

# **OPERATION THEATRE**

# BACKGROUND



- UMMC has a 16 operating theatre equipped with 4 mobile C-arm Fluoroscopy and mini c-arm for hand surgery.

# Equipment



4 OEC Fluorostar 7900 mobile  
C-arm

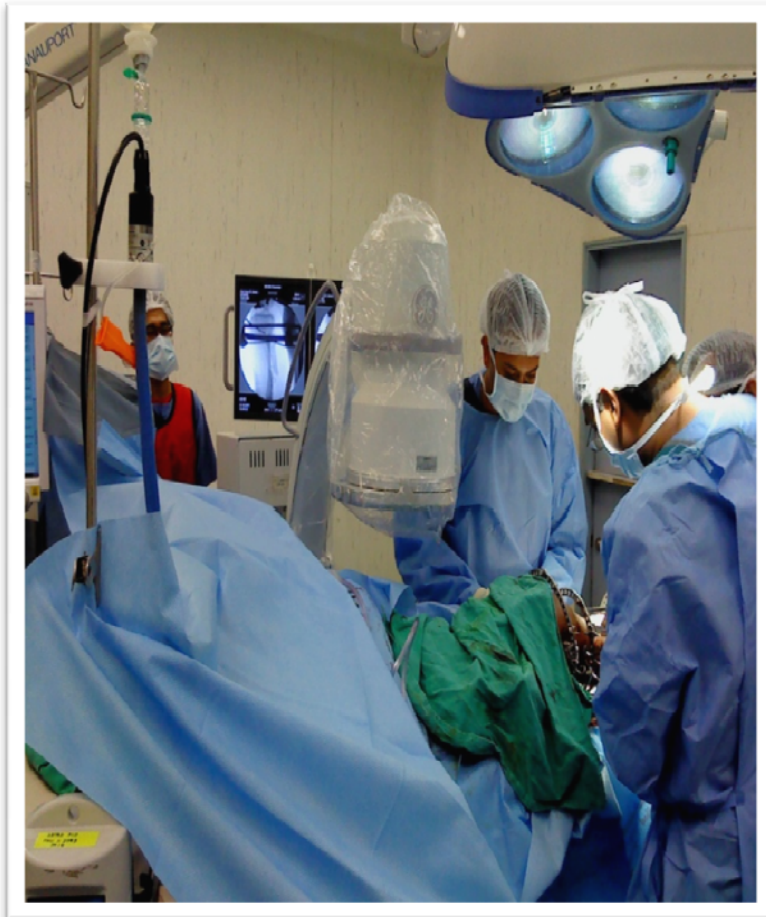


Mini c-arm mobile for orthopedic hand  
surgery manufactured by Hologic

- Know operating theatre staff
- Know the operating theatre rules
- Assume everything and everyone is sterile
- Know the image intensifier
- Know the procedure
- Cover/drape II
- Watch the surgeon's eyes when screening
- Be careful when moving C-arm
- Radiation protection



# OT RADIOGRAPHER



- Assist surgeons during operations with special X-ray equipment known as image intensifier (II)
- It requires confidence, technical skill and the ability to work as team

