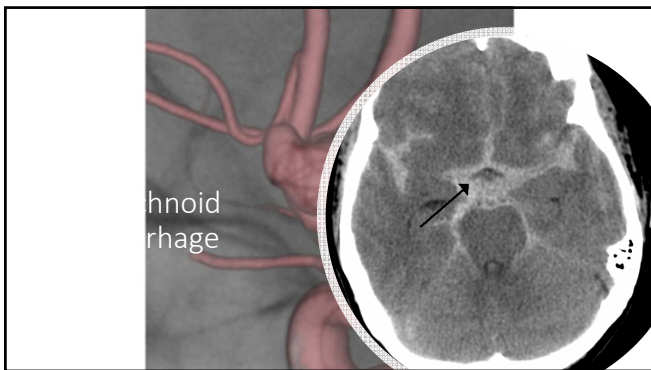
- 1 Dizziness and/or unsteadiness
- 2 Diplopia – double vision, visual field loss
- 3 Dysarthria/dysphasia – difficulty with speech or finding words
- 4 Dysphagia – difficulty swallowing or unexplained hoarse voice
- 5 Drop attacks – sudden collapse without loss of consciousness

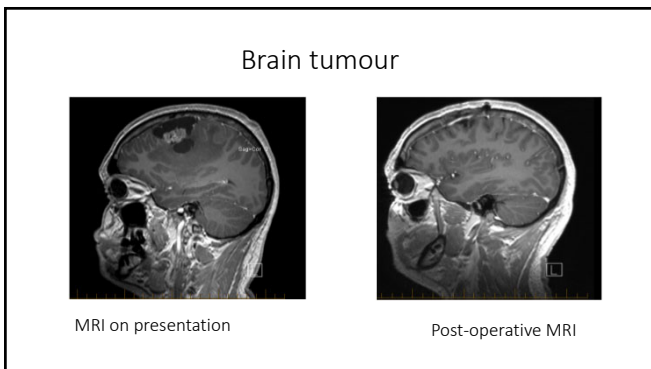
3 Ns

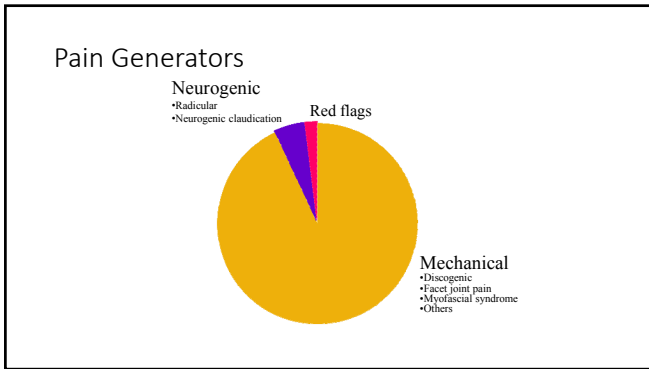
- 1 Nystagmus (spontaneous)
- 2 Nausea/vomiting
- 3 Numbness or paraesthesia (perioral)

Double vision

Altered sensation around mouth/nose area












When do you refer simple back/neck pain

- Suspicious of Red Flags
- Refractory pain >6-8 weeks
- Progressive pain
- Progressive neurological deficits

Surgical information required

What information do I need from the referrers

-  PATIENT'S DETAILS AND CONTACT
-  SYMPTOMS AND/OR DIAGNOSIS
-  ANY CONCERNING FEATURES
-  ANY IMAGING STUDIES



Medical information required

- Allergies
- Current medications
- Past medical history
- Occupation
- Significant family medical history
- Smoking history
- Other relevant details

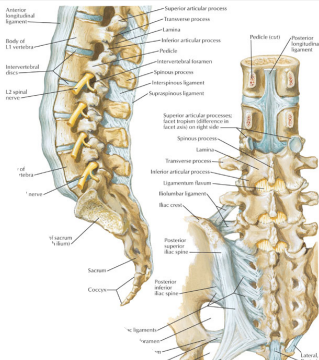
It's a real bonus if the patients weight and height is included



Surgical Consult


Aims of consultation

1. Exclude Red Flags
2. Looking for clues of the **pain generator**
3. Management
 - <6-8 weeks
 - >6-8 weeks




Clues of pain generator: History

- Quality of the pain
 - Site
 - Nature
 - Severity
 - Exacerbating & relieving factors
- Circumstances
 - Onset
 - Duration
 - Pain pattern: 24 hours, since onset
- Management
 - Previous episodes, past management
 - Current treatment & medication



Clues of pain generator: Examination



- Inspection & palpation
- Range of motion
- Gait
- Special tests:
 - Spurling's test
 - SLR, FABER, Waddell
- Neurological examination
 - Tone, power, reflex, sensation
- Peripheral pulses

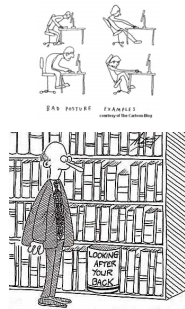
My Management in acute pain < 6 -12 weeks

- 1. Education
- 2. Advice
- 3. Physical therapy
- 4. Investigation is NOT necessary
- 5. Pharmacotherapy



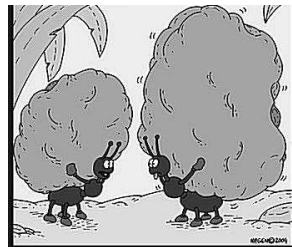
Education

- Explanation
- Positive reassurance
- Proper posture, sleeping positions, lifting techniques





Staying Active

- Bed rest should be limited
- Temporary activity modification, progressive return to normal activity/work



I hurt my back last week, so I've been put on "Light Duty" for a couple of weeks...


Exercise

-  Initially, low stress aerobic exercise
-  Longer term, core muscle exercise, back conditioning, pilates

Pharmacotherapy

• Is the pain under controlled?

