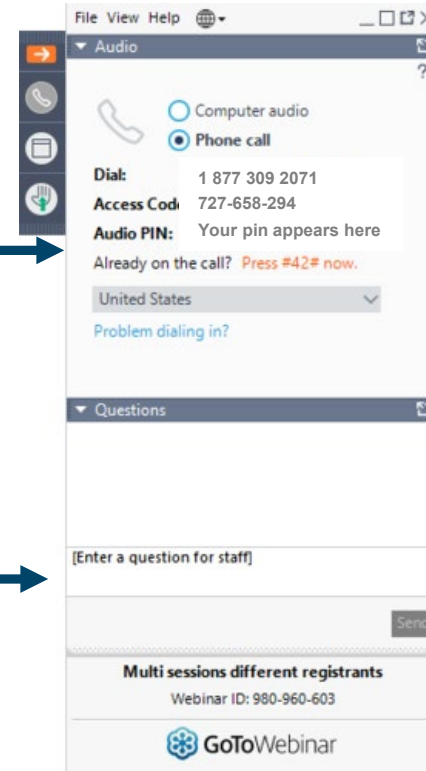


Welcome to the meeting. We will begin shortly.

If dialing in by phone,
enter #, your Audio PIN,
then #

Type your question into
the text field under
“Questions”



The screenshot shows the GoToWebinar interface. On the left is a vertical toolbar with icons for chat, audio, and questions. The main window has two sections: 'Audio' and 'Questions'. The 'Audio' section includes options for 'Computer audio' and 'Phone call' (selected), a 'Dial' number (1 877 309 2071), an 'Access Code' (727-658-294), and an 'Audio PIN' field. Below this is a dropdown for 'United States' and a link for 'Problem dialing in?'. The 'Questions' section has a text input field with the placeholder '[Enter a question for staff]' and a 'Send' button. At the bottom, it displays 'Multi sessions different registrants', 'Webinar ID: 980-960-603', and the 'GoToWebinar' logo.



NMD Training Webinar Series

Boot Camp Part 1: Basics of NMD Data Entry

NRDR
NMD[®]
NATIONAL MAMMOGRAPHY
DATABASE
AMERICAN COLLEGE OF RADIOLOGY

Learning Objectives

- Recognize how registry data can be used for facility benchmarking and quality improvement.
- Explain the connection between entering accurate, complete, and timely data for maximizing the value of registry participation.
- Upload complete data into the NMD and resolve validation and rejection errors to maximize the value of registry participation.

Moderator



Zach Smith

Sr. Quality Programs Assistant,
ACR

Speakers

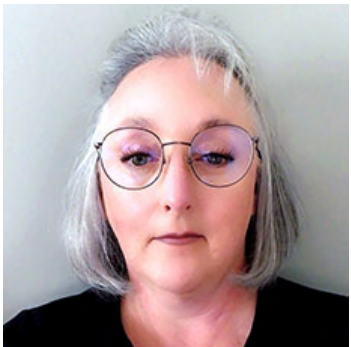


Robert D. Rosenberg, MD, FACR, FSBI

Chair of NMD Committee

Staff Radiologist, Radiology Associates of
Albuquerque

Professor Emeritus, University of NM



Gretchen Merriss

Data Analyst, Clinical Radiologists

Speakers



Lu Meyer

Sr. Quality Program Specialist, ACR



Ryan Keefer

Associate Quality Program Specialist,
ACR



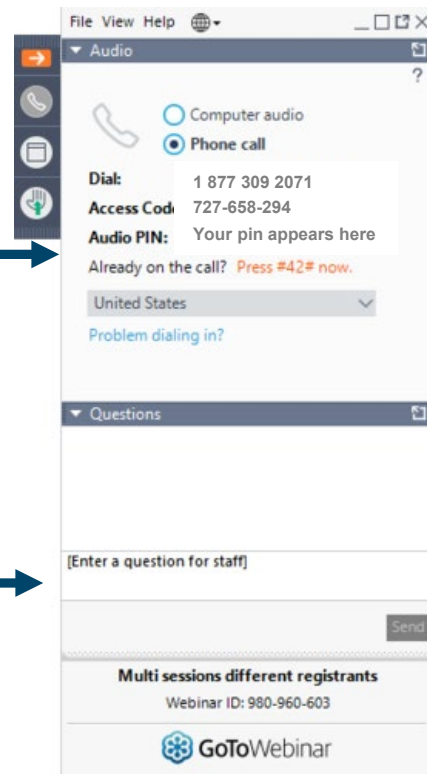
Disclosures

- None

Ask Your Questions in the Chat

If dialing in by phone,
enter #, your Audio PIN,
then #


Type your question into
the text field under
“Questions”



