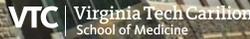


# Development of a Learning Environment Program at the Virginia Tech Carilion School of Medicine

Daniel P. Harrington, M.D.  
Interim Dean  
Virginia Tech Carilion School of Medicine

February 7<sup>th</sup>, 2019



## DISCLOSURES

- o No Disclosures to report



## OBJECTIVES

- o Development of Learning Environment in a new medical school
- o Review LCME Element 3.5
- o Review the development of the Learning Environment program at VTCSOM
- o Describe the Learning Environment Advocacy Committee
- o Review the examples of concerns registered with the committee
- o Describe the periodic review of the LE in the VTCSOM and affiliates
- o Review the clerkship year LE workshop
- o Q&A



## THE VIRGINIA TECH CARILION SCHOOL OF MEDICINE

- o VTCSOM was founded in 2008 as a public – private partnership between Virginia Tech and Carilion Clinic
- o VTCSOM is the smallest medical school in the country with 42 student/class and 168 total students
- o Innovative curriculum with 4 domains – Basic Science, Clinical Science, Research and Interprofessionalism integrated across the 4 years
- o The curriculum in the first two years is centered on Problem Based Learning
- o As of July 1, 2018 VTCSOM became the 9th college of Virginia Tech



## THE VIRGINIA TECH CARILION SCHOOL OF MEDICINE

- o VTCSOM receives over 4,000 application for 42 positions
- o The Multiple Mini Interview is used to rank 300+ interviewees for 42 positions
- o Of the 5 graduating classes, all students have USMLE Step 1 and 2 scores above the national mean
- o Students comment that the intimacy of the small classes, rigorous research requirement, and close relationship to Carilion Clinic are elements that make the school successful
- o All 5 graduating classes have 100% MATCH



## LCME ELEMENT 3.5 LEARNING ENVIRONMENT/PROFESSIONALISM

- o *“A medical school ensures that the learning environment of its medical education program is conducive to the ongoing development of explicit and appropriate professional behaviors in its medical students, faculty, and staff at all locations and is one in which all individuals are treated with respect. The medical school and its clinical affiliates share the responsibility for periodic evaluation of the learning environment in order to identify positive and negative influences on the maintenance of professional standards, develop and conduct appropriate strategies to enhance positive and mitigate negative influences, and identify and promptly correct violations of professional standards.”*



## DEVELOPMENT OF A LEARNING ENVIRONMENT PROGRAM

- VTCSOM did not have a formal learning environment program prior to 2014
- The LCME accreditation visit in 2013 cited the school because only a small number of student concerns (unprofessional/mistreatment issues) had been documented prior to the LCME visit and that there was no formal program in place to address student complaints and to promote a healthy LE
- In order to correct the citation VTCSOM developed a program to address the learning environment in all aspects
- The core of the program is the Learning Environment Advocacy Committee (LEAC)

## ELEMENTS OF THE LEARNING ENVIRONMENT PROGRAM

- Learning Environment Advocacy Committee (LEAC)
  - Multidisciplinary membership: 7 students (peer elected), 3 residents, 5 faculty (appointed by the dean), a nurse representative, a staff representative, a Carilion HR representative, and dean advisors
  - The committee meets monthly
  - Concerns may be received from students, residents, faculty, deans, staff; but most are from students
  - Concerns may be anonymous and are generally logged on the end of block or clinical rotation student evaluations in the One45 system or on an anonymous website called BEACON
  - Concerns can also be brought directly to members of the committee, clerkship director, residency director, dean or faculty member

## Summary of the LEAC Committee work 2013-2019

NUMBER OF CONCERNS THE LEAC ADDRESSED PER YEAR	
2013-2014	19 (4 mistreatment / belittlement; 15 unprofessional behavior)
2014-2015	28 (6 mistreatment / belittlement; 22 unprofessional behavior)
2015-2016	14 (3 mistreatment / belittlement; 11 unprofessional behavior)
2016-2017	16 (0 mistreatment / belittlement; 16 unprofessional behavior)
2017-2018	34 (1 mistreatment / belittlement; 33 unprofessional behavior)
2018-2019 YEAR TO DATE	14 (2 mistreatment / belittlement; 12 unprofessional behavior)

## Summary of the Concerns Reported LEAC in AY 2017-2018

- Total of 34 total concerns
  - 20 from the pre-clerkship years M1 and M2
  - 13 from the clerkship year M3
  - 1 from the elective year M4
- Breakdown of concerns from M1 year (18)
  - 1 each from Anatomy and Unspecified
  - 2 each from Clinical Skills and Research
  - 3 from Workshops
  - 4 from Lectures
  - 5 from Problem Bases Learning Groups
- Breakdown of concerns from M2 year (2)
  - 1 from Lecture
  - 1 from Interprofessionalism

## Summary of the Concerns Reported LEAC in AY 2017-2018

- Breakdown of concerns from M3 year (13)
  - 1 each from OCSE and Unspecified
  - 2 from Family Medicine clerkship
  - 3 each from Psychiatry, Internal Medicine, and Surgery clerkships
- Breakdown of concerns from M4 year (1)
  - 1 from Research

