

U.S. FOOD AND DRUG ADMINISTRATION

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NATIONAL MAMMOGRAPHY QUALITY ASSURANCE ADVISORY
COMMITTEE

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FRIDAY,
SEPTEMBER 29, 2006

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The above-entitled matter convened in Remington 1&2 of the Atrium Court Hotel, 3 Research Court, Rockville, Maryland, at 8:00 a.m., Carolyn B. Hendriks, M.D., Chair, presiding.

PRESENT:

CAROLYN B. HENDRIKS, M.D. Chair
 JEFFREY W. BYNG, Ph.D. Industry Representative
 SCOTT FERGUSON, M.D. Member
 JACQUELIN S. HOLLAND, R.N., C.R. Consumer
 Representative
 PHILIP Z. ISRAEL, M.D. Member
 DEBRA L. MONTICCIOLO, M.D. Member
 CAROL J. MOUNT, R.T. (R) (M) Member
 JOHN M. SANDRIK, Ph.D. Industry Representative
 JANE B. SEGELKEN, B.S., M.A. Consumer Representative
 JULIE E. TIMINS, M.D. Member
 MARGARET S. VOLPE, M.B.A. Consumer Representative
 MARK B. WILLIAMS, Ph.D. Member
 NANCY WYNNE Executive Secretary

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PUBLIC SPEAKERS:

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American College of Radiology and
Society of Breast Imaging

PENNY BUTLER
American College of Radiology

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C-O-N-T-E-N-T-S

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1 P-R-O-C-E-E-D-I-N-G-S

2 (8:05 a.m.)

3 DR. HENDRIKS: I'd like to welcome everyone
4 to the second day of the National Mammography Quality
5 Assurance Advisory Committee.

6 My name is Carolyn Hendriks. I'm chairing
7 the committee meeting.

8 We're going to start out with a conflict
9 of interest statement read by Nancy Wynne.

10 CONFLICT OF INTEREST STATEMENT

11 MS. WYNNE: Good morning.

12 FDA conflict of interest disclosure
13 statement: Particular matters of general
14 applicability. National Mammography Quality Assurance
15 Advisory Committee, September 29th, 2006.

16 The Food and Drug Administration is
17 convening today's meeting of the National Mammography
18 Quality Assurance Advisory Committee under the
19 authority of the Federal Advisory Committee Act of
20 1972.

21 With the exception of the industry

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1 representatives, all members of the committee are
2 special government employees or regular federal
3 employees from other agencies, and are subject to
4 federal conflict of interest laws and regulations.

5 The following information on the status of
6 the committee's compliance with federal ethics and
7 conflict of interest laws covered by, but not limited
8 to, those found at 18 U.S.C. 208 are being provided to
9 participants in today's meeting and to the public.

10 FDA has determined that members of this
11 committee are in compliance with federal ethics and
12 conflict of interest laws. Under 18 U.S.C. 208
13 Congress has authorized FDA to grant waivers to
14 special government employees who have financial
15 conflicts when it is determined that the Agency's need
16 to a particularly individual's services outweighs his
17 or her potential financial conflict of interest.

18 Members of this committee who are special
19 government employees have been screened for potential
20 financial conflict of interest on their own, as well
21 as those imputed to them, as well as those of their
22 employer, spouse or minor child, related to the

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1 discussion of today's meeting.

2 These interests may include investments,
3 consulting, expert witness testimony, contracts,
4 grants, CREDAs, teaching, speaking, writing, patents
5 and royalties, and primary employment.

6 Today's agenda involves a review and
7 discussion of the following general issues. One,
8 amendments to the current MQSA regulations; and two,
9 all guidance documents issued since the last meeting.

10 The committee will also receive updates on
11 recently approved alternative standards and the
12 radiological health programs.

13 Based on the agenda for today's meeting
14 and all financial interests reported by the members of
15 the committee, conflict of interest waivers have been
16 issued in accordance with 18 U.S.C. Section 208(b)(3)
17 to Doctors Philip Israel, Julie Timins, Mark Williams,
18 and Ms. Carol Mount.

19 The waivers allow these individuals to
20 participate fully in today's deliberations.

21 Copies of these waivers may be obtained by
22 visiting the Agency's website, or by submitting a

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1 written request to the Agency's Freedom of Information
2 Office, Room 630 of the Parklawn Building.

3 A copy of this statement is also available
4 for review at the registration table during this
5 meeting, and will be included as part of the official
6 transcript.

7 Drs. Philip Sandrik and Jeffrey Byng are
8 serving as the industry representatives, acting on
9 behalf of all related industry, and are employed by GE
10 Healthcare and Eastman Kodak Company respectively.

11 We would like to remind members that if
12 the discussions any other matters, products or firms
13 not already on the agenda, but for which an FDA
14 participant has a personal or imputed financial
15 interest, the participant needs to exclude themselves
16 from such involvement, and their exclusion will be
17 noted for the record.

18 FDA encourages all other participants to
19 advise the committee of any financial relationships
20 they may have with any firms at issue.

21 Thank you.

22 COMMITTEE BUSINESS

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1 DR. HENDRIKS: We have two small items of
2 committee business.

3 The first is to introduce the new panel
4 member, Dr. Israel. Welcome.

5 Would you introduce yourself briefly,
6 please.

7 DR. BARR: I am Dr. Israel. I am a breast
8 cancer oncologic surgeon from Atlanta, Georgia.

9 I am director of the Breast Center there
10 which I started approximately 20 years ago, and have
11 been heavily involved in all aspects of diagnosis and
12 treatment and breast imaging for breast cancer.

13 DR. HENDRIKS: Thank you and welcome.

14 The other item of business is just to
15 notify mainly the audience that the committee did
16 review several quality standards at the end of the day
17 yesterday related to revocation, accreditation, and
18 accreditation body approval. And at the end of the
19 session today, or towards the end, we will also review
20 those comments for the benefit of the members of the
21 audience who were not here for that discussion.

22 So now we will proceed to the portion of

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1 the meeting that is the open public hearing.

2 OPEN PUBLIC HEARING

3 DR. HENDRIKS: I'll begin by reading the
4 FDA statement again, and then we will welcome comments
5 from Dr. Dershaw from ACR.

6 Both the FDA and the public believe in a
7 transparent process for information gathering and
8 decision making.

9 To ensure such transparency at the open
10 public hearing session of this advisory committee
11 meeting, the FDA believes it is important to
12 understand the context of an individual's
13 presentation.

14 For this reason the FDA encourages you,
15 the open public hearing speaker, at the beginning of
16 your written or oral statement, to advise this
17 committee of any financial relationship that you may
18 have with a sponsor, its product, and if known, its
19 direct competitors.

20 For example this financial information may
21 include the sponsor's payment of your travel, lodging,
22 or other expenses in connection with your attendance

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1 at this meeting.

2 Likewise, FDA encourages you at the
3 beginning of your statement to advise this committee
4 if you do not have such financial relationships.

5 If you choose not to address the issue of
6 financial relationships at the beginning of your
7 statement, it will not preclude you from speaking.

8 Dr. Dershaw.

9 DR. DERSHAW: Thank you. I appreciate the
10 opportunity to be here.

11 I am representing the American College of
12 Radiology, and the Society of Breast Imaging. They
13 paid my expenses, but otherwise, I have no conflict of
14 interest to report to you.

15 On behalf of the college and the society,
16 I am here to state that these organizations endorse
17 the regulation of stereotactic breast biopsy under
18 MQSA, and we would like to suggest to the advisory
19 committee that the ACR program, voluntary program, for
20 accreditation of stereotactic breast biopsies, which
21 has been designed using the same format as that used
22 by the FDA for mammography accreditation, would be an

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1 appropriate program to use for that accreditation
2 process.

3 I'd like to review with you in the next
4 few minutes what the ACR accreditation program is; its
5 design; and its current position in the stereotactic
6 breast biopsy world, at least in the United States at
7 the present time.

8 The program was first offered as a
9 voluntary program in 1996, so it has a decade of
10 experience now. As I said, it's modeled after what was
11 originally the ACR mammography accreditation program
12 and is now the basis for the design of the FDA
13 regulatory program.

14 It involves an assessment of personnel,
15 equipment, as well as clinical performance.

16 The ACR additionally in putting this
17 program together, and in the actual implementation of
18 the program, has worked in conjunction with the
19 American College of Surgeons, and in fact assesses the
20 applications of the ACS applicants for their program.

21 As I've said the accreditation program of
22 a college is a three-tiered program in terms of

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1 application for accreditation. The personnel
2 qualifications involve looking at physicians involved
3 in stereotactic biopsy; the technologists involved in
4 stereotactic breast biopsy; and the physicists who
5 assess the performance of reequipment using
6 stereotactic breast biopsy.

7 In addition to looking at personnel there
8 is an assessment of the quality of performance of the
9 biopsy in the clinical setting by looking at clinical
10 images that are submitted.

11 In addition to that there is an assessment
12 of the safety and quality of performance of the
13 equipment used by looking at phantom images.

14 And finally there is a quality control
15 program to maximize safety of equipment between
16 examinations.

17 The goal in looking at personnel, and in
18 establishing the qualifications for personnel, was to
19 make certain that there was a minimum level of
20 training for the physician or physicians involved, for
21 the medical physicists, and for the technologists
22 involved in the performance of these procedures.

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1 The physician qualifications were worked
2 out in meetings between the College of Radiology and
3 the College of Surgeons, and they are designed so that
4 whether radiologists, surgeons, or other physicians
5 alone or in combination are performing these
6 procedures, that a minimum level of training and
7 experience will be part of that physician package.

8 The personnel qualifications for all three
9 types of personnel involved in these procedures
10 include initial qualifications of basic education, as
11 well as actual hands-on experience in performing these
12 procedures.

13 Second, continuing education.

14 And thirdly, continuing experience, the
15 belief being there should be a basic level of training
16 and experience before one independently participates
17 in these procedures; and secondly, there should be
18 continued education and experience to maintain if not
19 improve the level of quality that physicians and the
20 technologists and the physicists are bringing to the
21 procedures.

22 The case material, the clinical material,

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1 is evaluated to determine the ability to accurately
2 perform the procedure as it is ongoing. So we ask
3 facilities to submit to us images taken during the
4 procedure that indicate to us that the relationship of
5 the biopsy probe to the lesion that is undergoing
6 biopsy is appropriate for that point in the procedure.

