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2. Any applicable laws and regulations
3. Any relevant collateral source materials including coverage policies
4. The specific facts of the particular situation

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# Pelvis Imaging Guidelines

## Abbreviations for Pelvis Imaging Guidelines

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<tr>
<td>CA-125</td>
<td>cancer antigen 125 test</td>
</tr>
<tr>
<td>CT</td>
<td>computed tomography</td>
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<tr>
<td>FSH</td>
<td>follicle-stimulating hormone</td>
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<tr>
<td>GTN</td>
<td>gestational trophoblastic neoplasia</td>
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<tr>
<td>HCG</td>
<td>human chorionic gonadotropin</td>
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<tr>
<td>IC/BPS</td>
<td>interstitial cystitis/bladder pain syndrome</td>
</tr>
<tr>
<td>IUD</td>
<td>intrauterine device</td>
</tr>
<tr>
<td>KUB</td>
<td>kidneys, ureters, bladder (frontal supine abdomen radiograph)</td>
</tr>
<tr>
<td>LH</td>
<td>luteinizing hormone</td>
</tr>
<tr>
<td>MRA</td>
<td>magnetic resonance angiography</td>
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<td>MRI</td>
<td>magnetic resonance imaging</td>
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<tr>
<td>MSv</td>
<td>millisievert</td>
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<tr>
<td>PA</td>
<td>posteroanterior projection</td>
</tr>
<tr>
<td>PID</td>
<td>pelvic inflammatory disease</td>
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<tr>
<td>TA</td>
<td>transabdominal</td>
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<tr>
<td>TSH</td>
<td>thyroid-stimulating hormone</td>
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<tr>
<td>TV</td>
<td>transvaginal</td>
</tr>
<tr>
<td>UCPPS</td>
<td>Urologic Chronic Pelvic Pain Syndrome</td>
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<tr>
<td>WBC</td>
<td>white blood cell count</td>
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PV-1.1: General Guidelines - Overview

A current clinical evaluation (within 60 days) is required before advanced imaging can be considered. The clinical evaluation may include a relevant history and physical examination, appropriate laboratory studies, and non-advanced imaging modalities such as plain x-ray or Pelvic ultrasound (CPT® 76856 or CPT® 76857) and/or Transvaginal ultrasound (CPT® 76830).

- The clinical evaluation may also include a gynecological and/or urological exam with appropriate laboratory studies such as blood count, tumor markers and endocrine evaluations.
- Other meaningful contact (telephone call, electronic mail or messaging) by an established individual can substitute for a face-to-face clinical evaluation.

Abdominal imaging begins at the diaphragm and extends to the umbilicus or iliac crest. Pelvic imaging begins at the umbilicus and extends to the pubis.

Pregnant women should be evaluated with ultrasound or MRI without contrast to avoid radiation exposure. In carefully selected clinical circumstances, evaluation with CT may be considered with careful attention to technique and radiation protection as deemed clinically appropriate.

Ultrasound

- Transvaginal ultrasound is the recommended modality for imaging; no alternative modality has demonstrated sufficient superiority to justify routine use, and Transvaginal ultrasound (TV) (CPT® 76830) is the optimal study to evaluate adult female pelvic pathology.
- Pelvic ultrasound (complete CPT® 76856 or, limited CPT® 76857) can be performed if it is a complementary study to the TV ultrasound. It may substitute for TV in pediatric individuals or non-sexually active females.
- CPT® 76942 is used to report ultrasound imaging guidance for needle placement during biopsy, aspiration, and other percutaneous procedures.

Soft Tissue Ultrasound

- Pelvic wall, buttocks, penis and perineum - CPT® 76857
- Groin - CPT® 76882

Scrotal Ultrasound

- See
  - PV-17: Impotence/Erectile Dysfunction
  - PV-18: Penis-Soft Tissue Mass
- Ultrasound scrotum and contents - CPT® 76870
Other Ultrasound

- CPT® 93975 Duplex scan (complete) of arterial inflow and venous outflow of abdominal, pelvic, scrotal contents and/or retroperitoneal organs; complete study.
- CPT® 93976 Duplex scan (limited) of arterial inflow and venous outflow of abdominal, pelvic, scrotal contents and/or retroperitoneal organs; limited study.
- CPT® 93975 and CPT® 93976 should not be reported together during the same session.

- 3D Rendering (CPT® 76376 or CPT® 76377) See Preface-4.1: 3D Rendering in the Preface Imaging Guidelines
  - CPT® 76377 (3D rendering requiring image post-processing on an independent work station) can be considered in the following clinical scenarios:
    - Uterine intra-cavitary lesion when initial ultrasound is indeterminate (See PV-2.1: Abnormal Uterine Bleeding (AUB) and PV-12.1: Leiomyomata)
    - Hydrosalpinges or peritoneal cysts when initial ultrasound is indeterminate (See PV-5.3: Complex Adnexal Masses)
    - Lost IUD (inability to feel or see IUD string) with initial ultrasound (See PV-10.1: Intrauterine Device)
    - Uterine anomalies with initial ultrasound (See PV-14.1: Uterine Anomalies)
    - Infertility (See PV-9.1: Infertility Evaluation, Female)

CT

- CT Pelvis with contrast is a possible modality unless there is a contrast allergy or CT without contrast to look for a calculus in the distal ureter or bladder.
  - CT is not generally warranted for evaluating pelvic anatomy because it is limited due to soft tissue contrast resolution.

