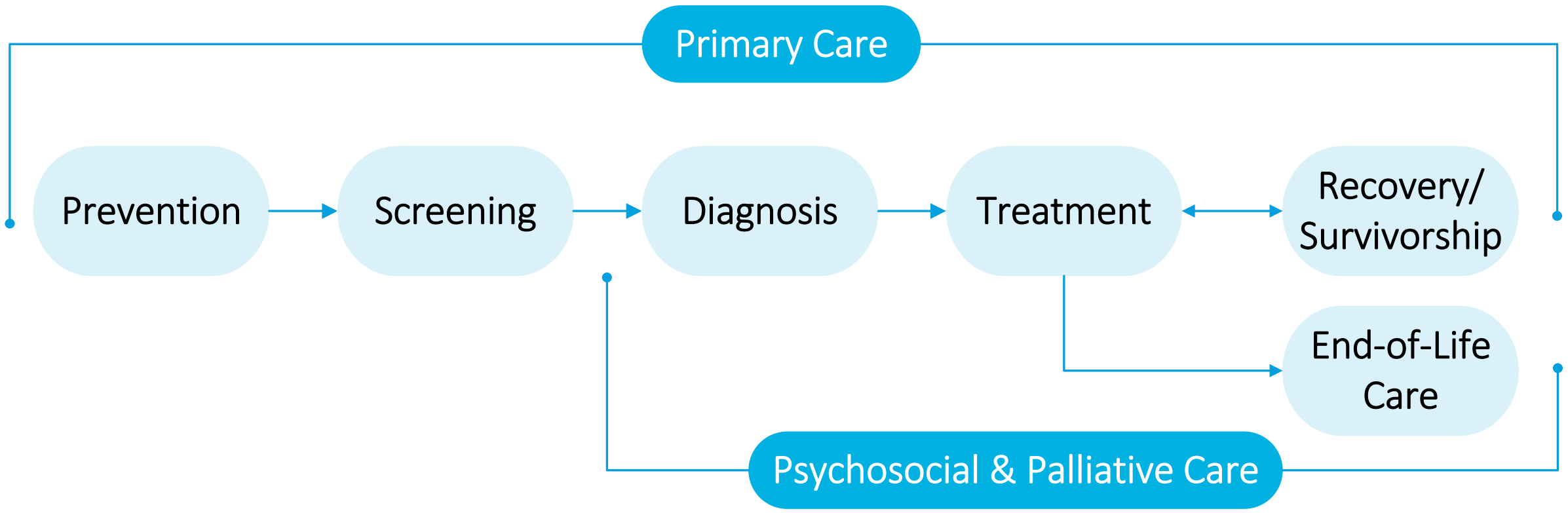


Ovarian Cancer Diagnosis Pathway Map

Version 2025.04



Disclaimer: The pathway map is intended to be used for informational purposes only. The pathway map is not intended to constitute or be a substitute for medical advice and should not be relied upon in any such regard. Further, all pathway maps are subject to clinical judgment and actual practice patterns may not follow the proposed steps set out in the pathway map. In the situation where the reader is not a health care provider, the reader should always consult a healthcare provider if they have any questions regarding the information set out in the pathway map. The information in the pathway map does not create a physician-patient relationship between Ontario Health (Cancer Care Ontario) and the reader.

Target Population

- The pathway map reflects the clinical management of patients with signs or symptoms suspicious for epithelial ovarian cancer.
- These patients are in need of diagnostic work-up.

Pathway Map Considerations

- For additional information about the optimal organization of gynecologic oncology services in Ontario refer to [GL #4-11](#).
- Primary care providers play an important role in the cancer journey and should be informed of relevant tests and consultations. Ongoing care with a primary care provider is assumed to be part of the pathway map. For patients who do not have a primary care provider, [Health811](#) is a government resource that helps patients find a doctor or nurse practitioner.
- Throughout the pathway map, a shared decision-making model should be implemented to enable and encourage patients to play an active role in the management of their care. For more information see [Person-Centered Care Guideline](#) and [EBS #19-2 Provider-Patient Communication](#).*
- Hyperlinks are used throughout the pathway map to provide information about relevant Ontario Health (Cancer Care Ontario) tools, resources and guidance documents.
- The term ‘health care provider’, used throughout the pathway map, includes primary care providers and specialists, e.g. family doctors, nurse practitioners, and emergency physicians.
- Multidisciplinary Cancer Conferences (MCCs) may be considered for all phases of the pathway map. For more information on Multidisciplinary Cancer Conferences, visit [MCC Tools](#).
- For more information on wait time prioritization, visit [Surgery](#).
- Clinical trials should be considered for all phases of the pathway map.
- Psychosocial oncology (PSO) is the interprofessional specialty concerned with understanding and treating the social, practical, psychological, emotional, spiritual and functional needs and quality-of-life impact that cancer has on patients and their families. Psychosocial care should be considered an integral and standardized part of cancer care for patients and their families at all stages of the illness trajectory. For more information, visit [EBS #19-3](#).*