7 We ask them to send us what they believe is their
8 best level of work. We ask them to send us images
9 based on the equipment that they are using,
10 understanding that there are a variety of biopsy
11 probes that are available, and that the relationship
12 of the biopsy probe to the actual target lesion is
13 determined at least partially by which probe is being
14 selected.

15 So we don't mandate what equipment is
16 being used. We allow the facility to decide what
17 equipment they will be using.

18 The assessment of phantom images is
19 similar to the assessment that goes on with the
20 mammography program, looking at dose criteria, which
21 must be less than 300 millirads, and an objective
22 assessment of image quality with phantom imaging.

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1 Finally, the college has produced a
2 quality control manual which was published three years
3 after the program began. And the accreditation
4 program requires that facilities follow the quality
5 control test that are outlined in the manual at the
6 intervals outlined in the manual.

7 The reviewers of images and of phantoms
8 for the program must be ABR qualified or certified,
9 and must be ACR members.

10 There is a formal training program for the
11 reviewers to optimize quality of review, in addition
12 to a quality control program of reviewers where each
13 reviewer is given an annual report on their
14 performances and any deficiencies that may be present.

15 The reviewers are all in clinical or
16 physics practice across the United States, and in
17 order to try to address conflict of interest,
18 reviewers are not permitted to review facilities from
19 their own state.

20 Now this is a chart of the number of
21 facilities in blue, and the number of units in red -
22 not a great difference between those two lines - that

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1 have undergone accreditation in this voluntary program
2 from the college, and you can see there's a slight
3 increase as of this month compared to where we were
4 four years ago, with about 441 facilities I believe
5 currently accredited.

6 This shows the pass rates with red showing
7 passing on the initial application of a facility;
8 purple - I think that's purple - showing the
9 percentages of facilities for renewal that have
10 passed; and the last column in green showing the total
11 pass rate.

12 And I think if you look at this chart you
13 can see that there has been over the last five years a
14 gradual improvement in all of those. And I think this
15 represents a real influence of that program in
16 improving quality of stereotactic facilities that are
17 participating in the program.

18 This chart shows the reasons for failure
19 on the first application for accreditation. The big
20 red piece of pie is failure due to suboptimal clinical
21 imaging. And as you can see that accounts for about
22 two-thirds of failures.

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1 The reason I'm sharing this with you is
2 that I think it's important to understand also that
3 about one-third of failures are due to factors other
4 than or as well as clinical imaging.

5 So that means that the safety of the
6 equipment, the radiation exposure, the optimal
7 functioning of the equipment, has been a reason for
8 failure in one-third - has been the total reason or
9 part of the reason for failure in one-third of
10 facilities, and a program looking at those factors as
11 well as clinical factors should be the kind of program
12 that's used because of these issues.

13 This is from a paper that was published
14 very recently by Levin et al. In the Journal of the
15 American College of Radiology. And it's breast biopsy
16 trends based on CMS, based on Medicare data.

17 This particular table shows from 1999 to
18 2004 the performance of breast biopsies, all breast
19 biopsies, imagining guided and non-imaging guided
20 breast biopsies procedures by all physicians, the top
21 light blue line; the next line beneath that is
22 radiologists, the dark blue; surgeons, the pink; and

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1 others which make a very small contribution in yellow.

2 So you can see that there has been an
3 increase in those procedures over the past half
4 decade, and most of the increase in those procedures
5 is due to an increase in radiologists performing
6 breast biopsies of all types.

7 Of imaging guided breast biopsies, again,
8 based on Medicare data, imaging guided breast
9 biopsies, 72 percent, about three-quarters, are done
10 by radiologists at the present time, and about one-
11 quarter are done by surgeons.

12 And during the period that was shown on
13 that graph, from 1999 to 2004, there was a slight
14 increase in the contribution of surgeons to the
15 importance of imaging guided biopsies - 16 percent.
16 But the performance of those biopsies by radiologists
17 increased by 79 percent. So almost doubling in
18 radiologists' participation, I think explaining that
19 considerable increase in the percentage of
20 radiologists performed biopsies that you saw on the
21 prior slide.

22 The total number of breast biopsies in the

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1 last year available for data which was 2004 was almost
2 150,000. And the number of imaging-guided biopsies
3 was 125,000, accounting for more than 85 percent of
4 breast biopsies performed. So 85 percent of breast
5 biopsies performed are done as imaging guided
6 procedures, and those procedures are done by
7 radiologists in almost three-quarters of cases.

8 It is difficult to tell from available
9 data how many are stereotactic and how many are not.
10 But it is estimated that slightly less than half of
11 those procedures are stereotactic biopsies.

12 So we're talking here about an issue that
13 involves about 50,000 procedures as of two years ago,
14 paid for by Medicare in the population.

15 So how you can transpose that into the
16 general population is up to your deciding, because we
17 don't have that data. But we are talking about a
18 large number of procedures. We are advising that the
19 procedures again be regulated under MQSA. We are
20 advising that the program again be based on the
21 college's program looking at clinical performance, and
22 as importantly, looking at the safety and the

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1 equipment performance involved in the program.

2 Thank you very much for your time, and
3 I'll be happy to answer any questions you might have.

4 DR. HENDRIKS: Any questions for Dr.
5 Dershaw?

6 Thank you very much.

7 DR. BYNG: I had a question for Dr.
8 Dershaw, sorry.

9 On another slide you showed the number of
10 units accredited and the number of facilities
11 accredited. Do you have any idea what the total
12 number of units and facilities are that do biopsies?

13 DR. DERSHAW: No, it's almost impossible to
14 get that information. We do not know what that is.

15 DR. BYNG: So we wouldn't know how many
16 people would be affected by the proposal that you
17 have?

18 DR. DERSHAW: That's correct.

19 The only numbers that we have available
20 are the Medicare numbers. So we can only give you
21 that portion of the population. But in terms of the
22 rest of it, in order to generate numbers we would have

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1 to - the way the Medicare numbers are generated are
2 through the applications for reimbursement.

3 So if one used the same technique they
4 would have to go to all the third party payers and
5 look at the codes for submitted billing and generate
6 the number for that.

7 So because of the diversification of the
8 system in the United States, it's well nigh impossible
9 to figure that out.

10 DR. ISRAEL: May I ask an additional
11 question?

12 Dr. Dershaw, are you familiar with the
13 National Approvals Program for Breast Centers at the
14 American College of Surgeons, and the American College
15 of Radiology are working on together.

16 Are you in support of that effort?

17 DR. DERSHAW: Well, I'm here this morning
18 to address stereotactic biopsy issues, and it's my
19 believe that if there were a program for accreditation
20 of breast centers that part of the accreditation that
21 involved stereotactic biopsies should be the program
22 that we are suggesting here this morning, and that a

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1 program that accredits breast centers should not
2 compromise the quality and the standards of
3 accreditation programs that are in place.

4 DR. HENDRIKS: Thank you very much.

5 There's just going to be a small change in
6 the agenda. We're going to skip the break at this
7 point and move into the open committee discussion.
8 There will be a break later on in the morning.

9 Dr. Finder.

10 OPEN COMMITTEE DISCUSSION

11 DR. FINDER: Good morning.

12 I'm just going to go over again the
13 directions for the discussion we're going to be going
14 through for the rest of the morning. This is going to
15 be a redo of what we went over yesterday.

16 The main purpose of this meeting is to
17 discuss possible changes to the final regulations.

18 Prior to the meeting the committee members
19 were given a copy of the regulations along with
20 certain sections highlighted for possible revision,
21 based on our experience implementing the regulations,
22 as well as questions and comments we have received

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1 over the years.

2 They were also instructed to make their
3 own suggestions to any portions of the regulations.

4 We will be projecting the document on the
5 screen as we proceed through the regulations, and have
6 made the document available to the audience as a hard
7 copy handout.

8 It's also available on our website. As
9 you can see there is a lot of material to cover, so
10 I'm going to suggest that we go through each item in
11 turn and asking for a show of hands for either a yes
12 or no opinion.

13 In cases where there is a significant
14 disagreement among the committee, Dr. Hendriks will
15 ask for brief comments from the committee, and then
16 we'll ask for another show of hands.

17 We are not asking for detailed
18 wordsmithing, but rather a consensus on whether or not
19 to make a change and what direction to go.

20 After the meeting FDA will take the
21 committee's ideas, develop detailed amendments to the
22 regulations, and then issue them for public comment.

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1 Does anybody have any questions?

2 Okay, let's begin.

3 We will be starting in the definition
4 section, which is 900.2. Those definitions can be
5 found on pages two through nine, and consist of
6 footnoted items one through 30.

7 Let's begin with the first footnote, where
8 we ask, should there be a definition added for unit
9 and facility accreditation and re-accreditation?

10 Show of hands, yes.

11 (Show of hands)

12 DR. FINDER: No?

13 (Show of hands)

14 DR. FINDER: That's a yes.

15 And it's consistent with a lot of our
16 discussions yesterday to add clarification to the
17 topic about accreditation.

18 Next is number two. Should a definition
19 be added for audit interpreting physician? The audit
20 interpreting physician is that physician that deals
21 with the review of the medical audit. It's actually
22 described in that section.

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1 But the question here is, should there be
2 just a plain definition for it in the definition
3 section.

4 And again, yes?

5 (Show of hands)

6 DR. FINDER: No?

7 (Show of hands)

8 DR. FINDER: And that's a yes.

9 Next, number three, should a definition be
10 added for automatic exposure control? Again, it's a
11 clarification fo what we mean by that. It has been
12 defined in other areas outside the document.

13 Should we include it in here?

14 Yes, show of hands?

15 (Show of hands)

16 DR. FINDER: No?

17 (Show of hands)

18 DR. FINDER: Okay, that again is a yes.

19 DR. SANDRIK: Just a comment that it is
20 already defined in the performance standards that the
21 manufacturers have to meet, and it would be
22 appreciated if the definitions were harmonized, being

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1 the same.

2 DR. FINDER: Or as we said yesterday, we
3 would pick between more stringent, less stringent, or
4 substantially the same.

5 No, that's a good comment. And that would
6 be the plan I think to use that same definition.

7 Next, should we add a definition for
8 automatic exposure control mode?

9 This is one of the issues that we've tried
10 to address in guidance in terms of what testing has to
11 be done during the mammography equipment evaluation
12 versus during a survey.

13 And again the hope here would be that we
14 would write a definition that would clarify the
15 differences.

16 So asking for a show of hands on, should
17 we include a definition for mode.

18 Yes?

19 (Show of hands)

20 DR. FINDER: No?

21 (Show of hands)

22 DR. FINDER: And that also looks like a

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1 yes.

