**CURRICULUM VITAE**

**BIOGRAPHICAL**

Name:Robert M. Arnold, MD Birth Date: 11/12/1957

Home Address: 1232 N Highland Ave Birth Place: Vancouver,

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Pittsburgh, PA 15213

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Medical Licensure: Pennsylvania

# EDUCATION AND TRAINING

**UNDERGRADUATE:**

1982 University of Tennessee, Memphis

Medical Ethics Practicum Certificate

University of Tennessee, Knoxville

Graduate level philosophy with emphasis on medical ethics

1983 University of Missouri, Kansas City BA, Biology and Philosophy Outstanding Achievement

**GRADUATE:**

1983 University of Missouri, Kansas City School of Medicine Doctor of Medicine

**POSTGRADUATE:**

1983-1986 Rhode Island Hospital, Providence, Rhode Island General Internal Medicine Residency Training Program

1986-1988 University of Pennsylvania, Philadelphia, Pennsylvania Robert Wood Johnson Foundation Clinical Scholar

Summer Kellogg Foundation) Fellowship in Public and Health Policy

1986 (worked at the Office of Technology Assessment on the ethical implications of insurers’ and employers’ use of prognostic tests)

1997- American Association of Physician and Patient Facilitator in Training

1997-2001 Project on Death in America Faculty Scholar

2013 Brocher Research Scholar, Switzerland

# APPOINTMENTS AND POSITIONS

1980-1981 Co-Instructor Correlative Series in Medical Ethics, University of Missouri, Kansas City School of Medicine

1981 Graduate Assistant Medical Ethics Course, University of Tennessee, Knoxville

1985 Instructor Community Health Clerkship, Brown University Program in Medicine

1984-1986 Founder, Co-Director Curriculum in Medical Ethics, Rhode Island Hospital General Internal Medicine Residency Training Program

1985-1986 Co-Organizer, Instructor Ethics Component of Introduction to Clinical Medicine Brown University Program in Medicine

1986-1988 Instructor Seminar in Medical Ethics, University of Pennsylvania School of Medicine

1987-1988 Instructor Ethics Component of Medicine Clerkships University of Pennsylvania School of Medicine

1988-present Director Clinical Ethics Training Program University of Pittsburgh School of Medicine Coordinate ethics component of medicine, pediatrics, surgery, psychiatry clerkships and residencies. Develop month-long elective in medical ethics for students, residents, and MA candidates in medical ethics.)

1988-present Director Fellowship in Medical Ethics University of Pittsburgh School of Medicine

1988-1993 Assistant Professor Division of General Internal Medicine University of Pittsburgh School of Medicine

1990-1993 Clinical Coordinator Primary Care Internal Medicine Residency Program University of Pittsburgh School of Medicine

1990-present Staff Physician Pittsburgh AIDS Center for Treatment

1990-1996 Assistant Professor University of Pittsburgh Department of Psychiatry (Secondary Appointment)

1992-present Associate Director for Education Center for Bioethics and Health Law University of Pittsburgh

1993-1995 Director Primary Care Residency Training Program University of Pittsburgh

1994-2000 Associate Professor of Medicine Division of General Internal Medicine University of Pittsburgh

1995-1996 Co-Director Primary Care Residency Training Program University of Pittsburgh

1995-1997 Director of Ambulatory Education Division of General Internal Medicine University of Pittsburgh

1996-2000 Associate Professor of Family Medicine and Clinical Epidemiology University of Pittsburgh

(Secondary Appointment)

1997-present Affiliate Faculty, Center for Research on Health Care

1999-present Core Faculty, Center for Research on Health Care

1997-present Director, Section of Palliative Care and Medical Ethics

1997-present Assistant Medical Director, Palliative Care Institute for Quality and Medical Management, UPMC Health System

Renamed the Institute for Performance Improvement (2000)

1998-present Member, University of Pittsburgh Cancer Institute, Clinical Investigation Unit; Biobehavioral Program

1998-present Associate Director for Research Center for Bioethics and Health Law University of Pittsburgh

1999-present Core Faculty, Center for Research on Health Care

2000-present Professor Department of Medicine

2000-present Professor of Family Medicine (Secondary Appointment) University of Pittsburgh

2000-present Professor of Psychiatry (Secondary Appointment) University of Pittsburgh

2000- 2016 Dr. Leo H. Criep Chair in Patient Care

2002-present Co-Director, UPCI Behavioral Medicine, Section of Palliative Care (Pain, Rehabilitation and Supportive Care)

2002-present University of Pittsburgh Graduate Faculty

2002-2009 Co-Director, Institute to Enhance Palliative Care

2002-present Director, Institute for Doctor-Patient communication

2003-present Affiliate Faculty, Center for Healthcare equity research and promotion

2003-09 Director, Palliative Care Fellowship Training Program

2005-present Member, Advisory committee, Children’s Hospital supportive care program

2005- present UPCI Protocol Review Committee

2005-present University of Pittsburgh School of Medicine Academy of Master Educators

2009-present Secondary appointment, Professor, Clinical and Translational Science Institute

2009-present Director, Institute to Enhance Palliative Care

2010-present Chief Medical Officer, Palliative and Supportive Institute, UPMC Health System

2013-present Associate Faculty member of CRISMA and Critical Care Medicine Ethics and Decision-Making Program

2016 Member, Carnegie Mellon University, Center for Ethics and Policy

2016 Distinguished Service Professor of Medicine

# CERTIFICATION AND LICENSURE

# BOARD CERTIFICATION:

1986 Internal Medicine

2000 Palliative Care (ABHPM)

2005 AAHIVM HIV Specialist

Renewed 2006

2008 Hospice and Palliative Medicine (ABIM)

# PROFESSIONAL MEMBERSHIPS/ACTIVITIES

Accreditation Council for Graduate Medical Education

Accreditation Appeal committee, Hospice/Palliative Medicine 2010-

AcademyHealth

Annual meeting Abstract review 2017

Albert Schweitzer Fellowship Program, Pittsburgh 2006-2016

American Association of Bioethics

Association of American Medical Colleges

Group on Educational Affairs (GEA)/Group on Student 2005, 2006,2008

Affairs (GSA) Small Group Discussion and

Mini- Workshop proposals reviewer

MedEdPORTAL project Reviewer 2006-16

RIME reviewer 2007-present

GEA Small group and workshop reviewer 2007-2010

American Balint Society

Balint Intensive Leadership Training 1998, 1999

American Cancer Society

Palliative Care committee, Peer Review committee 2006, 2007-2011

American College of Physicians

Fellow 2008-

Representative Advisory committee for the Pain 2008-

And Palliative Medicine Specialty Section council

Pain summit

Dynamed commentaries 2010

American Academy of HIV Medicine 2003

American Academy on Physician and Patient (currently American Academy on Communication in Healthcare)

Facilitator in Training, 1997-2002 Promotion to II 1999 Promotion to III 2001 Graduation to faculty 2001

Director, Winter meeting 2003

Director, Summer national meeting 2004

Fellow 2009

FIT Mentor, Rob Cohen 2013-

George L Engel Award 2015

Abstract reviewer for National Meeting 2016

Abstract for International meeting (ICCH) 2017, 2018

ENRICH steering committee 2019

American Academy of Hospice and Palliative Medicine National meeting planning committee 1999 Chair, National meeting 2000 Chair, Publication committee 2001 Member, Board of Directors 2002-2007 Liaison Task Force Member, National Consensus 2002-04 Project for Quality Palliative Care: Essential Elements and Best Practices

Advisory Committee member 2005-

Member, College of Palliative Care 2005-06

President-elect 2004

President 2005

Past President 2006

Chair, Task force for hospital palliative medicine

Education 2006

Nomination committee 2006

National meeting committee 2006

Award committee 2006

Clinical Scholars Program, Site director 2007-

HP test writing committee 2007-

Abstract committee 2008-2009

Quality and research committee 2008

Fellow 2008

Advisor, Strategic task force to 2008

support Academic programs

Educational Exchange Review committee 2009, 2010,

2011, 2012

Development Task Force 2010

Representative to AAMC’s [Council of Academic Societies](http://www.aamc.org/members/cas) 2010-12

PDIA Palliative Medicine Leadership Award 2011

Visionary in Palliative Care 2013

Clinical Qualty Measures Working Group 2017-19

Technical Specifications for cCQM workgroup 2017

American Academy of HIV Medicine

American Association of Medical Colleges

RIME external reviewer 2004-6

2008-10

American Board of Hospice and Palliative Medicine Member, Board of Trustees 2001- Diplomat 2002-2009 Chair, Test writing committee 2002-05

American Geriatric Society Legislative Affairs Committee, Pennsylvania Chapter, 1992-94

American Hospice Foundation 2000-2002 Member, End of Life Template Work Group

American Federation of Clinical Research

American Medical Association EPEC speaker List Virtual Mentor Project EPEC Trainer’s Guide, Consultant

American Medical Students Association

American Medical Women’s Association

American Public Health Association

American Society of Addiction Medicine 2008-

American Society of Bioethics and Humanities Secretary/Treasurer 1998 National Meeting, Chair,

Abstract selection committee 1999, 2010 Member, Hospice and Palliative care interest group 1998-present Distinguished Service Award 2000 Clinical Ethics Task Force 2001

