



American College of Radiology Accreditation Programs

Keys to Accreditation

ACR Accreditation Programs

- 1987 Mammography Accreditation Program
- 1987 Radiation Oncology Accreditation Program
- 1995 Ultrasound Accreditation Program
- 1996 Stereotactic Breast Biopsy Accreditation Program
- 1996 MRI Accreditation Program
- 1997 Vascular Component added to Ultrasound
- 1998 Ultrasound-guided Breast Biopsy Accreditation
- 1999 Nuclear Medicine
- 2000 Breast US module added to US-guided biopsy program

Other Accreditation Programs Under Development

Chest, General Radiography and Fluoroscopy
Interventional

♦ CT

Accreditation Principles

1) Evaluation must be voluntary

- 2) Confidential, peer review process
- 3) Educational not punitive
- 4) Written report with appeals process

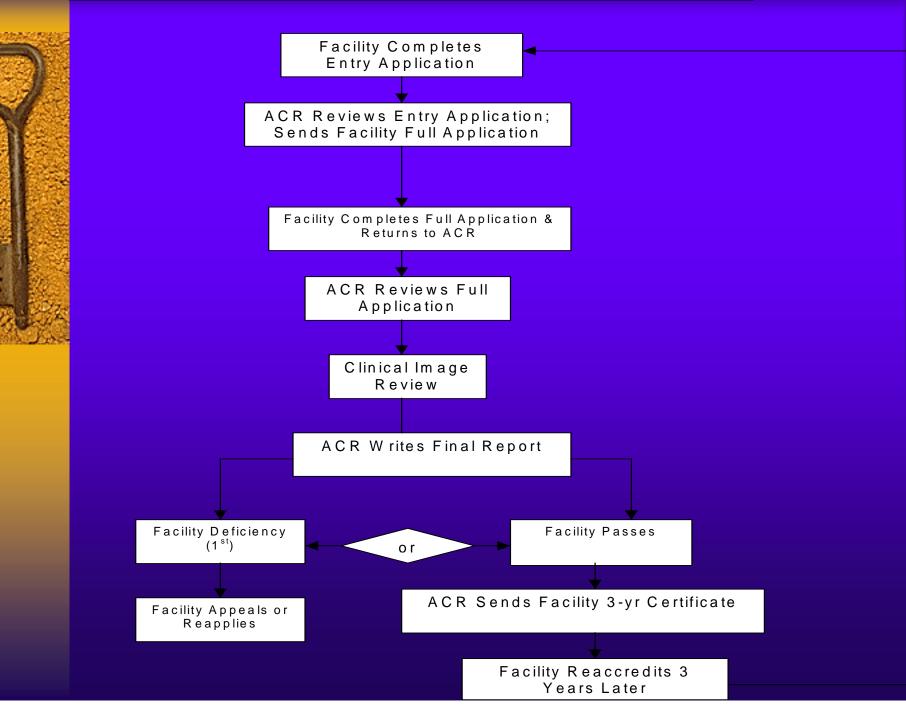
Accreditation Principles (cont. #2)

5) Program is valid and credible, reasonable
 6) Provide a public benefit
 7) Conflict of interest
 8) Timely and cost effective - by mail

Accreditation Principles (cont. #3)

9) Available to all who meet the criteria
10) Issues such as antitrust and restraint of trade are recognized and addressed
11) Non-exclusive
12) Professional staff administer ACR programs

ACR Ultrasound Accreditation Process



US Accreditation Modules

♦ OB

- Gynecological
- ♦ General
- ♦ Vascular
- Facility should apply for all modalities performed

New Additions

VASCULAR

- Approved by ACR Council Steering Committee and implemented in early 1998
- ACR seeking recognition by HCFA and other third party payers

GYNECOLOGICALImplemented late fall 2000

Third Party Payers

♦ OB

- Aetna USHealthcare
- CA Prenatal Diagnosis Centers
- CIGNA of CT
- Blue Cross of PA
- Intermountain Healthcare, UT
- -New York Medical Imaging, PLLC
- -PHS

Medicare Carriers

♦ Vascular

- AdminiStar
- Cabaha Government Benefit Admin.
- Cigna
- HGS Administrators
- Palmetto Government Benefit Admin.
- National Heritage Ins. Co.
- Nationwide Insurance

- Blue Cross/Blue Shield of AR
- Blue Cross.Blue Shield of KS
- Empire Blue Cross/Blue Shield
- Trailblazers
- Trans Occidental
- Veritas of Western PA
- Wisconsin Physician Service (WPS)

Interpreting Physician Criteria

- Practitioner with understanding and familiarity with:
 - Indications
 - Basic Principles
 - Limitations
 - Alternate and complimentary imaging procedures
 - Ability to correlate other imaging with ultrasound

Interpreting Physician Criteria (cont.)