- Paracetamol +/- weak opioids
- NSAIDs
- Muscle relaxants
- Amitriptyline
- Membrane stabilising agents
- Steroids/cortisone injection

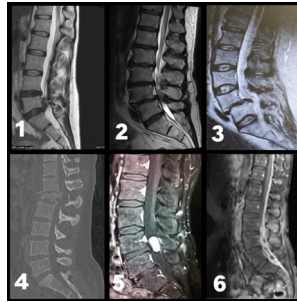


Management of neck and back pain > 6 - 12 weeks

- Education
- Target specific diagnosis, investigation and management
- Surgery vs continued conservative treatment
 - SPORT trial

Indications for spine surgery

- 1. Large herniated disc
- 2. Spinal stenosis
- 3. Spinal spondylolisthesis
- 4. Spinal fracture
- 5. Spinal tumor
- 6. Spinal infection/abscess



Indication for surgery in degenerative spine disease

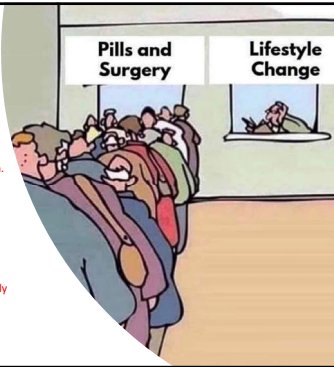
- Red Flags
- Functionally important neurological deficits
- Significant significant pain!!!
- Refractory pain that impact on lifestyle
- "I have enough"

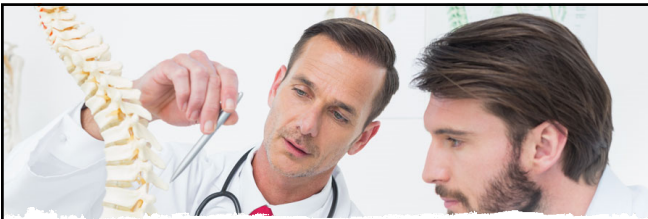


Positive Investigations

Key to successful spine surgery

1. Right indication and plan.
The best surgery never overcomes the wrong indication.
2. Great intraoperative team.
Trust & communication.
3. The right tools.
Microscope, neuro-navigation GPS
4. Patient preparedness.
Never rush until the patient is emotionally and physically ready.





What's the difference between a Chiropractor and an Anaesthetist?

The public know that Chiropractors are called Doctors.

10% of patients did not know Anaesthetists were Doctors.
17% of patients did not know we were Specialists.
30% of patients had no idea what we did.

Patients' knowledge of the qualifications and roles of anaesthetists

A. B. MURPHY, A. LINDSEY, C. MORGAN & B. DILLON
Department of Anaesthesia and Pain Management, St. Vincent's Hospital, Melbourne, Victoria, Australia

SUMMARY
Patients' knowledge of anaesthetists' qualifications and roles remains poor. The majority of patients do not know that anaesthetists are medical doctors. This is a significant finding as it may impact on patient safety and the ability of anaesthetists to communicate with patients. The study highlights the need for improved patient education regarding the qualifications and roles of anaesthetists.

INTRODUCTION
The general public has a poor understanding of the qualifications and roles of anaesthetists. This is a significant finding as it may impact on patient safety and the ability of anaesthetists to communicate with patients. The study highlights the need for improved patient education regarding the qualifications and roles of anaesthetists.

DISCUSSION
The study highlights the need for improved patient education regarding the qualifications and roles of anaesthetists. This is a significant finding as it may impact on patient safety and the ability of anaesthetists to communicate with patients.



National Anaesthesia Day
October 16, 2015

What is an anaesthetist?
[an-ees-the-tist]

During an operation, your life is on our hands, But despite the highly sensitive role we play, we are all but invisible to our patients.
"The Guardian."




Illustration: Michael Dryer

Anaesthetists have an extensive knowledge of medicine and surgery and understanding of the basic sciences. They know how the body responds to anaesthesia and surgery, and how a patient's health affects these responses.

We know how to use medications (PHARMACOLOGY) to alter how the body works (PHYSIOLOGY) to achieve a desired state that allow surgery to proceed safely or stabilises a critical ill patient, as well as a structural understanding of the body (ANATOMY) so as to implement advanced practical procedures such as tracheal intubation, central line and regional blocks.

Minimum training time: 5-7 years med school + 3+ years Junior doctor + 4 years training program + 1-2 years Fellowship = Total of 13-16+ years.

I took 18 years to become a Specialist Anaesthetist.





Supra-Glottic Airway Device (SAD) and Conversion Techniques

Anaesthetic Film Cricoid Intubation (AFICI)

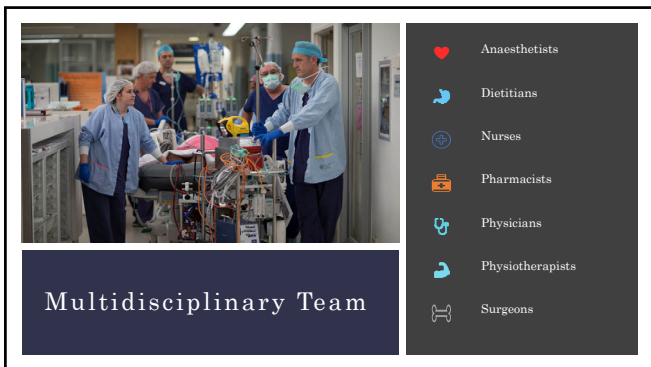
Videosyncope and TBI/SE

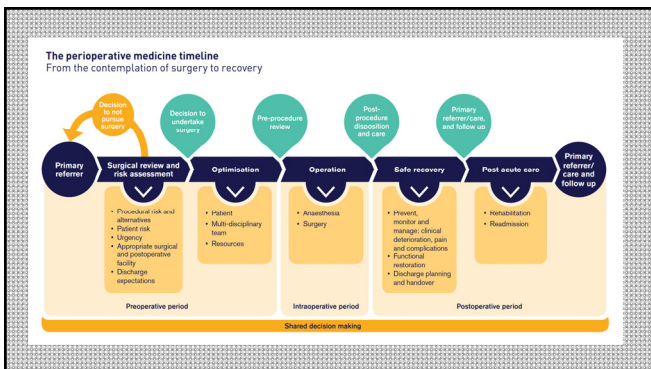
Can't Intubate Can't Oxygenate (CICO)

I'm your anaesthetist

The Asia Anesthesia Summit 2016







Perioperative Medicine

- Preoperative risk assessment
- Shared decision making
- Optimisation of physiological function
- Individualised goal directed intraoperative care
- Post operative care
- Rehabilitation to normal function

PeriMed
MONASH University theAlfred
Medicine, Nursing and Health Sciences


What is a full blood count test?

