

Ethics in Clinical and Population Health Research (M19-505)

Spring 2023 (1/23/23 – 4/10/23 Mondays, 12:30 to 1:30pm Location: Doll & Hill

INSTRUCTORS

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OFFICE HOURS

By appointment

PREREQUISITES

None

TARGET AUDIENCE

Clinicians, clinicians-in-training, and postdoctoral researchers who are planning to conduct research in clinical or population health.

COURSE DESCRIPTION & OBJECTIVES

This course will expose population and clinical health researchers to some of the ethical issues, challenges, and situations encountered in their research, with a focus on devising solutions. It will also familiarize them with principles of responsible conduct of research and available ethics and compliance resources. Case studies from the media will supplement discussion on topics such as informed consent and human subjects research, responsible conduct of research and allegations of misconduct, research with vulnerable populations, data management and presentation, publications and peer review, collaboration and sharing data, societal impact of research, and mentee-mentor relationships. Students who attend eight course sessions will fulfil the National Institutes of Health requirements for training in responsible conduct of research.

This class is a seminar that will be held in person. This class is not based on lectures. Instead, it is based on discussion, and thus relies on full participation from all students. Students must come to each session prepared to be active and thoughtful participants. This requires thoughtful and careful reading of assigned course materials prior to each class session. Additionally, the class covers timely research ethics issues in the media, to demonstrate how common ethical concerns arise and the multi-level factors that lead to ethical issues (e.g., system, organization, lab, individual). Students will be responsible for identifying these issues and discussing them in class.

COMPETENCIES

- Understand WUSM and NIH policies regarding the responsible conduct of research;
- Recognize ethical issues and situations encountered in your profession;

- Identify resources for handling ethical dilemmas in clinical and public health research;
- Recognize professional norms and ethical principles and how they apply to scientific research activities

GRADING

Your grade will be based on 64 points.

- Class participation: 24 points
- Media leads: 20 points (2 sessions @ 10 points each)
- Media discussants: 20 points (2 sessions @ 10 points each)

Grading Scale

A: 58-64 points; B: 51-57 points; C: 45-50 points

Canvas

We will use Canvas to manage our class, access assignment instructions and media articles, and post course-related questions. Canvas can be accessed at https://mycanvas.wustl.edu/. Log in to the Wash U MyCanvas version (NOT the MD program version) with your WUSTLKey and the class should appear on the homepage.

- All updates and reminders will be posted on Canvas.
- Lecture notes and additional readings and assignment instructions will be posted on Canvas throughout the semester.

We may utilize the Discussion threads for general questions related to lectures and assignments. Students should post all general questions that may be relevant to others in class to the Discussion thread. Student-specific questions (e.g. related to a grade or exam conflict) should be emailed directly to the instructors. Students are encouraged to post materials related to class (e.g. link to a news story) on Canvas for the rest of the class to access.

ATTENDANCE AND PARTICIPATION

We recognize that we are holding this course in an ongoing pandemic. This semester the course will be held in-person, with provisions made if university policies for in-person instruction change. If you anticipate issues with attendance, deadlines, or completion of assignments, please discuss these with the instructors <u>as soon as possible</u>. Email is the best way to contact the instructors. Emails will be answered by one of the two instructors within two business days with the exception of weekends and holidays.

- Class attendance and participation are an NIH requirement to be certified as completing the NIH requirements for Responsible Conduct in Research. Students who attend fewer than 8 sessions will not be certified as having completed the NIH responsible conduct of research requirements.
- Readings assigned for each class should be read ahead of the class. Students should be prepared to discuss the material from readings and relate the readings to case studies and their own research experiences (past, present, and imagined future).

ASSIGNMENTS & DUE DATES

Class participation (24 points): The participation portion of the course grade is based upon regular and timely attendance, as well as active, meaningful contributions to class discussion. Students are expected to read the required readings even when not presenting. Participation points are earned by being an <u>active and thoughtful contributor</u> to class discussions in break out group discussions and in the larger group discussion.

