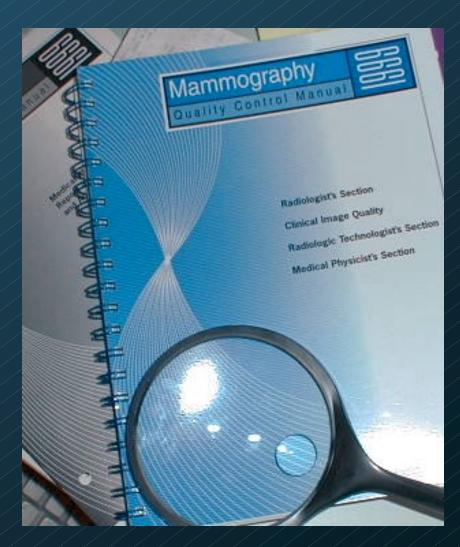
# American College of Radiology Mammography Accreditation Program

#### **Objectives**

- Overview of the ACR Mammography Accreditation Program
- Interrelationship between mammography accreditation, FDA certification and annual inspections
- How to successfully apply for accreditation
- What to do if you do not succeed
- Analysis of accreditation deficiencies

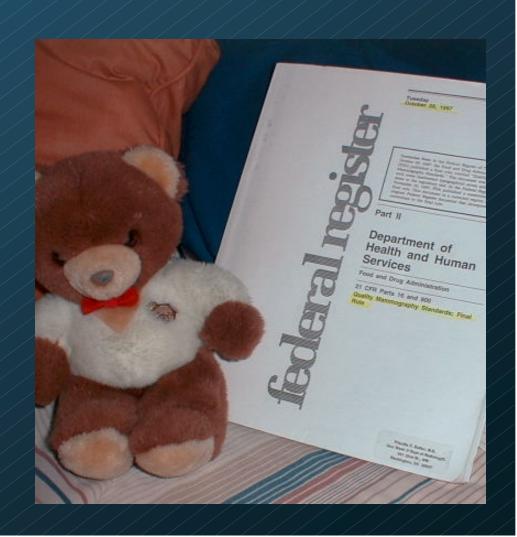
### ACR Mammography Accreditation Program

- Began in 1987
- QC Manual first published in 1990
- Judy M. Destouet, M.D. chairs Committee on Mammography
   Accreditation
- Currently accredit over 12,000 units at 9000 facilities



### Facility Requirements Under MQSA

- All mammography facilities must be
  - Accredited
  - Certified
  - Inspected
- Complementary, not duplicative



### Accrediting Bodies Responsibilities Under MQSA

- Facility standards review
- Clinical image review
- Physics survey review
- Random clinical image review
- On-site visits
- Mechanism to deal with complaints
- Reporting and record keeping
- Maintain reasonable fees

### ACR has Updated all Application Materials and Final Reports

#### Forms

- Revised to be consistent with Final Rules (FDA regulates accrediting bodies, too)
- New personnel sections no longer ask for CV's, training certificates
- Streamlined: redundant and unnecessary questions eliminated

#### Reports

- Take advantage of capabilities of ACR's new accreditation software
- Clear instructions for proceeding after deficiencies

### What Must a Facility Do to Pass Accreditation?

## Know When Your MQSA and Accreditation Certificates Expire

- Against the law to perform mammo without a current MQSA certificate
- Medicare will not reimburse under expired certificate
- Look for ACR expiration dates on certificate and unit label



#### American College of Radiology

The Mammographic Imaging Services of

Breast Screening Center Anywhere, USA

were surveyed by the Committee on Mammography Accreditation of the Commission on Standards and Accreditation

The following unit was approved:

Mammography Unit

Accredited from:

January 1, 1997 through December 31, 1999

Stayson d. Deig , IMD.

