

CHARLES E. BINKLEY, MD, FACS
md@charlesbinkley.com

1. EDUCATION:

- a. St. Meinrad Seminary, College of Liberal Arts, Bachelor of Arts in Classical Languages, *magna cum laude*
1985 - 1989
- b. Vanderbilt University, Post-Baccalaureate Studies
1992 - 1994
- c. Georgetown University School of Medicine, Doctor of Medicine, *magna cum laude*
1994 - 1998
- d. Graduate Theological Union, Certificate of Theological Studies Candidate
2019 - 2021

2. POSTDOCTORAL TRAINING:

- a. University of Michigan Hospitals, Department of Surgery
1998 - 2005: House Officer in General Surgery (PGY 1-7)
 - i. July 2001 - June 2003: NIH Gastrointestinal Surgery Training Fellowship (PGY 4-5)
 - ii. July 2004 - June 2005: Administrative Chief Resident (PGY 7)

3. LICENSURE:

- a. MI Medical License, 2000 - Present
- b. CA Medical License, 2004 - Present
- c. NJ Medical License, 2021 - Present

4. BOARD CERTIFICATIONS:

- a. American Board of Surgery
Certification, May 2006
Recertification, December 2013
- b. Other Certifications:
 - i. Georgetown University Intensive Bioethics Program Certificate, June 2012
 - ii. American Society of Bioethics and Humanities, Healthcare Ethics Consultant Certification (HEC-C), June 2021

5. PROFESSIONAL EMPLOYMENT:

- a. The Permanente Medical Group (San Francisco, CA)
 - i. Attending Hepatobiliary and General Surgeon, 2005 - 2019
- b. Santa Clara University, Markkula Center for Applied Ethics (Santa Clara, CA)

- i. Director of Bioethics: 2020 - 2021
- c. Hackensack Meridian Health (Edison, NJ)
 - i. Director of Bioethics, September 2021 - August 2024
 - ii. Director of AI Ethics and Quality, September 2024 - Present

6. HOSPITAL APPOINTMENTS:

- a. Kaiser Permanente Medical Center, Hayward, CA
Attending Hepatobiliary and General Surgeon: 2005 - 2009
- b. Kaiser Permanente Medical Center, San Francisco, CA
Attending Hepatobiliary and General Surgeon: 2009 - 2019
- c. Hackensack Meridian Health, JFK University Medical Center
Attending Surgeon, 2021 - present
- d. Hackensack Meridian Health, Raritan Bay and Old Bridge Medical Centers
Attending Surgeon, 2021 - present
- e. Hackensack Meridian Health, Bayshore Medical Center
Attending Surgeon, 2021 - present

7. ACADEMIC APPOINTMENTS:

- a. Hackensack Meridian School of Medicine (Nutley, NJ)
 - i. Clinical Assistant Professor of Surgery, March 2022 - August 2022
 - ii. Associate Professor of Surgery, August 2022 - Present

8. OTHER PROFESSIONAL POSITIONS & MAJOR VISITING APPOINTMENTS:

- a. Santa Clara University, Markkula Center for Applied Ethics
 - i. Bioethics Scholar, 2021 – present

9. AWARDS, HONORS, & SCHOLARSHIPS:

- a. St. Meinrad Seminary, College of Liberal Arts
 - i. *Magna cum laude*, May 1989
 - ii. Alcuin Scholar Award for academic and research excellence, May 1989
- b. Georgetown University School of Medicine
 - i. Alpha Omega Alpha, October 1996
 - ii. *Magna cum laude*, May 1998
 - iii. James A. Cahill Award for Excellence in Surgery, May 1998
 - iv. Donald M. Kerwin Award for Excellence in Pathology, May 1998
 - v. Edward B. Bunn, S.J. Award for Academic Excellence and Superior Demonstration of the Art of Medicine, May 1998
- c. University of Michigan Medical School
 - i. Bronze Beeper for Excellence in Resident Teaching, 1998; 1999; 2004
- d. NIH National Research Service Award
 - i. Gastrointestinal Surgery Training Grant, 2001 – 2003
- e. University of Michigan Medical School, Department of Surgery
 - i. Outstanding Poster – Moses Gunn Surgical Research Conference, May

- 2002
 - ii. Administrative Chief Resident, July 2004 – June 2005
- f. American College of Surgeons, Michigan Chapter
 - i. Danto Cancer Research Award, May 2002
- g. American Pancreatic Association
 - i. Trainee Travel Award, November 2002
- h. Santa Clara University, Markkula Center for Applied Ethics
 - i. Bioethics Scholar, 2021 – present
- i. Hackensack Meridian School of Medicine
 - i. Distinguished Faculty Teaching Award for Advanced Clinical Teaching, 2025

10. BOARDS OF DIRECTORS/ADVISORY BOARDS/TRUSTEES:

- a. California Medical Association, Committee on Ethical, Legal, and Judicial Affairs, 2013 – 2018
- b. San Francisco Medical Society, Board of Directors, 2013 - 2018
- c. Z-Inspection® Initiative for Trustworthy AI, Research Member, Ethics and Health Care, 2021 – present
- d. Medical Society of New Jersey, Bioethics Committee Member, 2021 – present
- e. Medical XR Council, Advisory Board Member, 2023 – present
- f. Greater New York Hospital Association, AI Advisory Group, 2024 – present
- g. Artificial Intelligence for Comprehensive Care, Equity and Sustainability in Surgery (Project AiCCESS), Research Member, 2024 – present
- h. Health AI Partnership (HAIP), Ethics Advisor to a collaboration with the American Medical Association (AMA), 2024 – present
- i. Government Accountability Office (GAO), Expert Participant, Brain-Computer Interface Device, 2023 – 2025
- j. Institute for Healthcare Improvement (IHI) Leadership Alliance AI Accelerator, Physician Advisor and Steering Committee Member, 2024 - present
- k. Uniform Law Commission's Study Committee on Mental Privacy, Cognitive Biometrics, and Neural Data, Invited Observer Member, 2025

