Department of Medicine Annual Report 2011

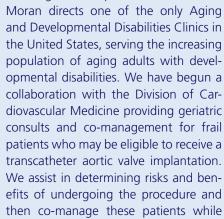


Lewis A. Lipsitz, MD, Chief — The Division of Gerontology was established in 1976 to support a core faculty of geriatricians and gerontologists committed to the advancement of knowledge about aging and to the improvement of health care for the older population. It includes clinical and research faculty from BIDMC and Hebrew SeniorLife. Hebrew SeniorLife supports one of the nation's leading clinical research centers in gerontology and provides multilevel post-acute care and rehabilitation services for seniors.

Highlights

Clinical Highlights

Clinical activities include primary and consultative care in our ambulatory clinic, inpatient attending services for hospitalized patients from our practice sites and an inpatient consult service. We also provide geriatric medical oversight for the acute geriatric inpatient unit. Dr. Julie





Konstantin Khrapko, PhD

Our partner, Hebrew SeniorLife, provides rehabilitative, long-term and acute care for nearly 5,000 elderly people. Its newest facility called

they are hospitalized.

NewBridge on the Charles is an innovative continuing care retirement community in Dedham that serves seniors ranging from the most independent and fit to the most dependent and chronically ill. Its campus also supports a day school for children who interact with the seniors. The Hebrew SeniorLife Department of Medicine provides outpatient geriatric care and a new model of patient-centered long-term care that focuses on the maintenance of independence, functional ability and choice.

Educational Highlights

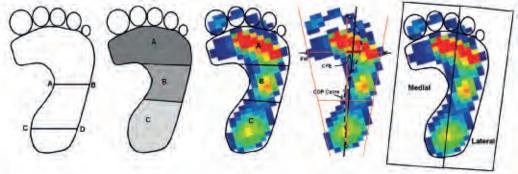
The HMS Geriatric Medicine Fellowship program has trained 219 new specialists in geriatric medicine since 1980 and is one of the largest in the country. The program offers training beyond the ACGME one-year requirement, in either a research or clinician-educator track. With the support of a Geriatric Training Grant from the Health Resources and Services Administration, the program developed an interdisciplinary curriculum for the training of geriatric medicine, psychiatry and dental fellows. Graduates from the Fellowship become academic leaders in research, education and health care policy, helping to serve the needs of a growing senior population.

Research Highlights

Research in the Division of Gerontology ranges from basic science to clinical studies. The laboratory of Dr. Konstantin Khrapko has been using next generation sequencing to measure mitochondrial DNA (mtDNA) mutations in humans and animal models such as the mtDNA mutator mouse, the mitochondrial SOD heterozygous mouse and the naked mole rat, for which the Khrapko lab was the first to publish a mitochondrial DNA sequence. The goal of Dr. Khrapko's

studies is to more accurately quantify mtDNA mutations and their spectra in order to better understand the sources and consequences of these mutations in different tissues, conditions and animals with different lifespans.

Dr. Marian Hannan is Principal Investigator of the NIH-funded Framingham Foot Study, a population-based study of nearly 3,000 older adults on whom plantar pressure scans for each foot have been recorded. These scans allow Dr. Han-



These foot scans allow doctors to examine the foot biomechanics of study participants and help our understanding of poor foot biomechanics. Courtesy of Marian Hannan, DSc.

Honors and Awards

Lewis A. Lipsitz, MD – Won the Joseph Freeman Award, presented at the Gerontology Society of America Conference in Boston, MA.

Konstantin Khrapko, PhD – Awarded the Ellison Foundation Senior Scholar in Aging Award.

Medha Munshi, MD – Profiled in *Lancet* for developing innovative programs for the management of diabetes in elderly patients.

Marian Hannan, DSc – Named Editor-in-Chief for the *Arthritis Care and Research* journal.

Sharon Inouye, MD, MPH – Awarded the Pinnacle Award by the Boston Chamber of Commerce.