2 Number five, where we talk about category
3 one training, and this would apply to interpreting
4 physicians, should residency and fellowship training
5 be specifically mentioned here?

6 Again, it's to clarify what types fo
7 training are acceptable for either initial or
8 continuing requirements.

9 Show of hands, yes?

10 (Show of hands)

11 DR. FINDER: No?

12 (Show of hands)

13 DR. FINDER: And again we have a yes
14 overall.

15 Number six, where we have the definition
16 of certificate, should this definition be expanded to
17 describe the four different kinds of certificates?

18 And those are the full provisional
19 temporary renewal and limited provisional.

20 Again, a show of hands for yes.

21 (Show of hands)

22 DR. FINDER: No?

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1 (Show of hands)

2 DR. FINDER: And again the yes is
3 preferred.

4 DR. BYNG: Dr. Finder, a quick question on
5 that one. That's essentially the same definitions as
6 appear at the beginning of 900 R11, so is it just
7 moving those definitions forward?

8 DR. FINDER: Yes, the answer to that is not
9 only the ones that currently appear there, but the
10 ones that we will have to add because of the change in
11 the statute which added two different types of
12 certificates, so it would be added into that section
13 in 900.11, and also here.

14 Number seven, should a definition be added
15 for corrective action. And before I ask that, I want
16 to kind of clarify what we mean here.

17 Basically we're talking about corrective
18 actions taken for failed quality control tests. And
19 the definition we'd probably be looking at is a
20 description that includes what would be required as
21 part of that corrective action.

22 We have encountered cases where, for

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1 example, a QC test has been failed; somebody takes
2 some type of action, but then never repeats the test
3 to show that the test is now actually back within
4 limits, normal limits or acceptable limits.

5 So the idea behind this would be to lay
6 out the framework for what would be considered a
7 satisfactory corrective action.

8 Show of hands for yes?

9 (Show of hands)

10 DR. FINDER: No?

11 (Show of hands)

12 DR. FINDER: And again that's a yes.

13 Number eight is, should we add a
14 definition for final interpretation?

15 DR. TIMINS: For final interpretation I
16 would argue that the term is self explanatory.

17 DR. BYNG: But there may be a connection
18 with the discussion about digital soft copy images in
19 particular.

20 MS. VOLPE: I think you also have to
21 consider in these definitions those of us who are
22 consumer reviewers for the first time and others in

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1 the public who may be reading the document who
2 wouldn't understand.

3 DR. FINDER: Okay, let's take a quick show
4 of hands. Should we include a definition for final
5 interpretation?

6 Yes?

7 (Show of hands)

8 DR. FINDER: No?

9 (Show of hands)

10 DR. FINDER: It's kind of split.

11 I would just want to add in terms of that,
12 one of the driving forces behind this is the idea of
13 what happens when you transfer images, especially with
14 digital.

15 We had in the past, under our interim
16 regs, when we went to the final regs, there was always
17 the issue of, could you release copies of mammograms,
18 or did you have to release the originals? That got
19 clarified in the final regs where it's required that
20 originals be transferred.

21 The issue now is what is the quote unquote
22 original in a digital world. And we have been getting

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1 reports of problems of images that are being sent for
2 comparison of other facilities, where the quality of
3 those hard copy images is not felt to be sufficient,
4 and the idea here would be to try and address that in
5 some manner through this term of what truly is the
6 final interpretation quality of those images? What do
7 they have to meet?

8 So that's part of the issue there.

9 Number nine is, should a definition be
10 added for hard copy image?

11 Show of hands, yes?

12 (Show of hands)

13 DR. FINDER: No?

14 (Show of hands)

15 DR. FINDER: Again it's a yes.

16 DR. SANDRIK: Just to sort of comment, this
17 is something that could be defined in terms of today's
18 technology. I would suggest not doing it, if you try
19 to identify what is the concept of it that you need to
20 define, do that rather than saying it's something like
21 a laser-printed image or other kind of printed image,
22 a list of what's available now but doesn't really -

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1 might not have longevity value.

2 DR. FINDER: We have actually tried doing
3 this both for final interpretation and for hard copy
4 in some of our guidance.

5 If you would look at that, and if you have
6 any suggestions you could get back to us later about
7 it if there is anything specific.

8 Okay, number 10, should we include
9 definitions for lossy and lossless compression?
10 Again, we're in the digital world here.

11 And just a show of hands, yes?

12 (Show of hands)

13 DR. FINDER: No?

14 (Show of hands)

15 DR. FINDER: And yes seems to carry the
16 day.

17 Number 11 deals with mammogram, the
18 definition fo a mammogram.

19 We're asking here, should this definition
20 be expanded to address digital mammography,
21 digitization of screen film mammograms, and the
22 algorithms used for manipulation and compression of

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1 digital mammographic images?

2 DR. BYNG: Can you expand on the intent of
3 what you had in mind with respect to this?

4 DR. FINDER: Well, in the screen film world
5 it's pretty well standardized as to what a mammogram
6 is. It becomes a little bit more confusing when
7 you're talking about digital where you can manipulate
8 these images at various stages.

9 And at what point do you start losing the
10 concept of this being a mammogram? And in effect, it
11 almost becomes a copy, or a degraded portion of a
12 mammogram.

13 So the idea here would be to kind of deal
14 with that issue.

15 The other is the concept of digitization
16 of film screen mammograms. Under our current guidance
17 we have allowed that practice for use for comparison,
18 so that if somebody is, for example, comparing a
19 current digital examination, and wants to look at the
20 old images, we do allow those old images to be
21 digitized so they can be placed on monitors rather
22 than having to view those as hard copy on a view box.

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1 We keep getting questions about, well, can
2 I take those, digitize them, and then destroy the
3 originals and use these digitized versions as
4 retention, and keep those for 10 years?

5 It all comes down to whether these are
6 mammograms or not under the regulations and the law.
7 So these are issues that we are going to have to deal
8 with.

9 DR. SANDRIK: One suggestion that you might
10 consider is something like a primary mammogram and a
11 secondary mammogram, where the primary one can be
12 linked back to the original data acquisition process,
13 and a secondary one might be one that has gone through
14 a second acquisition process, like a digitization
15 process or a copying of any sort. But as long as you
16 have access to the original data from the original
17 acquisition you could call it the primary mammogram.

18 DR. FINDER: We have kind of addressed that
19 in our current guidance. We have said that if you
20 want to digitize a mammogram, that's fine; but you do
21 have to keep the original.

22 We've been getting questions from people

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1 who want to, as I said, digitize the old mammogram
2 and then destroy the original because of storage
3 issues. And this kind of ties into that. If we allow
4 the digitized image to be called a mammogram, the
5 original mammogram, it opens the door for that type of
6 thing. Of course there would have to be standards
7 presumably written for that.

8 But one of the things about definitions
9 here, they carry a lot of weight. Because once you
10 define something it either includes it under MQSA,
11 excludes it under MQSA. So sometimes these words have
12 huge importance.

13 So again I'll ask for a show of hands.
14 Should we try and include or expand the definition as
15 stated her, or at least try to do that?

16 Yes?

17 (Show of hands)

18 DR. FINDER: No?

19 (Show of hands)

20 DR. FINDER: And again it looks like a yes.

21 Next is should we add a definition for
22 mammographic examination?

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1 This really comes up at various times,
2 hasn't come up very recently. But it concerns the
3 issue of counting images usually for either the
4 initial experience or continuing experience
5 requirement.

6 For example a patient gets a screening
7 study and then a diagnostic study in the same day.
8 Are those two exams? One exam? Patient gets a single
9 view as part of an exam, one image. Does that count
10 as much as four view?

11 And just to give you what we've been doing
12 in the past in terms of guidance, we basically have
13 allowed the situation where if they're getting a
14 screening and a diagnostic, those can be counted as
15 two exams. If they are getting even a single view on
16 a day, a single image, that would count as the exam.

17 But it hasn't been formalized in
18 regulation. It has been kind of dealt with through
19 guidance. And as we keep being told through the
20 lawyers, if you can put it into regulation, if you are
21 sure it's something that you want to do, it's better
22 to do that, then you can enforce those things, you

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1 don't have to deal with questions about it, or at
2 least not as many questions.

3 So the question is, should there be a
4 definition added for the term, mammographic
5 examination?

6 Yes?

7 (Show of hands)

8 DR. FINDER: No?

9 (Show of hands)

10 DR. FINDER: Take that as a yes.

11 Okay, now we're dealing with the term,
12 mammographic modality. And the question is, should
13 this definition be modified to include full field
14 digital? Tomosynthesis? Or breast CT? And as a
15 corollary to that, should we also take zero
16 mammography out of this definition at this point?

17 DR. TIMINS: I am concerned that
18 tomosynthesis and breast CT are not routinely
19 performed in a lot of institutions, and do not
20 represent the current standard of care, so I would be
21 hesitant to put them into the regulation.

22 DR. FINDER: Okay, this actually carries

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1 over to another question, which we deal with a little
2 bit later, and that is whether we should regulate
3 these things at all under MQSA. So this question is
4 tied to that question.

5 I guess we can discuss the whole issue of
6 whether we should regulate these issues at that point.

7 This question really ties down to, if we
8 make an assumption that these will be regulated, would
9 we try and include them as a new mammographic
10 modality? In effect what that says is that anybody
11 who would use one of these modalities would have to
12 get the eight hours of training before they could do
13 it.

14 So you're right, it basically goes to the
15 bigger question; we're talking about the smaller
16 question. If we decided to regulate it, would we want
17 to treat it just as we do FFDM with the same type of
18 requirements, basically the eight hours of initial
19 training?

20 DR. TIMINS: I am pretty familiar with the
21 American College of Radiology guidelines and standards
22 program. And I have reviewed guidelines for

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1 diagnostic mammography and screening mammography.

2 To my knowledge there is no guideline for
3 the performance and interpretation of tomosynthesis or
4 breast CT. There is a guideline for breast MRI.

5 I think that I would be very hesitant - in
6 fact, I would not recommend including in the
7 regulation procedures for which there is not a
8 standardized procedure, or a standard of care.

9 DR. SANDRIK: I think one thing that
10 complicates this question is that we really don't have
11 a definition of what a modality is. We have a list of
12 examples, but why screen film mammography is a
13 different modality from zero mammography, or digital
14 mammography is a different modality from the other
15 two, or any of these others are different modalities
16 is not at all clear.

