AADO

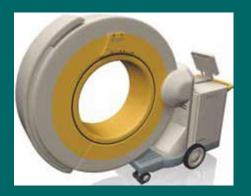
Trauma Series 1

~ Spinal Injury Workshop ~

Peri- operative Management of Patient to undergo Spinal Surgery

22nd – 23rd February 2014

Joyce Lai WM OT/A&ICU PWH



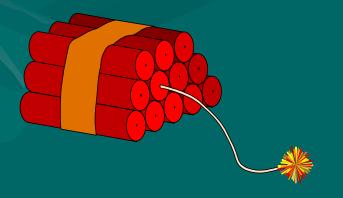
















Risk Management



Risk Management

identification

assessment

prioritization of risks



Objectives

• Minimize risk

• Monitor result



 Control the probability and/or impact of unfortunate events



SURGICAL SAFETY CHECKLIST





Date and Time	
Date and Time	

Patient Addressograph

Before induction of Anaesthesia トラウトウト		Before skin incision ママウマウマウマウマウウウ		Before patient leaves operating room ⇔⇔⇔⇔⇔			
SIGN IN		TIME OUT		SIGN OUT			
0	Patient has Confirmed	☐ Confirm all team members have introduced themselves		Nurse Verbally Con	firms with the Team:	:-1	
	• IDENTITY	By Name and Role		The Name of the Pro	ocedure Recorded		
	• SITE	☐ Surgeon, Anaesthesia Professional and Nurse Verbally Confirm					
	PROCEDURE	• PATIENT		Instrument, Sponge	and Needle Counts a	are Correct	
	 CONSENT 	• SITE		(or Not Applicable)			
	Site Marked / Not applicable	 PROCEDURE 					
0	Anaesthesia Safety Check Completed / Concentration &	Anticipated Critical Events		How the Specimen i	s Labelled		
	Dosage of Local Anaesthesia (LA)	☐ Surgeon Reviews: What are the Critical or Unexpected Steps,		(Including Patient Name)			
0	Pulse Oximeter on Patient & Functioning	Operative Duration, Anticipated Blood Loss?					
	Does Patient have a:	☐ Anaesthesia Team Reviews: Are there any Patient - Specific		Whether There are any Equipment Problems to be			
	Known Allergy?	Concerns?		Addressed			
	NO	□ Nursing Team Reviews: Has Sterility (including indicator					
	YES	Results) been confirmed? Are there equipment issues		☐ Surgeon, Anaesthesia Professional and Nurse Review			
	Difficult Airway / Aspiration Risk?	Or any concerns?		The Key Concerns for Recovery and			
	NO	Has Antibiotic Prophylaxis been given within the last 60 mins?		Management of this	Patient		
	YES, and Equipment / Assistance Available	□ YES					
	Risk of > 500 ml Blood Loss (7 ml/Kg in Children)	□ NOT APPLICABLE					
	NO	Is Essential Imaging Displayed?					
0	YES, and Adequate IV access & Fluids Planned	☐ YES					
		□ NOT APPLICABLE					
	Anaesthetist OR Nurse	Surgeon Anaesthetist OR Nurse		Surgeon	Anaesthetist	OR Nurse	
Signature		Sign	nature				
Signature Name or		No	me or				
Name or Staff ID Staff ID			ff ID				

THAT IS ALL?

Risk Risk Risk Risk Risk Risk Risk Risk

Risk Risk Risk Risk

Poor Positioning

- Injury
- Bleeding
- Prolong Surgey

SSI

How to minimize the risk

Good Nursing Care

• Safe Culture

Documentation



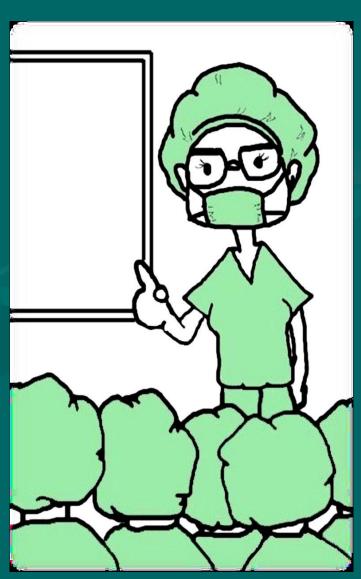
Peri-operative Care

Preparation

What we prepare for?

Why we should prepare?

What we should prepare?



What we prepare for?

We prepare for the **Patient**

NOT only for the surgery

Why we should prepare?

