

CURRICULUM VITAE

Date Updated: 2-20-12

Ayumi K. Shintani, Ph.D., M.P.H.

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DOCTORAL DISSERTATION:

Title: Modeling the emergence of drug-resistant mutants: implications for treatment strategies for HIV-1 infection
Advisors: Robert Makuch, Ph.D.; Hongyu Zhao, Ph.D.; Edward Kaplan, Ph.D.

EDUCATION:

03/91 Bachelor of Science in Mathematics
Nara Women's University, Nara, Japan

05/96 Master of Public Health in Biostatistics (awarded with distinction)
Yale University, New Haven, CT

05/99 Master of Philosophy in Biostatistics
Yale University, New Haven, CT

05/00 Doctor of Philosophy in Biostatistics
Yale University, New Haven, CT

ACADEMIC HONORS:

Undergraduate:

04/87 – 03/90 Nara Women's University tuition scholarship
04/87 – 04/91 Ikuei-kai scholarship

Graduate School:

09/96 – 05/99 Tuition scholarship, Yale University
09/99 – 05/00 One-year advanced standing tuition scholarship, Yale University

TRAINING:

05/95 – 08/95 Summer intern, Cooperative Studies Program Coordinating Center (CSPCC),
Veterans Affairs (VA) Medical Center, West Haven, CT

08/95 – 11/99 Biostatistician, CSPCC, VA Medical Center, West Haven, CT

05/00 – 12/00 Post-doctoral fellow, CSPCC, VA Medical Center, West Haven, CT

ACADEMIC APPOINTMENTS:

01/01 – 09/04	Assistant professor, Division of General Internal Medicine, Department of Medicine, Vanderbilt University School of Medicine
09/04 – 09/07	Research assistant professor Department of Biostatistics Department of Medicine Cancer Biostatistics Center Vanderbilt University School of Medicine
10/07 – Current	Associate professor Department of Biostatistics Department of Medicine, Cancer Biostatistics Center Division of Cancer Biostatistics, Biostatistics Shared Resource Center of Quantitative Research Vanderbilt University School of Medicine

PROFESSIONAL ORGANIZATIONS:

International Biometric Society

PROFESSIONAL ACTIVITIES:

Intramural Services:

01/01 – Present	Member, Center for Health Services Research, Vanderbilt University Medical Center
01/01 – Present	Member, Vanderbilt Ingram Cancer Center (VICC), Biostatistics Resource
01/01 – 09/04	Director, Biostatistics Core, Center for Health Services Research, Vanderbilt University Medical Center
07/02 – 09/04	Member, Executive Committee, Center for Health Services Research, Vanderbilt University School of Medicine
09/03 – 06/05	Secretary, DSMB for <i>Asthma Disparities in Cohorts at Risk for Morbidity</i> , James Sheller, M.D., principal investigator

Intramural Seminars and Lectures:

11/01	Observational Studies, VICC Biostatistics Resource
12/01	Observational Studies, General Clinical Research Center (GCRC) Weekly Seminar
09/02	Survival Analysis (2 series), GCRC Weekly Seminar
11/02	Multivariate ANOVA (3 series), GCRC Weekly Seminar
02/03	Generalized Estimating Equations, guest lecture for the Master of Science in Clinical Investigation (MSCI) course, Biostatistics II
02/03	Generalized Estimating Equations, GCRC Weekly Seminar
09/03	Assessment of Confounders and Interactions using Subgroup Analyses and Logistic Regressions, guest lecture for the MSCI course, Biostatistics I
09/03	Survival Analysis, guest lecture for the MSCI course, Biostatistics I
11/03	Introduction to SAS programming (2 lectures), GCRC Weekly Seminar
12/04	Observational Studies, Center for AIDS Research (CFAR) Lecture, Division of Infectious Disease
12/04	Designing and Conducting Clinical Trials, CFAR Lecture, Division of Infectious Disease
06/04	Longitudinal Data Analysis (2 lectures), GCRC Weekly Seminar
04/05	Longitudinal Data Analysis, GCRC Weekly Seminar
09/05	Graphical Techniques, guest lecture for the MSCI course, Biostatistics I
04/06	Power Analysis and Sample Size Computation for Paired and Skewed Data, GCRC Weekly Seminar
05/06	Multivariable Modeling Strategy, Department of Biostatistics, Continuing Education for MS Biostatisticians
05/06	Adjusting for the Onset of a Risk Factor Analyzing Common Clinical Outcomes: Application to the Stanford Heart Study and ICU Delirium Study, Department of Biostatistics, Weekly Seminar
04/08	Power Analysis and Sample Size Computation for Paired and Skewed Data, GCRC Weekly Seminar