CHARMAN, COMMITTEE ON MAMMOGRAPHY ACCREDITATION

About M. Sandry Je MD, FACE

PRESIDENT, AMERICAN COLLEGE OF PADIOLOGY

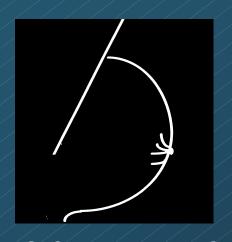
#### Meet All Application Deadlines

- Renewal notices sent out 8 months prior to accreditation expiration
  - ACR must receive the complete entry application within 6 months prior to expiration
- You have 45 calendar days to return completed testing to ACR
  - This guarantees completion of the review process before accreditation expiration

### Follow Instructions Submitting Clinical Images

- Images should be "negative"
  - BI-RADS assessment category 1
  - "nothing to comment on...breasts are symmetrical...no masses, architectural disturbances or suspicious calcifications"
  - BI-RADS assessment category 2 ("benign")
     will be accepted with prior approval from ACR
- Examples of your facility's best work
- Within 30 days of the phantom image and within the time period on the QC chart
- Supervising radiologist should review & approve the images

#### Submit Appropriate Density Images



Fatty



BI-RADS Composition Cat 1
Composed Almost Entirely of Fat

BI-RADS Composition Cat 2 Scattered Fibroglandular Densities



Dense



BI-RADS Composition Cat 3
Heterogeneously Dense

BI-RADS Composition Cat 4
Extremely Dense

### Clinical Image Quality Evaluated in Eight Categories

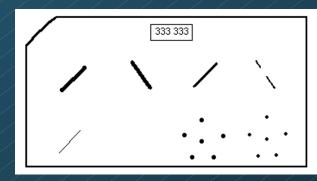
- Positioning\*
- Compression\*
- Exposure level
- Contrast
- Sharpness
- Noise
- Artifacts
- Exam identification

 Review evaluation criteria in "Clinical Image Evaluation" section of 1999 QC Manual before submitting images

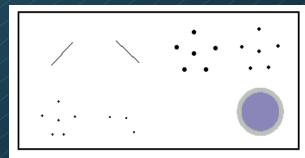
 (\*Primary reasons for accreditation failure)

### Follow Instructions Submitting Phantom Images & Dosimeter

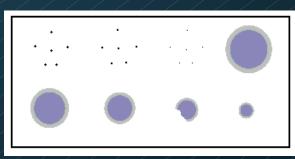
- Make a test exposure without the dosimeter
- Dosimeter or disk should not cover fibers, specks or masses
- Criteria used by ACR Phantom Image Reviewers is in 1999 ACR QC Manual



Fibers: 3.5 (the entire, unbroken length of the 4th fiber is not visible)



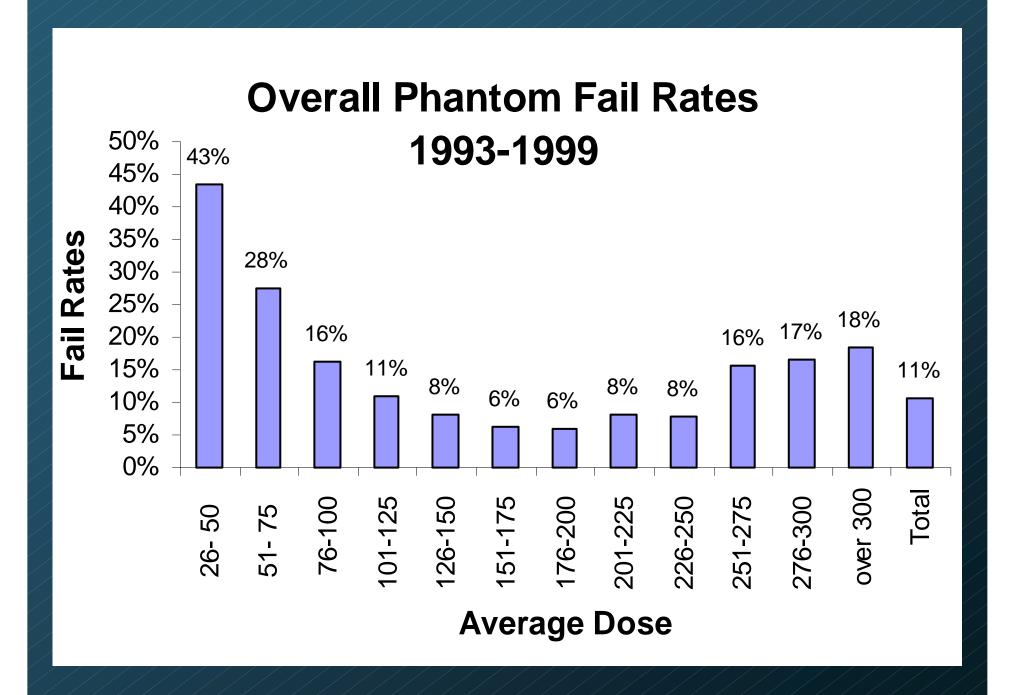
Speck groups: 3.5 (only 3 specks in the 4th speck group are visible)