11. MAJOR COMMITTEE ASSIGNMENTS:

- a. Kaiser Permanente
 - i. Member, Credentials and Privileges Committee, 2006 - 2009; 2017 - 2019
 - ii. Chair, Bioethics Committee, 2011 - 2019
 - iii. Medical Staff Vice President, 2014 - 2017
 - iv. Medical Staff President, 2017 - 2019
 - v. Member, Medical Executive Committee, 2017 - 2019
 - vi. Chief, Inpatient Quality, 2018-2019
- b. Hackensack Meridian School of Medicine
 - i. Member, Medical School Admissions Committee 2022 – present

- ii. Member, Student Professionalism Subcommittee 2023 – present
- iii. Member, Appointments and Promotions Committee 2024 - present
- iv. Chair, AI Task Force 2024 - Present
- c. Hackensack Meridian Health
 - i. Member, COVID-19 Executive Steering Committee, 2021 – 2022
 - ii. Member, Service Titration Work Group, 2021 – 2024
 - iii. Member, Informed Consent Policy Committee, 2022 – 2024
 - iv. Chair, Bioethics Symposium Planning Committee, 2022 – 2024
 - v. Member, AI and Automation Working Group, 2022 – present
 - vi. Chair, Bioethics Education Subcommittee, 2023 – 2024
 - vii. Chair, Credentials Committee, JFKUMC, 2023 – present
 - viii. Member, AI Governance and Intelligent Process Automation Committee, 2024 – present
 - ix. Chair, Clinical AI Advisory Committee, 2025

12. MEMBERSHIPS, OFFICES, & COMMITTEE ASSIGNMENTS IN PROFESSIONAL SOCIETIES:

- a. Member, American Hepatopancreatobiliary Association, 2006 - present
- b. Member, The Society for Surgery of the Alimentary Tract, 2006 - present
- c. Member, The Pancreas Club, 2006 - present
- d. Fellow, American College of Surgeons, 2008 - present
- e. Fellow, The Society of Surgical Oncology, 2008 - present
- f. Member, California Medical Association, Committee on Ethical, Legal and Judicial Affairs, 2013 - 2018
- g. Member, American Society for Bioethics and Humanities, 2019 - present
- h. Member, Santa Clara County Medical Association, Bioethics Committee, 2020 - 2021
- i. Member, Medical Society of New Jersey, Bioethics Committee, 2021 - present
- j. Member, Healthcare Information and Management Systems Society (HIMSS), 2024 - present

13. CONFERENCE SERVICE as ORGANIZER, WORKSHOP/CME COURSE LEADER, SESSION MODERATOR:

- a. Kaiser Permanente National Bioethics Symposium Planning Committee, 2017
- b. Society for Surgery of the Alimentary Tract, Program Committee, Pancreas Section, 2017 – 2019
- c. American Society for Bioethics and Humanities
 - i. Conference Reviewer, 2021 - present
 - ii. Ethical Considerations in Patient Selection for Cancer Surgery (panel leader), Annual Meeting, 10/15/2021

- iii. Assessing for Unintended Staff Harm During and After a Global Pandemic (panel leader), Annual Meeting, 10/27/2022
 - iv. Encoding Patient Values Into AI Clinical Decision Support Systems: The Perfect Proxy, The Ideal Shared Decision Maker, or the Paternalistic Machine? (panel leader), Annual Meeting, 10/14/2023
 - v. Race-Based Concerns in Surgical Care: Historic Inequity, Distrust, and Their Influence on Decision Making (panel leader), Annual Meeting, 10/14/2023
- d. Hackenack Meridian School of Medicine
 - i. Medical Education Week Workshop
 - 1. Bringing Artificial Intelligence to the Medical School Curriculum (workshop leader), 4/20/2023
 - 2. Embracing Generative AI: A Hands-on Workshop (workshop leader), 5/13/2025
 - ii. Growing Academic Imagination Now (GAIN) Program (early career faculty mentorship)
 - 1. Navigating Clinical and Professional Conflict, A Bioethics Perspective (workshop co-planner and presenter), 7/15/25.
- e. Hackensack Meridian Health
 - i. Bioethics Symposium Planning Committee, 2021 - present
 - ii. Learning Modules (LMS) Developed and Delivered:
 - 1. HMH Advance Directive Policy Education (required of all HMH clinicians)
 - 2. HMH APP Module: Overview of Bioethics (required of all HMH APPs)
 - iii. Educational Series Developed and Delivered:
 - 1. Bioethics Education Series
 - a. Withholding Medical Information, 10/18 & 10/26/2023
 - b. Informed Consent, 7/17 & 7/25/2024
 - c. Advance Directives, 3/10 & 3/28/2024
 - 2. Nurse Orientation, monthly, 2023 – 2024
- f. Northeast Group on Educational Affairs (NEGEA)
 - i. Innovative Models for Engaging Medical Students in Ethics (panel leader), Annual Meeting, 4/10/2025
 - ii. Discussing Responsible AI Applications in Academic Work (panel leader), Annual Meeting, 4/10/2025
- g. Cedars-Sinai and The Hastings Center AI in Healthcare: Trust and Accountability Conference
 - i. Disclosure and Consent in Patient Care (workshop leader), 5/16/2025

