

## CURRICULUM VITAE

July 13, 2006

**Evelyn C.Y. Chan, M.D., M.S.**

**PRESENT TITLE:** Director, Biomedical Ethics, Department of Medicine,  
University of Texas-Houston Medical School  
Assistant Professor, Division of General Internal Medicine  
University of Texas-Houston Medical School  
Assistant Professor, Center for Health Promotion and Prevention Research  
University of Texas-Houston School of Public Health

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**CITIZENSHIP:** U.S.A.

### **UNDERGRADUATE EDUCATION:**

- 1985 B.A., *Cum Laude*, Princeton University, Princeton, NJ  
Honors and Thesis in Biology; Advisor: Malcolm Steinberg, PhD  
Thesis topic: The role of calcium as an intracellular signal in cellular differentiation.  
Graduate Studies in Comparative Literature.  
Workshop in Science Writing, John Noble Wilford, science writer, *The New York Times*
- 1981 Diploma in Piano Performance, The Eastman School of Music, Preparatory Department,  
The University of Rochester, Rochester, NY. Pianist: Lois Svard Burge  
*Outstanding Merit*  
Courses in music composition, theory, and harmony.

### **GRADUATE EDUCATION:**

- 1990 M.S., Columbia University Graduate School of Journalism, New York, NY  
Concentration in Science Reporting and Writing,  
Advisors: Kenneth Goldstein; Martin Gottlieb, editor, *The New York Times*  
Street reporting and deadline writing about science and medicine, city courts, police,  
schools, education, arts; magazine writing; literary journalism;  
Masters Thesis on barriers to healthcare for the homeless.
- 1989 M.D., Northwestern University Medical School, Chicago, IL

POSTGRADUATE TRAINING:

- 2005 University of Texas-Houston Health Science Center School of Public Health  
Intervention Mapping (Leona K. Bartholomew, EdD, MPH)  
Systematic Literature Reviews (Patricia Mullen, PhD)  
iATLAS/ti software for qualitative analysis workshop (Nicholas Woolf)
- 2001 University of Texas-Houston School of Health Information Technology  
Telemedicine and applications of information technology to healthcare  
(Kim Dunn, MD, PhD)
- 1998-2000 University of Texas-Houston Health Science Center School of Public Health  
Intermediate Biometric Methods II, Applied  
Regression Methods and other Multivariable Methods with SAS  
(Ralph Frankowski, PhD)  
Health Survey Research Design (Lu Ann Aday, PhD)
- 1996 Rice University, Houston, TX:  
Graduate Seminar: Bioethics (Baruch Brody, PhD)
- 1994-1996 Fellow in Biomedical Ethics and Primary Care Research, Center for Clinical  
Bioethics, Georgetown University Medical Center, Washington, DC, Fellowship  
directors: Daniel Sulmasy, M.D., Ph.D., O.F.M., Kevin Schulman, M.D., M.B.A.

Courses (partial listing) taken at Georgetown University at the School of Public Health, Kennedy Institute of Ethics, Department of Philosophy, and Center for Clinical Bioethics:

- Health Services Research (John Eisenberg, MD, MBA)  
cost-effectiveness analysis, outcomes assessment, decision analysis, methods, physician behavior, health policy, ethics
- Seminal Texts in Medical Ethics I (Edmund Pellegrino, MD)  
OSorbiere, Gregory, Percival, Hooker, Peabody, Cabot, Fox, Engelhardt, Oaths.
- Seminal Texts in Medical Ethics II (Edmund Pellegrino, MD)  
Hippocrates, Edelstein, Plato, Osler, Jaeger, History of Medical Ethics in India and China, Maimonides
- Ethics: Nicomachean Ethics, (Terry Pinkard, PhD)  
Aristotle, Hegel, Kant, MacIntyre, Walzer
- Bioethics Proseminar (Edmund Pellegrino, MD, Daniel Sulmasy, MD, PhD, OFM)  
principalism, virtue ethics, narrative ethics, ethics of care, ethics of managed care, case based approaches to ethics, pluralism and ethics
- The Ethics of Death and Dying – (Robert Veatch, PhD)  
definition of death, suicide and physician assistance, ethics of decisions for competent patients, formerly competent patients, role of surrogates, hospital ethics committees, neonates and Baby Doe rule, futile care debate, social ethics of terminal care

Philosophy of Medicine – (Kevin Wildes, PhD, SJ)  
 E. Cassell, M. Foucault, D.Thomasa, E. Pellegrino,  
 P. Starr, H. Wulff

Quantitative Methods I with SPSS  
 (Margaret Wrightson, PhD)

Quantitative Methods II with SPSS  
 (Margaret Wrightson, PhD)

Seminars in Research and Health Policy - bimonthly  
 (John Eisenberg, MD, MBA, Kevin Schulman, MD, MBA)

Suffering, Dying, and Death: The Ethics of Finitude (Kevin  
 Wildes, PhD, John Collins Harvey, PhD, Edmund  
 Pellegrino, MD, Carol Taylor, PhD, Daniel Sulmasy, MD,  
 OFM)

Intensive Bioethics Course XXII (Thomas Beauchamp, PhD,  
 James Childress, PhD, Madison Powers, JD, DPhil; Ruth  
 Faden, PhD, MPH, Kevin Wildes, PhD, SJ; Edmund  
 Pellegrino, MD; Margaret Little PhD; LeRoy Walters,  
 PhD; Patricia King, JD; Robert Veatch, PhD)

Ethical Considerations in the Business Aspects of Health Care  
 Symposium; (Judith Feder, PhD)

Managed Care: A Catholic Christian Perspective Colloquium  
 (Karen Ignani, John Eisenberg, MD, MBA,  
 Edmund Pellegrino )

Jewish Biomedical Ethics: Comparison with Christian and Secular  
 Perspectives (Alan Faden, MD, Edmund Pellegrino, MD)

Courses taught:  
 Bioethics for the Health Care Professional - for  
 third year medical students small group sessions covering  
 professional ethics and professional responsibility, refusal  
 of treatment, care and compassion, assisted suicide,  
 confidentiality, informed consent in clinical and research  
 medicine, withdrawing/withholding of life-sustaining  
 treatment, abortion, business and justice, gender and power  
 in medicine and nursing  
 with case problems (course director: Warren Reich, PhD)  
 Bioethics Elective for Fourth Year Medical Students  
 (course director: Warren Reich, PhD)

Ethics Consultation Service, Georgetown University Hospital

1995 Department of Epidemiology, Johns Hopkins School of Hygiene and Public  
 Health  
 Courses included: Biostatistics I, (graduate summer program)  
 Epidemiology I, (graduate summer program)

1994-1996 Institute Scholar, Institute for Health Care Research and Policy, Georgetown  
 University Medical Center, Washington, DC

- 1992-1993 Senior Assistant Resident, Department of Internal Medicine, Georgetown University Hospital, Washington, DC; Chairman: John Eisenberg, M.D., M.B.A.
- 1991-1992 Junior Assistant Resident, Department of Internal Medicine, Brown University, The Miriam Hospital, Providence, RI; Chairman: Charles Carpenter, M.D.
- 1990-1991 Medical Intern, Department of Internal Medicine, Brown University, The Miriam Hospital, Providence, RI; Chairman: Charles Carpenter, M.D.

