



**Cohere Medicare Advantage Policy –  
Magnetic Resonance Imaging (MRI), Pelvis**  
*Clinical Guidelines for Medical Necessity Review*

**Version:** 1  
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## Guideline Information:

**Specialty Area:** Diagnostic Imaging

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# Medical Necessity Criteria

**Service: Magnetic Resonance Imaging (MRI), Pelvis**

## **Benefit Category**

Diagnostic Services in Outpatient Hospital  
Diagnostic Tests (other)

Please Note: This may not be an exhaustive list of all applicable Medicare benefit categories for this item or service.<sup>1</sup>

## **Related CMS Documents**

Please refer to [CMS Medicare Coverage Database](#) for the most current applicable CMS National Coverage.<sup>1-3</sup>

- [National Coverage Determination \(NCD\). Magnetic resonance imaging \(MRI\) \(220.2\)](#)
- [Local Coverage Determination \(LCD\) Multiple Imaging in Oncology \(L35391\)](#)
- [Billing and Coding: Multiple Imaging in Oncology \(A56848\)](#)

## **Recommended Clinical Approach**

The use of contrast and the type of magnetic resonance (MR) contrast (e.g., extracellular or hepatobiliary-specific) should be at the request of the ordering provider with guidance from the radiologist. The MR field of view should be limited to the area of interest and, in some cases, may not be the preferred imaging study.

## **Evaluation of Clinical Harms and Benefits**

Cohere Health uses the criteria below to ensure consistency in reviewing the conditions to be met for coverage of magnetic resonance imaging (MRI) of the pelvis. This process helps to prevent both incorrect denials and inappropriate approvals of medically necessary services. Specifically, limiting incorrect approvals reduces the risks associated with unnecessary

procedures, such as complications from surgery, infections, and prolonged recovery times.

The potential clinical harms of using these criteria may include:

- There is a risk of malfunction of implanted medical devices (e.g., implanted pacemakers, cochlear implants).
- A potential exists for allergic reactions to contrast material, if used in the study. The MRI department staff will monitor the patient for an allergic reaction and treat as recommended by a physician.<sup>4-6</sup>
- Use of gadolinium-based contrast is not recommended during pregnancy or in patients with acute or chronic kidney injury or disease.<sup>4-6</sup>
- If sedation is used for the study (for anxiety or claustrophobia), there is a risk of over-sedation. The patient will be monitored during the procedure to reduce this risk.
- There is uncertain risk for magnetic resonance imaging (MRI) in pregnant patients. The decision to image in a pregnant patient should be made on an individual basis in consultation with the patient's obstetric provider.<sup>7</sup>
- There is a risk of increased healthcare costs and complications from the inappropriate use of additional interventions.<sup>8</sup>

The clinical benefits of using these criteria include:

- MRI demonstrates superior sensitivity and diagnostic accuracy in identifying acute pelvic fractures when compared to computed tomography (CT). MRI is also effective in detecting occult pelvic fractures and soft tissue anomalies.<sup>9</sup>
- MRI demonstrates high sensitivity and specificity in detecting various types of pelvic endometriosis. MRI allows the localization of lesions with highly fibrotic components that may not be recognizable with other imaging methods or visible during video laparoscopy.<sup>10</sup>
- Quantitative diffusion MRI of the abdomen and pelvis allows the ability to gauge tissue microstructure sensitivity. In contrast to qualitative diffusion-weighted MRI, the quantitative approach enhances the standardization of tissue characterization, which is crucial for disease detection, staging, and treatment monitoring.<sup>11</sup>
- Enhanced overall patient satisfaction and healthcare experience.

This policy includes provisions for expedited reviews and flexibility in urgent cases to mitigate risks of delayed access. Evidence-based criteria are employed to prevent inappropriate denials, ensuring that patients receive medically necessary care. The criteria aim to balance the need for effective treatment with the minimization of potential harms, providing numerous clinical benefits in helping avoid unnecessary complications from inappropriate care.

In addition, the use of these criteria is likely to decrease inappropriate denials by creating a consistent set of review criteria, thereby supporting optimal patient outcomes and efficient healthcare utilization.

## **Medical Necessity Criteria**

### **Indications**

→ **Magnetic resonance imaging (MRI), pelvis** is considered appropriate if **ANY** of the following are **TRUE**<sup>12-13</sup>:

- ◆ For evaluation of the prostate with **ANY** of the following:
  - Prostatitis when symptoms worsen despite treatment<sup>14-16</sup>;  
**OR**
  - For detection and surveillance of prostate cancer and **ANY** of the following:
    - Initial imaging including **ANY** of the following:
      - ◆ Biopsy is planned, and digital rectal examination (DRE) has been performed; **OR**
      - ◆ Suspicious nodule on DRE, with or without prior biopsy; **OR**
      - ◆ The patient meets intermediate or high-risk criteria, including **ANY** of the following:
        - Clinical stage T2b or higher–T2c<sup>37</sup>; **OR**
        - Prostate specific antigen (PSA) greater than 10 mg/mL; **OR**
        - Gleason score greater than or equal to 7 on prior biopsy; **OR**
        - Indeterminate, intermediate-risk lesion(s) (PIRADS-3) characterized on prior MRI with prostate cancer, surveillance (up to annual)<sup>17</sup>; **OR**