Masses: 3.5 (greater 3/4 of the round perimeter should be visible for a full point)

#### Phantom Results Have Improved % of films not meeting ACR criteria

- Approx 11% did not meet criteria between 1993 and 1999
- 1993 approx 16%
- 1994 approx 16%
- 1995 approx 16%
- 1996 approx 7%
- 1997 approx 6%
- 1998 approx 6%
- 1999 approx 7%



#### Other Things to Keep in Mind

### Notify ACR When Installing a "New" Mammography Unit

- Before use
  - Physicist must conduct Equipment Evaluation
  - Call ACR for instructions to accredit the unit
- If more than 1 year left on accreditation
  - Full testing (clinical-phantom-dose-processor)
  - Reduced fee
  - If approved, same exp dates as other unit(s)
- If less than 1 year left on accreditation
  - Early renewal of entire facility (all units)
  - Usual fee
  - If approved, exp date for all units is old +3 yrs

#### **Equipment Evaluation**

- Must be done by qualified medical physicist
- This evaluation is an "acceptance test;" evaluates different features in addition to those tested as part of the medical physicist's annual QC survey
- Must be done (& all problems fixed) before equipment used on patients
- Must be submitted to ACR during initial application of new (or used) mammo unit

#### FDA Final Rules

- Equipment Standards: section 900.12(b)
  - X-ray units (e.g., flat and parallel compression)
  - Film and intensifying screens
  - Film processing
  - Film viewing
- Quality Assurance Equipment: section 900.12(e)
  - Facilities must conduct these tests at proscribed intervals and equipment must meet performance standards
  - Different from equipment standards

# ACR Has a Form to Help You Supplement Your Annual QC Survey Report for the Equipment Evaluation

- Section VI (MQSA Requirements for Mammography Equipment) in physicist's chapter of QC Manual
- Also downloadable from the ACR website
- Simple Yes/No/NA checklist format