Class format: The class format will be a mixture of full group and break out group discussions. We will utilize break out groups for the discussion of the news media cases. Instructors will assign all students to a **Media Team** that they will regularly meet with during the class in that group. Each team will have one **Media Lead** and one **Media Discussant** for each class session.

Media Lead (20 points) in Break Out group: You will be required to serve as media lead two times during the semester. You will be responsible for choosing the news reports, which should be real cases reported in news outlets. The news report should be brief and focus on research ethics topic we are covering during the week you lead. The media lead grade is based on the extent to which the lead selects a relevant news report for the week's topic and comes prepared to lead the discussion, as evidenced by level of preparation, and, critically, incorporation of the week's readings. Please circulate the report you choose to your Media discussion team no later than the Thursday before the class in which you are assigned to present.

Media Discussant (20 points) in Break Out group and for Full Group: You will be required to serve as discussant two times during the semester. The role of discussant is to support the media lead, to document the discussion in a Google doc provided by the instructors, and to ensure that the discussion stays on track and incorporates the week's readings. In addition to speaking, we encourage students to use the chat box to ensure that their questions and responses are heard. The media discussant will report back to the full class on the discussion and the major take home messages. This report back is not a summary of the article but a critical reporting on the article as it relates to the course topic and readings.

Note: The number of times each class member will serve as Media Lead or Media Discussant is subject to change depending on course enrolment. The instructors may also need to adjust the assignment to fit the realities we face during the semester, given the on-line format and the pandemic context.

POLICY ON LATE ASSIGNMENTS

This is a synchronous class, and the class discussions depend on the **Media Lead.** Please support your classmates by selecting a news report and circulating it to <u>your team and the instructors no later than the Thursday before the class session</u>. We will not deduct points for late assignments this semester because we understand that the pandemic and what students must deal with because of the pandemic is unpredictable, but we encourage students to be respectful of each other's schedules and turn in the news report on time.

We ask that students maintain open communication with the instructors about their needs. Media team members may also swap dates for presenting as Media Lead and Media Discussant without penalty, if agreed upon by team members and if the instructors are notified.

Week Date	Topic	Readings
Class 1	Introduction to	General References and Useful Web Pages:
Jan 23	course and the	√ "Fostering integrity in Research" National Academies of Sciences,
	responsible conduct	Engineering, and Medicine
	of research	https://www.nap.edu/catalog/21896/fostering-integrity-in-research
	(Hunleth and Waters)	✓ NIH Investigator Manual for Human Subjects Research
		https://irbo.nih.gov/confluence/display/ohsrp/Investigator+Manual
		✓ Hastings Center http://www.thehastingscenter.org/
		✓ "On Being a Scientist: Responsible Conduct in Research" National
		Academy of Sciences Committee on Science, Engineering and Public
		Policy
		https://www.nap.edu/catalog/12192/on-being-a-scientist-a-guide-to-
		responsible-conduct-in
		✓ Dear Labby, a monthly advice column in the American Society of Cell
		Biology newsletter, deals with practical issues in the science and career
		advancement. https://www.ascb.org/category/publications-
		columns/dear-labby/
		Other Ethics Resources and Sources for Finding Case Studies:
		✓ NIH Office of Research Integrity
		✓ https://ori.hhs.gov/general-resources-0
		✓ https://ori.hhs.gov/research-misconduct-0
		✓ https://ori.hhs.gov/newsletters
		✓ NIH Office of the Director https://www.nih.gov/institutes-nih/nih-office-
		director
		✓ Online Ethics Center for Engineering and Science at Case Western
		Reserve University http://onlineethics.org/
		Also: Science Magazine (http://www.sciencemag.org/) and the Chronicle of
		Higher Education (<u>www.chronicle.com</u>) regularly publish commentaries and
		stories relevant to the responsible conduct of research.
		stories relevant to the responsible conduct of research.
Class 2	Research misconduct	Required:
Jan 30	and policies for handling misconduct	1. University policy. [skim] Research Integrity Policy for Washington University
		https://research.wustl.edu/washington-university-research-integrity-policy/
	(Hunleth)	2. NIH on misconduct. [skim] Brief NIH definition of misconduct and federal
		process for handling allegations
		https://grants.nih.gov/grants/research integrity/research misconduct.htm
		3. Addressing research misconduct. [read] National Academies, Fostering
		Integrity in Research. Addressing Research Misconduct and Detrimental
		Research Practices: Current Knowledge and Issues
		https://www.ncbi.nlm.nih.gov/books/NBK475962/
		4. Practices that build good research behavior. [read] Gunsalus & Robinson.
		Nine Pitfalls of Research Misconduct. <i>Nature</i> .
		https://www.nature.com/articles/d41586-018-05145-6
		Recommended Resources:
		 Handling misconduct. Official Federal Policy on Misconduct and Handling of allogations
		allegations
		https://ori.hhs.gov/sites/default/files/42_cfr_parts_50_and_93_2005.pdf