Pathway Map Legend

Colour Guide	Shape Guide	Line Guide
Primary Care	Intervention	Required
Palliative Care	Decision or assessment point	Possible
Pathology	Patient (disease) characteristics	
Organized Diagnostic Assessment	Consultation with specialist	
Surgery	Exit pathway	
Radiation Oncology	Off page reference	
Medical Oncology	Referral	
Radiology		
Multidisciplinary Cancer Conference (MCC)		
Genetics		
Psychosocial Oncology (PSO)		

Pathway Map Disclaimer

This pathway map is a resource that provides an overview of the treatment that an individual in the Ontario cancer system may receive.

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* **Note.** [EBS #19-2](#) and [EBS #19-3](#) are older than 3 years and are currently listed as ‘For Education and Information Purposes’. This means that the recommendations will no longer be maintained but may still be useful for academic or other information purposes.

O-RADS™ Ultrasound Risk Stratification and Management System for Classic Benign Lesions (O-RADS™ 2)

Lexicon	Descriptors and Definitions For any atypical features on initial or follow-up exam, use other lexicon descriptors (e.g., unilocular, multilocular, solid, etc.).	Management If sonographic features are only suggestive, and overall assessment is uncertain, consider follow-up US within 3 months.
Typical Hemorrhagic Cyst	Unilocular cyst, no internal vascularity* , and at least one of the following: <ul style="list-style-type: none">Reticular pattern (fine, thin intersecting lines representing fibrin strands)Retractile clot intracystic component with straight, concave, or angular margins)	Imaging*: <ul style="list-style-type: none">Premenopausal:<ul style="list-style-type: none">=5 cm: None>5 cm but <10 cm: Follow-up US in 2-3 monthsPostmenopausal:<ul style="list-style-type: none"><10 cm, options to confirm include:<ul style="list-style-type: none">Follow-up US in 2-3 monthsUS specialist (if available)MRI (with O-RADS MRI score) Clinical: Referral to a Gynecologist** Note: Hemorrhagic cysts typically do not occur in post-menopausal people. If this is the case for your person, consider recategorizing the lesion with other lexicon descriptors.
Typical Dermoid Cyst	Cystic lesion with =3 locules, no internal vascularity* , and at least one of the following: <ul style="list-style-type: none">Hyperechoic component(s) (diffuse or regional) with shadowingHyperechoic lines and dotsFloating echogenic spherical structures	Imaging: <ul style="list-style-type: none">=3 cm: May consider follow-up US in 12 months***>3 cm but <10 cm: If not surgically excised, follow-up US in 12 months*** Clinical: Referral to a Gynecologist**
Typical Endometrioma	Cystic lesion with =3 locules, no internal vascularity* , homogeneous low-level/ ground glass echoes, and smooth inner walls/ septation(s) <ul style="list-style-type: none">± Peripheral punctate echogenic foci in wall	Imaging: <ul style="list-style-type: none">Premenopausal:<ul style="list-style-type: none"><10 cm: If not surgically excised, follow-up US in 12 months***Postmenopausal:<ul style="list-style-type: none"><10 cm and initial exam, options to confirm include:<ul style="list-style-type: none">Follow-up US in 2-3 monthsUS specialist (if available)MRI (with O-RADS MRI score) Then, if not surgically excised, recommend follow-up US in 12 months*** Clinical: Referral to a Gynecologist**
Typical Paraovarian Cyst	Simple cyst separate from the ovary	Imaging: None Clinical: None
Typical Peritoneal Inclusion Cyst	Fluid collection with ovary at margin or suspended within that conforms to adjacent pelvic organs <ul style="list-style-type: none">± Septations (representing adhesions)	Imaging: None
Typical Hydrosalpinx	Anechoic, fluid-filled tubular structure <ul style="list-style-type: none">± Incomplete septation(s) (representing adhesions)Endosalpingeal folds (short, round projections around the inner walls)	Clinical: Referral to a Gynecologist**