Task Force to educate ethics consultants 2003-

Committee to update the Core competency 2006-

For ethics consultants

Program Evaluation Task Force 2010

American Society of Law, Medicine and Health care

American Society of Nephrology 2014

American Thoracic Society

Ad Hoc committee on Dyspnea in seriously ill patients 2008

Association for Practical and Professional Ethics

Carol F. Reynolds Historical Society

Duke Institute on End of Life Care 2001 Advisory Board

European Association for Communication in HealthCare

Reviewer for National meeting 2014, 2016

EPERC 2002

National Fast Fact Peer Review Committee 2010-present

European Association for Palliative Care 2003-present

Highland Park Community Club, Board of Directors 2004-08

HIV Medicine Association 2000-2011 Member

International Association of Bioethics

Israeli Science Foundation, Reviewer 2005

Jewish healthcare foundation, Consumer Guide Advisory Board 2004

Last Acts Campaign Member, Provider Education Steering committee 2000

Promoting Excellence in End-of-Life Care 2000 Member, ICU Peer Workgroup,

Midwest Bioethics Center 1998-present Member

National Heart, Lung, and Blood Institute Data Safety and Monitoring Board, Peripheral Arterial Disease-Pilot Study, 1993

National Holocaust Museum, Science and Medicine Advisory 2006

group

National Cancer Research Institute (NCRI)

Supportive and Palliative Care (SuPaC)

Research Collaboratives, UK

Reviewer 2005

National (Multiple Disease) Palliative Care Faculty 1977

Palliative Care Research Cooperative, Member 2016

Writing subcommittee 2016

Scientific Review Committee 2017-2019

Pallimed

Writers 2018

Pennsylvania Cancer Pain Initiative Board of Directors 1997-2002 General Member

Pennsylvania Cardiovascular health consortium, 2003

End of life Care workgroup

Physicians for Human Rights

Physicians for a National Health Program

Physicians for Social Responsibility Member, Philadelphia Steering Committee 1986-1988 Member, National Board of Directors 1986-1990 National Treasurer, Executive Committee 1989-1990 Member, Pittsburgh Steering Committee 1988-1991 Chair, Pittsburgh Steering Committee 1990-1991

Pittsburgh Schweitzer Fellows Program Advisory Board 1997-

Society for Bioethics Consultation

Society of General Internal Medicine Chair, Psychosocial/Ethics Workshop Subcommittee

for National Meeting 1991, 1995,

1996

Member, Psychosocial/Humanities Workshop

Subcommittee for National Meeting 1992, 2008

Member, Ethics Committee, 1993

Co-Chair 1994-1995

Reviewer, Psychosocial and Humanities abstract

committee for National Meeting 1995

-Co-chair 2003

-Co-Chair 2006

Best pre-course award, Communicating

with Patients 1998-1999

at the End of Life, National Meeting

Reviewer, Qualitative Abstract committee for 2000

National Meeting

Reviewer, Qualitative and Humanism Abstracts

committee for National Meeting 2001, 2002,

2003, 2006

Reviewer, Pre-meeting conferences for

National Meeting 2001

2nd highest ranked pre-course at 2000-2001,

national meeting award 2002-3

Member, Pre-course National meeting 2003

Sub-committee

Reviewer, National Meeting Ethics and 2006

Subcommittee Workshop review committee

Reviewer and Co-Chair, National Meeting, 2007

Medical Ethics and Humanities Workshops

Reviewer, National meeting, Geriatrics abstracts 2008, 2010

2011

Reviewer, Clinical vignette 2010, 2011

Reviewer, Medical Education and Scholarship 2013

Reviewer, Clinical Vignettes 2014

Reviewer, Workshop, Geriatrics and end of life 2017

Reviewer, Abstracts, Geriatrics and end of life 2018

Society for Health and Human Values

Founder and Steering Committee Member

Resident Interest Group 1985-1988, 1991-1994

National Program Coordinator 1988

Nominating Committee 1988

Treasurer/Secretary 1990-1992

Council Member 1989-1992

Reviewer for National Meeting 1988-1989 1991-1992, 1996- 1997, 1997-98

President-elect 1995-96

President 1996-97

Negotiating committee, consolidation with 1995-1997

American Association of Bioethics and Society

Bioethics Consultation

Society for Clinical and Translational Science 2009-present

Thrombolysis and Counterpulsion to Improve Cardiogenic Shock Survival (TACTIC) Data Safety and Monitoring Board 1996-2000

Faculty Associate, University of Pittsburgh, University Center 1990-present for Social and Urban Research

UMKC School of Medicine

Ad Hoc Endowed Chair Strategic 2004-

Assessment committee

UNOS Region 2, Ethics Committee member 1998-2001

Up-To-Date, Section editor, Palliative Care – General Principles 2012-2015

Co-Editor-in-Chief for Palliative Care 2106

International Union Against Cancer (UICC) Fellow 2002

Values, Ethics & Rationing In Critical Care (VERICC) Task Force 2003-

Member

Vital Talk, Secretary 2012

Western Pennsylvania End-of-life coalition, 2001-

Advisory board member

**REVIEWER:**

Academic Psychiatry

American College of Cardiology, Essentials of Cardiovascular Care in Older Adults Curriculum (Palliative care)

American J of Bioethics

American Journal of Hospital Pharmacy

American Journal of Medicine

American Journal of Transplantation

Annals of Internal Medicine

(top 10% reviewers 1998, 2000, 2003, 2006, 2008; top 25% 1999,top 30% 2004; top 10% 2009)

Annals of Medicine

Archives of Internal Medicine/JAMA-Internal Medicine

BMC Palliative Care

Chest

Clinical Research

Clinical Journal of the American Society of Nephrology

Critical Care Medicine

Digestive Diseases and Sciences

Hastings Center Report

JAMA

JAMA Ooncology

Johns Hopkins Advanced Studies in Medicine

Journal of Aging and Health

Journal of the American Geriatrics Society

Journal of Applied social psychology

Journal of Clinical Ethics

Journal of Clinical Oncology

Journal of Critical Care

Journal of General Internal Medicine (top 10% reviewers 1997, 2001)

Journal of Health, Politics, Policy and Law

Journal of Hospital Medicine

Journal of Pain

Journal of Pain and Symptom Management

Journal of Palliative Medicine

Journal of Pediatrics

Journal of Urban Health

Kennedy Institute Journal of Ethics

Journal of Medical Ethics

Milbank Memorial Quarterly

New England Journal of Medicine

Oncology

Ochsner Journal

Oxford University Press

Palliative Medicine

Patient Education and Counselling

Pediatrics

Social Science and Medicine

The Journal of Aging & Health

Western Journal of Medicine

Grants

National Palliative care research center

American Cancer Society

Macmillan Research Grants Scheme

Yorkshire Cancer research grants

**EDITORIAL BOARD:**

Journal of General Internal Medicine 1990-1994

Journal of Palliative Medicine 1997-present

Evidence Based Reviews in Palliative Medicine

2003-present

PC FACS 2006-present

Asso. Editor-in-Chief 2016-present

Journal of Opioid Management 2008-2017

Supportive Care in Cancer (communication editor) 2008-present

Annals of Palliative Medicine 2013-present

Pain Studies and Treatment 2013-present

Up to Date Section Editor, Palliative Care General 2013- 2016

Up to Date Topic Co-Editor, Palliative care 2016-present

Fast Facts and Concepts 2014-present

**ABSTRACTOR:**

APDIM Educational Clearinghouse Teaching Medical Ethics 1989-present

Miles Annotated Bibliography of Doctor-Patient Communication-Medical Ethics 1992

**GUIDELINE DEVELOPMENT:**

Advisor for medical ethics section, Federated 1996, 2000 Council of Internal Medicine Task Force, Graduate Education in Internal Medicine: A Resource Document http://www.acponline.org/fcim/

Advisor for palliative care section, Federated 2000 Council of Internal Medicine Task Force, Graduate Education in Internal Medicine: A Resource Document http://www.acponline.org/fcim/

ACP, PIER guidelines on pain management 2000-present

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# HONORS

1976-1983 University Scholar

1980 Phi Kappa Phi

1981 Omega Delta Kappa

1983 Vice Chancellor Award for Outstanding Community Service

1983 Mosby Book Award

1985 Outstanding Young Man in America

1988 AMSA “Medicine’s Rising Stars”

1992 2000 Notable American Men

1992 Men of Achievement

1992 Who’s Who Among Young Americans

1995 Alpha Omega Alpha (AOA) Faculty inductee

1996 Who’s Who in Medicine and Healthcare

1999-2001 Who’s Who in the World

2000 ASBH Distinguished Service Award

1998 University of Missouri-Kansas City Alumni Achievement Award, Arts and Sciences

2003 University of Missouri-Kansas City Medical School Alumni Achievement Award, Taking wing

2003 Guide to America’s Top Physicians

2004 Parkway High School Alumni Hall of Fame

2005 Who’s Who in Medical Sciences Education

2006-18 Best Doctors in America

2006-07 Who’s Who in Medicine and healthcare

2008 AAHPM and Journal of Palliative Medicine, Pioneers in Palliative care

2008 University of Missouri-Kansas City Alumni of the year

2009, 2014 Global Who’s Who in Medical Sciences

2010 University of Pittsburgh William I Cohen Award is given for Excellence in Clinical Skills Instruction

2010 Strathmore’s who’s who registry and global network for outstanding professionals

2010-2016 *Pittsburgh Magazine* Top Doctors

2010 University of Pittsburgh Golden Apple nomination

2011 Who’s Who of World Class business leaders

2011 AAHPM Project on Death in America (PDIA) Palliative Medicine National Leadership Award

2012 *US News and World Report* Top 1% of doctors

2013 AAHPM Lifetime Achievement Award

2014 AAHPM Visionary in Palliative Care Award

2015 University of Pittsburgh, ICRE Distinguished Research Mentor Award

2015 American Academy of Healthcare Communication George L Engel Award

2016 Pittsburgh Business Times Health Care Heroes

2016 Patricia Price Brown Award in Ethics

2017, 2018 Who’s Who in the World

2018 Association of Specialty Professor Eric Neilson Award

2018 Albert Nelson Marquis Lifetime Achievement award

**PUBLICATIONS**

<https://www.ncbi.nlm.nih.gov/sites/myncbi/1juL2mjgY8eA5/bibliography/53005570/public/?sort=date&direction=ascending>

