

The Weill Cornell Hip Pain Appropriate Use Criteria (AUC) addresses twenty-two clinical conditions common to patients presenting with Hip Pain and makes recommendations to optimize diagnostic effectiveness.

	Common Clinical Conditions – Hip Pain
0	Not Hip Pain
1	Acetabular Labral Tear Known or Suspected
2	Arthroplasty Loosening Known or Suspected - Status Post
3	Avascular Necrosis Known or Suspected - Hip
4	Cancer Known or Suspected - Hip
5	Hematoma - Hip
6	Hernia Known or Suspected
7	Heterotopic Bone Known or Suspected - Hip
8	Hip Pain without Trauma
9	Iliopsoas Subluxation
10	Impingement - Hip
11	Infection Known or Suspected - Hip
12	Inflammatory Arthritis Known or Suspected - Hip
13	Lateral Femoral Cutaneous Nerve Compression
14	Mass Known or Suspected - Hip
15	Muscle Tendon Disorder
16	Osteoarthritis Known or Suspected - Hip
17	Piriformis Syndrome - Sciatic Nerve Irritation
18	Post-Fracture Healing Assessment - Hip
19	Preoperative Planning or Known Hip Fracture
20	Soft Tissue Injury - Hip
21	Tendon Injury Repair Hip - Status Post
22	Traumatic Hip Pain - Known or Suspected Fracture

The Hip Pain AUC is activated when a user orders one of the following fourteen Advanced Imaging Procedures.

	Advanced Imaging Procedures
1	CT Arthrogram Hip
2	CT Hip without Contrast
3	CT Hip with Contrast
4	CT Hip with and without contrast
5	MR Arthrogram Hip
6	MR Hip without Contrast
7	MR Hip with Contrast
8	MR Hip with and without Contrast
9	CT Pelvis without Contrast
10	CT Pelvis with Contrast
11	CT Pelvis with and without Contrast
12	MR Pelvis without Contrast
13	MR Pelvis with Contrast
14	MR Pelvis with and without Contrast



The Hip Pain AUC recommends one of the following twelve Imaging Procedures based on the clinical condition.

	Recommended Imaging Procedures
1	CT Arthrogram Hip
2	CT Hip without Contrast
3	CT Hip with Contrast
4	CT Hip with and without contrast
5	MR Arthrogram Hip
6	MR Hip without Contrast
7	MR Hip with Contrast
8	MR Hip with and without Contrast
9	MR Lumbar Plexus without Contrast
10	NM Bone Scan
11	XR Hip
12	US Hip

Logic Tables

The following Clinical Condition Logic Tables provide the Hip Pain AUC logic for each clinical condition.

The logic includes priors, contraindications, metal reduction and advanced US techniques where applicable.

Key

Value	Score
Blank	No Score Assigned
0	AUC Not Applicable
1	Inappropriate
2	Contact Radiology
3	Appropriate
4	Appropriate Preferred

Condition 0 - Not Hip Pain AUC Logic Activated, AUC Not Applicable

Condition	CT Arth	CT w	CT wo	CT wwo	MR w	MR wo	MR wwo	MR Arth	MR L-plex	NM Bone Scan	XR Hip	US Hip	CT Pelvis w	CT Pelvis wo	CT Pelvis wwo	MR Pelvis w	MR Pelvis wo	MR Pelvis wwo	Reference
Not Hip Pain	0	0	0	0	0	0	0	0					0	0	0	0	0	0	1



Condition 1 - Acetabular Labral Tear Known or Suspected

Condition	Contraindications	CT Hip Arth	CT Hip w	CT Hip wo	CT Hip wwo	MR Hip w	MR Hip wo	MR Hip wwo	MR Arth Hip	MR L-plex	NM Bone Scan	XR Hip	US Hip	CT Pelvis w	CT Pelvis wo	CT Pelvis wwo	MR Pelvis w	MR Pelvis wo	MR Pelvis wwo	References
Acetabular Labral Tear		1	1	1	1	1	4	1	4					1	1	1	1	1	1	
Acetabular Labral Tear	GAD	1	1	1	1	1	4	1	1					1	1	1	1	1	1	1,4,5,7, LBP
Acetabular Labral Tear	MR	2	2	2	2	2	2	2	2					2	2	2	2	2	2	