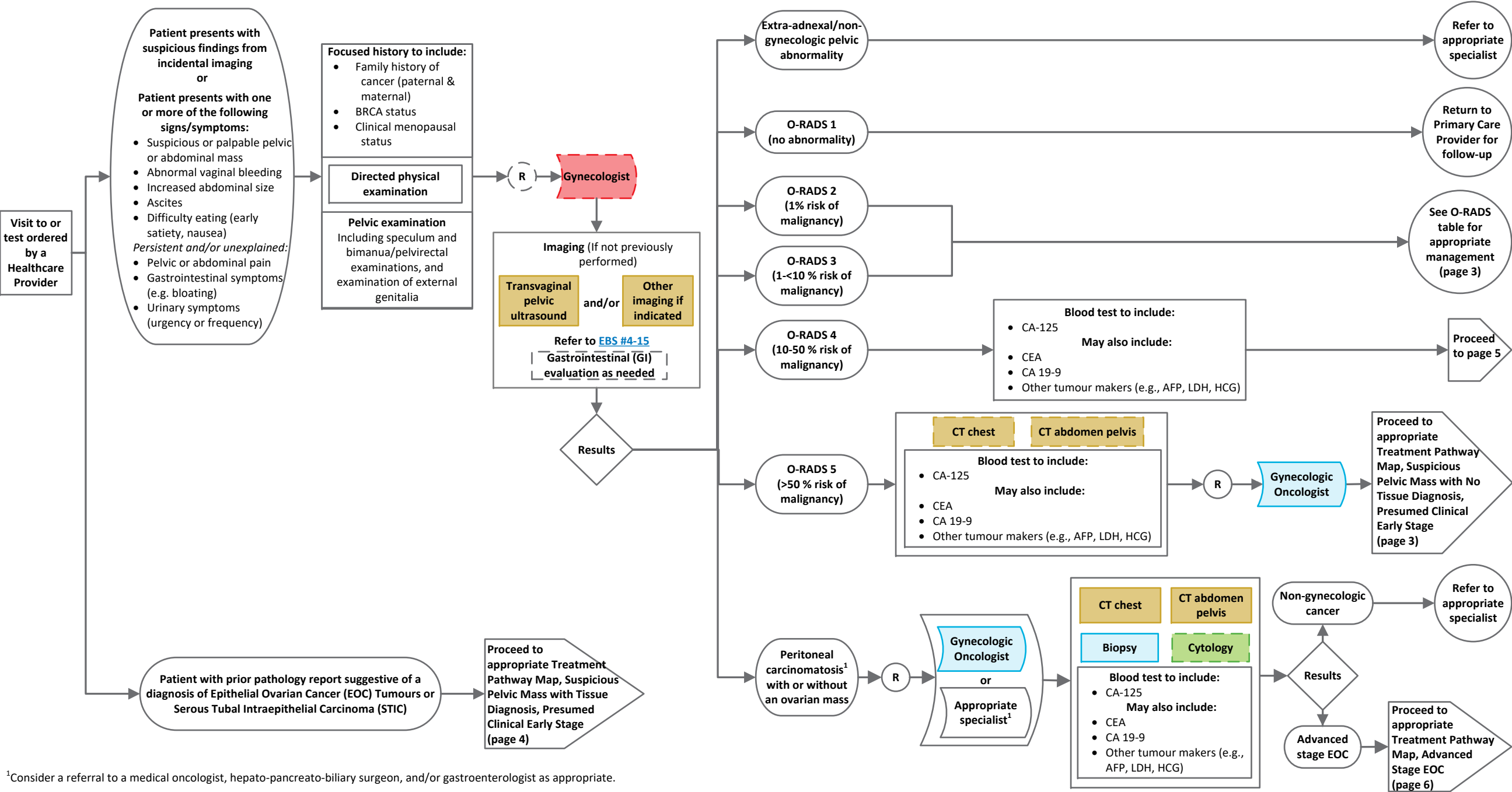
MRI = magnetic resonance imaging; US = ultrasound
*Excludes vascularity in walls or intervening septation(s)
**As needed for management of clinical issues
***There is currently a paucity of evidence for defining the need, optimal duration, or interval of timing for surveillance. If stable, consider US follow-up at 24 months from initial exam, then as clinically indicated. Specifically, evidence does support an increasing risk of malignancy in endometriomas following menopause and those present greater than 10 years. See the following paper for additional information:
[O-RADS US Risk Stratification and Management System: A Consensus Guideline from the ACR O-RADS Committee.](#)
+The recommendation differs from O-RADS™ v2022.

