

CURRICULUM VITAE

Ann C. McKee, M.D.

WEBSITES: <http://www.bu.edu/cste>, www.bu.edu/alzresearch

ACADEMIC TRAINING:

1975 B.S. University of Wisconsin, Madison, Wisconsin
1979 M.D. Case Western Reserve School of Medicine, Cleveland, Ohio

POSTDOCTORAL TRAINING:

1979 -1980 Intern in Internal Medicine, Cleveland Metropolitan General Hospital
1980 - 1981 Junior Assistant Resident in Internal Medicine, Cleveland Metropolitan General Hospital
1981 -1982 Senior Assistant Resident in Internal Medicine and Junior Assistant Resident in Neurology, Cleveland Metropolitan General Hospital
1982 -1983 Senior Assistant Resident in Neurology, Cleveland Metropolitan General Hospital
1983 - 1984 Chief Resident in Neurology and Neuropathology, Cleveland Metropolitan General
1984 - 1985 Fellow in the Neurology of Aging, University of Massachusetts Medical Center
1986 - 1988 Chief Resident in Neuropathology, Massachusetts General Hospital
1988 - 1989 Resident in Pathology, Massachusetts General Hospital

ACADEMIC APPOINTMENTS:

1984 - 1985 Clinical Fellow in Neurology, University of Massachusetts Medical Center
1986 - 1989 Clinical Fellow in Neuropathology (Pathology), Harvard Medical School
1989 - 1991 Instructor in Neuropathology (Pathology), Harvard Medical School
1991 - 1994 Assistant Professor in Neuropathology (Pathology), Harvard Medical School
1994 - 2011 Associate Professor in Neurology & Pathology, Boston University School of Medicine
2011 - Professor in Neurology & Pathology, Boston University School of Medicine

HOSPITAL APPOINTMENTS:

1991 - 1994 Assistant Pathologist (Neuropathology), Massachusetts General Hospital
1994 - 2006 Staff member, Boston Medical Center
1994 - Staff member, Bedford Veterans Administration Medical Center
2009 - Staff member, Boston Veterans Administration Medical Center
2010- Clinical privileges: Boston, Bedford, Togus, White River, West Haven, Providence, Manchester, and Northampton VAMCs

AWARDS, HONORS:

- 1984 Cleveland Neuroscience Research Award
1984 Cleveland Metropolitan General Hospital Resident Research Award
1989 Career Investigator Development Award, sponsored by the National Institute of Neurological and Communicative Disorders and Stroke, KO8 NS 01368
1990 Moore Award, American Association of Neuropathologists
1994 Merit Award, Veterans Administration, U.S. Government
2006 Moore Award, Honorable Mention, American Association of Neuropathologists
2009 Moore Award, Honorable Mention, American Association of Neuropathologists
2010 Blythe Memorial Lectureship, University of North Carolina Medical Center, Chapel Hill, North Carolina
2010 Massachusetts Neuropsychology Society Keynote Speaker
2010 MacFarlane Conference on Brain Injury Keynote Speaker, Little Rock, Arkansas
2011 Harold Alfond Sports Medicine Lectureship
2011 Gabriele Zu Rhein Lectureship in Neuropathology, University of Wisconsin, Madison
2011 Sports Legacy Institute, Impact Award
2011 Elected member of the Dana Alliance for Brain Initiatives
2012 Patriot Award, Appleton East High School, given to an alumnus for contributions to the community and accomplishments in life.

LICENSES AND CERTIFICATION:

- 1986 Massachusetts Medical License
1986 American Board of Psychiatry and Neurology
1989 American Board of Pathology - Special Qualification in Neuropathology

TEACHING EXPERIENCE AND RESPONSIBILITIES:

- 1983 - 1984 Lab instructor in Neuropathology, Case Western Reserve School of Medicine
1984 - 1985 Tutorial course in Clinical Neurology, University of Massachusetts Medical School
1986-1994 Teaching of Neuropathology to Pathology, Neurology, Neurosurgery and Neuroradiology Residents, Massachusetts General Hospital
1986-1987 Clinical instructor in Harvard Medical School course 709.0, Nervous System Pathophysiology 1987-1992
Instructor in Information Processing and Behavior, Oliver Wendell Holmes Society (New Pathway Program), Harvard Medical School

- 1994 - present Teaching of Neuropathology to: Medical Students, Pathology Residents, Neurology Residents, Microbiology Students, Dental Students, Graduate Students at the following facilities: Boston University School of Medicine, Mallory Institute of Pathology, Boston Medical Center, Bedford Veterans Administration Medical Center, West Roxbury Veterans Administration Medical Center
- 1999 - 2006 Lecturer in the Pathological Basis of Disease Course (Boston University Medical students Year 2) – 7 lectures per year
Lecturer in Pathological Basis of Disease Course (Boston University Dental Students) -1 lecture per year
Lecturer in Microbiology (Boston University Medical Students, Year 2) – 2 lectures/year
- 1994 -present Clinicopathological case presentations: Medical grand rounds – Boston University School of Medicine, Medical and Geriatric Research Educational Clinical Center Neurology Rounds – Bedford Veterans Administration Medical Center, Boston University Alzheimer’s Disease Center Weekly Conference, Brain cutting weekly sessions, Bedford and West Roxbury Veterans Administration Medical Centers

MAJOR ADMINISTRATIVE RESPONSIBILITIES:

- 1996- Director of the Brain Bank, Boston University Alzheimer's Disease Center
- 1996- Neuropathology Core Director, Boston University Alzheimer's Disease Center
- 1997- Director of Brain Bank, Framingham Heart Study
- 2001- Director of Brain Bank, Centenarian Study
- 2008- Director of Neuropathology, New England VISN-1 Veterans Administration Medical Centers
- 2008- Neuropathologist, National VA ALS Biorepository
- 2008- Co-Director, Center for the Study of Traumatic Encephalopathy, Boston University School of Medicine
- 2008- Director of Brain Bank, Center for the Study of Traumatic Encephalopathy

OTHER PROFESSIONAL ACTIVITIES:

PROFESSIONAL SOCIETIES: MEMBERSHIPS, OFFICES, AND COMMITTEE ASSIGNMENTS

- 1987- American Association of Neuropathologists
- 2008- Medical Advisory Board for Sports Legacy Institute (SLI)

- 2009- Mackey White TBI Committee for the NFLPA (National Football League Players' Association)
- 2011 Dana Alliance for Brain Initiatives, Dana Foundation
- 2012- Co-organizer with Sam Gandy and Steven T DeKosky: Keystone Symposium, Clinical and Molecular Biology of Traumatic Brain Injury and Post-Traumatic Stress Disorder, February 26-March 2, 2012

EDITORIAL BOARDS:

Ad hoc reviewer, *Journal of Neuropathology and Experimental Neurology*
 Ad hoc reviewer, *Neurology*
 Ad hoc reviewer, *Annals of Neurology*
 Ad hoc reviewer, *Neurobiology of Aging*
 Ad hoc reviewer, *Arch Neurology*
 Ad hoc reviewer, *Brain Research*
 Ad hoc reviewer, *Acta Neuropathologica*
 Ad hoc reviewer, *Amer J Pathology*

MAJOR COMMITTEE ASSIGNMENTS:

FEDERAL GOVERNMENT

Ad Hoc Reviewer, National Institute of Aging

Neuropathologist and Neurologist, Workshops for the Diagnosis of Progressive Supranuclear Palsy, NINDS, Neuroepidemiology Branch, 1993, 1994, 1996

Vascular Cognitive Impairment Harmonization Criteria Workshop I – Sponsored by the NINDS, Canadian Stroke Network, Canadian Institute of Health Research, Alzheimer’s Association, and NIH Office of Rare Diseases, April 24–27, 2005.

