



Introduction to the Operating Room

MI133

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The Surgical Team

Sterile Members

- Surgeon
- 1st Assistant:
 - Another surgeon
 - Surgical Resident
 - Physician's Assistant
 - O.R. R.N.
- Certified Surgical Technologist



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The Surgical Team

Non-Sterile Members

- Anesthesia:
 - CRNA – Certified Registered Nurse Anesthetist
 - Anesthesiologist (MD)
- Circulator (RN)
- Equipment Rep
- Radiographer
- Students
- Others (ex. Pulmonary specialist, neuromonitoring)



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O.R. Attire

Radiology Specific Surgical Attire

- Scrubs
- Masks (surgical)
- Bouffant/ Hair caps
- Shoe covers
- Eyewear
- Gloves



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4





A

Start with adjusting nose 'clip'



B

Top strings positioned at crown and tie securely



C

Bottom strings at nape of neck and tied securely



D

Unfold mask folds fully

Page 5

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What's wrong with this picture??

Page 6

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Remove face masks by touching **strings only** – deposit into trash by the strings.
(Face part of mask will have contaminates on it from surgery)



Page 7

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All hair must be covered completely by the cap or bouffant.

- Any facial hair must be completely covered (may require a beard cover or 'hood')



Page 8

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O.R. Attire – Best Practices

Best practice is to keep bouffant/ cap on throughout the day, even outside of OR.

- Prevents hair from falling onto scrubs

Best practice is to have “OR only” shoes to prevent spreading contaminates.

- Next best option: wear the OR covers over shoes to protect them. Covers worn in OR only. Remove covers and wash hands before walking back to dept.

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O.R. Hygiene

All people carry bacteria!



- Radiographers should wear gloves if their equipment comes in contact with bodily fluids or while cleaning up afterwards
- Anyone (sterile or non-sterile) with an acute illness should not enter the surgical suite
- Never wear scrubs out of the building and then back into the Surgical Suite

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The Sterile Field

Surgical Asepsis



- The prevention of microbial contamination before, during and after surgery using sterile technique
- Maintained through environmental control
- Surgical site infections affect nearly 3% of all surgical patients every year
 - Increases hospital stay by 7 days
 - Creates increased financial burden to patient and hospital

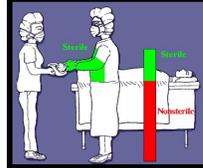
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- Sterile gowns **are** considered sterile:
 - In the front from shoulder level of chest to the level of the sterile field
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Exception:

- Toga gowns are considered sterile in the **front and back**



TotalShield®
Surgical Toga

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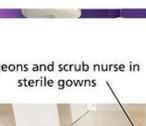
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Surgeons and scrub nurse in sterile gowns

Sterile covers over microscopes and x-ray machines

Sterile covers on light handles

Operating table covered in sterile drapes

Sterile instrument trolleys

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Radiographer's Responsibilities

3. Never move equipment across the sterile field unless appropriately covered with sterile drape.



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Radiographer's Responsibilities

4. Never enter the "sterile corridor" with un-sterile equipment or your body.

Sterile corridor = any space between two sterile fields.

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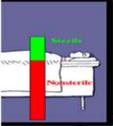


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Lead Shields



- Must be worn by ALL staff members during an OR case while exposing
 - **X-ray techs** are **responsible** for making sure everyone in the room during a case is properly shielded
 - Watch for any non-sterile team member who might remove their lead during the case
- Weigh between 10 - 12 lbs.

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Maintenance:

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C-arms

C-arms

- Mobile image intensifiers used primarily for **fluoroscopic imaging** during surgical, orthopedic, critical care, and emergency care procedures



