

Advanced Medical Student Clinical and Scholarly Elective Training in LGBTQIA+ Health

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Background

LGBTQIA+ communities face significant health disparities. One contributor is inadequate education and training for medical professionals.

Since 2016, a senior elective course at Harvard Medical School (HMS) aims to:

- 1) immerse medical students in clinical care for sexual and gender minority (SGM) patients in a broad diversity of practice settings, across the entire lifespan, and within an array of medical specialties;
- 2) provide mentorship to develop scholarly projects.

Course Objectives

Goals of the elective include:

- 1. To immerse senior medical students in care for SGM patients across the lifespan and in a variety of medical specialties and settings, providing students with an appreciation of the scope of clinical practice possible;
- 2. To teach senior medical students about unique health disparities and needs experienced by SGM patients, filling in gaps within standard medical education;
- 3. To frame and recognize SGM health as a legitimate field of clinical care and scholarship;
- 4. To offer medical students the opportunity to contribute to SGM health scholarship.

Table 1. Clinical Experiences and Participating Clinical Practice Sites (2016-2021)

Clinical	Primary Medical Care (Youth and Adults)
Experiences	Psychology/Psychiatry (Children, Adolescents and Adults)
	Gender-affirming Medical Care (Youth and Adults)
	Gender-affirming Surgery (Youth and Adults) Endocrinology (Children, Adolescents and Adults)
	Sexual Health/Sexually Transmitted Infections (Youth
	and Adults)
	HIV Care
	Intersex Care Obstatrics and Gynacology
	Obstetrics and Gynecology Dermatology
	High-resolution Anoscopy Services
	Homeless Health Services
	Immigrant Health Services
Clinical Practice	Teaching Hospitals:
Sites	Beth Israel Deaconess Medical Center
	Boston Children's Hospital
	Cambridge Health Alliance
	Massachusetts General Hospital
	Federally Qualified Health Centers:
	Fenway Health (Adult Services and Sidney Borum, Jr.
	Health Center)
	Greater Lawrence Family Health Center
	Boston Health Care for the Homeless

Methods

At the end of the elective, students were invited to provide voluntary feedback via course evaluations, which were obtained from the HMS Registrar's Office. We analyzed quantitative and qualitative course feedback and collected information about scholarly projects resulting in student authorship of peerreviewed publications.

Results

Since January 2016, 30 students completed the course. Students rated the clerkship overall as "excellent" and reported the course enabled them to master core knowledge related to SGM health. Furthermore, students reported that the clerkship enhanced their interest in the subject matter and fostered self-directed learning. Students reported publishing a wide variety of scholarly projects.

Table 2. Student Responses on Course Evaluation Form (Mean Score)

	M response (SD)
Overall rating of the clerkship from 1 (excellent) to 5 (poor)	1 (0)
How much did this clerkship enhance your interest in the subject matter from 1 (very) to 5 (not at all)?	1 (0)
How much did this clerkship foster your self-directed learning from (very) to 5 (not at all)?	1.4 (0.42)
How well did the content in this clerkship enable you to master core knowledge related to this subject from 1 (very) to 5 (not at all)?	1.4 (0.42)

Table 3. Themes from Student Course Evaluation Free-Text Comments (Available from the HMS Registrar's Office April 2018-December 2021)			
Course	- Immersive exposure to SGM care, diverse patient populations		
Strengths	and practices		
	 Caring for a vulnerable population of patients, from basic 		
	science research to clinical care to policy and advocacy		
	- Exposed to a variety of specialties including internal medicine,		
	family medicine, pediatrics, psychiatry, and surgery		
	- Good foundation of knowledge of care for transgender patients		
	(e.g., hormone therapy, surgery)		
	- Ability to act like a near-intern; lead patient encounters when		
	appropriate, do procedural tasks		
	- Great learning setting for open-minded medical students with		
	limited prior exposure		
	- Ability to tailor clinical time to interests		
	- Time and mentorship dedicated to a scholarly project		
	- Ample time to read on topics of interest		
Areas for	- Physical travel between multiple distant clinical sites		
Course	 Challenge preparing for clinic days due to variation in 		
Improvement	electronic health record systems across different sites		
	- Due to variation in preceptors' schedules, specific clinical		
	activities not always scheduled on the same day of the week		
	each week		
	- Due to wide range of sites and preceptors, some variation in		
	level of clinical independence afforded to students (active role		
	vs. shadowing)		
	- Desire for more structured didactic content		
	- Desire for a structured self-directed learning guide		

accompanying the course

Table 4. Participating Medical Student Scholarly Projects (2016-2022)

Number of Students Who Took	30
the Course	
Sample Scholarly Project Topics Resulting in Student Authorship of Peer-reviewed Publications	 Affirming gender identity in the setting of serious mental illness Anal cancer screening for HIV-negative men who have sex with men Barriers to insurance coverage for transgender patients A blueprint for planning and implementing a transgender health program Facilitators of and barriers to high-resolution anoscopy adherence among men who have sex with men Factors associated with gender-affirming surgery and age of hormone therapy initiation Factors associated with anal cancer screening follow-up by high-resolution anoscopy Gender identity data collection in iPLEDGE and increasing the number of isotretinoin prescribers among transgender health providers Organizational strategies and inclusive language to build culturally responsive health care environments for sexual and gender minority patients Planning and Implementing Sexual Orientation and Gender Identity Data Collection in Electronic Health Records Psychiatric epidemiology of transgender and nonbinary primary care patients Screening, counseling and shared decision making for alcohol use disorders with transgender and gender diverse patients

Conclusion

Upon completion of the elective, students reported their interest in working with SGM patients and in the field of SGM health had enhanced, demonstrating that advanced clinical electives may be an important way not only to meet the current health care needs of LGBTQIA+ communities, but also to nurture the next generation of LGBTQIA+ health care leaders.

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