

## CURRICULUM VITAE

**DATE PREPARED:** July 17, 2008

**PART I: General Information**

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**Place of Birth:** New York, New York

**Education:**

1982 B.A. (English), Princeton University  
1987 M.D. (Medicine), Harvard Medical School  
1997 M.M.Sc. (Clinical Investigation), Harvard Medical School

**Postdoctoral Training:**

01/87-12/88 Intern in Medicine, Massachusetts General Hospital  
01/88-12/89 Resident in Radiology, Massachusetts General Hospital  
01/89-12/91 Resident in Medicine, Massachusetts General Hospital  
01/91-12/94 Clinical and Research Fellow, Cardiology, Massachusetts General Hospital  
01/94-12/95 Research Fellow, Framingham Heart Study  
06/94-08/94 Program in Clinical Effectiveness, Harvard School of Public Health  
07/94-06/95 Senior Research Fellow, Cardiovascular Division, Beth Israel Hospital  
07/95-06/97 Clinical Investigator Training Program, Beth Israel Deaconess Medical Center - Harvard/MIT Health Sciences and Technology

**Licensure and Certification:**

1988 National Board of Medical Examiners  
1992 Diplomate, American Board of Internal Medicine  
1994 Licensed Physician, Commonwealth of Massachusetts  
1998 Diplomate, American Board of Internal Medicine, Cardiology  
2004 Certification from American Society of Echocardiography  
2005 Fellow, American College of Cardiology  
2006 Fellow, American Society of Echocardiography

**Academic Appointments:**

1987-1994 Clinical Fellow in Medicine, Harvard Medical School, Boston, MA  
1994-2003 Instructor in Medicine, Harvard Medical School, Boston, MA

2004- Assistant Professor in Medicine, Harvard Medical School, Boston, MA

### **Hospital or Affiliated Institution Appointments:**

01/95-12/00 Associate in Medicine, Cardiovascular Division, Beth Israel Deaconess Medical Center , Boston, MA  
 01/96-12/00 Medical Director, South Cove Community Health Center, Boston and Quincy, MA  
 01/00-01/06 Associate Director, Non-Invasive Cardiac Imaging, Brigham and Women's Hospital, Boston, MA  
 09/00- Associate in Medicine, Cardiovascular Division, Brigham and Women's Hospital, Boston, MA  
 01/03- Cardiology Consultant, Dana Farber Cancer Institute, Boston  
 01/03- Associate in Medicine, Division of Women's Health and Gender Biology, Brigham and Women's Hospital, Boston, MA  
 02/06- Associate in Cardiology, Children's Hospital, Boston, MA

### **Hospital and Health Care Organization Clinical Service Responsibilities:**

1995-1996 Attending, Brown Walk-In Unit, Beth Israel Hospital  
 1996-1999 Attending, Cardiac Echocardiography Laboratory, Kenmore Center, Harvard Community Health Plan  
 1996-2000 Director, Cardiology Clinic, South Cove Community Health Center  
 1996-2000 Medical Director, South Cove Community Health Center  
 2000-2006 Associate Director, Non-Invasive Cardiac Imaging, Brigham and Women's Hospital  
 2001- Attending Physician in Cardiology, Brigham Medical Specialties, Brigham and Women's Hospital  
 2002-2003 Attending Physician, Exercise Physiology Laboratory, Brigham and Women's Hospital  
 2003- Cardiology Consultant, Dana Farber Cancer Institute  
 2004-2006 Director of Cardiac Health Program, Perini Family Survivors' Center, Dana Farber Cancer Institute  
 2006- Attending Physician in Cardiology, Children's Hospital

### **Major Administrative Responsibilities:**

1996-2000 Medical Director, South Cove Community Health Center  
 1997-2000 Deputy Executive Director/Vice President of Medical Affairs, South Cove Community Health Center  
 1998-2000 Medical Director Liason to Executive Directors, Community Care Alliance, Caregroup  
 2000-2002 Coordinator and Organizer, Weekly Echocardiography Teaching Conference, Brigham and Women's Hospital  
 2000-2006 Associate Director, Non-Invasive Cardiac Imaging, Brigham and Women's Hospital  
 2002-2006 Director, Stress Echocardiography Program, Brigham and Women's Hospital  
 2006- Director of Stress Echocardiography Program, Children's Hospital

### **Professional Societies:**

1986- Sarnoff Society of Fellows, Member  
 1993-1994 Scientific Board of Directors, Scholar Representatives  
 1998-2000 American College of Physician Executives, Member  
 2001-2006 Chinese American Medical Association, New England Chapter, Member  
 President-elect, 2004-2006  
 2002- American Society of Echocardiography, Member  
 2003- Children's Oncology Group, Task Force for Cardiac Guidelines for Cancer Survivors, Committee Assignment  
 2003- American Heart Association, Member  
 2004- American College of Cardiology, Fellow  
 2005- American Society of Clinical Oncology, Member