Thorough understanding of:

- ultrasound technology and instrumentation and
- ultrasound power output
- equipment calibration and safety

Interpreting Physician Criteria (cont.)

- Demonstrate familiarity with:
 - Anatomy & Physiology
 - Pathophysiology
- Evidence of:
 - Training
 - Competence

Interpreting Physician Criteria (cont.)

 The interpreting Physician must also meet at least one of the physician qualification criteria outlined in the Basic Requirements.

Physician Criteria Continuing Qualifications Maintain competence by: Regular performance and interpretation Minimum of 300 exams recommended

Physician CME

- Compliance with the ACR Standard on CME
 - 150 hours of CME every 3 years
- Should include ultrasound as appropriate for their practice

Sonographer Criteria for General OB or Gyn Accreditation

- Must be ARDMS certified or eligible at time of application
- For renewal, all sonographers must be certified

Sonographer Criteria for Vascular Accreditation

 Must have at least one sonographer who is RVT or RVS (previously RCVT) certified

Quality Control Program

- Required as of January 1998
- Directed by medical physicist or supervising MD
- Minimum frequency semi-annually
- Testing and corrective action must be documented
- Documentation will be reviewed if site survey done

Quality Control Program (cont.)

- Initial testing verify horizontal and vertical distance measurement
- Use any Ultrasound phantom
- Two probes for each scanner should be tested

Quality Control Program (cont.)

- System sensitivity and/or penetration capability
- Image uniformity
- Photography and other hard copy recording
- Low contrast object detectability (optional)
- Assurance of electrical and mechanical safety

Quality Control Manual

Development began Fall 1999
Analysis of data submitted on full application

Full Application

- Collects practice data that will enable correlation between practice patterns and outcome on accreditation
- Documents that personnel meet criteria
- Demonstrates compliance with ACR US standards
- ♦ QC data

OB Ultrasound Clinical Images

- ♦ 1 First Trimester
- ♦ 2 Second Trimester
- ♦ 1 Third Trimester

Gyn Ultrasound Clinical Images

 1 Endovaginal Female Pelvis
 3 Female Pelvis Endovaginal OR Transabdominal

General Ultrasound Clinical Images

- Upper Abdominal Complete (Required) Showing all of the following anatomy
 - -Liver
 - -Gall Bladder and Biliary Duct
 - Pancreas
 - Spleen
 - -Kidneys

General Ultrasound Clinical Images (cont.) Plus choice of three from the following:

•Female Pelvis

•Small Parts

- Scrotum/Thyroid

RetroperitonealRenal/Urinary Tract

•Transrectal Prostate

•Pediatric Neurosonology

P

Vascular Ultrasound Clinical Images

One normal and one abnormal exam from each of the categories performed at the facility

- Peripheral exams
- Cerebrovascular carotid exam
- Abdominal vasculature exam
- Deep abdominal: Aorta or Inferior Vena Cava exam

Clinical Image Key Points

- Submit complete exams with all images from same pt.
 - Exams must be from real pts. (not volunteers)
- Transparency; no electronic format
- Reviewer assumes images are an example of your best work
- Keep in mind reviewer does not have the benefit of real time

Image Labeling and Written Report

- Patient name and identification number
 Examination date
- Name of facility/institution
- Clinical indication for examination

Written Report

 Comply with ACR Standard for Communication, 1995

OB, Gyn & General Key Points

- Exams interpreted as normal are required
- 1st trimester exam should include fetal pole and allow documentation of heart rate
- Include physician report
 - used to confirm data of exam
 - songrapher worksheet not acceptable

Vascular Key Points

- One normal and one abnormal
- Diagnostic & physiologic criteria
 - Carotid should include velocity table
- Report of noninvasive pressure testing for arterial and carotid
- Abnormal exams should include a vascular abnormality

Testing Materials - Due Date

- On bar-coded labels
- ♦ 60 days from date of application
 - extension must be requested in writing
- Images must be acquired no more than 120 days before due date

Testing Materials Key Points

- Maintain copies of all images & patient names
- ♦ Send via Express mail, FEDX, etc.