Condition 2 - Arthroplasty Loosening Known or Suspected - Status Post

Condition	Priors Metal Reduction?	Contraindications	CT Arth Hip	CT Hip w	CT Hip wo	CT Hip wwo	MR Hip w	MR Hip wo	MR Hip wwo	MR Arth Hip	MR L-plex	NM Bone Scan	XR Hip	US Hip	CT Pelvis w	CT Pelvis wo	CT Pelvis wwo	MR Pelvis w	MR Pelvis wo	MR Pelvis wwo	References
Arthroplasty	No XR		1	1	1	1	1	1	1	1			4		1	1	1	1	1	1	
Loosening																					
Arthroplasty	XR, Yes		1	1	4	1	1	4	1	1					1	1	1	1	1	1	
Loosening																					ВР
Arthroplasty	XR, Yes	СТ	1	1	1	1	1	4	1	1					1	1	1	1	1	1	
Loosening																					10,
Arthroplasty	XR, No	MR	1	1	4	1	1	1	1	1					1	1	1	1	1	1	6
Loosening									,												
Arthroplasty	XR, No	CT	2	2	2	2	2	2	2	2					2	2	2	2	2	2	
Loosening		MR																			



Condition 3 – Avascular Necrosis Known or Suspected

Condition	Priors	Contraindications	CT Arth Hip	CT Hip w	CT Hip wo	CT Hip wwo	MR Hip w	MR Hip wo	MR Hip wwo	MR Arth Hip	MR L-plex	NM Bone Scan	XR Hip	US Hip	CT Pelvis w	CT Pelvis wo	CT Pelvis wwo	MR Pelvis w	MR Pelvis wo	MR Pelvis wwo	References
Avascular Necrosis	No XR		1	1	1	1	1	1	1	1			4		1	1	1	1	1	1	1, 11
Avascular Necrosis	XR		1	1	1	1	1	4	1	1					1	1	1	1	1	1	1
Avascular Necrosis	XR	MR	2	2	2	2	2	2	2	2					2	2	2	2	2	2	11

Condition 4 – Cancer Known or Suspected

Condition	Priors	Contraindications	CT Arth Hip	CT Hip w	CT Hip wo	CT Hip wwo	MR Hip w	MR Hip wo	MR wwo	MR Arth	MR L-plex	NM Bone Scan	XR Hip	US Hip	CT Pelvis w	CT Pelvis wo	CT Pelvis wwo	MR Pelvis w	MR Pelvis wo	MR Pelvis wwo	References
Cancer	No XR		1	1	1	1	1	1	1	1			4		1	1	1	1	1	1	1
Cancer	XR		1	1	3	1	1	3	4	1		3			1	1	1	1	1	1	
Cancer	XR	GAD	1	3	3	1	1	4	1	1		3			1	1	1	1	1	1	
Cancer	XR	IOD	1	1	3	1	1	3	4	1		3			1	1	1	1	1	1	
Cancer	XR	MR	1	3	3	1	1	1	1	1		3			1	1	1	1	1	1	
Cancer	XR	СТ	1	1	1	1	1	3	4	1		3			1	1	1	1	1	1	LBP
Cancer	XR	GAD IOD	1	1	3	1	1	4	1	1		3			1	1	1	1	1	1	2 ,3, LE
Cancer	XR	GAD CT	1	1	1	1	1	4	1	1		3			1	1	1	1	1	1	1, 3
Cancer	XR	MR IOD	1	1	4	1	1	1	1	1		3			1	1	1	1	1	1	
Cancer	XR	MR CT	2	2	2	2	2	2	2	2					2	2	2	2	2	2	