01/09	Power Analysis and Sample Size Computation for Paired and Skewed Data, VICC Biostatistics Resource
01/10	Power Analysis and Sample Size Computation for Paired and Skewed Data, VICC Biostatistics Resource
01/11	Power Analysis and Sample Size Computation for Paired and Skewed Data, Cancer Biostatistics Annural Seminar
02/12	Power Analysis and Sample Size Computation for Paired and Skewed Data, VICC Biostatistics Resource
01/11 to Present	Biostatistics Weekly Journal Club

Extramural (Visiting Professorships, Invited Lectureships, Seminars, Presentations and Symposia)

- 09/00 Invited speaker: Modeling the Emergence of Drug-Resistant Mutants: Implication for Treatment Strategies for HIV-1 Infection. Presented to: Middle Tennessee Chapter, American Statistical Association, Nashville, TN.
- 12/02 Invited speaker: Practical Issues for Conducting and Reporting Clinical Trials. Presented at: Tokai University Medical Association, Isehara, Japan.
- 04/03 – Present Visiting professorship: Adjunct Associate Professor, School of Medicine, Tokai University Hospital, Kanagawa, Japan.
- 06/05 Invited speaker: Observation Studies: Designs and Issues. Presented at: Tokai University Medical Association, Isehara, Japan.
- 06/05 Contributed to the Japanese government's grant award (a total of 5 million dollars) to establish the nation's first Master of Science program in clinical research training (Master of Clinical Biomedical Science) at Tokai University Hospital, Isehara, Japan.
- 07/06 Invited speaker: Power Analysis and Sample Size Computation. Presented at: Tokai University Medical Association, Isehara, Japan.
- 07/06 – Present Co-director, Data Analysis Core, Center of Anti-Aging Research Center, Tokai University Hospital, Isehara, Japan.
- 12/06 Invited speaker: Elementary Statistical Tests. Presented at: Tokai University Medical Association, Isehara, Japan.
- 3/07 Oral presentation: Impact of Failure to Properly Adjust for Onset of a Time-Dependent Exposure. Presented at: Eastern North American Region/ International Biometric Society Meetings, Atlanta, Georgia, March 2007.
- 07/07 Seminar Series: Elementary Statistical Tests, Power Analysis and Sample Size Computation, Experimental Research Design, and Observational Research Design as part of the Master of Clinical Biomedical Science Program, Tokai University Hospital, Isehara, Japan
- 12/07 Seminar: Analyzing Data from RCT. Presented at: CMIC Co. Ltd., Tokyo, Japan
- 07/08 Selecting proper statistical tests, Sample size and power analysis, Elementary statistical analysis. Tokai University Hospital, Isehara, Japan
- 07/09 Seminar: Analyzing Data from RCT. Presented at: CMIC Co. Ltd., Tokyo, Japan