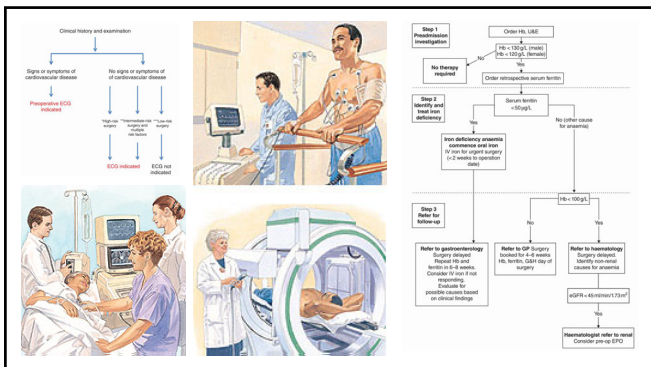
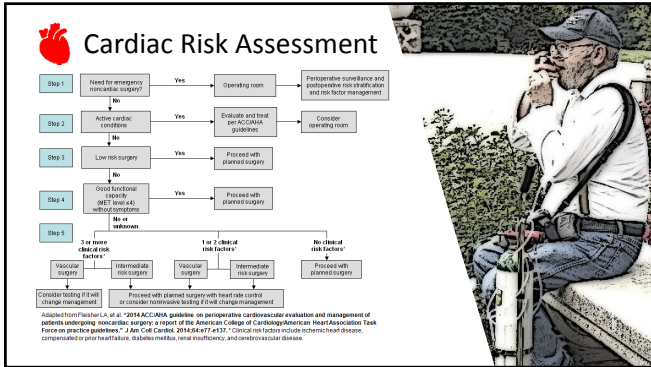
It is an investigation asked for by the Anaesthetologists to help them cancel the surgery.

ANAESTHETIC PREASSESSMENT

Risk Factors

- Age
- Sex
- Socioeconomic status
- Aerobic capacity
- Ischaemic heart disease
- Heart failure
- Kidney disease
- Ischaemic brain disease
- Peripheral artery disease





Stroke Risk with AF

TABLE 23.2 The CHADS₂ and CHA₂DS₂-VASc risk stratification scores for atriope with non-valvular AF
Score (0-6). Reproduced with permission from Elmer Ltd.

Definition and scores for CHADS ₂ and CHA ₂ DS ₂ -VASc	Stroke risk stratification with the CHADS ₂ and CHA ₂ DS ₂ -VASc scores	Adjusted stroke rate (% per year)
CHADS₂	CHA₂DS₂-VASc	
Congestive heart failure	1	0
Hypertension	1	1
Age ≥ 75 y	1	2
Diabetes mellitus	1	3
Stroke/transient ischaemic attack/thromboembolism	2	6
Maximum score	6	5
		12.3%
		18.2%
		18.2%
CHA₂DS₂-VASc	CHA₂DS₂-VASc	
Congestive heart failure	1	0
Hypertension	1	1
Age ≥ 75 y	2	2
Diabetes mellitus	1	3
Stroke/transient ischaemic attack/thromboembolism	2	6
Vascular disease (prior MI, IHD or aortic disease)	1	5
Age 65-74 years	1	6
Sex category (eg, female)	1	7
Maximum score	9	8
		6.7%
		15.2%

MI, myocardial infarction; IHD, peripheral artery disease.



Pulmonary Risk Assessment

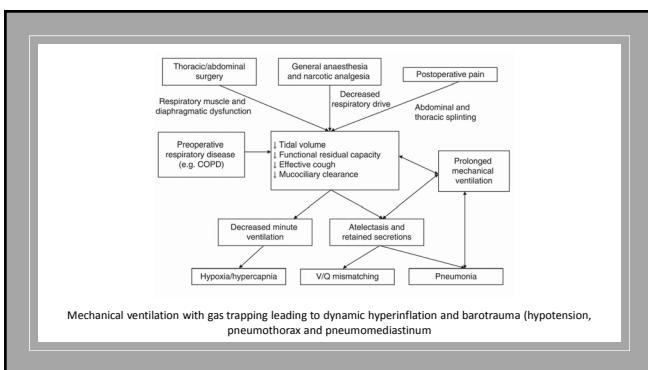
0 to 25 points: Low risk: 1.6% pulmonary complication rate
26 to 44 points: Intermediate risk: 13.3% pulmonary complication rate
45 to 123 points: High risk: 42.1% pulmonary complication rate

- Age**
 - <50 years old (0 points)
 - 51 to 60 years old (2 points)
 - >60 years old (16 points)
- Preoperative oxygen saturation**
 - ≥95% (0 points)
 - 91 to 95% (8 points)
 - ≤90% (24 points)
- Other clinical risk factors**
 - Respiratory infection in the last month (17 points)
 - Preoperative anemia with hemoglobin ≤10 g/dL (11 points)
 - Emergency surgery (8 points)
- Surgical Incision**
 - Upper abdominal (16 points)
 - Intrathoracic (24 points)
- Duration of surgery**
 - <2 hours (0 points)
 - 2 to 3 hours (16 points)
 - >3 hours (23 points)

What Do You Do if OSA Is Suspected: STOP-BANG

<p>▶ STOP Questionnaire</p> <ul style="list-style-type: none"> • Snororing • Tiredness • Observed you stop breathing • Blood Pressure 	<p>▶ BANG</p> <ul style="list-style-type: none"> • BMI >35 • Age >50 • Neck circumference >40 cm (>15.7") • Gender male
--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

High risk: Yes to ≥3 items → Refer for sleep testing



Consolidated Anaesthetic Assessment

Allergies:
No Known Medication Allergies

Anaesthetic History: Prior anaesthesia without problems
ASA: 4
Anaesthetic Issues: IHD - Triple vessel disease, recent NSTEMI, Respiratory Failure on home oxygen. Sats 86% on room Air. Walking distance 15 m on room air.
Anaesthetic Plan: Spinal
Patient Discussion: Anaesthesia Risks Discussed, Questions Answered, High risk GA. Pt is aware and happy for spinal anaesthesia. Technique and risks discussed including failure, dural puncture headache, infection, haematoma, nerve damage including permanent paralysis. Pt has had spinal before for knee replacement

Medical History
Functional status: Poor (<4 METS), Walking <4km/hr
Cardiovascular: Ischaemic Heart Disease: Myocardial Infarction, Angina with Ordinary Activity (CCS 2), NSTEMI August 2019. CT Coronary angiogram shows moderate triple vessel disease (LAD 25-50%, D1 50-70%, Cx 25-50%, RCA 25-50%). Myocardial perfusion stress test 22/8/19 showed aborted due to hypoxia and hypotension.
Respiratory:
COPD: Home Oxygen Therapy
Other Respiratory Condition: Hypersensitivity Pneumonitis secondary to occupational exposure. 24/7/19 RFTs: FEV1 1.58 (58% predicted), FVC 1.79 (48% predicted), TLC 3.4% predicted

Patient education & support

- Consent
- Preoperative fasting guidelines
- Anaesthetic options
- Pain relief
- Instruction for medications
- Smoking cessation advice
- Reduce anxiety
- Postoperative placement

Preparing for your anaesthesia

Your checklist

- Try to improve your physical fitness and stop smoking (even stopping 10-15 hours before surgery makes a real difference)
- Eat a healthy diet and make sure you are well
- If you are diabetic, make sure your sugar levels are tested and are around your normal level
- Have a list of your preoperative medicines as well as your allergies to show with your anaesthetist. This may be asked not to take some medicines before surgery
- Take only your essential medicines. Complimentary medicinal and herbal medicines may need extra care to ensure they will not interfere if you need to stop taking them
- Don't overeat in the 24 hours before surgery to drink excess alcohol, as you could become dehydrated
- If you need to have more about your anaesthesia or surgery, call the "01 204 6000". Contact your anaesthetist directly through the hospital or your transport office. They will be happy to advise you.