<https://scholar.google.com/citations?hl=en&view_op=list_works&gmla=AJsN-F7kYwhmpeZVJzZ3NfHY15fIwUGTwVgj4E-mu2oCI4aJa6UEc8ZBdBZKD7JK-bxJ25IH9DXC_fR_J1Nc-9AIgJ9Kfl9aQ_kUPvGxQ3Tx47HnT9B59NY&user=xG1UksAAAAAJ>

**REFEREED ARTICLES:**

1. Thompson M, **Arnold RM**, Bogart M, et al. Symptomatic upper extremity venous thrombosis associated with permanent transvenous pacemaker: A case report of two cases successfully treated with thrombolytic agents. *Chest* 1983 Feb; 83(2)274-5. PMID: 6822114
2. **Arnold RM**, Povar GJ, Howell JD. The humanities, humanistic behavior and the humane physician. *Ann Intern Med* 1987 Feb; 106(2):313-8. Erratum in: *Ann Intern Med* 1987 May;106(5):784. PMID: 3800189
3. **Arnold RM**, Nissen JC, Campbell NA. Ethical issues in a drug information center. *Drug Intell and Clin Pharm* 1987 Dec;21(12):1008-11. PMID: 3428152
4. **Arnold RM**, Forrow L, Wartman S, et al. Teaching clinical medical ethics: a model programme for primary care residency. *J Med Ethics* 1988 Jun; 14(2):91-96. PMID: 3392724 PMCID: PMC1375562
5. Martin SC, **Arnold RM**. Parker R. Careers of women physicians: Choices and constraints. *West J Med* 1988 Dec; 149(6):758-60. PMID: 3074577 PMCID: PMC1026633

**Reprinted in** Brown P. Perspectives in Medical Sociology. Waveland Press, 2ed, 1996.

1. Forrow L, Arnold RM. Abstracting nonquantitative data. Journal of general

internal medicine. 1989; 4(3):267. PubMed [journal] PMID: 2775353

1. **Arnold RM**, Martin SC, Parker RM. Taking care of patients: Does it matter when the doctor is a woman? *West J Med* 1988 Dec; 149(6):729-33. Review. PMID: 3074572 PMCID: PMC1026627
2. Martin SC, **Arnold RM**, Parker RM. Gender and medical socialization. *J Health Soc Behav* 1988 Dec;29(4):333-43. PMID: 3253324 PMCID: PMC1026633

**Reprinted in** Cockerman WK. *The Sociology of Medicine*. Edward Elger Publishing LTD.

1. **Arnold RM**, Nissen JC, Haupt B. “What’s a pharmacist to do? *Hastings Cent Rep* 1989; 19:38-40. PMID: 2722483
2. Frader J, **Arnold RM**, Coulehan J, et al. The evaluation of clinical ethics teaching at the University of Pittsburgh Health Center. *Acad Med* 1989; 64:717-21.
3. Novack DH, Deterline BJ, **Arnold RM**, et al. Physicians’ attitudes toward using deception to resolve difficult ethical problems. *JAMA* 1989; 261:2980-85. PMID: 2716130
4. Fleetwood S, **Arnold RM**, Baron RJ. Giving answers or raising questions: The problematic role of institutional ethics committees. *J Med Ethics* 1989 Sep; 15(3):137-42. PMID: 2795627 PMCID: PMC1375804
5. Mandelbrot DA, Smyth WR, Norman SA, Martin SC, **Arnold RM**, et al. A survey of exposures, practices and recommendations of surgeons in the case of patients with human immunodeficiency virus. *Surg Gynecol Obstet* 1990 Aug; 171(2):99-106. PMID: 2382201
6. **Arnold RM**, Landau C, Nissen JC, et al. The role of partners in selecting a residency. *Acad Med* 1990 Mar; 65:211-215. PMID: 2407262
7. Parker LS, **Arnold RM**, Meisel A, et al. Ethical factors in the allocation of experimental medical therapies: The chronic left ventricular assist system. *Clin Res* 1990 Oct; 38(3):537-44. (Winner Nellie Wasserman Award 1990.) PMID: 2279367
8. **Arnold RM**, Forrow L. Rewarding medicine: Good doctors and good behavior. *Ann Intern Med* 1990 Nov 15; 113(10):794-98. Review. PMID: 2240883
9. Annas GJ, **Arnold RM**, Aroskar M, Batten M, et al. Bioethics’ statement on the US Supreme Court Cruzan Decision. *N Engl J Med* 1990; 323:686-87. PMID: 2385279
10. Forrow L, **Arnold RM**, Frader J. Teaching clinical ethics in the residency years: Preparing competent professionals. *J Med Philos* 1991 Feb;16(1):93-112. Review. PMID: 2010723
11. Forrow L, Taylor WC, **Arnold RM**. Absolutely relative: How research results are summarized can affect treatment decisions. *Am J Med* 1992 Feb; 92(2):121-4. PMID: 1543193
12. Adams J, **Arnold RM**, Siminoff LA, et al. Ethical conflicts in the prehospital setting. *Ann Emerg Med* 1992; 21(10):1259-65. PMID: 1416311
13. Goold SD, **Arnold RM**, Siminoff LA. Discussions about limiting treatment in a geriatric clinic. *J Am Ger Soc* 1993 Mar; 41(3):277-81. PMID: 8440851
14. Forrow L, **Arnold RM**, Parker LS. Preventative ethics: Expanding the horizons of clinical ethics. *J Clin Ethics* 1993; 4(4):287-94. PMID: 7803823
15. Pearlman RA, Miles SH, **Arnold RM**. Contributions of empirical research to medical ethics. *Theor Med* 1993 Sep; 14(3):197-210. PMID: 8259527
16. Baldecos A, **Arnold RM**. Gathering information and casuistic analysis. *J Clin Ethics* 1993 Fall; 4(3):241-45. PMID: 8219310
17. Youngner SJ, **Arnold RM**. Ethical, psychosocial and public policy implications of procuring organs from non-heart-beating cadaver donors. *JAMA* 1993 Jun 2; 269(21):2769-74. PMID: 8492404
18. Siminoff LA, **Arnold RM**, Virnig B, Caplan A. Can we ever solve the shortage problem? American public and organ, tissue, and corneal procurement from cadaver sources. *J Trans Coor* 1993; 3(2):51-59.
19. Levy MA, **Arnold RM**, Fine MJ, Kapoor WN. Professional courtesy: Current practices and attitudes. *N Engl J Med* 1993 Nov 25; 329(22):1627-31. PMID: 7695662
20. Lidz CW, **Arnold RM**. Rethinking autonomy in long-term care. *University of Miami Law Review* 1993 Jan; 47(3):603-23. PMID: 16617520
21. Ubel PA, **Arnold RM**, Caplan AL. Rationing failure: The ethical lessons of the retransplantation of scarce, vital organs. *JAMA* 1993 Nov 24; 270(20):2469-74. PMID: 8230624

**Reprinted** in Pence, G. (ed) *Classical Works in Medical Ethics: Core Philosophical Readings*, New York: McGraw Hill 1997.

**Reprinted** in Caplan AL, Coelho DH. The Ethics of Organ Transplants: The Current Debate. Prometheus Books, 1999.

1. Lidz CW, Mulvey EP, **Arnold RM**, Bennett NS, Kirsch BL. Coercive interactions in a psychiatric emergency room. *Behavioral Sciences and the Law* 1993; 3:269-80.
2. Hoge SK, Lidz CW, Mulvey EP, Roth LH, Bennett NS, Siminoff LA, **Arnold RM**, Monahan J. Patient, family, and staff perceptions of coercion in mental hospital admission: An exploratory study. *Behavioral Sciences and the Law* 1993; 3:281-94. PMID: 10150231
3. Ubel PA, **Arnold RM**. The euthanasia debate and empirical evidence: separating burdens to others from one’s own quality of life. *J Clin Ethics* 1994 Summer; 5(2):155-8. PMID: 7919490
4. **Arnold RM**. Should competent patients or their families be notified before HECs review the patient’s case? *HEC Forum* 1994 Jul; 6(4):257-9. PMID: 10137307

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1. Kuczewski MG, Wicclair MR, **Arnold RM** and Pinkus RL. Make my case: Ethics teaching and case presentations. *J Clin Ethics* 1994 Winter; 5(4):310-5. PMID:7749176
2. Siminoff LA, **Arnold RM**, and Miller DS. Differences in the procurement of organs and tissues by health care professionals. *Clin Transp* 1994; 8:460-465. PMID: 7819612
3. Ubel P, Zell MM, Miller DJ, Fischer GS, Peters-Stefani D, **Arnold RM**. Elevator talk: Observational study of inappropriate comments in a public space. *Am J of Med* 1995 Aug; 99(2):190-94. PMID: 7625424
4. Boehnlein JK, Parker RM, **Arnold RM**, Bosk CF and Sparr LF. Medical ethics, cultural values, and physician participation in lethal injections. *Bull Am Acad. Psych Law* 1995; 23(1):129-134. PMID: 7599365
5. Ubel P, **Arnold RM**. The unbearable rightness of bedside rationing. Physician duties in a climate of cost containment. *Arch Int Med* 1995 Sep 25; 155(17):1837-42. PMID: 7677549