- 06/11 Analyzing data in ICU research, Yamaguchi University, Division of Intensive Care, Yamaguchi, Japan
- 07/11 Analyzing data in RCT and basic statistical concepts, Baxtar Pharmaceutical, Tokyo, Japan
- 07/11 Analyzing data in RCT and basic statistical concepts, Japan Tobacco Pharmaceutical Division, Tokyo, Japan
- 07/11 Analyzing data in RCT and basic statistical concepts, PPCJ Co. Tokyo, Japan
- 07/11 Analyzing data in RCT and basic statistical concepts, Wakamoto Pharmaceutical Co. Ltd. Kanagawa, Japan
- 07/11 Interim monitoring and Bayesian concepts, Faculty Skill Development Seminar, Tokai University Medical School, Kanagawa, Japan
- 07/11 Selecting proper statistical tests and concept of confounding, Lecture in Graduate Program in Medicine, Tokai University Medical School, Kanagawa, Japan
- 07/11 Generalized Linear Models, Mixed Effect Regression, Cox with Time-varying covariates, Kyoto University Medical School, Kyoto, Japan
- 07/11 Analyzing data in observational studies, Shionogi Co. Ltd. Osaka, Japan

JOURNAL REVIEWER: Annals of Internal Medicine, Archives of Internal Medicine
 Journal of the American Geriatric Society, Intensive Care Medicine
 Clinical Chemistry, American Journal of Epidemiology, Journal of Clinical Epidemiology, JAMA

TEACHING ACTIVITIES:

- 01/00-05/00 Course instructor, Advanced Statistics in Nursing Research, 3 credit-hour required course for doctoral students in Yale University School of Nursing, New Haven, CT.
- 02/04 - Present Course instructor, Biostatistics II (MSCI 524-5015), 4 credit-hour required course for the Master of Science in Clinical Investigation program, Vanderbilt University School of Medicine. Six 3-hour lectures were taught in February 2004, twenty 3-hour lectures in February 2005, twenty 3-hour lectures in February 2006, twenty 3-hour lectures in February 2007. twenty 3-hour lectures in February 2008, twenty 3-hour lectures in February 2009
- 10/08 – 10/09 Course instructor, Epidemiology I. 4 credit-hour required course for the Master of Science in Clinical Investigation program, Vanderbilt University School of Medicine. eleven 3-hour lectures were taught in October 2008
- 12/05 – 8/09 Course instructor, Biostatistics I, 4 credit-hour required course for the Master of Clinical Biomedical Science (MCBS), Tokai University Hospital, Isehara, Japan. Twenty 3-hour lectures were taught in December 2005, December 2006, and December 2007, June 2008
- 07/06 – 8/09 Course instructor, Biostatistics II, 4 credit-hour required course for the Master of Clinical Biomedical Science (MCBS), Tokai University Hospital, Isehara, Japan. Twenty 3-hour lectures were taught in July 2006, July 2007, July 2008

TEACHING AWARDS AND HONORS:

- 2005 Teaching award from Master of Clinical Investigation Program for the academic year 2004-2005

MENTEES:

Tebib Gebretsadik, M.P.H.
Associate in Biostatistics, Department of Biostatistics
Training period: 2003 – Pres.
Research focus: Advancing Methodology of Biostatistics in Health Services Research

Jennifer Thompson, M.P.H.
Biostatistician II, Department of Biostatistics
Training period: 2005 – Pres.
Research focus: Data Analysis in Critical Care Medicine

Pingsheng Wu, Ph.D.
Biostatistician II, Department of Biostatistics
Assistant in Biostatistics, Department of Biostatistics
Statistical research method training provided by Dr. Shintani: 2004 – Pres.

Research project: Biostatistical analyses of epidemiologic studies in asthma: dietary antioxidants and the incidence of adult-onset atopic diseases: oxidative stress in adult asthmatics with acute disease exacerbations

Svetlana Eden, MS
Biostatistician III, Department of Biostatistics
Training period: 2008 – Pres.
Research focus: Data Analysis in Critical Care Medicine and Health Literacy

Aihua Bian, MS
Biostatistician I, Department of Biostatistics
Training period: 2009 – Pres.
Research focus: Data Analysis in Laboratory Science and Clinical Epidemiology in General Nephrology

Renee Torres, MS
Biostatistician I, Department of Biostatistics
Training period: 2009 – 2010.
Research focus: Data Analysis in Critical Care Medicine

RESEARCH PROGRAMS:

ACTIVE

5RC2 HL10816-02 (Brown) 09/30/2009-09/29/2011 0.60 calendar months
NIH \$980,000

Inflammation/Oxidation, Omega-3s, & Post-Op AFib & Cognitive Decline

The goal of this subcontract is to provide Oxidative Stress and Inflammation Biomarker Analysis Core, leveraging the discovery, experience and resources in measuring biomarkers of oxidative stress inflammation.