Vascular Cognitive Impairment Harmonization Criteria Workshop II– Cell Biology of Vascular Cognitive Impairment Workshop – Sponsored by the NINDS, Canadian Stroke Network, Canadian Institute of Health Research, Alzheimer’s Association, and NIH Office of Rare Diseases, 2007

Traumatic Brain Injury Workshop, Sponsored by NIA and NIH, Bethesda MD, September 18-20, 2009

Sensory and Motor Dysfunction in Aging and Alzheimer’s Disease Workshop, Sponsored by NIA and NIH, Bethesda MD, August 8 and 9, 2010

CONGRESSIONAL TESTIMONY

October 28, 2009 Legal Issues Relating to Football Head Injuries.

<http://www.cspan.org/Watch/Media/2009/10/28/HP/A/24819/House+Judiciary+Cmte+Hearing+on+NFL+Head+Injuries.asp>

October 19, 2011 Hearing before the Senate Committee on Commerce, Science & Transportation: Detection and Treatment of Concussions in Student Athletes

<http://www.c-spanvideo.org/program/302174-1>

CURRENT SUPPORT:

1.

Title: Neuropathology Core, Boston University Alzheimer's Disease Core Center

Role in Project: Director of Neuropathology Core; Co-Investigator

Type of Grant: P30 Center Grant (N. Kowall, PI) P30-AG13846

Funding Agency: National Institute on Aging

Years Funded: 7/1/1996-6/30/2011

Total Direct Costs: \$965,065

The major goal of this project is to build a broad-based research program in Alzheimer's disease to better understand the phenomenology and pathophysiology of Alzheimers disease and related dementias, and to facilitate treatment and prevention.

2.

Title: MRI, Genetic and Cognitive Precursors of AD and Dementia

Role in Project: Co-Investigator

Type of Grant: RO1 (Phillip Wolf, PI) 2 R01 AG1649

Funding Agency: National Institute on Aging

Years Funded: 6/30/10-05/31/15

Total Direct Costs: \$825,557

The goals of the study are to relate risk factors for Alzheimer's Disease (AD) and dementia in the Framingham Offspring and Omni cohorts to changes in brain morphology measured by Magnetic Resonance Imaging (MR) and cognitive performance.

3.

Title: mTBI Brain Bank

Role in Project: PI, Boston, MA

Funding Agency: Department of Veterans Affairs

Years Funded: 9/01//2011- 8/31/2013

Total Direct Costs: \$\$1,000,000

The major goal of this project is to build a national VA brain bank to better understand the pathophysiology of mTBI.

4.

Title: Unrestricted gift- Center for the Study of Traumatic Encephalopathy

Role in Project: Co-Investigator

Type of Grant: Private Agency

Funding Agency: National Football League
Years Funded: 5/01/2010 -
Total Gift: \$1,000,000

5.

Title: **National VA Biorepository**

Role in Project: Co-investigator, Boston, MA

Type of Grant: VA National Center Grant (N. Kowall, PI)

Funding Agency: Department of Veterans Affairs

Years Funded: 8/01/2009- 7/30/2012

Total Direct Costs: \$1,226,000

The major goal of this project is to build a national brain bank to better understand the phenomenology and pathophysiology of ALS.

6. Title: Gulf War Illness VA Biorepository

Role in Project: Co-investigator

Type of Grant: VA National Center Grant

Funding Agency: Veterans Administration, U.S. Government

Years Funded: 4/01/2011-3/31/2014

Total Direct Costs: \$1,700,000

PENDING SUPPORT

1.

VA Merit proposal:

Title: Axonal Injury and Tau Pathology following Blast mTBI in OEF/OIF Veterans

Role in Project: Ann McKee, PI

Type of Grant: VA Merit

Funding Agency: Veterans Administration, U.S. Government

Years Funded: 6/01/2011-5/31/2014

Total Direct Costs: \$1,000,000

Program: Tau protein and biomarkers in blast TBI

2. BAA proposal

Title: Mechanisms of Suicidality and Neurodegeneration in CTE

Role in Project: Ann McKee, PI

Type of Grant: Broad Agency Announcement

Funding Agency: U.S. Army Research Laboratory, DOD

Years Funded: 6/01/2012-5/31/2014

Total Direct Costs: \$2,000,000

Research proposal focused on human pathology of acute mTBI and CTE in individuals exposed to military-related blast and concussive injury, and determining the relationship between axonal injury and inflammation to affective dysregulation, executive dysfunction and suicidality.

3. BAA proposal

Title: TDP-43, Axonal injury and Microhemorrhage in TBI

Role in Project: Ann McKee, Co-PI; Lee Goldstein, MD, PhD, Co-PI

Type of Grant: Broad Agency Announcement

Funding Agency: U.S. Army Research Laboratory, DOD

Years Funded: 6/01/2012-5/31/2014

Total Direct Costs: \$2,000,000

Translational research proposal focused on axonal injury and microhemorrhage in mild TBI, diagnostics and therapeutics

4. Title: Post-traumatic Stress Disorder VA Biorepository

Role in Project: Site PI, Bedford MA

Type of Grant: VA National Center Grant

Funding Agency: Veterans Administration, U.S. Government

Years Funded: 4/01/2011-3/31/2014

Total Direct Costs: \$1,700,000

PAST SUPPORT

1.

Title: Neuropathological and Clinical Consequences of Repetitive Concussion in Athletes

Role in Project: Co-PI (Robert Stern, Co-PI)

Type of Grant: Private Foundation

Funding Agency: National Operating Committee on Standards for Athletic Equipment (NOCSAE)

Years funded: 2/1/2009-5/1/2011

Total Direct Costs: \$249,997

To establish a living brain donation registry, conduct neuropathological examinations, and collect pilot clinical research data, investigating the long-term consequences of repetitive head trauma in athletes.

2.

Title: Epidemiology of Dementia in the Framingham Study

Role in Project: Co-Investigator

Type of Grant: P30 Center Grant (Phillip Wolf, PI) 5 R01 AG08122

Funding Agency: National Institute on Aging

Years Funded: 1/1/89-5/31/2010

Total Direct Costs: \$631,824

Ongoing surveillance of the Framingham Study participants will determine the incidence and type of dementia in persons in the 9th through the 11th decades of life, the oldest old.

3.

Title: Neuropathologic Examination of Traumatic Encephalopathy in Athletes with Histories of Repetitive Concussion

Role in Project: Co-PI (Robert Stern Co-PI)

Type of Grant: Supplement to Boston University Alzheimer's Disease Center

Funding Agency: NIA

Years Funded: 7/1/2008-6/30/2009

Total Direct Costs: \$100,000

To establish a brain bank, brain donation program, and clinical research program, investigating the long-term consequences of repetitive concussions.

3.

Title: Development of Minimal Diagnostic Criteria for Chronic Traumatic Encephalopathy

Role in Project: Co-PI (Robert Stern Co-PI)

Type of Grant: Supplement to Boston University Alzheimer's Disease Center

Funding Agency: NIA

Years Funded: 7/1/2009-6/30/2010

Total Direct Costs: \$100,000

To develop minimal diagnostic neuropathological criteria for Chronic Traumatic Encephalopathy

4.

Title: Establishment of the Center for the Study of Traumatic Encephalopathy

Role in Project: Co-PI (Robert Stern Co-PI)

Type of Grant: BU Internal Funding

Funding Agency:

Years Funded: 7/1/2008-6/30/2009

Total Direct Costs: \$55,000

A formal collaboration with the non-profit Sports Legacy Institute (SLI) establishing the Center for the Study of Traumatic Encephalopathy (CSTE). The Center, jointly located at Boston University School of Medicine (BUSM) and the Edith Nourse Rogers Memorial Veterans Hospital, for studying Chronic Traumatic Encephalopathy (CTE).

5.

Title: Role of Somatic mtDNA Mutations in Late-Onset Neurodegeneration

Role in Project: Co-Investigator

Type of Grant: RO1, Konstantin Khrapko, PI R01 ES11343

Funding Agency: NINDS

Years Funded: 6/1/01 - 5/31/06

6.

Title: Tau Hyperphosphorylation in Alzheimer's Disease

Role in Project: Ann McKee, PI

Type of Grant: Merit Award

Funding Agency: Veterans Administration, U.S. Government

Years Funded: 2/1/94 - 1/31/99

Total Direct Costs: \$650,000

7.