**Reprinted in** Glaser JW, Hamel RP. *Three Realms of Managed Care*. Sheed and Ward. 1999

1. Fox E, **Arnold RM**, Brody B. Medical ethics education: past, present, and future. *Acad Med* 1995 Sep; 70(9):761-69. PMID: 7669152
2. Ubel PA, **Arnold RM**, Gramelspacher GP, Hoppe RB, Landefeld CS, et al. Acceptance of external funds by physician organizations: Issues and policy options. *J Gen Int Med* 1995 Nov; 10(11):624-30. PMID: 8583265
3. Arnold, RM and Youngner SJ. Time is of the essence: The pressing need for comprehensive non-heart-beating cadaveric donation policies. *Trans Proc* 1995 Oct;27(5) 2913-7; discussion 2917-21. PMID: 7482964
4. **Arnold RM**, Dresser R, Hefner P, Offner SK. Baboon-to-human transplants: should we proceed? *Making the Rounds in Health, Faith and Ethics* 1995 Oct 9; 1(3):1, 3-4, 8. PMID: 11653222
5. **Arnold RM**, Dresser R. Ethical Issues Associated With Xenotransplantation: The Case of Baboon Bone Marrow to Human Transplantation. *Molecular Diagnosis.* 1996 Sep: 1(3):239-42. PMID: 10462566