5K24 DK077875-03 (Ely) 05/01/2008-04/30/2013 1.20 calendar months
NIDDKD \$128,471

Longitudinal Diabetes Care

This proposal addresses a line of inquiry regarding an optimal diabetes care required to sustain optimal longitudinal diabetes care. Employing a randomized clinical trial the study addresses four specific aims. 1)To assess the relative effectiveness of 3 management approaches, varying in intensity, for preventing glycemic relapse after acceptable glycemic control is achieved; 2)To determine patient characteristics and behaviors that are prospectively predictive of successful relapse prevention in order to better understand the target group most likely to respond to a given maintenance plan; 3)To determine prospectively the predictors of failure to prevent glycemic relapse so as to better identify subgroups in need of alternate maintenance strategies; 4)To determine the differences in activity cost between intervention arms using activity based accounting.

5R01AG027472-05 (Ely) 08/01/2010-06/30/2011 0.24 calendar months
NIA \$385,254

The Mind ICU Study

This study will examine whether duration of delirium is an independent risk factor for the incidence, severity and/or duration of long-term cognitive impairment and impaired health-related quality of life in ICU survivors. It will further seek to determine whether degree of exposure to sedative and analgesic medications in ICU patients is an independent risk factor for the incidence, severity, and or duration of long-term cognitive impairment in patients and impaired health-related quality of life. The study also will attempt to determine the relationship between long-term cognitive impairment and health-related quality of life, including "real world" outcomes such as return to work or usual life activities. This study will pave the way for development of preventive and/or treatment strategies to reduce long-term cognitive impairment and improve the functional recovery of older and younger ICU patients for decades to come

1R01AG035117-01A1 (Ely) 03/15/2011-02/29/2012 0.36 calendar months
 NIA \$1,039,197

The Mind USA Study

Millions of critically ill patients every year develop confusion (delirium) while in Intensive Care Units (ICUs), and though a large portion of these patients go undetected and untreated, ICU teams most often use typical and atypical antipsychotics to treat such patients despite no support from placebo-controlled trials. The MIND-USA trial will be the first study ever to answer the question of whether haloperidol or an atypical antipsychotic (ziprasidone) is better or worse than a placebo as treatment for delirious medical and surgical ICU patients. This investigation will determine if either haloperidol or ziprasidone shorten delirium duration, improve survival, affect length of stay in the hospital, or improve long-term brain function and quality of life at 1-year follow-up.

Merit Review (Ely) 11/01/2009-10/31/2011 1.80 calendar months
 Department of Veterans Affairs \$29,362

The Mind ICU Study: Delirium and Dementia in Veterans Surviving ICU Care

The ramifications of ICU-accelerated dementia and deficits in HRQL are particularly critical for the Veterans Administration, considering that veterans over the age of 85 are expected to triple over the next 5 years, a growth peak 20 years in advance of that projected for the general U.S. population. This investigation will determine if delirium and psychoactive drug exposure are independent determinants of long term cognitive impairment and quality of life in veterans with interactions being considered for post traumatic stress disorder and baseline neuropsychological deficits such as mild cognitive impairment or early dementia. The Veterans Administration is a unique site in which to conduct such a cohort study in that many veterans will have undergone pre-ICU neuropsychological testing with which we can compare post-ICU testing results.

1K23AG032355-01A2 (Han) 07/01/2010-06/30/2015 0.60 calendar months
 NIA \$137,975

Delirium in the Emergency Department: Novel Screening and Natural Course

The major goal of this project is to develop ED-based delirium interventions. These interventions will emphasize early diagnosis and treatment of delirium in the ED, and will potentially have a profound impact in the way ED cares for older adults.