The screenshot shows the GoToWebinar interface. On the left is a vertical sidebar with icons for chat, audio, and a hand. The main window has two sections: 'Audio' and 'Questions'. The 'Audio' section includes options for 'Computer audio' and 'Phone call' (selected), a 'Dial' number (1 877 309 2071), an 'Access Code' (727-658-294), and an 'Audio PIN' field. Below this is a dropdown for 'United States' and a link for 'Problem dialing in?'. The 'Questions' section has a text input field with the placeholder '[Enter a question for staff]' and a 'Send' button. At the bottom, it says 'Multi sessions different registrants', 'Webinar ID: 980-960-603', and the 'GoToWebinar' logo.

NRDR Knowledge Base

nrdrsupport.acr.org

 **NRDR - National Radiology Data Registry Support**

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SEARCH

[+ New support ticket](#)
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Knowledge base

NRDR - Overview






Benefits of Participation (3)

-  [Introducing the NRDR](#)
-  [Benefits For Clinicians](#)
-  [About the NRDR Knowledge Base](#)


Support for CMS Regulations (3)

-  [Key Dates and Milestones](#)
-  [Merit-based Incentive Payment System \(MIPS\)](#)
-  [MIPS Educational Material](#)

Features of Individual NRDR Registries (9)

-  [CDS Registry \(CDSR\)](#)
-  [CT Colonography Registry \(CTC\)](#)
-  [Dose Index Registry \(DIR\)](#)
-  [General Radiology Improvement Database \(GRID\)](#)
-  [Interventional Radiology Registry \(IR\)](#)
- [» See all 9 articles](#)

Announcements (11)

-  [NRDR 13.8 Release Notes](#)

e of Radiology

NRDR Knowledge Base - Poll



How familiar are you with the NRDR Knowledge Base?

- A. I use it often
- B. I use it occasionally
- C. I use it rarely
- D. I know about it but have never used it
- E. I have not heard about it

NRDR Knowledge Base - Demo

Core Documents [acr.org](#)

NRDR

 [Features of the National Mammography Database](#) 

 [NMD Measures](#) 

 Data

 NMD

 [NMD Registry](#)

[ACR NRDR Homepage](#)

[About the NMD](#)

[NMD Data Dictionary](#)

[NMD Sample Facility Report](#)

[NMD Sample Physician Report](#)

[NMD Sample QCDR Preview Report](#)

[NMD Measures](#)

[NMD ABR PQI Project Description](#)



NRDR - National Radiology Data Registry Support

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Knowledge base

NRDR - Overview

[Benefits of Participation \(3\)](#)

[Features of Individual NRDR Registries \(9\)](#)

[American College of Radiology](#)

Purpose of the Registry: How are the data used?

- Monitoring facility quality and identifying opportunities for improvement
 - Identifying consistency among radiologists
- Demonstrating quality to executive leadership and payers
- Conducting research

Data Elements: Why is it important to report the data?

1. Understand how facility performs
2. See how similar your facility is to other facilities
3. Access data for research

*Abnormal Interpretations and Cancers for Screening Mammography
January 2019 - December 2019: Comparison to all NMD facilities*

Measure	Facility 100853		NMD (N=205)	
	Rate	(Num-Den)	Rate	(Num-Den)
All exams		9,482		3,102,964
Recall rate	15.32%	(1,453/9,482)	10.07%	(312,616/3,102,964)
PPV1	5.51%	(43/780)	4.04%	(12,638/312,616)
PPV2	22.36%	(36/161)	20.76%	(10,679/51,448)
PPV3	28.57%	(36/126)	27.79%	(10,679/38,423)
Biopsy recommended	1.70%	(161/9,482)	1.66%	(51,448/3,102,964)
Biopsy performed	3.55%	(337/9,482)	1.49%	(46,200/3,102,964)
Biopsy result: Negative	69.35%	(215/310)	69.56%	(28,879/41,517)
Biopsy result: Positive	30.65%	(95/310)	30.44%	(12,638/41,517)
CDR per 1000	10.02	(95/9,482)	4.07	(12,638/3,102,964)
ICDR per 1000	8.12	(77/9,482)	3.10	(9,633/3,102,964)
Ductal carcinoma in-situ	18.95%	(18/95)	23.78%	(3,005/12,638)
Invasive cancer	81.05%	(77/95)	76.22%	(9,633/12,638)
Minimal cancer	58.97%	(23/39)	36.93%	(4,667/12,638)
Nodal status: Negative	14.29%	(11/77)	21.09%	(2,032/9,633)
Nodal status: Positive	5.19%	(4/77)	2.96%	(285/9,633)
Tumor size: 1-5mm	6.67%	(2/30)	16.17%	(566/3,501)
Tumor size: 6-10mm	16.67%	(5/30)	32.50%	(1,138/3,501)
Tumor size: 11-15mm	33.33%	(10/30)	23.91%	(837/3,501)
Tumor size: 16-20mm	23.33%	(7/30)	11.17%	(391/3,501)
Tumor size: >20mm	20.00%	(6/30)	16.25%	(569/3,501)
Tumor stage: 0	40.00%	(6/15)	16.62%	(261/1,570)
Tumor stage: I	33.33%	(5/15)	66.50%	(1,044/1,570)
Tumor stage: II	13.33%	(2/15)	14.90%	(234/1,570)
Tumor stage: III	13.33%	(2/15)	1.85%	(29/1,570)