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1. Siminoff LA, **Arnold RM**, Caplan A, et al. Public policy governing organ and tissue procurement in the U.S.: Results from the national organ and tissue procurement study. *Ann of Int Med* 1995; 123:10-17. PMID: 7762908
2. Siminoff LA, **Arnold RM** and Caplan AL. Health care professional attitudes toward donation: Effect on practice and procurement. *J Trauma* 1995 Sep; 39(3):553-59. PMID: 7473923
3. **Arnold RM**, Siminoff, LA and Frader JE. Ethical issues in organ procurement: A review for intensivists. *Critical Care Clinics* January, 1996; 12(1):29-48. PMID: 8821008
4. Swigart V, Lidz C, Butterworth V and **Arnold RM**. Letting go: Family willingness to forgo life support. *Heart and Lung* 1996: 25(6), 483-494. PMID: 8950128
5. Adams J Verdile V, Arnold R, Ayres J. Patient refusal of care in the out-of-hospital setting Academic ER Medicine 2(8) 19963(10):948-51. PMID: 8891042
6. Fox E, **Arnold RM**, Evaluating outcomes in ethics consultation research. *J Clin Ethics* 1996 Summer; 7(2):127-138. Review. PMID: 8889888
7. Siminoff LA, **Arnold RM**. Consent to donation: A review. *Tissue and Cell Report* 1996;3(1):19-26.
8. Aulisio MP, **Arnold RM**. Exclusionary criteria and suicidal behavior: A Comment on “Should a Patient Who Attempted Suicide Receive a Liver Transplant?” by Forster, Bartholome, and Delcore. *J Clin Ethics.* 1996 Fall;7(3):277-283. PMID: 8981199
9. **Arnold RM**. Is “cold calling” unethical research. *Monash Bioethics Review*. 1997: 15(4):S21-S25.
10. Siminoff LA, **Arnold RM**, Caplan AL. Asking for altruism when death occurs: Who asks for organ donation and why? *Trans Proc.* 1996 Dec: 28(6):3632-8. PMID: 8962401
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70. Barnato A, Hsu H, Bryce C, Lave J, Emlet , Angus D, Arnold R. Variation in decision making for a critically ill patient with end-stage cancer: A Pilot simulation study. Society for Medical Decision Making. 2007. (oral presentation)
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88. Appelt CJ, Rodriguez KL, Switzer GE, Luther JF, Sonel, AF, **Arnold RM**. Patient-Initiated Dialogue in Chronic Heart Failure Care: Implications for Recovery-Oriented Care.  VHA National Mental Health Conference, 07/2008: Washington, DC.  (Accepted for Presentation).
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90. **Arnold RM**, Milberg L, Cohen WC. Teaching to teach communication skills: A model program. October 17-19, 2008 Madison, WI (Oral presentation)
91. Back A, **Arnold RM**, Tulsky J, Bailes W. Communication skills for transtions in goals of care. American Academy of Hospice and Palliative Medicine pre-course. March 25-28, 2009 (pre-course).
92. Lin CY, Farrell MH, **Arnold RM**, Lave JR, Angus DC, Barnato AE.  Acute care programs, policies, and practices relevant to end-of-life-care:  A survey of Pennsylvania hospitals*. J Gen Int Med*. Apr 2008. Vol 23, Suppl 2, 243.
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94. Boss RD, Donohue PK, **Arnold, RM**. Adolescent Parents with Critically ill Infants: parent- provider communication. AAHPM National meeting 2009 (poster).
95. Pollak, KI, Arnold, RM, Jeffreys, AS, Alexander, SC, Olsen, MK, Abernethy, AP, Rodriguez, KL, Tulsky, JA. Which patients with advanced cancer express negative emotions to their oncologists and how do oncologists respond? Poster presented at American Society for Preventive Oncology Conference. Tampa, FL, March 2009.
96. Bryce CL, Angus DC, **Arnold RM**, Chang CCH, Farrell MH, Manzarbeitia C, Marino IR, Kozin K, Roberts MS.  Sociodemographic differences in early access to liver transplantation services.  American Transplant Congress 2009 (oral abstract).
97. Hughes K, Dado, D, Rodriguez K, **Arnold RM**, Chang, J.Screening for past alcohol drinking behavior among pregnant women. Alcohol, Tobacco, and Other Drugs program, 137th APHA Annual Meeting & Exposition Philadelphia, PA. 2009 (poster presentation).
98. Boss R, Hutton N, Donohue PK, **Arnold RM**. Neonatologist Training to Guide Family Decision-Making for Critically Ill Infants. Pediatric Academic Societies’ Annual Meeting in Baltimore, Maryland 2009. (poster)
99. Meiksin R, Zickmund S, Bhargava T, Arnold R, Dado D, Frankel R, Rodriguez KL, Ling B, Chang JC.Now is the Chance: Patient-Provider Communication about Unplanned Pregnancy During the First Obstetrics Visit.  International Conference on Communication in Healthcare, October 2009 (oral presentation)
100. Purnell CA, **Arnold RM**. Evaluation and Improvement of Communication with Radiologic Breast Biopsy Patients. Society of General Internal Medicine. April 2009. Poster
101. Buss M. Block S, **Arnold RM** et al. National survey of oncology fellows on palliative care education. American Society of Clinical Oncology National Meeting Orlando 2009. (poster)
102. Schellhorn S, Buss M. Block S, **Arnold RM** et al. Palliative Care Training and Predictors of Burnout in Oncology Fellows. American Society of Clinical Oncology National Meeting Orlando 2009. (poster)
103. Bhargava T, Zickmund S, Meiksin R, **Arnold R,** Dado D, Frankel R, Rodriguez KL, Ling B, Chang JC.*What I’m Worried About Is…:* How Obstetric Care Providers Respond to Patients’ Biomedical and Psychosocial Concerns in the First Obstetric Visit.  International Conference on Communication in Healthcare, October 2009. (oral presentation)
104. Green JA, Mor MK, Shields AM, Porter P, Palevsky PM, FineMJ, **Arnold RM**, Weisbord SD. Health Literacy in Hemodialysis Patients. American Society of Nephrology. 2009.
105. Hamilton MF, Watson RS, Weinstein E, Wilkie L, **Arnold RM**, Thompson A. An intensive, simulation-based communication course for pediatric critical care medicine (PCCM) Fellows. Society for Critical Care Medicine. 2010. (Poster presentation)
106. **Arnold RM**, Nelson J, Prendergast T, Weinstein E, Emlet L, Barnato AE, Back A. Critical Care Communication: A Small Group Intervention for Intensivists. National Palliative Care Research Center National Meeting. 2009 (poster)
107. Barnato AE, Sperlazza CL, Tate JA, Rodriguez KL, **Arnold RM**. ICU Quality, Provider Morale and Patient/Relative Satisfaction in Two Hospitals at the Extremes of End-of-life Treatment Intensity. Society for Medical Decision Making. Los Angeles. 2009. (poster)
108. Barnato AE, Sperlazza CL, Tate JA, Rodriguez KL, **Arnold RM**.. Provider and Organizational Norms of Care: A Study of Two Hospitals at the Extremes of End-of-life Treatment Intensity. Society for Medical Decision Making. Los Angeles. 2009. (poster)
109. Morgan P, Strand J, Alexander S, Pollack K, **Arnold RM**, Tulsky J, Jeffreys A, Olsen M, Abernathy A, Manusov J. Comparison of attitudes among oncologists, nurses and physician assistants about emotion. National Physician Assistant Program. 2009 (poster).
110. **Arnold RM**, Schwartz C, Fromme E. Working with Patients and Families Who Want “Everything” Society for General Internal Medicine National meeting. 2009. (Workshop presentation).
111. Childers JC, Wood G, McNeil M, **Arnold.** Pain Theater. ” Society for General Internal Medicine National meeting. 2009. (Workshop presentation).
112. Childers JC, Wood G, McNeil M, **Arnold**. Pain Theater. ” Association of Program directors of Internal Medicine. 2009. (Workshop presentation).
113. Fromme E, **Arnold RM**, (with various other presenters). Update in Palliative Care. Society for General Internal Medicine National meeting. 2006, 07, 08 and 09 (Workshop presentation).
114. Wood G, Childers JC, McNeil M, Arnold. Pain Theater. ” American Academy of hospice and palliative medicine. 2010 AAHPM/HPNA Interactive Educational Exchange National meeting. 2009. (Workshop presentation).
115. Boss R, Donohoe, P, Roter D, Larson S, **Arnold RM**. Doctor, what do you think I should do? 2010 Pediatric Bioethics Conference. Seattle, WA. (Oral Presentation).
116. Clayton JM, Adler JL, O’Callaghan A, Martin P, Hynson J, Butow PN, Powerll PN, **Arnold RM**, Tulsky JM, Back AL. Communication a key skill for palliative medicine fellow: Development and evaluation of an Australian training module. ANZSPM 2011.
117. Wilkie L, Bogen D, Ploof D, Choi S, **Arnold RM**. The ERReD study: Error recognition, reporting and disclosure. 2010 Leo Creip Symposium on Doctor-Patient Communication. Pittsburgh (presentation).
118. **Arnold RM**, Back AL, Emlet LL, Barnato, AE, Weinstein E, Nelson JE. A Communication Course for Intensive Care Unit Fellows. *M**edical Encounter.* 2010: 24 (3): 189. American Academy of Communication in HealthCare 2010 National Meeting. Phoenix AZ. (presentation)
119. Alexander SC, Morgan P, Strand J, Pollak KI, Abernethy A, Jeffreys A, Olsen M, **Arnold RM**, Rodriguez KL, Garrigeues SK, Manusov JRE, Tulsky RA. How do non-physicians clinicians respond to cancer patient’s expressed emotions? *Medical Encounter.* 2010: 24 (3): 223. American Academy of Communication in HealthCare 2010 National Meeting. Phoenix AZ. (poster)
120. **Arnold RM**. Tulsky JA, Back AL. Teaching communication skills in real time: The role of interventions. *Medical Encounter.* 2010: 24 (3): 226. American Academy of Communication in HealthCare 2010 National Meeting. Phoenix AZ. (workshop).
121. Lesnock JL, **Arnold R**, Meyn LA, Buss MK, Quimper M, Krivak TC, Edwards RP, Chang JC. Palliative Care Education in Gynecologic Oncology: A Survey of the Fellows Society of Gynecologic Oncologists 2011 Annual Meeting, Orlando, FL March 6-9, 2011
122. Patterson PD, Weaver MD, Weaver S, Rosen M, Todorova G, Weingart L, Krackhardt D, Lave J, **Arnold R**, Yealy DM, Salas E. [Abstract #77] Emergency Medical Technician perceptions of teamwork and conflict with familiar and unfamiliar partners. *Prehospital Emergency Care*, 2011; 15(1):123. PMID: 21091331
123. Uy J, White D, **Arnold RM**, Barnato A. Physicians’ Role in Decision Making about Life Support for an Acutely Unstable Critically Ill Elder with End-Stage Cancer. Poster presentation. American Thoracic Society meeting. 2011.
124. Spagnoletti C**,** Bui T**,** Fischer G**,** Gonzaga A, Rubio D, **Arnold R.** Implementation and Evaluation of a Web-Based Communication Skills Learning Tool for Training Interns in Patient-Doctor Communication. Oral presentation. UPMC/University of Pittsburgh 2011 GME Leadership Conference. February 25, 2011
125. Fischer GS, **Arnold RM**.Feasibility of a Brief Workshop on Palliative Care Communication Skills for Medical Interns.  Poster presentation. UPMC/University of Pittsburgh 2011 GME Leadership Conference. February 25, 2011
126. Chang JC, Alexander S, Holland CL, **Arnold RM**, Tulsky J, Pollak K. "Smoking is bad for babies": Examining Smoking Cessation Communication Among Obstetric Care Providers. American Public Health Asso. National Meeting. 2011. (oral presentation)
127. Chang JC, Holland CL, Schwab M, Dado D, Kraemer K, Rubio D, Rodriguez K, Day N, **Arnold RM**. Asking about Past Drug Use Among Pregnant Patients. American Public Health Asso. National Meeting. 2011 (poster)
128. Chang JC, Holland CL, Schwab M, Dado D, Kraemer K, Rubio D, Rodriguez K, Day N, **Arnold RM**. Obstetric care providers' screening for illicit drug use during pregnancy . American Public Health Asso. National Meeting. 2011. (oral presentation)
129. Cohen L, Ganzini L, Goldstein N, Arons S, Goy E, **Arnold RM**. Joking About Dr. Death: A Psychological Perspective of Murder and Euthanasia Accusations Leveled at Palliative Care Physicians. American Academy of Psychosomatic Medicine. 2011.
130. Halpern SD, Volpp K, Lowenstein G, Cooney E, Silva T, **Arnold RM**, Angus DC, Bryce CL. A randomized trial of default options in advance directives for patients with terminal lung diseases. Society Medical Decision Making. 2011. (oral presentation)
131. Chang JC, Holland CL, Schwab M, Rodgriguez K, Kraemer K, Rubio D, Day N and **Arnold R**. Discrepancy between computer and in-person disclosure of substance use during first obstetric visits. Submitted for oral presentation to International Conference on Communication in Healthcare Annual Meeting. Chicago October 2011.
132. Claxton R, **Arnold RM**. Learning To Learn:  The Practical Application Of Learning Theory. American Academy of Hospice and Palliative Medicine National Meeting. Denver March 2012. (workshop)
133. Childers JW, Pollak K, **Arnold RM**. Communication As A Dance:  What Palliative Care Providers Can Learn From Motivational Interviewing. American Academy of Hospice and Palliative Medicine National Meeting. Denver March 2012. (workshop)
134. Bicket K, Jackson V, Sachs G, Meier D, **Arnold RM**. Models And Approaches To Developing Integrated Palliative Care Systems. American Academy of Hospice and Palliative Medicine National Meeting. Denver March 2012. (workshop)
135. Chang JC, Holland CL, Schwab MK, Rodriguez KL, Kraemer K, Rubio D, Day N, **Arnold RM**. "Discrepancy between computer and in-person disclosure of substance use during first obstetric visits." Accepted for oral presentation2011 International Conference on Communication in Healthcare, Chicago, IL. (oral presentation)
136. Chang JC, Dado D, Hawker L, Cluss PA, Frankel R, Holland CL, Schwab MK, **Arnold RA**. How Obstetric Care Providers Ask Their Pregnant Patients about Intimate Partner Violence. Accepted for oral presentation at the National Conference on Health and Domestic Violence, March 2012 San Francisco.
137. Adler JL, O’Callaghan A, Clayton JM, Butow PN, **Arnold RM**, Tulsky JA, Back AL. Communication down-under: Developing a sustainable communication course for Palliative Medicine. Accepted for oral presentation2011 International Conference on Communication in Healthcare, Chicago, IL. (oral presentation).
138. Hall DE, Hanusa B, Fine MK, **Arnold RM**. Telling the truth: Do the VA’s procedure-specific informed consent specify the amount of information actually discussed between surgeons and patients. VA HRSD National meeting. 2012
139. Zickmund SL, Hanusa BH, Obrosky DS, Chapko MK, Bayliss NK, Switzer GE, Sevick MA, Zook CL, Mrvka AJ, **Arnold RM**. Racial disparities in the initiation of hepatitis C antiviral treatment. VA HRSD National meeting. 2012
140. Schuster R, **Arnold RM**, White D. Prevalence and associated factors with clinician surrogate conflict in the ICU. ATS International Conference 2012. (poster)
141. Barnato A, **Arnold RM**, Loewenstein G. The effect of emotion and physician communication behaviors on surrogates’ life sustaining treatment decisions: A randomized trial. Society of Medical Decision-Making. 2012 (oral presentation)
142. Song MK, **Arnold RM**. Physician communication during decision-making to start dialysis: Patient’s perspective. American Society of Nephrology, 2012. (oral presentation)
143. Boss RD, Donohue PK, Roter DL, Larson SM, Arnold RM. "This is a decision you have to make": using simulation to study prenatal counseling. Simulation in healthcare

journal of the Society for Simulation in Healthcare. 2012; 7(4):207-12. PubMed [journal] PMID: 22569285

