

## MLC III Distance Learning (2009-2010)

### Accessible through Blackboard Learning System

Each online session will feature a timed quiz and short written assignment addressing the course objectives given below. Taped video feeds of the sessions are provided, which should prove useful in completing the *discussion questions* for each assignment.

- Knowledge of the basic science and clinical issues relevant to the readings.
- Ability to assess and critique the research presented.
- Ability to translate the research into lay language appropriate for communication with patients
- Ability to appropriately apply the findings to clinical problems.
- Ability to suggest further research questions stemming from the study results.
- A scientific attitude and knowledge of the scientific method.
- Awareness of ethical issues in scientific investigation.

#### Schedule for Online Sessions:

Assignment(s) & quiz (s) due by 25th of each month at midnight\*

Peer grading(s) due by last day of each month at midnight\*

\* Exception: March 2010 (see schedule)

### Distance Learning Schedule:

<p>July</p> <p>Assignment(s) due: July 25th</p> <p>Peer grading(s) due: July 31st</p>	<p><b>Topic:</b> Transplantation to Improve Quality of Life; <b>Discussant:</b> Amy Friedman, MD</p> <p>Research: <a href="#">Outcomes 18 Months after the First Human Partial Face Transplantation [NEJM 357(24): 2451, 2007]</a></p> <p>Editorial: <a href="#">Transplantation of the Larynx – A Case Report that Speaks for Itself [NEJM 344(22): 1712, 2001]</a></p>
<p>July</p> <p>Assignment(s) due: July 25th</p> <p>Peer grading(s) due: July 31st</p>	<p><b>Topic:</b> Kinase Inhibitors in CML; <b>Discussant:</b> Sara Grethlein, MD</p> <p><b>Study:</b> <a href="#">Dasatinib in imatinib-resistant Philadelphia chromosome-positive leukemias [NEJM 354(24): 2531, 2006]</a></p> <p><b>Case:</b> <a href="#">A mutation conferring resistance to imatinib at the time of diagnosis of chronic myelogenous leukemia [NEJM 348(22): 2265, 2003]</a></p> <p><b>Editorial:</b> <a href="#">Circumventing Resistance to Kinase-Inhibitor Therapy [NEJM 354(24): 2594, 2006]</a></p>
<p>August</p> <p>Assignment(s) due: August 25th</p> <p>Peer grading(s) due: August 31st</p>	<p><b>Topic:</b> "The Great Debate in Preventive Cardiology"; <b>Discussant:</b> Robert Carhart, MD</p> <p><b>Research:</b> <a href="#">Effect of Lower Targets for Blood Pressure and LDL Cholesterol on Atherosclerosis in Diabetes: The SANDS Randomized Trial [JAMA 299(14): 1678, 2008]</a></p> <p><b>Editorial:</b> <a href="#">The Great Debate of 2008—How Low to Go in Preventive Cardiology? [JAMA 299(14): 1718, 2008]</a></p>
<p>August</p>	<p><b>Topic:</b> Childhood Vaccinations; <b>Discussant:</b> Leann Lesperance, M.D., Ph.D.</p>

