



O-RADS MRI Risk Stratification and Management System

		O-RADS MRI RISK Stratification and management System					
	O-RADS MRI Score	Risk Category	Positive Predictive Value for Malignancy^	Lexicon Description			
	0	Incomplete Evaluation	N/A	N/A			
	1	Nerrot	N/A	No ovarian lesion			
		Normal Ovaries		Follicle defined as simple cyst ≤ 3 cm in a premenopausal woman			
				Hemorrhagic cyst ≤ 3 cm in a premenopausal woman			
				Corpus luteum +/- hemorrhage ≤ 3 cm in a premenopausal woman			
	2	Almost Certainly Benign	<0.5%^	Cyst: Unilocular- any type of fluid content • No wall enhancement • No enhancing solid tissue*			
				Cyst: Unilocular – simple or endometriotic fluid content • Smooth enhancing wall • No enhancing solid tissue			
				Lesion with lipid content** • No enhancing solid tissue			
				Lesion with "dark T2/dark DWI" solid tissue • Homogeneously hypointense on T2 and DWI			
				Dilated fallopian tube - simple fluid content Thin, smooth wall/endosalpingeal folds with enhancement No enhancing solid tissue			
				Para-ovarian cyst – any type of fluid • Thin, smooth wall +/- enhancement • No enhancing solid tissue			
	3	Low Risk	~5%^	Cyst: Unilocular – proteinaceous, hemorrhagic or mucinous fluid content*** • Smooth enhancing wall • No enhancing solid tissue			
				Cyst: Multilocular - Any type of fluid, no lipid content • Smooth septae and wall with enhancement • No enhancing solid tissue			
				Lesion with solid tissue (excluding T2 dark/DWI dark) Low risk time intensity curve on DCE MRI			
				Dilated fallopian tube – • Non-simple fluid: Thin wall /folds • Simple fluid: Thick, smooth wall/ folds • No enhancing solid tissue			
	4	lotermediate Nick	~50%^	Lesion with solid tissue (excluding T2 dark/DWI dark) Intermediate risk time intensity curve on DCE MRI If DCE MRI is not feasible, score 4 is any lesion with solid tissue (excluding T2 dark/DWI dark) that is enhancing ≤ myometrium at 30-40s on non-DCE MRI Lesion with lipid content			
				Lesion with lipid content Large volume enhancing solid tissue			
	5	High Risk	~90%^	 Hesion with solid tissue (excluding T2 dark/DWI dark) High risk time intensity curve on DCE MRI If DCE MRI is not feasible, score 5 is any lesion with solid tissue (excluding T2 dark/DWI dark) that is enhancing > myometrium at 30-40s on non-DCE MRI 			
				Peritoneal, mesenteric or omental nodularity or irregular thickening with or without ascites			
	^A Approximate PPV based on data from Thomassin-Naggara, et al. O-RADS MRI Score for Risk Stratification of Sonographically Indeterminate Adnexal Masses. JAMA Network Open. 2020;3(1):e1919896. Please note that the PPV provided applies to the score category overall and not to individual characteristics. Definitive PPV are not currently available for individual characteristics. The PPV values for malignancy include both borderline tumors and invasive cancers.						
	septation/wall or	or other larger solid	portions.	nhances and conforms to one of these morphologies: papillary projection, mural nodule, irregular			
				ion containing lipid does not change to O-RADS MRI 4.			
	-		-menopausal womar ement with a time res	n is O-RADS MRI 1. solution of 15 seconds or less			
	DOC - dynamic	s some as crinal lot	amont what a unit let				

How do I know if the DCE is low, intermediate, or high risk?

Step 1 Find the DCE:

AX VIBE 20 Phase_W? Labels may change. Look for a T1 FS that shows multiple post gad timepoints



Step 2: Send to Philips

	Window Width/Level Measurements Annotations Image Processing
5	✓ Scout Line Mode Localizer Mode Multi Image Mode Create Popup Clone Monitor Layout Select Series Select Relevant Exam Key Image Play Cine
25.4	Leave Link Unlink All Deactivate All Links
	Save Print Flip/Rotate/Sort/Split Zoom Presets Magnifying Glass
5 Y 1	Series Matching Rules Series Matching Rule Groups
10 A 10 A 10	Philips Applications
10	Peer Review Open Exam Close Exam MPR MIP Volume Rendering Restore Bookmark Powerscribe360: Dictate this exam.
2	
C.F.	and the second
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

Space К Shift + L Y MR Diffusion MR Echo Accumulation MR IViewBOLD MR Neuro Perfusion MR SpectroView MR Subtraction MR T1Perfusion CT Viewer Multimodality Viewer Volume Vision

F11 F12 ٠

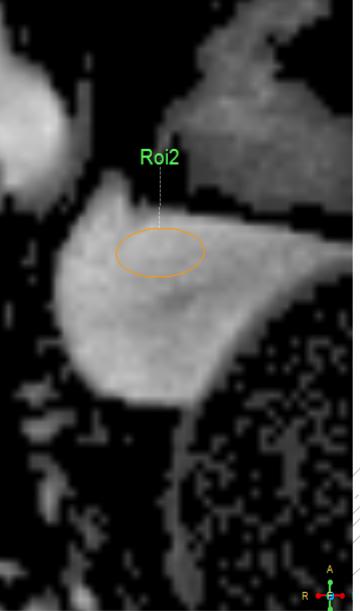
Step 3: Create curves "Measure ROIs "→ Ellipse → Place on enhancing nodule/mass