Handling misconduct. NIH Office of Research Integrity, on handling misconduct. https://ori.hhs.gov/handling-misconduct

Class 3 Da Feb 6 ar

Data acquisition and analysis, management, and sharing (Waters)

Required:

- Practical data acquisition and management guidelines. [read] Knatterud GL. Management and conduct of randomized controlled trials. Epimiol Rev 2002; 24(1): 12-25. https://www.ncbi.nlm.nih.gov/pubmed/12119852
- 2. Data sharing. [mix of reading and skimming]
 - NIH data sharing mandate [read] https://www.nature.com/articles/d41586-022-00402-1
 - Elements of an NIH data management and sharing plan [read]
 https://grants.nih.gov/grants/guide/notice-files/NOT-OD-21-014.html
 - Allowable costs for data management and sharing [skim]
 https://grants.nih.gov/grants/guide/notice-files/NOT-OD-21-015.html
 - Selecting a repository for data resulting from NIH-supported research [skim] https://grants.nih.gov/grants/guide/notice-files/NOT-OD-21-016.html
 - [Also relevant for Class 5]
- 3. Data Management Plan Tool. [explore for 5 mins] University of California. https://dmptool.org/ click "log in", then "option 1", then type "Washington University" and select it from the dropdown list. Click "create plan" and then tick the three boxes for "mock project for testing, practice, or educational purposes" and then "create plan." Review the content under each of the tabs "project details," "plan overview," etc. to see what information is required. You can also type in placeholder information in each section (e.g., "Test") to see what it looks like when put all together.
- 4. *Keeping records, from conceptualization through data analysis*. [read] How to keep a lab notebook. https://www.science.org/content/article/how-keep-lab-notebook
- LabArchives Electronic Laboratory Notebook. [explore for 5 mins] go to https://auth-service.labarchives.com/ and click "Go to Institution's login." Choose Washington University and log in. Review the options on the far left side, and experiment with adding text.

Optional Readings and Recommended Resources:

- Open data. Schiermeier Q. For the record: Making project data freely available is vital for open science. Nature 2018; 555:403-405.
 https://www.nature.com/magazine-assets/d41586-018-03071-1/d41586-018-03071-1.pdf
- Misadventures in data acquisition. Christian MC, McCabe M, Korn E, Abrams J, Kaplan R, & Friedman M. The NCI Audit of the National Surgical Breast and Bowel Project Protocol B-06. NEJM 1995; 333:1469-1475. http://www.nejm.org/doi/full/10.1056/NEJM199511303332206#t=articleBackground Knatterud, Rockhold, et al. Guidelines for quality assurance in multicenter trials: a position paper. Control Clin Trials 1998; 19(5): 477-493. https://www.ncbi.nlm.nih.gov/pubmed/9741868

Class 4 Feb 13

Data exploration, interpretation, and presentation (Waters)

Required:

 Data exploration and interpretation. [read] Wigboldus et al. Encourage playing with data and discourage questionable reporting practices. Psychometrika 2016; 81(1):27-32.