Title: Microtubule Reorganization in Alzheimer's Disease

Role in Project: Ann McKee, PI, KO8 NS 01368

Type of Grant: Career Investigator Development Award

Funding Agency: National Institute of Neurological and Communicative Disorders and Stroke

Years Funded: 7/01/89- 6/30/94

Total Direct Costs: \$500,000

INVITED LECTURES AND PRESENTATIONS (last 2 years)

- 1996 - present *Cognitive and Behavioral Neurology: Focus on Dementia, Harvard Medical School CME course, "Neuropathology of Dementia," Annual Course, Boston MA.*
- April 24, 2009 *Chronic Traumatic Encephalopathy, Concussion and Athlete Conference, Franklin Pierce University, Rindge, NH*
- May 1, 2009 *Chronic Traumatic Encephalopathy, Sixth Annual Sports-Related Conference on Concussion and Spine Injury, Harvard Medical School CME course, Fenway Park, Boston MA*
- May 19th, 2009 *Chronic Traumatic Encephalopathy in Athletes, National Football League, Mild Traumatic Brain Injury Committee, New York, NY*
- September 18, 2009 *Chronic Traumatic Encephalopathy: Progressive tauopathy following repetitive head injury. Traumatic Brain Injury Workshop, Sponsored by NIA and NIH, Bethesda MD*
- September 24, 2009 *Recent findings in professional and non-professional football players, Harvard Faculty Club Breakfast Meeting, Harvard Club, Boston MA*
- September 29, 2009 *Chronic Traumatic Encephalopathy in Athletes, Physicians of the Middlesex Central District of the Massachusetts Medical Society, Emerson Hospital, Concord MA*
- October 2, 2009 *Chronic Traumatic Encephalopathy in Athletes, Boston University School of Medicine CME course, Concussion and the Athlete conference, Gillette Stadium, Foxborough, MA*
- October 16, 2009 *Traumatic Encephalopathy, American Association of Professional Ringside Physicians, Mohegan Sun, Uncasville, CT*
- January 10, 2010 *Chronic Traumatic Encephalopathy, Eastern Athletic Trainer's Association, Copley Marriot, Boston MA*
- January 26, 2010 *Center for the Study of Chronic Traumatic Encephalopathy, National Football League Players' Association TBI committee, The Breakers, Palm Beach, FL*
- February 25, 2010 *Chronic Traumatic Encephalopathy, an update. Roxbury Society for Medical Improvement, The Country Club, Brookline, MA.*
- March 6-10, 2010 *Chronic Traumatic Encephalopathy in Athletes: the role of axonal pathology, 2010 Marian Kies colloquium, Indicators of axonal pathology in the CNS, American Society of Neurochemistry, Santa Fe, NM*
- March 30, 2010 *Chronic Traumatic Encephalopathy. Blythe Memorial Lecture, University of North Carolina Medical Center, Chapel Hill, North Carolina*

- April 12, 2010 *Chronic Traumatic Encephalopathy: What we have learned from athletes.* University of Massachusetts, Lowell Campus, Research Seminar, Lowell, MA
- April 15 2010 *What is so Special about our Brain?* Community Action Council, Community Center, Roxbury MA
- April 22, 2010 *Chronic Traumatic Encephalopathy: What we have learned from athletes.* Keynote speaker in Traumatic Brain Injury: Implications for Sport and Health University of Baltimore School of Law and its Center for Sport and the Law, Baltimore MD
- April 27, 2010 *Chronic Traumatic Encephalopathy: What we have learned from athletes and soldiers.* VA Research Day, West Roxbury VAMC, West Roxbury, MA
- May 14, 2010 *Chronic Traumatic Encephalopathy*, Seventh Annual Sports-Related Conference on Concussion and Spine Injury, *Harvard Medical School CME course*, Fenway Park, Boston MA
- June 2, 2010 *Chronic Traumatic Encephalopathy: a distinct pathological entity associated with head injuries.* NFL- Johns Hopkins Conference on Head Injuries in Football, Baltimore MD
- June 8, 2010 *Chronic Traumatic Encephalopathy: a distinct pathological entity associated with head injuries.* Massachusetts Neuropsychology Society, Keynote Speaker, Brookline MA
- July 21, 2010 *Chronic Traumatic Encephalopathy.* Keynote Speaker MacFarlane Conference on Brain Injury, Little Rock, Arkansas
- August 1, 2010 *Chronic Traumatic Encephalopathy: What we have learned from athletes* New Jersey Athletic Trainers Association, Princeton, NJ
- August 8, 2010 *The Neuropathology of Preclinical Alzheimer's Disease: The Role of the Visual Association Cortex and the Lens.* Sensory and Motor Dysfunction in Aging and Alzheimer's Disease Workshop, Sponsored by NIA and NIH, Bethesda MD
- August 26, 2010 *The Long Term Sequelae of Traumatic Brain Injury - What we've learned from athletes: Chronic Traumatic Encephalopathy.* Private presentation to Secretary Shinseki, Bedford VAMC, Bedford MA
- August 30, 2010 *The Long-term Sequelae of Mild Traumatic Brain Injury.* DBVIC. Military TBI Training Conference, Washington DC

- August 31, 2010 *The Long Term Sequelae of Traumatic Brain Injury - What we've learned from athletes: Chronic Traumatic Encephalopathy.* Private presentation to General Chiarelli, Vice Chief of Staff U.S Army, Pentagon, Washington, D.C.
- September 10, 2010 *Major Consequences of Invisible Brain Injury* University of California, San Francisco Neurology Grand Rounds, San Francisco, CA
- September 21, 2010 *The Invisible Injury: Mild TBI, Major Consequences.* Annual Keynote Speaker for Alzheimer's Day, Sponsored by the Department of Biochemistry Boston University School of Medicine, Boston MA
- October 1, 2010 *Long-Term Effects of Repetitive Concussive and Subconcussive Brain Trauma: Chronic Traumatic Encephalopathy (CTE)* Head Trauma and the Athlete Conference, Waltham, MA
- October 1, 2010 *Chronic Traumatic Encephalopathy: What we have learned from athletes* Wisconsin Psychiatric Association Meeting, Green Bay WI
- October 19, 2010 *The Science of Repetitive Head Trauma (Sub-Concussive Events): Chronic Traumatic Encephalopathy (CTE)* Ice Hockey Concussion Summit. Mayo Clinic Rochester, MN
- October 29, 2010 *The Long Term Sequelae of Traumatic Brain Injury - What we've learned from athletes: Chronic Traumatic Encephalopathy.* Private presentation to Rear Admiral Christine Hunter Deputy Director TRICARE Management Activity, Boston University School of Medicine, Boston MA
- November 3, 2010 *Decoding the True Impact of Repetitive Brain Trauma/ Chronic Traumatic Encephalopathy/ Encephalomyelopathy* Boston University Alumni Association Breakfast Meeting with President Robert Brown, Standard Club, Chicago IL
- November 15, 2010 *The Neuropathological Substrate of MCI.* Boston University Alzheimer's Disease Symposium on Mild Cognitive Impairment, Hebert Lounge, BUSM, Boston, MA
- November 16, 2010 *Our Brain in Aging and Disease,* Community Action Council, 12th Baptist Church, Roxbury MA
- December 3, 2010 *Chronic Traumatic Encephalopathy: What we have learned from athletes* Marshfield Clinic Grand Rounds, Marshfield, WI
- December 16, 2010 *Mild TBI, Major Consequences: Chronic Traumatic Encephalopathy/ Encephalomyelopathy.* Walter Reed Army Hospital. Bethesda MD
- December 30, 2010 *Chronic Traumatic Encephalopathy: What we have learned from athletes.* Boston Museum of Science featured talk. Boston, MA

