

We will be using a back channel communication tool with today's webinar. This will enable the audience to post questions during the webinar which will be answered at the end prior to opening up the phone line for live questions.

To participate:

Go to:

<https://todaysmeet.com/IAMSEWebinarMarch31>

In the "Nickname" field type your name, then press enter.

In the "Say" field type your question and press enter.



Applying quality improvement principles to advance faculty development

Using clinical CQI tools in program
evaluation



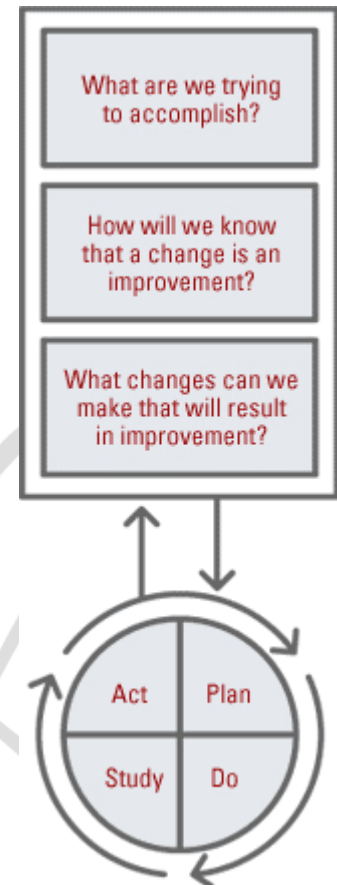
Background

LCME ED-5A

A medical education program must include instructional opportunities for active learning and independent study to foster the skills necessary for lifelong learning.

LCME Standard Element 1.1

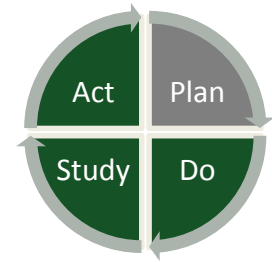
A medical school engages in ongoing planning and continuous quality improvement processes that establish short and long-term programmatic goals, result in the achievement of measurable outcomes that are used to improve programmatic quality, and ensure effective monitoring of the medical education program's compliance with accreditation standards.



http://www.institute.nhs.uk/quality_and_service_improvement_tools/quality_and_service_improvement_tools/plan_do_study_act.html



PDSA Cycle #1



Aim: Create and deliver a MD curriculum that utilizes active and self-directed learning methods and limits passive lectures to less than 40%

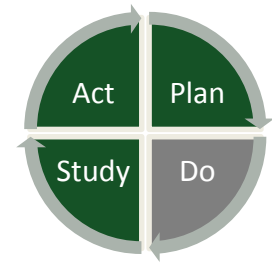
First test of change	Plan-tasks to set up test of change
Introduce faculty to active learning techniques	Determine LCME expectations
	Identify faculty champions
	Promote and utilize faculty champions to introduce active learning strategies
	Provide regular training opportunities

Prediction: General support of concepts

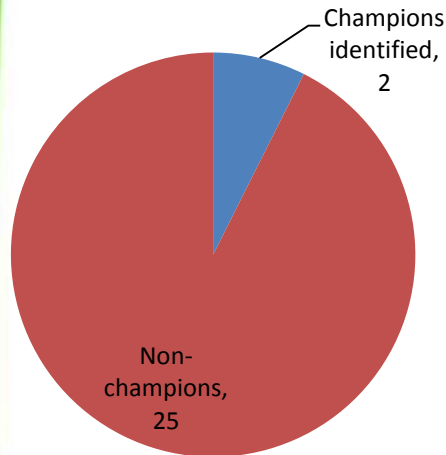
Measures to determine if prediction succeeds: Number of champions, number of participants in sessions, faculty perception of training



PDSA Cycle #1

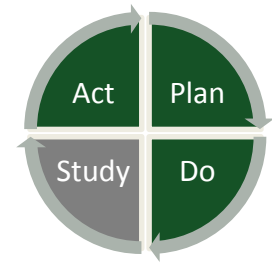


What happened when we ran the test?



- 3 workshops hosted by champions
- 76% participation rate, with most faculty attending at least 2 sessions each
- General observations from group discussions: Faculty support the idea of utilizing active learning strategies in the classroom!

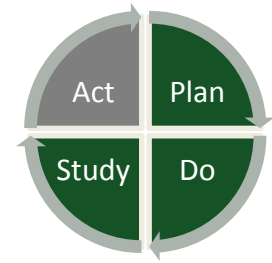
PDSA Cycle #1



How do the results compare to the predictions?

- Process outcomes – predictions held true
- Program evaluation measures – gap in what expected to achieve and what was achieved
- General observations from group discussions: Faculty support the idea of utilizing active learning strategies in the classroom!

PDSA Cycle #1



What modifications should be made for the next cycle?