14. STUDY SECTION SERVICE:

None

15. GRANT HISTORY:

No recent

16. MAJOR ADMINISTRATIVE RESPONSIBILITIES:

- a. University of Michigan Hospitals, Department of Surgery
 - i. Administrative Chief Resident (PGY 7), 2004 - 2005
- b. Kaiser Permanente Medical Center
 - i. Assistant Chief of Surgery, 2007 - 2009
 - ii. Member, Credentials and Privileges Committee, 2006 - 2009; 2017 - 2019
 - iii. Chair, Bioethics Committee, 2011 - 2019
 - iv. Medical Staff Vice President, 2014 - 2017
 - v. Medical Staff President, 2017 - 2019
 - vi. Member, Medical Executive Committee, 2017 - 2019
 - vii. Chief, Inpatient Quality, 2018-2019
- c. Hackensack Meridian School of Medicine
 - i. Member, Medical School Admissions Committee 2022 – Present
 - ii. Member, Student Professionalism Subcommittee 2023 – Present
 - iii. Member, Appointments and Promotions Committee 2024 - Present
 - iv. Chair, AI Task Force 2024 - Present
- d. Hackensack Meridian Health
 - i. Member, COVID-19 Executive Steering Committee, 2021 – 2022
 - ii. Member, Service Titration Work Group, 2021 – 2024
 - iii. Member, Informed Consent Policy Committee, 2022 – 2024
 - iv. Chair, Bioethics Symposium Planning Committee, 2022 – 2024
 - v. Member, AI and Automation Working Group, 2022 – Present
 - vi. Chair, Bioethics Education Subcommittee, 2023 – 2024
 - vii. Chair, Credentials Committee, JFKUMC, 2023 – Present
 - viii. Member, AI Governance and Intelligent Process Automation Committee, 2024 – Present
 - ix. Chair, Clinical AI Advisory Committee, 2025

17. PRINCIPAL CLINICAL AND HOSPITAL SERVICE RESPONSIBILITIES:

- a. Kaiser Permanente Medical Center, Hayward, CA
 - i. Attending Hepatobiliary and General Surgeon: 2005 - 2009
- b. Kaiser Permanente Medical Center, San Francisco, CA
 - i. Attending Hepatobiliary and General Surgeon: 2009 - 2019

18. MAJOR TEACHING EXPERIENCES:

- a. Santa Clara University
 - i. Instructor, Health Care Ethics Internship, 2020 - 2022
- b. Hackensack Meridian School of Medicine
 - i. Recurring Teaching:
 1. Phase 1, Gross Anatomy - Introduction, Debrief, Abdominal Anatomy 1&2, 2022 – present
 2. Phase 1, HSS - Introduction to AI for Clinical Decision Making, 2023 – present
 3. Phase 2, Family Medicine Clerkship - weekly inpatient teaching rounds, 2021 – present
 4. Phase 2, Surgery Clerkship - Surgical Ethics: Informed Consent Lecture, every 6 weeks, 2022 – present
 5. Phase 2, Surgery Clerkship - Gastrointestinal Tumors Lecture, every 6 weeks, 2022 – present
 6. Phase 2, Surgery Clerkship - Ethics Rounds for students at JFKUMC, every 4 weeks, 2024 – present
 7. Phase 3, Clinical and Research Ethics Elective (4 weeks), offered twice/year, course co-director 2023 – 2024, core faculty, 2021 – present
 8. Phase 3, AI Research and Writing Methods Elective (4 weeks), offered twice/year, course director 2025 – present
 9. Phase 3, AI Research Elective (2 weeks), offered ad hoc, course director, 2025 – present
 10. Phase 3, Medical Education Elective, ad hoc AI advisor, 2023 – present
 - ii. Lectures and Workshops:
 1. Bringing Artificial Intelligence to the Medical School Curriculum; Medical Education Week Workshop; 30 learners; 4/20/2023
 2. The Surgical Conscience: Uncertainty, Judgment, and Artificial Intelligence. Socially Responsible Surgery Club, Hackensack Meridian School of Medicine, 4/22/2025
 3. Embracing Generative AI: A Hands-on Workshop; Medical Education Week Workshop; 30 learners; 5/13/2025
- c. Hackensack Meridian Health Resident teaching:
 - i. HUMC: Surgery Residency
 1. Recurring Teaching:
 - a. Annual Bioethics Orientation, 2023 – present
 2. Lectures:
 - a. Informed Consent and Shared Decision Making in Surgery, 1/18/2022