5R21 AT003844-03 (Ikizler) 06/01/2008-05/31/2012 0.60 calendar months
 NIDDK \$148,500

Omega-3 Fatty Acid Administration

The overall goal of this project is to examine the role of EPS supplementation in ameliorating the inflammatory state of uremia and the related muscle protein catabolism associated with this disease state.

5R01 HL07923-02 (Ikizler) 09/05/2009-06/30/2013 0.60 calendar months
 University of Washington Sub award \$114,613

Oxidative Stress in CKD

The central aim of this proposal is to improve understanding of how metabolic pathways that contribute to adiposity also amplify risks of kidney disease progression and cardiovascular disease in subjects with moderate to severe CKD.

5K23 AG0331322-03 (Jackson) 09/15/2008-08/31/2013 0.24 calendar months
 NIH/NIA \$99,498

Executive Dysfunction and Functional Impairment in Elderly ICU Survivors

The goals of this project are to understand the mechanisms of brain injury following critical illness, identify modifiable risk factors for the development of ExD, and identify the specific and unique cognitive disabilities associated with persistent functional impairment.

3P30 CA068485-13 (Pietenpol) 09/28/2004-08/31/2015 0.60 calendar months
 NIH/NCI \$3,566,092

Cancer Center Support Grant

The Vanderbilt Cancer Center Core grant's specific authorities and responsibilities are: (1) to coordinate and integrate the cancer and cancer-related activities of Vanderbilt (2) to conduct, support and enhance cancer research and to integrate cancer-related research throughout the University (3) to integrate, develop, and conduct cancer education programs (4) to coordinate and integrate the care of cancer patients at Vanderbilt and Veterans Administration Medical Center.

5P60 DK020593-33 (Powers) 04/01/2010-03/31/2012 1.80 calendar months
 NIH/NIDDK \$1,421,661

Diabetes Research and Training Center

The major goals of this project are to incorporate what we learn into new tools for patient assessment and intervention in diabetes prevention, control, clinical research, and health disparities in African-American communities.

5R01 HD059794-03 (Rothman) 01/05/2009-12/31/2013 0.30 calendar months
 NICHHD \$448,778

Addressing Health Literacy and Numeracy to Prevent Childhood Obesity

The study is a multi-site randomized, controlled trial to assess the efficacy of a low-literacy/numeracy-oriented intervention designed to promote healthy family lifestyles and to prevent early childhood obesity.

1R18DK083264-01A2 (Rothman) 07/15/2010-06/30/2011 0.36 calendar months
 NIDDKD \$427,630

Public-Private Partnership Addressing Literacy-Numeracy to Improve Diabetes Care

The goal of this study is to be a partnership with the Tennessee Department of Health to improve care for vulnerable English and Spanish speaking patients with diabetes by improving health care providers' health communication skills, and providing a novel diabetes education toolkit that is sensitive to literacy and numeracy issues.

5R01 HL087254-04 (Stein) 09/30/2007-07/31/2012 0.30 calendar months
NIH/NHLBI \$486,094

Fish Oil for Atrial Fibrillation-Effect and Mechanisms

The overall goal of this project is to define the interplay between inflammation, oxidative stress, fibrosis and atrial fibrillation by addressing the hypothesis that fish oil reduces the recurrence of atrial fibrillation through and anti-inflammatory, antibiotic and antioxidant mechanisms. Dr Morrow is a co-investigator.

5P60 AR056116-03 (Stein) 08/01/2008-07/31/2013 0.60 calendar months
NIAMS \$852,552

Vanderbilt Multidisciplinary Clinical Research Center

The goal of this project is to promote and foster multidisciplinary clinical research in rheumatic diseases by leveraging institutional training and research resources.