Sample NMD Facility Report

Critical Outcomes? PPV's and CDR

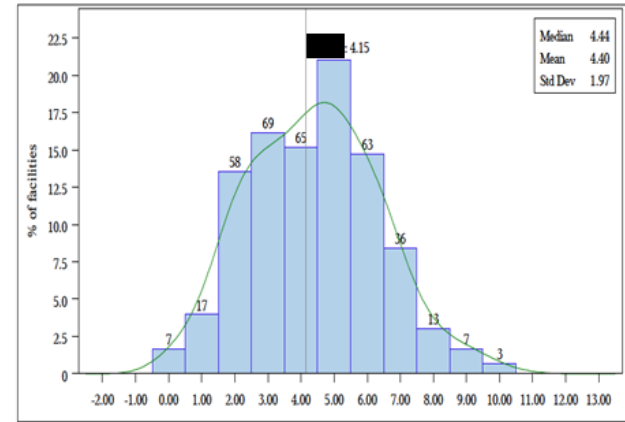
- Necessary data elements
 - Indication for exam, overall assessment (patient level), classification of lesion, cancer staging
- Cancer Detection Rate (CDR)
 - How often did you find cancers?
- Positive Predictive Values (PPV's)
 - How often are positive studies really cancer?

Use Case: Quality Improvement

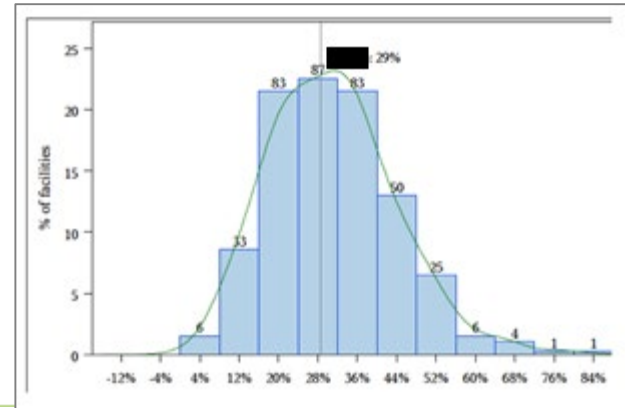
- Example 1 – Monitoring individual physician quality
 - Data elements: BIRADS for each study
- Example 2 – Tracking year to year performance
 - Data element assessment: Recall rate – compare current to 1 year ago by radiologist and facility
- Example 3 – Improving cancer detection and staging follow up
 - Data elements: Cancer size and node status after surgery, follow-up biopsy results – % of cancers with staging

Use Case: Demonstrating Quality to Payers and Healthcare Leaders

- Example 1
 - Cancer Detection Rate, recall rate
- Example 2
 - PPV's recall (PPV1), Bx recommended (PPV2), Bx done (PPV3)



CDR



PPV3

Use Case: Research Studies

- Population health disparities
 - Example: Screening Mammography in African American Women: Should screening frequency and onset be different?
 - Data elements: race, ethnicity, age, weight, patient zip code
- Appropriate age for screening
 - Example: [Risk-Based Screening Mammography for Women Aged <40: Outcomes From the National Mammography Database](#)
 - Data elements: age, availability of prior mammograms, family history of breast cancer, personal history of breast cancer, breast density
- Appropriate use of BIRADS
 - Example: [Cancer Yield and Patterns of Follow-up for BI-RADS Category 3 after Screening Mammography Recall in the National Mammography Database](#)
- Tomosynthesis outcomes (future work)

NRDR Data Access and Publications

- <https://www.acr.org/Practice-Management-Quality-Informatics/Registries/Data-Access-and-Publications>