- b. The Role of Advance Directives in Surgical Care, 2/18/2022
 - c. Advance Directives, POLST, and Surrogate Decision Making, 5/12/2023
 - d. The Surgical Conscience: Uncertainty, Judgment, and Artificial Intelligence, 4/23/2025
- ii. JFKUMC: Family Medicine Residency
 - 1. Recurring Teaching:
 - a. Inpatient Surgery Teaching Rounds, weekly, 2021 – present.
 - b. Radiology Case Review, weekly, 2024 – present
 - 2. Lectures:
 - a. Ethical Issues at the End of Life, Part I; 12/9/2021
 - b. Ethical Issues at the End of Life, Part II; 2/24/2022
 - c. Assessing Medical Decision Making Capacity; 7/21/2022
 - d. Incidental Radiographic Findings in the Liver, Pancreas, and Spleen; 9/11/2022
 - e. The Diagnosis and Management of Hepatopancreaticobiliary and Pancreas Tumors; 3/16/2023
 - f. Overview of Bioethics; 9/14/2023
 - g. Decision Making Capacity and Surrogate Decision Making; 10/5/2023
 - h. The “Difficult Patient”: Strategies for Successful Interactions; 5/16/2024
 - i. Informed Consent and Shared Decision Making; 10/3/2024
- iii. RBMC: Internal Medicine Residency
 - 1. Recurring Teaching
 - a. Morning Report Ethics Conference, monthly, 2023 – 2025
 - b. ICU Ethics Rounds, monthly, 2023 – 2025
- d. Hackensack Meridian Health Learning Modules (LMS) Developed and Delivered:
 - i. HMH Advance Directive Policy Education (required of all HMH clinicians)
 - ii. HMH APP Module: Overview of Bioethics (required of all HMH APPs)
- e. Hackensack Meridian Health Educational Series Developed and Delivered:
 - i. HMH Bioethics Education Series
 - 1. Withholding Medical Information, 10/18 & 10/26/2023
 - 2. Informed Consent, 7/17 & 7/25/2024
 - 3. Advance Directives, 3/10 & 3/28/2024
 - ii. HMH Bioethics Leader Education, 2023
 - iii. HMH Nurse Orientation, monthly, 2023 – 2024
- f. Hackensack Meridian Health Grand Rounds (CME):
 - i. Artificial Intelligence for Clinical Decision Making: Should Patients be Informed? Bioethics Department, June 4, 2021
 - ii. COVID-19 Vaccine Mandates: Ethical Considerations. BMC, 10/29/2021

- iii. COVID-19 Vaccine Mandates: Ethical Considerations. JFKUMC, 11/18/2021
- iv. Assessing Medical Decision Making Capacity. JFKUMC, 4/7/2022
- v. “Do You Want to Be Full Code?” Values, Goals, and Patient Centered Decision Making at the End of Life. BMC, 4/8/2022
- vi. Improving Health Outcomes by Reducing Bias in Patient Selection: A Role for Artificial Intelligence. JFKUMC, 10/6/2022
- vii. Assessing Medical Decision Making Capacity. BMC, 10/7/2022
- viii. Using Artificial Intelligence to Improve Patient Selection in Surgery. What’s the Downside? HUMC, Surgery Department, 11/15/2022
- ix. Using Artificial Intelligence to Improve Mental Health Care. What’s the Downside? HMM Psychiatry Department, 12/20/22
- x. Lessons Learned from Bioethics Consult Cases: Determining Patient Preferences at the End of Life. BMC, 1/20/2023
- xi. Lessons Learned from Bioethics Consult Cases: Determining Patient Preferences at the End of Life. JFKUMC, 2/16/2023
- xii. Using Artificial Intelligence to Decrease Clinical Uncertainty: What’s the Upside and the Downside? Bioethics Department, 6/29/2023
- xiii. Using Artificial Intelligence to Decrease Clinical Uncertainty: What’s the Upside and the Downside? HUMC Pediatrics Department, 9/6/2023
- xiv. Bioethics Case Studies. JFKUMC, 12/7/2023
- xv. Conversational and Generative AI in Mental Health: Do We Need Ethics? HMM Psychiatry Department, 2/21/2024
- xvi. Using Artificial Intelligence to Decrease Clinical Uncertainty: What Are the Ethics Concerns? HUMC Internal Medicine Department, 6/13/2024
- xvii. The “Difficult Patient”: Strategies for Successful Interactions. JFKUMC, 6/20/2024
- xviii. Encoding Bioethics: AI in Clinical Decision Making. Bioethics Department, 6/27/2024
- g. Hackensack Meridian Health Conferences and Invited Lectures:
 - i. When Are Health Care Mandates Ethically Justified? JSUMC Bioethics Symposium, 4/4/2023
 - ii. AI’s Dual Role in Medicine: Ensuring Beneficial Clinical Decisions and Pioneering Ethical Research. Investigator Training Series, 10/31/2023
 - iii. Introduction to Bioethics at Hackensack Meridian Health. JFKUMC Nurses Week Conference, 5/7/2024
 - iv. Ensuring Ethics: Using AI for Pioneering Clinical Research. HMM Research Symposium, 6/4/2024
 - v. Artificial Intelligence in Nursing Practice: What Are the Ethics Concerns? HMM Nursing Congress, 6/20/2024
 - vi. Using AI to Predict Mortality: What Are the Ethics Concerns? Care of Patients with Serious Illness Council, 8/9/2024
 - vii. Health AI, Biomedical Research, and the IRB. HMM IRB Retreat, 9/9/2024
 - viii. AI: The Legal, Risk, and Bioethical Implications. HMM Risk Management Day, 9/9/2024