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C-arms



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C-arms

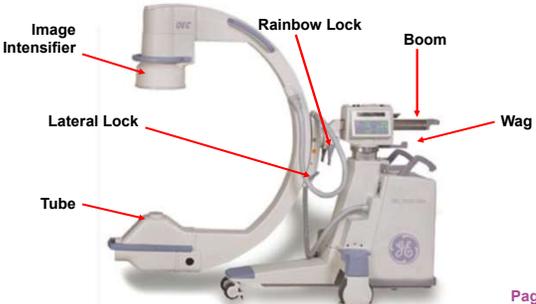


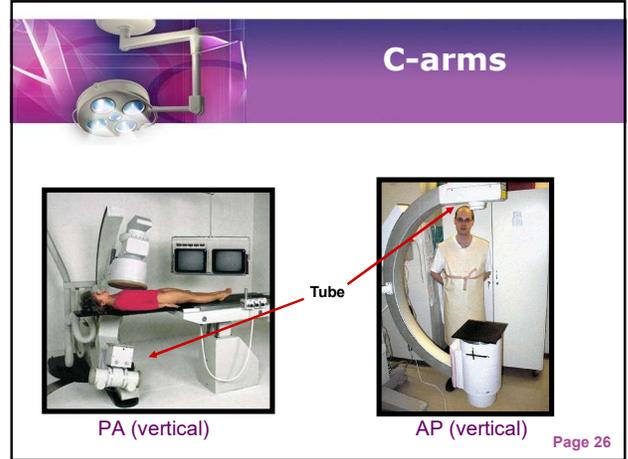
Image Intensifier
Rainbow Lock
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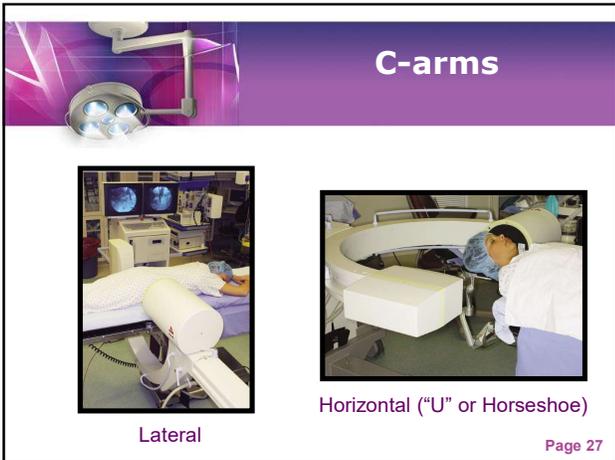
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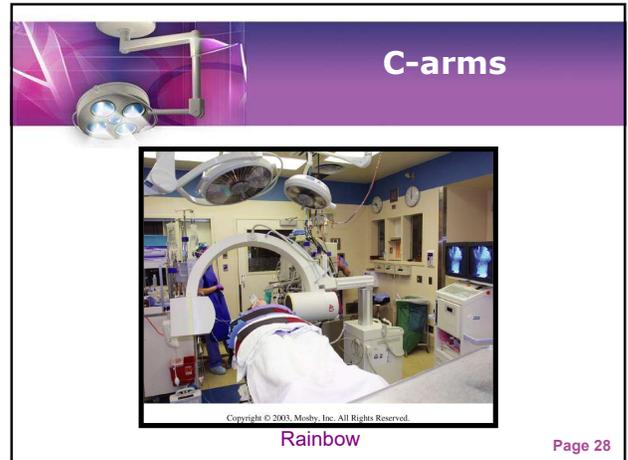
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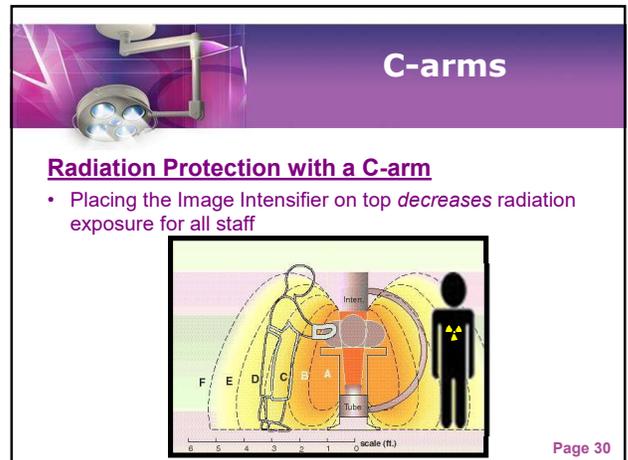
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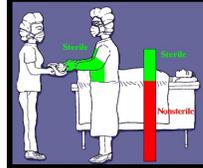
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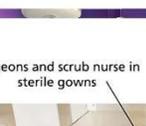
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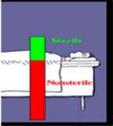