ACADEMIC APPOINTMENTS:

- 2004-present Assistant Professor, Center for Health Promotion and Prevention Research, School of Public Health, The University of Texas Health Science Center, Houston, TX
- 6/99 -present Director, Biomedical Ethics, Department of Medicine The University of Texas Houston Health Science Center, Houston, TX
- 8/96 -present Assistant Professor, Division of General Internal Medicine, The University of Texas Houston Health Science Center, Houston, TX (with medical leave of absence for 6 months in 1997)
- 2002-2003 Associate, Program in Humanities and Technology in Health Care, School of Public Health, The University of Texas Health Science Center, Houston, TX
- 1994-1996 Clinical Instructor, Department of Internal Medicine, Georgetown University Medical Center
- 1993-1994 Clinical Instructor, Department of Internal Medicine, Georgetown University Medical Center, Student Health Service, Washington, DC

CURRENT HOSPITAL APPOINTMENTS:

- 1997- Hermann Hospital, Houston, TX

LICENSURE:

- 1997- Texas  
Inactive District of Columbia, Maryland, Virginia

CERTIFICATION:

- 1994 Diplomate, American Board of Internal Medicine

PROFESSIONAL ORGANIZATIONS (AND COMMITTEES OF THESE):

- 2003- American Public Health Association  
2002- Society for Medical Decision Making  
1994- Society of General Internal Medicine

1997- American College of Physicians  
1994-1996 District of Columbia Science Writers Association

HONORS AND AWARDS:

- 2001 Independent Scientist Award, The Agency for Healthcare Research and Quality, Department of Health and Human Services
- 2000 Dean's Excellence Award for Teaching, The University of Texas-Houston Health Science Center
- 1999 Minority Population Focused Collaborative Training Award, The Department of Defense
- 1999 Dean's Excellence Award for Teaching, The University of Texas Health-Houston Health Science Center
- 1999 The 1999 Senior Class University of Texas-Houston Medical School Mentoring Award
- 1998 Clinical Scientist Development Award, National Cancer Institute
- 1998 Nominee, President's Award for Mentoring Women, The University of Texas-Houston Health Science Center
- 1996 Agency for Health Care Policy and Research/Health Resources and Services Administration (AHCPR/HRSA) National Research Service Award, First Place Presentation
- 1992 Outstanding Housestaff Teaching Award. Awarded by the Class of 1993 at Brown University, The Miriam Hospital, Providence, RI
- 1990 Science Essay Competition, Winner, \$2000, Patrick M. McGrady, Sr. Memorial Award, American Tentative Society
- 1985 Graduation, Cum Laude, Princeton University
- 1981 Hoffman Foundation Essay Competition, Winner, Primary source historical manuscript now permanently archived in the Wayne County Museum, New York.
- 1981 Graduation, Outstanding Merit, Preparatory Department, The Eastman School of Music
- 1981 Howard Hanson Piano Competition, program of Chopin and Bach; Winner
- 1981 Rochester Philharmonic Orchestra Young Artist Piano Competition, Beethoven's Piano Concerto No.1, Op. 15, C-Major, First Runner-up

EDITORIAL POSITIONS:

- 2005- Reviewer, *JAMA*
- 2004- Reviewer, *Patient Education and Counseling*
- 2004- Reviewer, *BMJ*
- 2003- Reviewer, *Cancer Epidemiology, Biomarkers and Prevention*
- 2003- Reviewer, *American Journal of Preventive Medicine*
- 2003- Reviewer, *American Journal of Public Health*
- 2001- Reviewer, *Journal of General Internal Medicine*
- 2002- Reviewer, *Annals of Internal Medicine*  
Recognized as ranking in the top 30% of reviewers

- 2000- Editor, University of Texas Health Sciences Center- Health Leader magazine at <http://www.uthouston.edu/hLeader/about.html>
- 1995-1996 Editor, *The Princeton Club of Washington Newsletter*.

SERVICE ON INTERNATIONAL or NATIONAL GRANT REVIEW PANELS, STUDY SECTIONS, COMMITTEES:

*Study Sections and Grant Review Panels*

- 2006-2010 Scientific Reviewer, Permanent Member, Behavioral Medicine, Interventions and Outcomes Study Section, (BMIO), Risk, Prevention, and Health Behavior Integrated Review Group, Center for Scientific Review, National Institutes of Health.
- 2006 Scientific Reviewer, Ad Hoc, Congressionally Directed Medical Research Program (CDMRP), Clinical Health Science and Epidemiology (CHSE) Panel.
- 2006 Scientific Reviewer, Ad Hoc, Behavioral Medicine, Interventions and Outcomes Study Section (BMIO), Risk, Prevention, and Health Behavior Integrated Review Group, Center for Scientific Review, National Institutes of Health, R01, R21, R03 applications. February 23 and 24, 2006.
- 2005 Scientific Reviewer, Ad Hoc, National Cancer Institute, Scientific Review Group, Subcommittee E – Cancer Epidemiology, Prevention, and Control, P01, R01 applications. December 14, 2005.
- 2005 Scientific Reviewer, Ad Hoc, National Cancer Institute, Initial Scientific Review Group, Subcommittee E, Cancer Epidemiology, Prevention, and Control, P01, R01, applications. NCI-E RPRB-M, October 4 and 5, 2005
- 2004 Scientific Reviewer, Ad Hoc, National Cancer Institute, Initial Scientific Review Group, Subcommittee E, Cancer Epidemiology, Prevention, and Control, P01, R01, U01, R13 applications; April 13 and 14, 2004.
- 2004 Scientific Reviewer, Ad Hoc, National Cancer Institute, Scientific Review Group, Subcommittee E - Cancer Epidemiology, Prevention, and Control. P01 applications. January 21 and 22, 2004.

*Data Safety and Monitoring Boards*

- 2005-2010 Ethicist, Data Safety and Monitoring Board, National Heart, Lung, Blood Institute. R01. “FREEDOM trial: Future REvascularization Evaluation in patients with Diabetes mellitus: Optimal management of Multivessel disease,” (PI: Valentin Fuster, MD, PhD) a 5-year, \$25 million, prospective randomized trial to evaluate drug-eluting stents vs. coronary artery bypass surgery in diabetic patients at 120 sites in the United States, Canada, Europe, South America, and Australia. <http://www.clinicaltrials.gov/ct/gui/show/NCT00086450>

2004 Ethicist, Program Review Committee, National Heart, Lung, Blood Institute. R01. "FREEDOM trial: Future REvascularization Evaluation in patients with Diabetes mellitus: Optimal management of Multivessel disease," Chair: Eugene Braunwald, M.D. January 9, 2004.

#### *Committees and Other Professional Organizations*

2006 Ethicist, Ethics Committee, Society of General Internal Medicine.

2005 Consultant, National Cancer Institute, Applied Cancer Screening Research Branch, Behavioral Research Program, Division of Cancer Control and Population Sciences. Development of a measurement instrument for informed decision making for prostate cancer screening with prostate specific antigen to be used in national population surveys, such as the Health Information National Trends Survey (HINTS).

2004-present Ethicist and Scientist, International Patient Decision Aids Standards (IPDAS) Collaboration, Disclosing Conflicts of Interest Committee, <http://decisionaid.ohri.ca/IPDAS/who.html>

2004-present Investigator, Cancer Prevention and Control Research Network, funded by the Centers for Disease Control and Prevention <http://ukprc.uky.edu/CPCRN/home.htm>

2004 Ethicist, FORUM Task Force on Screening Imaging Tests, American College of Radiology, Chair: Bruce Hillman, MD. Recommended policies toward an ethical approach to controversial unproven screening imaging tests. Proceedings published as The future of imaging screening: Proceedings of the Fourth Annual ACR FORUM  
Hillman BJ, Amis E S, Weinreb JC, Neiman HL, *Journal of the American College of Radiology* 2(1):43-50.

2004 Consultant, Cancer Survivorship Education Program, Lance Armstrong Foundation, funded by the Centers for Disease Control and Prevention and the Lance Armstrong Foundation. Development of culturally sensitive educational brochures distributed nationally on cancer survivorship for different racial/ethnic groups.

2004 Consultant, Increasing Early Detection of Prostate Cancer in African American Men Through a Culturally Targeted Print Intervention, funded by the Department of Defense, PI: Hayley Thompson, PhD, Mount Sinai School of Medicine, Division of Cancer Prevention and Control, Department of Oncological Sciences, New York, NY. Development of an intervention for African Americans.

2003 Consultant, National Cancer Comprehensive Network, Committee on Guidelines for Prostate Cancer Screening – Development of content recommendations for what men ought to know before undergoing prostate cancer screening with prostate specific antigen.