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2. Hall DE, Morrison P, Nikolajski C, **Arnold RM**, Fine M, Zickmund S.informed Consent To Inguinal Herniorrhaphy And Cholecystectomy: Differences Between What Surgeons Say They Discuss And What They Actually Do Discuss. 8th Annual Academic Surgical Congress. February 5-7, 2013 (Oral presentation).
3. Maciasz R, **Arnold RM**, Chu E, Schechter Y. Does It Matter What You Call It? A Randomized Trial Of Language Used To Describe Palliative Care Services. Annual Assembly of the American Academy of Hospice and Palliative Medicine and Hospice and Palliative Nurses Association. New Orleans.2013 (oral presentation)
4. Scheunemann L, **Arnold RM**, White D. How well do physicians assist family members with the role of surrogate decision maker? An empiric analysis American Thoracic Society National Meeting. 2013. Philadelphia (oral presentation)
5. Phillips J, Dado DL, Frankel R, Arnoldr RM, Miller E, Chan, JC. “So are you safe from this guy?” Physician response to patient disclosure of intimate partner violence. 2013. ACP Western Regional Competition. Pittsburgh PA Nov. 2013
6. Song MK, Lin FC, Gilet CA, Arnold RM, Bridgman JC, Ward SE. Patient perspectives on informed decision-making surrounding dialysis initiation. Nephrology, dialysis, transplantation : official publication of the European Dialysis and Transplant Association - European Renal Association. 2013; 28(11):2815-23. PubMed [journal] PMID: 23901048, PMCID: PMC3811056
7. Hall DE, Hanusa B, Fine M, **Arnold RM**.  Documents and Discussions:  Do the VA’s procedure-specific informed consent documents specify the information actually discussed between surgeons and patients? 9th Annual Academic Surgical Congress. Oral Presentation. Feb 2014.
8. Croom, A., Stollings, S., Bovbjerg, D., **Arnold, R.** (2014). A Role for Behavioral Medicine on Palliative Care Consult Services: A Case Study of Services Provided at One Institution.  Poster to be presented at the annual meeting of the Society of Behavioral Medicine (SBM), Philadelphia, PA.
9. Chiarchiaro J, Buddadhumaruk P, **Arnold RM**, White DB. Prognosis In The Intensive Care Unit: Does Surrogates’ Satisfaction With Communication About Prognosis Predict More Accurate Expectations About Prognosis? 2014 National American Thoracic Society meeting. San Diego (poster).
10. Hall DE, Hanusa B, Fine M, **Arnold RM**.  The time required for IRB review at one VA Medical Center. Association of VA Surgery 2014 National Meeting. New Haven. Oral Meeting.
11. Nunez E, Schenker Y, Reynolds C, Dew MA, **Arnold R,** Barnato A. Acutely-bereaved Surrogates' Reflections on the Decision to Limit Life Support in the ICU. 2014 American Geriatric Society National Meeting. Poster
12. Merriam SB, **Arnold RM**, Spagnoletti. Assessing long term outcomes of a teaching communication skills course for fellows and faculty. National SGIM course. San Diego. 2014. Poster.
13. Scheunemann L, Cunningham T, **Arnold RM**. Buddadhumaruk P, White, D. The significance of both educating surrogates and eliciting patients’ preferences and values in ICU decision-making. Fink Scholar Day. 2014 (poster)
14. Mor MK, Sevick MA, Shields AM, Green JA, Palevsky PM, Arnold RM, Fine MJ, Weisbord SD. Sexual function, activity, and satisfaction among women receiving maintenance hemodialysis. Clinical journal of the American Society of Nephrology: CJASN. 2014; 9(1):128-34. PubMed [journal] PMID: 24357510, PMCID: PMC3878703
15. Chiarchiaro J, Buddadhumaruk P, **Arnold RM**, White, D. Prognosis In The Intensive Care Unit: Does Satisfaction with Prognostic Communication Reflect Understanding? Fink Scholar Day. 2014 (poster)
16. Rogal SS, Youk AO, Chapko MK, Hanusa BH, **Arnold RM**, Switzer GE, Sevick MA, Bayliss NK, Zook CL, Obrosky DS, Zickmund. Factors associated with Hepatitis C Treatment Eligibility. AALD. 2015 (poster)
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29. Walker, G, **Arnold RM** Pediatric pain assessment. Fast facts and concepts 2004.
30. Kwiatkowski K, **Arnold RM**, Barnard D. Prayer Request. Fast facts and concepts. 2004
31. Henson, CF, **Arnold RM**. Oral Mucositis: Diagnosis and assessment. Fast facts and concepts 2004.
32. Henson, CF, **Arnold RM**. Oral Mucositis: Prevention and treatment. Fast facts and concepts 2004.
33. Wilner, S **Arnold RM**. The Palliative Prognostic Score (PaP) Fast facts and concepts 2004.
34. Wilner, S **Arnold RM**. Pain Assessment in the Cognitively Impaired. Fast facts and concepts 2004.
35. Weinstein E, **Arnold RM**. Steroids in the treatment of bone pain. Fast facts and concepts. 2004
36. Wilner, S **Arnold RM**. The Palliative Performance Scale (PPS) Fast facts and concepts 2004
37. **Arnold RM**. The physician as a family member. Fast facts and concepts 2004
38. Shaffer S, **Arnold RM**. The medical management of carcinoid syndrome’s symptoms. Fast facts and concepts 2005
39. Himebach, A, **Arnold RM**, May, C Grief in Children and Developmental Concepts of Death. Fast facts and concepts. 2005
40. Chileres, JW, **Arnold RM**. Curtis JR. Prognosis in End-Stage COPD. Fast facts and concepts. 2005
41. Friedman T, **Arnold RM**. Transfer from the hospital to hospice. Fast facts and concepts. 2005
42. **Arnold RM**. Screening for depression in terminally ill patients. Fast facts and concepts. 2005.
43. Tsai S, **Arnold RM**. Prognosis in dementia. Fast Facts and concepts. 2005
44. Prentice N, **Arnold RM**. How to accurately complete a death certificate. Fast Facts
45. Quill T, **Arnold RM**. Evaluating request for hastened death. Fast Facts and concepts. 2006.
46. Quill T, **Arnold RM**. Responding to a request for hastening death. Fast Facts and concepts. 2006
47. Altman R, Milbrandt E, **Arnold RM**. Screening for ICU delirium. Fast Facts and concepts. 2006
48. Verrico MM, **Arnold RM**, Davison SN. Opioid dose adjustment in renal insufficiency. Fast Facts and concepts. 2006
49. LeBanc K, **Arnold RM**. Treatment of malignant ascites. Fast Facts and concepts. 2006
    1. LeBanc K, **Arnold RM**. Evaluation of malignant ascites. Fast Facts and concepts. 2006
50. Verrico MM, **Arnold RM**, Davison SN. Opioid dose adjustment in renal insufficiency. Fast Facts and concepts. 2006
51. Kendall A, **Arnold RM**. Conflict Resolution: Part 1. Fast Facts and concepts.2007.
52. Stoklosa J, **Arnold RM**, Peterson K. Anxiety in Palliative Care. Fast Facts and concepts.
53. Childers J, **Arnold RM**. Treatment of hepatic encephalopathy. . Fast Facts and concepts. 2007
54. Kendall A, **Arnold RM**. Conflict Resolution: Part 2 Principled negotiation. Fast Facts and concepts. 2007
55. Dolan B, **Arnold RM**. Determining prognosis in decompensated liver failure. Fast Facts and concepts. 2007
56. Hudson M, Weisbord S, **Arnold RM**. Prognostication in patients receiving dialysis. Fast Facts and concepts. 2007
57. Malhotra S, **Arnold RM**. Nightmares. Fast Facts and concepts 2002

Revised Mathotra S, **Arnold RM**, Patteson K. 2nd edition 2007

1. Posluszny D, **Arnold RM**. Managing one’s emotions as a clinician. Fast Fact and Concept #203. 2008
2. Sacks T, Weissman D, **Arnold RM**. Opiate poorly responsive pain. *Fast Fact and Concept.* 2009.
3. Lum H, **Arnold RM**. Asking about cultural beliefs in palliative care. *Fast Fact and Concept.* 2009.
4. Johnson JM, **Arnold RM**. Restless leg syndrome. Fast Fact and Concept. 2008
5. Lum H, **Arnold RM**. Asking about cultural beliefs in palliative care. *Fast Fact and Concept.* 2009.
6. Childers JW, **Arnold RM**. Treatment of pain in patients taking buprenorphine for addiction disorders. Fast Fact and concepts. 2009.
7. Posluszny DM, **Arnold RM**. Recovery strategies for miscommunication. Fast Fact and concepts. 2009.
8. Weissman D, Quill T, **Arnold RM**. The family meeting. Parts 1-6. Fast Fact and concepts. 2009.
9. Mehta R, **Arnold RM**. Tapentadol. Fast facts and concepts. 2009
10. Claxton R, **Arnold RM**. Treatment of Acute Venous Thromboembolism in Patients with Advanced Cancer. *Fast facts and concepts.*  2010.
11. Claxton R, Angus D, **Arnold RM**. Predicting Prognosis in the Intensive Care Unit. *Fast facts and concepts*. 2010
12. Mehta R, **Arnold RM**. Metastatic Spinal Cord Compression – Evaluation. *Fast facts and concepts*. 2010.
13. Mehta R, **Arnold RM**. Metastatic Spinal Cord Compression – Management. *Fast facts and concepts*. 2010.

# PROFESSIONAL ACTIVITIES

TEACHING RESPONSIBILITIES (current, previous responsibilities available on request):

## **Medical Students:**

* Faculty for first year medical students course on Doctor-Patient communication
* Teach sessions for second year medical student on palliative care, as well as develop and teach 2-3 large group sessions in the Medicine and Society course on advance care planning, mistakes, and giving bad news
* Attending two months/year for third year internal medicine students (until 2005)
* Co-ordinate and teach in the Center for Bioethics and Health Law curriculum for third year medical students on ethical issues in clinical medicine. Teach sessions in internal medicine, ambulatory care and pediatrics
* Faculty in the fourth year elective in medical ethics sponsored through the Center for Bioethics and Health Law
* Faculty in the fourth year students’ palliative care elective

## **Residents:**

* Faculty in morning report
* Teach 4-7 noon conferences a year on ethical issues and palliative care issues.
* Teach 3-5 pre-clinic conferences for interns and residents on dizziness, pain management, advance care planning, sinusitis and back pain.
* Developed and co-teach communication course for interns on giving bad news and advance care planning
* Faculty in PACT - teaching care of HIV positive patients for house staff and pain (2005-2017)
* Developed and teach in primary care intern palliative care curriculum
* Mentor 1-3 residents/year in either research in medical ethics or research in palliative care

## **Fellows/MA students:**

* Teach a summer case-based seminar series for MA students in Medical ethics
* Mentor Division of General Internal Medicine fellows with interest in medical ethics or palliative care.
* Teach in a course on teaching to teach communication skills
* Co-run a course on Theory in learning and teaching
* Teach in the Fundamentals in Palliative care course
* Teach in the Qualitative research methods course
* Mentor Palliative Care fellows
* Mentor 1-2 fellows a year

## **Other:**

* AAHPM Year-long mentoring program – R Boss, S Burns, Sarah Johnson and Kristin Chasteen
* See Table

## **GRANTS:**

1984-1985 “A model program in teaching residents medical ethics.”S.A. Wartman, Program Director, Brown Program in Medicine; Human Values in Medicine, Brown University, Providence, Rhode Island. (Principal Investigator) $2,000

1984 “Residency training in general internal medicine and/or pediatrics.”S.A. Wartman, Program Director, Division of Medicine HRSA, Public Health Services, DHHS, Washington, DC. (Co-Author of medical ethics portion) $55,054.