Registry	Approved NRDR Data Requests
NMD	Frequency, outcome and compliance of BI-RADS 3 probably benign lesions
NMD	Variability In The Use Of BI-RADS Assessment Categories: Clinical Practice versus ACR BI-RADS Atlas 5th Edition
NMD	Factors Associated with Rates of False Negative Results from Mammographic Screening in the NMD
NMD	Screening African American women
NMD	Linkage: Radiologists' characteristics and mammography facility characteristics associated with interpretive performance of screening mammography in NMD
NMD	Potential Changes in Distribution of BI-RADS Breast Density Categories Following Breast Density Legislation and BI-RADS Atlas Update

Life Cycle of NMD Exam

①

MRN: ABC
Exam date: 1/1/2020
Indication: Screening
Assessment: 0-Addtl imaging



Other ID: ABC
Exam date: 1/1/2020
Indication: Screening
Assessment: 0-Addtl imaging

②

MRN: ABC
Exam date: 1/15/2020
Indication: Diagnostic
Assessment: 4-Suspicious



Other ID: ABC
Exam date: 1/1/2020
Indication: Screening
Assessment: 0-Addtl imaging

Exam date: 1/15/2020
Indication: Diagnostic
Assesment: 4-Suspicious

③

MRN: ABC
Exam date: 1/15/2020
Indication: Diagnostic
Assessment: 4-Suspicious
Classn of Lesion: Malignant

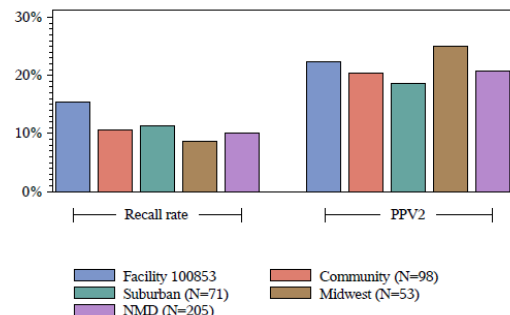


Other ID: ABC
Exam date: 1/1/2020
Indication: Screening
Assessment: 0-Addtl imaging

Exam date: 1/15/2020
Indication: Diagnostic
Assessment: 4-Suspicious
Classn of Lesion: Malignant