MRI

- Can be used as a more targeted study or for individuals allergic to iodinated contrast.
  - MRI Pelvis without contrast (CPT® 72195)
  - MRI Pelvis without and with contrast (CPT® 72197)
  - MRI Pelvis with contrast only (CPT® 72196) is rarely performed


References


PV-2: Abnormal Uterine Bleeding

PV-2.1: Abnormal Uterine Bleeding (AUB) 9
PV-2.1: Abnormal Uterine Bleeding (AUB)

- Initial evaluation includes ANY of the following:
  - Pelvic ultrasound (CPT® 76856 or CPT® 76857) and/or Transvaginal ultrasound (CPT® 76830), D&C and/or endometrial biopsy.
  
- If ultrasound is indeterminate for intracavitary lesion, 3-D Rendering (CPT® 76377) may be approved as an add-on.
  
- If ultrasound is indeterminate for intracavitary lesion, Duplex (Doppler) scan (CPT® 93975 complete; CPT® 93976 limited) may be approved as an add-on to TV ultrasound (CPT® 76830)
  
- If ultrasound is equivocal for an intracavitary lesion, saline infusion sonohysterography (CPT® 76831) may be indicated.
  
- CT is not generally warranted for evaluating AUB since uterine anatomy is limited due to soft tissue contrast resolution.
  - An abnormal endometrium found incidentally on CT should be referred for TV ultrasound for further evaluation.

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PV-3.1: Amenorrhea

- If a pregnancy test is negative:
  - Pelvic ultrasound (CPT® 76856 or CPT® 76857) and/or TV ultrasound (CPT® 76830).

The results of test(s) above determine the next steps, which may include:

- MRI Pelvis without contrast (CPT® 72195) or without and with contrast (CPT® 72197) if ultrasound is indeterminate or equivocal for Asherman’s Syndrome, Polycystic Ovary Syndrome, or Androgen Secreting Ovarian Tumor.
- Suspicion for hormonally active adrenal tumor should be evaluated by criteria in AB-16: Adrenal Cortical Lesions in the Abdomen Imaging Guidelines.
- Individuals with absent uterus or a foreshortened vagina should have karyotype evaluation. (See PV-14.1: Uterine Anomalies)
- MRI Brain (pituitary protocol) without and with contrast (CPT® 70553) if:
  - Estradiol is low with finding of inappropriately normal or low gonadotropins.
  - Prolactin (PRL) level is elevated above normal.
  - See HD-19: Pituitary in the Head Imaging Guidelines.
- Hysterosalpingogram (CPT® 74740), sonohysterosalpingography (CPT® 76831), and/or hysteroscopy can be performed if ultrasound is indeterminate for Asherman’s syndrome.

PV-3.2: Amenorrhea - Delayed Puberty

- Pelvic ultrasound (CPT® 76856 or CPT® 76857) and/or TV ultrasound (CPT® 76830)
- MRI Brain (pituitary protocol) without and with contrast (CPT® 70553) if:
  - Estradiol is low with finding of inappropriately normal or low gonadotropins
  - Prolactin (PRL) level is elevated
  - See HD-19: Pituitary in the Head Imaging Guidelines.
References
PV-4: Adenomyosis

PV-4.1: Adenomyosis
PV-4.1: Adenomyosis

- TV ultrasound (CPT® 76830) and/or Pelvic ultrasound (CPT® 76856 or CPT® 76857) is the diagnostic procedure of choice for the initial evaluation of suspected adenomyosis. Doppler ultrasound (CPT® 93975 or CPT® 93976) can be added if requested,

- MRI Pelvis without contrast (CPT® 72195) or MRI Pelvis without and with contrast (CPT® 72197) is considered a second-line imaging option after transvaginal ultrasound if:
  - Inconclusive ultrasound and the individual has failed several months (3 months) of hormone suppression

Adenomyosis – Background and Supporting Information

Adenomyosis is when endometrial tissue, which normally lines the uterus, moves into the outer muscular walls of the uterus. Adenomyosis is a histologic diagnosis and is suspected by history and physical examination. Ultrasound findings of adenomyosis include heterogeneous myometrium, myometrial cysts, asymmetric myometrial thickness, and subendometrial echogenic linear striations.

Reference

### PV-5: Adnexal Mass/Ovarian Cysts

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**PV-5.1: Suspected Adnexal Mass – Initial Evaluation in All Women**

- Transvaginal (TV) ultrasound imaging (CPT® 76830) is the initial study of choice.
  - Pelvic ultrasound (CPT® 76856 or CPT® 76857) can be performed if requested as a complimentary study to the TV ultrasound.
  - Duplex (Doppler) scan (CPT® 93975 complete; CPT® 93976 limited) may be useful to evaluate the vascular characteristics of adnexal masses once confirmed.
- MRI Pelvis without contrast (CPT® 72195), OR without and with contrast (CPT® 72197; CPT® 72195 if pregnant) may be performed following an indeterminate or equivocal TVUS
  - If the mass is unrelated to female pelvic anatomy, See **AB-13: Abdominal Mass** in the Abdomen Imaging Guidelines

**PV-5.2: Simple Cysts**

The optimal time interval between surveillance transvaginal ultrasound (TVUS) examinations has not been established.