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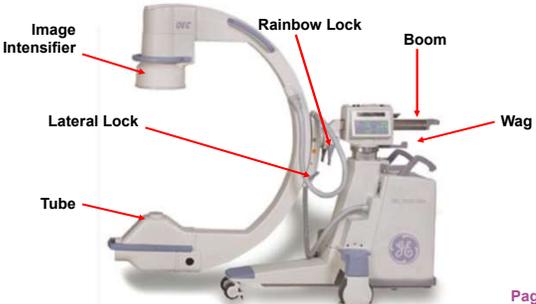


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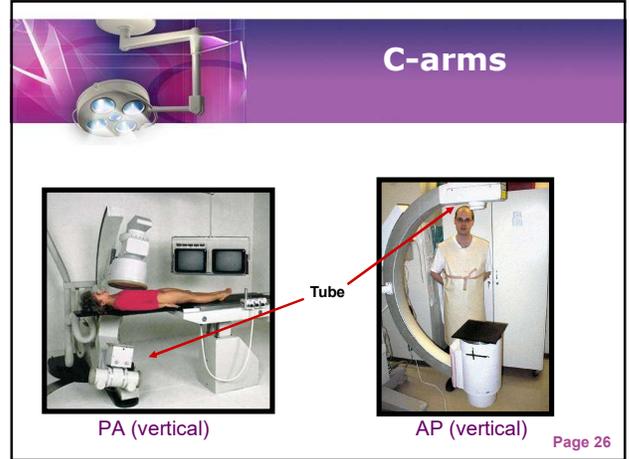


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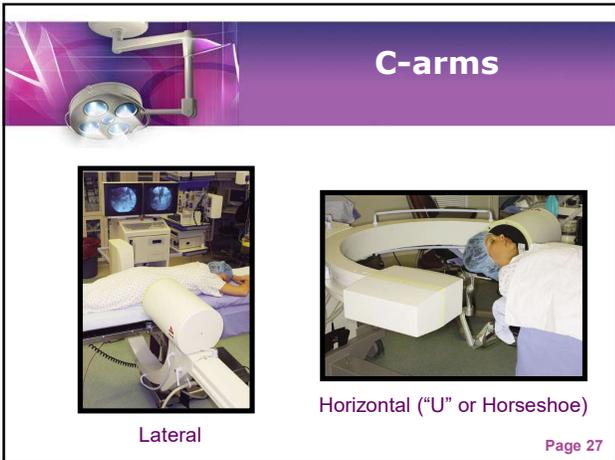
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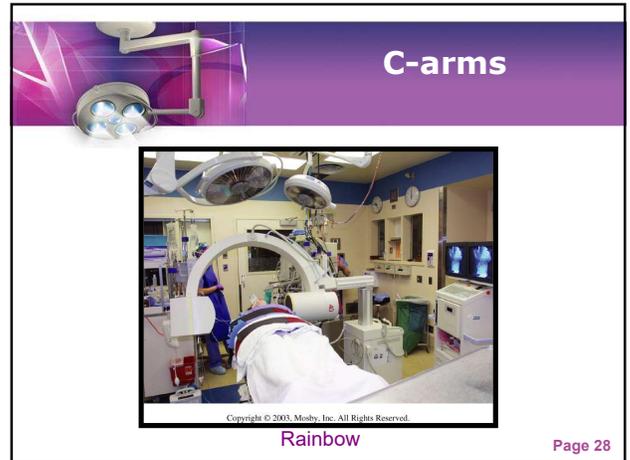
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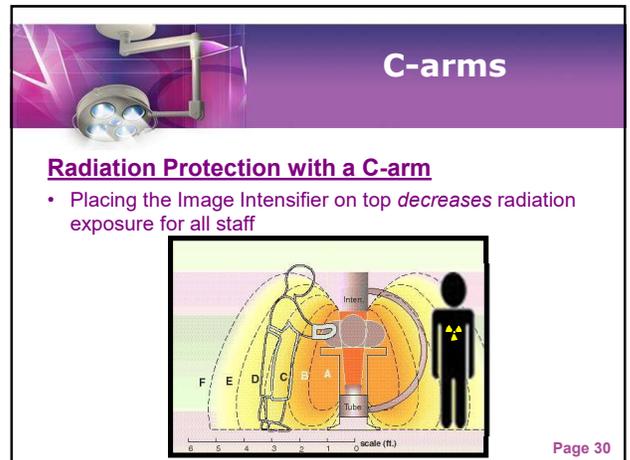
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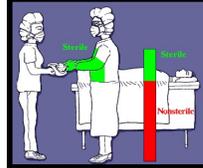
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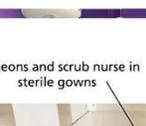
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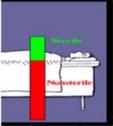