- ix. Mindful Transitions and Balancing Acts: Palliative-Hospice-Psych-Ethics (panel). JFKUMC APP Symposium, 9/25/2024
- x. Ethics and Trust: Using AI for Clinical Decision Making. HUMC Geriatrics Consortium Conference, 10/16/2024
- xi. AI at HMH – The Promise, The Peril, and The Path (panel). HMH Board of Directors Summit, 10/22/2024
- xii. Transparency and Trust: Using AI for Clinical Decision Making. Office of Patient Experience (OPE) Huddle, 11/12/2024
- xiii. Ethics and Trust: Using AI in Nursing Practice. HMH Clinical Nurse Gathering: Tech, Trust, & Care: Navigating the Future of Nursing Together, 11/13/2024
- xiv. Ethics and Trust: Using AI for Clinical Decision Making. HUMC APP Symposium, 11/13/2024
- xv. Update on AI at HMH. HMH Bioethics Council, 12/16/2024
- xvi. Overview of AI in Nursing: Clinical and Ethical Considerations. JFKUMC Nurses Week, 5/6/2025
- xvii. Does AI Equal QI? Measuring the Impact of AI Solutions on Nursing Workflows. RMC Nursing Research Day, 5/9/2025

19. TEACHING AND MENTORING ACTIVITIES:

- a. Santa Clara University
 - i. Senior Honors Thesis Advisor
 - 1. Alex Quan, 2020 – 2021
 - ii. Hackwork Fellow Advisor
 - 1. Anna Demopulos, 2021 – 2022
 - 2. Harvey Chilcott, 2022 – 2023
- b. Hackensack Meridian School of Medicine
 - i. AI Ethics Lab (rebranded as Consortium on Clinical AI Research):
 - 1. Caile Criscione, 2024 – 2025
 - 2. Benjamin Perrin - Hee, 2024 – 2025
 - 3. Anthony Peterson, 2024 – 2025
 - 4. Daniel Ambrosio, 2024 – present
 - 5. Melika Behrooz, 2024 – present
 - 6. David Bouslov, 2024 – present
 - 7. Jack Cucchiara, 2024 – present
 - 8. Marina Girgis, 2024 – present
 - 9. Mirit Girgis, 2024 – present
 - 10. Mason Henrich, 2024 – present
 - 11. Riya Khokhal, 2024 – present
 - 12. Danielle Kong, 2024 – present
 - 13. Anirudh Maddali, 2024 – present
 - 14. Marcus Mossaad, 2024 – present
 - 15. Jack Noto, 2024 – present

16. Nzubechukwu Obidike, 2024 – present
17. Om Panda, 2024 – 2025
18. Avi Slavin, 2024 – present
19. Guy Stein, 2024 – present
20. Omid Tabatabaee, 2024 – present
21. Abinav Udaiyar, 2024 – present
22. Chioma Uka, 2024 – present
23. Renzmark Vallesteros, 2024 – present
24. Basil Yaseen, 2024 – present
25. Ali Zaidi, 2024 – present
- ii. Capstone Projects Mentored:
 1. Pierre Ibraheem, 2023 – 2024
 2. Connor Weiss, 2024 – 2025
 3. Lucas Cloppse, 2025
- iii. Other students mentored:
 1. Michael Buontempo, 2023
 2. Indica Sur, 2024
 3. Daniel Youssef, 2024
 4. Lee Beauchamp, 2025
 5. Hajrah Hussain, 2025
 6. Rachel Lozada, 2025
 7. Bruce Osei-Frimpong, 2025
- iv. Hackensack Meridian Health, Residents and Fellows Mentored:
 1. Nathan Carroll, Psychiatry, 2024 – 2025
 2. Seth Martins, Surgery, 2024 – 2025
- v. Junior Faculty Mentored:
 1. Christina Cho, M.D., 2024 – 2025

20. PEER-REVIEWED JOURNAL ARTICLES:

1. **Binkley CE**, Cinti S, Simeone DM, Colletti LM. Bacillus anthracis as an agent of bioterrorism: a review emphasizing surgical treatment. Ann Surg. 2002;236(1):9-16. PMID: [12131080](#)
2. **Binkley CE**, Eckhauser FE, Colletti LM. Unusual causes of benign biliary strictures with cholangiographic features of cholangiocarcinoma. J Gastrointest Surg. 2002;6(5):676-681. PMID: [12399056](#)
3. Logsdon CD, Simeone DM, **Binkley C**, et al. Molecular profiling of pancreatic adenocarcinoma and chronic pancreatitis identifies multiple genes differentially regulated in pancreatic cancer [published correction appears in Cancer Res. 2003 Jun 15;63(12):3445]. Cancer Res. 2003;63(10):2649-2657. PMID: [12750293](#)

