The overall goal of the course is to update allied health practitioners in the base basic knowledge of spine and increase competence in evaluating, counseling, managing and/or, when appropriate, referring patients who present with spine conditions. The course will include lectures, panel discussions with question & answer periods, and case reviews.

**Learning Objectives:**

At the conclusion of this activity, participants:

I. Utilize the most up-to-date information to evaluate, diagnose, and manage patients with the following spine conditions:
   - Low back and chronic pain
   - Sports related spine injuries
   - Adult spinal deformities
   - Cervical myelopathy
   - Cervical radiculopathy
   - Lumbar stenosis
   - Spinal metastatic disease

II. Develop appropriate pain management strategies for patients with above conditions including ordering an appropriate diagnostic imaging.

III. Determine appropriate patients to refer to spine specialists including to non-operative and operative spine providers.

**Agenda**

**June 28**

**Morning: Didactic Lectures in General Spine Care**

7:30 – 8:30 a.m.
Registration and Breakfast

8:30 – 9:00
Welcome & Announcements - Fassil B. Mesfin MD, PhD

9:00 – 9:30
Physical Exam in Evaluation of Spine
Matthew Burton, MD

10:00 – 10:30
Spine Imaging for Primary Care Providers
Joseph Cousins, MD, PhD

10:30 – 11:00
Medical Management for Acute and Chronic Spine Pain
Mohammad T. Agha, MD

11:00 – 11:30
Interventional Treatments for Acute and Chronic Spine Pain - Fassil B. Mesfin, MD, PhD

11:30 – 12:00 p.m.
Question and answers - Faculty

12:00 – 1:00
Lunch - Exhibits

**Afternoon: Didactic Lectures in Common Pathologies in Spine**

1:05 - 2:05
Cranio-cervical junction pathologies and surgical treatments
   1. Radiographic findings – Humera Ahsan, MD
   2. Non-surgical managements – Ebby Varghese, MD
   3. Surgical approaches – Thor Norregaard, MD

2:05 - 3:05
Cervical Spine Pathologies and Surgical Treatments
   1. Radiographic findings – Humera Ahsan, MD
   2. Non-surgical managements – Ebby Varghese, MD
   3. Surgical approaches – Tomoko Tanaka, MD

**Accreditation:**

The Office of Continuing Education, School of Medicine, University of Missouri is accredited by the Accreditation Council for Continuing Medical Education (ACCME) to provide continuing medical education for physicians.

The Office of Continuing Education, School of Medicine, University of Missouri designates this live educational activity for a maximum of 11.5 AMA PRA Category 1 Credits™. Physicians should only claim credit commensurate with the extent of their participation in this activity.
3:05 - 4:05  
**Thoracic Spine pathologies and surgical treatments**
1. Radiographic findings – James Stensby, MD
2. Non-surgical managements – Endrit Ziu, MD
3. Deformity TL spine surgical approaches – Ted Choma, MD

4:05 - 5:05  
**Lumbo-sacral spine pathologies and surgical treatments**
1. Radiographic findings – James Stensby, MD
2. Non-surgical managements – Mark Drymalski, MD
3. Surgical approaches – Don Moore, MD

5:05  
**Conclusion of Day 1 - Course continues on June 29 at 9:00 a.m.**

Symposium – Sponsors/ Exhibitors

**June 29**
**Practical Cadaver Laboratory**

9:00 - 10:00 a.m.
Breakfast

10:00 – 3:00 p.m.
**Practical Cadaver Laboratory**

Station 1, 2, and 3:
**Interventional spine and SI joint procedures** – SI joint injection, Facet joint injection, Spinal epidural injection, Nerve root block, Epidural blood patch, Vertebroplasty, SCS placement – Ebby Varghese, MD; Nicholas Madaffer, DO; James Stensby, MD

Station 4: **Approaches for Cervical Spine**
O-C fusion, C1-2 fusion, and C-spine lateral mass instrumentation/stabilization, ACDF
Tomoko Tanaka, MD; Don Moore, MD

Station 5: **Approaches to T-spine, L-spine, and LS spine stabilization via open and MIS techniques**
S. Craig Meyer, MD; Fassil Mesfin, MD, PhD

Station 6: **Lateral approaches to T-spine and L-spine stabilization** - Thor Norregaard, MD; Ted Choma, MD

12:00 p.m.
Lunch

7:00  
**Dinner/Keynote - Country Club of Missouri**
**The Evolution and Future of Spine Care**
Edward C Benzel MD

There is no course fee, however, registration is required.
**Deadline for registration is June 15, 2019**