- Initial MRI Pelvis without contrast (CPT® 72195) or without or with contrast (CPT® 72197, CPT® 72195 if pregnant) may be performed for ANY of the following:
  - Equivocal or indeterminate transvaginal and/or pelvic US
  - Follow masses suspected to be benign when they cannot be optimally visualized by US (e.g., large mass, suboptimal sonography, or obese individual)
  - Unexplained change of appearance during US follow-up
  - Other individual-driven indications (e.g., symptoms of ovarian cancer [e.g., bloating/fullness, pelvic pain], the application of established risk prediction models (e.g., family history of ovarian cancer), or correlation with abnormal serum biomarkers)

**Background and Supporting Information**

- In pregnant individual, MRI without contrast is the modality of choice if additional imaging is needed

**PV-5.3: Complex Adnexal Masses (Any mass that is not a Simple cyst)**

**Pre-Menopausal women with complex adnexal mass**

- Endometriomas
  - MRI Pelvis without and with contrast (CPT® 72197) if ultrasound equivocal or indeterminate
- Dermoids, Hydrosalpinges (Hydrosalpinx), or Peritoneal cysts
MRI Pelvis without contrast (CPT® 72195) or MRI Pelvis without and with contrast (CPT® 72197) If US equivocal or indeterminate

ANY Complex adnexal mass:
- MRI Pelvis without contrast (CPT® 72195), OR MRI without and with contrast (CPT® 72197; CPT® 72195 if pregnant) may be performed:
  - Follow masses suspected to be benign when they cannot be optimally visualized by US (e.g., large mass, suboptimal sonography, or obese individual)
  - If unexplained change of appearance during US follow-up
  - Other individual-driven indications (e.g., symptoms of ovarian cancer [e.g., bloating/fullness, pelvic pain], the application of established risk prediction models (e.g., family history of ovarian cancer), or correlation with abnormal serum biomarkers)
  - Differentiate the origin of pelvic masses that are not clearly of ovarian origin

**Post-Menopausal women with complex adnexal mass**
- MRI Pelvis without contrast (CPT® 72195) or
- MRI Pelvis without and with contrast (CPT® 72197) or
- CT Pelvis without and with contrast in this individual population is controversial but may be appropriate

**Background and Supporting Information**
- In pregnant individual, MRI without contrast is the modality of choice if additional imaging is needed
- A complex adnexal mass is any mass that is not considered to be a simple cyst. Complex mass characteristics may include solid components, the presence or absence of septations, mural projections and/or papillary excrescences, and a comment on its vascularity
- An ovarian mass suspicious for metastatic disease (e.g. from breast, uterine, colorectal or gastric cancer) should be evaluated based on the appropriate Oncology Imaging guideline. MRI is often helpful in differentiating the origin of pelvic masses that are not clearly of ovarian origin.
- Some women for whom the usual management of a pelvic mass would include surgery may be at increased risk for perioperative morbidity and mortality. In such cases, repeat imaging may be a safer alternative than immediate surgery, although the frequency of follow-up imaging has not been determined

**PV-5.4: Screening for Ovarian Cancer**
- See [ONC-21: Ovarian Cancer](#) in the Oncology Imaging Guidelines
References


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<td>PV-6.1: Endometriosis</td>
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</table>
PV-6.1: Endometriosis

- TV ultrasound (CPT® 76830) and/or Pelvic ultrasound (CPT® 76856 or CPT® 76857) is then the first line diagnostic exam for pain or abnormality on exam.
  - In most individuals, ultrasound followed by medical treatment or laparoscopy should be considered prior to advanced imaging.
  - Laparoscopy remains the definitive test for diagnosis and evaluation of endometriosis in most individuals.

- MRI Pelvis without contrast (CPT® 72195) or without and with contrast (CPT® 72197) is helpful for the following:
  - Rectal involvement, rectovaginal endometriosis, deeply infiltrative bladder endometriosis, and cul-de-sac obliteration. MRI has been shown to accurately detect rectovaginal endometriosis and cul-de-sac obliteration in the more than 90% of cases.
  - To characterize complex adnexal masses as endometrioma if ultrasound equivocal.
  - To enable complete lesion mapping prior to surgical excision of known endometriosis that was diagnosed during a previous surgery.

References
PV-7.1: Pelvic Inflammatory Disease

- Pelvic ultrasound (CPT® 76856 or CPT® 76857) and/or TV ultrasound (CPT® 76830) is the initial study for imaging of suspected pelvic inflammatory disease (PID).

- CT Abdomen and Pelvis with contrast (CPT® 74177) or CT Pelvis with contrast (CPT® 72193) if:
  - Ultrasound equivocal, or
  - Extensive abscess formation as determined by ultrasound

Background and Supporting Information

PID may be clinically suspected based on findings of abdominal pain, abnormal discharge, inter-menstrual and/or post coital bleeding, fever, low back pain, nausea/vomiting, urinary frequency, cervical motion tenderness, uterine and/or abdominal tenderness on exam

References

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<td>PV-8.1: Polycystic Ovary Syndrome</td>
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**PV-8.1: Polycystic Ovary Syndrome**

- Pelvic ultrasound (CPT® 76856 or CPT® 76857) and/or TV ultrasound (CPT® 76830) may be performed based on history, exam, and laboratory findings suspicious for this disease.