- February 3, 2011 *Chronic Traumatic Encephalopathy: What we have learned from athletes* International Neuropsychological Society Meeting, Boston, MA
- February 4, 2011 Sports-Related Brain Injury Panel Lecture, Nebraska Wesleyan University, Lincoln, NE
- February 5, 2011 *Chronic Traumatic Encephalopathy: What we have learned from athletes* Mild Traumatic Brain Injury: Challenges and Controversies in Research Conference, Toronto Rehabilitation Center, Toronto ON
- February 15, 2011 *Major Consequences of Invisible Brain Injury: Chronic traumatic encephalopathy and encephalomyelopathy.* University of Massachusetts Grand Rounds, Worcester, MA
- March 3, 2011 Harold Alfond Sports Medicine Lecture, University of New England Biddeford Maine
- March 16, 2011 *Chronic Traumatic Encephalopathy* The Regeneration of Brain Synapses: Science, Implications and Opportunities Conference, Bethesda, MD
- March 30, 2011 *Chronic Traumatic Encephalopathy: What we have learned from athletes* University of New Mexico Grand Rounds, Albuquerque, NM
- April 15, 2011 *The Pathology of Chronic Traumatic Encephalopathy* Cumulative Sports Concussion and Risk of Dementia American Academy of Neurology Annual Meeting, Honolulu, HI
- April 17, 2011 I. *Acute Concussive and Subconcussive injury* II. *Chronic Traumatic Encephalopathy: What we have learned from athletes* Traumatic Brain Disorders - Neurobehavioral Assessment and Management Conference, Columbus, OH
- April 29, 2011 University of Edinboro Concussion Conference, Edinboro, PA
- May 11, 2011 *Chronic Traumatic Encephalopathy: Your brain on football.* Keynote speaker, Christ Medical Center Neurosciences Institute, Oak Lawn, IL
- June 19, 2011 *Chronic Traumatic Encephalopathy* National Athletic trainers Association Annual Meeting, New Orleans, LA
- June 23, 2011 Suna Kırac Conference on Neurodegeneration, ALS-IST 2011: *Recent Themes in Motor Neuron Biology and Neurodegeneration*, Istanbul, Turkey
- July 12, 2011 *Chronic Traumatic Encephalopathy* International Symposium on Brain Injury in Children Conference, Hospital for Sick Children, Toronto, ON
- August 16, 2011 *Traumatic Brain Injury* Neurobiology of Brain Dysfunction, Marine Biological Laboratory, Woods Hole, MA

- August 22, 2011 *The Long-term Sequelae of Mild Traumatic Brain Injury.* DVBIC. Military TBI Training Conference, Washington DC
- September 8, 2011 NIH ALS Conference: Clinical Research to Find the Pathogenesis and Cause of ALS, Tarrytown New York
- September 21, 2011 *Chronic Traumatic Encephalopathy* Institute for Memory Impairments and Neurological Disorders Frontiers of the MIND Keynote Speaker, University of California Irvine, CA
- September 24, 2011 *Chronic Traumatic Encephalopathy: What we have learned from athletes* Neurotrauma Research Day, University of British Columbia
- October 6, 2011 Capitol Hill briefing on TBI, sponsored by the Dana Foundation and the AAAS, Rayburn Office building
- October 7, 2011 *Chronic Traumatic Encephalopathy: What we have learned from athletes* Stroke Rehab Center Conference, Inova Mount Vernon Hospital, Alexandria, VA
- October 21, 2011 *Chronic Traumatic Encephalopathy: What we have learned from athletes* Neurology Grand Rounds, Temple University, Philadelphia, PA
- October 21, 2011 *Recurrent Athletic mTBI, Cerebral Tauopathy, and Chronic Traumatic Encephalopathy* Seventh Annual Lachman Series, Pennsylvania Orthopedic Society, Philadelphia, PA
- October 28, 2011 *Long-Term Effects of Repetitive Concussive and Subconcussive Brain Trauma: Chronic Traumatic Encephalopathy (CTE)* Head Trauma and the Athlete Conference, Framingham, MA
- October 29, 2011 *Mild Traumatic Brain Injury and Chronic Traumatic Encephalopathy: What we have learned from athletes* Annual Education Conference, Brain Injury Association of Illinois, Oakbrook, IL
- November 2, 2011 Sports Injury and Alzheimer's disease: Is there a Connection? Rhode Island Alzheimer's Association Lecture, Providence, RI
- November 3, 2011 Gabriele Zu Rhein Lectureship in Neuropathology, University of Wisconsin at Madison
- November 16, 2011 *Chronic Traumatic Encephalopathy* President's Lecture Series on Health, Regis College, Wellesley, MA
- November 20, 2011 *Chronic Traumatic Encephalopathy: What we have learned from athletes* University of Toronto Department of Laboratory Medicine and Pathobiology Neuropathology Day, Toronto, ON
- December 1, 2011 *The Long-term Consequences of Repetitive Concussion*, Boston University Academy, Boston MA

- January 7, 2012 *Chronic Traumatic Encephalopathy* Eastern Athletic trainers Association Annual Meeting, New Orleans, LA
- February 16, 2012 *Chronic Traumatic Encephalopathy: What we have learned from athletes* Neurology Grand Rounds, University of Pennsylvania, Philadelphia, PA
- February 22, 2012 *Chronic Traumatic Encephalopathy: What we have learned from athletes* Neuroscience and Behavior Program, University of Massachusetts, Amherst, MA
- February 27, 2012 *Chronic Traumatic Encephalopathy: What we have learned from athletes* Keystone Symposium, Clinical and Molecular Biology of Traumatic Brain Injury and Post-Traumatic Stress Disorder, Keystone, CO
- March 5, 2011 *The Long-term Consequences of Repetitive Concussion*, Appleton High School East, Appleton Wisconsin

BIBLIOGRAPHY

ORIGINAL, PEER REVIEWED ARTICLES:

1. **McKee AC**, Winkelman MD, Banker BQ: Central pontine myelinolysis in severely burned patients: relationship to serum hyperosmolality. *Neurology* 1988; 38: 1211-7.
2. Ogilvy CS, **McKee AC**, Newman NJ, Donnelly SM, Kiwak KJ: Embolism of cerebral tissue to the lungs: a report of 2 cases and review of the literature. *Neurosurgery*, 1988; 23: 511-6
3. **McKee AC**, Kowall NW, Kosik KS: Microtubular reorganization and dendritic growth response in Alzheimer's disease. *Annals of Neurology*, 1989; 26:652-9.
4. **McKee AC**, Kowall NW, Kosik KS: Hippocampal neurons predisposed to neurofibrillary tangle formation are enriched in type II Ca/calmodulin-dependent protein kinase. *J Neuropathol Exp Neurol*, 1990; 49: 49-63.
5. Newman NJ, Bell IR, **McKee AC**: Paraneoplastic limbic encephalitis: neuropsychiatric presentation. *Biol Psych*, 1990; 27: 529-42.
6. Thulborn KR, Sorensen AG, Kowall NW, **McKee AC**, Lai A, McKinstry RC, Moore J, Rosen BR, Brady TJ: Biochemical correlation of the magnetic resonance appearance of experimentally induced cerebral hemorrhage in the rat. *Amer J Neuroradiology*, 1990; 11: 291-7.
7. **McKee AC**, Levine D, Kowall NW, Richardson EP: Peduncular hallucinosis associated with isolated infarction of medial substantia nigra pars reticulata. *Annals of Neurology*, 1990; 27: 500-4.
8. **McKee AC**, Kosik KS, Kowall NW: Neuritic pathology and dementia in Alzheimer's disease. *Annals of Neurology*, 1991; 30: 156-65

