

Multimedia Appendix 4. Type of differential diagnoses selected by the senior physician for each level of complexity.

	AMHTD	Control group
Low complexity (1-2 DD to find)	Soft tissue swelling (4) Muscle or tendon sprain (2) Shoulder fracture Shoulder osteoarthritis Triceps brachialis tendinosis Olecranon bursitis Aspecific back pain (2) Inflammatory (peri)arthritis Patellar bursitis Septic patellar bursitis Ankle fracture (2) Poor evolution ankle sprain Ankle sprain (3)	Soft tissue swelling (1) Muscle or tendon sprain (1) Dermatosis (2) Dermohypodermitis (2) Aspecific back pain (2) (Lombo-)sciatica Inflammatory (peri)arthritis Ankle fracture (3) Ankle sprain (3) Ankle osteoarthritis
Moderate complexity (3 DD to find)	Soft tissue swelling (2) Dermohypodermitis (Cervico-)brachalgia (Cervico-)brachalgia & weakness Aspecific back pain (2) Back pain with red flag Inflammatory (peri-)arthritis Monoarthritis Ankle fracture Ankle sprain Lisfranc or Chopard sprain (2) Ankle osteoarthritis	Soft tissue swelling (2) Central neurologic disease Myositis (2) Collarbone fracture or luxation Shoulder fracture Glenohumeral luxation Posterosuperior shoulder impingement Aspecific back pain (3) Back pain with red flag (2) (Lombo-)sciatalgia (2) (Lombo-)sciatalgia & weakness Monoarthritis Leg extensors strain Knee fracture Knee collateral ligament sprain Meniscal tear Knee cartilaginous traumatic lesion Knee osteoarthritis (2) Baker cyst Septic patellar bursitis Ankle fracture (3) Ankle sprain (3) Tibiofibular syndesmosis sprain Peroneous tendons tendinosis Lisfranc or Chopard sprain

	AMHTD	Control group
High complexity (4-5 DD to find)	Soft tissue swelling (4) Muscle or tendon sprain (7) Inflammatory (peri-)arthritis (2) Monoarthritis (4) Myositis Polyneuropathy Arterial insufficiency Deep vein thrombosis Stress fracture (2) Rotator cuff lesion Frozen shoulder Shoulder osteoarthritis Aspecific back pain Back pain with red flag (Lombo-)sciatalgia Abdominal wall originated pubalgia Adductor sprain (2) Hip: osteoarthritis, impingement, labral tear Greater trochanteric pain syndrome Leg extensors strain Long bone fracture Knee fracture (2) Severe knee sprain Knee collateral ligament sprain Patellar luxation Meniscal tear (4) Knee osteoarthritis (3) Baker cyst Patellar bursitis (2) Ankle fracture Ankle sprain	Soft tissue swelling (3) Muscle or tendon sprain (2) Stress fracture (2) Inflammatory (peri-)arthritis Monoarthritis Median nerve neuropathy Collarbone fracture or luxation Shoulder fracture Shoulder luxation (Lombo-)sciatica (Lombo-)sciatalgia & weakness Femoral nerve neuropathy Hip: osteoarthritis, impingement, labral tear Greater trochanteric pain syndrome Leg extensors strain Severe knee sprain (2) Knee collateral ligament sprain Patellar luxation Meniscal tear (2) Knee cartilaginous traumatic lesion Patellar tendinopathy Tibial periostitis or stress fracture Ankle fracture Ankle sprain Tibiofibular syndesmosis sprain Peroneous tendons tendinosis Tibialis posterior tendinosis Lisfranc or Chopard sprain Metatarsalgia