Osteoarthritis and Pain Symposium



Wednesday, December 20, 2017 9:00 am - 5:00 pm

Boston University School of Medicine Instructional Building | 72 East Concord Street Hiebert Lounge | 14th Floor

Course Director: Tuhina Neogi, MD, PhD, FRCPC

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AGENDA

Disease Background	Presenter	Time
Welcome and Opening Remarks	Tuhina Neogi	9:00-9:15
Osteoarthritis: Pathophysiology	David Felson	9:15–9:45
Osteoarthritis: Epidemiology	Tuhina Neogi	9:45–10:15
Consequences of knee osteoarthritis: Disability $\mathcal E$ Mortality	Devyani Misra	10:15-10:45
Break – Refreshments served		10:45-11:00
Disease Management		
Evidence-based management of knee osteoarthritis	David Felson	11:00–11:45
Musculoskeletal ultrasound in the management of knee osteoarthritis	Eugene Kissin	11:45–12:00
Lunch – Refreshments served		12:00-1:00
Disease Treatment		
Imaging findings of knee osteoarthritis and implications for the anti-NGF Program	Ali Guermazi	1:00-1:30
Pain mechanisms in knee osteoarthritis	Tuhina Neogi	1:30-2:00
Rehabilitation approaches in knee osteoarthritis	Deepak Kumar	2:00-2:30
Break – Refreshments served		2:30-2:45
Patient Interactions		
Physical examination of knee osteoarthritis (patient demonstration)	David Felson	2:45-3:00
Patient Panel Moderat	tor: David Felson	3:00-4:00
Novel treatment targets in osteoarthritis	Tuhina Neogi	4:00-4:30
Panel Discussion/Audience Q&A/Concluding Remarks Moderate	or: David Felson	4:30-5:00



Tuhina Neogi, MD, PhD, FRCPC

Dr. Neogi is internationally recognized for her expertise in the epidemiology and management of osteoarthritis, mechanisms of osteoarthritis-related pain, risk factors and management of gout, and classification criteria and outcome measures for various rheumatic diseases. She serves on numerous scientific organizations and committees, and has received awards for her research. Additionally, Dr. Neogi has an active NIH-funded research program, mentors numerous trainees and junior faculty, and is involved in teaching students and trainees. Her fields of research are osteoarthritis, gout, pain mechanisms, and epidemiology of musculoskeletal/rheumatic diseases.



David Felson, MD, MPH

Dr. Felson is a rheumatologist and clinical epidemiologist and chairs the Section of Clinical Epidemiology and directs the training program for the Boston University CTSI. His main contributions to science are in the areas of osteoarthritis and rheumatoid arthritis outcomes. He started the Framingham Osteoarthritis Study, which was the first modern day study to characterize the prevalence of disease and was the first to obtain MRIs on a community sample. His group was the first to show that obesity preceded knee OA and probably caused it and that weight loss could prevent disease. His recent work has been to document that structures in the joint outside of cartilage generate pain in those with disease, and that these structures may be good therapeutic targets.



Devyani Misra, MD, MBBS

Dr. Misra is a clinician-scientist trained in geriatrics, rheumatology and epidemiology. Her long-term goal is to improve the lives of elders with OA. Her research focus lies at the intersection of aging and rheumatology; she is specifically interested in understanding mechanisms leading to development of age-related joint (osteoarthritis), muscle (sarcopenia) and bone (osteoporosis) impairment. Research interests include mechanisms for muscle loss, frailty in association with oa, biomarkers for OA, pharmacoepidemiology studies in osteoporosis, and calcium crystal arthritis and imaging; special interests are geriatric rheumatology, OA, RA, gout/pseudogout, and osteoporosis. Dr. Kissin is an ACR ultrasound faculty instructor and the USSONAR founder and program director. He served on the ACR musculoskeletal ultrasound certification task force and is the committee chair for the ACR musculoskeletal ultrasound education committee. He is an OMERACT group member in musculoskeletal ultrasound. Dr. Kissin established the rheumatology musculoskeletal ultrasound training program and certification pathway at Boston University Medical Center, where he is the rheumatology fellowship program director, and director of resident and student education in rheumatology. He conducts research in musculoskeletal ultrasound education and its clinical applications.

Ali Guermazi, MD, PhD

Dr. Guermazi is a Professor of Radiology and Director of the Quantitative Imaging Center at Boston University School of Medicine. His interest is musculoskeletal diseases, in particular the diagnosis and disease progression assessment of osteoarthritis using MRI. His work has focused on identifying structural risk factors for developing and worsening osteoarthritis. Dr. Guermazi had been involved in developing several original and widely accepted radiological methods to assess osteoarthritis disease risk and progression, including the WORMS and BLOKS for the knee, and fixed-flexion radiography for measuring joint space width. He is a leading radiologist on imaging risk mitigation in a-NGF programs.

Deepak Kumar, PT, PhD, OCS

Dr. Kumar's research interests are to unravel the biomechanical mechanisms underlying the onset and progression of tissue damage in osteoarthritis, and use this knowledge to develop more effective and personalized treatment interventions that reduce disability and directly impact patient care.







Eugene Kissin, MD, FACR, RhMSUS Dr. Kissin is an ACR ultrasound faculty instructor and the USSONA