# HOW TO BE A GOOD RADIOGRAPHER

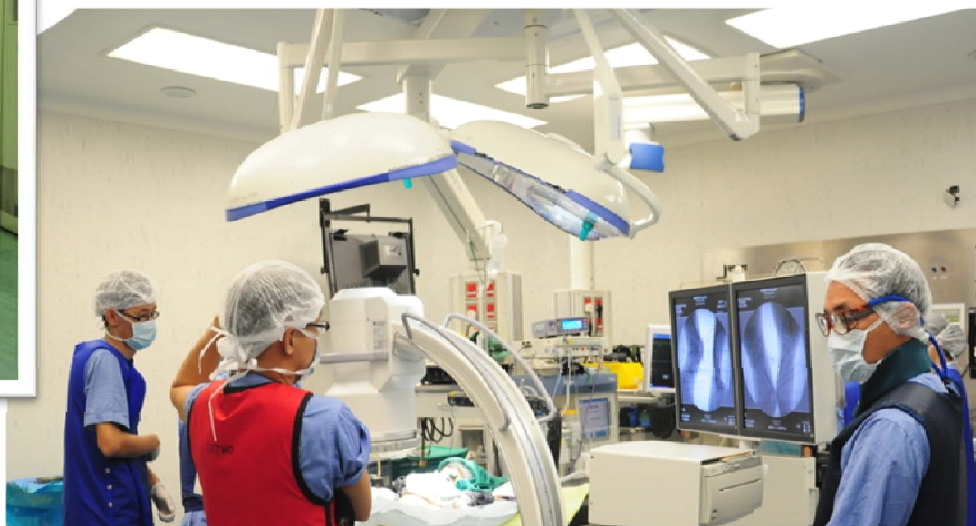


- Radiographers work with x-ray equipment and other imaging equipment to take detailed internal pictures of the human body.
- Becoming a radiographer requires much effort and planning; however, if you have good academic skills, good attention to detail, and the ability to help others feel at ease, radiography could be a good career for you.

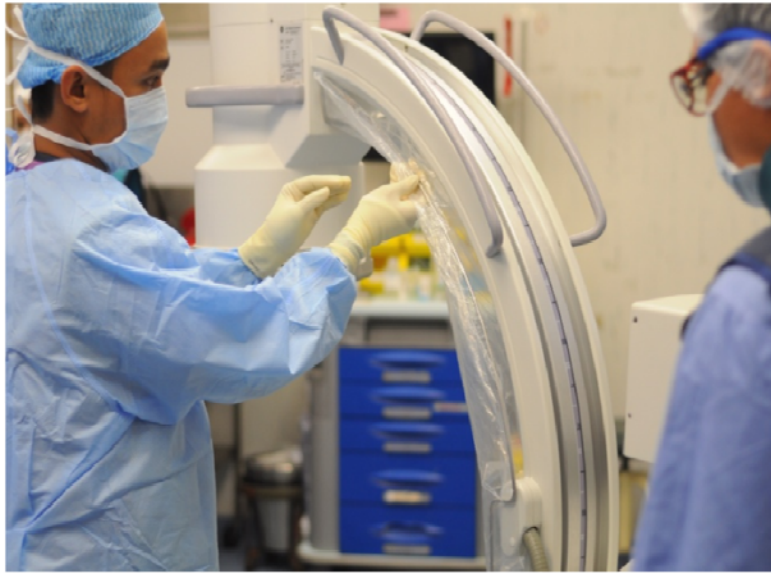
# WHAT DOES A RADIOGRAPHER DO?

- Operate special equipment such as Image intensifier equipment - produce X-ray images in a operation theatre (OT)
- Orthopedic surgeons need to use mobile C-arm Fluoroscopy to check for proper reduction of fractures in OT.
- Although the majority of Fluoroscopy in OT are taken for orthopedic cases there are some imaging needs for the general surgeons, neurosurgeons, ENT doctors and urology surgeons.





# Procedure



The C-arm has to be covered with a sterile sheet. The radiographers do not handle the sterile objects, the surgeon or the scrubbed nurse does the positioning.



We perform some special radiography procedures such as orthopedics, urethrograms, cystograms, cholangiography, etc.