Condition 5 – Hematoma Known or Suspected

Condition	Contraindications	CT Arth Hip	CT Hip w	CT Hip wo	CT Hip wwo	MR Hip w	MR Hip wo	MR wwo	MR Arth	MR L-plex	NM Bone Scan	XR Hip	US Hip	CT Pelvis w	CT Pelvis wo	CT Pelvis wwo	MR Pelvis w	MR Pelvis wo	MR Pelvis wwo	References
Hematoma		1	1	4	1	1	4	1	1				4	1	1	1	1	1	1	
Hematoma	MR	1	1	4	1	1	1	1	1				4	1	1	1	1	1	1	•
Hematoma	СТ	1	1	1	1	1	4	1	1				4	1	1	1	1	1	1	LBP
Hematoma	MR	1	1	1	1	1	1	1	1				4	1	1	1	1	1	1	
	CT				, 															

Condition 6 – Hernia Known or Suspected

Condition	US Expertise?	Contraindications	CT Arth Hip	CT Hip w	CT Hip wo	CT Hip wwo	MR Hip w	MR Hip wo	MR wwo	MR Arth	MR L-plex	NM Bone Scan	XR Hip	US Hip	CT Pelvis w	CT Pelvis wo	CT Pelvis wwo	MR Pelvis w	MR Pelvis wo	MR Pelvis wwo	References
Hernia	Yes		1	1	1	1	1	4	1	1				3	1	1	1	1	1	1	~
Hernia	No		1	1	1	1	1	4	1	1					1	1	1	1	1	1	8, 7,
Hernia	Yes	MR	1	1	1	1	1	1	1	1				4	1	1	1	1	1	1	., 6
Hernia	No	MR	2	2	2	2	2	2	2	2					2	2	2	2	2	2	1

Condition 7 – Heterotopic Bone Known or Suspected

Condition	Contraindications	CT Arth Hip	CT Hip w	CT Hip wo	CT Hip wwo	MR Hip w	MR Hip wo	MR wwo	MR Arth	MR L-plex	NM Bone Scan	XR Hip	US Hip	CT Pelvis w	CT Pelvis wo	CT Pelvis wwo	MR Pelvis w	MR Pelvis wo	MR Pelvis wwo	References
Heterotopic Bone		1	1	4	1	1	4	1	1					1	1	1	1	1	1	
Heterotopic Bone	MR	1	1	4	1	1	1	1	1					1	1	1	1	1	1	2
Heterotopic Bone	СТ	1	1	1	1	1	4	1	1					1	1	1	1	1	1	15
Heterotopic Bone	MR CT	2	2	2	2	2	2	2	2					2	2	2	2	2	2	



Condition 8 – Hip Pain without Trauma

Base condition	Priors	Contraindications	CT Arth Hip	CT Hip w	CT Hip wo	CT Hip wwo	MR Hip w	MR Hip wo	MR Hip wwo	MR Arth Hip	MR L-plex	NM Bone Scan	XR Hip	US Hip	CT Pelvis w	CT Pelvis wo	CT Pelvis wwo	MR Pelvis w	MR Pelvis wo	MR Pelvis wwo	References
Hip Pain wo Trauma	No XR		1	1	1	1	1	1	1	1			4		1	1	1	1	1	1	1, 11
Hip Pain wo Trauma	XR		1	1	1	1	1	4	1	1					1	1	1	1	1	1	1
Hip Pain wo Trauma	XR	MR	2	2	2	2	2	2	2	2					2	2	2	2	2	2	1

Condition 9 – Iliopsoas Subluxation

Condition	US Expertise?	Contraindications	CT Arth Hip	CT Hip w	CT Hip wo	CT Hip wwo	MR Hip w	MR Hip wo	MR wwo	MR Arth	MR L-plex	NM Bone Scan	XR Hip	US Hip	CT Pelvis w	CT Pelvis wo	CT Pelvis wwo	MR Pelvis w	MR Pelvis wo	MR Pelvis wwo	References
Iliopsoas Subluxation	Yes		1	1	1	1	1	4	1	1				3	1	1	1	1	1	1	
Iliopsoas Subluxation	No		1	1	1	1	1	4	1	1					1	1	1	1	1	1	7, 8
Iliopsoas Subluxation	Yes	MR	1	1	1	1	1	1	1	1				4	1	1	1	1	1	1	1, 6,
Iliopsoas Subluxation	No	MR	2	2	2	2	2	2	2	2					2	2	2	2	2	2	