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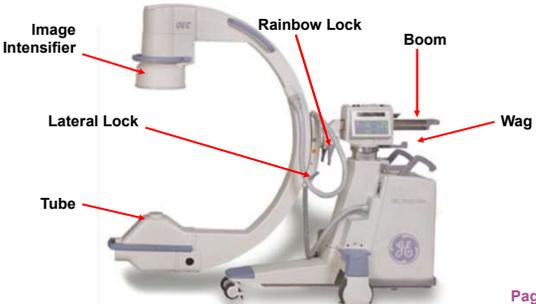


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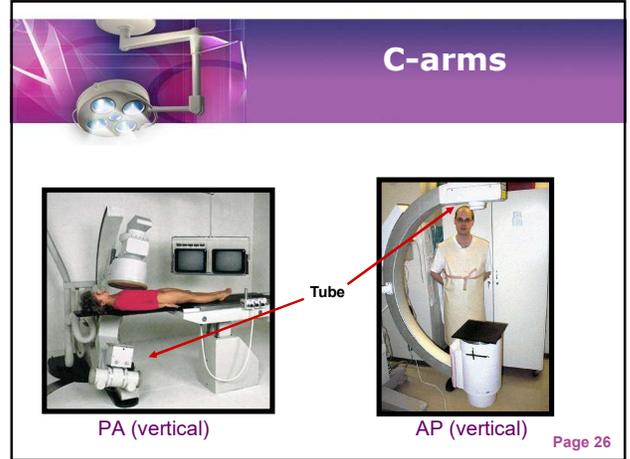


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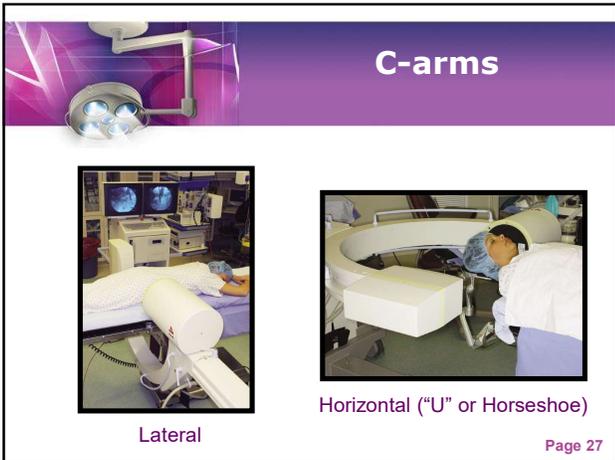
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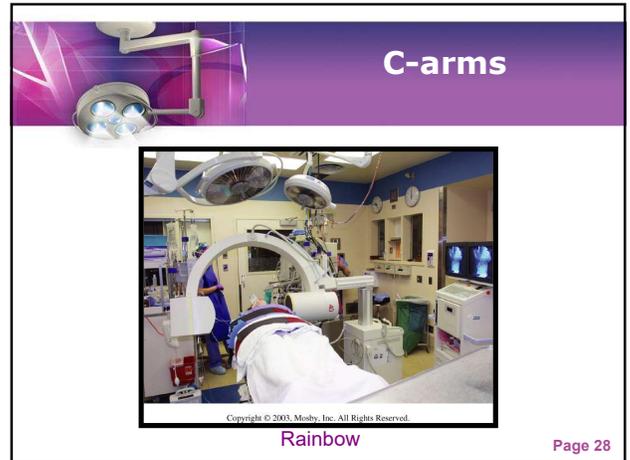
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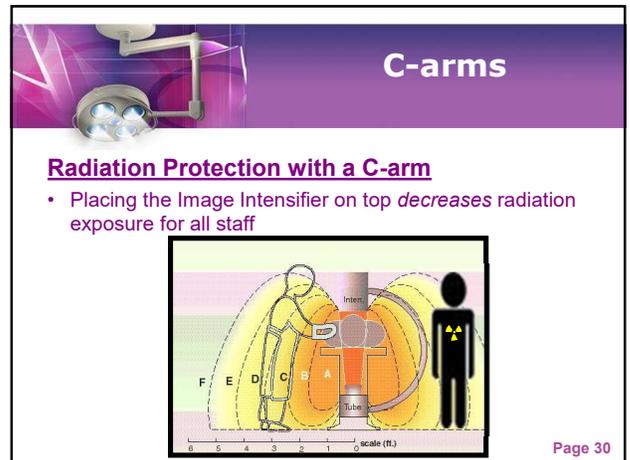
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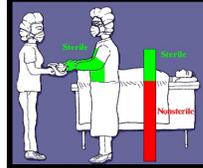
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- Sterile gowns **are** considered sterile:
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Exception:

