



# Pelvic Pain

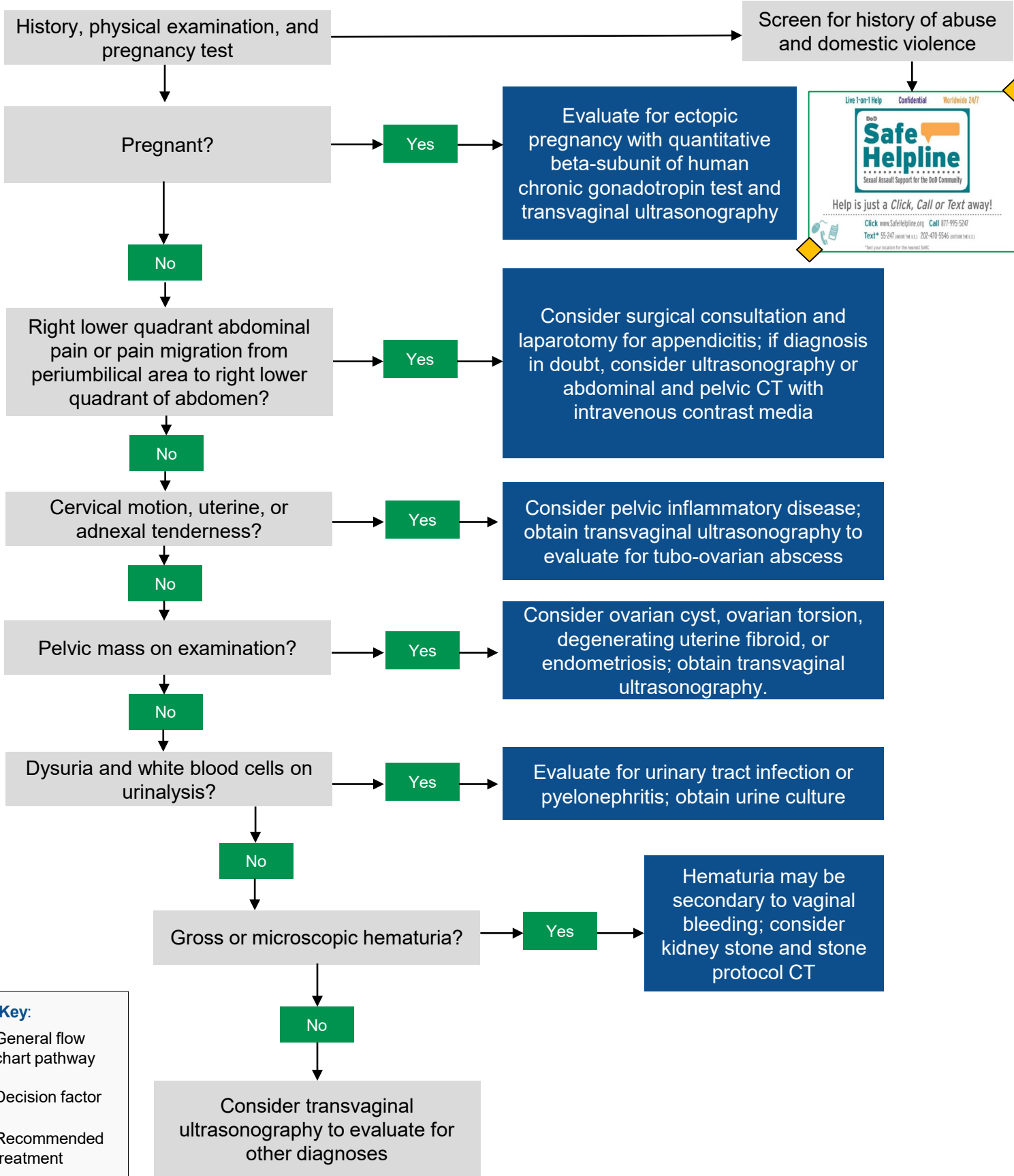
## Pre-Evaluation Parameters

If patient presents with ***ACUTE PELVIC PAIN*** and has ***UNSTABLE VITAL SIGNS (HYPOTENSION, TACHYCARDIA, OR FEVER)*** ***IMMEDIATE MEDEVAC TO HIGHER LEVEL OF CARE INDICATED!!***

If patient presents with acute pelvic pain and has stable vital signs, then proceed with following assessment. Diagnostic imaging may be performed as indicated while in port.