PENDING

11072138 (Cavanaugh) 07/01/2011-06/30/2012 0.60 calendar months
ASN \$84,425

Targeting Social Determinants to Improve Chronic Kidney Disease Core

11082429 (Cavanaugh) 09/01/2011-08/31/2012 0.12 calendar months
NIDDKD \$50,000

Facilitating Anemia Treatment Risk Communication for Patients with Kidney Disease

11051481 (Elasy) 07/01/2011-06/30/2012 1.20 calendar months
NIDDKD \$585,291

Vanderbilt Center for Diabetes Translation Research

2R01DK037868-24 07/01/2011-06/30/2012 0.60 calendar months
NIDDKD \$250,000

Immune Non-Immune Bases of Renal Disease

1R01 (Pandhariipande) 12/01/2011-11/30/2012 0.60 calendar months
NIH/Unknown \$552,226

Altering Sedation Paradigms to Improve Brain Injury and Survival in Severe Sepsis

11072040 (Shintani) 07/01/2011-06/30/2012 0.54 calendar months
Bristol-Myers Squibb Foundation \$8,167

Partnering to Reduce the Diabetes/Obesity Burden in African American Women

ENDED:

5R01 HL065082-09 (Stein) 02/01/2006-01/31/2012 0.60 calendar months
NIH/NHLBI \$218,475

Vascular Damage in SLE

The major goals of this project are to investigate a basic understanding of the interrelationship between inflammation, oxidative stress, genetic polymorphism, and vascular damage in systemic lupus erythematosus (SLE).

5R01 DK037868-23 (Ichikawa) NIDDKD	09/01/2007-05/31/2011 \$257,855	0.48 calendar months
Immune Non-Immune Bases of Renal Disease This project will study unique mutant mouse models and not merely document the dying process of scarring glomeruli but also identify the clue to the effective measure of intervening in the process of glomerular scarring. Remarkable protection against injury has been observed in mutant models when kidney work, i.e. filtration, was transiently put to rest.		
5 R01 CA97386-01/02/03/04 (Zheng) NIH/NCI	09/01/2002-08/31/2007 \$563,889	0.60 calendar months
Tumor Markers and Recurrent Adenomas: A Follow-Up Study The major goals of this project are to investigate predictors for the risk of developing metachronous colorectal adenomas among adenoma patients after their initial polypectomy.		
5 R01 HL067964-04 (Stein) NIH/NHLBI	09/01/2001-07/31/2007 \$225,000	0.6 calendar months
Atherosclerosis in RA The primary aim of this project is to test the hypothesis that treatment with a PPAR γ agonist, pioglitazone, will decrease inflammation and improve insulin sensitivity and vascular stiffness in patients with RA.		
5 R01 DK045604-11 (Ikizler) NIH/NIDDK	01/01/2006-03/31/2007 \$150,000	0.60 calendar months
Malnutrition in Dialysis Patients The aim of this study is to identify the mechanism(s) by which CHD patients lose muscle mass and test certain interventions that will either prevent whole-body and muscle protein breakdown or enhance muscle growth.		
5 K23 AG01023-05 (Ely) NIH/NIA	08/01/2001-07/31/2006 \$115,225	2.40 calendar months
Cognitive Impairment in the ICU: Evaluation and Outcomes The major goals of this project are to investigate the effect of delirium induced in the ICU for risk of prolonged hospital stays, institutionalization, and death.		
1 K23 AG01023-01A1 (Ely) NIH NIA 4043830641	08/01/01 – 7/31/06 \$115,225	2.40 calendar months
Cognitive Impairment in the ICU: Evaluation and Outcomes This study examines the multiple risk factors for cognitive impairment in ICU patients and their interactions with recovery from acute respiratory failure, as well as protocol development to optimize the delivery of psychoactive medications in conjunction with weaning from mechanical ventilation.		
1 R01 CA92653-01/02 (Dittus) 4043570021	04/01/02 – 3/31/05 \$205,012	0.60 calendar months
Simulation Modeling of Colorectal Cancer The major goals of this project are to build a new and more powerful discrete-event simulation model based on an existing validated computer model of the natural history of colorectal neoplasia to address questions concerning the clinical outcomes, cost, effectiveness, cost-effectiveness, and resource utilization		

for various colorectal cancer control strategies.