- https://www.ncbi.nlm.nih.gov/pubmed/25820979
- 2. *Precision of reporting.* [read] Wilcox. On Precision. Epidemiology 2004; 15(1):1. http://www.ncbi.nlm.nih.gov/pubmed/14712138
- 3. *Image manipulation*. [read] Avoiding image fraud: 7 rules for editing images. https://www.aje.com/en/arc/avoiding-image-fraud-7-rules-editing-images/

Optional Readings and Recommended Resources:

- National Institutes of Health. ClinicalTrials.gov Protocol Registration Data Element Definitions for Interventional and Observational Studies. https://prsinfo.clinicaltrials.gov/definitions.html.
- Open Science Framework https://osf.io/
- Foster Open Sciences https://www.fosteropenscience.eu/resources
- NIH Principles and Guidelines for Reporting Preclinical Research.
 https://www.nih.gov/research-training/rigor-reproducibility/principles-guidelines-reporting-preclinical-research

Preregistration of research methods and analytic plan. Nosek et al. The Preregistration Revolution. PNAS 2018; 115(11): 2600-2606. http://www.pnas.org/content/pnas/115/11/2600.full.pdf

Class 5 Collabo Feb 20 owners

Collaboration, data ownership, and resource sharing (Hunleth)

Required:

- Team science. [read] Bennett & Gadlin. Collaboration and Team Science: From Theory to Practice. Journal of Investigative Medicine; 60(5): 768-775. https://jim.bmj.com/content/jim/60/5/768.full.pdf
- Power asymmetries in global health research. [read] Abimbola et al.
 Addressing power asymmetries in global health. PLOS Medicine; 18(6): e1003667.
 https://journals.plos.org/plosmedicine/article?id=10.1371/journal.pmed.100
- 3. NIH list of data sharing policies [skim the table to gain understanding of the scope of the issue.] [Also relevant for Class 3] https://www.nlm.nih.gov/NIHbmic/nih data sharing policies.html

Recommended Resources:

- WU policy. Washington University Policy on Intellectual Property
 https://wustl.edu/about/compliance-policies/intellectual-property-research-policies/intellectual-property/
- Collaboration and working in teams: https://www.cancer.gov/about-nci/organization/crs/research-initiatives/team-science-field-guide/collaboration-team-science-guide.pdf

Building Successful Research Teams.

https://www.facultydiversity.org/webinars/researchteams

Class 6 Feb 27

Conflicts of interest – personal, professional, financial, and commitment (in allocating time, effort, and other resources) (Waters)

Required Reading

- Wash U policy. [skim] Individual (Research) Conflicts of Interest Policy https://research.wustl.edu/research-conflicts-interest-policy-guidelines/
- Industry payments. [read] About half of physician directors of cancer centers receive industry payments. Carr et al. JAMA Intern Med. 2019;179(11):1595– 1597.
 - https://jamanetwork.com/journals/jamainternalmedicine/fullarticle/2740204 ?widget=personalizedcontent&previousarticle=2770816
- 3. Reporting COIs. [read] Mole B. Top cancer expert forgot to mention \$3.5M

industry ties – he just resigned. Ars Technica.

https://arstechnica.com/science/2018/09/top-cancer-expert-forgot-to-mention-3-5m-industry-ties-he-just-resigned/

4. *How funders affect research result reporting.* [skim] Lundh & Bero. The Ties that Bind. BMJ. 2017; 356:j176.

https://www.bmj.com/content/356/bmj.j176.long

Optional Readings and Recommended Resources:

- NIH Conflict of Interest Information Page.
 http://grants2.nih.gov/grants/policy/coi/index.htm
- American Association of Universities. Task Force on Research Accountability.
 Report on Individual and Institutional Conflict of Interest.
 - http://ccnmtl.columbia.edu/projects/rcr/rcr_conflicts/misc/Ref/AAU_Col.pdf
- Lundh et al. Industry sponsorship and research outcome. Cochrane Review.
 2017.
 - $\frac{\text{https://www.cochranelibrary.com/cdsr/doi/}10.1002/14651858.MR000033.p}{\text{ub3/full}}$
- van Lent M, Overbeke J, Out HJ Role of Editorial and Peer Review Processes in Publication Bias: Analysis of Drug Trials Submitted to Eight Medical Journals. PLOS One. 2014; 9(8): 1-8.
 - http://www.plosone.org/article/info%3Adoi%2F10.1371%2Fjournal.pone.0104846
- Krauth D, Anglemyer A, Philipps R, Bero L. Nonindustry-Sponsored Preclinical Studies. PLOS One. 2014; 12(1): 1-10.
 http://www.plosbiology.org/article/info%3Adoi%2F10.1371%2Fjournal.pbio.1
 http://oceahort.org/article/info%3Adoi%2F10.1371%2Fjournal.pbio.1
 http://oceahort.org/article/info%3Adoi%2F10.1371%2Fjournal.pbio.1
 https://oceahort.org/article/info%3Adoi%2F10.1371%2Fjournal.pbio.1
 <a href="https://oceahort.org/article/info%3Adoi%2F10.1371%2Fjournal.pbio.pbi.1
 <a href="https://oceahort.o

Class 7 Mar 6

Safe laboratory practices and research environments (Waters)

Required Readings:

- WUSTL policy. [read] Discrimination and harassment. https://hr.wustl.edu/items/discrimination-harassment-policy/
- 2. **WUSTL policy.** [read] Abusive conduct. https://hr.wustl.edu/items/abusive-conduct-policy/
- 3. **Workplace mistreatment.** [skim] Prevalence of discrimination, abuse, and harassment in emergency medicine residency training in the US. Lall et al. *AMA Netw Open.* 2021;4(8):e2121706
 - https://jamanetwork.com/journals/jamanetworkopen/fullarticle/2783236
- 4. *Physical safety*. [read] Warning: This lab may cause injury or death. https://undark.org/2016/11/02/lab-safety-universities-oversight/
- 5. Reporting mistreatment of residents and fellows. [read] https://bulletin.wustl.edu/medicine/policies/student-mistreatment/

Optional Readings and Recommended Resources:

- Mistreatment of students https://bulletin.wustl.edu/medicine/policies/student-mistreatment/
- NIH pulls funding. https://www.science.org/content/article/nih-removed-more-70-lab-heads-grants-after-harassment-complaints
- Safety in Academic Field Research.
 https://journals.plos.org/plosone/article/file?id=10.1371/journal.pone.01021

 72&type=printable
- Safe Science: Promoting a Culture of Safety in Academic Chemical Research (National Academies report). https://www.nap.edu/catalog/18706/safe-

science-promoting-a-culture-of-safety-in-academic-chemical

- Does science have a bullying problem? https://www.nature.com/articles/d41586-018-07532-5
- The Ethical Treatment of Research Assistants.
 http://jrp.icaap.org/index.php/jrp/article/view/360

Class 8 Animal research Mar 13 (Waters)

Required Readings:

- NIH requirement to account for sex. [listen to 5-min audiorecording located toward the beginning of the article] Policy: NIH to balance sex in cell and animal studies. https://www.nature.com/news/policy-nih-to-balance-sex-in-cell-and-animal-studies-1.15195
- 2. **General principles of animal research.** [read] The 3 Rs. https://www.nc3rs.org.uk/the-3rs.
- Reporting guidelines. The ARRIVE guidelines 2.0: Updated guidelines for reporting animal research. [read] Percie du Sert et al., PLoS Biol 18(7): e3000410
 e3000410
- 4. **Reproducibility.** The Interplay of Ethics, Animal Welfare, and IACUC Oversight on the Reproducibility of Animal Studies. **[skim]** Pritt & Hammer, Pritt SL, Hammer RE. The Interplay of Ethics, Animal Welfare, and IACUC Oversight on the Reproducibility of Animal Studies. Comp Med. 2017 Mar 1;67(2):101-105. https://www.ncbi.nlm.nih.gov/pubmed/28381309