9. Mikulis DJ, Ogilvy CS, **McKee AC**, Davis KR, Ojemann RG: Serial MR imaging in a case of distal spinal cord and conus medullaris infarction due to fibrocartilagenous emboli. *Amer J Neuroradiology*, 1992;13:155-60.
10. Kowall NW, **McKee AC**, Yankner BA, Beal MF: In vivo neurotoxicity of beta amyloid [β (1-40)] and the β (25-35) fragment. *Neurobiol Aging*, 1992; 13:537-542.
11. Markesbery W, Kosik KS, Kowall NW, **McKee AC**: Morphometric image analysis of neuropil threads in Alzheimer's disease. *Neurobiol Aging*, 1993; 14 (4): 303-7.
12. Nihei K, **McKee AC**, Kowall NW. Patterns of neuronal degeneration in the motor cortex of amyotrophic lateral sclerosis patients. *Acta Neuropathol*, 1993; 86 (1): 55-64.
13. Hauw JJ, Daniel SE, Dickson D, Horoupian DS, Jellinger K, Lantos PL, **McKee AC**, Tabaton M, Litvan I. Preliminary NINDS Neuropathological Criteria for Steele-Richardson-Olszewski Syndrome (Progressive Supranuclear Palsy). *Neurology*; 1994, 44(11): 2015-9.
14. Corral-Debrinski M, Horton T, Lott MT, Shoffner JM, **McKee AC**, Beal MF, Graham BH, Wallace DC. Marked changes in mitochondrial DNA deletion levels in Alzheimer's brains. *Genomics* 1994 23 (2): 471-6.
15. VonSattel JP, Aizawa H, Ge P, DiFiglia M, **McKee AC**, MacDonald M, Gusella J, Landwehrmeyer B, Bird ED, Richardson EP, Hedley-Whyte ET. An improved method to prepare human brains for research. *J Neurol Exp Neuropathol*, 1995, 54: 42-57.
16. Farrer LA, Abraham CR, Volicer L, Foley EJ, Kowall NW, **McKee AC**, Wells JM. Allele E4 of apolipoprotein E shows a dose effect on age at onset of Pick disease. *Exp Neurol*, 1995, 136, 162-170.
17. Litvan I, Agid Y, Jankovic J, Goetz C, Brandel JP, Lai EC, Wenning G, D'Olhaberriague L, Verny M, Chaudhuri KR, **McKee A**, Jellinger K, Bartko JJ, Mangone CA, Pearce RKB. Accuracy of clinical criteria for the diagnosis of progressive supranuclear palsy (Steele-Richardson-Olszewski). *Neurology* 1996, 46: 922-930.
18. Litvan I, Hauw JJ, Bartko JJ, Lantos PL, Daniel SE, Horoupian DS, **McKee AC**, Dickson D, Bancher C, Tabaton M, Jellinger K, Anderson DW. Accuracy of the neuropathological diagnosis of neurodegenerative disorders with extrapyramidal features. *J. Neuropath Exp Neurology* 1996, 55, 97-105.
19. Litvan I, DeLeo JM, Hauw JJ, Daniel SE, Jellinger K, **McKee A**, Dickson D, Horoupian DS, Lantos PL, Tabaton M. What Can Artificial Networks Teach Us About Neurodegenerative Disorders With Extrapyramidal Features? *Brain* 1996, 119: 831-839.
20. Litvan I, Agid Y. Goetz C, Jankovic J, Wenning G, Brandel JP, Lai EC, Verny M, Chaudhuri KR, **McKee A**, Jellinger K, Pearce RKB, Bartko JJ. Accuracy of the clinical diagnosis of corticobasal degeneration: a clinicopathological study. *Neurology* 1997, 48: 119-125.
21. Litvan I, Goetz CG, Jankovic J, Wenning GK, Booth V, Bartko JJ, **McKee A**, Jellinger K, Lai EC, Brandel J-P, Verny M, Chaudhuri R, Pearce RKB, Agid Y. What is the accuracy of the

clinical diagnosis of Multiple System Atrophy? A clinicopathological study. Arch Neurol 1997, 54:937-944.

22. Litvan I, Campbell G, Mangone CA, Verny M, **McKee A**, Chaudhuri KR, Jellinger K, Pearce RKB, D'Olhaberriague L. Which clinical features differentiate progressive supranuclear palsy (Steele-Richardson-Olszewski syndrome) from related disorders? A clinicopathological study. Brain 1997, 120:65-74.

23. Litvan I, Agid Y, Sastrj N, Jankovic J, Wenning GK, Goetz CG, Verny M, Brandel J-P, Jellinger K, Chaudhuri R, **McKee A**, Lai EC, Pearce RKB, Bartko JJ. What are the obstacles for an accurate diagnosis of Pick's disease? A clinicopathological study. Neurology 1997, 49: 62-69.

24. **McKee AC**, Kowall NW, Schumacher JS, Beal MF. The neurotoxicity of amyloid beta protein in aged primates. Amyloid, 1998, 5: 1-9.

25. Litvan I, Booth V, Wenning GK, Bartko JJ, Goetz CG, **McKee A**, Jankovic J, Jellinger K, Lai EC, Brandel JP, Verny M, Chaudhuri KR, Pearce RKB, Agid Y. Retrospective application of a set of clinical diagnostic criteria for the diagnosis of multiple system atrophy. J Neural Transm 1998 105: 217-228.

26. Litvan I, MacIntyre A, Goetz CG, Wenning GK, Jellinger K, Verny M, Bartko JJ, Jankovic J, **McKee A**, Brandel JP, Chaudhuri KR, Lai EC, D'Olhaberriague L, Pearce RKB, Agid Y. Accuracy of the clinical diagnoses of Lewy Body disease, Parkinson disease, and Dementia with Lewy Bodies. A clinicopathological study. Arch Neurol 1998, 5: 969-978.

27. Wenning GK, Litvan I, MacIntyre A, Goetz CG, Wenning Jellinger K, Verny M, Bartko JJ, Jankovic J, **McKee A**, Brandel JP, Chaudhuri KR, Lai EC, D'Olhaberriague L, Pearce RKB, Agid Y. Natural history and survival of 14 patients with corticobasal degeneration confirmed at post-mortem examination. J Neurol Neurosurg Psych 1998 64: 184-9.

28. **McKee A**. Neuropathology and brain banking: basic science methods. . Alzheimer Dis Assoc Dis. 1999, 13, suppl 1:S39-S44.

29. Litvan I, **McKee A**. Clinicopathologic Case Report. J Neuropsych Clin Neurosci. 1999, 11:107- 112.

30. Wenning GK, Ebersbach G, Verny M, Chaudhuri KR, Jellinger K, **McKee A**, Poewe W, Litvan I. Progression of falls in postmortem confirmed parkinsonian disorders. Mov Dis, 1999, 14: 947-50.

31. Volicer L, Wells JM, **McKee AC**, Kowall NW. Enhanced inhibition of free radical-induced deoxyribose breakdown by Alzheimer brain homogenates. Neurosci Lett 1999; 270:169-72.

32. Hanlon EB, Itzkan I, Dasari R, Feld MS, Ferrante RJ, McKee AC, Lathi D, Kowall NW. Near-infrared fluorescence spectroscopy detects Alzheimer's disease *in vitro*. Photochem and Photobiol, 1999, 70: 236-242.

33. Litvan I, Grimes DA, Lang AE, Jankovic J, **McKee A**, Verny M, Jellinger K, Chaudhuri KR, Pearce RKB. Clinical features differentiating patients with postmortem progressive supranuclear palsy and corticobasal degeneration. J Neurol, 1999;246 [suppl 2]:II/1-II/5.