- Laboratory testing to be done prior to advanced imaging: Virilizing hormone levels (Testosterone and DHEAS). Disorders that mimic the clinical features of Polycystic ovary syndrome (PCOS) should be excluded by measuring: TSH, Prolactin, and 17-OHP (hydroxyprogesterone) levels. Others to consider based on the clinical presentation: Cortisol levels, ACTH, dexamethasone suppression testing, IGF-1, FSH, LH, estradiol.

- CT Abdomen without contrast (CPT® 74150) is the initial study if elevated serum levels of androgens* are found and an adrenal etiology is suspected. CT Abdomen with (bolus arterial phase) contrast (CPT® 74160) or chemical shift MRI Abdomen (CPT® 74181) can be considered if this initial CT is equivocal, non-diagnostic, or concerning for malignancy. See **AB-16: Adrenal Cortical Lesions** in the Abdomen Imaging Guidelines

  - * The adrenal gland preferentially secretes weak androgens such as DHEA and DHEAS. The ovary is the primary source of testosterone.

**Background and Supporting Information**

- Polycystic ovary syndrome is the most common hormonal disorder among women of reproductive age, and is one of the leading causes of infertility.

- Ovaries are often enlarged and contain numerous small cysts located along the outer edge of each ovary. Signs and symptoms may include:
  - Anovulation resulting in infrequent or prolonged menstrual periods.
  - Excessive amounts or effects of androgenic (masculinizing) hormones (e.g. excess hair growth).
  - Acne
  - Obesity

**References**


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<td>PV-9.1: Infertility Evaluation, Female</td>
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</table>
PV-9.1: Infertility Evaluation, Female

- Initial work-up of infertility in female:
  - Pelvic ultrasound (CPT® 76856 or CPT® 76857) and TV ultrasound (CPT® 76830). If indicated, color Doppler (CPT® 93975 or CPT® 93976) and/or 3D imaging (CPT® 76377) may be approved as an add-on. See PV-14: Uterine Anomalies

- If ultrasound is indeterminate:
  - Hysterosalpingography (HSG) (CPT® 74740)
  - Sonohysterosalpingography (CPT® 76831)

**Background and Supporting Information**

These guidelines are not intended for fertility follow-up and management.

If infertility is a covered service, the specialist may, over the course of several menstrual cycles, request multiple ultrasounds to follow follicular maturation and monitor endometrial thickness.

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<td>PV-10.2: Tubal Occlusion Device</td>
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PV-10.1: Intrauterine Device

- Pelvic ultrasound (CPT® 76856 or CPT® 76857) and/or TV ultrasound (CPT® 76830) if:
  - Abnormal pelvic exam prior to IUD insertion, such as pelvic mass, irregularly shaped uterus, or enlarged uterus.
  - Suspected complication at the time or immediately following IUD insertion:
    - Abnormal IUD position
    - Uterine perforation
    - Severe pain
    - Excessive bleeding
  - Failure to improve with conservative treatment (7 days) such as antibiotics for cramping, light bleeding, and/or low grade fever following IUD placement.
  - NOT as routine imaging to evaluate position prior to, immediately after and, for example, 6 weeks after insertion.

- TV ultrasound (CPT® 76830); 3-D Rendering (CPT® 76377) may be an add-on for investigation of a possible “Lost” IUD (inability to feel or see IUD string).
  - If TV ultrasound is negative or non-diagnostic, Pelvic ultrasound (CPT® 76856 or CPT® 76857):
    - If Pelvic ultrasound is negative or non-diagnostic, plain x-ray should be performed if pregnancy test is negative.
    - CT Pelvis without contrast (CPT® 72192) or CT Abdomen and Pelvis without contrast (CPT® 74176) or MRI Pelvis without contrast (CPT® 72195) can be considered when both ultrasound and plain x-ray are equivocal or non-diagnostic.

- If pregnancy test is positive: See OB-14.1: Locate an Intrauterine Device in the Obstetrical Ultrasound Imaging Guidelines
  - Ultrasound can be performed to locate an intrauterine device (IUD) (CPT® 76801 if a complete ultrasound has not yet been performed, CPT® 76815 or CPT® 76816 if a complete anatomic ultrasound was done previously, and/or CPT® 76817 for a transvaginal ultrasound).

PV-10.2: Tubal Occlusion Device

- TV ultrasound (CPT® 76830) and/or Pelvic ultrasound (CPT® 76856 or CPT® 76857) if:
  - Suspected complication of tubal occlusion device:
    - Abnormal tubal occlusion device position
    - Uterine perforation
    - Severe pain
    - Excessive bleeding
  - Ultrasound is not typically indicated for routine follow up after insertion of tubal occlusion device
References

**PV-11.1: Pelvic Pain/Dyspareunia, Female**

- Pelvic ultrasound (CPT® 76856 or CPT® 76857) and/or TV ultrasound (CPT® 76830) initial imaging for unexplained pelvic pain and/or dyspareunia:
  - Add Duplex Doppler (CPT® 93975 or CPT® 93976) if there is a suspicion of ovarian torsion on the initial ultrasound
  - Add Duplex Doppler (CPT® 93975 or CPT® 93976) for chronic pelvic pain (pelvic pain for 6 months or greater)
  - If urethral diverticulum is suspected – See **PV-13.2: Urethral Diverticula**
  - If endometriosis is suspected – See **PV-6.1: Endometriosis**

- If initial ultrasound is normal, consider urological work-up, gastroenterology work-up or laparoscopic evaluation(s) in evaluation of pelvic pain.