- To ensure safety & wellness of our patient
- To facilitate smooth running of the surgery
- To guarantee success of the planned surgery
- To encourage cost effective management
- To enhance collaborative working climate
- To protect all the ORP



What we should prepare?

- Preparation of patient & relatives
- Preparation of ORP
- · Preparation of environment, theatre set-up
- Preparation of appropiated OT table
- Preparation of Patient Positioning
- Preparation of instrument & equipment
- Preparation of Inventory

ORP Preparation

- ORP Communication/knowledge (Team)
 - Surgeon
 - Nurse
 - Anaesthetist
 - Radiographer
 - POP technician



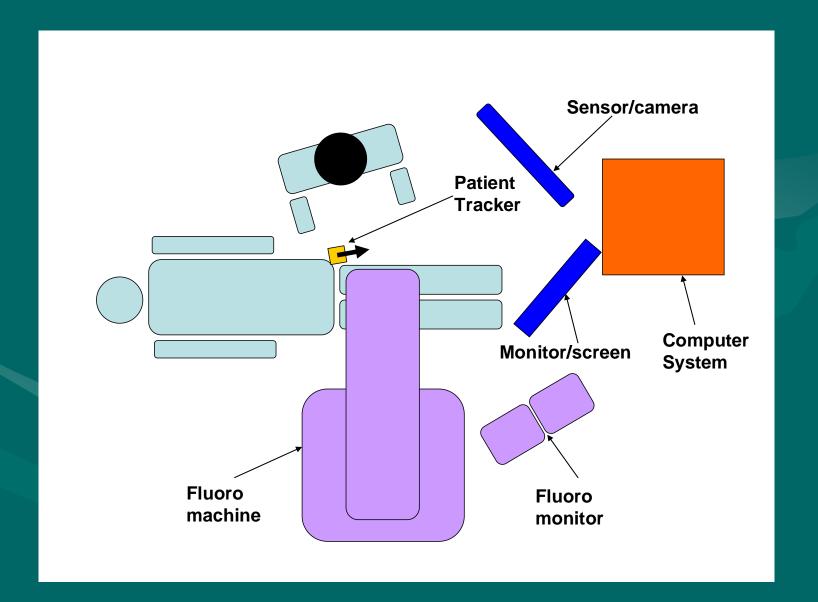
Environment/Theatre setup

According to the operation

More space for fluroscope, navigation and/or video assisted surgery

Arrange all necessary equipment to move in the theatre before starting of the procedure

Operating room setup



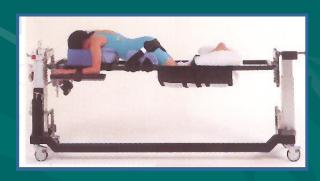
Operating Table

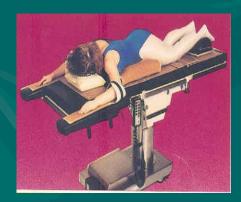
According to the surgery & positioning of the patient







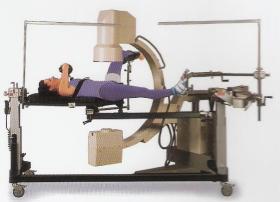










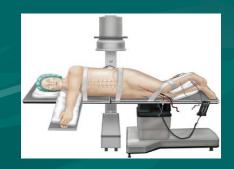




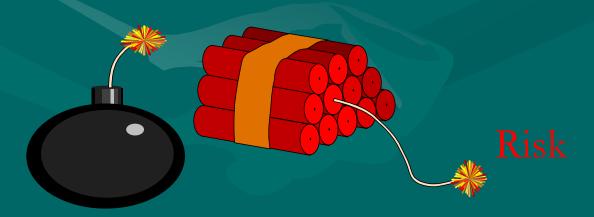
Patient Positioning

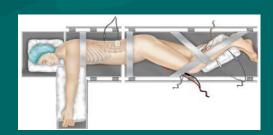
• Depends on the type & approach of the surgery