Condition 10 – Impingement

Condition	Priors	Contraindications	CT Arth Hip	CT Hip w	CT Hip wo	CT Hip wwo	MR Hip w	MR Hip wo	MR wwo	MR Arth	MR L-plex	NM Bone Scan	XR Hip	US Hip	CT Pelvis w	CT Pelvis wo	CT Pelvis wwo	MR Pelvis w	MR Pelvis wo	MR Pelvis wwo	References
Impingement	No XR		1	1	1	1	1	1	1	1			4		1	1	1	1	1	1	1
Impingement	XR		1	1	3	1	1	4	1	4					1	1	1	1	1	1	1, 17 ,1 8, 19
Impingement	XR	MR	4	1	4	1	1	1	1	1					1	1	1	1	1	1	1, 18, 19
Impingement	XR	СТ	1	1	1	1	1	4	1	4					1	1	1	1	1	1	1, 17, 18, 19
Impingement	XR	MR, CT	2	2	2	2	2	2	2	2					2	2	2	2	2	2	LBP



Condition 11 – Infection Known or Suspected

Condition	Prior Studies	Contraindications	CT Arth Hip	CT Hip w	CT Hip wo	CT Hip wwo	MR Hip w	MR Hip wo	MR wwo	MR Arth	MR L-plex	NM Bone Scan	XR Hip	US Hip	CT Pelvis w	CT Pelvis wo	CT Pelvis wwo	MR Pelvis w	MR Pelvis wo	MR Pelvis wwo	References
Infection	No XR		1	1	1	1	1	1	1	1			4		1	1	1	1	1	1	Н
Infection	XR		1	1	3	1	1	3	4	1		3			1	1	1	1	1	1	
Infection	XR	GAD	1	3	3	1	1	4	1	1		3			1	1	1	1	1	1	
Infection	XR	IOD	1	1	3	1	1	3	4	1		3			1	1	1	1	1	1	
Infection	XR	MR	1	3	3	1	1	1	1	1		3			1	1	1	1	1	1	
Infection	XR	СТ	1	1	1	1	1	3	4	1		3			1	1	1	1	1	1	LBP
Infection	XR	GAD IOD	1	1	3	1	1	4	1	1		3			1	1	1	1	1	1	2, 3, L
Infection	XR	GAD CT	1	1	1	1	1	4	1	1		3			1	1	1	1	1	1	1,
Infection	XR	MR IOD	1	1	4	1	1	1	1	1		3			1	1	1	1	1	1	
Infection	XR	MR CT	2	2	2	2	2	2	2	2					2	2	2	2	2	2	

Condition 12 – Inflammatory Arthritis Known or Suspected

Condition	Priors	Contraindications	CT Arth Hip	CT Hip w	CT Hip wo	CT Hip wwo	MR Hip w	MR Hip wo	MR wwo	MR Arth	MR L-plex	NM Bone Scan	XR Hip	US Hip	CT Pelvis w	CT Pelvis wo	CT Pelvis wwo	MR Pelvis w	MR Pelvis wo	MR Pelvis wwo	References
Inflammatory Arthritis	No XR		1	1	1	1	1	1	1	1			4		1	1	1	1	1	1	14
Inflammatory Arthritis	XR		1	1	1	1	1	4	3	1					1	1	1	1	1	1	
Inflammatory arthritis	XR	GAD	1	1	1	1	1	4	1	1					1	1	1	1	1	1	14, LBP
Inflammatory arthritis	XR	MR	2	2	2	2	2	2	2	2					2	2	2	2	2	2	\Box