17 And I think maybe the first requirement is
18 to define what a modality really is. Then you can
19 address the issues of whether they belong or don't
20 belong as new modalities.

21 DR. FINDER: Good point.

22 Okay, let's have a show of hands, should

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1 we include this in the definition?

2 Yes?

3 (Show of hands)

4 DR. FINDER: No?

5 (Show of hands)

6 DR. FINDER: Take that as a no.

7 DR. HENDRICKS: Just by way of additional
8 discussion, can we modify that then to include just
9 the digital and exclude the tomosynthesis and the
10 breast CT, because that would definitely alter my
11 answer to that question?

12 DR. FINDER: Sure.

13 DR. WILLIAMS: Yes, for example, we could
14 replace zero mammography with small field of view
15 digital, but omit the other two.

16 DR. FINDER: All right, let's rephrase then
17 the question.

18 It comes down to now, should we delete
19 zero mammography from this definition?

20 Yes?

21 (Show of hands)

22 DR. FINDER: No?

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1 (Show of hands)

2 DR. FINDER: That's a yes.

3 Should we include full field digital?
4 Again, as an example, and then to look at the issue
5 about coming up with a real definition.

6 Include full field digital, yes?

7 DR. BYNG: Are we taking into consideration
8 John's comments about making sure that we get a proper
9 definition fo modality?

10 DR. FINDER: Yes.

11 All right, so that's a yes to include full
12 field digital.

13 Okay, number 14, which I'm sure will go
14 very quickly. Should the definition for mammography,
15 which currently excludes interventional, should that
16 exclusion be deleted?

17 Let's ask for a show of hands just to see
18 where we are in the beginning.

19 Should that exclusion be deleted in effect
20 saying that we should regulate interventional
21 mammography under MQSA?

22 Yes?

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1 (Show of hands)

2 DR. FINDER: No?

3 (Show of hands)

4 DR. FINDER: All right, consensus, while
5 it's somewhat split, the majority is a no.

6 Yes?

7 DR. TIMINS: Now the issue of accreditation
8 for stereotactic biopsy is a very specific issue.
9 Interventional radiography, all biopsies, is a very
10 general issue.

11 I would like to support regulation of
12 stereotactic biopsy.

13 DR. FINDER: Okay, we'll ask that as a
14 separate question then.

15 Okay, so we've got a not for the global -

16 DR. ISRAEL: Is it appropriate at this time
17 to make some comments about the issues regarding
18 regulation of stereotactic breast biopsy?

19 I was before this committee approximately
20 10 years ago testifying, not as a member of the
21 committee, but regarding stereotactic breast biopsy
22 and regulation.

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1 And at that time there was pretty good
2 consensus that it should not be regulated at that
3 time, 10 years have passed, as Dr. Dershaw has pointed
4 out.

5 I guess I have devoted the last 15 years
6 of my life to incorporating stereotactic breast biopsy
7 into standard medical practice, and it has not been
8 easy. Because stereotactic breast biopsy did not fit
9 well into either radiology or into surgery. It - I
10 refer to it as a homeless technology.

11 It didn't fit into radiology because the
12 radiologists had never done breast biopsies. It
13 didn't fit well into surgery, because surgeons didn't
14 have image interpretation training.

15 So it's been a real struggle. But I want
16 to sit here and say that I am very proud of
17 radiologists and surgeons for taking this technology
18 to the point that it has been taken today. I think
19 that everyone involved in that needs a round of
20 applause and a lot of credit, because it has not been
21 easy.

22 But what it has done is, it has kept women

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1 out of the operating room. It has allowed us to make
2 a diagnosis with minimum invasive surgery.

3 I have found - I have searched my mind for
4 reasons to regulate the interventional part of this
5 issue, and I cannot state any problems.

6 Now, sure, there are going to be
7 individual cases where the technology has not been
8 performed correctly, as with any type fo intervention.

9 But I think overall it has been amazing, both
10 radiology and surgery, how this technology has been
11 integrated and how well it has performed.

12 So I do think there should be
13 accreditation. There should be quality assurance.
14 And there are organizations from the medical
15 professional community, and I've got a list here now
16 that have already endorsed an effort put on by the
17 professional organizations, the College of Surgery,
18 the College of Radiology, the National Cancer
19 Institute, the National Consortium of Breast Centers,
20 to accredit breast centers and to put in quality
21 assurance measures for specifically for stereotactic
22 breast biopsy.

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1 I think that work is already being done,
2 and I would leave it, I would be in favor of leaving
3 that with the professional medical organizations
4 rather than regulate it by the FDA.

5 MS. VOLPE: What about the wire-guided
6 procedures? Should they be included?

7 DR. FINDER: Well, that's a very good
8 question, and that's one of the differentiations I
9 think that we were just getting to in terms of the
10 difference between interventional mammography and
11 stereotactic biopsy.

12 Interventional mammography would include
13 not only stereotactic but needle localization and
14 other procedures that are done under image guidance
15 such as galactograms, which are not very frequently
16 done, but they do exist.

17 I heard at the beginning of this we were
18 talking about regulation interventional. The
19 consensus seemed to be no for interventional, and that
20 we would then look at stereotactic. If we say no to
21 interventional, that basically excludes out the needle
22 localization procedures from regulation.

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1 As we heard earlier this morning, the ACR
2 program focuses in on stereotactic breast biopsy. It
3 does not look at needle localizations. They have not
4 established an accreditation program for that.

5 And as far as I know no one has.

6 DR. WILLIAMS: But aren't some needle
7 localizations done under stereotactic guidance?

8 DR. FINDER: That is true. There is a
9 mixing of those technologies. But again, yes, that is
10 true. Leave it at that.

11 DR. ISRAEL: Just one other brief comment,
12 in terms of expansion fo this technology, just around
13 the corner we are going to be ablating cancers using
14 image guidance with different energy forms such as
15 radiotherapy and cryo and laser, and I think all of
16 these - this is going to be a very big umbrella that -
17 and I don't know where we would begin to draw the line
18 here.

19 DR. TIMINS: When you do a stereotactic
20 needle biopsy, the end result is the tissue you get
21 during the procedure. So the quality of the image,
22 the approximation of the biopsy device to the tissue,

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1 and the specimen radiographs are extremely important.

2 When you do a needle localization
3 procedure, where you're putting a needle and a wire
4 through a needle into an area of tissue to assist the
5 surgeon, the ultimate result is the tissue the surgeon
6 takes out, so that it's a different end point. If you
7 miss it on a stereotactic biopsy, you have missed it.

8 When you put in a localization device, a wire, to
9 assist the surgeon, then the amount of tissue depends
10 to some degree on the surgeon and you do indeed
11 confirm whether or not you've got the lesion with X-
12 rays subsequently. But there is more of the - more
13 leeway in how - in the relationship of the needle and
14 the lesion.

15 That's why the quality control in
16 stereotactic biopsy is so critical. So I would argue
17 that they are different; that the need for quality
18 control on the imaging end is higher for the
19 stereotactic biopsy.

20 DR. MONTICCIOLO: I agree with Dr. Timins.

21 Also I don't think there is any need to regulate wire
22 localization because the people doing it and the

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1 equipment that is used is already fully regulated by
2 the FDA.

3 We use standard mammographic units, no?

4 DR. FINDER: No, interventional mammography
5 is excluded from MQSA regulations right now. While
6 somebody who is using, let's say a mammographic unit
7 for needle localizations, if they are also using it
8 for regular mammograms, yes, that would be covered.
9 However, if they are using it strictly for needle
10 localizations that was a dedicated unit only to that,
11 we do not regulate that type of unit.

12 DR. MONTICCIOLO: Okay, I understand what
13 you are saying, but I can't image that that is a very
14 common occurrence. Or do you know it to be a common
15 occurrence? Because it's hard to maintain a unit for
16 only that purpose, so almost everybody if you are
17 going to buy a unit that expensive, you would use it
18 for regular mammography as well I would think.

19 DR. FINDER: We don't have any data on how
20 often that happens. We have anecdotal cases where we
21 do know that it does happen where a unit is dedicated
22 to a purpose, sent into a room, and it's only being

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1 used for interventional. And part of the reason for
2 that is, they don't want to get that accredited
3 because of the cost, and the fact that they would have
4 to do a fairly large number of patients to go through
5 the accreditation process to get the films for that.

6 So there is a disincentive to try and get
7 it both accredited under MQSA and to use it for
8 interventional in some sense. So there are definitely
9 units out there that are being used just dedicated to
10 needle which are not regulated.

11 DR. TIMINS: I agree with Dr. Finder. I
12 don't know of specific instances. But for a lesion
13 that is obvious, that's conspicuous mammographically,
14 you wouldn't need the same quality image necessarily.

15 You might take an old unit that you don't have a
16 technologist assigned to on a routine basis and do a
17 localization procedure there very competently, and not
18 slow down your diagnostic mammography unit.

19 I could see how that could happen and not
20 adversely affect patient care.

21 DR. HENDRIKS: I have a comment related to
22 the regulation of stereotactic, looking at the ACR

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1 data. Because remember that is a voluntary program,
2 and the pass rate is relatively low. And that's on
3 best image, and that does raise my concern.

4 These facilities and units, where their
5 best images for stereotactic placement were submitted,
6 and the pass rate was 60 percent. I have to believe
7 in my practice that that is going to have a clinical
8 impact on the patients if the image quality is
9 unacceptable in a third of the voluntary participants.

10 DR. FINDER: This exact issue was brought
11 up at the last meeting too where we discussed some of
12 this.

13 One of the questions that comes up - and
14 we didn't have any data at that time; I don't believe
15 we have any data at this time either - is what does it
16 mean to fail those images during that clinical review?

17 The question is, do they actually get the lesion?
18 And was the biopsy confirmatory and satisfactory?

19 And unfortunately that information wasn't
20 available at that time, and it still is not available
21 from ACR. So the fact that a clinical image may have
22 failed that review doesn't necessarily mean that the

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1 diagnosis wasn't made.

2 And that's one of the other
3 considerations, if we do go ahead with regulation of
4 interventional or stereotactic should the focus be
5 changed from equipment, some of these procedures, to
6 an outcomes-based situation?

7 So you're dealing with a somewhat
8 different situation than typical mammography where the
9 result isn't known right away. In stereotactic you
10 know whether you've gotten a lesion, whether you've
11 gotten concordance. Should we focus, if we decide to
12 do regulation, should we focus on that instead of some
13 of these other issues?

