



### A LITTLE MORE ABOUT SIMULATIONS

- Medical team creates a customized plan to pinpoint the target area where radiation beams will be focused
  - -CT and MRI scanning that may sometimes involve contrast dye
- -Some cases may require therapists to make a custom mold to help the patient stay in a certain position (Bean bags, frame, masks, bite blocks, plates etc)
- -Marks, permanent dots or "tattoos", and photographs are also part of the simulation process
- **—ABC (Active Breathing Coordinator)** machine is used for immobilization of anatomies affected by respiratory motion, such as the breast and lung

9

### TREATMENT PROCESS

#### **Treatment:**

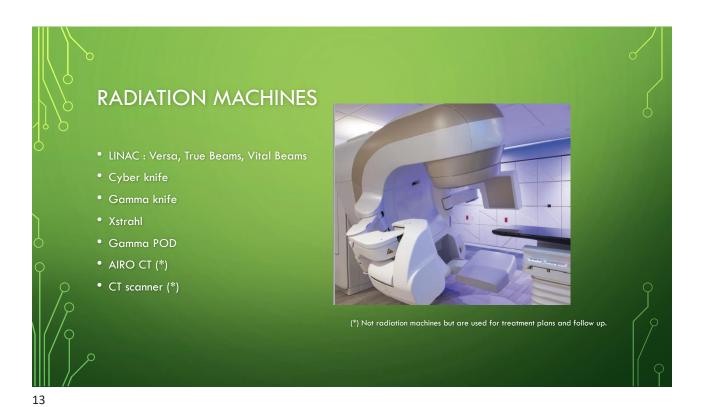
- Interpreters usually requested for the first treatment visit
- Radiation therapists take X-ray images of the area on the body to be treated, which makes the first treatment visit the longest treatment session
- Radiation therapist gives patient treatment calendar and explains treatment procedures on the first treatment visit

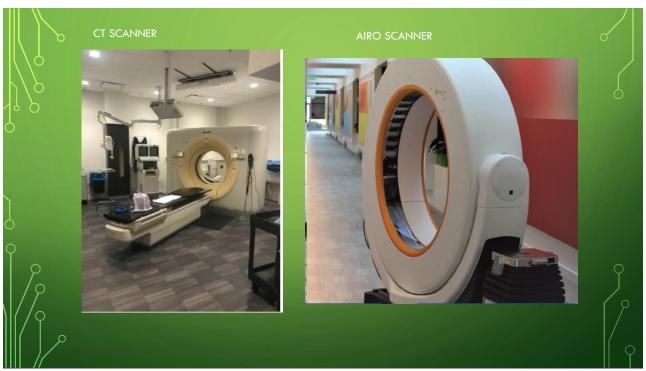
### Weekly Physician/Nurse Visits (OTV)

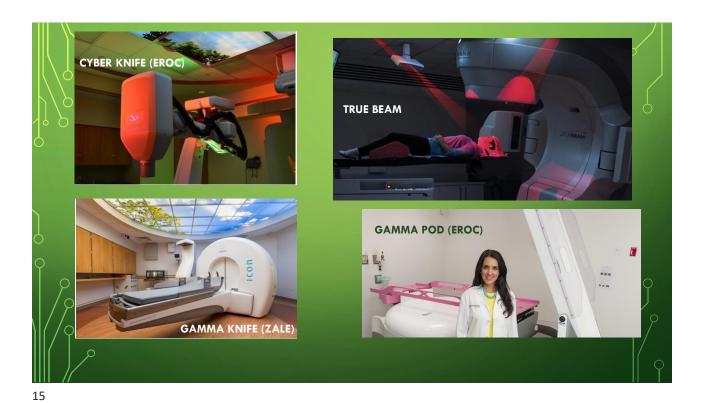
 Patient sees nurse and radiation oncologist in order to evaluate progress, evaluate side effects and ask any questions about treatment

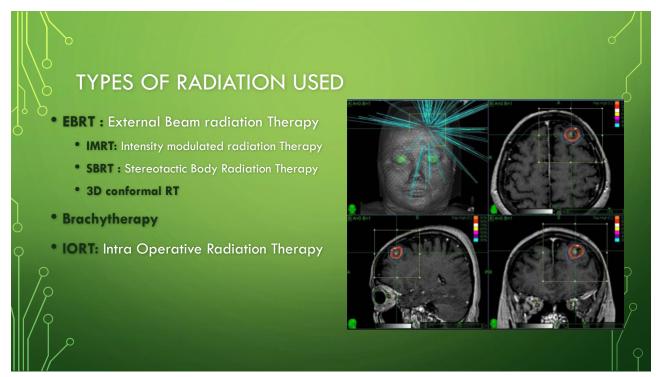












# COMMON TERMINOLOGY **Breast:**

- Diagnosis: DCIS, LCIS, Paget's disease, ILC, Breast cancer
- BRCA1, BRCA2

### • Gyn:

- Diagnosis: Squamous cell carcinoma of cervix (80%), Adenocarcinomas (10%), CIS, Small cell carcinoma of the cervix., Vaginal cancer, Vulvar cancer, urethral cancer.
- Procedures: HDR
- Tumor markers: CA-125

# COMMON TERMINOLOGY (CONT...) • <u>G/U:</u>

- Materials: SpaceOAR, Radioactive seeds,
- Procedures: brachytherapy, MRI with rectal coil, TURP, spaceOAR placement
- Therapies: Hormone therapy, Immunotherapy, Flomax (tamsulosin), Terazosin, Finasteride, Bicalutamide (Casodex)
- Diagnosis: Renal Cell tumors, Clear cell tumor, ADC, Carcinoma in situ of the bladder, Prostate Cancer, Seminomas, NSGCT's (teratoma, yolk sac tumor, choriocarcinoma)
- Gleason Score (risk), PSA & testosterone





## MEDICAL TERMINOLOGY (CONT...)

#### • CNS:

- Diagnosis: GBM, Anaplastic astrocytomas, gliomas, meningiomas, brain mets, ependymomas, pilocytic astrocytoma, oligodendroglioma.
- Neurologic terms: Gait, dysmetria, ataxia, aphasia, Lhermitte's syndrome (Rad induced spinal transection)
- Procedures: fundoscopy

### • Lymph:

- Diagnosis: ALL, CLL, Cutaneous T Cell lymphoma (Mycosis fungoides and Sézary syndrome),
  Marginal zone lymphoma (most common in stomach), Hodgkin's and non Hodgkin's lymphoma,
- Medications: CHOP regimen (cyclophosphamide, doxorubicin, vincristine, and prednisone), plus the monoclonal antibody rituximab

21

### MEDICAL TERMINOLOGY (CONT...)

### • Lung:

- Diagnosis: Small cell carcinoma, non small cell carcinoma, squamous cell carcinoma
- Procedures: Thoracocenthesis, pleurodesis, ABC machine, abdominal plate

### • Sarcomas:

- Diagnosis: Bone tumors like: Osteosarcoma, Ewing's sarcoma, Muscle tumors like: rhabdomyosarcomas
- Good knowledge about muscles and bone structures







