

O-RADS MRI Calculator

Governing Concepts and User's Guide



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Governing Concepts

- O-RADS MRI assumes an average risk patient with no acute symptoms.
- Categorize patient as pre- or postmenopausal (defined as > 1 year amenorrhea).
* If menopausal status not known, assume premenopausal when < 50 years of age.
- In case of multiple or bilateral lesions, each lesion should be separately characterized, and management will be driven by lesion with highest score.
- In addition to the O-RADS MRI score, the final radiological diagnosis can be reported in characteristic lesion (e.g. granulosa cell tumor, papillary serous tumors, peritoneal pseudocyst, etc.).

O-RADS MRI Calculator Definitions

Adnexal: Involving the ovary and/or fallopian tubes.

Lesion: A finding that is not a normal physiologic structure (eg. follicle).

Cystic lesion: Fluid filled structure; may be unilocular or multilocular; may contain solid tissue.

Types of fluid: Simple and non-simple (hemorrhagic, endometriotic, proteinaceous, or lipid).

Solid Tissue: Non-fluid component of the lesion, which enhances on post-contrast images and conforms to one of the following morphologies: papillary projections, mural nodules, irregular septations/walls and larger solid portion. Enhancing smooth septations, non-enhancing debris and fat are NOT solid tissue.

Navigating the Calculator

- The calculator is based on 4 quick questions and the reader's response to each one will lead to the next step.
- Always begin with Question 1 and work through until an O-RADS MRI score is displayed.
- When the calculator has enough information for a particular lesion, the O-RADS MRI risk score will display and the remaining questions do not need to be answered.
- Press the reset button (top middle) after each lesion to reset the calculator.

The screenshot shows the O-RADS MRI Calculator for Adnexal Lesions. At the top, there is a logo and the title. Below the title are three buttons: 'O-RADS MRI Calculator Quick Question Guide', 'RESET BUTTON For Quick Questions', and 'Technical Requirements for the MRI Examination'. The main section is titled 'Quick Questions*' and contains four questions with radio button options for 'Yes' and 'No'. Question 1 asks about peritoneal, mesenteric or omental nodularity. Question 2 asks about adnexal findings like follicles or corpus luteum. Question 3 asks about fat associated with the lesion. Question 4 asks about enhancing solid tissue. A note at the bottom states: '*Solid Tissue: Enhancing papillary projection, nodule, irregular septation/wall, solid lesion. Note: Thin smooth septations are NOT solid tissue.'

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