Condition 13 – Lateral Femoral Cutaneous Nerve Compression

Condition	Contraindications	CT Arth Hip	CT Hip w	CT Hip wo	CT Hip wwo	MR Hip w	MR Hip wo	MR wwo	MR Arth	MR L-plex	NM Bone Scan	XR Hip	US Hip	CT Pelvis w	CT Pelvis wo	CT Pelvis wwo	MR Pelvis w	MR Pelvis wo	MR Pelvis wwo	References
Lateral Femoral Cutaneous		1	1	1	1	1	1	1	1	4				1	1	1	1	1	1	12
Lateral Femoral Cutaneous	MR	2	2	2	2	2	2	2	2					2	2	2	2	2	2	LBP

Condition 14 - Mass Known or Suspected

Condition	Priors	Contraindications	CT Arth Hip	CT Hip w	CT Hip wo	CT Hip wwo	MR Hip w	MR Hip wo	MR wwo	MR Arth	MR L-plex	NM Bone Scan	XR Hip	US Hip	CT Pelvis w	CT Pelvis wo	CT Pelvis wwo	MR Pelvis w	MR Pelvis wo	MR Pelvis wwo	References
Mass	No XR		1	1	1	1	1	1	1	1			4		1	1	1	1	1	1	1
Mass	XR		1	1	3	1	1	3	4	1		3			1	1	1	1	1	1	
Mass	XR	GAD	1	3	3	1	1	4	1	1		3			1	1	1	1	1	1	
Mass	XR	IOD	1	1	3	1	1	3	4	1		3			1	1	1	1	1	1	
Mass	XR	MR	1	3	3	1	1	1	1	1		3			1	1	1	1	1	1	
Mass	XR	СТ	1	1	1	1	1	3	4	1		3			1	1	1	1	1	1	LBP
Mass	XR	GAD IOD	1	1	3	1	1	4	1	1		3			1	1	1	1	1	1	2, 3,
Mass	XR	GAD CT	1	1	1	1	1	4	1	1		3			1	1	1	1	1	1	1,
Mass	XR	MR IOD	1	1	4	1	1	1	1	1		3			1	1	1	1	1	1	
Mass	XR	MR CT	2	2	2	2	2	2	2	2					2	2	2	2	2	2	



Condition 15 - Muscle Tendon Disorder

Condition	US Expertise?	Contraindications	CT Arth Hip	CT Hip w	CT Hip wo	CT Hip wwo	MR Hip w	MR Hip wo	MR wwo	MR Arth	MR L-plex	NM Bone Scan	XR Hip	US Hip	CT Pelvis w	CT Pelvis wo	CT Pelvis wwo	MR Pelvis w	MR Pelvis wo	MR Pelvis wwo	References
Muscle Tendon Disorder	Yes		1	1	1	1	1	4	1	1				w	1	1	1	1	1	1	
Muscle Tendon Disorder	No		1	1	1	1	1	4	1	1					1	1	1	1	1	1	7,8
Muscle Tendon Disorder	Yes	MR	1	1	1	1	1	1	1	1				4	1	1	1	1	1	1	1, 6,
Muscle Tendon Disorder	No	MR	2	2	2	2	2	2	2	2					2	2	2	2	2	2	



Condition 16 - Osteoarthritis Known or Suspected - Hip

	1	ı																			
Condition	Priors	Contraindications	CT Arth Hip	CT Hip w	CT Hip wo	CT Hip wwo	MR Hip w	MR Hip wo	MR wwo	MR Arth	MR L-plex	NM Bone Scan	XR Hip	US Hip	CT Pelvis w	CT Pelvis wo	CT Pelvis wwo	MR Pelvis w	MR Pelvis wo	MR Pelvis wwo	References
Osteoarthritis	No XR		1	1	1	1	1	1	1	1			4		1	1	1	1	1	1	1
Osteoarthritis, Fracture and/or Surgical Candidate	XR		1	1	4	1	1	4	1	1					1	1	1	1	1	1	14
Osteoarthritis, Fracture and/or Surgical Candidate	XR	MR	1	1	4	1	1	1	1	1					1	1	1	1	1	1	13,
Osteoarthritis, Fracture and/or Surgical Candidate	XR	СТ	1	1	1	1	1	4	1	1					1	1	1	1	1	1	LBP
Osteoarthritis, Fracture and/or Surgical Candidate	XR	MR, CT	2	2	2	2	2	2	2	2					2	2	2	2	2	2	LBP
Osteoarthritis, No Fracture and/or Surgical Candidate	XR		1	1	1	1	1	1	1	1					1	1	1	1	1	1	LBP



