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✓ What are the categories and management rules for Breast imaging reporting and data system?

Introduction

1. BIRADS (Breast Imaging Reporting and Data System) is a *risk assessment* and *quality assurance* tool developed by American College of Radiology that provides a widely accepted lexicon and reporting schema for *imaging of the breast*. It applies to *mammography*, *Ultrasound*, and *MRI*.

BIRADS Categories and Management Rules

2. Doctors use a standard system to describe mammogram findings and results. This system sorts the results into *categories numbered 1 through 5*. These same BI-RADS categories can also be used to describe the results of a *breast Ultrasound* or *breast MRI* exam. BIRADS categories along with description and management rules are given in table shown below:

Category		Description	Management rules
1	Sonographically normal tissues	That cause mammographic or clinical abnormalities	
2	Bengin entities	 Intramammary lymph nodes Estatic ducts All simple and many complicated cysts, and definitely bengin solid nodules, such as Lipoma hamartoma 	Routine screeningFCU
3	"probably bengin" lesions, (2% or less risk of malignancy)	 Some complicated and complex cysts Small intraductal papillomas and a subset of fibroadenomas 	 Surgical biopsy Image guided needle biopsy Short Interval sonographic f/up
4	Large ACR BIRADS 4 category that is termed "suspicious" have been divided into three subcategories.	 4a: "mildly suspicious"[carries>2 to 10% risk of malignancy] 4b: "moderately suspicios"[carries>10 to 50% rik] 4c: risk of malignancy is >50%to <95% 	• Biopsy
5	"malignant"	• >= 95% risk of malignancy	

Conclusion

3. With recent developments in ultrasound equipment, **Sonography** is now a **well-established tool** in breast imaging. The use of **ultrasound** for assessment of BI-RADS categories allows **malignant solid masses** to be distinguished from benign ones as **accurately** as does mammography.

Description of the Sonographic appearance exhibited by different breast tumors