# Flow Chart to Evaluate Pelvic Pain Decision-Making Process

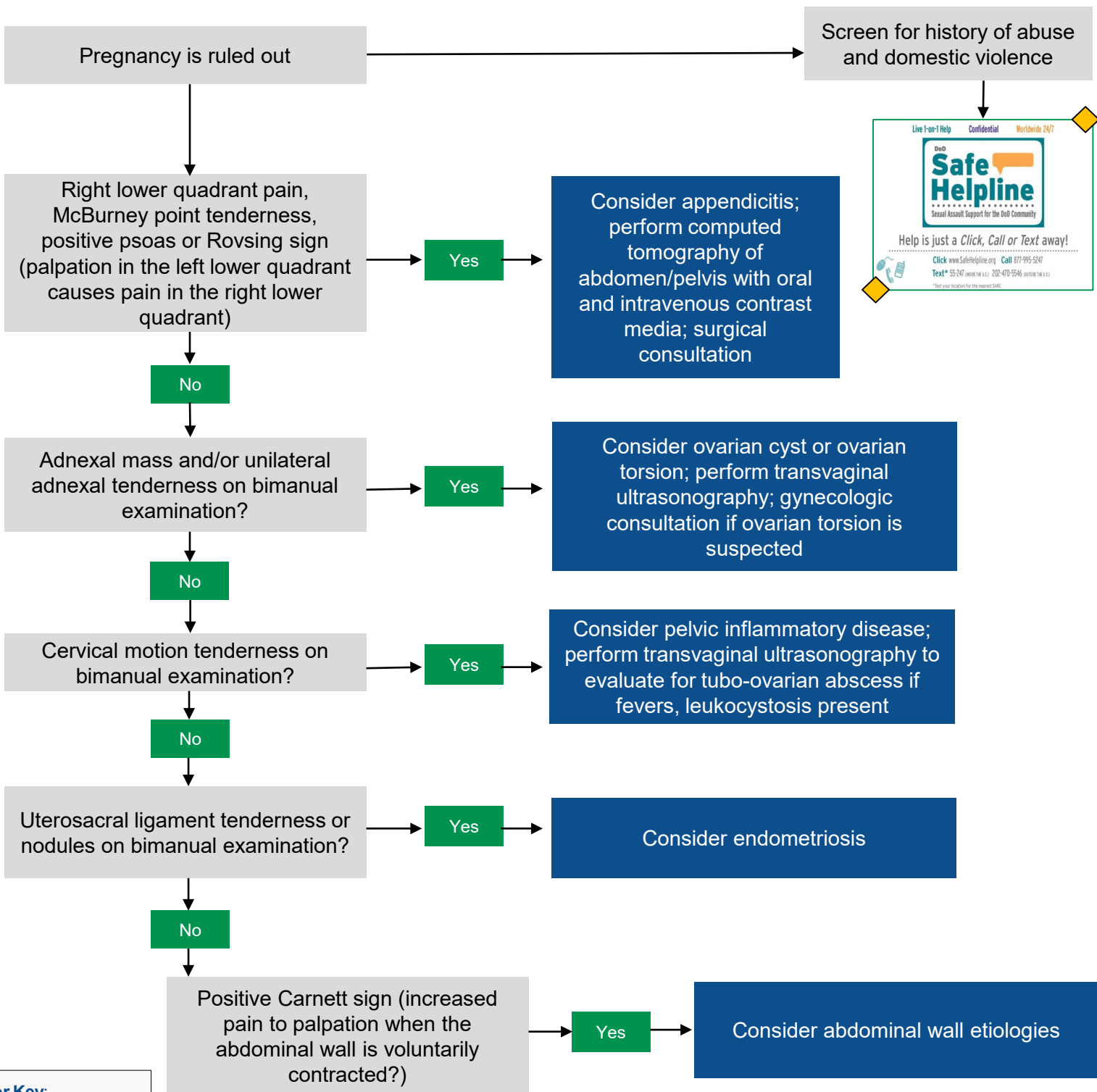


**Color Key:**

- General flow chart pathway
- Decision factor
- Recommended treatment
- Click for more information



# Flow Chart to Evaluate Pelvic Pain Decision-Making Process



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# Pelvic Pain: History, Physical Exam, and Testing



## History:

- Location, radiation, change over time
- Onset sudden or gradual, duration, circumstance of origination
- Character, per patient words (dull, sharp, colicky, waxing, waning), cyclic, what makes it worse or better, pain related behavior does patient display, pain scale
- Prior history of pain, is it similar or different
- Any other symptoms associated such as discharge/bleeding associated, time of month patient in cycle, N/V/D/Fever
- GYN history- regular, irregular, missed menses, lochia amount, duration, mode of contraception, sexually active, prior STI's, Pap results, surgeries

## Physical Exam:

- General: appearance, comfortable vs writhing in pain, disoriented/hallucinating
- Vital sign:- Hypotension, tachycardia, or fever emergent transfer
- Abdominal Inspection: distention, visible masses, erythema, ecchymosis, scars, hernias; Auscultation - bowel sound character, may use stethoscope for anxious patients anticipating pain; Palpation - peritoneal signs, areas of tenderness, trigger points, masses, organomegaly, abdominal wall tense test (Carnett's sign), rebound tenderness; Examine flank, inguinal area, and lower back for ecchymosis, tenderness, and lymphadenopathy
- Pelvis
- External genitalia- rashes, edema, discoloration; palpate Bartholin and Skene's glands and urethra for abnormality/tenderness/drainage