14 DR. TIMINS: Part of a quality review
15 program for breast biopsy should indeed conclude
16 concordance of findings and concordance means that the
17 pathology tissue results makes sense in the clinical
18 context, so that if you see a lump, and your biopsy
19 comes back, normal breast tissue, that is not
20 concordance; that is discordance, just to help
21 others who are not familiar with the term.

22 Whereas if the biopsy comes back,

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1 fibroadenoma, which is a type of benign breast tumor,
2 then that makes sense.

3 So I think that if it is indeed included
4 in the regulation, that one of the criteria should be
5 a determination of concordance of results.

6 DR. HENDRIKS: I just had a follow upon the
7 ACR data. When the studies were looked at for quality
8 review, we are still just talking technically about
9 clip placements. I would imagine. Because - can
10 Penny speak to that? Were the films assessed on the
11 accuracy of clip placement in a targeted lesion?

12 MS. BUTLER: Penny Butler, ACR. The images
13 were assessed with regards to the needle placement.
14 So this is stereotactic, and they are looking at the
15 prefire images, post-fire images, and where the needle
16 is in relationship to the lesion that they're going
17 after.

18 And the failures in most cases as you can
19 see from the data has to do with the needle not really
20 being close to where the lesion is, and the impression
21 that this is at their best work.

22 DR. FERGUSON: I'd like to ask, he put up

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1 the slide, and I don't know that I fully understood
2 the failure rate on first attempt deficiencies. There
3 was a 63 percent - what were those first attempt -

4 MS. BUTLER: The first attempt
5 deficiencies, the first time that a facility applied
6 for accreditation with that unit.

7 DR. FERGUSON: But 63 percent were in one
8 category. What was that category?

9 MS. BUTLER: The failures are the total
10 number of failures, and then the pie chart that is
11 shown after that sort of breaks it out between
12 clinical failure versus phantom failure, or a
13 combination of failures. The 63 percent was the
14 combination of both clinical failures and phantom
15 failures. The gist of the slide was that roughly a
16 third of the failures were on a technical basis, and
17 about two-thirds involved clinical problems.

18 DR. FERGUSON: I was trying to get to the
19 pre-fire - people really submit images with the needle
20 in the wrong place?

21 MS. BUTLER: You'd be surprised.

22 Are you referring to this chart here?

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1 DR. FERGUSON: I was just curious, if that
2 many people failed on actually having the needle in
3 the wrong place, and they submitted those images
4 saying that this is our best work, and they were
5 failed on that basis, did that happen? And was that a
6 large number?

7 MS. BUTLER: By the way this is not 63
8 percent of everybody going through accreditation.
9 This is 63 percent of all the failures.

10 And it's happening. Now, when they repeat
11 the test, because we require them to submit additional
12 images, and they do pass, they finally get the point.

13 DR. MONTICCIOLO: But what percent fail?
14 Because this is 63 percent of the number who did fail
15 on first attempt.

16 MS. BUTLER: Yes, if you look in 2005, out
17 of all the facilities going through accreditation,
18 it's about just short of 35 percent.

19 DR. HENDRIKS: So although these experts
20 are not reviewed positions, I do believe that that is
21 going to have clinical impact, that percentage of
22 failure at best effort, if it took place - if the

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1 lesion was not targeted, irrespective of the pathology
2 of course.

3 DR. TIMINS: When you look to the quality
4 of mammography prior to MQSA, and you look at the
5 quality of mammography now, there have been many
6 quantum leaps in the development of quality
7 mammography.

8 I think if we do promote, including
9 stereotactic biopsy in the regulation that you will
10 see a similar improvement in the quality of the
11 stereotactic biopsy performance.

12 DR. BYNG: Do we have any data about the
13 scope of the quality problem, then, in any of these
14 procedures?

15 DR. ISRAEL: Are you referring to what type
16 of measurement of quality? I'm not quite sure what
17 you're asking.

18 DR. BYNG: Exactly. I think the question
19 really is, we're talking about providing a quality
20 control program to regulate potential quality
21 problems. And I'm trying to understand what the scope
22 of the quality problem that is trying to be addressed

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1 here.

2 DR. ISRAEL: My impression of the quality
3 issues, one measurement that we have that is universal
4 is litigation. And I have monitored litigation issues
5 with mammography and stereotactic breast biopsy. And
6 stereotactic breast biopsy, even though not perfect -
7 there will be failures - I think has been carried out
8 very well, and the litigation rate with stereotactic
9 breast biopsy is exceedingly low compared to
10 mammographic interpretation.

11 DR. FINDER: This is Dr. Finder. Just
12 wanted to - I think you're getting at, in terms of the
13 scope of the problem, maybe one way to address it is,
14 how many of these lesions are missed at biopsy? And I
15 don't have any hard data, but I believe that the data
16 would support a miss rate of about two percent or so
17 where there is nonconcordance between what is obtained
18 on pathology versus what they were going after at the
19 lesion.

20 So again that's more of an outcomes-based
21 type of an issue, and it may be the one that is of
22 most importance to the patient, did they get the

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1 lesion that they were going after when they went after
2 it, or does the patient have to be redone?

3 And I think the numbers - and maybe Dr.
4 Israel can have some other information about this -
5 but I think we're talking about a two percent, which
6 is similar to the surgical rate of missed biopsy?

7 DR. ISRAEL: Yes, I think the figure of two
8 percent is probably accurate. And that is really
9 controlled by a concordance, as Dr. Timins mentioned,
10 if we get a benign diagnosis, and the lesion looks
11 suspicious on the mammogram, and we've missed it, if
12 we recognized the discordance then we're going to do
13 another biopsy.

14 And of course that happens in the
15 operating room as well as in the stereotactic room.

16 DR. TIMINS: Also another function of
17 stereotactic biopsy or needle biopsy in general is
18 just to confirm a highly suspected malignancy so that
19 more definitive treatment, surgery, can be performed
20 in one fell swoop rather than on two occasions.

21 There was a question about the placement
22 of the clip and how that might be considered a quality

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1 procedure. Clip placement is not as crucial in the
2 determining of quality because there are a number of
3 things that affect clip placement. Clips can migrate.

4 If there is bleeding, with the hematoma, the clip may
5 not ultimately be as close to the biopsy site as
6 intended.

7 So and then there are -- many
8 circumstances where clips are not used.

9 DR. FINDER: Okay, so let me go back and
10 again ask the questions, should the exclusion for
11 interventional be deleted?

12 And again, to clarify, interventional now
13 we're talking about the wide range which would include
14 needle localization.

15 So should that exclusion be deleted?
16 Should we regulate interventional as a wide area?

17 Yes?

18 (Show of hands)

19 DR. FINDER: No?

20 (Show of hands)

21 DR. FINDER: I would say it's kind of
22 split, with more toward no.

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1 Now for this specific question about
2 stereotatic biopsy, should that be regulated?

3 Yes?

4 (Show of hands)

5 DR. FINDER: No?

6 (Show of hands)

7 DR. FINDER: And it's kind of a little bit
8 split, but basically yes.

9 We add a definition for what a mammography
10 system component is. Let me give you some of the
11 background on this.

12 Currently for film screen it's been fairly
13 well established that a mammography equipment
14 evaluation needs to be performed on a new piece of
15 equipment, such as a new mammographic unit, and a new
16 processor.

17 It is not as clearcut for FFDM, for full-
18 field digital. And the question comes up, does a
19 medical physicist have to go out and do testing on
20 every printer, every monitor, the various components
21 of an FFDM system?

22 Again, because of FFDM, the ability to

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1 separate out the various functions in different pieces
2 of equipment, it's much greater than in film
3 screening.

4 So the idea behind these two questions,
5 should we create a category of equipment that would
6 not require the medical physicist to go out to the
7 site, but to have the testing performed under what we
8 call medical physicist oversight, where personnel at
9 the facility who had adequate training could perform
10 the testing, and then just have it reviewed by the
11 medical physicist, rather than the physicist actually
12 going on site.

13 Again, it becomes a much greater problem
14 with full-field digital, with the idea of telling
15 mammography where the facility may be in one state and
16 the monitor where it's being read may be in a totally
17 different state.

18 So that's kind of the background behind
19 these two questions about modifying the definitions.

20 And I would ask if anybody has any
21 questions about anything?

22 DR. SANDRIK: Yes, I guess you added a new

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1 interpretation that I didn't see at first. I thought
2 the main focus was to simply bring the definition of
3 medical physicist oversight on guidance into the
4 regulation.

5 And I believe that's a good idea. It
6 seems to have worked well. The idea of then trying to
7 subdivide the system into components, particularly if
8 you are trying to do that in regulation, adds
9 complexity that is probably not necessary.

10 And again you can go back to the guidance
11 where you've provided some guidance on what are
12 components, what level the physicist is needed there,
13 and what medical physicist oversight is sufficient.

14 So I think the idea of bringing forth the
15 definition into the rules I think is a good idea. I
16 think trying to identify which component it applies to
17 within the rules is probably adding needless
18 complexity.

19 DR. FINDER: Actually, footnote 19 is
20 specifically dealing with, should we add a definition
21 for medical physicist oversight.

22 So all three questions are actually

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1 related. I will say that the guidance that we've
2 issued about medical physicist oversight can only go
3 so far.

4 If you take a look at the guidance that we
5 have, it deals with under what conditions is medical
6 mammography equipment evaluation required? If it is
7 required as the regs are currently written, the
8 medical physicist has to go out and do an on site
9 evaluation.

10 The guidance we've issued deals basically
11 with what type of repair beyond which you are into
12 that mammography equipment evaluation? Once you reach
13 that level we don't have any leeway. And that's the
14 idea behind putting in for medical physicist
15 oversight.

16 And then, as pointed out, with FFDM, we
17 have various components. Do you believe that if a new
18 monitor is set up, does the medical physicist have to
19 go out there? Does he have to go out for a new
20 printer?

21 Right now if we - if somebody gets a new
22 printer, they have to have a medical physicist go out

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1 and review it. That's the idea behind trying to
2 separate these things. And it will make it more
3 complicated, but we've been hearing about questions
4 from the field out there, questions from medical
5 physicists saying, why am I traveling hours to go look
6 at a printer that I'm going to run a test on that
7 somebody else could have done and just sent me the
8 results and I could have looked at it?

