



**O-RADS™ MR Lexicon Categories, Terms and Definitions**  
 Revised: October 2023

Category	Term		Comments
<b>1</b>	<b>Major categories</b>		
<b>1a</b>	<b>Physiological observations (consistent with normal physiology)</b>		
	<b>Follicle</b>	Simple cyst $\leq 3$ cm in premenopausal age group. A follicle is hyperintense on T2WI, hypointense on T1WI and does not enhance on post-contrast T1WI.	Pre-menopausal women only
	<b>Corpus luteum</b>	Cyst $\leq 3$ cm, with an enhancing crenulated wall on subtracted post-contrast T1WI (arrowheads), +/- blood clot or hemorrhagic contents.	Pre-menopausal women only
<b>1b</b>	<b>Lesions (not physiologic)</b>		
	<b>Cystic lesion</b>	<b>Unilocular:</b> Single locule, with or without solid tissue. <b>Multilocular cyst:</b> More than one locule; with or without solid tissue.	
	<b>Lesion with solid component</b>	<b>Solid tissue:</b> Conforms to one the following morphologies and enhances: papillary formations, mural nodules, irregular cyst wall/septations and solid portion.	
		<b>Other solid components not considered solid tissue:</b> Smooth walls/septations, clot/debris, fat	Not considered solid tissue
	<b>Solid lesion</b>	Consists of at least 80% solid tissue with <20% of lesion volume being cystic.	
<b>2</b>	<b>Size</b>		
	<b>Maximum diameter</b>	Largest diameter of the lesion and/or solid component in any imaging plane.	
<b>3</b>	<b>Shape or contour of solid lesion or solid tissue</b>		
<b>3a</b>	<b>Smooth</b>	Regular or even margin of a solid lesion or solid tissue.	
<b>3b</b>	<b>Irregular</b>	Uneven margin of a solid lesion or solid tissue.	
<b>4</b>	<b>Signal Intensity</b>		
<b>4a</b>	<b>Homogeneous</b>	Uniform appearance of the signal observed in an adnexal finding.	
	<b>Heterogeneous</b>	Non-uniform or variable appearance of the signal observed in an adnexal finding.	

<b>4b</b>	<b>T2 hypointense</b>	Adnexal observation with signal intensity lower or equal to iliopsoas muscle.	
	<b>T2 intermediate</b>	Adnexal observation with signal intensity higher than iliopsoas and lower than CSF.	
	<b>T2 hyperintense</b>	Adnexal observation with signal intensity equal or higher to CSF.	
<b>4c</b>	<b>T1 hypointense</b>	Adnexal observation with signal intensity lower than or equal to the iliopsoas muscle.	
	<b>T1 intermediate</b>	Adnexal observation with signal intensity higher than iliopsoas and lower than fat.	
	<b>T1 hyperintense</b>	Adnexal observation with signal intensity equal or higher to fat.	
<b>4d</b>	<b>DWI High B-value Low signal</b>	Adnexal lesion with signal similar to urine or cerebral spinal fluid.	
	<b>DWI High B-value High signal</b>	Adnexal lesion with signal clearly higher than urine or CSF.	
<b>5</b>	<b>Lesion Components</b>		
<b>5a</b>	<b>Cystic Fluid Descriptors</b>		
	<b>Simple fluid</b>	Fluid content that follows CSF or urine on all sequences: hyperintense on T2WI and hypointense on T1WI.	
	<b>Non-simple fluid</b>	<b>Hemorrhagic fluid</b> content can be variable depending on age.	Late subacute hemorrhage is hyperintense on T2WI and hyperintense on T1WI.
		<b>Endometriotic fluid</b> content is hypointense on T2WI and hyperintense on T1WI.	
		<b>Proteinaceous or mucinous fluid</b> content is variable in signal on T2WI and variably hypointense on T1WI.	
		<b>Fat or lipid containing fluid</b> is hyperintense on T2WI and hyperintense on T1WI, and loses signal on fat saturated images.	If there is microscopic fat, there will be signal drop out on out-of-phase images and there may not be any signal loss on fat saturated images.
	<b>Additional specific descriptors for non-simple fluid</b>	<b>Fluid-fluid level:</b> Appearance where the non-dependent fluid component has a different signal intensity from the dependent fluid component with horizontal delineation.	
		<b>Shading:</b> Cyst fluid that is hypointense on T2WI; the extent of hypointense T2 signal intensity may be homogeneous, variable within the cyst or graduated and dependent.	
<b>5b</b>	<b>Solid Component Descriptors</b>		