- Indeterminate, low-risk lesion(s) (PIRADS-1 or PIRADS-2)
- Known prostate cancer, low-risk, annual active surveillance as defined by **ANY** of the following:
  - ◆ PSA less than 10 mg/mL **OR**
  - ◆ Low clinical tumor grade (cT1-cT2a); **OR**
  - ◆ Grade Group 1 (Gleason score less than or equal to 6)<sup>17</sup>; **OR**
- Prostate cancer, post-treatment follow-up for **ANY** of the following indications:
  - ◆ Detectable and rising PSA; **OR**
  - ◆ Prior radical prostatectomy (surgical removal of the whole of the prostate) with detectable PSA; **OR**
- Prostate cancer, metastatic with concern for progression; **OR**
- ◆ For the evaluation of the uterus, ovaries, or cervix, including **ALL** of the following:
  - Ultrasound has been performed; **AND**
  - **ANY** of the following:
    - Intrauterine pregnancy with the presence of **ANY** of the following on pelvic ultrasound:
      - ◆ Fetal anomalies<sup>18</sup>; **OR**
      - ◆ Placental attachment disorders (e.g., placenta accreta, placenta increta)<sup>19</sup>; **OR**
    - Follow-up to initial imaging study for further evaluation to characterize a uterine abnormality or lesion if pelvic ultrasound results are inconclusive<sup>13,21</sup>; **OR**
    - Further evaluation of dysfunctional uterine bleeding when ultrasound was indeterminate; **OR**
    - Known or suspected malignancies, including **ANY** of the following:
      - ◆ Uterine, ovarian, or cervical cancer, including borderline tumors such as Brenner tumor and moles (gestational trophoblastic tumors); **OR**
      - ◆ Endometrial cancer, biopsy-proven, staging, and follow-up; **OR**

- ◆ Pelvic abnormalities as indicated by **ALL** of the following<sup>4,15</sup>:
  - **ANY** of the following is **TRUE**:
    - Ultrasound has been performed and is indeterminate; **OR**
    - Ultrasound has been performed, and the patient requires further evaluation or surgical planning; **AND**
  - **ANY** of the following:
    - Abscess of the pelvis<sup>23,24</sup>; **OR**
    - Endometriosis with involvement beyond the ovary<sup>21</sup>; **OR**
    - Pelvic organ prolapse<sup>25</sup>; **OR**
    - Uterine leiomyoma (fibroid) when an intervention is planned<sup>26</sup>; **OR**
    - Urethral stricture or mass; **OR**
    - Pelvic neoplasms; **OR**
    - Uterine or cervical abnormalities; **OR**
- ◆ Musculoskeletal imaging of the pelvis when plain radiograph is inconclusive, including **ANY** of the following:
  - Sacroiliac joint, including inflammatory arthropathies such as psoriatic arthritis or ankylosing spondylitis<sup>27</sup>; **OR**
  - Lumbosacral plexopathy<sup>28</sup>; **OR**
  - Potential bony infection (osteomyelitis)<sup>29</sup>; **OR**
  - Septic arthritis<sup>29</sup>; **OR**
  - Characterization, staging, or follow-up of a bony lesion for suspected or known malignancy or metastatic disease<sup>30</sup>; **OR**
  - Ulcer or wound with clinical concern for soft tissue infection or osteomyelitis<sup>29</sup>; **OR**
  - Persistent athletic pubalgia (sports hernia) or osteitis pubis after 3 months of conservative treatment<sup>30</sup>; **OR**
  - Trauma-related conditions including suspected traumatic or stress fracture with indeterminate CT<sup>31-33</sup>; **OR**
  - Avascular necrosis (AVN) or osteonecrosis; **OR**
- ◆ Other evaluation of the pelvis when ultrasound is not appropriate or non-diagnostic, computed tomography (CT) is contraindicated or inconclusive, and **ANY** of the following is **TRUE**:
  - Extension of an indicated abdominal MRI for complete evaluation of organs and structures such as ureters or

bowel (e.g., MR enterography, MR urography) or for neoplastic staging; **OR**

- Pouchitis<sup>14</sup>; **OR**
- Fistula; **OR**
- Lymphadenopathy; **OR**
- Neoplastic conditions for **ANY** of the following:
  - Initial staging; **OR**
  - Treatment planning; **OR**
  - Response assessment; **OR**
  - Surveillance, and **ANY** of the following is **TRUE**<sup>2-3,34-36</sup>:
    - ◆ The patient is assumed to have either no known disease or disease that is stable or clinically insignificant (every 6-12 months for an overall duration [e.g., 5 years]); **OR**
    - ◆ Suspected recurrence/progression; **OR**
    - ◆ Evaluation of response to treatment when a change in therapy is contemplated (no more often than after 2 cycles of chemotherapy and/or 6-8 weeks since the prior imaging evaluation); **OR**
- Follow-up to initial imaging study for further evaluation to characterize an abnormality/lesion related to an infection; **OR**
- For evaluation of **ANY** of the following miscellaneous pathologies when prior testing has failed:
  - Further work-up or characterization of initial abnormal findings on physical or clinical exam including **ANY** of the following:
    - ◆ Lumbosacral plexopathy<sup>28</sup>; **OR**
    - ◆ Potential bony infection (osteomyelitis)<sup>29</sup>; **OR**
    - ◆ Septic arthritis<sup>29</sup>; **OR**
    - ◆ Ulcer or wound with clinical concern for infection<sup>29</sup>; **OR**
  - Peri-anal fissures; **OR**
  - Pre-treatment for treatment planning, including staging (e.g., interventional radiology procedures, before biopsy, radiation, surgery); **OR**
- Follow-up to initial imaging study for further evaluation to