Optional Readings and Recommended Resources:

- WUSTL animal care and use policies. May require WUSTL login. https://research.wustl.edu/topics/animal-care-use/
- Americans are divided over the use of animals in scientific research.
 http://www.pewresearch.org/fact-tank/2018/08/16/americans-are-divided-over-the-use-of-animals-in-scientific-research/
- Practical tips are available at the 3 Rs resources website: https://www.nc3rs.org.uk/3rs-resources.
- NAS Guide for the Care and Use of Laboratory Animals.
 https://research.wustl.edu/wp-content/uploads/2018/11/guide-for-the-care-and-use-of-laboratory-animals.pdf
- NIH resources https://olaw.nih.gov/

Class 9 Mar 20

Responsible authorship and publication, peer review confidentiality and security (Hunleth)

Required Readings:

- 1. **Wash U policy.** [skim] Wash U Authorship Policy. http://www.wustl.edu/policies/authorship.html
- 2. **Defining the Role of Authors and Contributors.** [read]
 http://www.icmje.org/recommendations/browse/roles-and-responsibilities/defining-the-role-of-authors-and-contributors.html
- Equitable authorship in international partnerships. [read] Morton et al.
 Consensus statement on measure to promote equitable authorship in the
 publication of research from international partnerships. Anaesthesia, 2022:
 77(3)

https://associationofanaesthetistspublications.onlinelibrary.wiley.com/doi/10.1111/anae.15597

 Peer review. [read] Lovejoy, Revenson, France. Reviewing manuscripts for peer-review journals: A primer for novice and seasoned reviewers. Annals of Behavioral Medicine http://link.springer.com/article/10.1007/s12160-011-9269-x

 Peer review- preserving confidentiality. [read] Office of Research Integrity Introduction to RCR: Chapter 10. Peer Review: Preserving Confidentiality https://ori.hhs.gov/content/chapter-10-peer-review-Preservingconfidentiality

Recommended Resources:

- Reporting and Publishing Scholarly Work. International Committee of Medical Journal Editors http://www.icmje.org/icmje-recommendations.pdf
- Predatory journals:
 https://bmcmedicine.biomedcentral.com/articles/10.1186/s12916-015-0469-2
- Guide for avoiding plagiarism: https://ori.hhs.gov/sites/default/files/plagiarism.pdf
- Peer review (grants). NIH grant reviewer responsibilities https://grants.nih.gov/grants/guide/notice-files/NOT-OD-18-115.html

Class 10 Human subjects Mar 27 research and research with vulnerable populations

(Hunleth)

Required Readings:

- 1. What is vulnerability? [read] https://health-policy-systems.biomedcentral.com/articles/10.1186/s12961-016-0164-6
- Tools to reduce ethical breaches in research involving vulnerable groups.
 [read]. González-Duarte, et al. Bioethics in Clinical Research: The Research
 Ethics Involving Vulnerable Groups. Rev. invest. Clín. 2019; 71(4)
 https://www.scielo.org.mx/scielo.php?script=sci arttext&pid=S0034-83762019000400217
- Getting started. [skim] List of considerations for research with children. Note: this list offers important considerations for research with other vulnerable groups as well. https://childethics.com/wp-content/uploads/2013/10/ERIC-compendium-Getting-Started-section-only.pdf
- Consent guidelines. [skim] Guidelines from the Human Research Protection
 Office (HRPO) at Washington University p. 31-34 https://hrpo.wustl.edu/wp-content/uploads/2019/01/WU-IRB-Policies-and-Procedures-2019.01.21.pdf