	<b>Solid tissue: Enhances and conforms to one of the listed morphologies</b>		
		<b>Papillary projection:</b> Enhancing solid component arising from the inner/outer wall or septation of an adnexal lesion, with a branching architecture.	
		<b>Mural nodule:</b> Enhancing solid component, measuring $\geq 3$ mm, arising from the wall or septation of an adnexal lesion, with nodular appearance.	
		<b>Irregular septation:</b> Enhancing linear strand that runs from one internal surface of the cyst to the contralateral side demonstrating an uneven margin that varies in thickness along its length.	
		<b>Irregular wall:</b> Enhancing cyst wall demonstrating an uneven margin.	
		<b>Larger solid portion:</b> Enhancing component of an adnexal lesion that does not fit into the categories of papillary projection, mural nodule, or irregular septation/wall.	
	<b>Other solid components, not considered solid tissue</b>		
		<b>Smooth septations/walls:</b> Even contour or margin with no irregularities, mural nodules or papillary projections.	
		<b>Blood clot, non-enhancing debris and fibrin strands:</b> Solid-appearing material within a cyst that does not enhance.	
		<b>Fat:</b> Lipid-containing material that does not enhance.	
		<b>Hair, calcification and a Rokitansky nodule:</b> Other components of a dermoid not considered solid tissue.	
<b>6</b>	<b>Enhancement: T1WI post-contrast</b>		
<b>6a</b>	<b>Dynamic contrast enhancement with time intensity curves</b>		
		<b>Low risk curve:</b> Enhancement of the solid tissue within the adnexal lesion with minimal and gradual increase in signal over time with no well-defined shoulder and no plateau.	
		<b>Intermediate risk curve:</b> Enhancement of the solid tissue within the adnexal lesion with an initial slope less than or equal to the myometrium, moderate increase in signal intensity with a plateau.	
		<b>High risk curve:</b> Enhancement of the solid tissue within the adnexal lesion with an initial slope greater than the myometrium, marked increase in signal intensity with a plateau.	
<b>6b</b>	<b>Non-dynamic contrast enhancement at 30-40 seconds post-injection</b>		

		<b>Less than or equal to the myometrium:</b> Enhancement of the solid tissue within the adnexal lesion is equal to or hypoenhancing to the outer myometrium at 30-40 seconds post-contrast injection.	
		<b>Greater than the myometrium:</b> Enhancement of the solid tissue within the adnexal lesions is greater than the outer myometrium at 30-40 seconds post-contrast injection.	
<b>7 General and Extra-Ovarian Findings</b>			
<b>7a</b>	<b>Peritoneal fluid</b>	<p><b>Physiologic:</b> Small amount of fluid inside the pouch of Douglas or cul-de-sac or between the uterus and bladder.</p> <p><b>Ascites:</b> Fluid outside the pouch of Douglas or cul-de-sac or fluid extending beyond the space between the uterus and bladder.</p>	
<b>7b</b>	<b>Fallopian tube descriptors</b>	<p><b>Tubular:</b> Substantially longer in one dimension than in the two perpendicular dimensions.</p> <p><b>Endosalpingeal folds:</b> Incomplete septations or short round projections, orthogonal to the length of the tube.</p>	
<b>7c</b>	<b>Peritoneal inclusion cyst</b>	Cyst following contour of adjacent pelvic organs; or normal ovary at the edge of/ or surrounded by a cystic mass.	
<b>7d</b>	<b>Ovarian torsion</b>	<p><b>Twisted pedicle:</b> swirling appearance of the broad ligament or ovarian pedicle.</p> <p><b>Massive ovarian edema:</b> Enlarged ovary with edematous central stroma.</p> <p><b>Ovarian infarction:</b> Lack of enhancement of the ovary on T1WI post- contrast.</p>	
<b>7e</b>	<b>Peritoneal thickening, nodules</b>	<p><b>Thickening, smooth:</b> Uniform thickening, without focal nodularity.</p> <p><b>Thickening, irregularity:</b> Nonuniform thickening or focal areas of nodularity.</p>	