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TotalShield®
Surgical Toga

Page 13

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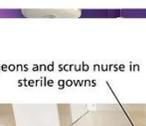
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Sterile covers over microscopes and x-ray machines

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Operating table covered in sterile drapes

Sterile instrument trolleys

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Radiographer's Responsibilities

3. Never move equipment across the sterile field unless appropriately covered with sterile drape.



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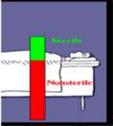


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- Must be worn by ALL staff members during an OR case while exposing
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C-arms

C-arms

- Mobile image intensifiers used primarily for **fluoroscopic imaging** during surgical, orthopedic, critical care, and emergency care procedures



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C-arms

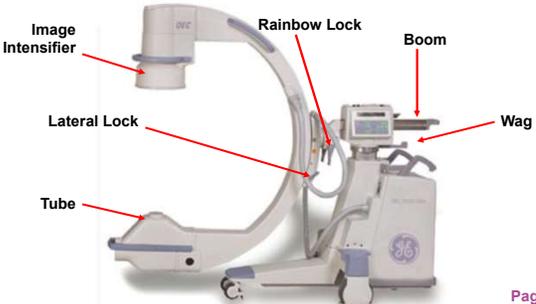


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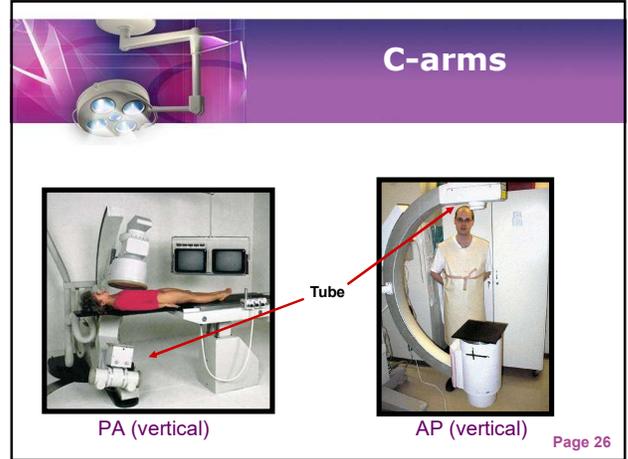


