

## EXAMPLES OF MAMMOGRAPHY VIOLATIONS

### **Requirements**

NRS/NAC 457.340 Physician who supervises operation of machine:  
Duties. The physician who supervises the operation of a machine at a facility for mammography shall:

1. Prepare a manual of procedures for the operation of the machine.
2. Review and update the manual as required, or at least every 6 months. A Record of the review and update must be prepared and kept at the facility.
3. Observe and prepare a record of the performance of each mammographer at the facility to ensure that he performs his duties in accordance with the manual of procedures described in this section and in compliance with the requirements of NAC 457.200 to 457.480, inclusive. Such an observation must be conducted at least every 6 months.
4. Ensure that each mammography at the facility has successfully completed the training required by NAC 457.350 and is the holder of a valid mammographer's certificate.
5. Ensure that all records of training required by NAC 457.200 to 457.480, inclusive, are maintained at the facility.
6. Ensure that the machine is registered with the health division and that a certificate for the machine has been issued and is in force.
7. Ensure that all required documents of registration, certificates and credentials are prominently posted in the facility.
8. Ensure that the mean glandular dose for one contact craniocaudal view of a 4.5 centimeter (1.8 inch) compressed breast, composed of 50 percent adipose and 50 percent glandular tissue, does not exceed:
  - (a) One hundred millirads (1 milligray) for a film and screen mammogram made without the use of an anti-scatter grid;
  - (b) Two hundred millirads (2 milligrays) for a film and screen mammogram made with the use of an anti-scatter grid; or
  - (c) Four hundred millirads (4 milligrays) in the case of a xeroradiograph.For the purpose of this subsection, the mean glandular dose must be calculated as provided in "Mammography -- A user's Guide," National Council on Radiation Protection, Report No. 85.
9. Ensure that magnification mammography is performed only on a machine having a microfocal spot size of not more than 0.3 millimeter.
10. Ensure that any mammogram performed at the facility is performed only on a machine identified by the manufacturer as designed for mammography.

11. Ensure that each mammogram is retained by the facility and available to the patient for not less than 5 years after the date it is made.

12. Ensure that the name of the referring or responsible provider of care of each patient on which a mammogram is to be taken, is entered in the records of the facility before the mammogram is performed.

NRS/NAC 457.450.(2)(c) Requires that the coefficient of variation of the exposure dose does not exceed 0.05.

NRS/NAC 459.618(2) Requires that the total misalignment of the edges of the visually defined field respective to the X-ray field must not exceed 2% (0.02) of the source to image receptor distance (SID).

**Violations:**

Failure to conduct the six month review of the operator's procedure manual.

Failure to observe and prepare a record of the performance of each mammographer at the facility to ensure that he performs his duties in accordance with the manual of procedures.

The coefficient of variation of the exposure dose exceeded 0.05.

The misalignment of the visually defined field and the X-ray field was greater than 2% of the STD.