2006- America Society of Echocardiography, Fellow  
 2007- Heart Failure Society of America, Committee Assignment

### **Community Service Related to Professional Work:**

1997-2000 Medical Supervisor, Hepatitis B Education and Prevention Boston Initiative  
 1998-2000 Principal Investigator, Integration of Managed Care in Community Health, Office of Minority Health  
 1999-2000 Project Director, South Cove's Community Healthy Heart Partnership, Pfizer  
 2004- Board of Trustees, The Park School  
 2006- Preceptor, Summer Science Internship Program, The Winsor School  
 2007- Corporation Member, The Winsor School

### **Editorial Boards:**

1997-1999 Ad-Hoc Reviewer, Journal of Cardiac Magnetic Resonance Imaging  
 2002- Ad-Hoc Reviewer, Journal of Ultrasound Medicine  
 2006- Ad-Hoc Reviewer, Pediatric Blood and Cancer  
 2007- Ad-Hoc Reviewer, Echocardiography  
 2007- Ad-Hoc Reviewer, Journal of Pediatric Hematology and Oncology  
 2008- Ad-Hoc Reviewer, Nature Clinical Practice

### **Awards and Honors:**

1982 Senior Thesis - summa cum laude, Princeton University  
 1986 Stanley J. Sarnoff Cardiovascular Research Fellowship, Massachusetts Institute Of Technology  
 1987 Certificate of Recognition, NASA  
 1992 Stanley J. Sarnoff Scholar in Cardiovascular Research, Stanley J. Sarnoff Endowment for Cardiovascular Research  
 1993 Scientific Board of Directors, Stanley J. Sarnoff Endowment for Cardiovascular Research  
 1998 Scholarship for Management Training, American College of Physician Executives  
 1999 Forty under Forty Award for Achievement in the Boston Community, Boston Business Journal  
 2000 Finalist, Leadership in Health Care, New England Women's Leadership Awards  
 2000 Certificate of Excellence , Office of Minority Health - Health and Human Services  
 2002 Partners in Excellence, Team Leader, Stress Echocardiography, Brigham and Women's Hospital  
 2004 Testamur, Examination of Special Competence in Adult Echocardiography, American Society of Echocardiography  
 2005-2006 Swim Across America Fellowship for Cancer Research, Swim Across America

### **3. Description of Teaching Award(s) Received**

2003-2005 SEED Grant for Innovation in Medical Education, Department of Medicine  
 Brigham and Women's Hospital

### **4. Description of major curriculum offerings, teaching cases or innovative educational programs developed**

1998-2000 Curriculum Offering  
 Integration of managed care into a community primary care setting Development of an educational curriculum for 100 health care providers and 300 patients to learn about managed care. Also created a training video which is available in three languages.  
 2000- Educational Training Video

- Integration of Managed Care into Clinical Practice. Developed and produced training video for the Office of Minority Health to educate patients and health care professionals about the basics of managed care. Awarded the OHM Certificate of Excellence.
- 2000 Curriculum Offering  
Basics of Cardiovascular Disease for the Community Healthcare Workers
- 2000-2006 Curriculum Offering  
Cardiac Ultrasound Curriculum for First Year Cardiac Fellows
- 2001 Educational Program  
Recruiting Minority Women in Clinical Research Trials: The Intersection of Race, Ethnicity, Gender, Community and Academia