34. Chung TF, Sipe JD, **McKee A**, Fine RE, Scheiber BM, Liang JS, Johnson RJ. Serum amyloid A in Alzheimer's disease brain is predominantly localized to myelin sheaths and axonal membrane. *Amyloid* 2000; 7: 105-110.
35. Kowall NW, Hantaye P, Brouillet E, Beal MF, **McKee AC**, Ferrante RF. MPTP induces alpha-synuclein aggregation in the substantia nigra of baboons. *Neuroreport* 2000, 11:1-3.
36. Muller J, Wenning GK, Jellinger K, **McKee A**, Poewe W, Litvan I. Progression of Hoehn and Yahr stages in Parkinsonian disorders: a clinicopathologic study. *Neurology*. 2000 Sep 26; 55(6): 888-91.
37. Muller J, Wenning G, Verny M, **McKee A**, Chaudhuri R, Poewe W, Litvan I. Progression of dysarthria and dysphagia in post-mortem-confirmed Parkinsonian disorders. *Arch Neurol* 2001; 58: 259-264.
38. Volicer L, **McKee AC**, Hewitt S. Dementia. *Neurology Clinics* 2001, 19: 867- 885.
39. Harper DG, Stopa EG, McKee AC, Satlin A, Harlan PC, Goldstein R, Volicer L. Differential circadian rhythm disturbances in men with Alzheimer disease and frontotemporal degeneration. *Arch Gen Psych* 2001; 58(9): 353-60.
40. Georgopoulos S, **McKee A**, Kan HY, Zannis VI. Generation and characterization of two transgenic mouse lines expressing human ApoE2 in neurons and glial cells. *Biochemistry*. 2002 Jul 30; 41(30): 9293-301.
41. Gao W, Eisenhauer PB, Conn K, Lynch JA, Wells JM, Ullman MD, **McKee A**, Thatte HS, Fine RE. (2004) Insulin degrading enzyme is expressed in the human cerebrovascular endothelium and in cultured human cerebrovascular endothelial cells. *Neurosci Lett*. 371 (1): 6-11
42. Conn K, Gao W, **McKee A**, Lan MS, Ullman MD, Eisenhauer PB, Fine R and Wells JM. (2004) Identification of the protein disulfide isomerase family member PDIP in experimental Parkinson's disease and Lewy Body Pathology, *Brain Res*. 1022 (1-2):164-72
43. Yip AG, **McKee AC**, Wells J, Green RC, Young H, Cupples A, Farrer LA. ApoE, vascular pathology, and the AD brain. *Neurology*, 2005; 65:259-265.
44. Wolozin B, Manger J, Bryant R, Cordy J, Green RC, **McKee A**. Re-assessing the relationship between cholesterol, statins and Alzheimer's disease. *Acta Neurol Scand Suppl*. 2006; 185:63-70.
45. Lynch JA, George AM, Eisenhauer PB, Conn K, Gao W, Carreras I, Wells J, **McKee A**, Ullman D, Fine RE. Insulin degrading enzyme is localized predominantly in the cell surface of polarized and unpolarized human cerebrovascular endothelial cultures. *J Neurosci Res*. 2006 May 15; 83(7): 1262-70.
46. Kraytsberg Y, Kudryavtseva E, **McKee AC**, Geula C, Kowall NW, Krapko K. Mitochondrial DNA deletions are abundant and cause functional impairment of select human substantia nigra neurons. *Nature Genetics*, 2006 May; 38(5): 518-20.

47. **McKee, AC**, Au R, Cabral HJ, Kowall NW, Seshadri, S, Kubilus C, Drake J, Wolf P. Visual Association Pathology in Preclinical AD. *Journal Neuropath Exp Neurol* June; 65(6): 621-630.
48. Tobin JE, Cui J, Wilk J, Latourelle J, Laramie J, **McKee A**, Guttman M, Karamohamed S, DeStefano A, Myers R. Sepiapterin reductase expression is increased in Parkinson's disease brain tissue *Brain Research* 2007, 1140, 42-44.
49. **McKee AC**, Carreras I, Hossain L, Ryu H, Klein W, Oddo S, LaFerla F, Jenkins B, Kowall N, Dedeoglu A. Ibuprofen reduces intraneuronal A β , prevents hyperphosphorylated tau and ameliorates cognitive deficits in young triple transgenic Alzheimer mice, *Brain Research*, 2008 May 1; 1207: 225-36.
50. Harper DG, Stopa EG, Kuo-Leblanc V, **McKee A**, Asayama K, Volicer L, Kowall N, Saitlin A. Dorsomedial SCN neuronal subpopulations subserve different functions in human dementia. *Brain* 2008, Jun; 131(Pt 6): 1609-17.
51. Hanlon EB, Perelman LT, Vitkin EI, Greco FA, **McKee AC**, Kowall NW. Scattering differentiates Alzheimer disease in vitro. *Opt Lett* 2008, 15:33 (6): 624--26.
52. T Cuenco K, Lunetta KL, Baldwin CT, **McKee AC**, Guo J, Cupples LA, Green RC, St George-Hyslop PH, Chui H, DeCarli C, Farrer LA; MIRAGE Study Group. Association of distinct variants in SORL1 with cerebrovascular and neurodegenerative changes related to Alzheimer disease. *Arch Neurol*. 2008 Dec; 65(12): 1640-8.
53. Decano JL, Viereck JC, **McKee AC**, Hamilton JA, Ruiz-Opazo N, Herrera VL. Early-life sodium exposure unmasks susceptibility to stroke in hyperlipidemic, hypertensive heterozygous Tg25 rats transgenic for human cholesteryl ester transfer protein. *Circulation*. 2009 Mar 24; 119(11): 1501-9.
54. **McKee AC**, Cantu RC, Nowinski CJ, Hedley-Whyte ET, Gavett BE, Budson AE, Santini VE, Lee H-Y, Kubilus CA, Stern RA. Chronic Traumatic Encephalopathy in Athletes: Progressive Tauopathy following Repetitive Head Injury. *J Neuropath Exp Neurol*, 2009 68(7): 709-735.
55. Yamin R, Zhao C, O'Connor PB, **McKee AC**, Abraham CR. Acyl peptide hydrolase degrades monomeric and oligomeric amyloid-beta peptide. *Mol Neurodegener*. 2009 Jul 23; 4(1): 33.
56. Mastroeni D, **McKee A**, Grover A, Rogers J, Coleman PD. Epigenetic differences in cortical neurons from a pair of monozygotic twins discordant for Alzheimer's disease. *PLoS One*. 2009 Aug 12; 4(8): e661.
57. Van Deerlin V, Sleiman P, Martinez-Lage M, Chen-Plotkin A, Wang L, Graff-Radford N, Dickson D ... **McKee A**... Lee VM. (GWAS study) Common genetic variants at 7p21 show strong association with frontotemporal lobar degeneration with TDP-43 inclusions. *Nature Gen*, 2010, Mar; 42(3): 234-9.
58. Jun G, Naj AC, Beecham GW, Wang LS, Buross J, Gallins PJ, Buxbaum JD, Ertekin-Taner N, Fallin MD, Friedland R, Inzelberg R, Kramer P, Rogava E, St George-Hyslop P;

Alzheimer's Disease Genetics Consortium, Cantwell LB, Dombroski BA, Saykin AJ, Reiman EM, Bennett DA, Morris JC, Lunetta KL, Martin ER, Montine TJ, Goate AM, Blacker D, Tsuang DW, Beekly D, Cupples LA, Hakonarson H, Kukull W, Foroud TM, Haines J, Mayeux R, Farrer LA, Pericak-Vance MA, Schellenberg GD. Meta-analysis confirms CR1, CLU, and PICALM as Alzheimer disease risk loci and reveals interactions with APOE genotypes. *Arch Neurol*. 2010 Dec; 67(12): 1473-84.

59. **McKee A**, Gavett B, Stern R, Nowinski C, Cantu R, Kowall N, Perl D, Hedley-Whyte E, Price B, Sullivan C, Morin P, Lee H-S, Kubilus C, Daneshvar D, Wulff M, Budson A. TDP-43 Proteinopathy and Motor Neuron Disease in Chronic Traumatic Encephalopathy, *Journal Neuropathol Exp Neurol*, 2010, 69: 918-929.

Authors' reply: **McKee AC**, Budson AE, Gavett BE, Stern RA, Daneshvar D, Nowinski CJ, Cantu RC, Kowall NW, Perl DP, Hedley-Whyte ET. *J Neuropathol Exp Neurol*. 2011 Jan; 70(1): 98-100.

60. Liu-Yesucevitz L, Bilgutay A, Zhang YJ, Vanderwyde T, Citro A, Mehta T, Zaarur N, **McKee A**, Bowser R, Sherman M, Petrucelli L, Wolozin B. Tar DNA binding protein-43 (TDP-43) associates with stress granules: analysis of cultured cells and pathological brain tissue. *PLoS One*. 2010 Oct 11; 5(10): e13250.