O-RADS™ Ultrasound Risk Stratification and Management System Adapted for the Ontario Healthcare Context

O-RADS™ Score	Risk Category	Lexicon Descriptors		Management	
				Premenopausal	Postmenopausal
0	Incomplete Evaluation [N/A]	Lesions features relevant for risk stratification cannot be accurately characterized due to technical factors		Repeat US study or MRI	
1	Normal Ovary [N/A]	No ovarian lesion		None	
2	Almost certainly benign [$<1\%$]	Simple Cyst	=3 cm	N/A (see follicle)	None
			>3 to 5 cm	None	Follow-up US in 12 months*
			>5 to <10 cm	Follow-up US in 12 months*	Follow-up US in 12 months*
		Unilocular, smooth, non-simple cyst, smooth (internal echoes and/or incomplete septations)	=3 cm	None	Follow-up US in 12 months*
		Bilocular, smooth cyst	>3 cm to <10 cm	Follow-up US in 6 months*	
		Typical benign ovarian lesion (Table 2)	<10 cm	See Table 2 (Classic Benign Lesions) for descriptors and management	
3	Low Risk Malignancy [1 - <10%]	Typical benign extraovarian lesion (Table 2)	Any size		
		Typical benign ovarian lesion (Table 2), =10 cm		Imaging: <ul style="list-style-type: none">If not surgically excised, consider follow-up US within 6 months**If solid, may consider US specialist (if available) <i>or</i> MRI (with O-RADS MRI score)*** Clinical: Referral to a gynecologist	
		Uni- or bilocular cyst, smooth, =10 cm			
		Unilocular cyst, irregular, any size			
		Multilocular cyst, smooth, <10 cm, CS <4			
4	Intermediate Risk [10 - <50%]	Solid lesion, ± shadowing, smooth, any size, CS = 1			
		Solid lesion, shadowing, smooth, any size, CS 2-3			
		Bilocular cyst without solid component(s)	Irregular, any size, any CS	Imaging: <ul style="list-style-type: none">Options include:<ul style="list-style-type: none">US specialist (if available)MRI (with O-RADS MRI score)*** Clinical: Referral to a gynecologist with gyne-oncologist consultation <i>or</i> solely by gyne-oncologist	
		Multilocular cyst without solid component(s)	Smooth, =10 cm, CS <4 Smooth, any size, CS = 4 Irregular, any size, any CS		
		Unilocular cyst with solid component(s)	<4 pps or solid component(s) not considered a pp, any size		
		Bi- or multilocular cyst with solid component(s)	Any size, CS = 1-2		
5	High Risk [=50%]	Solid lesion, non-shadowing	Smooth, any size, CS = 2-3		
		Unilocular cyst, = 4 pps, any size, any CS		Imaging: While referral pending, may consider ordering a staging CT (chest, abdomen, pelvis)*	
		Bi- or multilocular cyst with solid component(s), any size, CS = 3-4			
		Solid lesion, ± shadowing, smooth, any size, CS = 4			
		Solid lesion, irregular, any size, any CS		Clinical: Direct urgent referral to a gyne-oncologist*	
		Ascites and/or peritoneal nodules****			