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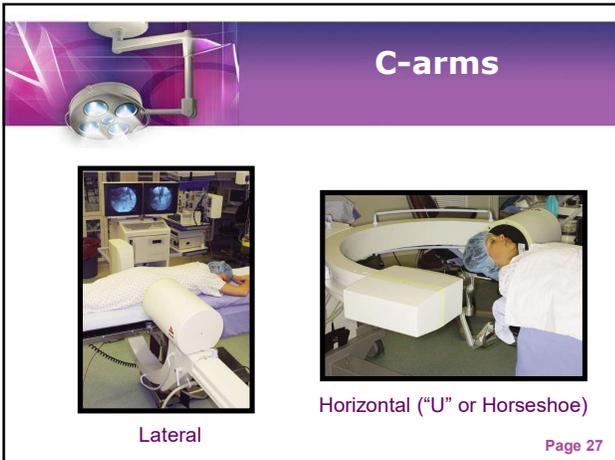
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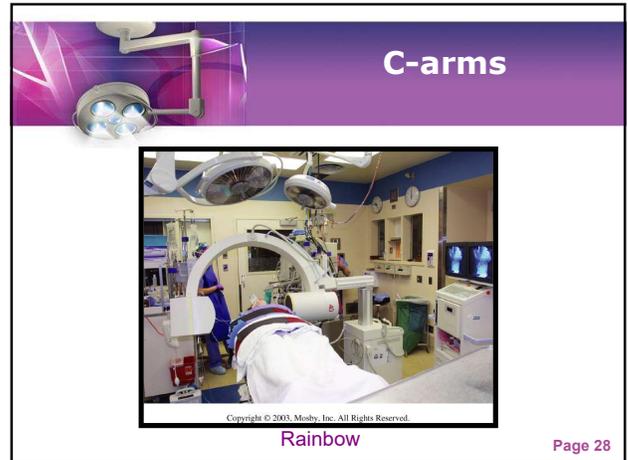
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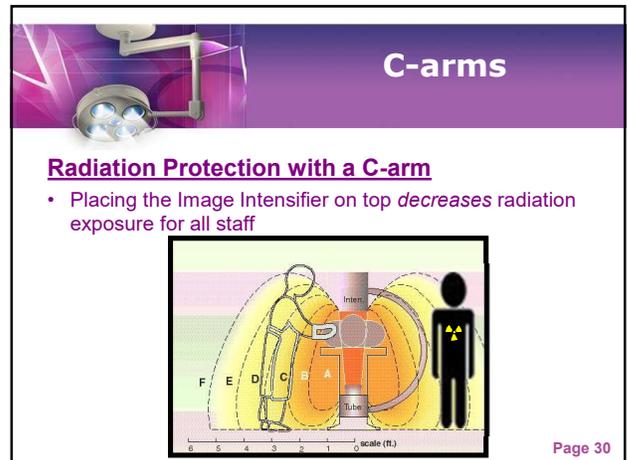
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C-arms

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Introduction to the Operating Room

MI133

Page 1

1



The Surgical Team

Sterile Members

- Surgeon
- 1st Assistant:
 - Another surgeon
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 - O.R. R.N.
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Non-Sterile Members

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- Students
- Others (ex. Pulmonary specialist, neuromonitoring)



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3



O.R. Attire

Radiology Specific Surgical Attire

- Scrubs
- Masks (surgical)
- Bouffant/ Hair caps
- Shoe covers
- Eyewear
- Gloves



Page 4

4





A

Start with adjusting nose 'clip'



B

Top strings positioned at crown and tie securely



C

Bottom strings at nape of neck and tied securely



D

Unfold mask folds fully

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What's wrong with this picture??

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Remove face masks by touching **strings only** – deposit into trash by the strings.
(Face part of mask will have contaminates on it from surgery)



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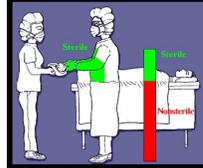
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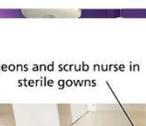
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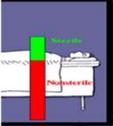


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C-arms

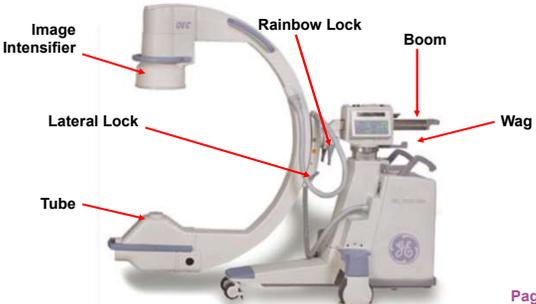


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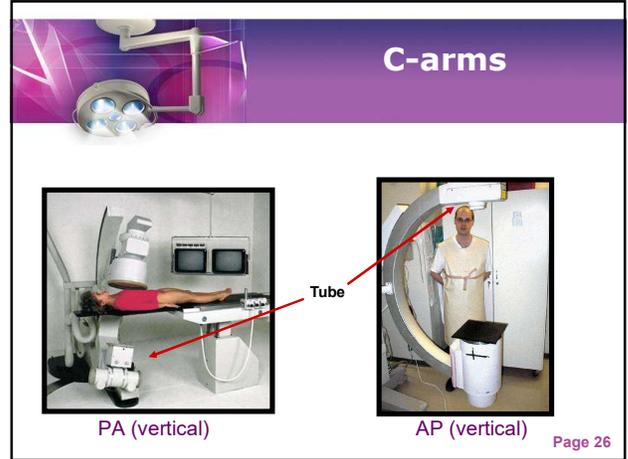