Find out more at www.anzca.edu.au

A psychological perspective

"I have learned that my colleagues in the anaesthetic's department encounter some of the most difficult situations, the sharpest edges of human distress."

"Far from being people who only deal with sedated patients, anaesthetists end up dealing with some of the most extraordinary situations with complex psychological trauma involved."

Kate Jenkins

When I first started out as a clinical psychologist in a district general hospital, I have to admit that the anaesthetists were not a group I saw myself having a lot to do with. Since then, I have learned that my colleagues in the anaesthetics department encounter some of the most difficult situations, the sharpest edges of human distress. Far from being people who only deal with sedated patients, anaesthetists end up dealing with some of the most extraordinary situations with complex psychological trauma involved. I now work regularly with the variety of settings and have an enormous amount of psychological management skills.

BJA: British Journal of Anaesthesia, Volume 113, Issue 1, July 2014, Pages 4-6.

ANESTHESIOLOGY
The Journal of the American Society of Anesthesiologists, Inc. • anesthesiology.org

What Anaesthetists actually do during surgery

ANZCA National Anaesthesia Day October 16, 2019

Anaesthesia isn't sleep. It's so much deeper.

When you are asleep
You'll be woken by...

- Loud noises
- Breathing difficulties
- Being too hot or cold
- A full bladder
- Physical pain

Under general anaesthesia
We monitor your...

- Brain
- Breathing
- Heart rate, blood pressure and circulation
- Amount of anaesthetic received

...to keep you safe during surgery so you won't respond to sound, pain, temperature changes, and so you don't remember the procedure.

Get ready for surgery by...

- Eating time
- Drinking and smoking less (OTCA before is best)
- Talking to your anaesthetist

...and after the operation

- We'll care for you and keep you safe as you recover.
- We'll treat any pain and ensure you're comfortable.

Anaesthetic process

Draw up medication Equipment check Final patient assessment Induction

OPERATIVE MEDICATION

Drug	Dose	Route	Time	Date to be given
Ordered by:				
Checked by:				
Quantity:				
Time given:				
(PRINT AND SIGN NAME)				

ANAESTHETIC ASSESSMENT *Maria L. ... c. CFA EA*

INVESTIGATIONS
 Hb 11.5
 WBC 12.5
 Platelets 150
 Urea 2.5
 Creatinine 0.8
 LFTs normal

ASA Score 3

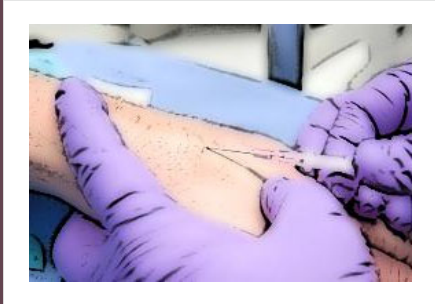
Exam: 1/10/2019

dx 200 sitting → 2000 Gtt → chest/abdomen
 dx 200 → 2000 Gtt → chest/abdomen
 dx 200 → 2000 Gtt → chest/abdomen

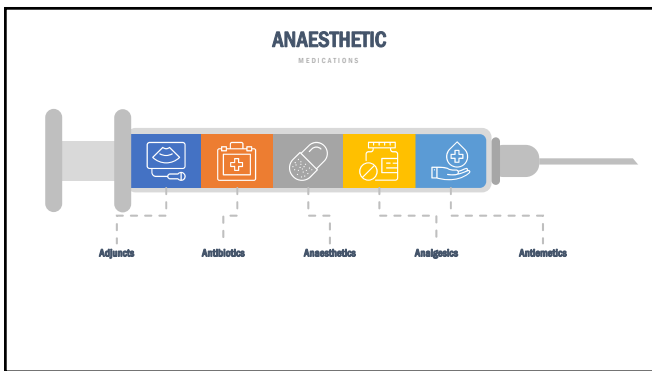
ASA 3
 history: well, no smoking, no alcohol
 dx 200 → 2000 Gtt → chest/abdomen