- If the initial ultrasound is equivocal for unexplained chronic pelvic pain, then the following can be considered:
  - CT Pelvis with contrast (CPT® 72193) for unexplained chronic pelvic pain.

- If the initial ultrasound is equivocal for unexplained chronic pelvic pain and if pelvic congestion is suspected:
  - MRI Pelvis without contrast or with and without contrast (CPT® 72195 or CPT® 72197) or MRV Pelvis (CPT® 72198), or CTV Pelvis (CPT® 72191) for pelvic congestion.
    - MRV Abdomen (CPT® 74185) or CTV Abdomen (CPT® 74175) if vascular intervention is planned.
      - CTV Abdomen and Pelvis (CPT® 74174) if CTV Pelvis has not been performed

- CTA Pelvis (CPT® 72191) if pelvic AVM is suspected, and if ONE of the following is present:
  - Pulsatile pelvic mass
  - Incidental finding on prior imaging including ultrasound

- Pelvic Pain/Hip Pain - Rule Out Piriformis Syndrome
  - See **PN-2: Focal Neuropathy** in the Peripheral Nerve Disorders Imaging Guidelines
  - See **MS-24: Hip** in the Musculoskeletal Imaging Guidelines.

- Work-up of interstitial cystitis/bladder pain syndrome (IC/BPS) should include history, physical exam, laboratory exam (urinalysis and urine culture), and measurement of post void residual urine by bladder catheterization (CPT® 51798)
  - Pelvic ultrasound (CPT® 76856 or CPT® 76857) and/or TV ultrasound (CPT® 76830).
    - CT Pelvis with contrast (CPT® 72193) may be indicated if ultrasound is equivocal for complicated interstitial cystitis/bladder pain syndrome (when ordered by Specialist)

- Proctalgia Syndromes
  - Prior to advanced imaging, the evaluation of rectal/perineal pain should include:
    - Digital rectal examination (assess for mass, fissures, hemorrhoids, etc.)
    - Pelvic examination in females to exclude PID
Recent flexible sigmoidoscopy or colonoscopy subsequent to the start of reported symptoms to exclude inflammatory conditions or malignancy

Endoanal ultrasound (CPT® 76822), MRI Pelvis with and without contrast (CPT® 72197), or CT Pelvis with contrast (CPT® 72193) are appropriate after the above studies have been performed or if laboratory or clinical information suggest infection, abscess, or inflammation

**Background and Supporting Information**

Interstitial Cystitis/Bladder Pain Syndrome (IC/BPS) has an unpleasant sensation (pain, pressure, discomfort), perceived to be related to the urinary bladder. It is associated with lower urinary tract symptoms of more than six weeks duration, in the absence of infection or other identifiable causes.

The proctalgia syndromes are characterized by recurrent episodes of rectal/perineal pain, and may be due to sustained contractions of the pelvic floor musculature.

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**PV-12.1: Leiomyomata**

- Pelvic ultrasound (CPT® 76856 or CPT® 76857) and/or TV ultrasound (CPT® 76830) can be performed for the following:
  - Suspected leiomyomata
  - Pre-operative prior to myomectomy
  - Persistent or recurrent symptoms such as abnormal bleeding, pain, or pelvic pressure
  - 3-D Rendering (CPT® 76377) may be an add-on if ultrasound is equivocal and intracavitary lesion is suspected, or if arterial embolization is being considered, or for surgical planning for myomectomy
  - If ultrasound is equivocal for intracavitary lesion, Duplex (Doppler) scan (CPT® 93975 complete; CPT® 93976 limited) may be an add-on to TV ultrasound (CPT® 76830).

- MRI Pelvis without and with contrast (CPT® 72197), or without contrast (CPT® 72195) can be used in the evaluation of leiomyomas for the following:
  - Guide the treatment of myomas in an enlarged uterus with multiple myomas and/or precise myoma mapping is of clinical importance (for complex surgical planning)
  - Equivocal sonohysterography or panoramic hysteroscopy with suspected submucous leiomyoma and imaging is needed for surgical planning
  - Ultrasound is equivocal for location, size, or for adenomyosis
  - Leiomyoma necrosis is suspected
  - Uterine fibroid embolization is being considered
    - If MRI is equivocal, MRA Pelvis (CPT® 72198) or CTA Pelvis (CPT® 72191) can be considered if requested by the interventional radiologist planning the arterial embolization
    - There is no evidence to support interval MRI after embolization unless persistent or recurrent symptoms

*Background and Supporting Information*

Leiomyomata are also known as “fibroids.”
**References**


### PV-13: Periurethral Cysts and Urethral Diverticula

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PV-13.1: Periurethral cysts, Skene duct cyst and Gartner’s duct cyst

- Initial evaluation includes any of the following:
  - Pelvic ultrasound (CPT® 76856 or CPT® 76857) and/or Transvaginal ultrasound (CPT® 76830)

PV-13.2: Urethral Diverticula

- Initial evaluation includes Pelvic ultrasound (CPT® 76856 or CPT® 76857) and/or Transvaginal ultrasound (CPT® 76830)

  - Urethrography, or CT Urethrography can be performed to evaluate any urethral abnormalities
  - MRI Pelvis without and with contrast (CPT® 72197) can be performed if ordered by operating surgeon if ultrasound is equivocal for urethral abnormalities

Background and Supporting Information
Symptomatic infection of congenital periurethral glands can result in urethral diverticula. Symptoms include pain, urinary urgency, frequency of urination, recurrent urinary tract infection, dribbling after urination, or incontinence.