- Speculum
- Vagina- abnormal discharge, laceration, or foreign body
- Cervix- abnormal discharge, laceration, polyps, ulceration, mass, or evidence of infection
- Obtain samples for GC/CT, KOH, and Wet Prep for microscopic examination
- Bimanual
- Palpate introital and pelvic floor muscles for abnormal tenderness or trigger points, uterus size, shape, and symmetry, cervical motion tenderness, adnexa for masses/tenderness

## Testing:

- Laboratory- urine/serum hCG, CBC, UA with culture if UA shows hematuria or pyuria, GC/CT, KOH and Wet Prep if indicated
- Imaging- Ultrasound of pelvis, abdominal/pelvic CT and/or MRI



# Location of Pain for Common Diseases that Cause Acute Pelvic Pain



<b>Periumbilical pain</b>	<b>Right lower quadrant</b>
All visceral diseases in their early stages	Appendicitis
Abdominal trauma	Ectopic pregnancy
Abdominal wall hernias	Adnexal torsion
Bowel obstruction	Ovarian cyst or ruptured ovarian cyst
<b>Diffuse or generalized pain</b>	Urinary calculi
All visceral pathologies late in their course	Endometriosis
Pelvic inflammatory disease	Pyelonephritis
Endometriosis	Meckel diverticulitis
Muscular strain or sprain	Regional enteritis (Crohn's disease)
Bowel obstruction	Salpingitis
<b>Left lower quadrant</b>	<b>Suprapubic pain</b>
Adnexal torsion	Obstruction of the urinary bladder
Constipation	Cystitis
Crohn's disease	Urinary calculi
Diverticulitis	<b>Lumbar radiation</b>
Ectopic pregnancy	Colonic obstruction
Endometriosis	Pyelonephritis
Inflammation or perforation of colonic carcinoma	Urinary calculi
Irritable bowel syndrome	<b>Flank pain</b>
Ovarian cyst or ruptured ovarian cyst	Urinary calculi
Pyelonephritis	
Salpingitis	
Urinary calculi	