4. Zhang L, Duan CJ, **Binkley C**, et al. A transforming growth factor beta-induced Smad3/Smad4 complex directly activates protein kinase A. *Mol Cell Biol*. 2004;24(5):2169-2180. PMID: [14966294](#)
5. Zhang L, Fu Z, **Binkley C**, et al. Raf kinase inhibitory protein inhibits beta-cell proliferation. *Surgery*. 2004;136(3):708-715. PMID: [15349122](#)
6. **Binkley CE**, Zhang L, Greenson JK, et al. The molecular basis of pancreatic fibrosis: common stromal gene expression in chronic pancreatitis and pancreatic adenocarcinoma. *Pancreas*. 2004;29(4):254-263. PMID: [15502640](#)
7. **Binkley CE**, Kemp DS. Ethical Rationing of Personal Protective Equipment to Minimize Moral Residue During the COVID-19 Pandemic. *J Am Coll Surg*. 2020;230(6):1111-1113. PMID: [32278727](#)
8. **Binkley CE**, Kemp DS. Ethical Centralization of High-risk Surgery Requires Racial and Economic Justice. *Ann Surg*. 2020;272(6):917-918. PMID: [32956174](#)
9. **Binkley CE**, Green BP. Does Intraoperative Artificial Intelligence Decision Support Pose Ethical Issues?. *JAMA Surg*. Published online June 16, 2021. PMID: [34132749](#)
10. **Binkley CE**, Politz MS, Green BP. Who, If Not the FDA, Should Regulate Implantable Brain-Computer Interface Devices?. *AMA J Ethics*. 2021;23(9):E745-E749. Published 2021 Sep 1. PMID: [34710035](#)
11. **Binkley CE**. How Should Surgeons Communicate About Palliative and Curative Intentions, Purposes, and Outcomes?. *AMA J Ethics*. 2021;23(10):E794-E799. Published 2021 Oct 1. PMID: [34859773](#)
12. Reynolds JM, **Binkley CE**, Shuman A. The Complex Relationship between Disability Discrimination and Frailty Scores. *Am J Bioeth*. 2021;21(11):74-76. PMID: [34710022](#)
13. Pilkington B, **Binkley C**. Disproof of Concept: Resolving Ethical Dilemmas Using Algorithms. *Am J Bioeth*. 2022;22(7):81-83. PMID: [35737493](#)
14. Allahabadi H, Amann J, Balot I, et al. Assessing Trustworthy AI in Times of COVID-19: Deep Learning for Predicting a Multiregional Score Conveying the Degree of Lung Compromise in COVID-19 Patients. *IEEE Trans Technol Soc*. 2022;3(4):272-289. Published 2022 Jul 29. PMID: [36573115](#)
15. **Binkley CE**, Kemp DS, Braud Scully B. Should We Rely on AI to Help Avoid Bias in Patient Selection for Major Surgery?. *AMA J Ethics*. 2022;24(8):E773-E780. Published 2022 Aug 1. PMID: [35976935](#)
16. **Binkley CE**, Reynolds JM, Shuman A. From the Eyeball Test to the Algorithm - Quality of Life, Disability Status, and Clinical Decision Making in Surgery. *N Engl J Med*. 2022;387(14):1325-1328. PMID: [36198184](#)
17. **Binkley CE**, Pilkington B. The Actionless Agent: An Account of Human-CAI Relationships. *Am J Bioeth*. 2023;23(5):25-27. PMID: [37130395](#)

18. **Binkley CE**, Pilkington BC. Informed Consent for Clinician-AI Collaboration and Patient Data Sharing: Substantive, Illusory, or Both. *Am J Bioeth.* 2023;23(10):83-85. PMID: [37812116](#)
19. Pilkington B, Noto J, Silverstein D, **Binkley CE**. Respecting the Value-Laden Nature of Participant Preferences: AI, Digital Phenotyping, and Psychiatry. *Am J Bioeth.* 2024;24(2):93-96. PMID: [38295243](#)
20. Ho A, Brake J, Palmer A, **Binkley CE**. A Holistic, Multi-Level, and Integrative Ethical Approach to Developing Machine Learning-Driven Decision Aids. *Am J Bioeth.* 2024;24(9):110-113. PMID: [39226003](#)
21. **Binkley C**, Meda R, de Lara J. Discerning the Nature of MAMLS: Research, Quality Improvement, or Both?. *Am J Bioeth.* 2024;24(10):98-100. PMID: [39283383](#)
22. **Binkley CE**, Reynolds JM, Shuman AG. Health AI poses distinct harms and potential benefits for disabled people. *Nat Med.* 2025;31(1):12-13. PMID: [39810004](#)
23. Pilkington B, **Binkley CE**. Clarifying When Consent Might Be Illusory in Notice and Explanation Rights. *Am J Bioeth.* 2025;25(3):126-128. PMID: [39992845](#)
24. **Binkley CE**, Ho A, Palmer A. Predicting the Future: Informational Agency and the Right to Notice and Explanation in the Use of Personal Information. *Am J Bioeth.* 2025;25(3):135-138. PMID: [39992838](#)
25. Panda OD, **Binkley CE**. Governance of Direct-to-User Digital Mental Health Tools: Emphasizing Transparency over Paternalism. *Hastings Cent Rep.* 2025;55(3):29-33. PMID: [40557920](#)
26. **Binkley CE**, Bouslov D, Zaidi A, et al. An early pipeline framework for assessing vendor AI solutions to support return on investment. *NPJ Digit Med.* 2025;8(1):368. Published 2025 Jun 17. PMID: [40523928](#)
27. Pilkington B, **Binkley CE**, Green BP. A Matter of Trust: Recovering Lost Principles to Ethically Assess AI in Health Care. *Journal of Philosophy and Medicine.* Accepted, January 2024 (in press)

21. BOOKS, BOOK CHAPTERS, & REVIEWS:

1. Books Written:
 - a. **Binkley CE**, Loftus TJ. *Encoding Bioethics: AI in Clinical Decision Making.* The University of California Press, June 2024.
2. Books Edited:
 - a. Doherty GM, **Binkley CE**, et al., eds. *Current Consults in General Surgery.* New York: McGraw-Hill, 2004.
 - b. Doherty GM, **Binkley CE**, et al., eds. *Essentials of Diagnosis and Treatment in Surgery.* New York: McGraw-Hill, 2005.
3. Book Chapters Written:

- a. **Binkley CE**, Sinniah B. Fascioliasis. In Connor DH, Chandler FW, et al., eds. Pathology of Infectious Diseases, vol. 2, 1st ed. Stamford: Appleton and Lange, 1997.
 - b. **Binkley CE**, Sinniah B. Fasciolopsiasis. In Connor DH, Chandler FW, et al., eds. Pathology of Infectious Diseases, vol.2, 1st ed. Stamford: Appleton and Lange, 1997.
 - c. **Binkley CE**, Simeone DM. Pancreatic Adenocarcinoma. In Johnson LR, et al., eds. Encyclopedia of Gastroenterology. San Diego: Academic Press, 2003.
 - d. **Binkley CE**, Simeone DM. Tumors of the Exocrine Pancreas. In Sondak V, Sussman J, Sabel M, eds. The Requisites in Surgical Oncology. St. Louis: Mosby, 2007.
 - e. **Binkley CE**, Ha R. Complex Biliary Reconstruction. In Doherty GM, et al., eds. Michigan Atlas of Surgery. New York: McGraw-Hill, 2010.
 - f. **Binkley CE**, Martins, RS. Using Artificial Intelligence for Patient Selection in Major Surgery. In Faintuch J, et al., eds. Recent Strategies in High Risk Surgery. Springer USA, 2024.
 - g. Bouslov D, **Binkley CE**. Artificial Intelligence in Surgery: Clinical and Ethical Considerations. In Brunicardi, F., Andersen, D., Billiar, T., Dunn, D., Hunter, J., Matthews, J., & Pollock, R., eds. Schwartz's Principles of Surgery. McGraw-Hill, 2025.
4. Law Journal Articles Written:
- a. **Binkley CE**. Patients Are Entitled to Moore: Determining the Relationship Between Phenotype, Genotype, Spleens, Data, and Informed Consent. Seton Hall Journal of Legislation and Public Policy. 2025;49(3):3.

22. ABSTRACTS:

1. Chang CK, Teh SH, Fuchshuber P, Choi JS, Peng PD, Bolinger BL, **Binkley CE**, Ramirez RM, Kazantsev GB, Spitzer AL, Kojouri K, Rosas EE, Mortenson MM, Perez CA, Schlieman MA. Open Data Fosters Quality Outcomes for HPB Surgery: Result of 1625 Pancreatic and Hepatic Resections. HPB 2015; 17(S1):37. (poster)

23. INTERNATIONAL & NATIONAL PRESENTATIONS/GRAND ROUNDS (invited, beginning 2018, additional on request):

1. Moral Distress: Cases from Kaiser Permanente, San Francisco Ethics Committee. Multidisciplinary Grand Rounds, Kaiser Permanente Medical Center, San Francisco, 2/21/2018.
2. Safe Laparoscopic Cholecystectomy. Grand Rounds, Khmer-Soviet Friendship Hospital, Phnom Penh, Cambodia, 11/23/2018.

3. The Philosophical Foundations of Medical Ethics. American Gastroenterological Association Ethics Committee, 1/16/2020.
4. Identifying and Addressing Conflicts of Interest in Medicine. American Gastroenterological Association Ethics Committee, 3/2/2020.
5. Responding to Requests for Nonbeneficial Interventions. American Gastroenterological Association Ethics Committee, 5/12/2020.
6. What Will You Remember from 2020? Moral Lessons from a Global Pandemic. Santa Clara University Alumni Reunion, 10/9/2020.
7. Artificial Intelligence/Machine Learning for Clinical Decision Making: Should Patients be Informed? Guest Lecture, UNLV William Boyd School of Law, 2/11/2021.
8. Bioethics Debate: Autologous Transplantation with Stem-cell Based Organs/Organoids Should Be Used for Human Organ Transplant. University of Toronto Student Society for Stem Cell Research, 2/27/2021.
9. Ethical Issues in COVID Vaccine Distribution. Virtual Forum Series sponsored by Santa Clara University School of Law, Santa Clara County Medical Association, and the Markkula Center for Applied Ethics, 3/23/2021.
10. Love Your Neighbor and Get Vaccinated. Webinar for religious leaders sponsored by the California Catholic Conference, 3/26/2021.
11. Artificial Intelligence/Machine Learning for Clinical Decision Making: Should Patients be Informed? Santa Clara University School of Law, High Tech Law Institute, 4/14/2021.
12. Ethical Considerations in Patient Selection for Cancer Surgery (panel). American Society for Bioethics and Humanities Annual Meeting, 10/15/2021
13. Does Intraoperative Artificial Intelligence Pose Ethical Issues? Loyola University, Stritch School of Medicine, Bioethics and Surgery Interest Groups, 11/10/2021
14. The Experience of Suffering in Bioethical Conflicts. Jesuit School of Theology, 12/2/2021
15. Assessing for Unintended Staff Harm During and After a Global Pandemic. American Society for Bioethics and Humanities Annual Meeting, 10/27/2022
16. Confronting Ethical Challenges in the Immersive Healthcare Ecosystems (panel). Metaverse Safety Week, 12/14/2022
17. Using Artificial Intelligence to Decrease Bias in Clinical Predictions. Medical Society of New Jersey Bioethics Committee, 12/15/2022.
18. Using Artificial Intelligence to Improve Patient Selection for Surgery: What's the Downside? Medical XR Advisory Council, 1/27/2023
19. Using Artificial Intelligence to Improve Patient Selection for Complex Surgery: What Are the Ethical Concerns? UT MD Anderson Cancer Center Ethics Seminar, 5/8/2023