References
### PV-14: Uterine Anomalies

#### PV-14.1: Uterine Anomalies

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PV-14.1: Uterine Anomalies

- Pelvic ultrasound (CPT® 76856 or CPT® 76857) and/or TV ultrasound (CPT® 76830) indicated for initial evaluation. 3-D Rendering (CPT® 76377) may be an add-on if uterine anomaly is suspected on ultrasound.
- Retroperitoneal ultrasound (CPT® 76770 or CPT® 76775) is indicated to evaluate for coexisting renal anomalies.
- MRI Pelvis without and with contrast (CPT® 72197):
  - Ultrasound defines a complex anomaly or is not definitive for a complex anomaly, or
  - Requested for surgical planning

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**PV-15.1: Fetal MRI***

- Fetal MRI (CPT® 74712; CPT® 74713 for each additional gestation) may be considered for assessment of fetal anatomic structures after 18 weeks gestation for surgical planning (re: fetal anomalies) and/or if ultrasound is equivocal and additional information is needed for counseling purposes.

*eviCore does not review Fetal MRI for Cigna.

**PV-15.2: Placenta Accreta/Placenta Accreta Spectrum/Placenta Percreta**

- If the ultrasound is inconclusive or equivocal, send to Medical Director Review. Medical Director can approve MRI Pelvis without contrast (CPT® 72195).
- If only placenta or maternal pelvis is imaged without fetal imaging, use MRI Pelvis (CPT® 72195).

**References**

PV-16.1: Molar Pregnancy and GTN

- Molar pregnancy – once diagnosed on an Obstetrical Ultrasound individuals should undergo chest x-ray pre- and post-evacuation
- Individuals with a molar pregnancy and rising hCG levels post evacuation and/or Gestational trophoblastic neoplasia should undergo the following for metastatic work-up.
  - CT Chest (CPT® 71260) and CT Abdomen and Pelvis (CPT® 74177) with contrast
  - MRI Brain without and with contrast (CPT® 70553) if pulmonary metastasis.

Background and Supporting Information

Gestational trophoblastic neoplasia (GTN) cells are malignant and can metastasize to other organs such as lungs, brain, bone, and vagina. Treatment is usually methotrexate with or without hysterectomy. Weekly hCG tests are performed until they fall to zero.

References

PV-17: Impotence/Erectile Dysfunction

PV-17.1: Impotence/Erectile Dysfunction
PV-17.1: Impotence/Erectile Dysfunction

- Imaging depends on the suspected disease:
  - Penile Doppler ultrasound (CPT® 93980) if erectile dysfunction suspected
  - CTA Pelvis with contrast (CPT® 72191) may be indicated if large vessel vascular insufficiency is suspected following ultrasound.
  - Duplex ultrasound (CPT® 93980) to assess penile vasculature in Peyronie’s disease
  - If male hypogonadism is suspected, See HD-19: Pituitary in the Head Imaging Guidelines

- Functional MRI or PET studies are considered investigational for this indication.

Reference

PV-18: Penis–Soft Tissue Mass

PV-18.1: Penis-Soft Tissue Mass
**PV-18.1: Penis-Soft Tissue Mass**

- Penile ultrasound (CPT® 76857) for initial evaluation soft-tissue lesions of the penis
- MRI Pelvis without and with contrast (CPT® 72197) can be performed:
  - Penile ultrasound (CPT® 76857) is equivocal (not clearly benign, simple cyst), or
  - Primary penile cancer is suspected.
- Peyronie Disease
  - Ultrasound (CPT® 76857) recommended,
  - MRI Pelvis without and with contrast (CPT® 72197) if ultrasound is equivocal and surgery or injection therapy is being contemplated

**References**

PV-19.1: Male Pelvic Disorders

Prostate Disorders

- Suspected Benign Prostatic Hypertrophy with obstructive voiding symptoms who have failed medication treatment can undergo:
  - Transrectal ultrasound (CPT® 76872) or Pelvis transabdominal ultrasound (bladder and prostate [CPT® 76856 or CPT® 76857]).
- Prostatitis with urinary retention or suspected abscess can undergo any of the following imaging studies:
  - Transrectal ultrasound (CPT® 76872) or Pelvis transabdominal ultrasound (bladder and prostate [CPT® 76856 or CPT® 76857]).
  - CT Pelvis with contrast (CPT® 72193) or MRI Pelvis without contrast (CPT® 72195) or with and without contrast (CPT® 72197) may be performed if ultrasound is equivocal for abscess or mass.

Hematospermia, transrectal ultrasound (TRUS) (CPT® 76872) can be the initial imaging study in all cases.

- MRI Pelvis without contrast (CPT® 72195) can be considered to evaluate:
  - Suspected hemorrhage within the seminal vesicles
  - Radiation injury, neoplasia
  - Failure of conservative treatment for 2 weeks
  - Abnormal findings on Transrectal ultrasound.

