

Automated BI-RADS® Ultrasound Worksheet for Sonographers

BI-RADS® Ultrasound Worksheets

Date & Location of Previous Imaging (if applicable)
Scope of Examination
Background Echotexture
Mass(es)
Vascularity
Calcifications
Special Cases

Auto Diagram

Auto Findings

Print Preview

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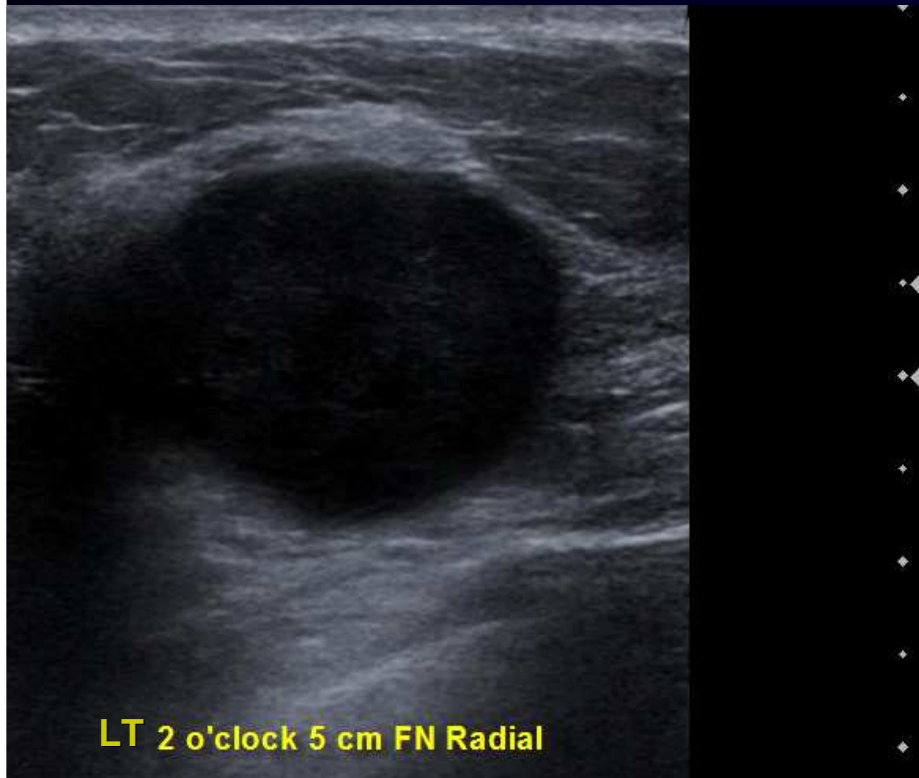
Program Director, Ultrasound Seminars & Workshops, www.sonographers.ca

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Automated BI-RADS US Worksheet

How are we communicating the breast US findings?



HISTORY

60 year-old female with palpable lump in the left breast. After performing a diagnostic ultrasound, the reporting radiologist suspected a fibroadenoma or a complicated cyst and therefore she recommended a follow up ultrasound in 4-6 months.