2002-2003 Reviewer, Ad Hoc, Centers for Disease Control and Prevention, Division of Cancer Prevention and Control – Development of physician education tools for assisting physicians with informed decision making about prostate cancer screening, including content for a slide presentation, Screening for prostate

- cancer: sharing the decision, launched on the web at <http://www.cdc.gov/cancer/prostate/screening/index.htm>
- 2001 Consultant, Informed consent for prostate cancer screening. American Cancer Society, PI Sally Weinrich, PhD, University of Louisville, Louisville, KY.
- 2001-2002 Ethicist, Ad Hoc, American Medical Association, The Ethical Force Program: Creating Performance Measures for Ethics in Health Care - Development and implementation of national performance measures for protecting health information privacy and confidentiality.
- 1998-1999 Ethicist, Ethics Task Force for the National Undersea and Hyperbaric Medical Society. Development of professional guidelines for the off-label, ethical, use of hyperbaric oxygen therapy in medicine, which included suggestions on approaches to future research. The final report, published in 2001, stimulated discussion and change in hyperbaric medicine. Evidence-based medicine became incorporated in the off-label uses of hyperbaric oxygen therapy such that in 2003, the Agency for Healthcare Research and Quality published an evidence-based review and report, technology assessment No. 85, "Hyperbaric Oxygen Therapy in Brain Injury, Cerebral Palsy and Stroke."

SERVICE ON THE UNIVERSITY OF TEXAS-HOUSTON HEALTH SCIENCE CENTER COMMITTEES:

- 2003-present Scientific Advisory Committee, Clinical Research Center
- 1997-present Hermann Hospital Ethics Committee
- 1998-2000 Committee for the Protection of Human Subjects Committee

SERVICE TO THE COMMUNITY:

- 2001-2003 Contributing Editor, Prostate Cancer Education and Informed Decision Making, Physician Education Module for Prostate Cancer Screening and Informed Consent, Texas Medical Association Physician Oncology Education Program Intercultural Cancer Center, Baylor College of Medicine, funded by the Centers for Disease Control and Prevention – content development for web-based and palm pilot-based interventions to educate physicians about culturally sensitive and low-literacy ways to promote informed decision making. This includes clinical cases that physicians can review on-line for CME credit to learn more about prostate cancer, screening, and treatment. The module is at: [http://www.baylorcme.org/prostate/cour\\_faculty.cfm](http://www.baylorcme.org/prostate/cour_faculty.cfm)
- 2001-2003 Contributing Faculty, Texas State Prostate Cancer Action Plan, Texas Medical Association - development of strategies needed to implement goals utilizing state resources to promote prostate cancer prevention, screening, detection, education and support services. The plan is available at: <http://www.tdh.state.tx.us/prostate/>
- 1997-2003 Member, Prostate Cancer Advisory Committee, Texas Department of Health, Austin, TX – collaborative work with the Texas Chapter of the American Cancer Society, Texas Department of Health, Texas Cancer Council, Texas Medical Association in the development and dissemination of culturally sensitive educational interventions to improve informed decision making about prostate

cancer screening with prostate specific antigen. These interventions are available at: <http://www.dshs.state.tx.us/chronic/publications.shtm>. The interventions were then distributed nationally to all state departments of health by the Texas Department of Health.

#### TEACHING RESPONSIBILITIES:

- 2004-present Introduction to Medical Ethics and Professionalism – (Boisaubin)  
Second year medical students; lead small group discussions; 6 hours; Topics: confidentiality, abortion, managed care, organ donation, experimental therapy, competency, consent, withdrawal of care
- 2004 Mentor, Janine Catalano, PhD candidate, qualitative research project for Nursing Texas Woman’s University, Houston, TX.
- 2003-present Mentor, Michael Farrell, MD, long-distance mentoring on project about doctor-patient communication about PSA, currently senior author on 2 papers with him, Yale University, CT.
- 2003 Mentor, David Miller, MD, long-distance mentoring on project examining patient attitudes towards the use of technology, Wake Forest University, NC.
- 2001-present Lecturer, Biomedical Ethics in the third year medical student curriculum; 2 hr. lecture monthly 2001, 2002, alternate months 2003-present.
- 2003-present Lecturer, Ambulatory Care Lecture Series for residents, on screening and preventive health care, 1 hr lecture/semester.
- 2004-present Attending physician, Hermann Hospital (inpatient service 1 month per year) and general internal medicine clinic (2 sessions per week)
- 2001-2004 Attending physician, Hermann Hospital (inpatient service 1 month per year, consultation service 1 month per year) and general internal medicine clinic (2 sessions per week)
- 2003-2004 Mentor, Deepak Sagaram, MBBS, primary mentor for project examining ways to improve doctor-patient communication through electronic interfaces. Supervised his practicum toward a masters in health informatics at the UT School of Health Informatics. Research abstract submitted to Kelsey Health Services Research Day, and UT Student Research Day.
- 2003 Lecturer, Ethics in Medicine Lecture Series, Program in the Humanities and Technology in Health Care, School of Public Health and School of Medicine, for first and second-year medical students, 1 hour/semester.
- 2003 Mentor, Kurt A. Wargo, PharmD, primary mentor for manuscript published in *Pharmacotherapy* as part of his pharmacy residency at UT. He has been a faculty member in Pharmacy at Wayne State University since fall, 2003.
- 2002-2003 Mentor and Elective Supervisor, Alexander Allori, M.P.H., fourth-year medical student, content development for a student handbook on evidence-based medicine; includes supervising a one-month elective 12-02. He is a resident at Beth Israel Medical Center, NY, in general surgery.
- 1997-2002 Curriculum development and lecturer 8-10 hours/semester, Biomedical Ethics Lecture Series for residents and fellows in General Internal Medicine, Cardiology, Gastroenterology, Infectious Disease, Pulmonary and Critical Care,

- covering the following topics: advanced directives and end-of-life care, competency, privacy and confidentiality, informed consent, withdrawal and withholding of care, ethical issues in infectious diseases, including hepatitis C, antibiotic use, and HIV, resource allocation and organ transplantation ethical issues, ethical issues in outpatient medicine
- 1997-2002 Lecturer, Ambulatory Care Lecture Series for residents, on screening and preventive health care, 1 hour lecture alternate months
- 2000-2001 Co-mentor, Carolyn Bachino, M.P.H. – assisted with development of senior thesis entitled “Sociocultural factors influencing prostate cancer screening decisions among Hispanic men.” She won the American Public Health Association (APHA) Epidemiology Section Student Award for her abstract. She also won an APHA travel award to present her work at the national American Public Health Association Conference, November 12, 2002, Philadelphia, PA. She then took a position at the Health Services Research and Evaluation Branch of the Centers for Disease Control and Prevention.
- 2001 Mentor, Vincent Tjia, a third-year medical resident who gave an oral presentation of a clinical vignette entitled, “Recognizing a rare diagnosis in a swollen leg” at the national meeting of the Society of General Internal Medicine, May 4, 2001, San Diego, CA.
- 1998 Mentor, Ann Bogan, a third-year medical student who was invited to give an oral presentation of a clinical vignette entitled, “SAPHO Syndrome: a seronegative spondylarthropathy” at the national meeting of the Society of General Internal Medicine, April 24, 1998, Chicago, IL. She then went on to residency training at Stanford.
- 1998 Mentor, Xipu Wu, a second-year medical resident who gave an oral presentation of a clinical vignette entitled, “An uncommon cause of nephrotic syndrome: fibrillary glomerulopathy” at the 1998 Southern Regional meeting of the Society of General Internal Medicine, February 9, 1998, and was invited to present it orally at the national meeting of the Society of General Internal Medicine, April 24, 1998, Chicago, IL.
- 1998-2001 Attending physician, Hermann Hospital (inpatient service 3-4 months per year) and general internal medicine clinic (2 sessions per week)
- 1996-1998 Attending physician, Hermann Hospital (inpatient service 4-5 months per year) and general internal medicine clinic (2 sessions per week)

### CURRENT GRANT SUPPORT

- 10/01/04-9/31/07 Source: Centers for Disease Control and Prevention. SIP 21 1U48DP000057 (Chan/Tortolero)  
 Role: **Principal Investigator**: 30% effort years 1-3; 17% effort concurrent with K02 and 13% not concurrent with K02 in years 1 and 2, then 30% effort in year 3.  
 Title: Community Interventions in Non-medical Settings to

Increase Informed Decision Making (IDM) for Prostate Cancer Screening.

