

Musculoskeletal imaging recommendations for MPS disorders¹

Imaging study	Initial assessment	Yearly	Comments
Cervical spine			
Flexion/extension lateral radiographs	●		Follow neurological exam yearly, with repeat radiographs every 3–5 years.
MRI	●	●	
Thoracolumbar spine			
AP/lateral 36-inch cassette radiographs	●	●	Exams are less frequent as growth slows. Further exams warranted only with change in neurological exam. Primarily warranted for preoperative evaluation.
MRI	●		
CT scan			
Hips/pelvis			
AP pelvis	●	●	
Lower extremities			
Standing AP radiographs	●		Further exams warranted based on clinical exam.
Skeletal survey			
AP/lateral skull	●		
AP/lateral spine	●		
AP pelvis	●		
AP forearms	●		
AP hands	●		
AP feet	●		
Lateral cervical spine	●		

Adapted from White, *Rheumatology*, 2011.

Abbreviations: AP, anteroposterior; CT computed tomography; MPS, mucopolysaccharidoses; MRI, magnetic resonance imaging.

Reference: 1. White KK. Orthopaedic aspects of mucopolysaccharidoses. *Rheumatology (Oxford)*. 2011;50(suppl 5):v26-v33. doi:10.1093/rheumatology/ker393.