Musculoskeletal Sonography (RMSK) Examination Content Outline

(Outline Summary)

#	Domain	Subdomain	Percentage
1	**General Sonographic Anatomy**		**20%**
2	**General Sonographic Pathology**		**42%**
3	**Ultrasound-guided Interventional Procedures**		**17%**
4	**Instrumentation and Data Integration**	• Instrumentation • Data Integration	**21%**

(Detailed Outline)

1.	**General Sonographic Anatomy 20%**
1.A.1	Shoulder: Perform general ultrasound of the bones, muscles, tendons, ligaments, bursae, cartilage, joints, and neural structures of the shoulder
1.A.2	Elbow: Perform general ultrasound of the bones, muscles, tendons, ligaments, bursae, cartilage, joints, and neural structures of the elbow
1.A.3	Hand and Wrist: Perform general ultrasound of the bones, muscles, tendons, ligaments, bursae, cartilage, joints, and neural structures of the hand and wrist
1.A.4	Abdominal and Chest Wall: Perform general ultrasound of the abdominal and chest wall, including assessment where applicable, of the muscles, fascia, neural structures, pleura, ribs, bursa, cartilage, joints, aponeuroses, and tendons
1.A.5	Hip and Pelvis: Perform general ultrasound of the bones, muscles, tendons, ligaments, bursae, cartilage, joints, and neural structures of the hip and pelvis
1.A.6	Knee: Perform general ultrasound of the bones, muscles, tendons, ligaments, bursae, cartilage, joints, and neural structures of the knee
1.A.7	Foot and Ankle: Perform general ultrasound of the bones, muscles, tendons, ligaments, bursae, cartilage, joints, and neural structures of the foot and ankle
2.	**General Sonographic Pathology 42%**

2.A.1	Evaluate bone erosion
2.A.2	Evaluate cartilage pathology
2.A.3	Evaluate crystal deposits
2.A.4	Evaluate cystic structures
2.A.5	Evaluate foreign bodies
2.A.6	Evaluate fractures
2.A.7	Evaluate infections
2.A.8	Evaluate joint instability/altered function
2.A.9	Evaluate joint effusions
2.A.10	Evaluate ligament pathologies
2.A.11	Evaluate lymph nodes
2.A.12	Evaluate masses
2.A.13	Evaluate muscle pathologies
2.A.14	Evaluate nerve pathologies
2.A.15	Evaluate subcutaneous abnormalities
2.A.16	Evaluate synovial pathologies
2.A.17	Evaluate tendon pathologies
3.	**Ultrasound-guided Interventional Procedures 17%**
3.A.1	Shoulder: Perform interventional procedures (e.g., aspirations, biopsies, injections) on the bursae, joints, ligaments, tendons, and neural structures of the shoulder
3.A.2	Elbow: Perform interventional procedures (e.g., aspirations, biopsies, injections) on the bursae, joints, ligaments, tendons, and neural structures of the elbow
3.A.3	Hand and Wrist: Perform interventional procedures (e.g., aspirations, biopsies, injections) on the joints, ligaments, tendons, and neural structures of the hand and wrist
3.A.4	Abdominal and Chest Wall: Perform interventional procedures of the abdominal and chest wall, including assessment where applicable, of the muscles, fascia, neural structures, pleura, bursa, cartilage, joints, aponeuroses, and tendons
3.A.5	Hip and Pelvis: Perform interventional procedures (e.g., aspirations, biopsies, injections) on the bursae, joints, tendons, and neural structures of the hip and pelvis
3.A.6	Knee: Perform interventional procedures (e.g., aspirations, biopsies, injections) on the bursae, joints, ligaments, tendons, and neural structures of the knee
3.A.7	Foot and Ankle: Perform interventional procedures (e.g., aspirations, biopsies, injections) on the bursae, joints, fascia, ligaments, tendons, and neural structures of the foot and ankle.

4.	Instrumentation and Data Integration 21%
4.A.	***Instrumentation***
4.A.1	Obtain and optimize gray-scale images (e.g., depth, gain, power output, focus, time gain compensation [TGC], dynamic range, etc.)
4.A.2	Optimize Doppler techniques (e.g., color gain, pulse repetition frequency [PRF], etc.)
4.A.3	Evaluate artifacts (e.g., anisotropy, acoustic shadowing, refractile shadowing, reverberation, acoustic enhancement, etc.)
4.A.4	Select and use appropriate transducer
4.A.5	Identify safety and bio effects related to performing the exam
4.B.	***Data Integration***
4.B.1	Correlate sonographic information with clinical history
4.B.2	Generate comprehensive diagnostic reports including clinical correlation and recommendations, and communicate findings appropriately