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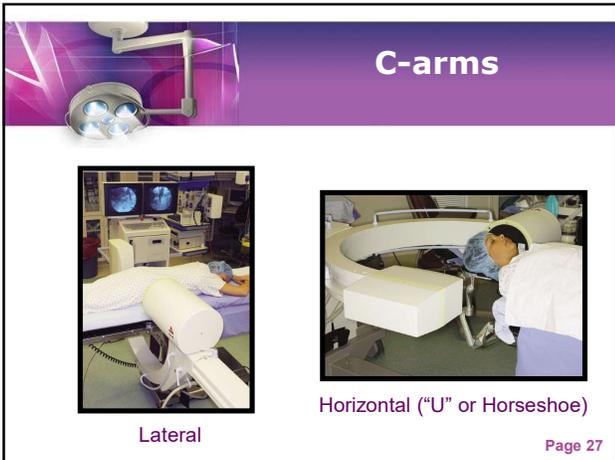
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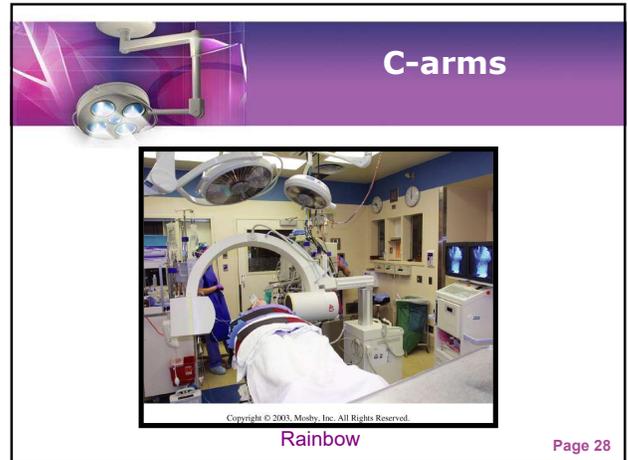
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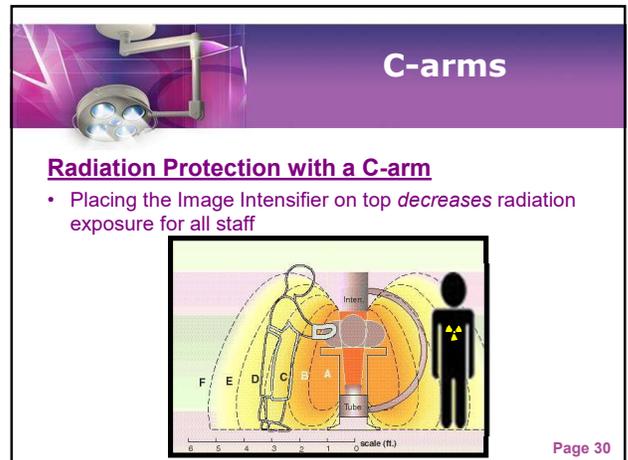
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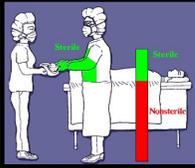
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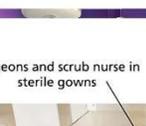
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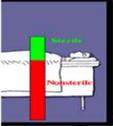


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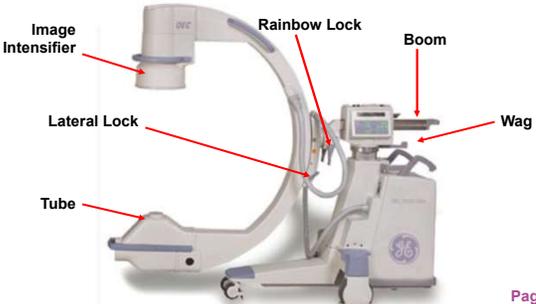