1988 “Attitudes among health professionals towards HIV-positive patients.”Philadelphia AIDS Commission, Philadelphia, PA. (Co-Principal Investigator) $2,500.

1990 “Physicians’ decision to discuss life-sustaining treatment.”Richard K. Mellon Foundation. (Principal Investigator) $25,000.

1989-1990 “Decision-making when entering the hospital.”MacArthur Foundation. (Co-Investigator) $38,310.

1990-1993 “Organ procurement: Dilemmas of required request.”Agency for Health Care Policy Research. (Co-Principal Investigator) $1,258,072.

1990-1991 N.A.S.A. Task force on research ethics. Member of task force to help N.A.S.A. 1994-1996 develop ethics policy on research ethics policy.

1992-1995 “AIDS and the quality of nursing.”National Center for Nursing Research. (Consultant) $233,335.

1992-1993 “Family decisions about life support.”National Center for Nursing Research. (Consultant) $35,000

1992 “Procuring organs from patients who have decided to forego life-sustaining Treatment.”HRSA, Public Health Services DHHS, Washington, DC (Principal Investigator) $8,000

“Procuring organs from patients who have decided to forego life-sustaining Treatment.”Greenwall Foundation. (Principal Investigator) $4,650.

1994-1998 “Required request: determinants of family consent.”Agency for Health Care Policy Research. (Co-Principal Investigator, Site Director 1996-1998) $4,467,308

* 1. Supplemental grant for national conference to develop an intervention

based on the above study data.Co-Principal Investigator, Site Director

1995-1996 “How experts discuss advance directives with patients.”Greenwall Foundation.(Co-Principal Investigator) $22,500

1995-1996 “Defining death in a technological age.”Conference and Book. Division of Organ Transplantation, UNOS, NIH, Fetzer Institute, Greenwall Foundation, Laerdal Foundation, Cleveland Foundation, Baxter Health Care, Sandoz, Hoffman-LaRoche, Albert Leonnetti and RA Carlson, Arter & Hadden Law Firm, David & Young Law Firm. $109,700. (Project Co-Director)

1995-1997 “A prospective study of family members’decision-making about life support.”National Institute for Nursing Research. (Consultant) $75,000

1996-1998 “Society for Health and Human Values and Society for Bioethics Consultation Task Force on Standards for Ethics Consultation.”Greenwall Foundation and over 30 Bioethics Networks and Centers.. (Principal Investigator) $310,000

1996-1997 “Evaluating health providers’ communication with terminal patients using standardize patient scenarios. Soros Foundation ñ Project on Death in America. (Co-Principal Investigator) $30,000

1999-2000 Soros Foundation, Project on Death in America Faculty Scholar. Teaching physician change-agents to communicate with terminally ill patients about psychosocial and ethical aspects of care (Principal investigator) . $228,900

1999-2000 Developing a Model Intervention to Increase Consent for Organ Donation Department of Health, Ohio (Co-Principal Investigator)$ 74,199

1999-2000 Improving the Quality of Life During the End-of-Life Process NIH/NIA. R03 (Consultant) $50,000

1999-2000 Developing A Model Intervention to Increase Consent to Organ Donation Agency for Health Care Policy & Research R13-H510074 (Co-Principal Investigator) $25,000

1999-2000 Examining the impact of financial incentives (voluntary benefit) on organ donation. Greenwall Foundation. (Principal investigator) $92,436

Public attitudes toward the definition of death and organ procurement policy Greenwall Foundation (Co-Investigator)

Public attitudes towards death and organ procurement. Agency for Health Care Policy Research. (Co-Investigator) $300,012.

1999-2001 Emotional Reactions to Patients' Death. Dana Farber Cancer Institute Agreement under the Nathan Cummings Foundation (Principal Investigator) $80,500.

Supplement to study Nurses’ and Third year Medical Students’ Emotional reaction to Patients’ Death. (Principal Investigator) $30,000

1999-2000 Informed Consent and Therapeutic Misconception. NIMH (Co-Investigator) $70,600.

1999-2000 Developing a Palliative Care Unit: Promoting Nurse Competency. Beckwith Foundation (Co-Principal Investigator) $3500.

* 1. Support for the UPMC Palliative Care Program. Ladies Hospital Aid Society o Western Pennsylvania. (Principal Investigator). $5000.

Renewed 03, 04

1999-2005 Support for the UPMC Palliative Care Program in bereavement care.

Shadyside Auxiliary Society. 1,000 per year

2001-2002 Advance directives among the oldest old. NIA (Co-Principal Investigator).

50,000

2001-2005 Undergraduate Medical Education for End-of-Life Care. NCI R-25 grant CA90595 (Co-Principal Investigator). 697,892

2001-2005 End of life communication skills for oncology fellows. NCI R-25 grant (Co-Principal Investigator).

2001-2002 A Proposal for Increasing Physicians’ Ability to Encourage and have End-of-Life Conversations with Patients and Families. Jewish HealthCare Foundation ( PI for the End of Life Providers Task Force) 60,000

2001-2003 Assessing fellows experience and attitudes toward palliative care education. Last Acts. 30,000.

2001-2004 Ventilator Weaning: Processes of Care and Communication. National Institute for Nursing Research, NIH 1 RO1 07973-01. 823,859. (Co- Investigator, 5%).

2002-2003 End of life content in guidelines for life-limiting illness. Last Acts. 30,000.

2002 International Union Against Cancer Yamagiwa-Yoshida Memorial International Cancer Study Grant. Factors associated with physicians’ ability to predict patients’ preferences for information and involvement in medical decisions. PI. 10854.00

2002-2003 Council on Instructional excellence Innovation in Education Awards. A structured educational program for observing, evaluating and documenting internal medicine residents’ discussions with seriously ill patients. Co-Principal Investigator. 10297.00

2002-2003 Modification of a Symptom Assessment Scale to Evaluate Symptom Burden in Chronic Dialysis Patients. Center for Health equity Research and Promotion VA Stars and Stripes Healthcare network competitive pilot research fund. (Co-Investigator). 21,048

2002-2003 How can end-of-life services by made more ethnically appropriate? Center for Health equity Research and Promotion VA Stars and Stripes Healthcare network competitive pilot research fund. (Co-Principal Investigator). 19000

2003 Koppoka Family Foundation Visiting Lectureship Program. Principal Investigator 3000.00

2003-2005 Project on Death in America Palliative Care fellowship grant. Investigator. 150,000.

* 1. NR 1R01NR/AG08249-01 “Trajectories of Serious Illness: Patients and Caregivers” Investigator. $2,359,885.

2003-2008 NCI 1 R01 CA100387-01“Enhancing patient-oncologist communication”

Co-Principal Investigator $2,359,026 (direct)

* 1. Advanced illness coordinated care: A proposal for a community collaboration, Principal Investigator, 330,561

2003-2004 Support for the UPMC Palliative Care Program. Ladies Hospital Aid Society of Western Pennsylvania. (Principal Investigator). $5000.

2005-2010 End-of-Life Education in the Third Year of Medical School. NCI R-25 grant CA (Co-Principal Investigator).

2005-2010 An observational description of IRB practices.1 R01 CA10795-01A1. Co-Principal Investigator 2,444,143 (direct).

2005-2007 Diagnosing and Discussing Imminent Death in the Hospital. RO3. Co-Principal Investigator.

2005–2007      Assessing Individual Preferences for End-of-Life Care (1R21 AG025191-01A1, Exploratory/Developmental Research Grant Award).  National Institute on Aging. Co-Principal Investigator.

2006–2007      Surrogate Decision Making in the ICU: A Study to Examine Decisional Regret (Pilot grant, Interdisciplinary Program in Bioethics). The Greenwall Foundation. Co-Principal Investigator ($45,074 total).

2006-2010 Barriers to Initiating Antiviral Therapy for Veterans with Hepatitis C. VA MERIT. Co-Principal Investigator.

2006-2010 Sociocultural Dimensions of Provider Decision-Making in Pain Management. VA MERIT. Co-Principal Investigator.

2006-2001 Teaching to teach end of life communication skills for oncology fellows. NCI R-25 grant (Co-Principal Investigator).

2006-2007 Support for the UPMC Palliative Care Program. Ladies Hospital Aid Society of Western Pennsylvania. (Principal Investigator). $5000.

2007-2008 Critical Care Communication (C3): Teaching intensivists palliative care communication skills. Jewish Health Care Foundation. (Principal Investigator). $100,000

2007-2008 Critical Care Communication (C3): Teaching intensivists palliative care communication skills. National Palliative Research Center . (Principal Investigator). $151,000.