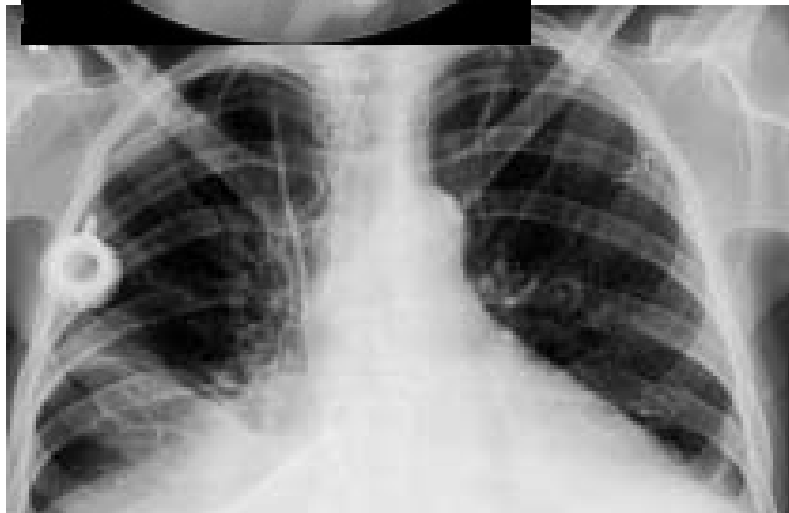
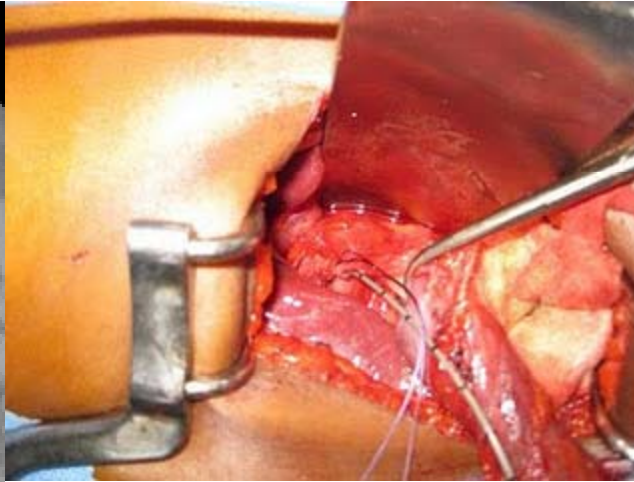