9 So it is going to make it more complex;
10 there is no question about that.

11 MS. VOLPE: I'd be interested in Dr.
12 Williams' take on that.

13 DR. WILLIAMS: Well, I think that the
14 intention here is absolutely correct, which is that it
15 is a complicated thing. And the problem is going to
16 come when we try to specify exactly which things need
17 onsite involvement of the physicist.

18 Because even if you specify a particular
19 component, say the laser printer for example, if that
20 is switched out, there may be pieces of the laser
21 printer that are changed. And the ability to have
22 someone remotely feed information back to say for

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1 example the physicist who is not onsite may vary
2 depending on what the particular nature of the problem
3 is.

4 And so I think it's a well intentioned
5 thing that is going to be very difficult to specify.

6 DR. SANDRIK: Is my recollection of the
7 mammography equipment evaluation regulation, as it's
8 written, all it says is major repair. And that is not
9 specified in any detail in the rule either.

10 And then it goes back to guidance, and it
11 says, this we've declared as a major repair, and this
12 is not a major repair.

13 So I think, again, that provides some
14 guidance to the physicist, if there is something
15 different.

16 And some have wondered about, like your
17 example of the laser printer, if that necessarily has
18 to be a medical physicist's visit, if it's determined
19 that it is not a major repair.

20 DR. FINDER: Correct. The guidance that
21 we've issued addresses the issue about when a repair
22 becomes a major repair and has to have an equipment

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1 evaluation done.

2 However, the reg is pretty clear about the
3 fact that when you get a new piece of equipment you
4 don't have any option.

5 And we can address the issue about what a
6 major change is, what a major repair is, in guidance,
7 and we've done that with processors, and FFDM pieces
8 of equipment already.

9 It's the issue about new pieces of
10 equipment that the way the reg is written now it
11 basically requires that the physicists go out and
12 examine it.

13 And it's an issue that we've even got with
14 screened film, a problem where there will be a remote
15 processor maybe hours away from the main site, the
16 medical physicist has to travel out there to do some
17 tests that at least from what we hear back from some
18 of the physicists could have been done by the
19 technologist and then have oversight of the films that
20 were generated from those tests.

21 And it's a significant change, it would be
22 a significant change to the regulations.

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1 DR. MOURAD: And again part of the issue is
2 whether or not unambiguous data can be given to the
3 physicist who is not there. For example if you need
4 to go and evaluate whether or not a fairly subtle
5 artifact still exists or not, that may be something
6 that requires the physicist to be there, because he
7 has to look at - he or she has to look at the monitor.

8 On the other hand if it's a case of not
9 tracking properly, and it's a matter of putting a
10 series of stacks of acrylic in and identifying what
11 the contrast to noise ratio, that's something that is
12 fairly unambiguous.

13 DR. FINDER: Right, and those are the
14 issues we've been trying to deal with. Certainly a
15 large number of the tests seem to be able to be
16 performed remotely, and then the results reviewed.
17 And that's what we're trying to get at here.

18 And it's going to be difficult.

19 DR. BYNG: It might have some association
20 to exactly how medical physicist oversight is defined.
21 But the test is actually being performed, and it's
22 probably at the discretion of the medical physicist

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1 whether the test should be performed under oversight
2 or whether they should travel there.

3 And I think that it's more than a question
4 of can we get the medical physicist to make a right
5 assessment in advance, or to take the right action
6 once they've seen the data.

7 DR. FINDER: Let me clarify. The idea of
8 medical physicist oversight actually has been
9 addressed in our guidance. And it does go along with
10 the idea of allowing the option fo a medical physicist
11 to go out there, certainly if he or she feels that
12 it's necessary.

13 But the major part of it is that personnel
14 who are trained to perform these procedures, other
15 than the medical physicist, could do those, get the
16 results to the medical physicist who reviews the test
17 data, and makes a determination on whether those tests
18 have been passed, or whether he has to go out and
19 actually look at the equipment at that point. So it
20 basically gives more flexibility to the situation.

21 DR. TIMINS: I would like to speak in favor
22 of that modification to allow medical physicists

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1 oversight for mammography system components, just as
2 the physician is the head of the clinical effort and
3 takes responsibility for the clinical aspects, the
4 medical physicist is in charge of those components and
5 is in a position to determine whether it's adequate
6 for the technologist to perform certain of the testing
7 and quality examinations, and I think that we could to
8 some degree trust to the professional judgment of the
9 physicist.

10 DR. FERGUSON: And I would agree with what
11 she just said, and also realize that they are going to
12 do these tests, they're qualified to do the tests,
13 they are going to submit them to the physicists. The
14 physicist may determine whether he needs to come out
15 right then or not, but he's going to come out and see
16 everything once a year anyway. So you will know, it's
17 not like you put it in and it will never be looked at.

18 DR. MOURAD: Yes, I think one of the
19 problems is that a lot of these things will not fall
20 either clearly on the side of a major equipment
21 replacement, a tube or something like that, versus
22 something that is a software change or something like

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1 that that really doesn't require, obviously, the
2 physicist.

3 But within that gray area there will be a
4 broad range, an obvious artifact that is a big stripe
5 across something is either there or it's not, to a
6 large degree. But something, the underlying cause of
7 that artifact may not at all be a very clear thing.
8 And so if the artifact disappears, then that's one
9 thing. If the artifact just changes in its nature, or
10 doesn't disappear, then that's a whole other thing,
11 and it probably needs a visit.

12 So this is going along with the last two
13 comments, which is, I think it needs to be a
14 physicist's call to a certain degree based on the
15 nature of the problem.

16 DR. FINDER: All right, so let's go through
17 these related footnotes here.

18 First one is should the definition be
19 modified to specifically allow for medical physicists
20 oversight for mammography system components?

21 Yes?

22 (Show of hands)

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1 DR. FINDER: No?

2 (Show of hands)

3 DR. FINDER: Take that as a yes.

4 Should a definition be added for
5 mammography system components?

6 Again, a show of hands for yes?

7 (Show of hands)

8 DR. FINDER: No?

9 (Show of hands)

10 DR. FINDER: Okay, that's a little bit
11 split, but basically a yes.

12 Should a definition be added for medical
13 physicists' oversight?

14 Yes?

15 (Show of hands)

16 DR. FINDER: No?

17 (Show of hands)

18 DR. FINDER: And that's a yes.

19 Okay, very good. I know, we're going back
20 to 18. And the footnote actually is somewhat
21 misleading, unfortunately. It's not, should a
22 definition be added for mean optical density, but

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1 should it be modified to deal with the specifics of
2 mean optical density in terms of performing the AEC
3 test, the AEC meaning automatic exposure control.

4 DR. SANDRIK: I'm still confused, because
5 that seems to be basically what the definition relates
6 to.

7 DR. FINDER: Let me work on that a little
8 bit.

9 Talk amongst yourselves. Let's take a
10 two-minute break.

11 (Whereupon at 9:31 a.m. the proceeding in
12 the above-entitled matter went off the record to
13 return on the record at 9:37 a.m.)

14 DR. HENDRIKS: We'd like all the members of
15 the committee to take their seats so we can resume.

16 Okay we're going to resume by Dr. Finder
17 resuming the quality standards - we're going to return
18 to the definition of mean optical density.

19 DR. FINDER: Okay, I did find my note on
20 there. And it's basically to clarify in the
21 definition again that it's the mean optical density is
22 measured during the AC performance test in a given

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1 equipment configuration, to clarify that it's not over
2 multiple different configurations.

3 So again it's more clarification. It's
4 not an addition really.

5 So if we can have a show of hands, should
6 we go ahead and clarify?

7 Yes?

8 (Show of hands)

9 DR. FINDER: No?

10 (Show of hands)

11 DR. FINDER: And that's a yes.

12 Moving to page seven for the definition of
13 positive mammogram, should the definition be modified
14 to add cases where a biopsy is recommended.

15 Right now positive mammogram is one that
16 is read out of suspicious or highly suggestive
17 maglinancy. Should that definition be changed to
18 include, or where a biopsy is recommended?

19 And a show of hands, yes?

20 (Show of hands)

21 DR. FINDER: No?

22 (Show of hands)

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1 DR. FERGUSON: I'd like some discussion on
2 that. Have we had tell me - give me some for
3 instances.

4 DR. FINDER: The issue comes down to, the
5 way the current regs are written, reporting
6 requirements are different if it's basically a
7 positive mammogram. If it's suspicious or highly
8 suggestive, the report has to go out under regulation
9 as soon as possible.

10 If somebody for example read out a case as
11 benign but still recommended a biopsy, or negative and
12 still recommended a biopsy, that report right now
13 could go out in 30 days if we modified this to make it
14 a positive mammogram, that report would have to go
15 out, quote unquote, as soon as possible.

16 Another issue is that report, that
17 examination, which has to be included in the medical
18 outcomes audit, because again, only positive cases
19 under regulation have to be included. So that would
20 entail a situation where if somebody had asked for a
21 biopsy or suggested that it's a reasonable
22 possibility, they would have to track that case.

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1 Yes?

2 DR. TIMINS: Could I ask for some
3 clarification on the BIRADS? I know that there`s
4 BIRADS for ABC where 4A is more likely - less likely
5 to be malignant.

6 Are there other categories of BIRADS 3?
7 BIRADS 3 is just probably benign, recommend short
8 interval follow up, generally six months.

9 DR. FERGUSON: So you're getting at where
10 we give an assessment that is not highly suspicious,
11 or suspicious but at the same time, we may say, the
12 mammogram is negative but the biopsy is suggested. If
13 there is a palpable mass that you don't see on the
14 mammogram, then what we'll just do is track that as an
15 auditable case.

16 DR. FINDER: It'll do two things basically.
17 One, it'll make it a requirement that this be
18 included in the medical outcomes audit. And two, the
19 report would have to get out as soon as possible.

20 DR. HENDRIKS: But there is that caveat
21 that a lot of the reports that I see say that the
22 decision to biopsy be based on clinical grounds only.

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1 And would that then encompass all of those
2 mammograms?

3 DR. FINDER: It depends on how we word
4 this. That's a good question. If there is some type
5 of recommendation for a biopsy, the question is, does
6 it kick it over into the positive category.

7 And I have seen some reports where they
8 say, if you feel like you want a biopsy you can go
9 ahead and biopsy, or not. It does raise some issues.

10 Yes.

11 DR. TIMINS: And your comment, Dr. Finder,
12 is a very pertinent one, because there are a lot of
13 reports that come out with that caveat of if clinical
14 indicate biopsy should be considered, but the
15 mammogram doesn't support that.