IDENTIFICATION: Spinal anaesthesia
 2000 ALCOHOL: none
 2000 ALCOHOL: none

Preop- Anaesthetic Assessment

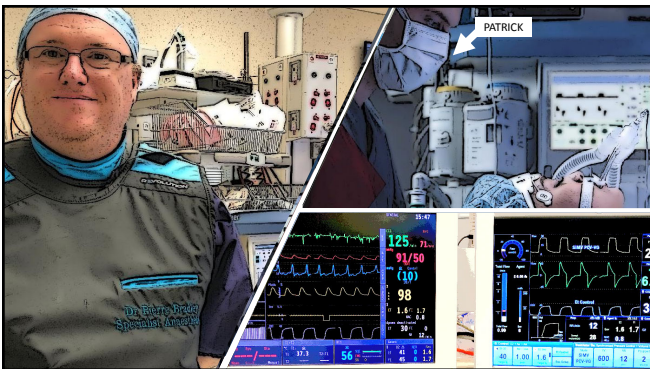


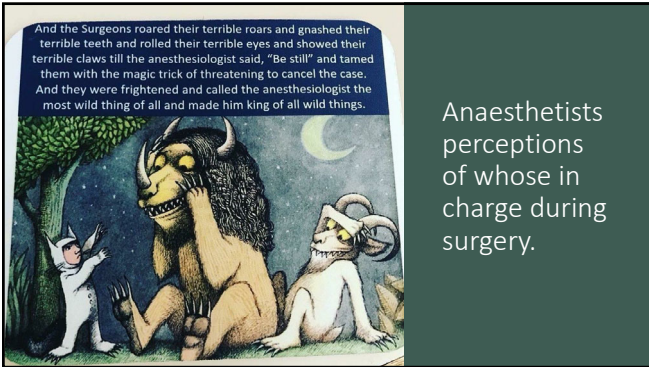
Intravenous cannula insertion

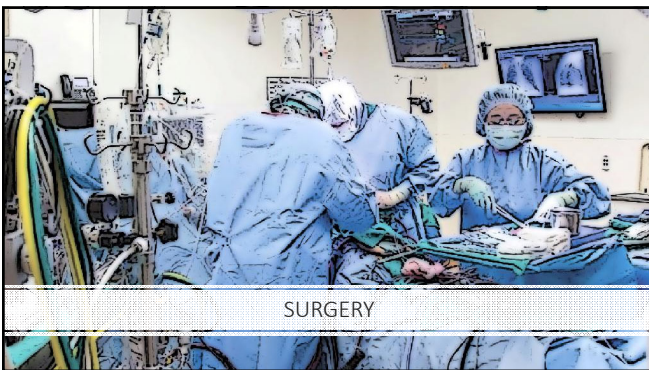


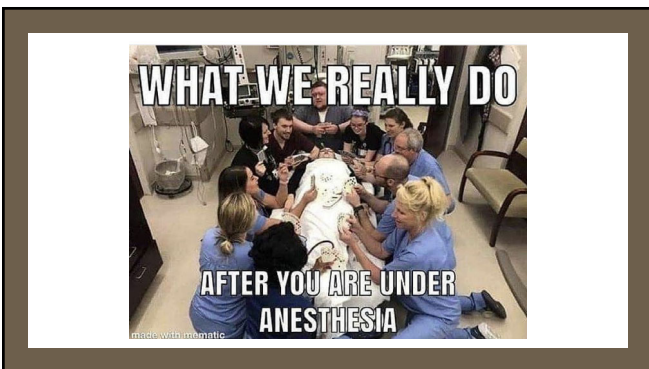


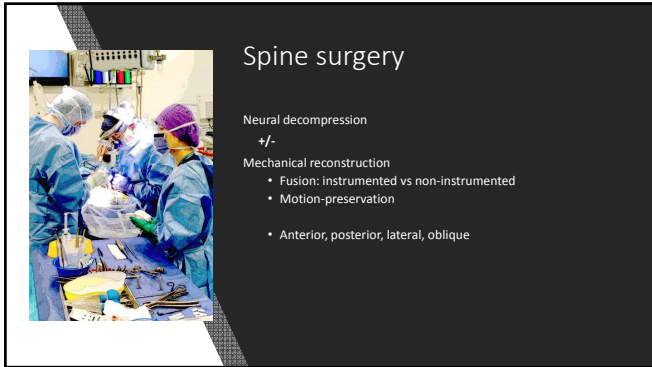












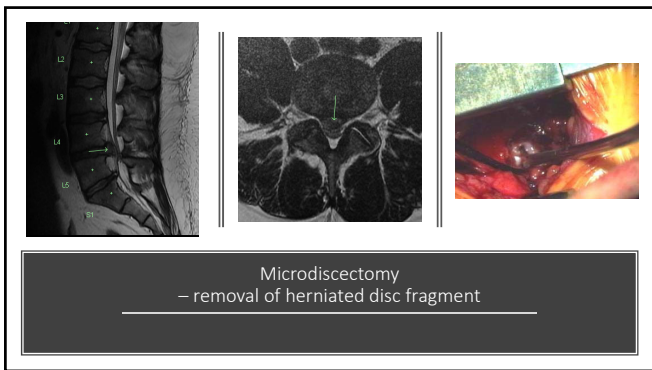
Spine surgery

Neural decompression
+/-

Mechanical reconstruction

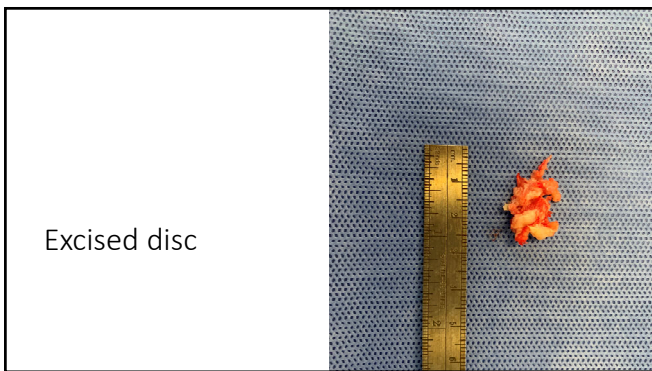
- Fusion: instrumented vs non-instrumented
- Motion-preservation
- Anterior, posterior, lateral, oblique

The slide features a photograph of surgeons in an operating room on the left side. The background is dark with white text.




Microdiscectomy
– removal of herniated disc fragment

The slide contains three images: a sagittal MRI scan of the spine with levels L2, L3, L4, L5, and S1 labeled; an axial MRI scan showing a herniated disc; and an intraoperative photograph showing a surgical approach to the disc.

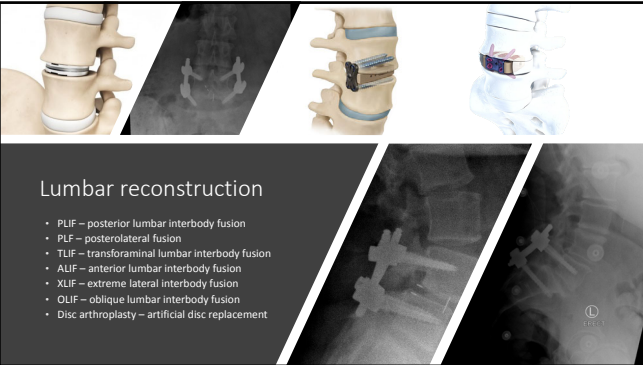


Excised disc

The slide shows a photograph of a small, orange, irregularly shaped excised disc fragment placed next to a ruler for scale on a blue surgical drape.

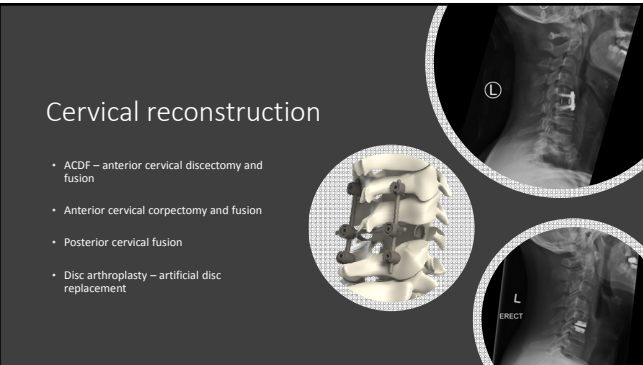


Laminectomy – decompression of canal stenosis



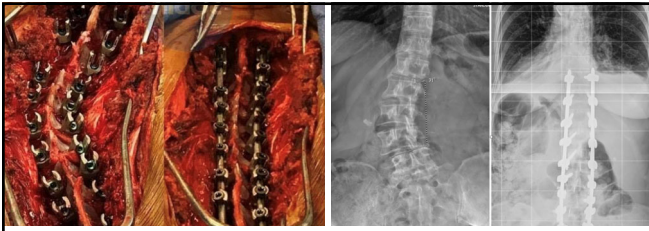
Lumbar reconstruction

- PLIF – posterior lumbar interbody fusion
- PLF – posterolateral fusion
- TLIF – transforaminal lumbar interbody fusion
- ALIF – anterior lumbar interbody fusion
- XLIF – extreme lateral interbody fusion
- OLIF – oblique lumbar interbody fusion
- Disc arthroplasty – artificial disc replacement