Condition 17 – Piriformis Syndrome - Sciatic Nerve Irritation

Condition	Contraindications	CT Arth Hip	CT Hip w	CT Hip wo	CT Hip wwo	MR Hip w	MR Hip wo	MRwwo	MR Arth	MR L-plex	NM Bone Scan	XR Hip	US Hip	CT Pelvis w	CT Pelvis wo	CT Pelvis wwo	MR Pelvis w	MR Pelvis wo	MR Pelvis wwo	References
Piriformis Sciatica		1	1	1	1	1	1	1	1	4				1	1	1	1	1	1	12
Piriformis Sciatica	MR	2	2	2	2	2	2	2	2					2	2	2	2	2	2	LBP

Condition 18 – Post-Fracture Healing Assessment

Condition	Priors	Contraindications	CT Arth Hip	CT Hip w	CT Hip wo	CT Hip wwo	MR Hip w	MR Hip wo	MR wwo	MR Arth	MR L-plex	NM Bone Scan	XR Hip	US Hip	CT Pelvis w	CT Pelvis wo	CT Pelvis wwo	MR Pelvis w	MR Pelvis wo	MR Pelvis wwo	References
Post- Fracture Healing	No XR		1	1	1	1	1	1	1	1			4		1	1	1	1	1	1	
Post- Fracture Healing	XR		1	1	4	1	1	1	1	1					1	1	1	1	1	1	13
Post- Fracture Healing	XR	СТ	2	2	2	2	2	2	2	2					2	2	2	2	2	2	



Condition 19 – Preoperative – Known Fracture

Condition	Contraindications	CT Arth Hip	CT Hip w	CT Hip wo	CT Hip wwo	MR Hip w	MR Hip wo	MR wwo	MR Arth	MR L-plex	NM Bone Scan	XR Hip	US Hip	CT Pelvis w	CT Pelvis wo	CT Pelvis wwo	MR Pelvis w	MR Pelvis wo	MR Pelvis wwo	References
Preop- Fracture		1	1	4	1	1	4	1	1					1	1	1	1	1	1	
Preop- Fracture	MR	1	1	4	1	1	1	1	1					1	1	1	1	1	1	3P
Preop- Fracture	СТ	1	1	1	1	1	4	1	1					1	1	1	1	1	1	LBP
Preop- Fracture	MR CT	2	2	2	2	2	2	2	2					2	2	2	2	2	2	



Condition 20 - Soft Tissue Injury - Hip

Condition	US Expertise?	Contraindications	CT Arth Hip	CT Hip w	CT Hip wo	CT Hip wwo	MR Hip w	MR Hip wo	MR wwo	MR Arth	MR L-plex	NM Bone Scan	XR Hip	US Hip	CT Pelvis w	CT Pelvis wo	CT Pelvis wwo	MR Pelvis w	MR Pelvis wo	MR Pelvis wwo	References
Soft Tissue Injury	Yes		1	1	1	1	1	4	1	1				3	1	1	1	1	1	1	
Soft Tissue Injury	No		1	1	1	1	1	4	1	1					1	1	1	1	1	1	7, 8
Soft Tissue Injury	Yes	MR	1	1	1	1	1	1	1	1				4	1	1	1	1	1	1	1, 6,
Soft Tissue Injury	No	MR	2	2	2	2	2	2	2	2					2	2	2	2	2	2	