2007-2008 Development and dissemination of a Rapid Response System for

Uncontrolled Donation After Cardiac Death. HRSA (Consultant)

2008-2010 Expanding Critical care Communication (C3) Arthur Vining Davis Foundation. (Principal Investigator). $200,000.

2008-2010 Talking with Patients about other Healthcare workers' Errors: Ethical,Legal, And Practical Considerations. Greenwall Foundation. (Co-Principal Investigator) $173, 308.

2008-2012 Pain, Sexual Dysfunction, and Depression in Hemodialysis Patients. VAHealth Services Research and Development

IIR 07-190-2. . (Co-Principal Investigator) $897,000.

2008-2010 Provider and Organizational Norms and Care at the End of Life (PONCEL) R21 NIH (Co-Principal Investigator) $ 226,220

2009-2012 Communication in Oncologist Patient Encounters: A Patient Intervention” 2R01-CA100387-06 NCI. R21 NIH (Co-Principal Investigator)  ($521,924)

2009-2011 Isolating Mechanisms Underlying Hospital Variation in End-of-Life ICU Use 1R21 CA141093-01. R21. NIH. NIH (Co-Principal Investigator)

2009-2011 ICU Triage Communication and Decision Making: the Role of

Race. American Cancer Society (Co-Principal Investigator)

2010-2015 Cancer Survivorship T32 (Training committee member)

2010-2011 Representational Intervention to Promote End-of-Life Decision-Making Preparation R01NR011464-S1 NIH $147,011

2007-2013 Outpatient Early Intervention Services with Respect to HIV Disease (Ryan White Title III) 2 H76 HA00079-13(Co-Principal Investigator)

2011-2015 Geriatric Education Centers of PennsylvaniaUB4 HP199199-01-00 (Co-Principal Investigator)

2011-2015 End of Life in Very Old Age. NIH NIA. (Co-Principal Investigator)

2010-2015 Communication of Illicit Drug and/or Alcohol Use in Obstetrics. R01

DA026410 01. (Co-Principal Investigator)

2012-2014 Describing Variation in IRB Efficiency. VA Research Foundation. (Co- Investigator)

2012-2014 Dissemination of Critical Care communication training. Arthur Vining Davis Foundations. (Co-Investigator)

2012- 2014 Surrogate Storytelling. NPCRC. (Co-Investigator)

2013-2015 Improving Seriously Ill Patients End-Of-Life Care by Changing the Default Option in Advance Directives. Gordon and Berry Moore Foundation. (Co-Investigator)

2013-2018 A Trial to Improve Surrogate Decision-Making for Critically Ill Older Adults. NIA. (Co-Investigator)

2014-2017 The University of Pittsburgh Patient-Centered Outcomes Research (PCOR) Scholars Program. AHRQ. (Co-Investigator)

2015-2017 VitalTalk grant for increasing capacity. Milbank Foundation. (Principal Investigator)

2015-2017 UPMC Palliative and Supportive Institute – Building communication capacity. Milbank Foundation. (Principal Investigator)

2016-2021 A cluster randomized trial of a primary palliative care intervention (CONNECT) for patients with advanced cancer NIH/NCI.1R01CA197103-01A1 (PI Schenker; Co-Principle Investigator)

2017-2019 Motivational Interviewing to Address Reluctance and Ambivalence in Palliative Care. National Palliative care research Center (PI Kutner; Co-Investigator)

2016-2021 University of Pittsburgh CTSI – Community & Collaboration Core: Team Science. 1UL1TR001857 NIH/NCATS (PI Reis)

# SEMINARS AND INVITED LECTURES:

Available upon request.

**SERVICE:**

**Admitting Privileges:**

Presbyterian University Hospital Shadyside University Hospital - consultant Pittsburgh Veterans Administration Health Care System UPMC Montefiore University Hospital Transitional Care Unit University Physician Practice Association Magee-Women’s University Hospital 1998- hospital privileges 2000- community physician privileges 2005- TCU privileges

Heartland Health Care Center UPMC Rehabilitation Hospital-2001-2004

Semper Care Hospital

## **Other:**

1986-1988 Member, Hospital of the University of Pennsylvania 1988 Ethics Committee, DNR Subcommittee, Brain Death Subcommittee.

1986-1988 Member, Penn Medical Scholar Program Advisory Council.

1987 -1988 Member, Philadelphia VA Medical Center Ethics Committee.

1987-1988 Member, Philadelphia VA Medical Center AIDS Task Force.

1987-1988 Member, Advisory Committee, Delaware Valley Ethics Committee Network.

1988-present Faculty, Second Year Medical Student Curriculum of Medical Ethics.

1988-present Member and Consultant, Ethics and Human Rights Committee, Presbyterian University Hospital.

1989-present Advisor, 4th year medical students.

1989-present Member, University-Wide Ethics Committee, University of Pittsburgh Medical Center.

1989-2017 Staff physician, Pittsburgh AIDS Comprehensive Treatment Center (PACT)

2003-2017 Director, PACT pain and palliative care clinic

1990-present Advisor, 1st year medical students.

1990-1991 Member, Department of Medicine, Conscious Sedation Committee.

1991-present Ethics Consultant, Presbyterian-University Hospital.

1991-present Member, General Internal Medicine Fellowship Steering Committee.

1991-present Member, Department of Medicine Residency Selection Committee Member.

1991-1998 Member, University of Pittsburgh Medical Center Committee for Scientific Integrity; Coordinator for General Medicine and Geriatrics.

1991-present Preceptor, Summer Premedical Academic Enrichment Program.

1992-present Member, Ambulatory Care Education Committee

1994-present Member, Clinical Competency Committee.

1992-present Faculty, Center for Medical Ethics Continuing Education Program. (Give approximately six talks per year on various topics in medical ethics for local hospitals.)

1992-present Member, University of Pittsburgh Medical Center Committee on Medical Screening of House Officers.

1992-present Member, MA Program Steering Committee and Admissions Committee. (Serves on numerous MA thesis committees.)

PhD dissertation committees:

-Psychology Holly Heberman Marsh

-History and Philosophy of Science Thomas Cunningham

1992-1995 Staff Physician, Rainbow Free Care Clinic, Pittsburgh, PA.

1995-present Director, Division of General Internal Medicine/Geriatrics Research Ethics Integrity Committee

1995-present Member, Coordinating Committee for Research Ethics Integrity Committee, Department of Medicine

1995-2002 Staff Physician, Birmingham Homeless Clinic, Pittsburgh, PA

1995-2004 Pharmacy and Therapeutics Committee

1996-2011 Curriculum Committee, Department of Internal Medicine

1997-2012 Advisory Board, Pittsburgh Schweitzer Fellow Program

2013- present Board of Advisors, Pittsburgh Schweitzer Fellow Program

1997-1998 Co-Chair, University of Pittsburgh School of Medicine, Committee to revise the 3rd and 4th year student curriculum, In-hospital sub-committee

1998--2004 Chair, Palliative Care Curriculum Review Committee, Committee to evaluate the medical school’s palliative care curriculum

1998-2011 Member, University of Pittsburgh School of Medicine, Curriculum Committee

1999-present Advisor, Medical Students’ Interest Group on Palliative Care

1999-present Member, Advance Care Nurse Practitioner Program Steering Committee

1999-present Member, Clinical operations committee, University of Pittsburgh Physicians

1999-present Member, UPMC-Shadyside University Hospital

1999-2000 Facilitator, Balint group for Shadyside University Hospital Family Medicine Faculty

1999-2003 Faculty, Teaching medical interviewing course for first year medical students

2001 Co-Chair for Physician search committee to run an integrated pain service for UPMC Health Care system

2001 UPMC Health Plan Geriatric subcommittee member

2003 University of Pittsburgh School of Medicine

Implementation Task Force on the Patient-Doctor Relationship Block

2005 University of Pittsburgh School of Medicine

Ethics, Professionalism Task Force

2006 University of Pittsburgh, Division of General Internal Medicine Education research committee

2008-present UPMC Pain and Addiction committee

2008-present UPMC Pain fellowship committee

2008-present VA GREC advisory committee

2009-present University of Pittsburgh Student Academic Integrity Hearing Board

2009-2012 Chair, Ethics consultant team, Presbyterian University Hospital.

2010-present Member, Clinical Education Training Program, Curriculum Committee

2010-present Executive Committee, UPMC Aging Institute

2010-present Executive Committee, Residency committee, LEAD (residency scholarship)

2012 UPMC Department of Anesthesia Vice Chair Pain Search committee

2013 PhD Committee John Frye, Case Western PhD in bioethics

2013 PhD Committee, Thomas Cunningham, University of Pittsburgh, History and Philosophy of Science

2013 Family hospice and Palliative care, Physician representative, National Hospice Work Group

2016 PhD Committee, Patrick White, University of Pittsburgh, Health Service Research

2017 Data and Safety Monitering Board. NIH funded grant -Cardiac Resynchronization in the Elderly: Piloting Pacemaker vs. Defibrillator Therapy (PI S Saba).

2017 PhD Committee, John Frye, Case Western Reserve University, Bioethics

2018 MA committee, April Christinson, University of Pittsburgh, Clinical Education

2018 MA committee, Taylor Lincoln, University of Pittsburgh, Clinical Research

**Other:**

A. State license – 035828E

B. DEA license

C. Approval for bupernorphine treatment for opiate dependency 2007

D. Approval for medical marijuana 2018