Year 1: \$627,817

Total Cost all years: \$1,912,500

This CDC-funded project overlaps with the aims of the K02 award by promoting the PI's research agenda in informed decision making. Both SIP 21 and the K02 award address decision quality in informed decision making and in underserved populations. That is the area of overlap. Where there is effort in SIP 21 that is not concurrent with the K02 is that the content of the screening decision is different. SIP 21 addresses prostate cancer screening with prostate specific antigen. The aim of this project is to use community-based participatory research and intervention mapping methods to develop a community-based intervention that will help underserved African American in Columbia, South Carolina, and Hispanic men in El Paso, Texas, make informed decisions about prostate cancer screening with the controversial prostate specific antigen blood test. Qualitative formative work includes semi-structured interviews, focus groups, and map learning techniques. There is a pre- post-test delayed intervention comparison group design to assess the intervention.

7/01/02-6/30/07

Source: National Cancer Institute. R01. 5R01CA097263

Role: **Co-Investigator**, 5% effort concurrent with K02 and 5% effort not concurrent with K02 in years 1-3, then 10% effort in year 4

Title: Tailored Interactive Intervention to Increase Colorectal Cancer Screening

Direct costs - all years \$1,595,680

Total costs - all years \$2,220,400

This NCI-funded project overlaps with the aims of the K02 award by promoting the PI's research agenda in informed decision making. Both the R01 and K02 involve developing and testing colorectal cancer screening decision aid interventions. The assessment of the aid and the kind of aid are similar in content and form (video). Where there is effort that is not concurrent with the K02 is that the R01 uses a theory-based approach (transtheoretical model, stages of change) to assess the decision aid, that goes beyond the common element of assessing informed decision making. (PI Sally Vernon)

10/01/04-9/31/08

Source: Centers for Disease Control and Prevention. SIP 23  
1U48DP000057

Role: **Co-Investigator**, 10% effort in year 1 with 5% concurrent with K02 and 5% not concurrent with K02, 5% in year 2 with 3% concurrent with K02 and 2% not concurrent with K02, then 5% effort in year 3 and 10% effort in year 4

Title: Evaluating the Effect of Professional Education on Provider Interventions for Informed Decision Making about Prostate Cancer Screening

Year 1: \$426,923

Total Cost all years: \$1,400,000

This CDC-funded project overlaps 5% with the aims of the K02 award by promoting the PI's research agenda in informed decision making. Both SIP 23 and the K02 award address the use of on-line, web-based interventions to promote informed decision making about colorectal cancer screening. This is the area of overlap – in delivery mechanism, type of intervention (video), intervention content overlap, and overlap in assessment of decision making. Where there is 5% effort that is not concurrent with the K02 is that SIP 23 focuses upon informed decision making for prostate cancer screening and is an intervention targeted at physicians. There is a web-based program with modules to help physicians learn the skills to counsel patients when promoting informed decision making for prostate cancer screening and colorectal cancer screening with an assessment of this intervention in a cluster randomization trial. (PI Patricia Mullen/Tortolero)

10/01/04-9/31/08      Source: Centers for Disease Control and Prevention. SIP 18  
1U48DP000057  
Role: **Co-Investigator**, 5% effort; 3% concurrent effort with K02 in years 1 and 2 and 2% not concurrent with K02, then 5% effort years 3 and 4.  
Title: Trial of interventions to increase utilization of colorectal cancer screening and to promote informed decision making about colorectal cancer screening among Hispanic women and men.  
Year 1: \$376,213  
Total Cost all years: \$1,400,000

This CDC-funded project overlaps 3% with the aims of the K02 award by promoting the PI's research agenda in informed decision making. Both SIP 18 and the K02 award address promoting informed decision making for colorectal cancer screening by developing and testing colorectal cancer screening decision interventions. This is the area of overlap - in content and in decision making assessment. Where there is 2% effort that is not concurrent with the K02 is that the delivery of the colorectal cancer screening decision intervention in the K02 is on-line, whereas it is through community-based lay health workers in SIP 18. Furthermore, the study populations are different in so far as SIP 18 deals exclusively with underserved Hispanics. (PI Maria Fernandez/Tortolero)

9/01/01-8/31/06      Source: Agency for Healthcare Research and Quality, K-02 Independent  
Scientist Award. 1 K02 HS11421-01  
Role: **Principal Investigator**, 75% effort  
Title: Health Communication Over the Internet.  
Total award \$468,538 (direct).

This award supports the PI's career development and research program in informed decision making.

This award supports the PI's salary for a pilot project promoting informed decision making for colorectal cancer screening on-line using an electronic medical record and two web-based colorectal cancer video decision aids delivered by email to patients using the secure system, MyCareLINK, (<http://www.mycarelink.org>) at Memorial Hermann Hospital Systems. One component of the project aims to help patients make informed decisions about the options for

colorectal cancer screening, assess their knowledge, attitudes and beliefs about colorectal cancer screening and help them make more informed decisions about options for this cancer screening test (eg. Barium enema, colonoscopy, flexible sigmoidoscopy, fecal occult blood testing). Another component of the project aims to bridge the digital divide by training underserved patients who are not computer literate how to use the Internet and email and access personal health information from the secure email system through the Harris County Public Library System and the City of Houston Public Library System.

#### PENDING GRANT SUPPORT

01/01/2006-12/31/2010      Source: National Cancer Institute, R01  
Role: **Co-Investigator**, 10% effort years 1, 2, 5 and 5% years 3, 4  
Title: Initiation of Colon Cancer Screening in Veterans  
There is a subsection of this project regarding informed decision making for options in colon cancer screening.  
Total Award: \$2,495,032 (direct); PI Sally Vernon

04/01/2006-03/31/2011      Source: National Cancer Institute, R01  
Role: **Principal Investigator**, 35% effort all years  
Title: Promoting Participation in Decision Making for Prostate Cancer Screening  
Total Award: \$2,400,181 (direct); \$3,630,103 (total)  
The overall objective of this study in collaboration with Baylor, Stanford, and UCLA, is to promote the participation of low literacy African American and Hispanic men in informed decision making about prostate cancer screening with prostate specific antigen (PSA). We will use the Integrative Model of Behavioral Change as a framework with which to select two constructs, norms and skills, that we will test singly and in combination in an intervention containing facts about prostate cancer screening with PSA in order to promote patient participation in PSA decision making. We will test variations of the intervention that contain: a) norms and skills; b) norms only; c) skills only; d) no norms, no skills, in a 2x2 factorial randomized controlled trial stratified by patient race/ethnicity. A unique aspect of our study is the audio-recording and coding of 600 physician-patient interactions during routine primary care encounters after patients have been exposed to the intervention.

#### PAST GRANT SUPPORT:

9/01/01-8/31/05      Source: National Cancer Institute, R-21. 5R21CA89475  
Role: **Co-Principal Investigator**, 10% effort concurrent with K02

Title: The NetLET (InterNET LETter) Intervention and Colorectal Cancer Screening

Total award \$296,030 (direct).

This pilot project supports the research proposed in the K02 award and therefore completely overlaps with the K02. The aims of this award are therefore to conduct the research described above in the K02.