- 5 R01 HL067964-01/02/03 (Stein)** 09/01/01 – 07/31/06 0.60 calendar months
4043420121 \$225,000
Atherosclerosis in RA
The purpose of this project is to test the hypothesis that the rate of progression of coronary artery atherosclerosis in patients with RA is more rapid than that of controls and is associated with inflammation, vascular stiffness, and the metabolic syndrome.
- RO3 CA89842 (Fowke)** 8/1/01-1/31/03 1.20 calendar months
\$50,000
Isothiocyanate Excretion, Brassica, and Breast Cancer Risk
This project investigates the relationship between a urinary marker of Cruciferae vegetable intake (isothiocyanates), glutathione S-transferase genotypes, and breast cancer risk in a case-control study of women living in Shanghai, China.
- RO1 CA72784 (Zheng, Wei)** 01/14/97 – 01/31/02 1.20 calendar months
NIH \$246,573
Evaluation of Predictors for Recurrent Adenomas
The major goals of this project are to investigate predictors for the risk of developing metachronous colorectal adenomas among adenoma patients after their initial polypectomy.
- BEESON (Ely)** 07/01/01 - 06/30/02 2.40 calendar months
\$437,616
American Federation for Aging Research (AFAR)
Risk factors & prognosis of delirium in intensive care unit patients
- KO8 AI01582 (Hartert)** 2/1/99-1/31/04 0.60 calendar months
\$112,175
Medication Use in Assessing and Improving Asthma Control
The major goals of this project are to investigate the effect of medication use in assessing and improving asthma control.
- RO1 HL65193 (Brown)** 08/01/00-07/31/04 0.60 calendar months
\$175,000
Genes and Fibrinolytic Capacity of Human Endothelium
The purpose of this grant is to test the hypothesis that genetic or pharmacological factors that decrease ACE activity favorably alter cardiovascular morbidity and mortality by enhancing the effect of bradykinin on fibrinolytic balance.
- 1 P30 Ai54999-01 (D'Aquila)** 05/01/03 – 04/30/06 0.60 calendar months
4043621791 \$544,494
Vanderbilt Meharry Development CFAR
The objective in this study is to build infrastructure and collaborations that will enhance HIV/AIDS research at both institutions.
- R01 HL60906 (Brown)** 08/01/02-07/31/07 0.60 calendar months
\$354,382
Renin-Angiotensin and Fibrinolysis Interaction in Humans

The long-term objective of this project is to test the hypothesis that Ang II and bradykinin modulate fibrinolysis in humans. Dr. Brown serves as Co-Investigator.

Note: Effort was transferred to Dr. Chang Yu as of 10/04

RO1 HL67308 (Brown) 07/01/02-06/30/07 0.60 calendar months
\$250,000

PAI-1 and the Vascular Toxicity of Aldosterone

To purpose of this grant is to test the hypothesis that aldosterone contributes to the vascular toxicity associated with activation of the RAAS by modulating the effects of Ang II on fibrinolytic balance.

Note: Effort was transferred to Dr. Chang Yu as of 10/04

Dr. Shintani contributed to the award of the following grants whose efforts have been transferred to other faculty of the Department of Biostatistics:

5P50 CA95103-03 (Coffey) 9/24/2002 – 4/30/2007 1.2 calendar (10%)
\$1,626,528

The SPOR in GI Cancer

5P50 HL081009 (Vaughan) 3/1/2007 – 2/28/2012
\$2,491,775

The SCCOR in Hemostatic and Thrombotic Diseases

K23 DK065294 (Rothman) 07/01/03-06/30/08 0.24 calendar (2%)
\$577,063

Chronic Disease Management for Adolescents with Type 2 Diabetes Mellitus

5 U01 HI72471-03 (Sheller) 09/30/02 – 07/31/07 0.60 calendar (5%)
4043840991 \$389,486

Asthma Disparities in Cohorts at Risk for Morbidity

The goals of this project are to determine the mechanisms underlying disparities in asthma, and to improve asthma care in a targeted group at high risk for asthma-specific, maternal and perinatal complications: pregnant women with asthma.