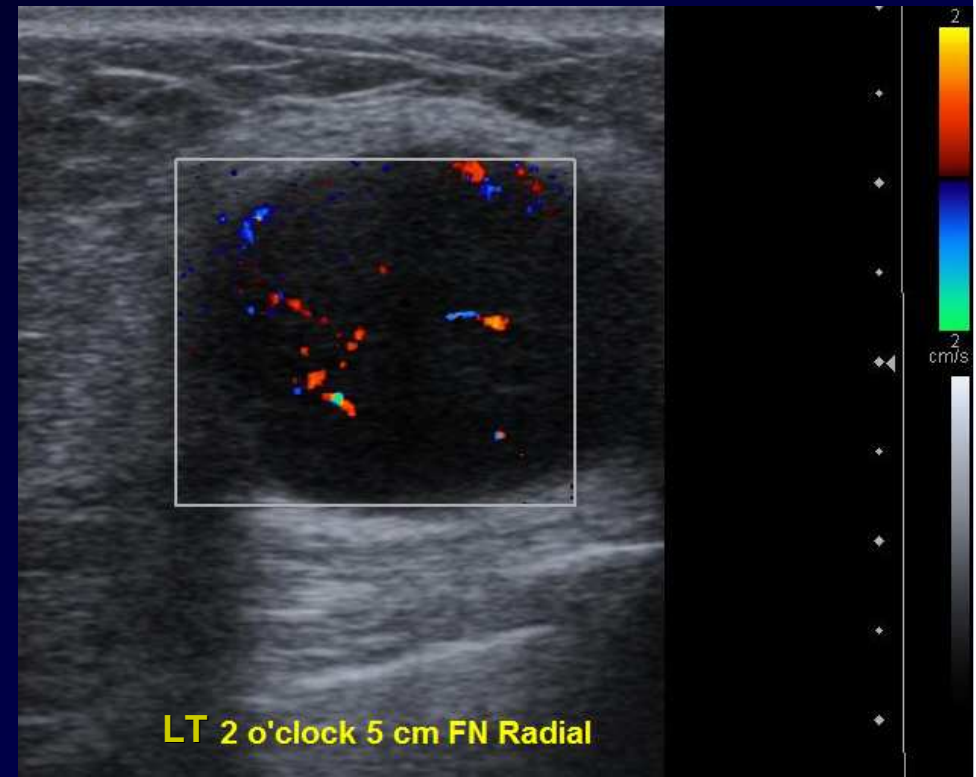
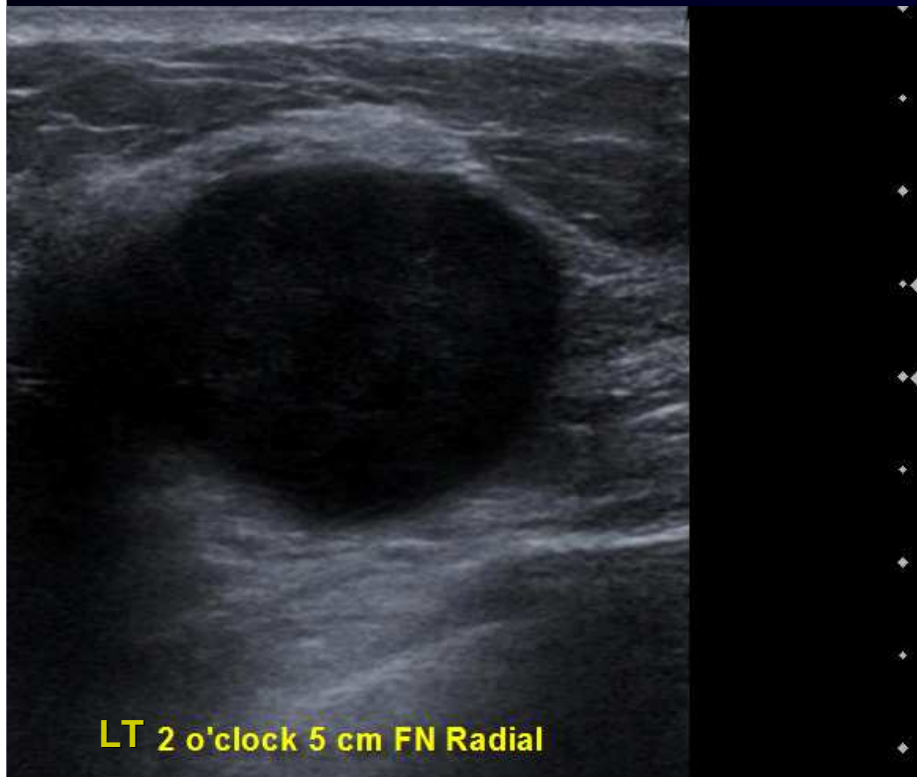
4 weeks after the first ultrasound, patient felt that the mass was getting larger and she tried to book her follow up ultrasound right away but the original clinic refused to do so as she was recommended for 4-6 months later.

The patient referred to another private clinic and a second ultrasound was performed. On the second ultrasound exam, the sonographer also performed color Doppler.



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How are we communicating the breast US findings?



A core biopsy was arranged right away and the biopsy result confirmed an invasive ductal carcinoma.