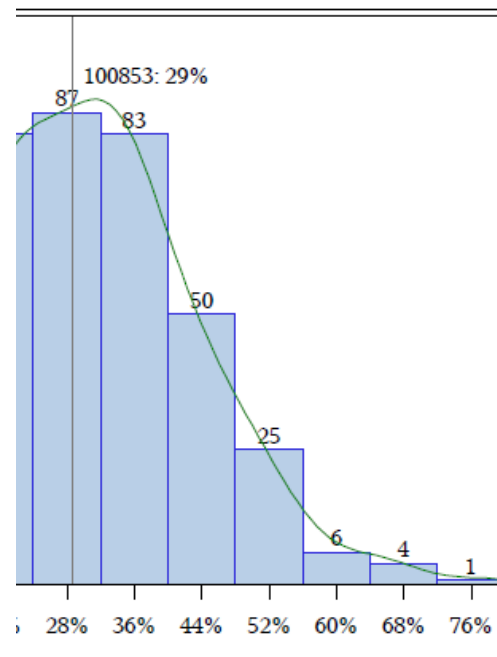
Life Cycle of NMD Exam

Recall Rate and PPV2

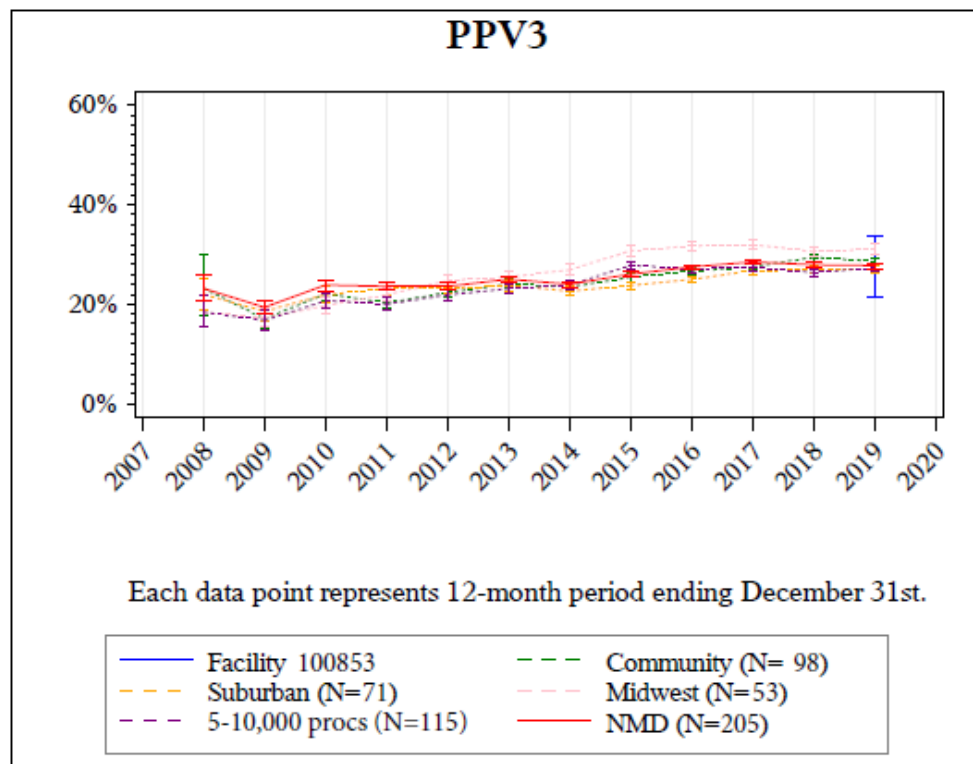


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Biopsy result: Negative	69.35%	(215/310)

Distribution of PPV3
January 2019 - December 2019



Life Cycle of NMD Exam



Upgrading to Version 3.0 – Diagnostic Imaging

New Variables Collected in 3.0	
NMD file version number	Modality
NRDR facility ID	Use of tomosynthesis
Laterality of audit data	Additional imaging
Combination examination	Tissue composition
Standard screening mammo and US imaging	Amount of fibroglandular tissue
Physician identifier 2 and 3	Background parenchymal enhancement
Physician-level assessment - left and right breast and patient-level	Histology grade
First examination ever	Primary tumor
Time since previous examination	Regional lymph nodes
Family history of breast cancer, other than first-degree relative	Distant metastases
History of ovarian cancer	Nodes removed
Previous biopsy - proven hyperplasia with cellular atypia	Nodes positive
Previous lobular carcinoma in situ	

Certified Software Partners for 3.0

Certified Software Partners Approved for NMD 3.0/3.1/3.2



Certified Software Partners Approved Conditionally for NMD 3.0/3.1/3.2



2.0 to 3.0 Transition Process

- Talk with your team about benefits of transitioning
- Contact your vendor to find out what is required
- Set up with vendor may be required before you can start sending 3.0 data to NMD

Upgrading to Version 3.0 – Poll 1

How likely are you to move to version 3.0 in the next 12 months?

- A. Likely
- B. I'm not sure
- C. Unlikely
- D. I already use Version 3.0/3.1/3.2

Upgrading to Version 3.0 – Poll 2

What is your biggest barrier to moving to version 3.0? (Select all that apply.)

- A. Expense
- B. Time/data input burden
- C. Lack of expected return on investment
- D. Lack of institution support
- E. Systems/software issues

Preventing Common Data Errors

- Missing NPIs
- Patient ID conflicts
 - Patient has multiple IDs
 - Different patients have the same ID
- Dates not in valid date format (mm/dd/yyyy)
- Periods/commas in name fields

Value of “Good” Data

- Garbage in, garbage out
- Incomplete or erroneous data means:
 - Reports unable to provide facility measures
 - Reports provide inaccurate data
- Examples - pathology
 - What was the cancer size on the surgical pathology report?
 - What was the axillary lymph node status at surgery?

Engaging with NMD

- NRDR Knowledge Base
 - <https://nrdrsupport.acr.org/support/home>
 - FAQ of questions from today will be sent after webinar
- Provide NMD feedback through our survey!
 - <https://app.smartsheet.com/b/form/7613389ae5d947b2a2ae0c9877980e7f>
- Join us for **Boot Camp Part 2: NMD Data Submission and Reports** on August 26 @ 2pm EDT
 - Register:
<https://attendee.gotowebinar.com/register/4835794384525407248>

CE Credit Claiming

CE Credit claiming instructions will be sent to you via email from alacount@acr.org following the activity, by Friday, September 4, 2020. Please click on the link and follow the instructions in the email to claim your credit, complete the activity evaluation, and receive your certificate. All evaluations and credit claiming requests must be completed no later than **11:59 EDT, Wednesday, November 26, 2020.**

For questions regarding the credit claiming of this activity, please contact Alexis LaCount: alacount@acr.org.