Condition 21 – Hip Tendon Repair - Status Post

Condition	Contraindications	CT Arth Hip	CT Hip w	CT Hip wo	CT Hip wwo	MR Hip w	MR Hip wo	MR wwo	MR Arth	MR L-plex	NM Bone Scan	XR Hip	US Hip	CT Pelvis w	CT Pelvis wo	CT Pelvis wwo	MR Pelvis w	MR Pelvis wo	MR Pelvis wwo	References
Hip Tendon		1	1	4	1	1	1	1	1					1	1	1	1	1	1	
Repair																				LBP
Hip Tendon	СТ	2	2	2	2	2	2	2	2					2	2	2	2	2	2	<u> </u>
Repair																				



Condition 22 – Traumatic Hip Pain – Fracture Known or Suspected

Condition	Priors	Contraindications	CT Arth Hip	CT Hip w	CT Hip wo	CT Hip wwo	MR Hip w	MR Hip wo	MR wwo	MR Arth	MR L-plex	NM Bone Scan	XR Hip	IIS Hin	CT Dolvie w	CT Pelvis wo	CT Pelvis wwo	MR Pelvis w	MR Pelvis wo	MR Pelvis wwo	References
Hip Trauma Known or Suspected Fracture	No XR		1	1	1	1	1	1	1	1			4		1	1	1	1	1	1	1
Hip Trauma Known or Suspected Fracture	XR		1	1	3	1	1	4	1	1					1	1	1	1	1	1	1, 20, 21
Hip Trauma Known or Suspected Fracture	XR	MR	1	1	4	1	1	1	1	1					1	1	1	1	1	1	
Hip Trauma Known or Suspected Fracture	XR	СТ	1	1	1	1	1	4	1	1					1	1	1	1	1	1	20, LBP
Hip Trauma Known or Suspected Fracture	XR	MR CT	2	2	2	2	2	2	2	2					2	2	2	2	2	2	



Sources

The Hip Pain AUC has been developed by Weill Cornell Medicine utilizing the following twenty-one published sources.

No.	Source
1	Strategy and optimization of diagnostic imaging in painful hip in adults, Orthop Traumatol Surg Res. 2015 Feb, A. Blum, A. Raymond , P. Teixeira https://www.ncbi.nlm.nih.gov/pubmed/25599865
2	Magnetic Resonance Imaging of Hip Tumors, Magn Reson Imaging Clin N Am. 2013 Feb, Laura W. Bancroft, MD, Christopher Pettis, MD, Christopher Wasyliw, MD
	https://www.ncbi.nlm.nih.gov/pubmed/23168188
3	MR Imaging of Hip Infection and Inflammation, MRI Clinics February 2013, Luke Maj, MD, MHA, Yuliya Gombar III, MS, William B. Morrison, MD, https://www.mri.theclinics.com/article/S1064-9689(12)00113-4/abstract
4	Imaging of the Acetabular Labrum, Semin Musculoskelet Radiol. 2013 Jul, James D. Thomas, MBBS, FRCR Zhi Li, BS, Anne M. Agur, PhD, Philip Robinson, MB, ChB, FRCR, https://www.ncbi.nlm.nih.gov/pubmed/23787979
5	Magnetic Resonance Imaging of Acetabular Labral Tears, J Bone Joint Surg Am. 2011 May, Kawan S. Rakhra MD, FRCPC
	https://www.ncbi.nlm.nih.gov/pubmed/21543685
6	Imaging of the Tendons About the Pelvis, AJR September 2010, Laura W. Bancroft, Donna G. Blankenbaker https://www.ajronline.org/doi/10.2214/AJR.10.4682
7	Imaging of Groin Pain: Magnetic Resonance Imaging and US Features, Sports Health. 2017 Sep/Oct, Susan C. Lee, MD, Yoshimi Endo, MD, and Hollis G. Potter, MD
	https://www.ncbi.nlm.nih.gov/pubmed/28850315
8	The Painful Hip: New Concepts Skeletal Radiology, Skeletal Radiol. 2006 Jun, Donna G. Blankenbaker, Michael J. Tuite https://www.ncbi.nlm.nih.gov/pubmed/16552608
9	Imaging of the Painful Hip Arthroplasty, Can Assoc Radiol J. 2016 Nov, Rikin Hargunani, MBBS, BSc, MRCS, FRCR, Hardi Madani, FRCR et al. https://www.ncbi.nlm.nih.gov/pubmed/27221697
10	Imaging of Hip Arthroplasty, EJR, 2012 Dec, Theodore T. Miller https://www.ejradiology.com/article/S0720-048X(11)00380-9/abstract
11	Current concepts on osteonecrosis of the femoral head., World J Orthop. 2015 Sep, Joaquin Moya-Angeler, Arianna L Gianakos, Jordan C Villa, Amelia Ni, Joseph M Lane https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4573503/