### Part III: Bibliography

#### Original Articles

1. **Chen MH**, Berger RD, Saul JP, Stevenson K, Cohen RJ. Transfer function analysis of the autonomic response to respiratory activity during random interval breathing. *Comp. Cardiol.* 1986;13:149-152.
2. **Chen MH**, Berger RD, Saul JP, Stevenson K, Cohen K, Cohen RJ. Transfer function analysis of the autonomic response to respiratory activity during random interval breathing: II. Respiratory sinus arrhythmia. *Am. J. Physiol.* 1989;25:H153-H161.
3. Saul JP, Berger RD, Albrecht P, Stein S, **Chen MH**, Cohen RJ. Transfer function analysis of the circulation: Unique insights into cardiovascular regulation. *Am. J. Physiol.* 1991;261((Heart Circ. Physio.) 30):H1231-1245.
4. Hendel RC, **Chen MH**, L'Italien G, Newell JB, Eagle KA. Gender differences in clinical markers and dipyridimole-thallium imaging in the prediction of perioperative and long-term cardiac events after vascular surgery. *Circulation.* 1994;91:1044-1051.
5. Chen C, Guerrero JL, Vazquez de Prada JA, Padial LR, Schwammenthal E, **Chen MH**, Jiang L, Svizzero T, Simon H, Levine RA, Thomas JD, Weyman AE. Intracardiac ultrasound measurement of volumes and ejection fraction in normal, infarcted and aneurysmal left ventricles using a 10 MHz ultrasound catheter. *Circulation.* 1994;90:481-1491.
6. Chen C, Li L, Long L, Vazquez de Prada JA, **Chen MH**, Fallon J, Weyman AE, Waters D, Gillam L. Incremental doses of dobutamine induces a biphasic response in dysfunctional left ventricular regions subtending coronary stenosis. *Circulation.* 1995;92:756-766.
7. Vazquez de Prada JA, Jiang L, **Chen MH**, Padial LR, Guerrero JP, Schwammenthal E, King ME, Weyman AE, Chen C, Levine RA. Intracardiac ultrasound assessment of atrial septal defect area: in vitro validation and technical consideration. *Am Heart J.* 1995;130(2):302-306.
8. Padial LR, **Chen MH**, Vuille C, Guerrero JL, Weyman AE, Picard MH. Pulsatile pressure affects the velocity of decay of echocardiographic contrast agents. *J Am Soc Echocardiogr.* 1995;8:285-292.
9. Chen L, Ma L, Vasquez de Prada JA, **Chen MH**, Feng YJ, Waters D, Gillam L, Chen C. Effects of beta-blockade and atropine on ischemic responses in left ventricular regions subtending coronary stenosis during dobutamine stress echocardiography. *J Am Coll Cardiol.* 1996;28(7):1866-76.
10. Vazquez de Prada JA, **Chen MH**, Guerrero JL, Padial LR, Jiang L, Schwammenthal E, Svizzero T, Weyman AE, Levine RA, Chen C. Intracardiac echocardiography: in vitro and in vivo validation for right ventricular volume and function. *Am Heart J.* 1996;131(2):320-328.
11. Chuang ML, **Chen MH**, Khasgiwala VC, McConnell MV, Edelman RR, Manning WJ. Adaptive correction of imaging plane position in segmented K-space cine cardiac MR imaging. *J Mag Reson Imag.* 1997;Magn Res Med 37:811-814.
12. Haider AW, Chen L, Larson MG, Evans JC, **Chen MH**, Levy D. Antecedent hypertension confers increased risk for adverse outcomes after initial myocardial infarction. *Hypertension.* 1997;30(5):1020-1025.