Scrotal ultrasound (CPT® 76870) and/or Duplex (Doppler) scan ultrasound (CPT® 93975 or CPT® 93976) of the scrotum for initial evaluation of scrotal pain or mass
- MRI Pelvis without and with contrast (CPT® 72197) or Tc-99m scrotal scintigraphy (CPT® 78761) if ultrasound is inconclusive. 2

Proctalga Syndromes

- Prior to advanced imaging, the evaluation of rectal/perineal pain should include:
  - Digital rectal examination (assess for mass, prostate, fissures, hemorrhoids, etc.)
  - Recent flexible sigmoidoscopy or colonoscopy subsequent to the start of reported symptoms to exclude inflammatory conditions or malignancy
- Endoanal ultrasound (CPT® 76872), MRI Pelvis without and with contrast (CPT® 72197), or CT Pelvis with contrast (CPT® 72193) are appropriate after the above studies have been performed or if laboratory or clinical information suggest infection, abscess, or inflammation

Work-up of interstitial cystitis/bladder pain syndrome (IC/BPS) should include history, physical exam, laboratory exam (urinalysis and urine culture), and measurement of post void residual urine by bladder catheterization (CPT® 51798)

- Pelvic ultrasound (CPT® 76856 or CPT® 76857).
- CT Pelvis with contrast (CPT® 72193) may be indicated if ultrasound is equivocal for complicated interstitial cystitis/bladder pain syndrome (when ordered by Specialist)
**Background and Supporting Information**

The proctalgia syndromes are characterized by recurrent episodes of rectal/perineal pain, and may be due to sustained contractions of the pelvic floor musculature.

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**PV-20.1: Scrotal Pathology**

- Scrotal ultrasound (CPT® 76870) and/or Duplex (Doppler) ultrasound (CPT® 93975 or CPT® 93976) of the scrotum initial evaluation for Scrotal pain or mass
  - MRI Pelvis without and with contrast (CPT® 72197) or Tc-99m scrotal scintigraphy (CPT® 78761) if ultrasound is inconclusive.¹,²

- Scrotal ultrasound (CPT® 76870), MRI Pelvis without and with contrast (CPT® 72197), or CT Pelvis with contrast (CPT® 72193) for cryptorchidism/undescended testis in the adult.

- Duplex (Doppler) ultrasound (CPT® 76870 and/or CPT® 93975 or CPT® 93976) of the scrotum with color flow mapping in supine and upright positions to assess venous reflux into plexus pampiniformis if varicocele suspected (for example, in inguinal hernia evaluation).
  - CT Abdomen and Pelvis with contrast (CPT® 74177) for right-sided varicocele, when there is suspicion for intra-abdominal pathology

**Background and Supporting Information**
The causes of scrotal pain may include torsion, epididymitis, strangulated hernia, segmental testicular infarction, trauma, testicular tumor, and idiopathic scrotal edema.¹

**PV-20.2: Para testicular and spermatic cord masses**

- Scrotal ultrasound (CPT® 76870) is the appropriate initial imaging procedure,
  - MRI Pelvis without and with contrast (CPT® 72197), exploration and biopsy are additional considerations if ultrasound is inconclusive.

**PV-20.3: Testicular Microlithiasis**

- Scrotal ultrasound (CPT® 76870) for initial evaluation

- Annual Scrotal ultrasound (CPT® 76870) follow-up until age 55, only if a risk factor is present which include:
  - Family history of germ cell tumor
  - Maldescent
  - Orchidopexy
  - Testicular atrophy

- For Personal history of germ cell tumor See **ONC-20: Testicular, Ovarian and Extragonadal Germ Cell Tumors** in the Oncology Imaging Guidelines

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1. See Pelvis Imaging Guidelines V1.0
2. See Pelvis Imaging Guidelines V1.0
References


## PV-21: Fistula in Ano and Perirectal Abscess

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PV-21.1: Fistula in Ano

- MRI Pelvis without and with contrast (CPT® 72197) is the preferred study.
  - If MRI cannot be performed, endoscopic ultrasound is superior, and thus preferential, to CT imaging.
  - CT Pelvis with contrast (CPT® 72193) is an inferior study to either of the above (accuracy of endoscopic ultrasound vs. CT for perianal fistula is 82% vs. 24%) and its use should be limited only to those circumstances in which MRI or endoscopic ultrasound cannot be performed.

PV-21.2: Perirectal Abscess

- MRI Pelvis without and with contrast (CPT® 72197) is the preferred study
  - CT Pelvis with contrast (CPT® 72193) can be approved as an alternative study if desired.

For the evaluation of Perianal and Perirectal Disease in Crohn’s Disease, See AB-23.3: Perirectal/Perianal Disease in the Abdomen Imaging Guidelines

References
PV-22: Urinary Incontinence/Pelvic Prolapse/Fecal Incontinence

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PV-22.1: Urinary Incontinence – Initial Imaging

- Initial Imaging, associated with other evaluations, are:
  - Non-Neurogenic Incontinence
    - Measurements of post void residual urine by Bladder ultrasound (CPT® 51798) OR Bladder catheterization.
    - In addition to post void residual volume determination, screening for UTI should be considered
    - Urodynamic studies for complex conditions or unclear case of incontinence after basic evaluation.
    - Preoperative multichannel urodynamic testing is not needed in women with stress incontinence (uncomplicated) prior to initial incontinence surgery
  - Neurogenic Incontinence
    - Ultrasound urinary tract (CPT® 76770 or CPT® 76775) and/or urodynamic studies.