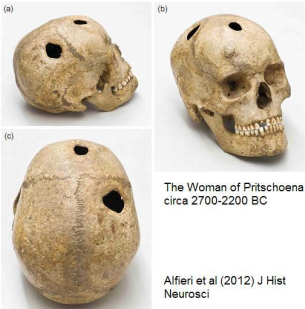
Cervical reconstruction

- ACDF – anterior cervical discectomy and fusion
- Anterior cervical corpectomy and fusion
- Posterior cervical fusion
- Disc arthroplasty – artificial disc replacement



Scoliosis Surgery

The humble dawn of neurosurgery



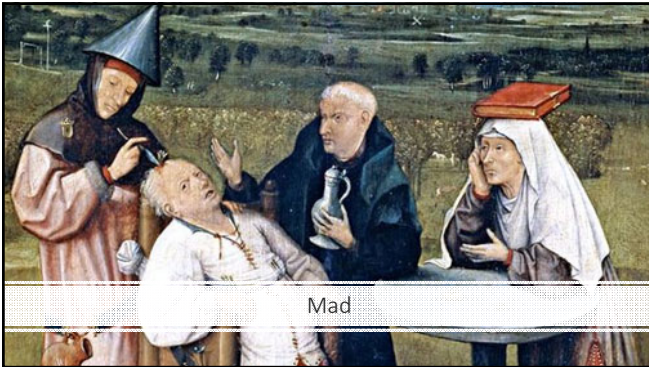
(a) (b) (c)

The Woman of Pritschoena circa 2700-2200 BC

Alfieri et al (2012) J Hist Neurosci

A composite image with three panels: a scene of people in a mountainous region, a skull with a hole, and a golden ceremonial object.

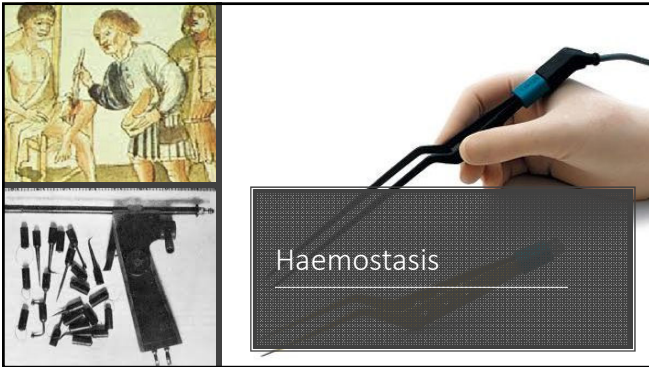
Pre-Columbian America



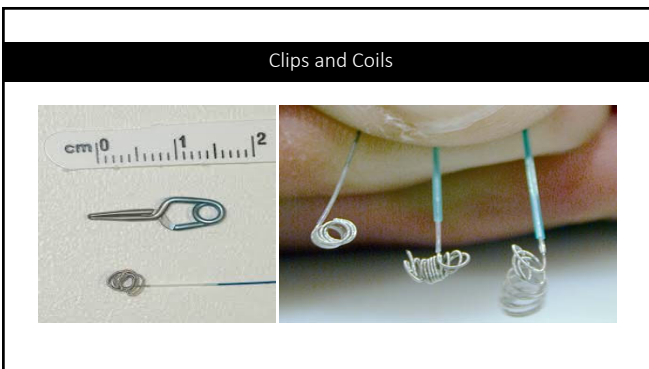
Neurosurgery today

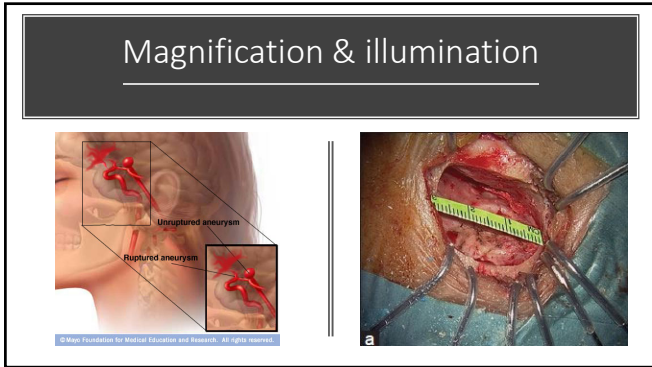
- Microscope
- Drills
- Electrosurgery
- Ultrasonic aspirator
- Microsurgical tools
- Neuronavigation