characterize an abnormality/lesion related to congenital anomalies; **OR**

- ◆ Repeat imaging (defined as repeat request following recent imaging of the same anatomic region with the same modality) in the absence of established guidelines, will be considered reasonable and necessary if **ANY** of the following are true:
  - New or worsening symptoms, such that repeat imaging would influence treatment; **OR**
  - One-time clarifying follow-up of a prior indeterminate finding; **OR**
  - In the absence of change in symptoms, there is an established need for monitoring which would influence management.

### Non-Indications

→ **Magnetic resonance imaging (MRI), pelvis** may not be considered appropriate if **ANY** of the following is **TRUE**:

- ◆ If contrast is used, history of anaphylactic allergic reaction to gadolinium contrast media with detailed guidelines for use in patients with renal insufficiency; **OR**
- ◆ The patient has metallic clips on vascular aneurysms; **OR**
- ◆ Incompatible implantable devices (e.g., pacemakers, defibrillators, cardiac valves); **OR**
- ◆ Metallic foreign body in orbits/other critical area(s) or within the field of view and obscuring area of concern.

\*NOTE: MRI in patients with claustrophobia should be requested at the discretion of the ordering provider.

\*\*NOTE: MRI in pregnant patients should be requested at the discretion of the ordering provider and obstetric care provider.

### Level of Care Criteria

Inpatient or Outpatient

### Procedure Codes (CPT/HCPCS)

CPT/HCPCS Code	Code Description
72195	Magnetic resonance imaging (MRI) (e.g., proton), pelvis; without contrast material(s)
72196	Magnetic resonance imaging (MRI) (e.g., proton), pelvis;

	with contrast material(s)
72197	Magnetic resonance imaging (MRI) (e.g., proton), pelvis; without contrast material(s) followed by contrast material(s) and further sections

**Disclaimer:** G, S, I, and N Codes are non-covered per CMS guidelines due to their experimental or investigational nature.

## Medical Evidence

Almansouri et al. (2024) performed a systematic review to analyze the role of magnetic resonance imaging (MRI) and computed tomography (CT) for pelvic fractures. Twelve studies were analyzed involving 1,798 patients (52% female). Two of the studies were prospective, and the remaining ten were retrospective. Diagnosing and managing pelvic fractures necessitates a personalized approach considering patient characteristics, injury mechanisms, and hemodynamic status. The authors note that MRI demonstrates superior sensitivity and diagnostic accuracy in identifying acute pelvic fractures, mainly concealed sacral fractures. MRI is also effective in detecting occult pelvic fractures and soft tissue anomalies. However, despite its diagnostic benefits, MRI is unlikely to replace CT as the initial gold standard due to factors such as shorter emergency department time and contraindications for MRI, especially in elderly patients. CT scanning remains preferred for initial diagnosis, aiding in the determination of emergent angiographic embolization needs and facilitating surgical planning in cases of pelvic fractures.<sup>9</sup>

Manti et al. (2022) conducted a prospective study that included 72 patients with symptoms indicative of endometriosis who underwent evaluation to plan surgical treatment. The mean age of the patients was 35.5 years (range: 20-46 years). Pelvic endometriosis was pathologically confirmed in 56 (77.7%) of the 72 patients. Among them, 22 patients (39.3%) underwent video laparoscopy (VLS), and 16 (72.2%) of those underwent surgery. MRI demonstrated high sensitivity and specificity for detecting various types of pelvic endometriosis. MRI allows the localization of lesions with highly fibrotic components that may not be recognizable with other imaging methods or visible during video laparoscopy.<sup>10</sup>

Hernando et al. (2022) reviewed quantitative diffusion MRI of the abdomen and pelvis, which involves employing multiple diffusion encodings and mapping diffusion parameters. Diffusion MRI allows the ability to gauge tissue microstructure sensitivity. In contrast to qualitative diffusion-weighted MRI, the quantitative approach enhances the standardization of tissue characterization, which is crucial for disease detection, staging, and treatment monitoring. Challenges include acquisition artifacts, limitations in signal modeling, and biological variability. Technical performance concerns include addressing physiologic motion (respiratory, peristaltic, and pulsatile), handling image distortions, and managing a low signal-to-noise ratio. Currently, multi-center studies focus on validation through systematic assessments to assess reproducibility.<sup>11</sup>

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# Clinical Guideline Revision History/Information

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