Hip Pain Appropriate Use Criteria[©]

12	Hip pathology: the diagnostic accuracy of magnetic resonance imaging., Journal of Orthopaedic Surgery and Research, 2018 May, Lucas Annabell, Vahid Master, Alexander Rhodes, Brett Moreira, Cassandra Coetzee and Phong Tran https://josr-online.biomedcentral.com/articles/10.1186/s13018-018-0832-z
13	Fracture healing: A review of clinical, imaging and laboratory diagnostic options., Injury. 2017 Jun, Brian P. Cunningham, Sloane Brazina, Saam Morshed, Theodore Miclau III https://www.ncbi.nlm.nih.gov/pubmed/28483359
14	Imaging of the hip in patients with rheumatic disorders., EJR, 2007 July, Nathalie Boutry, Chadi Khalil et al. https://www.ejradiology.com/article/S0720-048X(07)00162-3/fulltext
15	Pelvic heterotopic ossification: when CT comes to the aid of MR., Insights Imaging. 2013 Oct, Andrea Zagarella & Elisabetta Impellizzeri et al. https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3781260/
16	Computed tomography for preoperative planning in total hip arthroplasty., Skeletal Radiol. 2014 Aug, Alexander Huppertz & Sebastian Radmer et al. https://www.ncbi.nlm.nih.gov/pubmed/24622927
17	Accuracy of MRI studies in the detection of chondral and labral lesions ., BMC Musculoskeletal Disorders, 2017 Feb, Saied et al. https://bmcmusculoskeletdisord.biomedcentral.com/articles/10.1186/s12891-017-1443-2
18	Imaging of femoroacetabular impingement-current concepts, Journal of Hip Preservation Surgery, 2016 Oct, Christoph E. Albers et al. https://academic.oup.com/jhps/article/3/4/245/2559449
19	The American Journal of Sports Medicine, Vol. 45, No. 1, The American Journal of Sports Medicine, Vol. 45, No. 1, Michael P. Reiman. (No URL)
20	Imaging of Traumatic Injuries to the Hip., Semin Musculoskelet Radiol. 2013 Jul, Jason W. Stephenson, MD, Kirkland W. Davis, MD. https://www.ncbi.nlm.nih.gov/pubmed/23787985
21	MRI IDENTIFIES OCCULT HIP FRACTURES MISSED BY CT., J Emerg Med. 2012 Aug, David K. Hakkarinen. https://www.ncbi.nlm.nih.gov/pubmed/22459594
22	Ethan A. Neufeld MR Imaging of the Lumbosacral Plexus: A Review of Techniques and Pathologies J Neuroimaging 2015;25:691-703 https://www.ncbi.nlm.nih.gov/pubmed/25940664
23	Computed Tomography for preoperative planning in total hip arthroplasty: What radiologists need to know. Huppertz, Radmer S, Wagner M, Roessler T, Hamm B, Sparmann M. https://www.ncbi.nlm.nih.gov/pubmed/24622927
24	Sariali E et al. Orthopaedics & Traumatology: Surgery & Research (2012) 98, 151—158 (no URL)