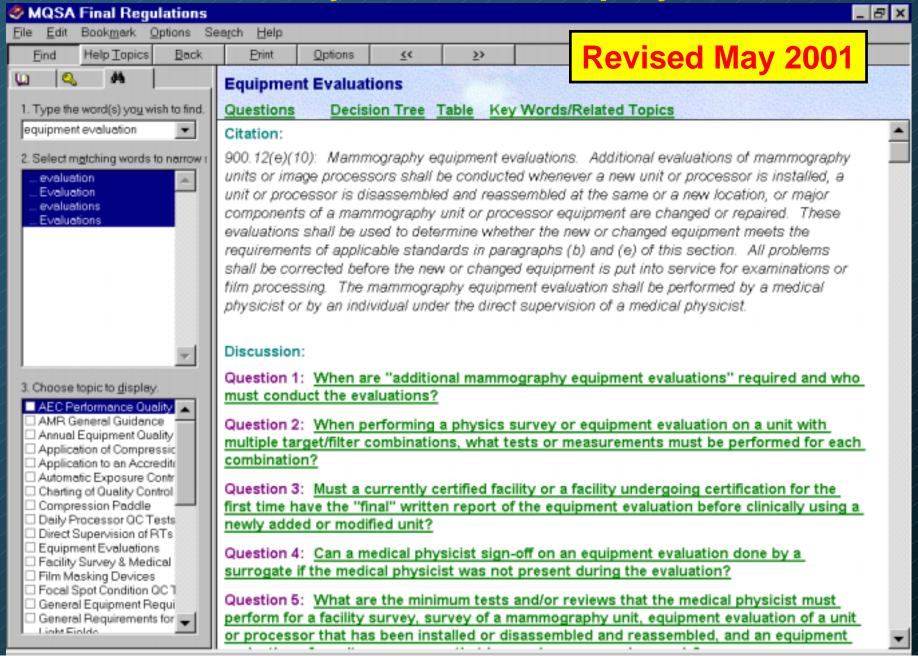
- Program Overview
- Program Basic Requirements
- Mammography Direct Reporting Letters
- The FDA's MQSA Requirement Information
- Frequently Asked Questions
- ACR 1999 Mammography Quality Control Manual
  - o Medical Physicist's Summary Report and Data Recording & Analysis Forms
  - Radiological Technologist's Quality Control Checklists, Control Charts and Data Forms
  - Quality Control Section of Mammography Frequently Asked Questions

Stereotactic Breast Biopsy Accreditation Program

### When Must a Facility Have an Equipment Evaluation Done?

- After installation of new (or used) x-ray unit or processor
- After x-ray unit or processor disassembled and reassembled at the same or new location
- After x-ray tube replacement
- After collimator replacement
- After filter replacement
- After AEC unit or sensor replacement

#### FDA Policy Guidance Help System



### You Have 2 Attempts at Accreditation Before Failing

- A "first deficiency" is NOT a Failure (ACR does not notify FDA)
  - Do NOT have to discontinue mammo
  - Take corrective action on your own
- Repeat deficient test (if >2 months on MQSA certificate)
- Reinstate (if ≤ 2 months on MQSA certificate)
- Appeal
- Withdraw

#### A 2<sup>nd</sup> Deficiency is a Fail

- ACR notifies FDA after a 2<sup>nd</sup> deficiency
  - FDA sends cease mammo letter
- Facility may Reinstate by reapplying and retesting in all areas after
  - Submitting corrective action plan to ACR
  - ACR reviews and approves completion
- ACR sends facility testing materials
- ACR notifies FDA of Reinstatement
- FDA sends interim notice and 6-mo provisional certificate (if necessary)

#### A 3<sup>rd</sup> Deficiency is a 2<sup>nd</sup> Failure Closer Oversight Necessary

- ACR notifies FDA after a 3<sup>rd</sup> deficiency
  - FDA sends cease mammo letter
- Facility must have Scheduled On-Site Survey (SOSS) in order to Reinstate
  - Submit corrective action plan to ACR
  - ACR reviews and approves completion
- SOSS radiologist, medical physicist, ACR staff technologist
- After SOSS, if no other corrective action needed, facility may reinstate

### Accreditation Approval Rates 2000

- After Initial or Renewal application
  - 69% approved
  - 31% had a deficiency
- After Reinstating
  - 90% approved
  - 10% had a deficiency resulting in failure
- Majority of deficiencies are due to poor clinical image quality

"Alex, I'll take "RADIOLOGY," please, for \$200."

"OK, John. The American College of Radiology wants increased Medicare reimbursement for this breast imaging procedure."

"What is mammography?"





#### Knowledge Challenge on the Web

CME: Earn 2 hours Category 1

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06/13/01

Updateline: ACR's Mammography Access

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**Updateline: ACR Board to Look at** 

Mammography Reimbursement, Other Issues at

Carrier at Manager