16 So I would be hesitant, now that you have
17 brought that up, I would be hesitant to include BIRADS
18 categories that are not either suspicious or highly
19 suspicious, four or five.

20 DR. FINDER: Okay, so let's see a show of
21 hands. Should we modify the current definition to
22 include cases where biopsy is recommended?

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1 Yes?

2 (Show of hands)

3 DR. FINDER: No?

4 (Show of hands)

5 DR. FINDER: So we have a split but
6 basically more no.

7 Next one is, we have a definition for what
8 a qualified instructor is. Should the definition be
9 modified to require additional instructor requirements
10 in cases where corrective action is being done?

11 The current definition basically covers
12 two different cases right now. It covers the routine
13 average standard type of training that one would get
14 in any type of course and we have established who
15 might be a qualified instructor.

16 But the other issue that sometimes comes
17 up is a case where we have a problem facility and they
18 have to undergo some type of corrective action,
19 usually asked for by the accreditation body, what
20 should be the qualifications for those type of
21 instructors who are teaching at a problem type
22 facility?

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1 Should there be added requirements to the
2 qualifications of those personnel?

3 Yes?

4 DR. SANDRIK: Is there any indication that
5 they are in a corrective action situation because of
6 the inadequacy of the original instructors?

7 DR. FINDER: Well, that's a good question,
8 but those original instructors might have been 10, 20
9 years before. We are never going to find those
10 people.

11 The real kind of type issue comes up right
12 now, qualified instructors could be, for example, for
13 a mammography technologist, another qualified
14 mammography technologist can give that type of
15 instruction.

16 The situation could arise where let's say
17 one facility is under some type of corrective action
18 from the accreditation body, another one of their
19 facilities is not under that type of situation, and
20 they could call in one of their other techs from that
21 facility to retrain the ones at the problematic
22 facility, and under a qualified instructor right now

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1 that certainly would be allowed, because once you are
2 a tech you are qualified to do this type of training.

3 Don't ask me what kind of qualifications
4 we would ask for at this point.

5 I think those are -

6 MS. MOUNT: Dr. Finder, who could train a
7 tech's position if it wasn't a tech? I mean a
8 physician can't train a tech position.

9 DR. FINDER: Correct, and the question
10 really here is not that we would be asking the
11 physicians to train the techs, it is, should we be
12 requiring a tech who has additional type training in
13 teaching these things to be training problem techs who
14 have already gotten a facility into problems.

15 And I don't mean to pick on the techs.
16 This would also apply to medical physicists, and apply
17 to physicians in those types of cases.

18 Yes?

19 DR. TIMINS: I think this is fraught with
20 difficulties. I would speak against it.

21 DR. FERGUSON: I would be concerned about
22 the number of whatever standards you set being

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1 available and being timely available. Because most of
2 the time when you say you've got to go do another 40
3 mammograms, finding, if you've got two people in my
4 state that do it, and coordinating times to do it, you
5 may be down six months trying to get somebody there.

6 I think it's fraught with -

7 MS. MOUNT: Plus it would probably be added
8 expense to bring someone in to do it.

9 DR. FINDER: Okay, so should we have a show
10 of hands? Should we modify the definition to require
11 additional requirements?

12 Yes?

13 (Show of hands)

14 DR. FINDER: No?

15 (Show of hands)

16 DR. FINDER: That's a no.

17 Should we add a definition for repeat rate
18 and reject rate?

19 And this involves one of the quality
20 control tests, the repeat analysis as currently
21 written, there is some confusion about that, and I
22 believe we'll get into the specifics of that when we

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1 get to the QC section itself.

2 So maybe we should just wait on these
3 definitions, because it may become clear once we
4 actually get to the QC issue itself.

5 MS. VOLPE: Dr. Finder, I think you should
6 add them just for the benefit of the consumers on the
7 panel or anybody else from the public that might be
8 reading the document.

9 DR. FINDER: Okay. So let's see a show of
10 hands.

11 Should we make definitions for these?
12 Yes?

13 (Show of hands)

14 DR. FINDER: And no?

15 (Show of hands)

16 DR. FINDER: Okay, so that will be a yes
17 for both, number 22 and 23.

18 Next page, should there be a definition
19 added for requalification? The issue that comes up,
20 and has come up in the past, is although the
21 requalification process is described in the pertinent
22 personnel section, there tends to be a

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1 misunderstanding, at least there has been in the past,
2 what requalification really allows you to do, and what
3 status it places you back in.

4 And it's somewhat unclear to people that
5 requalification just means that it allows you to
6 perform whatever either interpretation or exams or
7 surveys without supervision but it doesn't negate the
8 fact that you are still responsible for meeting
9 continuing requirements.

10 A lot of people think that the clock
11 restarts on your continuing requirement when you
12 requalify, and it doesn't under the current
13 regulations.

14 So the question there is, should we put in
15 a definition there to clarify that aspect of the
16 requalification process?

17 Yes?

18 (Show of hands)

19 DR. FINDER: No?

20 (Show of hands)

21 DR. FINDER: So I'll take that as a yes.

22 Should a definition be added for small-

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1 field digital mammography? We've already got a
2 definition in guidance. It would be a question of
3 putting it in the regulations to clarify that, and a
4 show of hands, yes?

5 (Show of hands)

6 DR. FINDER: No?

7 (Show of hands)

8 DR. FINDER: That's a somewhat split vote,
9 but basically a yes.

10 Should a definition be added for soft copy
11 image?

12 Yes?

13 (Show of hands)

14 DR. FINDER: No?

15 (Show of hands)

16 DR. BYNG: This goes back - sorry, Dr.
17 Finder - this goes back to the discussion that we were
18 having about hard copy image, obviously. So with that
19 discussion was the potential consideration of what it
20 might have you do in addition to making the
21 definition.

22 So is this just the same discussion with

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1 respect to trying to clarify the state of the related
2 information that is needed with each format?

3 DR. FINDER: I think the - as has been
4 pointed out, I think we understand kind of what these
5 things mean right now. We would probably try and look
6 for a broader definition so we wouldn't have to adjust
7 things as new technologies come on.

8 Whether we can do that, I'm not sure. But
9 I'm sure we'll hear about it as soon as you guys get
10 the draft of whatever we come up with, and we'll have
11 plenty of comments at that point.

12 DR. BYNG: Yes, I think that is the
13 concern, is making sure it encompasses new technology.

14 DR. FINDER: It's all in the details. But
15 I'll take that as a yes, qualified yes.

16 Next, should a definition be added for
17 starting date? And here the purpose would be to
18 define a simple term, which basically is kind of
19 addressed in other portions of the personnel
20 regulations, which basically means the date on which
21 somebody meets all the initial qualifications. That
22 is the date at which you're able to read

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1 independently. Again, it's a type of clarification
2 that we're asking for.

3 So should a definition be added for
4 starting date? Yes?

5 (Show of hands)

6 DR. FINDER: No?

7 (Show of hands)

8 DR. FINDER: That's a yes. Number 28
9 refers to a survey, and this is a medical physicists'
10 survey, should the definition be expanded to
11 differentiate between unit surveys and facility
12 surveys?

13 Again, going along with the clarification
14 aspect of this.

15 DR. SANDRIK: Just the observation. I
16 think the regulation on surveys only identifies
17 facility surveys, so as yet there is no rule
18 associated with unit surveys. I'm wondering if you
19 really need the definition.

20 DR. FINDER: Yes, this actually goes back
21 to a portion of yesterday's conversation about whether
22 we should allow counting of these for continuing

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1 requirements and also initial requirements, and it
2 talks about the survey of a unit, number of units, ten
3 units that must be done, six units that have to be
4 done.

5 So even though there is actually no
6 definition here it is referred to in the regulation.
7 That's another reason to put a definition in, to
8 clarify the other section.

9 So show of hands, should we do that,
10 include that definition? Yes?

11 (Show of hands)

12 DR. FINDER: No?

13 (Show of hands)

14 DR. FINDER: Okay, that's a yes.

15 In number 29, should we add a definition
16 for what we consider technique factors?

17 Show of hand for yes?

18 (Show of hands)

19 DR. FINDER: No?

20 (Show of hands)

21 DR. FINDER: I'll take that as a yes.

22 DR. SANDRIK: One comment, it already

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1 exists in the federal performance standards. And if
2 you could copy that it would be appreciated.

3 DR. FINDER: I'll put down, cut and paste.

4 Should a definition be added for the time
5 frequencies for quality control testing? This
6 basically deals with the situation of what does it
7 truly mean to do a test weekly, monthly, quarterly,
8 semiannually, those types of things.

9 And we've already addressed this actually
10 in guidance to clarify what it means to do a test, for
11 example, weekly. Does it mean you must always do it
12 on Monday of that week? Can you do it any time within
13 that week?

14 And again with the monthly and quarterly
15 it's the same thing. Again it's already addressed in
16 guidance. We're asking whether we should put that
17 exact guidance into here for regulation.

18 Yes for that?

19 (Show of hands)

20 DR. FINDER: No?

21 (Show of hands)

22 DR. FINDER: Okay, again that's a yes

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1 overall.

2 Does anybody have any ones they want to
3 add?

4 MS. VOLPE: I have some I'd like to add.

5 On page 15, suggest adding a definition of
6 image receptor.

7 DR. FINDER: Page 15, or do you mean
8 footnote 15?

9 MS. VOLPE: Page 15. That's where I found
10 the item discussed.

11 DR. FINDER: Oh, okay, it's footnote number
12 37, yes.

13 MS. VOLPE: Okay, and also suggest adding
14 craniocaudal and mediolateral oblique.

15 DR. FINDER: Oh, definitions for those
16 things?

17 MS. VOLPE: Yes. Again, for the benefit of
18 those of us who don't have experience in the field.

19 I would also add SID and collimators.

20 (Sound-System Failure)

21 DR. FINDER: Any others?

22 Okay, there was a question from the

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1 audience about whether we should add a definition for
2 computed radiography systems, CR systems, for example,
3 the newly approved Fuji system.

4 And if we're going to do that, then the
5 question comes up, should we have a definition for not
6 only CR but also DR systems, which would be more your
7 standard FFDM type unit.

8 What do people think about that?

9 DR. WILLIAMS: I think it's a good idea if
10 for no other reason than the fact that CR and DR are
11 sort of historical acronyms that people relate to,
12 that they recognize. So I think it's a good idea to
13 try to at least make the bridge between those and some
14 explanation of what technologies they actually refer
15 to. If they're used to it in the context of a
16 different type of exam and this is new to mammography,
17 then I think this is probably worth clarifying.