Trephines and Drills

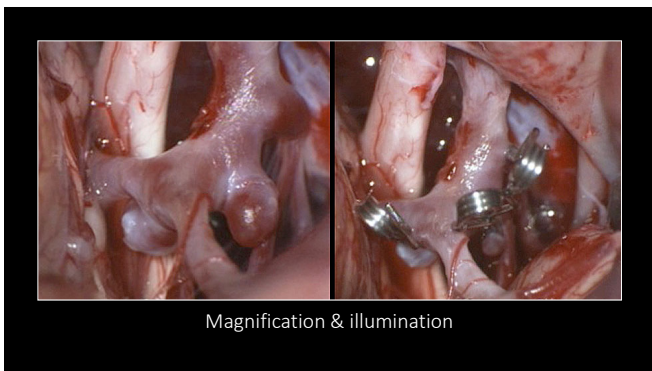


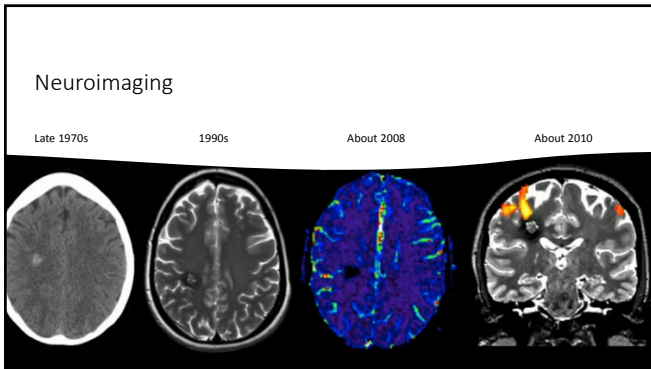


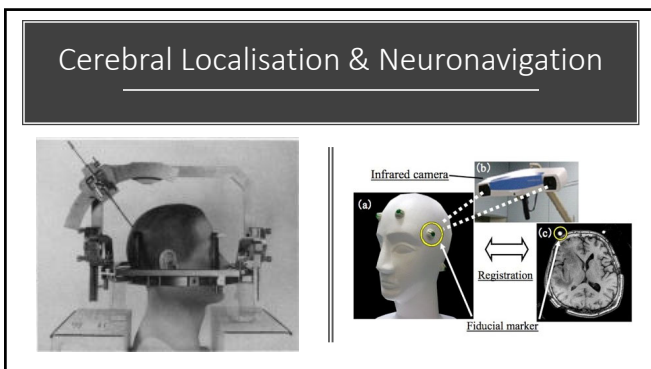


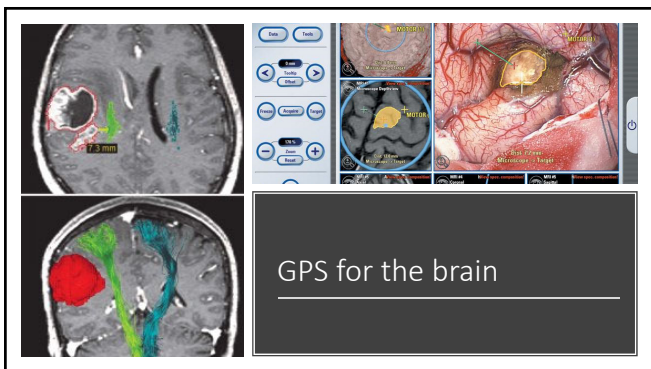




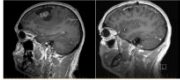




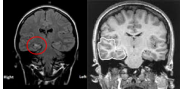




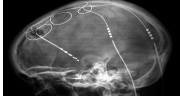
Applications



Brain tumour surgery




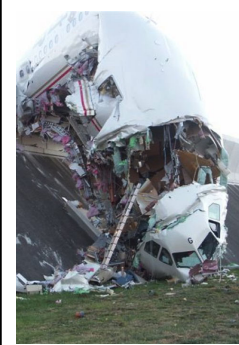
Epilepsy surgery



Parkinson's disease



Finishing the Surgery



Extubation:
Things to avoid when waking
the patient up

Extubation

Vital parameters normal

- Sats >95% on low FIO₂
- SBP > 100 on minimal vasopressors
- Acid base balance

Muscle relaxation reversed

Sedative drugs stopped

Analgesia

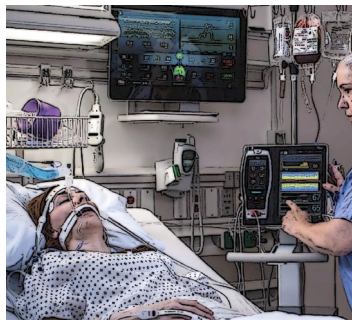
Suction & aspiration risk

Advanced techniques? If a difficult intubation



Post-Anaesthetic Care

ICU



Post Anaesthetic Care Unit



ISOBAR

- Identify patient
- Situation
- Observations
- Background
- Assessment
- Response & Rational


Cardio-Respiratory Optimisation

Pain Management

- Titrated IV opioids
- Oral medication
 - Paracetamol
 - NSAIDS
 - Opioids (short & long acting)
- PCAs
- Regional techniques
- Neuroaxial therapy
- Adjuncts
 - Ketamine
 - Lignocaine

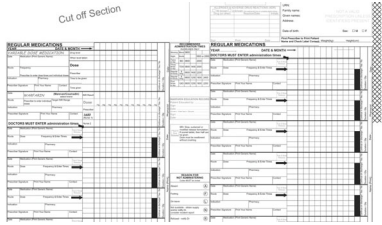
Antiemetic Therapy

Risk factors for PONV	Number of risk factors	Incidence of PONV (%)
	0	10
Female gender	1	20
History of motion sickness and/or previous PONV	2	40
Non-smoking status	3	60
Postoperative opioid use	4	80



Fluid Management






Written Ward Management Plan

- Antibiotics
- Anticoagulation
- Analgesics
- Antiemetics
- Fluids
- Nutrition
- Mobilisation







Post-operative ward round

- Pain control
- Resolution/Improvement/arrest of presenting symptoms
- Blood loss
- Neurological status
- Infection control
- Mobilisation
- Discharge plan: home or rehabilitation unit



Post-operative rehabilitation

-  Variability.
-  Prolonged bed rest after surgery IS NOT required or recommended.
-  Gradually return to a normal pattern of daily life over 2 – 4 weeks for decompression and 6-8 weeks for fusion.
-  Brace is typically NOT useful.

Activity/mobility

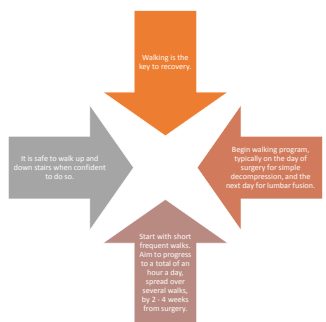
Safe to move and position according to comfort.

Safe to sit - start with short periods and build up.

Safe to travel by car, but manage trip time & consider interval stopping.


Do not drive within 24 hours of surgery. After that time it varies according to types of surgery.

Activity/mobility







Activity/mobility

 Back care exercises may be helpful.

 Individual variation in any return to sport plans. Typically return to suitable sports can begin after 3 to 6 months.

 Time frame for return to work will vary according to type of surgical procedure and occupation.





Restriction

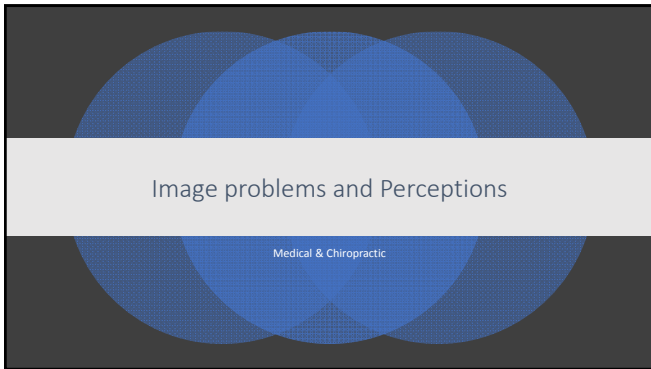
-  Avoid heavy lifting for three months.
-  If lifting, keep back straight. Avoid bending and twisting, bend your knees and use your legs to do the work.
-  Avoid straining.
-  Don't restrict shoulder movement.

Rehabilitation



- Range of motion and strength with ultimate aim of returning to close to previous lifestyle.
 - Sciatic nerve glide, core and pelvic strengthen and stability.
- Postural correction.
- Walking exercise.
- Proper lifting techniques, ergonomic evaluation, RTW-specific exercise.

Chiropractic Rehabilitation

-  Ensure your chosen approach is appropriate.
-  Use conservative management. Adjustments
STT
Traction
-  Collaboration with local physiotherapist that understands Chiropractic role.
-  Collaboration with local exercise physiologist that understands Chiropractic role.





