

# LIAM Group 3

Sara Multerer, MD; Sara Petruska, MD; Tyler Sharpe, MD; Leah Siskind, PhD



# The Problem

- It's 2am
- The Pharmacology PhD has just submitted her research grant
- She is teaching a diuretic lecture to first year medical students next week
- She knows that she is supposed to be updating her lecture content
- She likes teaching and is an expert in her field but she doesn't treat patients and there aren't enough hours in the day to master interactive teaching techniques
- She has a powerpoint from two years ago that seems just fine
- The next week, she presents the material she has...

# The Problem





- We are all educators
- We have similar challenges
  - rapidly evolving science on what new educational pedagogies are thought to be most effective
  - how to bridge basic science and clinical thinking
  - How to find the time to update teaching strategies amidst other responsibilities



# The Problem Statement

Many University of Louisville Health Sciences Center (HSC) faculty struggle to adapt lecture-based content to new educational pedagogies with clinical orientation due to lack of time and difficulty using new technology.



# Stakeholders



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**Thread Directors:**

**Content needs  
updating**

**Basic Science  
Faculty:**

**Don't know how,  
no time to learn**

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**Content needs  
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**Basic Science  
Faculty:**

**Don't know how,  
no time to learn  
new teaching  
methods**

**Students:**

**Good resources  
appreciated  
STEVE ELLIS**



# Needs

Teaching faculty need time, resources, and training to adapt to new teaching pedagogy in the health sciences environment and medical education

# Approach



# Benefits



# Competition







# Key Questions

- Who in the institution has time?
- Who in the institution uses technology well?
- Who in the institution is inexpensive or resource-neutral?



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# Capitalize on Strengths





# Mind the Gap

Using Generational Strengths to Create Faculty-  
Student Teaching Partnerships

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We propose the creation of student-faculty partnerships where faculty, our content experts, work together with our tech savvy students to adapt their content to interactive learning formats

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# Benefits

Uses respective strengths of both groups  
Inexpensive  
Meets LCME requirements

# Competition





# Our Vision: **Medical Students as Teachers Elective Pilot**

- Fourth year medical students with interest in teaching participate in longitudinal MSAT elective
- Our team presented the program July 10 and invited a pilot group to participate
  - 4-8 students
  - Pharmacology/Toxicology

# Our Vision: **Medical Students as Teachers Elective Pilot**

Pilot Students will:

- Learn about new teaching pedagogies
  - SoftChalk
  - Structured Cases for Team-based learning
  - Peer teaching
- Work with a basic science faculty member to identify lecture topic in need of conversion to interactive format
- Work with clinical faculty member to incorporate correlates from patient care
- Author interactive learning resource, which can be deployed in the MS1 or MS2 curriculum and submitted to MedEd Portal for publication, with mentorship of Mind the Gap faculty.



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# Benefits

Uses respective strengths of both groups  
Inexpensive  
Maintains LCME goals for interactive learning

# Competition

Alternate forms of delivery of this information  
Resistance to change  
Competition for faculty and student time

# Medical Students as Teachers Elective Pilot

## Outcomes:

- Course evaluations
- Student satisfaction
- Teacher satisfaction
- Submission of learning resources for publication





UofL Physicians - Eye Specialists

Dosker Manor Resident Corporation

Subway Restaurants

Cardiovascular Innovation Institute

HSC Instructional Building

E Muhammad Ali Blvd

E Muhammad Ali Blvd

Research resources Center

Kornhauser Health Sciences Library

University of Louisville School of Dentistry

University Of Louisville School of Dentistry...

stitute

Obstetrics

Children's Hospital

University of Louisville Hospital

UofL Physicians - Gynecologic Oncology

ATM PNC Bank

University of Louisville Health Science Campus

550 Clinic

Panera Bread

University of Louisville Hospital...

Lampton Building

E Chestnut St

Children's Hospital Foundation Office of...

Norton OB/ GYN Associates

Community Correctional Center

HSC Exercise Facility

E Chestnut St

American Red Cross









Students  
mind  
the  
gap!!