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# Pelvic Causes of Abdominal Pain in Women



Pelvic causes of abdominal pain in women	Lateralization	Clinical features	Comments
Ectopic pregnancy	Either side or diffuse abdominal pain	Vaginal bleeding with abdominal pain, typically six to eight weeks after last menstrual period.	Patients can present with life-threatening hemorrhage if ruptured.
Pelvic inflammatory disease	Lateralization uncommon	Characterized by the acute onset of lower abdominal or pelvic pain, pelvic organ tenderness, and evidence of inflammation of the genital tract. Often associated with cervical discharge.	Wide spectrum of clinical presentations.
Ovarian torsion	Localized to one side	Acute onset of moderate-to-severe pelvic pain, often with nausea and possibly vomiting, in a woman with an adnexal mass.	Generally not associated with vaginal discharge.
Ruptured ovarian cyst	Localized to one side	Sudden-onset unilateral lower abdominal pain. The classic presentation is sudden onset of severe focal lower quadrant pain following sexual intercourse.	Generally not associated with vaginal discharge.
Endometriosis		Associated with dysmenorrhea, pelvic pain, dyspareunia, and/or infertility, but other symptoms may also be present (eg, bowel or bladder symptoms).	Patients may present with one symptom or a combination of symptoms.
Acute endometritis		Most often preceded by pelvic inflammatory disease.	Diagnostic criteria the same as pelvic inflammatory disease.
Chronic endometritis		Present with abnormal uterine bleeding, which may consist of intermenstrual bleeding, spotting, postcoital bleeding, menorrhagia, or amenorrhea. Vague, crampy lower abdominal pain accompanies the bleeding or may occur alone.	
Leiomyomas (fibroids)		Symptoms related to bulk or infrequently acute pain from degeneration or torsion of pedunculate tumor. Pain may be associated with a low-grade fever, uterine tenderness on palpation, elevated white blood cell count, or peritoneal signs.	
Ovarian hyperstimulation		Abdominal distention/discomfort, nausea/vomiting, and diarrhea. More severe cases can have severe abdominal pain, ascites, intractable nausea, and vomiting.	Women undergoing fertility treatment.
Ovarian cancer		Abdominal or pelvic pain. May have associated symptoms of bloating, urinary urgency or frequency, or difficulty eating/feeling full quickly.	
Ovulatory pain (Mittelsmerz)		Occurs mid-cycle, coinciding with timing of ovulation.	May be right- or left-sided, depending on site of ovulation during that cycle.
Pregnancy and related complications*			

\* Refer to the UpToDate topics on abdominal pain.



# Causes of Chronic Pelvic Pain



## Gynecologic:

- Endometriosis
- Leiomyoma
- Adenomyosis
- Recurrent ovarian cysts
- Hydrosalpinx
- Ovarian remnant syndrome
- Pelvic inflammatory disease
- Pelvic adhesive disease
- Post-tubal ligation pain syndrome

## Gastroenterologic:

- Irritable bowel syndrome
- Inflammatory bowel disease
- Chronic constipation
- Colorectal carcinoma
- Celiac disease
- Abdominal/pelvic hernias

## Urologic:

- Interstitial cystitis/painful bladder syndrome
- Radiation cystitis
- Bladder cancer
- Urethral syndrome
- Recurrent cystitis
- Recurrent/chronic urolithiasis

## Musculoskeletal:

- Abdominal wall myofascial pain (including trigger points)
- Pelvic floor tension myalgia
- Fibromyalgia
- Coccygodynia
- Piriformis syndrome

## Vascular:

- Vulvar varicosities
- Pelvic congestion syndrome

## Neurologic:

- Abdominal wall cutaneous nerve entrapment (ilionguinal and iliohypogastric)
- Pudendal neuralgia
- Central sensitization of pain