

#### **Patient Position**

For the CC: Patient in the "Forward" position – both feet, hips and shoulders facing forward, just like for a CXR.

For the MLO: Patient in the "Forward" position. If doing the LMLO, place the tips of your right fingers on the apex of her rib cage on her thorax directly below her left nipple. Then with your left hand on her back and the right hand on the abdomen (as described above) ask her to take a step towards you while guiding her with your hands (you should be on the medial side of the breast being imaged) until the tips of your fingers on the right hand touch the bottom corner of the IR. The corner of the IR will be lateral to the umbilicus and the IMF in front of the IR.



**Tip #3:** 

#### Nipple in profile



The **Standard of Care** is that the nipple must be in profile **on one of the two screening views** unless there is a question of a subareolar mass.

Recent studies show that additional views done to visualize nipple in profile on both views did not show an increase in cancer detection.



















#### Wide margin of pec on MLO

One study shows that 93% of the time the pectoralis muscle should be visualized with a wide margin in the axilla. There is no data that tells what exact measurement, but I always use this rule of thumb:

The muscle at the axilla should take up <u>at least</u> half of the space between the skin and chest wall and should be wedge shaped.

No science to support me here....just what I have observed. Obviously, due to body habitus, it may be impossible to achieve this (7%) so be sure, as with the concave muscle, to compare with previous. But there are a couple things you **can** do to get a wider muscle:

- Make sure that the **front** corner of the IR is placed just anterior to the latissimus dorsi. Do not place it behind the pec., it needs to be further back in the axilla.
- back in the axilla. If the IR is placed properly, make sure the patient does not "pull out". This can be done by making sure to keep her shoulder forward. If you are doing a LMLO your left hand should be around the patient gently pushing her left shoulder slightly forward, if possible. If you can't get your arm around the patient as described **give her verbal instructions** asking her to not pull her shoulder back.
- If the patient has a narrow or "thin" axilla, try placing the front corner of the IR behind the lat. You may get a few more folds in the axilla, which you can try to remove with your fingers after compression but will get a much wider muscle.

















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SIO: if you want focal compression of a lumpectomy in the LIQ you can do a LM and get the same result. Most techs haven't been taught how to position this properly as they angle the tube and the patient so then it is really just an angled LM after all.



Tip#21:

#### **Breast Reduction**

When performing mammograms on patients who have undergone reduction mammoplasty or a mammopexy (lift):

Use a 35 degree angle on the MLOs. This will increase visualization of the pectoralis muscle. When the breast was lifted on the chest wall (which occurs in both procedures) the medial, inferior portion of the muscle will, most likely, be excluded. The lesser degree helps to compensate for this.





#### **Tip #23:**



## Use the machine design to your advantage!

Many ergonomic changes have been made to the resent equipment designs. If you have them....use them to your advantage!

- Push the face shield back, especially when positioning for the MLO.
- If you can move the tube head when positioning for MLO, do it!
- Use foot pedals whenever possible, especially to activate the collimator light!
- Keep foot pedals directly under your feet. No lunging!





#### CC to avoid wrist/hand injuries.

Many technologists suffer pain and injury to their hands and wrist after performing mammography over time. This can be reduced, avoided or eliminated by using proper ergonomics when positioning for the CC:

- Stand on the medial side of the breast being imaged.
- Keep your hands flat when pulling the breast on use your palms, not your fingers.
- Anchor the breast with base of your thumb at the 12:00 position. Your thumb should be relaxed and slightly parallel to your index finger.
- Your thumb should NOT be anchoring the medial breast!
  Pictures and instructions of ergonomically positioning techniques can be found on our Resource page (www.mammographyeducators.com) There is an article on the topic published in the SBI Newsletter this year.



E D U C A T O R S

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#### **31 Daily Tips for Breast Cancer Awareness Month Tip #26:** Use proper ergonomics for the MLO to avoid multiple injuries Many technologists suffer pain and injury to many body parts (especially shoulder problems!) after performing mammography over time. This can be reduced, avoided or eliminated by using proper ergonomics when positioning for the MLO: Stand on the medial side of the breast being imaged. Keep your hands flat when pulling the breast on - use your palms, not your fingers. Your thumb should be relaxed and adjacent to your fingers. Your thumb should NOT be anchoring the medial breast! Pictures and instructions of ergonomically positioning techniques can be found on our Resource page (www.mammographyeducators.com) There is an article on the topic published in the SBI Newsletter this year.





**Tip #29:** 

- **Dealing with Stress**

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If you are having a "**one of those**" **days**, log onto the QBI FB page and read many posts where technologists share wonderful stories of how they made a difference in someone's (or many people's) lives. Look at all the survivors. (Many us of are mammo techs!) We, including me, are most likely survivors because of the work that **YOU** do.