5 R01 AI50884-02 (Hartert) 04/01/03 – 03/31/07 0.60 calendar (5%)
4043840611 \$496,462

Dietary Antioxidants and Incidence of Adult-onset Asthma

The purpose of this study is to investigate the effect of dietary antioxidants on incidence of adult-onset asthma.

Thrasher Research Fund (Hartert) 07/01/04 – 06/30/06 0.60 calendar (5%)
4043836152 \$142,883

Modifiable Risk Factors for Severe RSV Bronchiolitis among Hospitalized Infants

The objective of this study is to determine the relationship between severe RSV bronchiolitis requiring hospitalization and family history of atopy.

ADA (Rothman) 7/1/03-6/30/06 0.60 calendar (5%)
\$359,626

Improving the Care of Adolescents with Type 2 Diabetes: A Randomized Controlled Trial

1R01 LM007995-01 (Miller, Randolph) 2/1/04-1/31/06 0.60 calendar (10%)

\$740,000

TIME (tools for inpatient monitoring using evidence)

The major goals of this study are to develop and evaluate tools for inpatient monitoring of adverse events for safety and appropriate testing.

1R01 HL 077389-01A1 (Brown)

04/01/05 – 03/31/10

2.4 calendar (20%)

\$315,892

RASS Inflammation and Post-operative Atrial Fibrillation

RESEACH AWARDS AND HONORS:

- 2004 *Delirium and Cognitive Outcomes* chosen for Vanderbilt's "Wall of Distinguished Research Efforts"
- 2005 Elliot Newman Award for Research Excellence in Clinical Research (awarded to a single group for most important contribution to clinical research at Vanderbilt University)
- 2006 The year 2007 Anesthesiology Specialty Award by the Society of Critical Care Medicine

BIBLIOGRAPHY

PEER REVIEWED PUBLICATIONS: (Kamina is Dr. Shintani's maiden name)

A. Original Investigations

1. Peduzzi P, **Kamina A**, Detre K. The 22-Year Follow-up in the VA Cooperative Study of Coronary Artery Bypass Surgery for Stable Angina. *American Journal of Cardiology*. 1998 Jun; 81(12): 1393-1399.
2. Federman DG, Goyal S, **Kamina A**, Peduzzi P, Concato J. Patients' Knowledge of and Attitudes Towards Prostate-Specific Antigen Testing. *Effective Clinical Practice*. 1999 Jul-Aug; 2(4): 152-157.
3. Anderson DR, Patil S, **Kamina A**, Penson DF, Peduzzi P, Concato J. Validation of a Staging System for Evaluating Prognosis in Prostate Cancer. *Connecticut Medicine*. 2000 Aug; 64(8): 459-464.
4. **Kamina A**, Makuch RW, Zhao H. A Stochastic Modeling of Early HIV-1 Population Dynamics. *Mathematical Biosciences*. 2001 Apr; 170(2): 187-98.
5. Concato J, Peduzzi P, **Kamina A**, Horwitz R. A Nested Case-Control Study of the Effectiveness of Screening for Prostate Cancer: Research Design. *Journal of Clinical Epidemiology*. 2001 June; 54(6): 558-564.
6. Jackson JC, Hart RP, Gordon SM, **Shintani A**, Truman B, May L, Ely EW. Six Month Neuropsychological Outcomes of Medical Intensive Care Unit Patients. *Critical Care Medicine*. 2003 Apr; 31(4): 1226-1234.
7. Ely EW, Truman B, **Shintani A**, Thomason JW, Wheeler AP, Gordon S, Francis J, Speroff T, Gautam S, Margolin R, Sessler CN, Dittus R, Bernard GR. Monitoring Sedation Status over Time in ICU Patients: Reliability and Validity of Richmond Asitation Sedation Scale (RASS). *Journal of the American Medical Association*. 2003 June; 289(22): 2983-2991
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D. BOOK REVIEW

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ACADEMIC CITATION FREQUENCY:

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