13. Sagie A, Freitas N, **Chen MH**, Marshall JE, Weyman AE, Levine RA. Echocardiographic assessment of mitral stenosis and its associated valvular lesions in 205 patients and lack of association with mitral valve prolapse. *J Am Soc Echocardiogr.* 1997;10(2):141-8.
14. **Chen MH**, Chuang ML, Bornstein BA, Gelman R, Harris JR, Manning WJ. Impact of respiratory maneuvers on cardiac volume within left breast radiation portals. *Circulation.* 1997;96:3269-3272.
15. McConnell MV, Khasgiwala VC, Savord BJ, **Chen MH**, Chuang ML, Edelman RR, Manning WJ. Magnetic resonance coronary angiography during free breathing: comparison of navigator locations and respiratory suppression methods. *Am J Roentgenol.* 1997;168:1369-1375.
16. McConnell MV, Khasgiwala VC, Savord BJ, **Chen MH**, Chuang ML, Edelman RR, Manning WJ. Prospective adaptive navigator correction for breath-hold MR coronary angiography. *Magn Res Med.* 1997;37:148-152.
17. Douglas PS, Katz SE, Weinberg EO, **Chen MH**, Bishop SP, Lorell BH. Hypertrophic remodeling: gender differences in the early response to left ventricular pressure overload. *J Am Coll Cardiol.* 1998;32(4):1118-25.
18. Lu HM, Cash E, **Chen MH**, Chin L, Manning WJ, Harris JR, Bornstein BA. Reduction of cardiac volume in left-breast treatment fields by respiratory maneuvers: a CT study. *Int J Radiat Oncol Bio.* 2000;Phys 47:895-904.
19. Chen L, **Chen MH**, Larson MG, Evans J, Benjamin EJ, Levy D. Risk factors for syncope in a community-based sample (The Framingham Heart Study). *Am J Cardiol.* 2000;85(10):1189-1193.
20. Bermudez E, **Chen MH**. Cardiac effects of propofol for transesophageal-guided cardioversion. *Heart Dis.* 2002;4(6):355-7.
21. Soteriades ES, Evans JC, Larson MG, **Chen MH**, Benjamin EJ, Levy D. Incidence and prognosis of syncope. *N Engl J Med.* 2002;347:878-85.
22. Alvarez Ginzo A, **Chen MH**. Post-surgical left ventricular pseudoaneurysm. *Texas Heart Institute Journal.* 2002;29(3):220-21.
23. **Chen MH**, Cash EP, Danias PG, Kissinger KV, Bornstein BA, Rhodes LM, Harris JR, Gelman R, Manning WJ. Respiratory maneuvers decrease irradiated cardiac volume in patients with left-sided breast cancer. *J Mag Reson Imag.* 2002;4(2):265-271.
24. Sheen VI, Janset AN, **Chen MH**, Parrini E, Morgan T, Ravenscroft R et al. FLNA mutations cause a variant Ehlers-Danlos syndrome associated with periventricular heterotopia. *Neurology* 2005;64(2)254-62. *Neurology.* 2005;64(2):254-262.
25. Gregory SA, Yepes CB, Byrne JG, D'Ambra MN, **Chen MH**. Atrial endocarditis - the importance of the regurgitant jet lesion. *Echocardiography.* 2005;22(5):426-430.
26. Desai J, Yassa L, Marqusee E, George S, Frates MC, **Chen MH**, Morgan J, Dychter SS, Larsen PR, Demetri GD, Alexander EK. Primary hypothyroidism is a common complication of sunitinib therapy in patients with gastrointestinal stromal tumors. *Ann Int Med.* 2006;145(9):660-664.
27. Feng Y, **Chen MH**, Moskowitz I, Lu Q, Liu H, Mendonza A, Yoshida Y, Vidali L, Nakamura F, Jessell T, Flanagan J, Kwiatkowski DJ, Walsh CA. Filamin A is required for cell-cell contact in vascular development and cardiac morphogenesis. *Proc Nat Acad Sci.* 2006;103(52):19836-19841.
28. Chen-Plotkin AS, Vossel KA, Samuels MA, **Chen MH**. Encephalopathy, stroke and myocardial infarction as complications of dimethyl sulfoxide use in stem cell transplantation. *Neurology.* 2007;68:859-861.
29. Chu TF, Rupnick MA, Kerkela R, Dallabrida SM, Zurakowski D, Nguyen L, Woulfe K, Pravda E, Cassiola F, Desai J, George S, Morgan JA, Harris DM, Ismail NS, Chen JH, Schoen FJ, Van den Abbeele AD, Demetri GD, Force T, **Chen MH**. Cardiotoxicity associated with tyrosine kinase inhibitor sunitinib. *Lancet.* 2007;370(9604):2011-9.
30. Shankar SM, Marina N, Hudson MM, Hodgson DC, Adams MJ, Landier W, Bhatia S, Meeske K, **Chen MH**, Kinahan KE, Steinberger J, Rosenthal D. . Monitoring for Cardiovascular Disease in Survivors of Childhood Cancer: Report From the Cardiovascular Disease Task Force of the Children's Oncology Group. *Pediatrics.* 2008;121(2):e387-e396.

## Reviews/Chapters/Editorials

1. **Chen MH**, Weyman AE. Echo-Doppler assessment of prosthetic heart valves: what is the meaning for the clinician? ACC Curr. Jour. Rev. 1994;(Nov-Dec).
2. **Chen MH**, Kerkela R, Force, T. Mechanisms of cardiac dysfunction associated with tyrosine kinase inhibitors. Circulation. 2008;117:84-95.

## Books, Monographs, and Textbooks

1. E. Bermudez and **MH Chen**. Stress Echocardiography: Indications and Protocols. In: Essential Echocardiography; a Practical Handbook with DVD (solomon and bulwer). First Totowa, NJ: Humana Press;2007. p. 149-160.

## Clinical Communications

1. **MH Chen**, MA Rupnick, TF Chu, T Force, GD Demetri. Cardiotoxicity of the tyrosine kinase inhibitor-sunitinib. Lancet. 2008.

## Educational Materials

1. **Chen, MH**. Cardiac Ultrasound Curriculum for First Year Cardiac Fellows (Brigham and Women's Hospital). 2001.

## Non-Print Materials

1. **Chen MH**. Integration of Managed Care into Clinical Practice. Office of Minority Health;2000.Developed and produced this video for the Office of Minority Health to educate patients and health professions about the basics of managed care.
2. **Chen MH**, Cooper M. Echoquest. ;2003.Interactive web-based teaching tool for learning cardiac ultrasound.

## Patents

1. Berger RD, **Chen MH**, Saul JP. Method and Apparatus for the Assessment of Autonomic Response by Broad-band Excitation. 4777960. 1986 Jan 1.

## Abstracts

1. Nguyen L, Chu T, Mauch P, Diller L, Ng A, **Chen MH**. Cardiac irradiation during mediastinal radiation for Hodgkin's Disease. NCI Conference for Cancer Survivors. 2006.