• Communication is very important



Mark on the list by chief surgeon





Types of position

Posterior approach

Cervical Prone with head

support

Thoracic & lumbar
 Prone

Anterior approach

Cervical Supine with neck

extension

Thoracic / thoraco-lumbar Lateral

•Lumbar 45° tilting

•L5-S1 Supine

Good Positioning

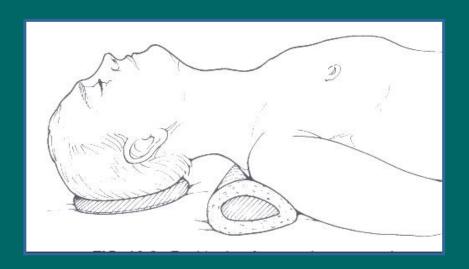
Patient

Surgeon

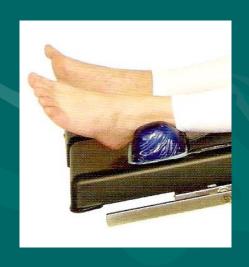
Anaesthetist

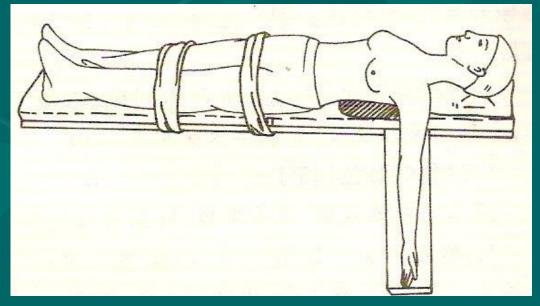
ORP

Pressure Release

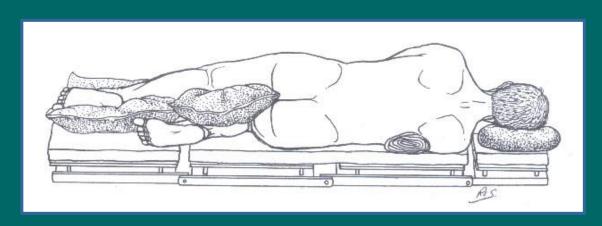


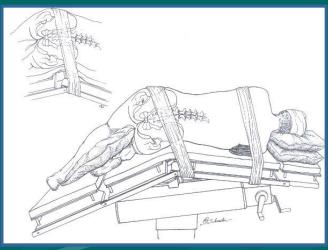


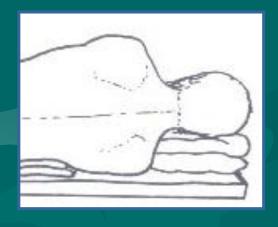


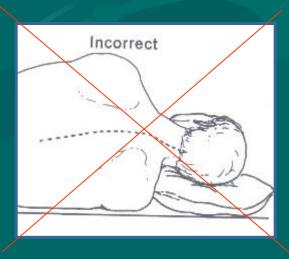


Pressure Release

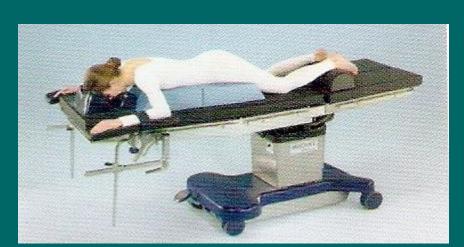


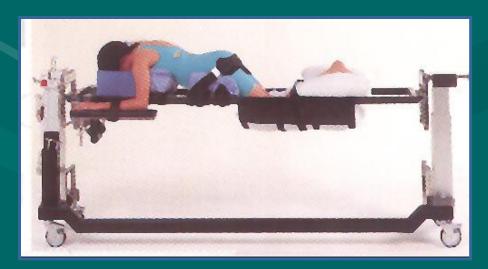


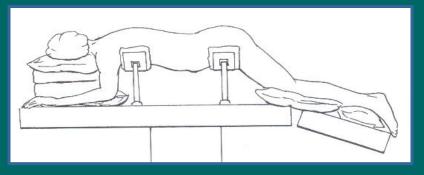


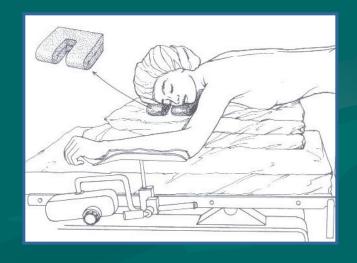


Pressure Release Pressure Release Pressure Release





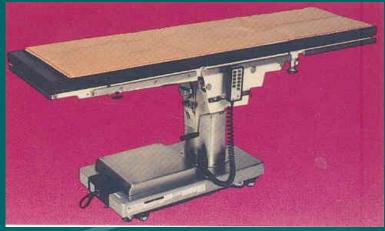




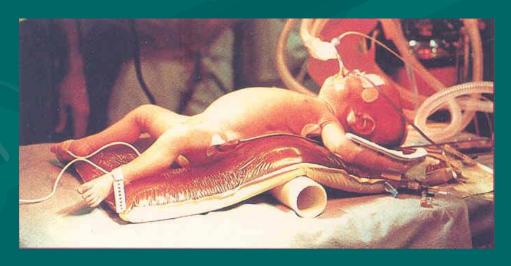


Device for pressure release