- 10/01/99-9/30/03      Source: Centers for Disease Control/Association of Schools of Public Health. Grant #S1171-19/20.  
Role: **Co-Principal Investigator**, 15% effort  
Title: Communication about Prostate Cancer Screening  
Cross-sectional studies about knowledge about prostate cancer screening in Hispanics, African Americans, Caucasians.  
Total award \$367,340 (direct).
- 9/01/98-8/31/01      Source: National Cancer Institute, K-08 Mentored Clinical Scientist Development Award, 1K08CA78615-01.  
Role: **Principal Investigator**, 75% effort  
Title: Informed Consent for Prostate Specific Antigen Screening.  
Cross-sectional studies about knowledge about prostate cancer screening in Hispanics, African Americans, Caucasians.  
Total award \$227,564 (direct).
- 10/01/99-9/30/01      Source: Department of Defense. Minority Population Focused Collaborative Training Award.  
Role: **Principal Investigator**, 75% effort  
Title: "Informed Consent for Prostate Cancer Screening with Prostate Specific Antigen in African Americans, Hispanics, and Caucasians  
Qualitative work with focus groups of Hispanics, African Americans and Caucasians to develop an intervention to promote knowledge about prostate cancer screening.  
Total award \$75,000 (direct).
- 11/1/98-10/31/99      Source: Ethics Task Force for the National Undersea and Hyperbaric Medical Society.  
Role: **Principal Investigator**, 10% effort  
Title: National guidelines for informed consent and the ethical use of hyperbaric oxygen for off-label indications.  
Review of the literature and committee meetings with representatives of different groups in hyperbaric medicine to arrive at a set of recommendations on how to approach the off-label use of hyperbaric oxygen therapy in an ethical manner.  
Total award \$21,492 (direct)

## PUBLICATIONS:

### A. Abstracts

#### **\* denotes mentee**

1. Chan ECY and Sulmasy DP. What should men know about prostate specific antigen screening before giving informed consent? *J Gen Int Med.* 11(1):114, 1996.
2. Wu X \* and Chan ECY. An uncommon cause of nephrotic syndrome: Fibrillary glomerulopathy. *J Gen Int Med.* 13(1):134, 1998.
3. Bogan AM \*, Chan ECY. SAPHO syndrome: A new seronegative spondylarthropathy. *J Gen Int Med.* 13(1): 123, 1998.
4. Chan ECY, Vernon S, O'Donnell F, Haynes M. Informed consent and prostate cancer screening: the importance of facts men ought to know about prostate specific antigen by physician specialty. *J Gen Int Med.* 16(Suppl 1):190, 2001.
5. Tjia VM \*, Chan ECY. Recognizing a rare diagnosis in a swollen leg. *J Gen Int Med.* 16(Suppl 1): 67, 2001.
6. Chan ECY, Vernon SW, O'Donnell F, Haynes M, Bachino C. Differences in the way African Americans and Caucasians would present facts about prostate cancer screening. *J Gen Int Med.* 16(Suppl 1): 224, 2001.
7. Chan, EC, O'Donnell FT, Haynes MC, Aga DW, Greisinger AJ, Vernon SW. Knowledge about prostate cancer screening with prostate specific antigen by ethnicity and practice site. *J Gen Int Med.* 17(Suppl 1): 172. 2002.
8. Chan EC, O'Donnell FT, Haynes MC, Aga DW, Greisinger AJ, Vernon SW. Differences in knowledge about prostate cancer screening between African Americans and Caucasians. *Medical Decision Making* 6:546. 2002
9. Chan EC, Vernon SW, Ahn CW, Greisinger A. Accuracy of self-reports of prostate cancer screening with prostate specific antigen at two sites. *J Gen Int Med.* 18(Suppl 1): 231. 2003.
10. Chan EC, Vernon SW, Ahn CW, Greisinger A. Knowledge about prostate cancer screening with prostate specific antigen in two populations of African American men. *J Gen Int Med.* 18(Suppl 1): 232. 2003.
11. Farrell MH\*, Stein JM, Ladouceur LK, Chan EC. How “complete” are medicine residents’ efforts at informed consent for prostate-specific antigen screening? *J Gen Int Med.* 19(Suppl 1): 159. 2004.
12. Chan EC, Barry MJ, Vernon SW, Ahn CW. Physicians and their personal prostate cancer screening practices with prostate specific antigen. *J Gen Int Med.* 19(Suppl 1): 192. 2004.
13. Farrell MH\*, Stein Ladouceur LK, Chan EC. Use of a structured implicit review tool to assess counseling about prostate-specific antigen. *J Gen Int Med.* 19(Suppl 1):159. 2004.

## B. Refereed Original Articles in Journals

\* denotes mentee

1. Chan ECY and Sulmasy DP. What should men know about prostate specific antigen screening before giving informed consent? *American Journal of Medicine*. 1998; 105:266-274.
2. Chan ECY and Brody B. Ethical dilemmas in hyperbaric medicine. *Undersea & Hyperbaric Medicine*. 2001; 28(3):123-130.
3. Chan ECY. Promoting Informed Decision Making about Prostate Cancer Screening. *Comprehensive Therapy*. 2001;27(3):195-201.
4. Chan, ECY, Vernon SW, O'Donnell FT, Ahn C, Greisinger, A, Aga D. Informed Consent for Cancer Screening With Prostate-Specific Antigen: How Well Are Men Getting the Message? *American Journal of Public Health*. 2003;93:779-785.
5. Chan ECY, Vernon SW, Haynes MC, O'Donnell FT, Ahn C. Physician Perspectives on the Importance of Facts Men Ought to Know About Prostate Specific Antigen Testing, *Journal of General Internal Medicine*. 2003; 18:350-356.
6. Wargo KA\*, Chong K, Chan EC. Acute renal failure secondary to angiotensin-II receptor antagonism in a patient found to have bilateral renal artery stenosis. *Pharmacotherapy*. 2003; 23(9):1199-1204.
7. Chan, ECY, Haynes MC, O'Donnell FT, Bachino C, Vernon SW. Cultural sensitivity and informed decision making about prostate cancer screening, *Journal of Community Health*. 2003; 28(6): 393-405.
8. Chan, ECY, Vernon SW, Ahn C, O'Donnell FT, Greisinger A. Do Men Know That They Have Had a Prostate Specific Antigen Test? Accuracy of Self-Reports of Testing at Two Sites *American Journal of Public Health*, 2004;94:1336-1338.
9. Rimer BK, Briss PA, Zeller PK, Chan E, Woolf S. Informed decision making: what is its role in cancer screening? *Cancer* 2004; 101(5 Suppl):1214-1228.
10. Chan ECY. Promoting an Ethical Approach to Screening Imaging Tests. *Journal of the American College of Radiology*, 2005; 2(4):311-320.
11. Woolf SH, Chan E, Harris R, Braddock CH, Sheridan SL, Kaplan RM, Krist A, O'Connor A, Tunis S. Promoting Informed Choice: Transforming Healthcare to Dispense Knowledge. *Annals of Internal Medicine* 2005; 143; 293-300.
12. Weinrich SP, Fann RS, Powell I, Godley PA, Moul JW, Chodak GW, Chan EC, Hamm R, Taylor KL, Sanggil K, Winrich MC. A Decision Aid for Teaching Limitations of Prostate Cancer Screening. *UroOncology*; (in press)
13. Chan ECY, Barry MJ, Vernon SW, Ahn C. United States Physicians and Their Personal Prostate Cancer Screening Practices with Prostate Specific Antigen, *Journal of General Internal Medicine* 2006; 21(3):257-259.

## Manuscripts in Review or Preparation

14. Chan ECY, Vernon SW, Ahn C, Frankowski RF. Differences in Knowledge about Prostate Cancer Screening Among African Americans at Public and Private Clinics
15. Chan ECY, Vernon SW, Ahn C, Frankowski RF. Prostate Cancer Screening Knowledge Among Hispanics, African Americans, and Whites.

16. Cantor SB, Chan ECY. Contributions of Medical Decision Making to Decision Analysis: Ethical Trade-Offs in Medical Decision Making
17. Farrell MH, Stein JM, Ladouceur LK, Chan ECY. How Complete are Medicine Residents' Efforts at Informed Consent for Prostate Specific Antigen Screening?
18. Farrell MH, Ladouceur LK, Chan ECY. Use of a Structured Implicit Review Tool to Assess Counseling About Prostate-Specific Antigen.

#### C. Chapters

1. Chan ECY. Informed Consent and Prostate Specific Antigen Screening: What Patients Ought to Know; In: Thompson IM, Resnick MI, Klein EJ, eds. *Screening for Prostate Cancer*. Totowa, NJ: Humana Press, Inc. 2001.
2. Chan, E. (contributor) in Briscoe D. *Lange Q&A: USMLE Step 3, 4th edition*. New York, NY: McGraw-Hill, 2005.