<p>Anaesthetic blamed for woman's death at beauty clinic</p>		<p>Hospital consultant accidentally killed himself by using anaesthetic to help him sleep</p>
<p>Abortion clinic doctor charged with infecting patients with hepatitis C</p> 	<p>Doctor 'failed to protect airway' of mother who died after giving birth, court hears</p>	<p>Louis Tate died at Frankston Hospital after suffering reaction to anaesthetic, coroner finds</p>

Is baby upside down
[com.au/.../chiropractor.../a](http://www.abc.com.au/.../chiropractor.../a)
 10 hours ago
 Applied video obtained Wednesday
 Chiropractor hanging a baby

Crack quack won't be back

CHIROPRACTOR CHARGED OVER SKIM DRUG
KE BUS

Chiro's warned off treating children

CHIROS A PAIN IN THE NECK FOR PATIENTS
 CHIROPRACTORS are racking up six times more complaints than physiotherapists over allegations of dodgy advertising, dishonesty and overstepping of sexual boundaries, new data shows.

Finally a good Anaesthetic news story

Dr Richard reports, left, with diving partner Craig Challen, right. Dr Harris wants to help other

Inside the life of an all-Australian hero: How brave doctor went from treating patients to helping save the Thai football team - as campaign calls for him to be named Australian of the Year

- Anaesthetist Richard 'Harry' Harris called to Thai cave to assess trapped boys
- He has more than 30 years of experience after training in the UK and Australia

Chiropractor education is about diagnosis and treatment of mechanical disorders of the musculoskeletal system, usually involving manipulation of the spine

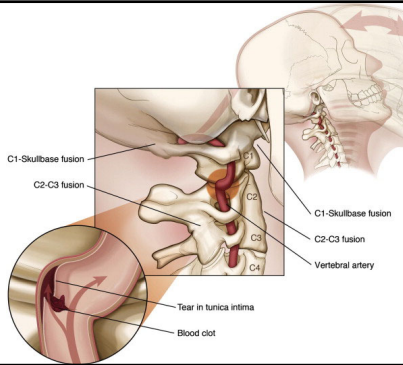
E D U C A T I O N

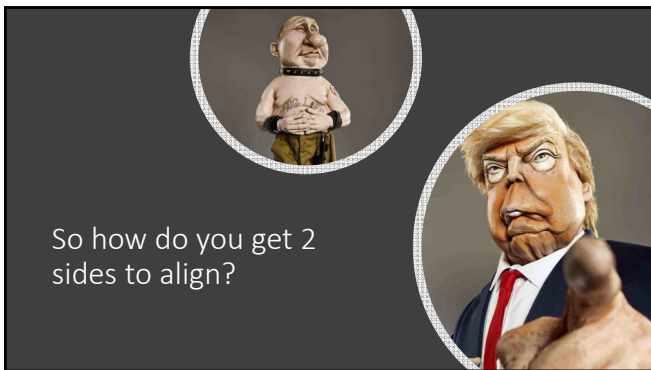
Medical Doctor's education is in diagnosing and treating patients with medications and surgery.

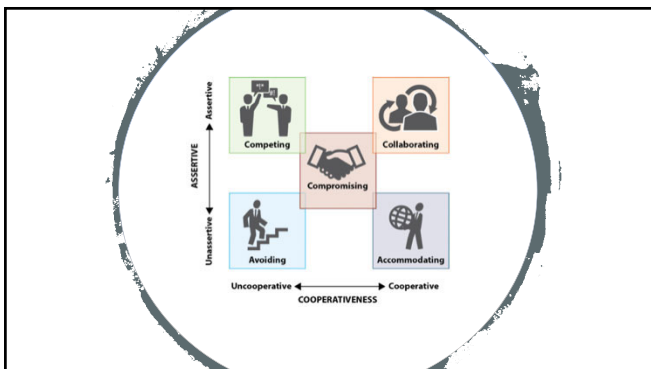
There is little if any education on what chiropractors do other than hearsay.

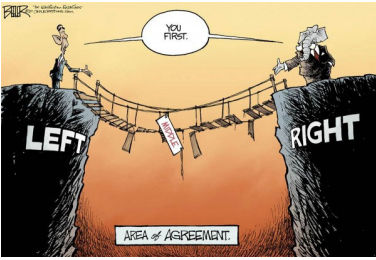
Medical Concerns

- Claims that chiropractors can:
- prevent caesarean births.
 - treat diabetes, asthma, reflux and other specific conditions.
 - cures the flu.
- Injury:
- Cerebral vascular accidents caused by vertebral artery dissection following manipulation.









- Communication
- Listen
- Find common ground
- Look for places of agreement
- Seek to understand more
- Find something to work on together
- Praise outcomes



Common ground:
children & sport



Common ground:
wine,
children & sport



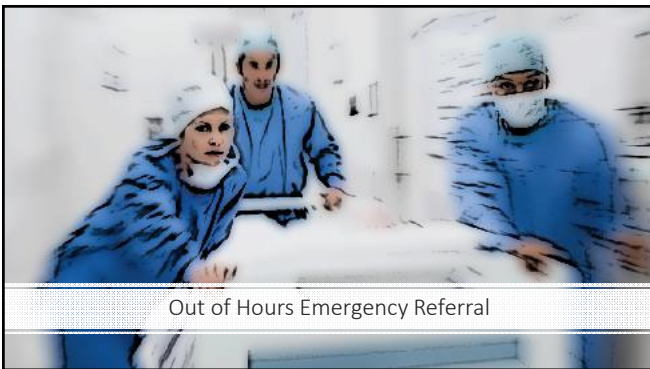
Lower Back Pain Treatment

Family member with LBP
Planned on going to the physio
Discussion with Damian
Tentative & cautious steps

Low Back Pain: Prescribed Medications vs. Spinal Manipulation

<p>56%</p> <p>of medical cases respond to best a 20% reduction in low back pain at week 4.</p>	<p>94%</p> <p>Patients should be informed of the risks of long-term use of painkillers. Manual (chiropractic) manipulation, performed by a trained chiropractor, achieves a greater short-term reduction in pain compared with medical treatments.</p>
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Dr Tyson Aldenhoven
 B.App.Sc Chiro, M.Clin.Chiro
 Director of Dynamic Integrative Health



The Chiropractor
- GP - Surgeon
Relationship
Process

- Make time to meet with your surgeons through the year
- Make time to touch base with friendly GP's
 - Remember they don't know what we do most of the time
- Discussion with Patient that you'd like to refer for a surgical opinion
- Letter to surgeon that you have the relationship with with the GP cc'd in the communication – this avoids GP over-ruling.
 - Rec printing and also sending soft copies
- Progress updates with the surgeon and GP via letter or email.