Case Sharing

Positioning for

spinal surgery



Protection to pressure area







Assessment



Enough Man Power













Prevention of SSI











Draping

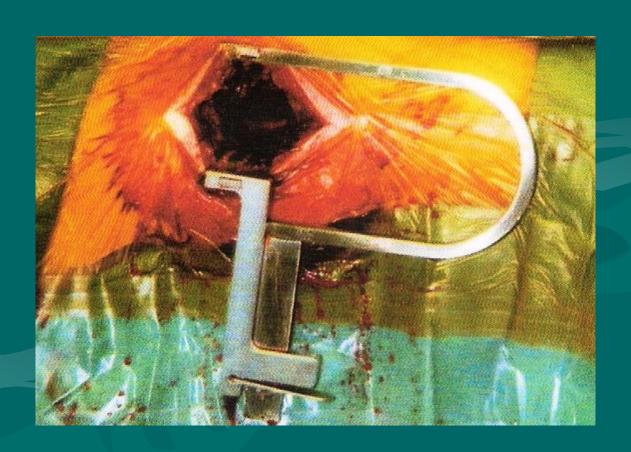




Surgical Technique

What does it means?

Proper use of retractor



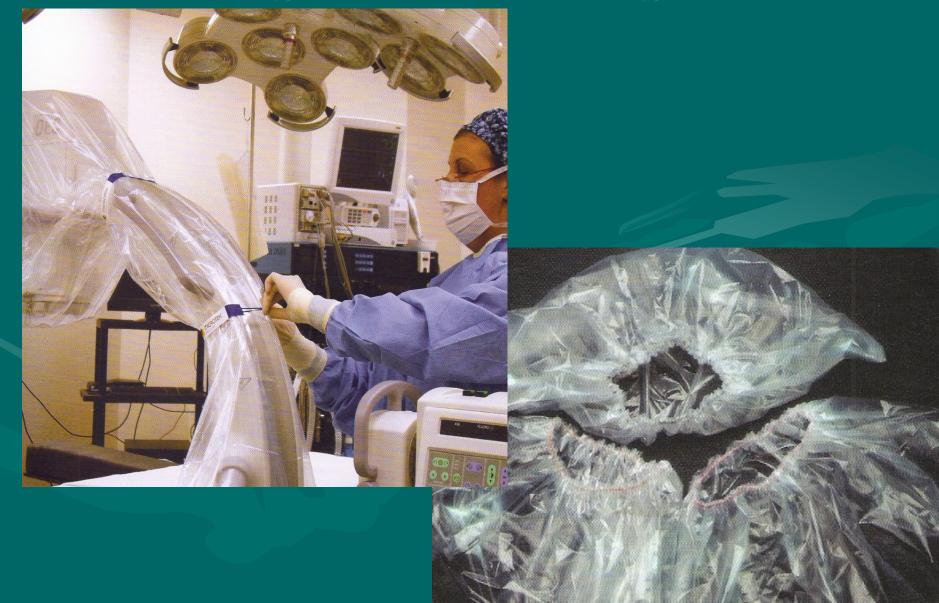
Use of Drain



Choice of dressing



Drape for Fluoroscope



Drape for Fluoroscope

C-ARM Draping Guideline







Equipment

- +/- X-Ray Machine (+/- Phantom)
- Sofe ware must compactable with the navigation system

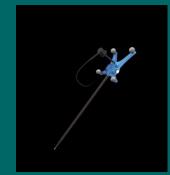


Equipment

- Computer and monitor
- Camera to receive signal



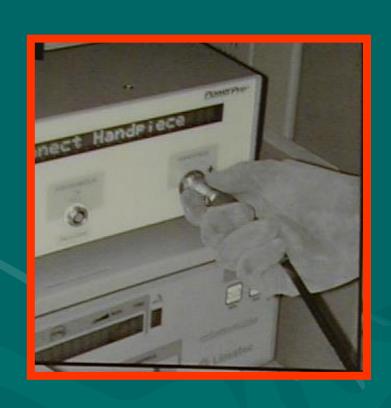




Don't forget your radiation protection



Power Console / Battery / Pneumatic Supply





Use of Cell Saver



Instrument

- Basic Instrument
 - Retractor
 - Roungeur
 - Dissector
 - C&O
- Instrument for special instrumentation
- Loan instrument

Consumables/Inventory

Drapes

• Reflective Markers

Implants



THANK YOU