Automated BI-RADS US Worksheet

How to improve the communication for breast US reports:

- A breast scanner must be a registered sonographer
- Certified Breast Ultrasonographer (CBUS) recommended
- Automated BI-RADS® Worksheet to ensure reports with:
 - accuracy
 - clarity
 - consistency
 - Readability
 - efficiency



Automated BI-RADS US Worksheet

Katiba™ CBUS Worksheet

New Patient

Demographics

Patient:

Sonographer:

Date, Time: 09/03/2010, 1:56:15 PM

Examination Side

Right Left Bilateral

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 Digital Orientation Resolutions Inc.
 phone: (604) 897-7545
 email: support@digitalorientation.com
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 web: www.sonographers.ca

Analysis of the Significant Right Breast Lesion(s) or Finding(s)

Total number of masses: Describing mass # 1: Location of mass # 1: Distance FN (cm):

Shape (select one): Oval Round Irregular Orientation (select one): Parallel Not parallel

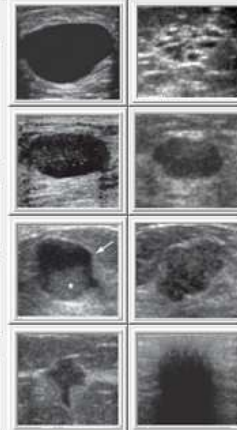
Lesion Boundary (select one): Abrupt interface Echogenic halo Size in mm: Length: Width: Depth:

Margin (select one): Circumscribed Not circumscribed

Posterior Acoustic Features (select one): No posterior acoustic features Enhancement Shadowing Combined pattern

Echo Pattern (select one): Anechoic Hyperechoic Isoechoic Complex Hypoechoic

Surrounding Tissue - Identifiable effect (select all that apply): Duct changes Skin thickening Cooper's ligament changes Architectural distortion Edema Skin retraction/irregularity