## Orthopedics -Traumatology

## General Surgery



# General surgery



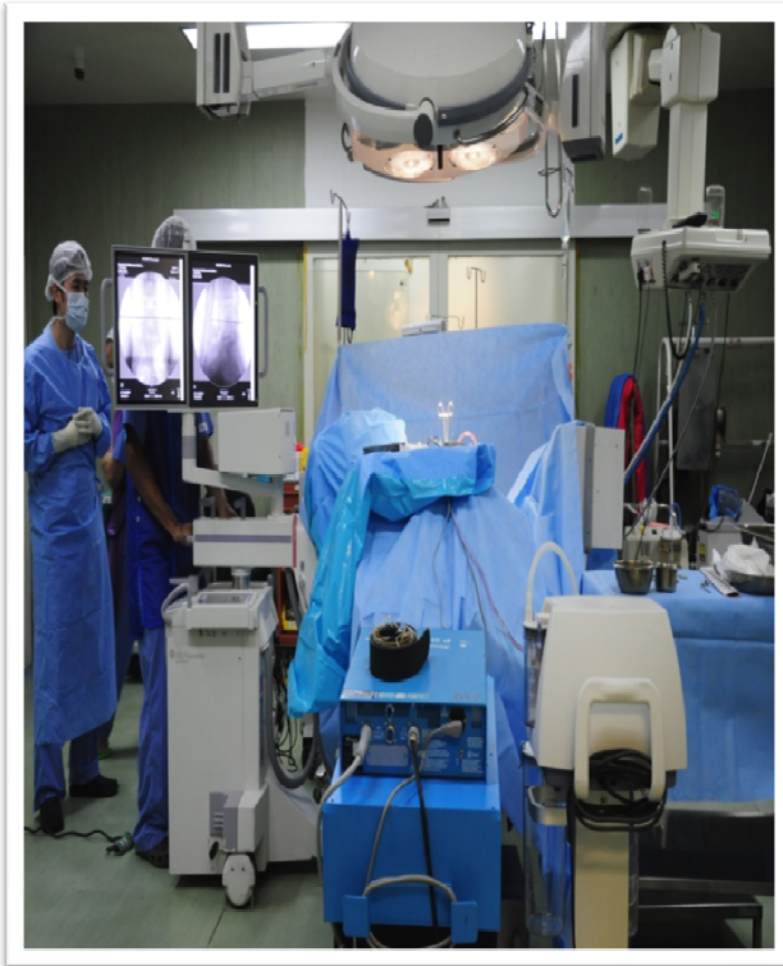




# Neurology



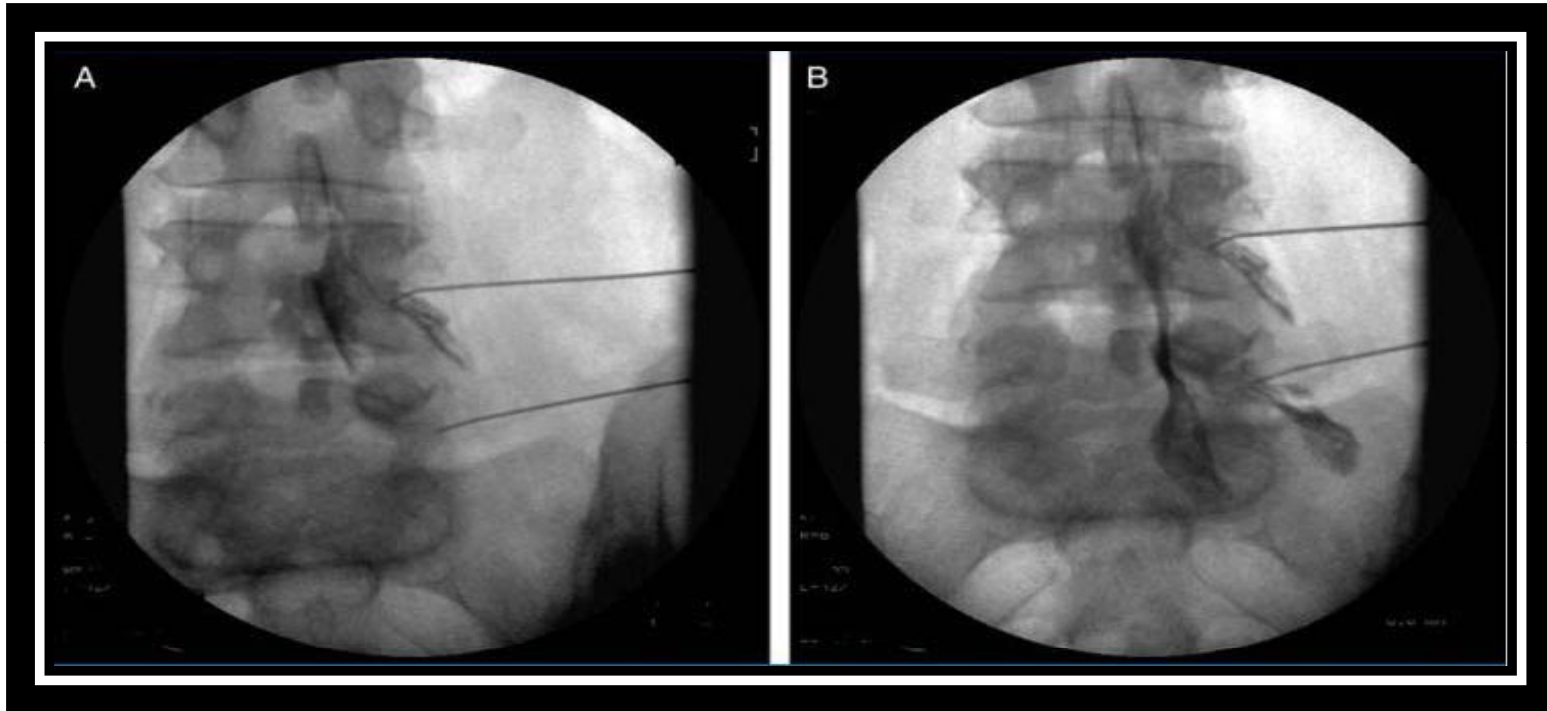
# Other procedures performed in Operation Theatre



## **Nerve Root Injection**

- Anesthetic and steroid solution towards the nerve as it exits the spinal canal. This is done under image intensifier to deliver the drug to the precise location.
- **What are the benefits of a nerve root injection?**  
Nerve root injections can reduce inflammation of the nerves and provide pain relief.

# CONT...



(A) Lumbar transforaminal epidural injection at L4/5 and L5/S1 levels. The tip of the 22 G needle is positioned below the pedicle lateral to the 6° clock position of the L4 pedicle. Contrast injection shows the dye spreading into the epidural space and along the L4 nerve root. (B) Lumbar transforaminal epidural injection at L4/5 and L5/S1 levels. Contrast spread is seen on the right side of the epidural space and along the right L4 and L5 nerve roots.