Recommended Resources:

- NIH guidance. NIH on research involving vulnerable persons. Definitions and roles and responsibilities. Example, prisoners:
 https://humansubjects.nih.gov/prisoners Note: see bottom left corner of page for links to other vulnerable populations.
- *Certificates of confidentiality* (CoC) to protect the privacy of research participants. https://humansubjects.nih.gov/coc/index
- Consent. Emanuel E, Grady C, Menikoff J on informed consent. Is longer always better?
 http://muse.jhu.edu/journals/hastings center report/v038/38.3.article.pdf

Class 11 Societal impact of Apr 3 research and research misconduct

(Hunleth)

Required Reading(s):

- Environmental impact of research/researchers. [read] Cluzel et al. Reflecting on the environmental impact of research activities: an exploratory study. Procidia CIRP. 2020; 90:754-758
 https://www.sciencedirect.com/science/article/pii/S2212827120303073?via%3Dihub
- 2. *Public input in (biospecimen) policy.* [read section on Eliciting and Using Public Opinion] Beskow, Laura M. Lessons from HeLa Cells: The Ethics and

- Policy of Biospecimens. Ann Rev Genomics Hum Genet 2016; 17:395-417
- 3. https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5072843/
- Decolonizing science. [read] Liboiron, M. Decolonizing geoscience requires more than equity and inclusion. Nature Geoscience https://www.nature.com/articles/s41561-021-00861-7
- 5. *Global health research ethics and colonialism*. [read] Pai, M. Global health still mimics colonial ways. https://theconversation.com/global-health-still-mimics-colonial-ways-heres-how-to-break-the-pattern-121951

Recommended Resources:

- Full book on Henrietta Lacks. Skloot, R. The Immortal Life of Henrietta Lacks. Broadway Books. 2010.
- List of Global Health books to inform more ethical global health research. https://naturemicrobiologycommunity.nature.com/posts/41300-if-you-had-to-read-one-book-on-global-health

Class 12 Student/Mentee and Apr 10 mentor relationships (Waters and Hunleth)

Required Readings:

- Choosing a mentor. [skim]
 https://www.training.nih.gov/mentoring guidelines
- Different types of mentoring relationships. [skim] A Matrix Mentoring Model
 That Effectively Supports Clinical and Translational Scientists and Increases
 Inclusion in Biomedical Research.
 https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4811725/
- Understanding and dismantling privilege. [read] Martinez-Cola, M.
 Collectors, Nightlights, and Allies, Oh My: White Mentors in the Academy https://www.wpcjournal.com/article/view/20275

Optional Readings and Recommended Resources:

- Advisor, Teacher, Role Model, Friend. On Being a Mentor to Students in Science and Engineering. National Academy of Sciences, National Academy of Engineering, and Institute of Medicine. National Academy Press; Washington, D.C. 1997. http://www.nap.edu/openbook.php?record_id=5789
- Are you a good protégé?
 http://chronicle.com/article/Are-You-a-Good-Prot-g-/45755/
- Resources for Research Ethics Education's website, with readings and discussion questions for mentors and mentees. http://research-ethics.org/topics/mentoring/index2.php
- Nature's guide for mentors: Lee, et al. https://www.nature.com/articles/447791a
- Training for mentors.

 http://www.sciencemag.org/content/311/5760/473.summary?sid=99c2c85f-0d5e-4f8c-aac2-b6c447d2103c
- Being a mentee: http://chronicle.com/blogs/onhiring/how-to-be-a-better-mentee/31973
- Successful and failed mentoring relationships. [read] Strauss, et al.
 Characteristics of Successful and Failed Mentoring Relationships.
 https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3665769/

DROP DATES

You may drop for any reason during the course of the semester. However, you may only receive a partial or no tuition reimbursement depending upon how far into the semester you drop the course. See the MPHS Student Handbook. Late withdrawals will appear on your transcript as a withdrawal.