18 DR. BYNG: One additional comment. It may
19 depend to some extent on how you choose to define
20 modality, and some of the other definitions that you
21 apply, whether you need one in this particular
22 location for CR/DR and other types of radiographic

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1 imaging.

2 DR. FINDER: Right now we've addressed the
3 issue by basically saying that CR and DR systems are
4 all part of the mammographic modality known as FFDM,
5 full-field digital.

6 But it probably would be a good idea to
7 define those or try and get a better definition for
8 what CR and DR systems are.

9 So a show of hands? Should we go ahead
10 with those types of definitions?

11 Yes?

12 (Show of hands)

13 DR. FINDER: And no?

14 (Show of hands)

15 DR. FINDER: Okay, that's a yes.

16 Okay, so we're done with that section.

17 Want to take a break before we begin the last one?

18 DR. HENDRIKS: I think we can go ahead.

19 DR. FINDER: Okay.

20 The last section, last but not least,
21 deals with quality standards for equipment and quality
22 control, which is 900.12B and E, sections that we'll

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1 be looking at begin on page 30, through 34, footnotes
2 74 through 83.

3 And then pages 38 to 46, which are 99
4 through 128.

5 Okay, we'll give you a chance to set that
6 up on the screen. And in the section on equipment,
7 which is the 900.12B we actually start on page 32 with
8 footnote 74.

9 And there the question is, should we
10 include a requirement that all digital components -
11 and that goes again back to the idea of the component
12 definition - be approved or cleared specifically for
13 mammographic use?

14 And what we'd be talking about, at least
15 as examples, would be the image receptors, monitors,
16 printers, digitizers, PAC systems.

17 Yes?

18 DR. MOURAD: It seems like the answer to
19 that would probably be yes and no. Some things,
20 clearly, the image receptors and probably the monitors
21 and printers, yes. But PACS, I'm not sure that that
22 is practical to have those specified, the work

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1 station, the display, yes, absolutely.

2 DR. SANDRIK: One concern is what that
3 really entails, and what that assures or doesn't
4 assure.

5 I think one thing it doesn't assure right
6 now is that you in fact come up with a compatible
7 system that will provide whatever quality you're
8 expecting to meet mammography standards.

9 Another concern for example is that the
10 current requirement on monitors involves the
11 specification of having 5 megapixels available for the
12 display.

13 It's essentially linked to current
14 technology, but it doesn't necessarily mean that any
15 imaging system should be limited by that.

16 As far as my own experience, it doesn't
17 result in having a 2-C plan provided with these
18 components, and although I've heard that FDA is
19 changing that, I had a call earlier this week already
20 from a physicist who got brand new displays with no QC
21 plan and is asking what is he supposed to do.

22 So while I think it is a good step, it

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1 doesn't necessarily assure meeting your quality
2 requirements.

3 I think what you put in guidance already
4 in the more recent editions including the past, the
5 facility's accreditation by the phantom and clinical
6 image review process is a step in the right direction.

7 Admittedly as you say in the guidance,
8 there isn't the facility for doing soft copy in maybe
9 not all of these, but the direction towards looking at
10 what is the clinical problem you're trying to solve,
11 and that the equipment addressing that problem is a
12 more important direction to go.

13 DR. TIMINS: I think what I'm getting from
14 the discussion is the operative word, all, is
15 problematic. So it seems that to require that all
16 digital components be approved or cleared for
17 mammographic use might be a bad idea.

18 DR. MONTICCIOLO: I agree, and I think what
19 Dr. Williams said is really important. It depends on
20 the component. I mean most of us as mammographers
21 have no control over the whole department's PAC system
22 which is used department wide, and we have no control

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1 over that at all.

2 DR. FINDER: Okay, so what I'm basically
3 hearing is that maybe the term, all, has to be
4 reconsidered. But am I also hearing that certain
5 components need to be.

6 And let's just take a show of hands that
7 there are certain components, depending on which ones
8 we're talking about, I would presume we're basically
9 talking at least about receptors which should be
10 pretty obvious, monitors and printers. What about
11 digitizers? If we are going to allow digitization to
12 be a part of mammography.

13 And again that goes back to some of these
14 definitions, whether they are included or not.

15 MS. MOUNT: I would say that to some degree
16 it should be, at least the resolution that the films
17 are digitized at. There is a huge variation out
18 there.

19 DR. BYNG: But doesn't it also depend on
20 what the intent of the digitization was?

21 DR. FINDER: That brings us back to that
22 definition for final interpretation. See, everything

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1 gets tied into these aspects.

2 Yes, you are exactly right. Right now if
3 whatever process we're talking about isn't being used
4 and doesn't impact on the patient, we really don't
5 have much to say about it, and we really don't care
6 that much.

7 It's when it becomes an issue where it
8 actually impacts the interpretation or patient care
9 that these things really become important.

10 So that's why the concept of the final
11 interpretation is important, and once you've
12 established that, you can tie certain other aspects,
13 and certain other regulations and requirements, to
14 those types of specific purposes.

15 So if I can just kind of get a sense from
16 the committee on a show of hands. Should for example
17 image receptors be required to be approved
18 specifically for mammographic use?

19 A show of hands yes?

20 (Show of hands)

21 DR. FINDER: No?

22 (Show of hands)

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1 DR. FINDER: That's a yes.

2 What about monitors? Yes?

3 (Show of hands)

4 DR. FINDER: No?

5 (Show of hands)

6 DR. FINDER: And that's a yes. And again
7 I'm talking about for final interpretation.

8 Yes.

9 DR. FERGUSON: To clarify when you say,
10 must be approved, are we talking about a general
11 elective, so and so monitor? Or are we talking about
12 a minimum number of pixels to be considered?

13 You'd hate to have every little thing have
14 to come for approval. You'd like to set a minimum
15 standard.

16 DR. FINDER: I think the concept here would
17 be, we're talking about FDA approval from the Office
18 of Device Evaluation, at least as one of the possible
19 approval mechanisms.

20 The other is possibly to set some type of
21 standard that these machines or components would have
22 to meet, and as has been stated, it has to be done

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1 very carefully because there are certain kind of
2 agreed upon standards right now, but I'm not sure that
3 they have been proven to be as clinically relevant, for
4 example, the 5 megapixel monitor is kind of the
5 standard for reading mammographic studies, but could a
6 four megapixel monitor be just as good?

7 And we certainly do want to be careful if
8 we do go ahead with some type of definition here, or
9 some type of requirement that we don't preclude the
10 possibility of allowing different pieces of equipment
11 that can be shown to deal with this, to solve the
12 problem and be cheaper and more beneficial and reduce
13 the burden and cost on facilities.

14 I will point out that we do have the
15 alternative standard ability to issue an alternative
16 standard, or ramp one. That's one of the ones we
17 discussed yesterday.

18 And these requirements are under 900.12,
19 so it would be possible for somebody theoretically to
20 come in, provide evidence that their monitor, printer,
21 et cetera, would be comparable and produce the same
22 type of quality, and be granted an alternative, even

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1 though it wouldn't meet let's say what is written in
2 the regulation as a standard.

3 Yes?

4 DR. CHAKRABARTI: I think one of the
5 problems here is that in the early days of FFDM the
6 displays were a part of the package. And so they were
7 all part of FDA, the process. And now the trend is to
8 a certain degree away from that, and having third
9 party displays to view the mammograms is becoming more
10 and more common.

11 So with that in mind I think it's probably
12 important that we make sure that the displays are
13 under some sort of scrutiny.

14 DR. FINDER: Under the current regulations
15 right now, there is no standard that's set for what
16 type of monitors or printers that can be used. The
17 only requirement that we have from a MQSA stand point
18 is that they must satisfy the quality control standard
19 set by the manufacturer, the image receptor
20 manufacturer.

21 So theoretically somebody could go and
22 view images on a laptop computer and read off of that

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1 at the present time. This is a real problem that
2 we've got that we need to address in the regulations,
3 because other than the quality control test, there are
4 no other standards that are set for these components
5 of full-field digital equipment.

6 So I would suggest that we take a show of
7 hands to see if this is important enough to try to
8 move ahead, even though we realize that we don't have
9 all the answers, the final answers, as to what the
10 minimum requirements truly are, but at least to move
11 ahead at that point.

12 And I do believe we have somebody from the
13 Office of Device Evaluation. Do you want to speak
14 about something?

15 DR. CHAKRABARTI: I think Mark is right.
16 Kish Chakrabarti, I'm a physicist with the Office of
17 Device Evaluation. Until and unless the full digital
18 mammography system is declassified, we require that
19 any component of that FFDM system, even though we have
20 branched it out to monitor or printer for 5 or 10K, we
21 still require that the specifications and performance
22 should be the same as what came with the original

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1 manufacturer's monitor or printer.

2 And we mention only monitor and printer,
3 nothing else, not the work stations, not the image
4 processing. The monitor, the specifications, and we
5 have crafted some specifications and performance
6 criteria by which myself and Office of Science and
7 Electronics - the laboratories here - we review the
8 monitors, and the monitors that are reviewed are all
9 minimum pixels, but not only that there is some other
10 specification and results that are necessary.

11 And if somebody wants to prove that there
12 is a three megapixel, we might need clinical data.
13 It's not decided. Anything less than five megapixel
14 might at this point need technical data.

15 DR. FINDER: So if we could move ahead and
16 just see a show of hands, should we include the
17 requirements for the monitors?

18 Yes?

19 (Show of hands)

20 DR. FINDER: No?

21 (Show of hands)

22 DR. FINDER: That's a yes.

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1 What about the printeres?

2 Yes?

3 DR. BYNG: Sorry, Dr. Finder, just an
4 additional clarifiaction, this is to make it specific
5 and different from what's already specified by the
6 manufacturer associated with the image receptors?

7 DR. FINDER: The difference between what
8 ODE approves, the Office of Device Evaluation,
9 approves, and what can be used by an individual
10 facility are different.

11 So a manufacturer has to go through the
12 ODE process so that they can claim that their unit or
13 component has been approved for mammographic use. But
14 the way that our MQSA regulations are written, there
15 is no requirement right now that only those components
16 that have been approved for that use actually be used.

17 And as I say, right now somebody could if
18 they wanted to use any kind of monitor they want, as
19 long as it passed the QC test. It wouldn't
20 necessarily have to be five megapixel; it wouldn't
21 have to be three megapixel; wouldn't hvae to be any
22 standard in terms of that.

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