#### D. Other professional communications:

##### Invited Presentations (International)

1. Chan EC. "Special Panel on Ethics," Undersea and Hyperbaric Medicine Society, International Scientific Meeting, Boston, MA. June 27, 1999.
2. Chan EC. Workshop faculty, "Informed Decision-Making and Controversial Preventive Services: An Approach to Patient-Provider Communication," Society of General Internal Medicine, Vancouver, Canada, May 1, 2003.
3. Chan EC. "Accuracy of self-reports of prostate cancer screening with prostate specific antigen at two sites." Society of General Internal Medicine, Vancouver, Canada, May 3, 2003.
4. Chan EC, Vernon SW, Ahn CW, Greisinger A. "Knowledge About Prostate Cancer Screening with Prostate Specific Antigen in Public and Private Clinic African American Men." Second International Shared Decision Making Conference, University of Wales, Swansea, Wales, September 3, 2003.
5. Chan EC, Vernon SW, Ahn CW, Greisinger A. "Accuracy of self-reports of prostate cancer screening with prostate specific antigen at two sites." Second International Shared Decision Making Conference, University of Wales, Swansea, Wales, September 3, 2003.
6. Chan, EC, Refresher course, guest lecturer, "Ethics, Informed Consent, and Evidence-Based Medicine" Radiological Society of North America, 89<sup>th</sup> Scientific Assembly and Annual Meeting, Chicago, IL, November 30, 2003.
7. Chan EC, Barry MJ, Vernon SW, Ahn C. "Physicians and Their Personal Prostate Cancer Screening Practices with Prostate Specific Antigen." European Society of Medical Decision Making. Erasmus MC Universitaire Medisch Centrum Rotterdam, Rotterdam, The Netherlands. June 7, 2004.
8. Farrell MH\*, Stein JM, Ladouceur LK, Chan EC. How "complete" are medicine residents' efforts at informed consent for prostate-specific antigen screening? European Society of Medical Decision Making. Erasmus MC Universitaire Medisch Centrum Rotterdam, Rotterdam, The Netherlands. June 7, 2004.

9. Chan EC. Symposium on Communicating Uncertain Risks, Benefits, and Controversies in Cancer Control. 96<sup>th</sup> annual meeting of the American Association for Cancer Research, Anaheim CA. April 20, 2005.

10. Chan EC. World Cancer Congress 2006, Symposium on Applications Research in Cancer Control; to be held the afternoon of July 10, 2006. Washington, D.C. <http://www.2006conferences.org/u-index.php>. World Cancer Congress 2006 includes The International Union Against Cancer Conference, the International Cancer Congress, Conference for Global Cancer Control Organizations and the Centers for Disease Control and Prevention's 2006 Cancer Partners Summit.

#### Invited Presentations (National)

10. Chan EC, Sulmasy D "What Should Men Know About Prostate Specific Antigen Screening Before Giving Informed Consent?" National AHCPR/HRSA Annual Trainees Meeting, Atlanta, GA. 1996.

11. Chan EC. "Ethical Issues and Controversies in Hyperbaric Medicine," National Conference, Hyperbaric Medicine 1999, Palmetto Richland Memorial Hospital, Columbia, SC. April 10, 1999.

12. Chan EC, Sulmasy D. "What Men Ought to Know About Prostate Cancer Screening," National Meeting, American Society of Preventive Oncology. Washington, D.C., March 7, 2000.

13. Chan ECY, Vernon SW, O'Donnell F, Haynes M, Bachino C. "Differences in the way African Americans and Caucasians would present facts about prostate cancer screening." National Meeting, Society of General Internal Medicine, San Diego, CA. May 5, 2001.

14. Chan EC. "Informed consent and prostate cancer screening: the importance of facts men ought to know about prostate specific antigen by physician specialty." National Meeting, Society of General Internal Medicine, San Diego, CA. May 3, 2001.

15. Chan EC. "Informed Consent and Cancer Screening," 2001 Cancer Conference, Using Science to Build Comprehensive Cancer Programs: A 2001 Odyssey, Centers for Disease Control and Prevention, National Meeting, Atlanta, GA. September 4, 2001.

16. Chan ECY, Vernon SW, Ahn CW, Frankowski RF. "Differences in the way African Americans, Hispanics, and Caucasians would present facts about prostate cancer screening." Intercultural Cancer Center 8th Biennial Symposium on Minorities, the Underserved, and Cancer, National Meeting, Washington, DC, February 9, 2002.

17. Chan EC, Vernon SW, Ahn C, Frankowski RF. "Differences in knowledge about prostate cancer screening with prostate specific antigen." Preventive Medicine Conference 2002. National Meeting, American College of Preventive Medicine, San Antonio, TX, February 21, 2002.

18. Chan EC, Vernon SW, O'Donnell FT, Ahn C, Greisinger A, Aga D. "Knowledge about prostate cancer screening with prostate specific antigen by ethnicity and practice site." National Meeting, Society of General Internal Medicine, Atlanta, GA, May 3, 2002.

19. Chan EC, Vernon SW, O'Donnell FT, Ahn C, Greisinger A. "Differences in knowledge about prostate cancer screening between African Americans and Caucasians." National Meeting, Society for Medical Decision Making, Baltimore, MD, October 21, 2002.

20. Chan EC, Vernon SW, Ahn C, O'Donnell FT, Greisinger A. "Do Men Know That They Have Had a Prostate Specific Antigen Test? Accuracy of Self-Reports of Testing at Two Sites"

American Public Health Association, 131<sup>st</sup> Annual Meeting and Exposition. San Francisco, CA, November 17, 2003.

21. Chan EC, Vernon SW, Ahn C, Frankowski RF. "Knowledge About Prostate Cancer Screening with Prostate Specific Antigen in Public and Private Clinic African American Men." American Public Health Association, 131<sup>st</sup> Annual Meeting and Exposition. San Francisco, CA, November 17, 2003.

22. Chan EC. "Is this the Face of Medicine? Spa Medicine and Screening Controversies." Institute of Ethics, American Medical Association. Chicago, IL, December 1, 2003.

23. Farrell MH\*, Stein JM, Ladouceur LK, Chan EC. How "complete" are medicine residents' efforts at informed consent for prostate-specific antigen screening? National Meeting, Society of General Internal Medicine, Chicago, IL. May 14, 2004.

24. Chan EC, Barry MJ, Vernon SW, Ahn CW. Physicians and their personal prostate cancer screening practices with prostate specific antigen. National Meeting, Society of General Internal Medicine, Chicago, IL. May 14, 2004.

25. Farrell MH\*, Stein Ladouceur LK, Chan EC. Use of a structured implicit review tool to assess counseling about prostate-specific antigen. National Meeting, Society of General Internal Medicine, Chicago, IL. May 14, 2004.

26. Chan EC. "Ethical Issues, Informed and Shared Decision Making, and Evidence-Based Medicine" American College of Radiology, FORUM meeting, Reston, VA, June 16, 2004.

27. Farrell MH\*, Stein JM, Ladouceur LK, Chan EC. How "complete" are medicine residents' efforts at informed consent for prostate-specific antigen screening? American Society of Bioethics and Humanities, Philadelphia, PA. October 28-31, 2004.

28. Farrell MH\*, Stein Ladouceur LK, Chan EC. Use of a structured implicit review tool to assess counseling about prostate-specific antigen. American Society of Bioethics and Humanities, Philadelphia, PA. October 28-31, 2004.

29. Braddock C, Chan EC. Workshop in Shared Decision Making. Society of General Internal Medicine, New Orleans, LA. May 12, 2005.

30. Braddock C, Chan EC, Clever SL, Fryer-Edwards K, Frosch D, Nekhlyudov L. Workshop On Informed Decision Making for Preventive Services. Society of General Internal Medicine, Los Angeles, CA. April 27, 2006.

#### Invited Presentations (Regional and State levels)

31. Chan EC. "Superior Mesenteric Vein Thrombosis," American College of Physicians, Rhode Island Chapter, Providence, RI. 1991.

32. Chan EC, Sulmasy DP. "What Should Men Know About Prostate Specific Antigen Screening Before Giving Informed Consent?" Society of General Internal Medicine Regional Meeting, Baltimore, MD. 1996.

33. Chan EC. "Prostate Cancer Screening with the Prostate Specific Antigen Test", Texas State Department of Health, Prostate Cancer Advisory Committee Meeting, Austin, TX. February, 1997.