MPHS Academic Policy Guidelines:

Guidelines regarding MPHS course registration and enrollment, grades, tuition obligation, and academic leave are consolidated in the <u>MPHS Student Handbook</u>. Please review this document.

MPHS Guidelines for Academic and Non-Academic Transgressions:

By registering for this course you have agreed to the terms of the MPHS Academic Integrity Policy, outlined below and in more detail in the MPHS Student Handbook. Please review this policy before submitting your first graded assignment.

Academic Integrity/Plagiarism Policy:

- Academic dishonesty is a serious offense that may lead to probation, suspension, or dismissal
 from the University. Academic dishonesty includes plagiarism (the use of someone else's ideas,
 statements, or approaches without proper citation). Academic dishonesty also includes copying
 information from another student, submitting work from a previous class for a new grade
 without prior approval from your instructor, cheating on exams, etc. You are responsible for
 reviewing WashU's academic integrity resources to become aware of all the actions that
 constitute academic dishonesty.
- All instances of academic dishonesty will be reported to the Office of the Registrar for investigation and potential disciplinary action. In addition, the instructor will make an independent decision about the student's grade on any assignment in question. The MPHS process regarding academic dishonesty is described in the MPHS Student Handbook

DISABILITY RESOURCES

It is the goal of Washington University to assist students with disabilities in removing the barriers their disabilities may pose and provide support in facing the challenge of pursuing an education at Washington University.

Washington University recognizes and accepts its professional, legal and moral responsibility to avoid discrimination in the acceptance and education of qualified students with disabilities and to provide reasonable accommodations to such students consistent with the principles embodied in the law. These guidelines apply to students seeking admittance as well as to those who become disabled while they are enrolled.

Washington University makes every effort to insure that all qualified applicants and students can participate in and take full advantage of all programs and opportunities offered within the university. Washington University encourages and gives full consideration to all applicants for admission. Washington University does not discriminate in access to its programs and activities on the basis of age, sex, sexual orientation, race, disability, religion, color or national origin.

To learn more about services provided to students with disabilities, initiate the process of formal documentation and/or to arrange for accommodations, please review the <u>Disability Resources</u> for the Med School at the start of the course.

MENTAL HEALTH RESOURCES

Mental Health Services' professional staff members work with students to resolve personal and interpersonal difficulties, many of which can affect the academic experience. These include conflicts with or worry about friends or family, concerns about eating or drinking patterns, and feelings of anxiety and depression. See: shs.wustl.edu/MentalHealth.

SEXUAL ASSAULT RESOURCES

You can also speak confidentially and learn about available resources by contacting <u>Dr. Gladys Smith</u>, <u>PhD</u>, Sexual Violence Prevention Therapist and Licensed Psychologist at the Medical Campus, (314) 362-2404. Additionally, you can report incidents to the Office of Student Affairs or by contacting WUSM Protective Services 314-362-4357 or your local law enforcement agency.

BIAS RESOURCES

The University has a process through which students and staff who have experienced or witnessed bias, prejudice or discrimination against a student can report their experiences to the University's Bias Report and Support System (BRSS) team. For details see: diversityinclusion.wustl.edu/brss/.

Office of the Associate Vice Chancellor for Diversity, Equity and Inclusion (DEI)

The DEI Training Team designs, facilitates and leads diversity education programming for faculty, staff and students on a wide range of topics including: creating a climate of respect, the value of diversity and the role of biases in our day-to-day lives. diversity.med.wustl.edu/training/

The Office of Diversity Programs promotes diversity among and prepares medical students to lead in a global society. A priority for the Office of Diversity Programs is to cultivate and foster a supportive campus climate for students of all backgrounds, cultures and identities. mddiversity.wustl.edu/

The Diversity and Inclusion Student Council promotes an inclusive campus environment for all School of Medicine students. sites.wustl.edu/disc/

The Office for International Students and Scholars embraces the university's mission of welcoming promising students from around the world.

wumma.wustl.edu/