		Contract
🗸 Max rel enhan 🗸 TO		Contrast
🗸 Time to peak 🔽 Wash in	rate	
🗸 🛛 Wash out rate 🔽 Brevity 🤄	of enh	
✓ Area under th		
4. Measure ROIs	? ^	
Draw tissue ROI	0 •	
5. Select underlay	Smoo O Ellips	othed Contour se
	Rreeh	ha _{Ellipse} our Roil
Generate series		
		Dt 2:15

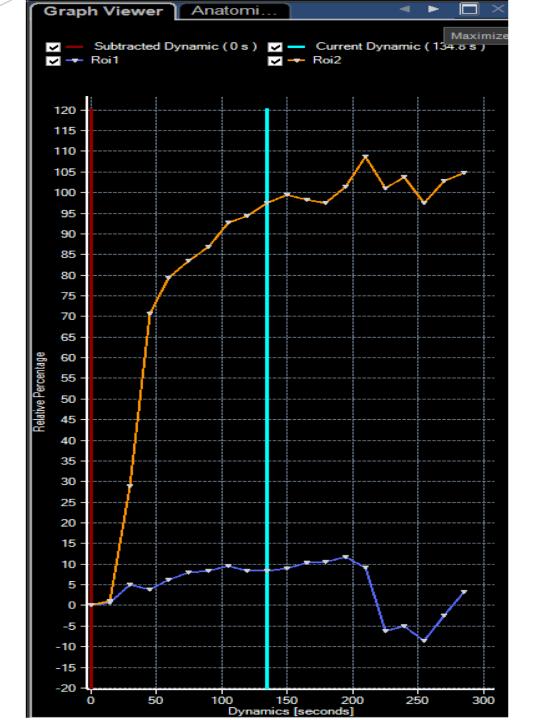
Make a 2nd ROI on normal myometrium

🗸 Tir	me to peak	\checkmark	Wash in	rate		
V W	Wash out rate 🗸		Brevity of enh			
✓ Ar	ea under th					
4. Meas	sure ROIs			?	^	
Draw ti	ssue ROI			0	▼.	4
5. Selec	t underlay			?	Ellipse	

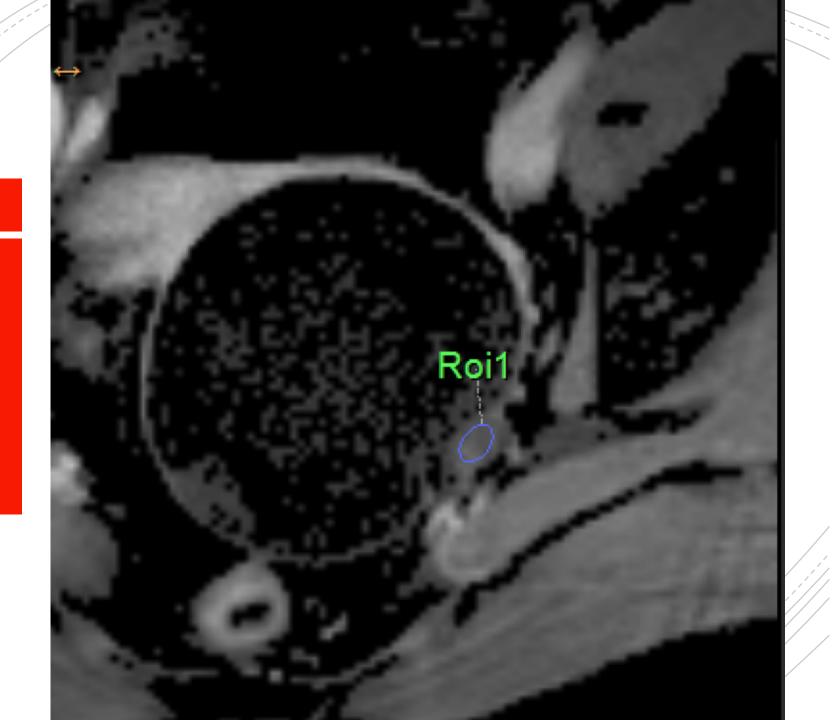
Generate series



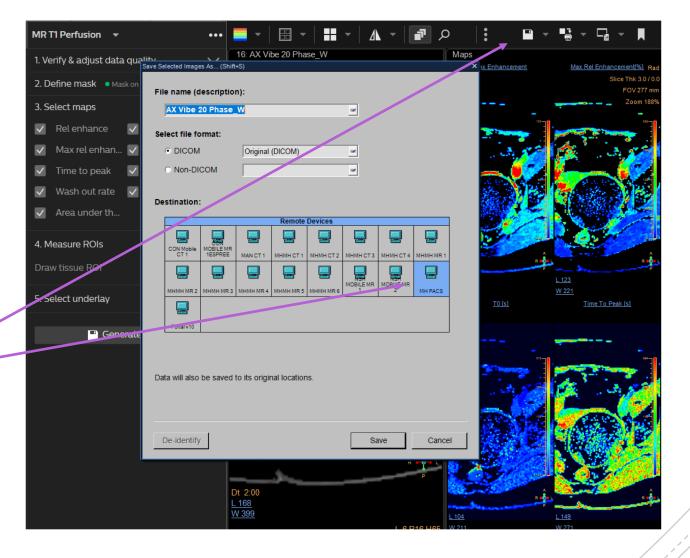
This graph will be on screen automatically



Step 4 Scroll images back to ROI 1 (the mass)



Step 5 Press Save button (floppy disk) Save to <u>MH PACS</u> ~



Compare to O-RADS Lexicon definition of low, intermediate, and high risk