61. Lee J, Kosaras B, Del Signore SJ, Cormier K, **McKee A**, Ratan RR, Kowall NW, Ryu H. Modulation of lipid peroxidation and mitochondrial function improves neuropathology in Huntington's disease mice. *Acta Neuropathol*. 2011 Apr;121(4):487-98.

62. Sullivan CP, Berg EA, Elliott-Bryant R, Fishman JB, **McKee AC**, Morin PJ, Shia MA, Fine RE. Pyroglutamate-A β 3 and 11 colocalize in amyloid plaques in Alzheimer's disease cerebral cortex with pyroglutamate-A β 11 forming the central core. *Neurosci Lett*. 2011 Nov 14;505(2):109-12.

63. Saman S, Kim W, Raya M, Visnick Y, Miro S, Saman S, Jackson B, **McKee AC**, Alvarez VE, Lee NC, Hall GF. Exosome-associated Tau Is Secreted in Tauopathy Models and Is Selectively Phosphorylated in Cerebrospinal Fluid in Early Alzheimer Disease. *J Biol Chem*. 2012 Feb 3;287(6):3842-9.

64. Stern RA, Riley DO, Daneshvar DH, Nowinski CJ, Cantu RC, **McKee AC**. Long-term consequences of repetitive brain trauma: chronic traumatic encephalopathy. *PMR*. 2011 Oct;3(10 Suppl 2):S460-7.

65. Goldstein LE, Fisher AM, Tagge CA, Zhang X-L, Velisek L, Sullivan JA, Upreti C, Kracht JM, Ericsson M, Wojnarowicz MW, Goletiani CJ, Maglakelidze GM, Casey N, Moncaster JA, Minaeva O, Moir RD, Nowinski CJ, Stern RA, Cantu RC, Geiling J, Blusztajn JK, Wolozin BL, Ikezu T, Stein TD, Budson AE, Kowall NW, Chargin D, Sharon A, Saman S, Hall GF, Moss WC, Cleveland RO, Tanzi RE, Stanton PK, **McKee AC***: Chronic Traumatic Encephalopathy in Blast-Exposed Military Veterans and a Blast Neurotrauma Mouse Model. *Sci Transl Med*. 2012 May 16;4(134):134ra60. PMID: 22593173 [PubMed - in process]

66. Au R#, Seshadri S#, Knox K, Beiser A, Himali JJ, Cabral HJ, Auerbach S, Green RC, Wolf P, **McKee AC*** The Framingham Brain Donation Program: Neuropathology Along the Cognitive Continuum Current Alzheimer Research, 2012, 9, in press.

CASE REPORTS, REVIEWS, CHAPTERS AND EDITORIALS

Editorials and Critical Reviews

1. Kosik KS, Kowall NW, **McKee AC**: Along the way to a neurofibrillary tangle: a look at the structure of tau. *Annals of Medicine*, 1989; 21: 109-12.
2. **McKee AC**: Osmotic shifts, metabolic compromise and the vulnerability of the pons. *Western J Med*, 1992; 157: 588-90.
3. Gavett, B, Stern R, Cantu R, Nowinski C, **McKee A**. Mild traumatic brain injury: A risk factor for neurodegeneration, *Alzheimer's Research and Therapy*, 2010, Jun 25; 2(3): 18.
4. Gavett B, Stern R. **McKee A**. Chronic Traumatic Encephalopathy: A Potential Late Effect of Sport-Related Concussive and Subconcussive Head Trauma. *Clinics in Sports Medicine*, 2011 Jan; 30(1): 179-88, xi.
5. Daneshvar D, Nowinski C, **McKee A**, Stern R, Cantu R. Helmets and Mouth guards: The Role of Personal Equipment in Preventing Sports Related Concussions. *Clinics in Sports Medicine*, 2011 Jan; 30(1): 145-63, x.
6. Daneshvar D, Nowinski C, **McKee A**, Cantu R. The Epidemiology of Sports-Related Concussion. *Clinics in Sports Medicine, Clin Sports Med*. 2011 Jan; 30(1): 1-17, vii.
7. Clinical appraisal of chronic traumatic encephalopathy: current perspectives and future directions. Gavett BE, Cantu RC, Shenton M, Lin AP, Nowinski CJ, **McKee AC**, Stern RA. *Curr Opin Neurol*. 2011 Dec;24(6):525-31.

Textbook Chapters:

1. **McKee AC**: Neoplasms of the Central Nervous System. In: Skarin A, ed. *Atlas of Diagnostic Oncology, 1st, 2nd, and 3rd editions* New York, New York, Gower Medical Publishing, 1990, 1996, 2009
2. Kowall NW, **McKee AC**: The histopathology of degeneration and plasticity in Alzheimer's disease. In: Seil F, ed. *Neural Injury and Regeneration*. *Advances in Neurology Series*, 1993; 59: 5-33.
3. **McKee Ann C**. The Neuropathology of Dementia. In: Budson, A ed. *Alzheimer's disease and other dementias*, *Behavioral Neuroscience Series*, 2011.

Case Reports:

1. Shillito J, **McKee AC**: Case Records of the New England Journal of Medicine, New England Journal of Medicine, 318: 1116, 1988.

2. Koroschetz W, **McKee AC**: Case Records of the New England Journal of Medicine, New England Journal of Medicine, 319: 849, 1988.
3. Caplan L, **McKee AC**: Case Records of the New England Journal of Medicine, New England Journal of Medicine, 324: 322, 1991.
4. Woods W, **McKee AC**: Case Records of the New England Journal of Medicine, New England Journal of Medicine, 326: 397, 1991.
5. Specht L, **McKee AC**: Case Records of the New England Journal of Medicine, New England Journal of Medicine, 327: 548, 1992.
6. Ropper A, **McKee AC**: Case Records of the New England Journal of Medicine, New England Journal of Medicine, 328: 1550, 1993.
7. Feldman R, **McKee AC**: Case Records of the New England Journal of Medicine, New England Journal of Medicine, 329: 1560, 1993

MEDIA PRESENTATIONS

NEW YORK TIMES

Schwarz A. 12 Athletes Leaving Brains to Concussion Study [New York Times Web site]. September 23, 2008. Available at: <http://www.nytimes.com/2008/09/24/sports/football/24concussions.html>. Accessed July 30, 2009

Schwarz A. New Sign of Brain Damage in N.F.L. [New York Times Web site]. January 28, 2009. Available at <http://www.nytimes.com/2009/01/28/sports/football/28brain.html>. Accessed July 30, 2009.

Schwarz A. "Concussion Trauma Risk Seen in Amateur Athlete" [New York Times](#), 10/21/09

Schwarz A. "In N.F.L. Fight, Women Lead the Way" [New York Times](#), 4/10/10

Video: "Redirecting the Discussion of Brain Trauma", http://www.nytimes.com/slideshow/2010/04/10/sports/20100410SPTSWOMEN_index.html?ref=football

Schwarz A. "Study Says Brain Trauma Can Mimic A.L.S." New York Times, 8/17/10
Available at: <http://www.nytimes.com/2010/08/18/sports/18gehrig.html>

THE NEW YORKER

Malcolm Gladwell: "Offensive Play: How different are dogfighting and football?"
October 19, 2009

Audio slide show:

[http://www.newyorker.com/online/multimedia/2009/10/19/091019_audiosli
deshow_football](http://www.newyorker.com/online/multimedia/2009/10/19/091019_audiosli
deshow_football)

BOSTON GLOBE

Hohler B. Major breakthrough in concussion crisis [Boston Globe website]. January 27, 2009.

Available at:

[http://www.boston.com/sports/other_sports/articles/2009/01/27/major_breakthrou
gh_in_concussion_crisis/](http://www.boston.com/sports/other_sports/articles/2009/01/27/major_breakthrou
gh_in_concussion_crisis/).