20. Using Artificial Intelligence to Decrease Clinical Uncertainty: What's the Upside and the Downside? The Data Science Forum: UT MD Anderson Institute for Data Science in Oncology, 5/22/2023
21. Using Artificial Intelligence to Improve Patient Selection for Complex Surgery: What's the Upside and the Downside? Surgical Grand Rounds, Detroit Medical Center, 8/30/2023
22. Encoding Patient Values Into AI Clinical Decision Support Systems: The Perfect Proxy, The Ideal Shared Decision Maker, or the Paternalistic Machine? American Society for Bioethics and Humanities Annual Meeting, 10/14/2023
23. Race-Based Concerns in Surgical Care: Historic Inequity, Distrust, and their Influence on Decision Making. American Society for Bioethics and Humanities Annual Meeting, 10/14/2023
24. Encoding Bioethics: AI in Clinical Decision Making. Health AI Partnership (Duke University), 1/25/2024
25. Encoding Ethics into the AI Clinical Decision Support Lifecycle: From Idea to Audit. Becker's Healthcare Annual Meeting, 4/9/2024
26. Encoding Bioethics: AI in Clinical Decision Making, Georgetown University, Kennedy Institute of Ethics, 4/25/2024.
27. Ethics of AI and Health Care, Georgetown University, Philosophy Department, 4/25/2024
28. Using Artificial Intelligence to Improve Patient Selection for Complex Surgery. Georgetown University Medical Center, Section of Plastic Surgery, 4/25/2024
29. Can Artificial Intelligence Help Us Make Better End of Life Predictions? Last Hellos Symposium: New Models in Global End of Life Care, 6/21/2024.
30. AI's Impact on the Life Science Workforce, Panel on Health Care. New Jersey Council of County Vocational-Technical Schools, 7/24/2024
31. The Role of Data and Advanced Analytics in Transforming Healthcare.
32. American College of Healthcare Executives – NJ Chapter. Panel Discussion, 8/22/2024
33. Ethics and Trust: Using AI for Clinical Decision Making. Greater New York Hospital Association AI Advisory Group, 9/16/2024
34. Leveraging Artificial Intelligence for Enhanced Population Health Management. Population Health Management Summit, 9/30/2024
35. HMM AI & Automation Governance Program. Institute for Healthcare Improvement (IHI) AI Accelerator, 10/9/2024
36. Encoding Bioethics: AI in Clinical Decision Making (book presentation). XRSI Medical XR Advisory Council, 10/10/2024
37. From Moore v Regents to Digital Health: The Ethics of Health Information Sharing. Seton Hall Law School's Journal of Legislation and Public Policy Symposium, 10/18/2024.

38. Transparency and Trust: Using AI for Clinical Decision Making. The Hastings Center, 11/6/2024
39. The Illusion of Informed Consent: Informational Agency and Artificial Intelligence. University of Michigan, Center for Bioethics and Social Sciences in Medicine, Grand Rounds, 1/22/2025
40. The Surgical Conscience Redux: Uncertainty, Judgment, and Artificial Intelligence. University of Michigan, Department of Surgery, Grand Rounds, 1/23/2025
41. AI in Hospitals and Health Systems: What are the Ethics Concerns? Columbia University, School of Professional Studies, Department of Bioethics, 2/11/2025
42. AI in Health Systems: Informational Agency and Informed Consent. Seton Hall University, School of Law, 3/27/2025
43. Exploring the Future of AI in Healthcare (apnel). IHI Leadership Alliance, Australia, 3/27/2025
44. Ethics and Trust: Using AI for Clinical Decision Making. Cooperman Barnabas Medical Center, Medical Humanities Grand Rounds, 4/4/2025
45. Innovative Models for Engaging Medical Students in Ethics (panel). Northeast Group on Educational Affairs (NEGEA) Annual Meeting, 4/10/2025
46. Discussing Responsible AI Applications in Academic Work. Northeast Group on Educational Affairs (NEGEA) Annual Meeting, 4/10/2025
47. AI Ethics: What Every Hospital and Physician Should Know (panel). Becker's Healthcare Annual Meeting, 4/28/2025
48. Health Care AI at Speed: What Sticks, What Scales, and What's Hype (panel). Institute for Healthcare Improvement (IHI) Spring Meeting, 5/1/2025
49. Disclosure and Consent in Patient Care. Cedars-Sinai and The Hastings Center AI in Healthcare: Trust and Accountability Conference (workshop leader), 5/16/2025
50. Inpatient Clinical Decision-Making. Cedars-Sinai and The Hastings Center AI in Healthcare: Trust and Accountability Conference (panel), 5/16/2025
51. The Surgical Conscience: Uncertainty, Judgment, and Artificial Intelligence. Robert Wood Johnson Medical School, Department of Surgery, Grand Rounds, 5/21/2025

24. VISITING PROFESSORSHIPS:

1. University of Michigan, Department of Surgery, January 2025
2. University of Michigan, Center for Bioethics and Social Sciences in Medicine, January 2025
3. Rutgers Health, Robert Wood Johnson Medical School, Department of Surgery, May 2025

References available upon request