<p>Assignment(s) due: August 25th</p> <p>Peer grading(s) due: August 31st</p>	<p><b>Study:</b> <a href="#">Early Thimerosal Exposure and Neuropsychological Outcomes at 7 to 10 Years [NEJM 357(13): 1281, 2007]</a></p> <p><b>Perspective:</b> <a href="#">The Problem With Dr. Bob's Alternative Vaccine Schedule [Pediatrics 123: e164: 2009]</a></p>
<p>September</p> <p>Assignment(s) due: September 25th</p> <p>Peer grading(s) due: September 30th</p>	<p><b>Topic:</b> Blood Transfusions; <b>Discussant:</b> John Fortune, MD</p> <p><b>Study:</b> <a href="#">A multicenter, randomized, controlled clinical trial of transfusion requirements in critical care [NEJM 340(6): 409, 1999]</a></p> <p><b>Study #2:</b> <a href="#">Allogeneic blood transfusions explain increased mortality in women after coronary artery bypass graft surgery [Am Heart J 152:1028, 2006]</a></p> <p><b>Perspective:</b> <a href="#">Transfusion triggers [Surgery 142: S67, 2007]</a></p>
<p>September</p> <p>Assignment(s) due: September 25th</p> <p>Peer grading(s) due: September 30th</p>	<p><b>Topic:</b> Dengue Hemorrhagic Fever; <b>Discussant:</b> Timothy Endy, MD, MPH</p> <p><b>Commentary:</b> <a href="#">Dengue and Hemorrhagic Fever – A Potential Threat to Public Health in the United States [JAMA 299(2): 214, 2008]</a></p> <p><b>Perspective:</b> <a href="#">Hunt for Dengue Vaccine Heats Up As the Disease Burden Grows [Science 317: 1494, 2007]</a></p> <p><b>Study:</b> <a href="#">Epidemic Dengue and Dengue Hemorrhagic Fever at the Texas-Mexico Border: Results of a Household-based Seroepidemiologic Survey, December 2005 [Am J Trop Med Hyg 78(3): 364, 2008]</a></p>
<p>October</p> <p>Assignment(s) due: October 25th</p> <p>Peer grading(s) due: October 31st</p>	<p><b>Topic:</b> Barrett's Esophagus; <b>Discussant:</b> Ronald Szyjkowski, MD</p> <p><b>Study:</b> <a href="#">Circumferential ablation of Barrett's esophagus that contains high-grade dysplasia: A U.S. multicenter registry [Gastrointest Endosc 68: 35, 2008]</a></p> <p><b>News Article :</b> <a href="#">Esophageal Therapy You Can Stomach [Wall Street Journal, May 20, 2008]</a></p> <p><b>Review:</b> <a href="#">Medical Progress: Barrett's Esophagus [NEJM 315(6): 362, 1986]</a></p>
<p>October</p> <p>Assignment(s) due: October 25th</p> <p>Peer grading(s) due: October 31st</p>	<p><b>Topic:</b> September 11th Syndromes; <b>Discussant:</b> Sara Grethlein, MD</p> <p><b>Study:</b> <a href="#">World Trade Center "Sarcoid-Like" Granulomatous Pulmonary Disease in New York City Fire Department Rescue Workers [Chest 131: 1414, 2007]</a></p> <p><b>Perspective:</b> <a href="#">The Legacy of World Trade Center Dust [NEJM 356(22): 2233, 2007]</a></p> <p><b>News Article:</b> <a href="#">Lawyer killed by lung disease added to 9/11 toll [CNN, May 24, 2007]</a></p>
<p>November</p> <p>Assignment(s) due: November 25th</p> <p>Peer grading(s)</p>	<p><b>Topic:</b> Hepatitis A: Managing Foodborne Outbreaks; <b>Discussant:</b> Cynthia Morrow,MD,MPH</p> <p><b>Editorial:</b> <a href="#">Hepatitis A – The Price of Progress [NEJM 353(9): 944, 2005]</a></p> <p><b>Study:</b> <a href="#">An Outbreak of Hepatitis A Associated with Green Onions [NEJM 353(9): 890, 2005]</a></p> <p><b>Follow-up perspective:</b> <a href="#">Universal Hepatitis A vaccination in the United States [Pediatr Infect Dis J 27(4): 287, 2008]</a></p>

due: November 30th	
November Assignment(s) due: November 25th Peer grading(s) due: November 30th	<p><b>Topic:</b> Acyclovir Therapy in Neonates; <b>Discussant:</b> Thomas Welch, MD</p> <p><b>Study:</b> <a href="#">The Prevalence of Neonatal Herpes Simplex Virus Infection Compared with Serious Bacterial Illness in Hospitalized Neonates [ J Pediatr 153: 164, 2008]</a></p> <p><b>Editorial #1:</b> <a href="#">When Should You Initiate Acyclovir Therapy in a Neonate? [ J Pediatr 153: 155, 2008]</a></p> <p><b>Editorial #2:</b> <a href="#">In Defense of Empiric Acyclovir Therapy in Certain Neonates [J Pediatr 153: 157, 2008]</a></p>
December Assignment(s) due: December 25th Peer grading(s) due: December 31st	<p><b>Topic:</b> Balloon Sinuplasty; <b>Discussant:</b> Robert Kellman,MD</p> <p><b>Editorial:</b><a href="#">Balloon sinuplasty: A current hot topic in rhinology [Eur Arch Otorhinolaryngol 265: 509, 2008]</a></p> <p><b>Study:</b> <a href="#">Safety and outcomes of balloon catheter sinusotomy: A multicenter 24-week analysis in 115 patients [Otolaryngol Head Neck Surg 137(1): 10, 2007]</a></p>
December Assignment(s) due: December 25th Peer grading(s) due: December 31st	<p><b>Topic:</b> Vagus Nerve Stimulation; <b>Discussant:</b> Tom Schwartz,MD</p> <p><b>Editorial:</b> <a href="#">Approving the Vagus-Nerve Stimulator for Depression [NEJM 356(16): 1604]</a></p> <p><b>Study 1:</b> <a href="#">Vagus Nerve Stimulation for Treatment-Resistant Depression: A Randomized, Controlled Acute Phase Trial [Biol Psychiatry 58: 347]</a></p> <p><b>Study 2:</b> <a href="#">A One-Year Comparison of Vagus Nerve Stimulation with Treatment as Usual for Treatment-Resistant Depression [Biol Psychiatry 58: 364]</a></p>
December Assignment(s) due: December 25th Peer grading(s) due: December 31st	<p><b>Topic:</b> Colonic Pseudo-Obstruction; <b>Discussant:</b> John Fortune, MD</p> <p><b>Study:</b> <a href="#">Neostigmine for the Treatment of Acute Colonic Pseudo-Obstruction [NEJM 341(3): 137: 1999]</a></p> <p><b>Case #1:</b> <a href="#">Colonic ileus [NEJM 354(7): e6, 2006]</a></p> <p><b>Case #2:</b> <a href="#">Post-cesarean section acute colonic pseudo-obstruction with spontaneous perforation [Int J Gynaecol Obstet 89:144, 2005]</a></p> <p><b>Editorial:</b> <a href="#">Management of Acute Colonic Pseudo-Obstruction [NEJM 341: 192, 1999]</a></p>
December Assignment(s) due: December 25th Peer grading(s) due: December 31st	<p><b>Topic:</b> Controversies in Spinal Surgery; <b>Discussant:</b> James Holsapple, MD</p> <p><b>Perspective:</b> <a href="#">Back Surgery - Who Needs It? [NEJM 356(22): 2239, 2007]</a></p> <p><b>Trial:</b> <a href="#">Surgical versus Nonsurgical Treatment for Lumbar Degenerative Spondylolisthesis [NEJM 356(22): 2257, 2007]</a></p> <p><b>Editorial:</b> <a href="#">Spinal-Fusion Surgery – The Case for Restraint [NEJM 350(7): 722, 2004]</a></p> <p><b>News Article:</b> <a href="#">Surgery Better Option for Common Back Conditions [Medical News Today, 5/31/07]</a></p>
January Assignment(s) due: January 25th	<p><b>Topic:</b> Diabetic Ketoacidosis in the Pediatric Population; <b>Discussant:</b> Thomas Welch, MD</p> <p><b>Study:</b> <a href="#">Preventing a Drop in Effective Plasma Osmolality to Minimize the Likelihood of Cerebral Edema During Treatment of Children with Diabetic Ketoacidosis [J Pediatr 150: 467, 2007]</a></p> <p><b>Editorial:</b> <a href="#">Choosing the Right Fluid and Electrolytes Prescription in Diabetic Ketoacidosis [J</a></p>