Hohler B. Warning signs on youth football head trauma [Boston Globe website]. January 28, 2009. Available at:

[http://www.boston.com/sports/schools/football/articles/2009/01/28/warnin
g_sign_on_youth_football_head_trauma/](http://www.boston.com/sports/schools/football/articles/2009/01/28/warnin
g_sign_on_youth_football_head_trauma/)

Lazar K. Parents, Doctors Prod NFL on Brain Injuries. February 2, 2010. Available at:

[http://www.boston.com/news/health/articles/2010/02/02/parents_doctors_p
l_on_brain_injuries/](http://www.boston.com/news/health/articles/2010/02/02/parents_doctors_p
l_on_brain_injuries/)

Pierce C. Bostonians of the Year - The Brainiac: Ann McKee. January 1, 2011. Available at:
[http://www.boston.com/lifestyle/articles/2011/01/02/bostonians_of_the_y
ear_ann_mckee/](http://www.boston.com/lifestyle/articles/2011/01/02/bostonians_of_the_y
ear_ann_mckee/)

AMERICAN ACADEMY OF NEUROLOGY

Henson J. Football And Progressive Brain Damage: Tom McHale Of NFL Suffered From Chronic Traumatic Encephalopathy When He Died In 2008. January 27, 2009. Available at: http://www.aan.com/news/?event=read&article_id=7154

Smith G. Does Head Trauma Cause ALS? Are Professional Athletes at Greater Risk? September 7, 2010. Available at:

http://www.aan.com/news/?event=read&article_id=9005

NEUROLOGY TODAY

Talan J. New Report Links Sports Concussion to Chronic Traumatic Encephalopathy: Athletes Pledge to Donate Tissue for Brain Bank. *Neurology Today*. 8(19): 12-13, October 2, 2008.

Talan, J. Does Concussion Cause Motor Neuron Disease? The Question Stirs Debate. *Neurology Today*. 10 (18): 1, 16-17, September 16, 2010.

SCIENCE

Holden C. The Battered Brain. October 9, 2008.

Greg Miller: A Late Hit for Pro Football Players
Science 7 August 2009 325: 670-672

PSYCHOLOGY TODAY

October 27, 2009: "Pushing Competition and Damaging Health: Making Play Offensive Football causes brain damage, yet we continue to push it."

SCIENTIFIC AMERICAN

February 24, 2011: " Brain Damage on the Playing Field"

PHILLY NEWS

Kramm, M. A rich and varied portfolio at the brain bank. May 28, 2009. Available at: http://www.philly.com/dailynews/sports/20090528_A_rich_and_varied_portfolio_in_brain_bank.html. Accessed July 30, 2009

Kramm, M. Deadly aftershocks. Repetitive head trauma might be cause of brain disease in NFL players. May 28, 2009. Available at: http://www.philly.com/dailynews/sports/20090528_DEADLY_AFTERSHOCK_S.html. Accessed July 30, 2009

NPR

Hamilton J. Sports Injuries May Cause Lasting Brain Damage NPR All Things Considered, January 30, 2009: "" featuring Dr. McKee (print and audio). Available at: <http://www.npr.org/templates/story/story.php?storyId=100071753>

Ashbrook T. Hard Hits and the NFL (On Point Radio with Tom Ashbrook). October 25, 2010. Available at: <http://www.onpointradio.org/2010/10/hard-hits-and-the-NFL>

REACH MD

ReachMD, 1/5/09, 7/06/2009: "Chronic Traumatic Encephalopathy in Elite Athletes" featuring Dr. McKee (audio)

TSN

TSN Sports Network Canada, 1/25/09: "Sports Legacy Institute CSTE on TSN" featuring Chris Nowinski, Dr. McKee, and athlete advisors Ted Johnson and Pat LaFontaine (YouTube video)

CNN

CNN.com, 1/27/09: "Dead athletes' brains show damage from concussions" featuring Dr. McKee (print and video)

CNN.com American Morning, 1/29/09: "Young athletes and concussions" featuring Dr. McKee (video)

Smith S. Did Concussions play a role in Lou Gehrig's disease? August 17, 2010. Available at: <http://www.cnn.com/2010/HEALTH/08/17/als.lou.gehrigs.concussions/index.html>

<http://www.cnn.com/2011/US/07/01/nfl.concussions.bell.rung/index.html>

CNN.com 1/29/11: Big hits, broken dreams" featuring Dr. McKee (print and video)

DAN RATHER REPORTS

Dan Rather Reports: Knocking Heads. March 3, 2009. Available on itunes.

SIRIUS RADIO

The Takeaway 10/31/09. Congress Looks Into NFL Head Trauma. When helmets aren't enough

WCVB-TV

WCVB-TV, 3/18/09: "Take An Exclusive Look Inside The Brain Bank". The segment features the BU ADC Brain Bank at the Bedford VA and commentary by Dr. **Ann McKee**, Director of the BU ADC Neuropathology Core.

60 MINUTES

Simon B. "A Blow to the Brain", October 11, 2009. CBS 60 Minutes, 10/11/09

LEHRER NEWS HOUR

Football Careers Affect on the Brain. October 29, 2009.

http://www.pbs.org/newshour/extra/video/blog/2009/10/football_careers_affect_on_the-print.html

TIME MAGAZINE

TIME Magazine, 1/28/10: "The Problem With Football" (cover story).

<http://www.time.com/time/nation/article/0,8599,1957046,00.html>

"This is your brain on football"

http://www.time.com/time/video/player/0,32068,64253995001_1957921,00.html

HBO SPORTS

HBO Real Sports with Bryant Gumbel, 1/19/10: <http://www.hbo.com/real-sports-with-bryant-gumbel#/real-sports-with-bryant-gumbel/episodes/0/154-january-19-2010/synopsis.html>

SPORTS ILLUSTRATED

King P. "The Hits that are Changing the Game". Sports Illustrated, 113(16). November 1, 2010 (cover story). Available in print and at:

<http://sportsillustrated.cnn.com/vault/article/magazine/MAG1176374/index.htm>

ON WISCONSIN

Allen J. Head-On Collision. On Wisconsin, Winter 2010 edition (cover story). Available in print and at: <http://onwisconsin.uwalumni.com/features/head-on-collision>

BOSTONIA

Daniloff C. Game Changers: How dramatic brain discoveries are influencing America's most popular sport (cover story). Print and video. Available at: <http://www.bu.edu/bostonia/fall10/football/>

BOSTON MAGAZINE

Schwartz J. Headed for Trouble. Available at: http://www.bostonmagazine.com/articles/headed_for_trouble/

APPLETON POST-CRESCENT

Thompson A. Concussions, head injuries can cause permanent damage. November 28, 2010. Available at: <http://www.postcrescent.com/article/20101128/APC0101/11280511/Concussions-head-injuries-can-cause-permanent-damage>

ANN ARBOR OBSERVER

Schlain J. Hurt Locker: Is Football Damaging Players' Brains? Ann Arbor Observer, 34(10): pages 21-27. June 2010.

MINNESOTA HEALTH CARE NEWS

Starnes, M. Football, Concussion, and Dementia Interview. Minnesota Health Care News, 8(11): pages 12-13. November 2010.

CHICAGO SUN TIMES

Telander R. What football did for us and what football did to us (cover story - 3 parts). Chicago Sun Times, 86(69): pages 1, 22-24. June 25-27, 2010

ABC TV AUSTRALIA:

Catalyst: School of Hard Knocks. April 15, 2010. Available at: www.abc.net.au/catalyst/stories/2873539.htm

BLOOMBERG NEWS

“Researcher Discusses Chronic Brain Injury Studies,” featuring Dr. Ann McKee of the CSTE <http://www.bloomberg.com/video/>

BRAINLINE.ORG

Cumulative Concussions and Chronic Traumatic Encephalopathy - a series of video interviews. Available at: <http://www.brainline.org/content/2010/12/dr-ann-mckee.html>

PUBLIC SERVICE ANNOUNCEMENTS

HEADSTRONG PLAYER

Concussion Safety Media for Kids. Available at : <http://www.headstrongplayer.org/>

MUSEUM TALKS

SCIENCE MUSEUM, BOSTON MA

"Chronic Traumatic Encephalopathy" podcast, available at:
http://www.mos.org/events_activities/podcasts&d=4753