**Background and Supporting Information**

Urinary incontinence can be “stress,” “urgency,” or mixed; neurogenic or non-neurogenic; and complicated or uncomplicated. Neurogenic incontinence can occur from cerebral, spinal or peripheral neurological diseases.

PV-22.2: Urinary Incontinence – Further Imaging

- CT Abdomen and/or Pelvis, contrast as requested, can be performed for the following:
  - Abnormality on ultrasound that requires further evaluation
  - Complicated incontinence
  - Suspected fistulae
  - Detecting ectopic ureters if ultrasound is nondiagnostic
  - Pre-operative planning for complicated incontinence when ordered by the operating physician
- MRI may be indicated for evaluation of the brain, spine, or other regions of the nervous system in neurogenic urinary incontinence.

**Background and Supporting Information**

Complicated urinary incontinence includes:
- Failed conservative treatment
- Pain or dysuria
- Hematuria
- Recurrent infection
- Previous radical pelvic surgery
- Suspected fistula
- Suspected mass
- Previous pelvic or prostate irradiation
PV-22.3: Pelvic Prolapse

- Transvaginal (TV) ultrasound (CPT® 76830) is the initial study of choice.
  - Pelvic ultrasound (CPT® 76856 or CPT® 76857) can be performed if requested as a complimentary study to the TV ultrasound.

- Urodynamic testing may be helpful if there is incontinence with a stage II or greater prolapse or voiding dysfunction

- MRI Pelvis (CPT® 72195 or CPT® 72197) may be indicated for the following:
  - Pelvic floor anatomy and pelvic organ prolapse evaluations if exam and TV ultrasound (CPT® 76830) and/or Pelvic ultrasound (CPT® 76856 or CPT® 76857) are equivocal; or
  - Pre-operative planning for complex organ prolapse when ordered by the operating physician; or
  - Persistent incontinence following surgery

- Mesh and Graft complications
  - Diagnostic evaluation for mesh and graft complications may include colonoscopy, cystoscopy, urodynamics, and radiologic imaging
  - All requests are sent to Medical Director Review

- Sacral osteomyelitis may be a complication of sacrocolpopexy. Back pain in women after this procedure should prompt evaluation with MRI Pelvis without and with contrast (CPT® 72197) and referral to a specialist

PV-22.4: Fecal Incontinence

The evaluation of fecal incontinence generally proceeds as follows:

- Determine the severity of the incontinence (Bristol Stool Scale, Fecal Incontinence Severity Index, etc.)

- History and Physical to include digital rectal examination and perianal pinprick (to assess for neurogenic causes)

- Trial of conservative management

- Diagnostic Testing if symptoms persist to include:
  - Ano-rectal Manometry
  - Balloon Expulsion Test
  - Endoanal ultrasound (CPT® 76872) to confirm sphincter defects in individuals with suspected sphincter injury (e.g. history of vaginal delivery or anorectal surgery)
  - MRI Pelvis (CPT® 72197) or MRI Defecography (CPT® 72195) if:
    - Ano-rectal manometry suggests weak sphincter pressures AND/OR there is an abnormal balloon expulsion test

      **AND**
      - There has been a failure of a recent trial of conservative management

      **AND**
      - Surgery is being considered
**Background and Supporting Information**

With regards to fecal incontinence ACG Guidelines note that “the internal sphincter is visualized more clearly by endoanal ultrasound, whereas MRI is superior for discriminating between an external anal sphincter tear and a scar and for identifying external sphincter atrophy.

However, guidelines adopted by the American Society of Colon and Rectal Surgeons note that “Endoanal ultrasound is a useful and sensitive tool in the evaluation of patients with FI (fecal incontinence), especially when there is a history of vaginal delivery or anorectal surgery. Ultrasound can reliably identify internal and external sphincter defects that may be associated with sphincter dysfunction.” In addition, the guidelines note “Other modalities (eg, MRI) have shown substantial interobserver variability and, at this point, are likely inferior to ultrasound imaging, but they may provide additional information where endoanal ultrasound is unavailable.”

**References**

**PV-23.1: Patent Urachus**

- Drainage from the umbilicus, redness around umbilicus, abdominal pain, or urinary tract infection from persistent fetal connection between the bladder and the umbilicus can be evaluated by:
  - Ultrasound (CPT® 76856 or CPT® 76857 and/or CPT® 76700 or CPT® 76705) or voiding cystourethrography (VCUG) (CPT® 74455) for suspected patent urachus
  - CT Pelvis with contrast (CPT® 72193) or MRI Pelvis without contrast (CPT® 72195) or with and without contrast (CPT® 72197) may be performed if the ultrasound is equivocal or if additional imaging is needed for surgical planning if suspected urachal carcinoma or other urachal abnormality,

**References**

PV-24: Bladder Mass

- Bladder masses, stones, and diverticuli can be found on ultrasound, CT or MRI incidentally. Symptoms may include hematuria, urgency, frequency, chronic urinary infection, obstruction or urinary retention. Bladder masses can be evaluated by:
  - CT Pelvis without contrast (CPT® 72192) for suspected bladder stone KUB, if translucent and surgery is planned
  - CT Pelvis with and without contrast (CPT® 72194) if suspected bladder diverticuli,
  - CT Urogram (CPT® 74178) for suspected carcinoma
  - MRI Pelvis with and without contrast (CPT® 72197) may be indicated for uncommon cell lines such as rhabdomyosarcoma, and leiomyosarcoma

References
PV-25: This section intentionally left blank