34. Chan EC. "Ethical Issues in the Management of Patients with Hepatitis C," Hepatitis C Update for the New Millennium, Southshore Harbour, TX. December 9, 1999

35. Chan EC. "Ethical Issues and Hepatitis C," Hepatitis C Virus Update for the New Millennium II, Southshore Harbour, TX. November 11, 2000.
36. Chan EC. "Informed Consent and Prostate Cancer Screening," Prostate Health: What Primary Care Physicians Need to Know, Houston, TX, Texas Medical Association - Physicians Oncology Education Program, January 27, 2001.
37. Chan EC. "Informed Consent/Informed Decision Making and Other Ethical Issues in Oncology Care," Texas Medical Association, Physicians Oncology Education Program, Texas Cancer Council, Victoria, TX, August 9, 2001.
38. Chan EC. "Ethical Issues in Oncologic Care," Fourth Annual Update in Cancer Care, Texas Medical Association, Physicians Oncology Education Program, Texas Cancer Council, Laredo, TX, September 26, 2001.
39. Chan EC. "Cultural Sensitivity and Informed Decision Making about Prostate Cancer Screening," Texas Medical Association, Physicians Oncology Education Program, Texas Cancer Council, Harlingen, TX, August 27, 2002.
40. Chan EC. "Differences in Knowledge about Prostate Cancer Screening among African Americans and Caucasians," Texas Board of Health State Prostate Cancer Advisory Committee, Austin, TX, November 18, 2002.
41. Chan EC. "Ethics and Controversies in Screening Studies During the Management of the Patient with Liver Disease," Fifth Annual International Hot Topics in Liver Disease Conference, Houston, TX, October 23, 2004.
42. Chan EC. "Informed Consent and Informed Decision Making for Prostate Cancer Screening," Physicians Oncology Education Program, Memorial Hermann Southeast Hospital, Houston, TX, August 3, 2005.

Invited Presentations (Local level)

43. Chan EC, Sulmasy DP. "What Should Men Know About Prostate Specific Antigen Screening Before Giving Informed Consent?" "Institute for Health Care Policy and Research, Georgetown University Medical Center, Washington, DC. 1996.
44. Chan EC. "Issues in Medical Ethics," Internal Medicine Board Review, University of Texas, Houston, TX. August 1, 1997.
45. Chan EC. "Abdominal Pain and Rash: Henoch-Scholein Purpura," Clinicopathological Conference, Department of Internal Medicine, The University of Texas-Houston Health Science Center, Houston, TX. May 10, 1999.
46. Chan EC. "Issues in Medical Ethics," Internal Medicine Board Review, University of Texas, Houston Health Science Center, Houston, TX. July 30, 1999.
47. Chan EC. "Pulmonary Grand Rounds: Ethics." University of Texas-Houston Health Science Center, Houston, TX. May 26, 2000.
48. Chan EC. "Issues in Medical Ethics," Internal Medicine 2000: Update and Board Review, University of Texas-Houston Health Science Center, Houston, TX. July 31, 2000.
49. Chan EC, Barry MJ, Vernon SW, Ahn C. "Physician preferences for informed consent for prostate cancer screening." UT-Houston 6<sup>th</sup> annual Research Day, University of Texas Health Science Center at Houston, Houston, TX, October 6, 2000.
50. Chan EC. "Family Practice Grand Rounds: Ethics," University of Texas-Houston Health Science Center, Houston, TX. November 7, 2001.

51. Chan EC. “Informed Decision Making and Prostate Cancer Screening,” Department of Urology, MD Anderson Cancer Center, February 19, 2003.
52. Chan EC. “Ethics and End-of-Life Decision Making,” Department of Family Practice, University of Texas-Houston Health Science Center, Houston, TX. February, 2003.
53. Chan ECY, Vernon SW, Ahn C, O’Donnell FT, Greisinger A. .“Accuracy of self-reports of prostate cancer screening with prostate specific antigen at two sites.”4<sup>th</sup> Annual Health Services and Outcomes Research Conference, Houston Marriott Medical Center, Kelsey Research Foundation, November 3, 2003.
54. Chan EC, Vernon SW, Ahn C, Frankowski RF. “Knowledge About Prostate Cancer Screening with Prostate Specific Antigen in Public and Private Clinic African American Men.” 4<sup>th</sup> Annual Health Services and Outcomes Research Conference, Houston Marriott Medical Center, Kelsey Research Foundation, November 3, 2003.
55. Chan, EC. “ Informed and Shared Decision Making for Cancer Screening.” John P. McGovern, M.D. Center Health, Humanities and the Human Spirit; faculty research seminar; University of Texas-Houston, April 13, 2005.

#### Non-refereed publications

1. Chan, ECY. “Is prostate cancer screening for me?” Texas Medicine. 2002; 98(3):96.
2. Chan ECY, Haynes MC, O’Donnell FT, Bachino C, Vernon SW. Living with your own decision: Facts about prostate cancer screening for the Hispanic man. Copyrighted May, 2002. Brochure distributed by Departments of Health in Texas, Maryland, Ohio, Wyoming, Georgia, and by the University of North Carolina.
3. Chan ECY, Haynes MC, O’Donnell FT, Bachino C, Vernon SW. Vivir...con su propia decision. Hechos sobre las pruebas medicas para la deteccion del cancer de la prostata en el hombre Latino. Copyrighted May, 2002. Brochure distributed by Departments of Health in Texas, Maryland, Ohio, Wyoming, Georgia, Indiana, and by the University of North Carolina.
4. Chan ECY, Haynes MC, O’Donnell FT, Bachino C, Vernon SW. Prostate cancer screening facts for the African American Man. Copyrighted May, 2002. Brochure distributed by Departments of Health in Texas, Maryland, Ohio, Wyoming, Georgia, Indiana, and by the University of North Carolina.
5. Chan ECY, Haynes MC, O’Donnell FT, Bachino C, Vernon SW. Is prostate cancer screening for me? Copyrighted May, 2002. Brochure distributed by Departments of Health in Texas, Maryland, Ohio, Wyoming, Georgia, Indiana, and by the University of North Carolina.

#### Other

1. *Good Housekeeping*. Interviewed by Susan Ince, June 22, 1999, for October issue about prostate cancer screening.
2. *Reuters Health*. Interviewed by Eric Sabo, April 28, 2003, for “Men Don’t Fully Understand Prostate Cancer Test” which appeared in Reuters Health, April 29, 2003. Distribution to MedLine Plus Health Information, XtraMSN Health and Fitness, American Cancer Society

News Service, News Wise Health Behavior News Service.

<http://www.reuters.com/newsArticle.jhtml?type=healthNews&storyID=2653552> Accessed April 29, 2003.

3. *WebMD Health*. Interviewed by Sid Kirchheimer, May 27, 2003, for “High PSA Level? Check it Again. PSA Tests Can Produce False Positives; Repeat Test After Six Weeks Advised. <http://my.webmed.com/content/article/65/72746.htm>? Accessed May 27, 2003.

## NARRATIVE STATEMENT

The theme in my research career is an investigation of the ethical issues arising from our relationship to new, unproven, technology. The source of this theme arises from my interest at the intersection of the science (medicine) and the humanities (ethics). My training in medicine, ethics, science writing/journalism, health services research and public health reflects that. My primary focus to date has been on promoting informed decision making or informed consent for the unproven prostate cancer screening test called prostate specific antigen (PSA). I use qualitative and quantitative research methods to conduct research in applied bioethics. Some might call it “descriptive bioethics” and/or “implementation bioethics.” Lessons from my research generalize to other unproven screening tests such as spiral lung CT scanning for lung cancer screening, electron-beam CT scanning for coronary artery calcification and coronary artery disease, and genetic testing. The other “new technology” that I am examining is “health information technology.”

My story unfolds when I was an undergraduate at Princeton University where the foundation for my interest in bioethics began. I wanted to understand people, the ‘human condition’, and it was through works of literature and philosophy that I found some illumination. I wanted to understand scientific inquiry, and it was through laboratory research in molecular biology and biochemistry at Princeton and the NIH that I discovered the joy in asking questions and empirically investigating them. The humanities and science offer different truths about us, one grounded in the inner lives of people and the other grounded in the world outside.