Repeat after Deficiency

• Submit only those exams that did not pass.

Validation Cycles

Random Film Check
Random On-site Survey

Random Film Checks

- ACR designates date for:
 - 1 Set of sonograms from each category of accreditation,
 - eg., OB, Gyn, General, Vascular

Goals of On-site Survey

1) Education2) Validation

On-site Survey

- Radiologist Responsibilities
 - Team Leader
 - Evaluate clinical image quality
 - Consult with radiologist regarding clinical interpretation

On-site Survey

- Physicist Responsibilities
 - Equipment verification
 - Review of semi-annual QC report and corrective action
 - Review & evaluate all QC logs

On-site survey

ACR Staff Verification

- Application data
- Personnel qualifications
- Federal, state & local licensure/certification

Charges First Ultrasound Site (Primary ultrasound site)

OB US, only
Gynecological US, only
General US, only
General US, only
Vascular, only
Vascular, only
Combination of any two
Combination of any three
\$1200
All

Charges Additional US Practice Sites (different addresses/locations)

- OB US, only
- Gynecological US, only
- General US, only
- Vascular, only
- Combination of any two
- Combination of any three
- ♦ All

\$900 each
\$900 each
\$900 each
\$900 each
\$1000 each
\$1200 each

Statistics as of March 2001

Number of applications 2265
 Number of Accredited Facilities 2095
 Deficiency Rates 19% (on first attempt)

Breast Ultrasound Accreditation

- Added to Ultrasound-Guided Breast Biopsy Summer 2000
- Under direction of Peter J. Dempsey, M.D., Chair, Committee on Breast Ultrasound Accreditation

Breast Ultrasound Accreditation (BUAP)

- Two types
 - Breast Ultrasound

– Ultrasound guided breast biopsy

- Mass only
- FNAC only (not cyst aspiration)

Breast Ultrasound Accreditation and MQSA

 MQSA only applies to mammography (x-ray imaging of the breast)
 Does not apply to ultrasound

BUAP Physician Requirements

Breast US

Initial Qualifications

 Same as Ultrasound Accreditation Breast Biopsy

- Initial Qualifications
 - 12 USGBB on patients, OR 3 hands on USGBB supervised by equal MD AND 3 Cat. 1 CME hrs. in USGBB procedures
 - Performance & interpretation of breast US

BUAP Physicians Requirements

Breast US

Breast Biopsy

 Continuing Qualifications

 30 exams/year
 (recommended)

- Continuing
 Qualifications
 - 12 USGBB/year
 - Regular performance and interpretation of breast US

BUAP Physicians Requirements

Breast US

Breast Biopsy

Continuing Education

 ACR Standard on CME Continuing Education

 3 Cat. 1 CME in USGBB/ 3 years; must include post-biopsy management BUAP Technologist Requirements

ARDMS OR ARRT and MQSA qualified AND 5 hrs. CEU within one year of accreditation

BUAP Key Points

- ♦ Transducers must be > 7mHz
- QC Tests (Semi-Annual)
 - Penetration, uniformity, distance accuracy, anechoic void perception, ring down, lateral resolution, electrical and mechanical safety
- Sampling devices (Biopsy module)
 - Gun/needle
 - Vacuum assisted devices

BUAP Clinical Images

Evaluation based on image quality
Lesion biopsy is same as seen on mammo or physical exam

Outcome Data for Biopsy Module

- Number of procedures
- Number of cancers found
- Number of benign lesions
- Number of biopsies needing repeat
- Number of complications

BUAP ChargesPrimary Ultrasound Site• Breast US, only\$700• Breast US & Breast Biopsy\$800

Additional Ultrasound Sites
Breast US, only \$600
Breast US & Breast Biopsy \$700

ACR Ultrasound Accreditation Key Resources ACR Standards ♦ Basic Requirements Evaluation Attributes Document
 ACR Staff UAP 1-800-770-0145 BUAP 1-800-227-6440 www.acr.org