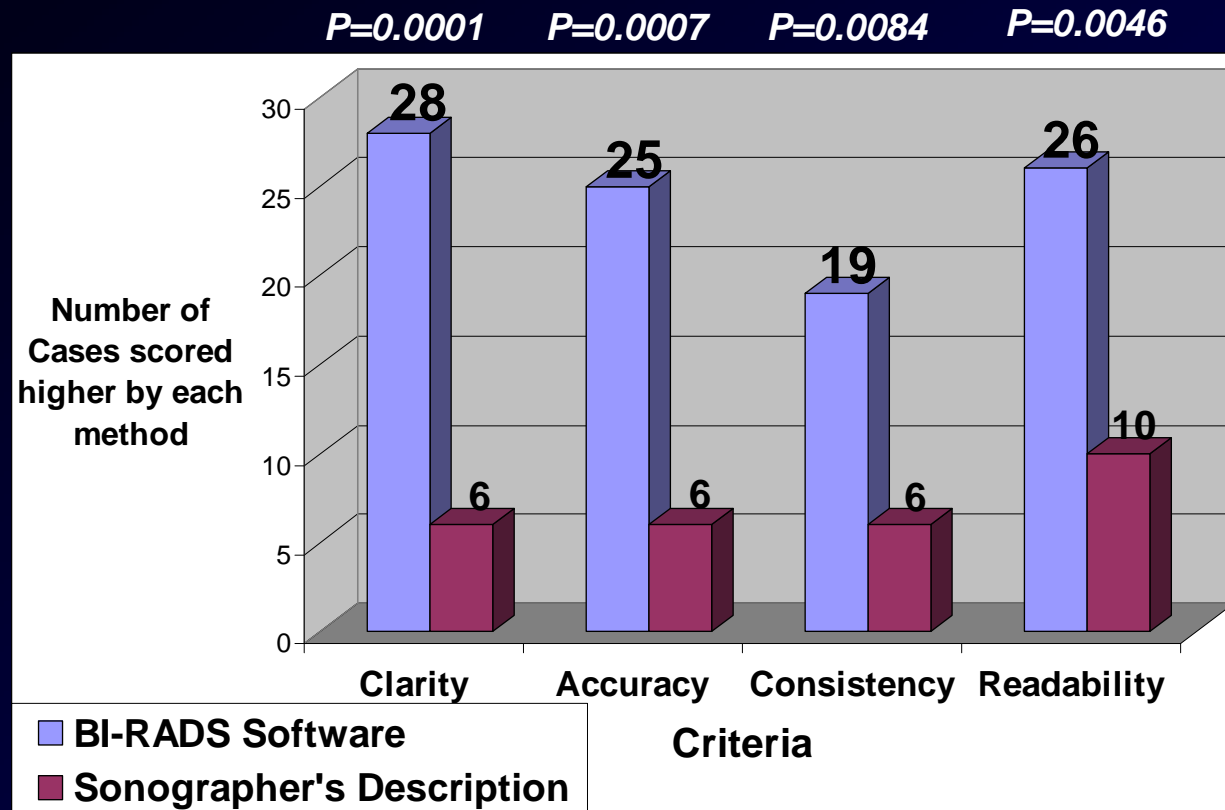


There is a circumscribed 12 mm (L) x 8 mm (W) x 9 mm (D) oval anechoic mass at the 11 o'clock position of the right breast, 3 cm from the nipple. Its long axis is parallel to the skin surface. It is associated with posterior enhancement. There is an abrupt interface in the lesion boundary. Color Doppler demonstrates no vascularity in the mass.

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Automated BI-RADS US Worksheet



Clarity: ability to clearly visualize the described ultrasound findings

Accuracy: correctly described ultrasound findings

Consistency: uniformity of described ultrasound findings

Readability: understanding of hand-writing, abbreviations, and drawings

Whittaker TM, Tahmasebpour HR, Gardiner I et al: The Accuracy, Clarity, Consistency, and Efficiency of Structured Reporting of Breast Ultrasonography Using Computer Software Compared with Free-Text Reporting. RSNA 2009, Chicago, USA



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STAY CURRENT

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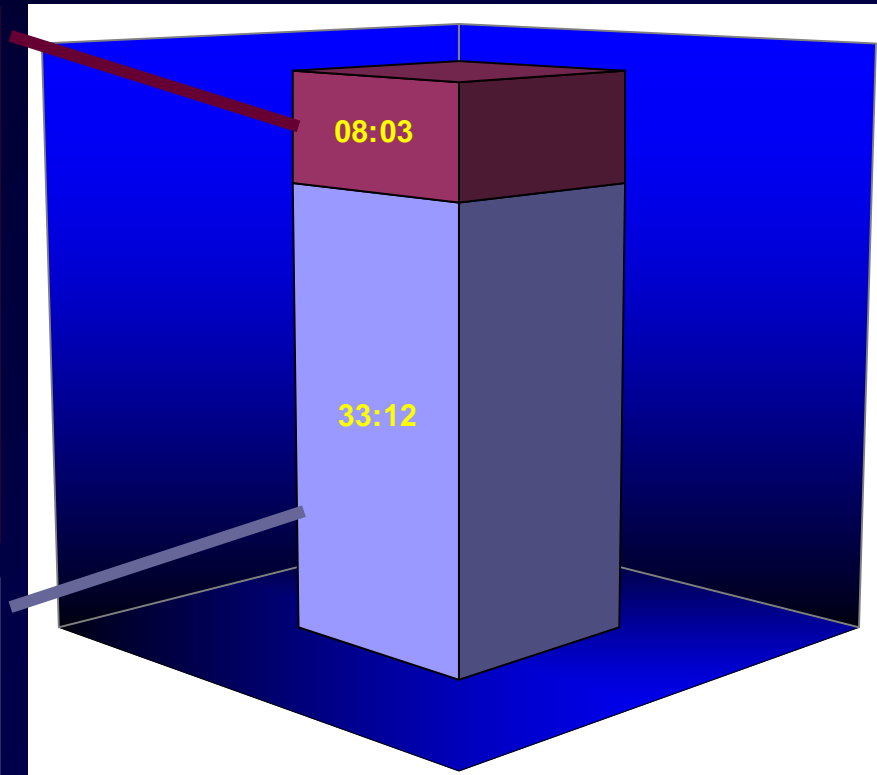
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Turn Around Time for 199 Published Breast Ultrasound Reports

Average time (8 minutes and 3 seconds) spent to use the Automated BI-RADS Worksheet to:

1. Check cases with radiologist
2. Rescan the patient by radiologist (if applicable)
3. Publish the final report by radiologist
4. Print out the report
5. Deliver the report to a clerk to fax it

Average time (33 minutes and 12 seconds) spent by sonographer to perform ultrasound exams



Whittaker TM, Tahmasebpour HR, Gardiner I et al: The Accuracy, Clarity, Consistency, and Efficiency of Structured Reporting of Breast Ultrasonography Using Computer Software Compared with Free-Text Reporting. RSNA 2009, Chicago, USA



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The goal is to ensure that patients with cancer receive:

“the right treatment, the first time, as soon as possible to have a chance for cure”