Although I enjoyed applying analytic skills in the humanities, in literature I found that the stories were fictional and in philosophy, the cases were often hypothetical. I wanted to pursue questions affecting real people. A partial solution to this came during my senior year at Princeton when I studied with John Noble Wilford, science writer for *The New York Times*. Science journalism uses qualitative research methods to investigate stories about people. I learned that teaching the general public about science and medicine through the press is an essential part of implementing scientific discoveries, raising public awareness, and empowering people with information to improve their lives.

At Northwestern University Medical School I met Henry Ruder, MD, chair of the ethics committee. His stories about ethical dilemmas fascinated me. Like literature, they were stories about people. Like philosophy, they raised questions relevant to all of us. But the main difference was that these problems concerned real people who needed practical solutions. I wondered if it would be possible to pursue a career in medical ethics. During medical school I explored options in medicine and journalism as a way to work at the intersection of science and the humanities. I worked as a science writer/reporter with Richard Hutton, Director of the Science Development at WNET/PBS in New York City on the television series *The Future of Medicine* which was eventually produced and released with the BBC. After medical school, with a scholarship award, I completed a masters degree at the Columbia University Graduate School of Journalism. During that period I published a health column for the *Los Angeles Times* and for the national magazine, *Savvy Woman*. I also reported on city courts, education, religion, police, AIDS in New York City, and healthcare for the homeless by spending time on the streets of New York City. Afterwards, I completed the first two years of my general internal medicine residency at Brown and my third year of residency at Georgetown.

I found more integration between science and the humanities during my fellowship years at the Center for Clinical Bioethics at Georgetown with Daniel Sulmasy, M.D, Ph.D., O.F.M, as my mentor. I took courses in philosophy, ethics, medical history, health policy, biostatistics and epidemiology at Georgetown and Johns Hopkins. In addition to serving on the ethics consultation service, I helped teach two medical school ethics courses for which I prepared cases and ran small group sessions for 3 hours weekly. For my research project I decided to work in the area of informed consent because it is at the intersection of medicine, ethics and journalism to help people make informed decisions about their healthcare. There were few studies concerning informed consent and screening decisions outside of genetic screening. Screening for prostate cancer with the blood test prostate specific antigen (PSA) was, and remains, controversial. It was the right “fruit fly” with which to examine the broader issue of informed decision making when the evidence for a screening practice is unclear. I learned qualitative research methods developing my project and won an AHCPR-HRSA research award.

James Willerson, M.D., recruited me to UT-Houston when he was chairman of the Department of Medicine. During my initial years at UT-Houston, I focused upon clinical practice and teaching. I served on the inpatient service several months annually, taught in ambulatory care clinic, and taught ethics to medical students, residents and fellows in the Department of Medicine. I developed a case-based way to teach similar to the way I had taught at Georgetown. I covered topics ranging from organ transplants and resource allocation to end-of-life issues. I also served on the ethics committee, the ethics consultation service and the Committee for the Protection of Human Subjects. In time, Dr. Willerson appointed me as the Director of Ethics for the Department of Medicine. He recommended that I start a research program and I built upon my fellowship work in informed decision making for PSA with a K08 award from the National Cancer Institute with Sally Vernon, Ph.D., Professor of Behavioral Science and Epidemiology at the UT-H School of Public Health as my mentor. Over the period of that award I built upon my fellowship training with advanced courses in quantitative methods at the UT-School of Public Health and wrote grants to build my research team. Since that award, I have received several other awards and now my research team conducts multi-site studies with collaborators from other disciplines at other institutions.

Because it is unclear whether the potential benefits of PSA testing outweigh the known risks, professional organizations recommend informed decision making for PSA testing. My research projects have ranged from defining the content of informed consent for PSA testing, to describing deficiencies in the knowledge required for informed consent, to developing approaches to promoting it on an individual and population level through patient and healthcare provider interventions in clinical and community settings. I have used qualitative and quantitative methods to complete this work in multi-site projects and have experience working with different clinical trial designs and special, underserved populations (eg. African Americans, Hispanics). I have also collaborated with behavioral scientists, psychologists, and health educators to create multi-disciplinary teams. My other line of research concerns health information technology for which I have funding to examine the use of an electronic medical record, email and web technology, including video decision aids, to promote on-line informed decision making for cancer screening. The content of my empiric research in this area is not directly bioethical in nature; however, work in this area will set the stage for future investigations into the bioethical issues relating to this technology. My research has been funded by the National Cancer Institute, the Centers for Disease Control and Prevention, the Agency for

Healthcare Research and Quality, and the Department of Defense, and I have been invited to speak about it at national and international conferences.

My research has had an impact in clinical practice and in public health. I was the first to define the content of informed consent for PSA testing by the reasonable person standard of informed consent. I defined it by drawing upon the perspectives of patients and physicians. This ethical and legal standard defines the content of consent by that which a “reasonable person” ought to know in order to make an informed decision. That work has become the foundation for informed decision making for PSA testing in clinical practice and in public health initiatives. As a member of the Texas State Prostate Cancer Advisory Committee, I worked with the Texas Department of Health, Texas Cancer Council, American Cancer Society, Intercultural Cancer Center, and Texas Medical Association to develop the Texas Prostate Cancer Action Plan and to disseminate a culturally sensitive educational intervention to all State Health Departments in the country to promote informed decision making for PSA for underserved African Americans, Hispanics, and Caucasians. That work has become a part of several national prostate cancer screening educational programs. Nationally, I have served as a consultant to the National Cancer Comprehensive Network, the Centers for Disease Control and Prevention, and the National Cancer Institute on a variety of initiatives ranging from the development of national programs to educate physicians and patients about informed decision making for PSA to developing a measurement instrument for informed decision making for PSA that will be incorporated in several national health surveys, including the Health Information National Trends Survey (HINTS). Internationally, I serve on the International Patient Decision Aids Standards Collaboration.

As an ethicist I have helped craft national policy recommendations for the off-label use of hyperbaric oxygen treatments for the National Undersea and Hyperbaric Medical Society, and for the use of unproven screening imaging tests for the American College of Radiology. In both cases, I have published recommended guidelines and approaches to promoting informed decision making that are similar to the approach that I have advocated for PSA. When I first began my research career, professional organizations had not yet reached a consensus on recommendations for the use of PSA testing. In the absence of definitive clinical trial data supporting the efficacy of PSA testing on reducing prostate cancer mortality, professional organizations offered conflicting guidelines, with some supporting regular PSA testing and some who did not. Although the clinical trial data are still forthcoming on whether or not regular PSA testing reduces prostate cancer mortality, professional organizations now agree upon informed decision making for PSA. In other areas of medicine, such as hyperbaric medicine and in radiology where screening imaging tests continue to advance toward early detection at the molecular imaging level, the ethical issues are the same as when I first encountered them with PSA nearly a decade ago.

As an ethicist, I have also served on the protocol review committee and currently serve on the data safety and monitoring board for an international study funded by the National Heart, Lung, and Blood Institute. I have also worked with the Lance Armstrong Foundation and the Institute of Ethics at the American Medical Association. I serve as scientific reviewer for the Cancer Epidemiology, Prevention, and Control Scientific Review Group at the National Cancer Institute and for the Behavioral Medicine Interventions and Outcomes (BMIO) study section at the NIH.

I consider it important to ground my work with the perspective of a practicing physician in all phases of my career, because the perspective of clinical practice often brings a practical

perspective to public health and bioethical issues. I enjoy teaching clinical medicine and ethics and caring for patients. I have received four awards for teaching or mentoring medical students and residents. I have also mentored graduate students in public health, nursing, health informatics, and pharmacology. Although in more recent years, I have focused more upon research, I continue to value the time I spend caring for patients on the inpatient, outpatient and medicine consultation services.

The focus of my research work will continue to be on the ethical issues arising from our relationship to new or off-label uses of technology because how we define ourselves, our humanity, depends upon how well we wield science relative to our 'human condition,' disease and mortality. I have found my place at the intersection of the humanities and science. I would like to encourage the creation of teams composed of scientists and humanists. It is through such collaboration that theory gets grounded in reality. Someday, I would like to encourage this more broadly, through training programs and by drawing upon my journalistic training and skills to engage the general public - to highlight the importance of bioethical issues, to encourage public debate about them, and to raise awareness of the need to fund future investigations of them.