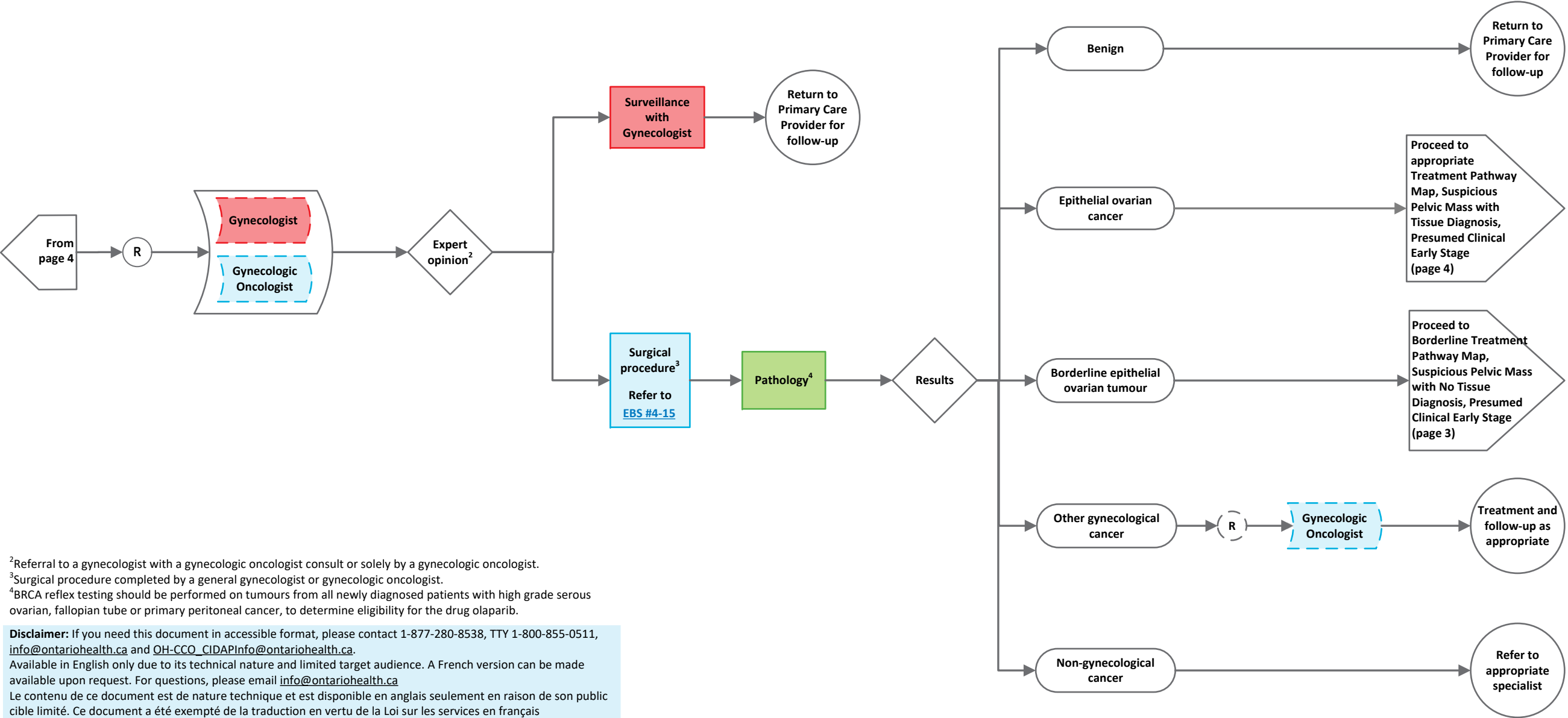
CS = colour score; gyne = gynecologic; MRI = magnetic resonance imaging; N/A = not applicable; US = ultrasound; pps = papillary projections
* Shorter imaging follow-up may be considered in some scenarios (e.g., clinical factors). If smaller ($\geq 10 - 15\%$ decrease in average linear dimension), consider follow-up US at 12 and 24 months from initial exam, then management per gynecology. For changing morphology, reassess using lexicon descriptors. Clinical management with gynecology as needed.
** There is a paucity of evidence for defining the optimal duration or interval for imaging surveillance. Shorter follow-up may be considered in some scenarios (e.g., clinical factors). If stable, follow-up at 12 and 24 months from initial exam, then as clinically indicated. For changing morphology, reassess using lexicon descriptors.
*** MRI with contrast has higher specificity for solid lesions, and cystic lesions with solid component(s).
**** Not due to other malignant or non-malignant etiologies; specifically, must consider other etiologies of ascites in categories 1-2.
+The recommendation differs from O-RADS™ v2022.

Screen for psychosocial needs, and assessment and management of symptoms. [Click here for more information about symptom assessment and management tools](#)



¹Consider a referral to a medical oncologist, hepato-pancreato-biliary surgeon, and/or gastroenterologist as appropriate.

Screen for psychosocial needs, and assessment and management of symptoms. [Click here for more information about symptom assessment and management tools](#)



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