Based on Project ECHO (Extension for Community Health care Outcomes) at the University of New Mexico, ECHO-AGE is an exciting new care delivery model developed and led by Division faculty to increase the expertise of community-based physicians and nurses in geriatric medicine and provide web-based consultations and co-management of their complex geriatric patients. Community physicians throughout New England will be trained to become local geriatric experts through participation in bi-annual symposia and weekly teleconferences with a multidisciplinary team led by academic geriatricians. The program will initially target care providers in skilled nursing facilities with a focus on delirium and dementia. Clinical and satisfaction outcome measures will be monitored.

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nan to examine the foot biomechanics of study participants. Recent results show that home- or community-dwelling adults with foot pain are more likely to have mobility-limitations even after accounting for the effects of age, obesity, cigarette smoking and depressive symptoms. Dr.

Hannan's current efforts are focused on potential interventions for those with foot pain, possibly though improving our understanding of poor foot biomechanics.

Faculty

Alan Abrams, MD
Randi Berkowitz, MD
Sarah Berry, MD, MPH
Angela Botts, MD
Jennifer Brinckerhoff, MD
Madalena Costa, PhD
Virginia Cummings, MD
Katalin Danji, MD
Tamara Fong, MD
Anupama Gangavati, MD
Jane Givens, MD
Marian Hannan, DSc
Yi-Hsiang Hsu, ScD
Sharon Inouye, MD, MPH

Richard Jones, ScD Susan Kalish, MD Ruth Kandel, MD David Karasik, PhD Konstantin Khrapko, PhD Douglas P. Kiel, MD, MPH Lewis A. Lipsitz, MD Brad Manor, PhD Edward Marcantonio, MD, SM Melissa Mattison, MD Robert McLean, DSc Eran Metzger, MD Susan Mitchell, MD, MPH Julie Moran, DO Medha Munshi, MD
Vera Novak, PhD
Erin O'Fallon, MD
Jennifer Rhodes-Kropf, MD
Shivani Sahni, PhD
Suzanne Salamon, MD
Elizabeth Samelson, PhD
Robert Schreiber, MD
Jason Strauss, MD
David Tsai, MD
San Wang, MD
Elizabeth White-Chu, MD
Frances Yang, PhD



Patient Spotlight

Willie Thompson — Dr. Gangavati was my first geriatrician, and a very good one. I like that she takes my ideas and we decide together what to do about keeping me healthy. I don't always understand at first, but she always takes the time to make sure I understand before I leave. I also like that my family is included, and the staff make sure we all work together.

Selected Publications

Gangavati A, Hajjar I, Quach L, Jones RN, Kiely DK, Gagnon P, Lipsitz LA. Hypertension, orthostatic hypotension, and the risk of falls in a community-dwelling elderly population: the maintenance of balance, independent living, intellect, and zest in the elderly of Boston study. *J Am Geriatr Soc* 2011; 59:383-9.

Givens JL, Prigerson HG, Jones RN, Mitchell SL. Mental health and exposure to patient distress among families of nursing home residents with advanced dementia. J Pain Symptom Manage 2011; 42:183-91.

Kim DH, Newman AB, Hajjar I, Strotmeyer ES, Klein R, Newton E, Sarnak MJ, Burke GL, Lipsitz LA. Retinal microvascular signs and functional loss in older persons: the Cardiovascular Health Study. *Stroke* 2011; 42:1589-95. Manor B, Costa MD, Hu K, Newton E, Starobinets O, Kang HG, Peng CK, Novak V, Lipsitz LA. Physiological complexity and system adaptability: evidence from postural control dynamics of older adults. *J Appl Physiol* 2010; 109:1786-91.

Munshi MN, Segal AR, Suhl E, Staum E, Desrochers L, Sternthal A, Guisti J, McCartney R, Lee Y, Bonsignore P, Weinger K. Frequent hypoglycemia among elderly with poor glycemic control. *Arch Intern Med* 2011; 171:362-362-4.

Rhodes-Kropf J, Cheng H, Castillo EH, Fulton AT. Managing the patient with dementia in long term care. *Clin Geriatr Med* 2011; 27:135-52.