Peer grading(s) due: January 31st	<a href="#">Pediatr 150: 455, 2007]</a>
January Assignment(s) due: January 25th Peer grading(s) due: January 31st	<b>Topic:</b> Antimicrobial Resistance; <b>Discussant:</b> Cynthia Morrow, MD, MPH <b>Study:</b> <a href="#">Invasive Methicillin-Resistant <i>Staphylococcus aureus</i> Infections in the United States [JAMA 298(15): 1763, 2007]</a> <b>Editorial:</b> <a href="#">Antimicrobial Resistance - It's Not Just for Hospitals [JAMA 298(15): 1803, 2007]</a>
February Assignment(s) due: February 25th Peer grading(s) due: February 28th	<b>Topic:</b> Etomidate for Rapid-Sequence Intubation; <b>Discussant:</b> John McCabe, MD <b>Editorial:</b> <a href="#">Should etomidate be used for rapid-sequence intubation induction in critically ill septic patients? [ Am J Emerg Med 26: 229, 2008]</a> <b>Commentary:</b> <a href="#">Clinical Controversies: Etomidate as an Induction Agent for Endotracheal Intubation in Patients With Sepsis [Ann Emerg Med 52(1): 13, 2008]</a> <b>Study:</b> <a href="#">Randomized Clinical Trial of Etomidate Versus Propofol for Procedural Sedation in the Emergency Department [Ann Emerg Med. 49: 15, 2007]</a>
February Assignment(s) due: February 25th Peer grading(s) due: February 28th	<b>Topic:</b> Phototherapy Treatment; <b>Discussant:</b> Ramsay Farah, M.D. <b>Study:</b> <a href="#">Photodynamic therapy with aminolevulinic acid topical solution and visible blue light in the treatment of multiple actinic keratoses of the face and scalp: investigator-blinded, phase 3, multicenter trials. [Arch Dermatol 140(1): 41, 2004]</a> <b>Editorial:</b> <a href="#">Photodynamic therapy for nonmelanoma skin cancer - and more? [Arch Dermatol. 140(1): 116, 2004]</a>
March Assignment(s) due: March 13th Peer grading due: March 16th	<b>Topic:</b> Developmental Hip Dysplasia; <b>Discussant:</b> Danielle Katz, M.D. <b>Study:</b> <a href="#">Intraarticular Findings in Symptomatic Developmental Dysplasia of the Hip [J Pediatr Orthop 29:9, 2009]</a> <b>Perspective:</b> <a href="#">Developmental dysplasia of the hip: Definition, recognition, and prevention of late sequelae. [Ped Annals 35(2):92, 2006]</a>
March Assignment(s) due: March 13th Peer grading due: March 16th	<b>Topic:</b> Burkitt's Lymphoma; <b>Discussant:</b> Rosemary Rochford, Ph.D. <b>Perspective:</b> <a href="#">Endemic Burkitt's lymphoma: a polymicrobial disease? [Nat Rev Microbiol 3(2):182, 2005]</a> <b>Study:</b> <a href="#">Children with endemic Burkitt lymphoma are deficient in EBNA1-specific IFN-<math>\gamma</math> T cell responses [Int J Cancer 124:1721, 2009]</a>