## Academic Year 2017-2018 Concern Details

- During Academic year 2017-2018, the thirty-four (34) total concerns reported involved twenty-six (26) different individuals.
- Twenty-one (21) of the twenty-six (26) total individuals were faculty members representing appointments in six different departments.
- Of the twenty-one (21) different faculty members, there were six (6) individuals for whom multiple concerns were reported.
- All concerns were of “unprofessional behavior” and no concerns were of “mistreatment”
- Three (3) of the twenty-six (26) individuals were residents
- For all three (3) of the individuals, concerns were made about “unprofessional behavior”
- Two (2) of the twenty-six individuals were students
- One (1) student concern was made if “unprofessional behavior” and the other one (1) was made of “mistreatment”

## FIRST EXAMPLE OF CONCERNS THAT ARE PRESENTED TO LEAC

Concern Received	Date Received	Curricular Element Where Concern Occurred	Summary of the Concern	Discussion and Intervention of the LEAC Committee
Beacon - Anonymous	April 27, 2018	Research- M4 Year	My research student, Student X, was publicly accused of "academic misconduct" by Dr. Y last week. Her research project on the 5-year follow up of fungal meningitis patients was IRB approved and presented at student research day. Dr. Y told her, in the hallway outside noon conference with several people able to hear this conversation that the research cohort patients were not "ours" and he would be filing a complaint. Student X states the conversation occurred where her current rotation supervising residents/attending may have overheard this accusation, only days before her grade is due for the elective and two weeks before graduation.	<i>This has been presented to the Chair of IM and the Chair of EM. The Chair of IM has discussed with the attending who remembered the interaction and research project differently than the student's research mentor. The Chair of EM has discussed with EM faculty member who was the research mentor. The chair of IM has reached out to the student involved and reassured the student no harm will come to the student and that the attending would like to have the students as a faculty member someday. Some additional issues will need to be worked out between attendings and departments that do not involve this committee.</i>

## SECOND EXAMPLE OF CONCERNS THAT ARE PRESENTED TO LEAC

Concern Received	Date Received	Curricular Element Where Concern Occurred	Summary of the Concern	Discussion and Intervention of the LEAC Committee
2nd year student	October 1, 2018	Block VI Basic Science	Student 1 feels targeted by XXX (medical student) throughout the block for a perceived role in a confidential matter. In particular, Student 1 has been blocked on social media, talked about behind my back, and when Student 1 tried to address this issue in a direct and professional way, XXX was openly disrespectful and hostile, denying Student 1 the opportunity to know what I did wrong. I have attempted to set up a meeting with the administration and XXX, but this has not occurred yet.	<i>Student Affairs Dean has met with both students separately. There is a plan to have a conversation with the entire class to address all relationships that are challenging not specifically about this issue. The Student Affairs Dean and the Academic Affairs Dean met with the two students involved in this issue. A positive resolution resulted from the meeting.</i>

## LEARNING ENVIRONMENT SURVEY

- An additional component to the LE program that was developed as a result of the LCME citation, was a periodic survey of the learning environment of all constituents
- Three surveys (2014, 2015, 2017) have been conducted and are planned every other year (the next one is in March 2019)
- The LE survey is sent to all students, all residents, all faculty, all staff, and selected group of nurse representatives
- The survey results are reviewed by the dean, dean's group, chairs, staff
- The survey results are presented to each class
- A summary of the survey results are sent to all faculty, residents, and selected nurses
- An action plan is developed to address areas of concern

## RESULTS OF THE 2017 LEARNING ENVIRONMENT SURVEY

- Overall, the VTC SOM learning environment was perceived quite favorably in 2017.

Construct	N	Mean	(SD)
1: The General Learning Environment	712	4.4	(0.50)
2: Sensitivity to Culture, Diversity, and Inclusion	699	4.6	(0.45)
3: Teamwork and Peer Support	883	4.3	(0.67)
4: Students, Faculty, and Learning Resources	688	4.3	(0.62)
5: Knowledge of Policies and Procedures	697	0.9	(0.25)

- All stakeholder groups perceived a very high degree of sensitivity to culture, diversity, and inclusion on average - to an even greater extent than in prior years.
- On average, all four student groups (M1-M4) rated their maintenance of a healthy work/life balance lower than other items. Moreover, three groups of students (M1, M2, and M3) rated their work/life balance lower than M1, M2, and M3 students in 2015.
- Most stakeholder groups rated items regarding teamwork and peer support higher than in previous years, although these items were not the highest rated items on average.
- Almost all stakeholders were knowledgeable about VTC SOM policies and procedures related to the learning environment.

## OTHER ELEMENTS OF THE LEARNING ENVIRONMENT PROGRAM

- Each incoming class has an orientation about professionalism and mistreatment
- The incoming class learns about the importance of the learning environment and the LEAC committee, appropriate policies, and ways to report concerns
- An annual review of the LEAC is presented to each class (LCME requirement, membership, and how to report concerns)
- The third year class orientation to clerkship includes a two hour workshop presenting actual cases. Following each case a facilitator discusses the students' emotional responses to the case and options on how to address the issue
- The LCME Independent student survey and the annual GQ survey results report that students know the policy on unprofessionalism and mistreatment and how to report concerns

## VTC SOM 2018 GQ - Learning Environment Results

Awareness of Mistreatment Procedures		
Year	VTC	National
2014	88.2%	78.6%
2015	87.9%	80.8%
2016	97.2%	82.3%
2017	94.4%	86.1%
2018	92.1%	88.1%
Awareness of Mistreatment Policies		
Year	VTC	National
2014	94.1%	93.3%
2015	100%	94.5%
2016	100%	95.7%
2017	100%	97%
2018	100%	97.5%