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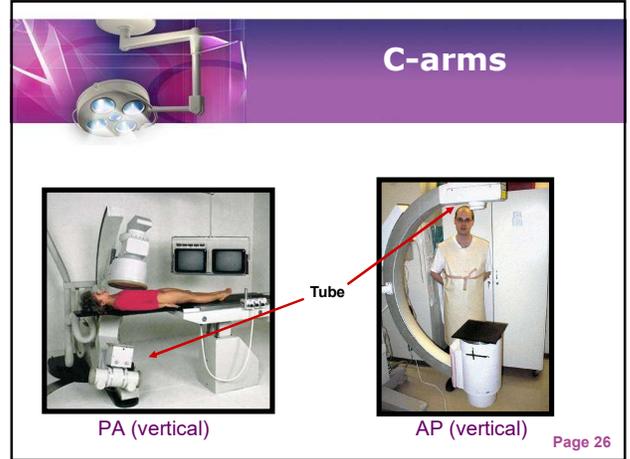
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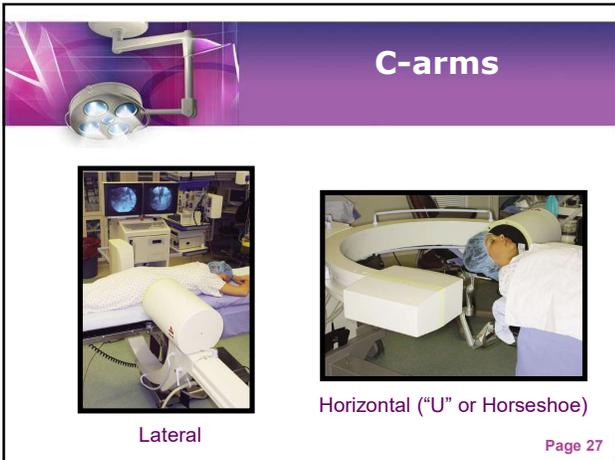
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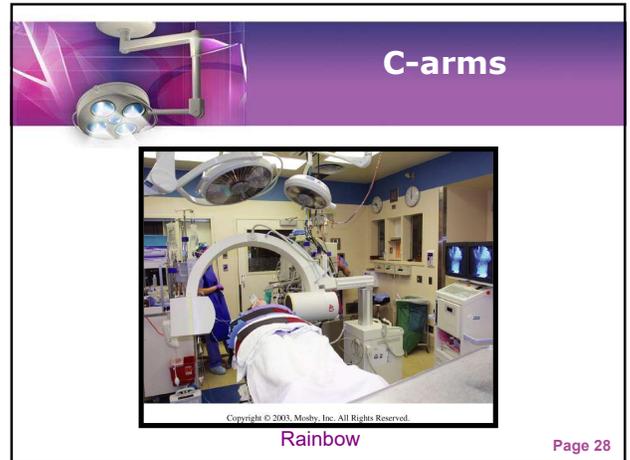
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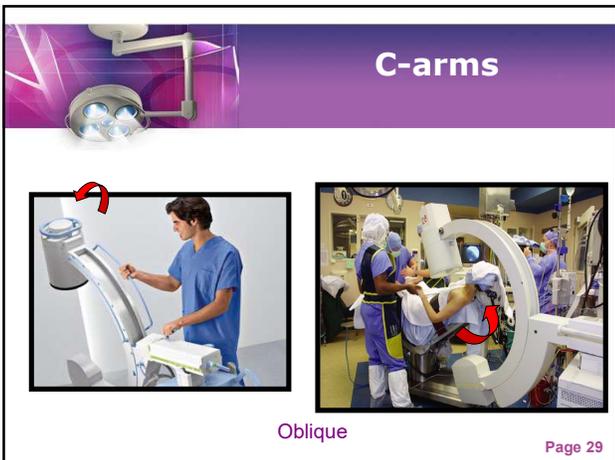
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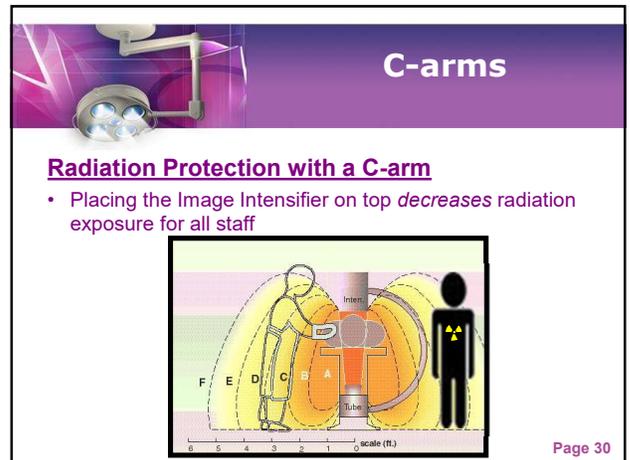
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