



**IMAGING ENDPOINTS**  
CONNECTING IMAGING TO THE CURE

## MUSCULOSKELETAL IMAGING

### AS FAR AS IMAGING CAN SEE

The number and type of analyses that can be performed in musculoskeletal imaging is limited only by the imagination. While we can measure virtually anything, we must take care that incoming imaging is the right quality and that the data we extract is meaningful. Small variations in measurements can lead to huge variance in outcomes. That means most MSK analyses must be performed by individuals with superior training in anatomy and pathology – in other words, radiologists. No tech or automated system has the sophistication, experience and knowledge base to supplant a radiologist's eye when your clinical trial data is at stake. Because Imaging Endpoints is owned and operated by radiologists, you gain an expert advantage in your clinical trials.

The therapeutic areas that MSK encompasses are extremely diverse, and the optimal imaging strategies vary just as broadly. To ensure consistency and reliability of results, we highly recommend building imaging into your project plan as a core component, preparing you for success in your musculoskeletal trial.

### OUR EXPERTISE

The musculoskeletal radiology team at Imaging Endpoints consists of five board-certified, specialty-trained radiologists with broad experience in musculoskeletal imaging, including trauma and related hardware, podiatry (foot and ankle), tumor imaging, 3D reconstruction, and total joint replacements. Imaging study expertise includes, but is not limited to, the following trial areas:

- Trauma
- Orthopedic devices – various
- Rheumatoid arthritis
- Osteoarthritis
- Muscle wasting diseases
- Spinal interventions (kyphoplasty, vertebroplasty)
- Spinal fusion surgeries

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## MUSCULOSKELETAL IMAGING (Cont.)

### ASSESSMENTS

#### Quantitative

- BMD through QCT, DXA, clinical CT (without the use of an external phantom)
- Vertebral and disc measurements (volume, height, etc)
- Bone age
- Bone & Muscle volumes
- Intramuscular and subcutaneous fat volume
- Total enhancing tissue in RA

#### Semi-quantitative

- Bone graft incorporation

#### Qualitative

- Fracture characterization and healing assessments
- Spinal fusion success
- Disc degeneration
- Enhancing synovium in RA
- Bone marrow edema in RA
- Cartilage and bone morphology

### MODALITIES

- CT – qCT
- MRI
- X-Ray
- DEXA
- PET/CT

### TAKE A LOOK AT IMAGING ENDPOINTS

No other imaging core lab can match the experience and expertise of Imaging Endpoints. Contact us to find out all the ways we can accelerate your clinical trial.