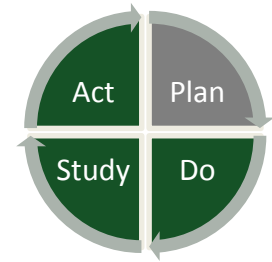
- With a gap identified in the application of active learning strategies, our office had to shift to direct (in many cases one-on-one) support for faculty in applying the concepts
- Re-consider the use of guest lecturers

PDSA #2

Revolved around classroom observation and feedback, more opportunities to share best practices, and expert consultations, shift guest lecturers to cases



PDSA Cycle #3



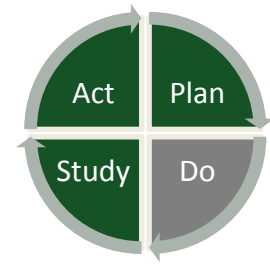
Aim: Create and deliver a MD curriculum that utilizes active and self-directed learning methods and limits passive lectures to less than 40%

Third test of change	Plan-tasks to set up test of change
Design shared framework that supports the vision (for active learning) in our curriculum	Provide background literature on topic
	Gather faculty perception as to the appropriate amount of active learning based on year
	Determine actual amount of active learning

Prediction: Different perceptions about the continuum of active learning

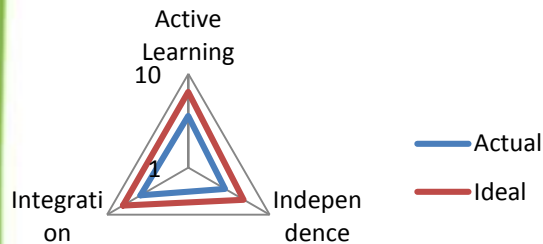
Measures to determine if prediction succeeds: Percentage of lectures versus other modalities per module, per year, and overall in the preclinical curriculum, difference between ideal versus actual number of active learning experiences.

PDSA Cycle #3

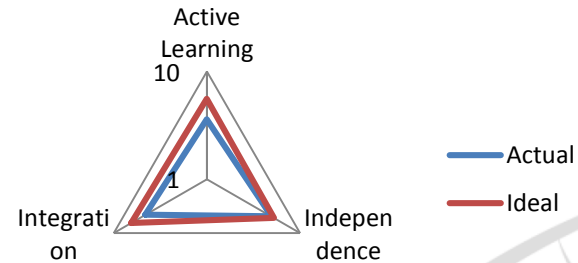


What happened when we ran the test?

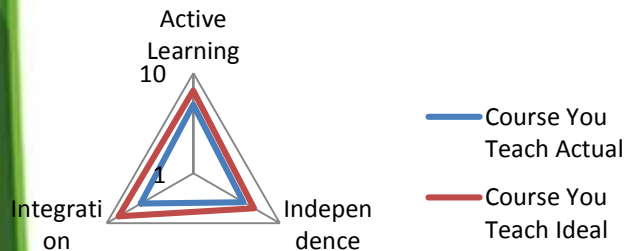
M1: Actual v. Ideal Teaching Practices



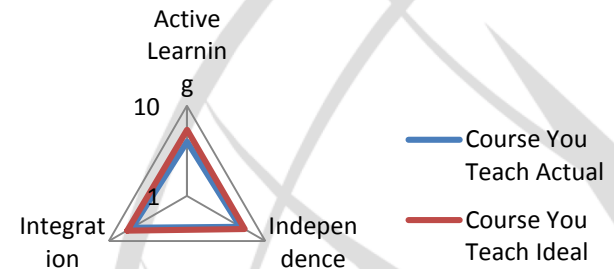
M2: Actual v. Ideal Teaching Practices



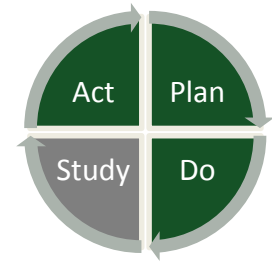
M1: Course You Teach Actual v. Ideal Teaching Practices



M2: Your Course Actual v. Ideal Teaching Practices



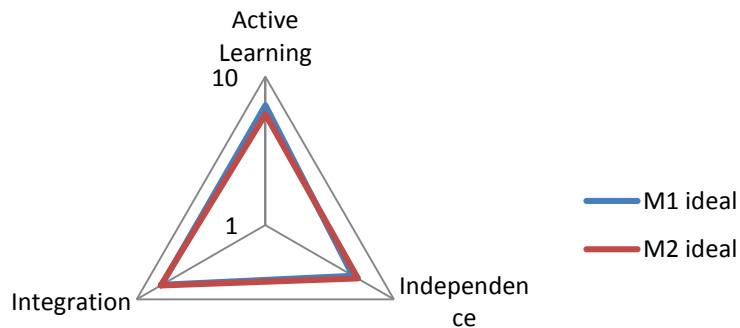
PDSA Cycle #3



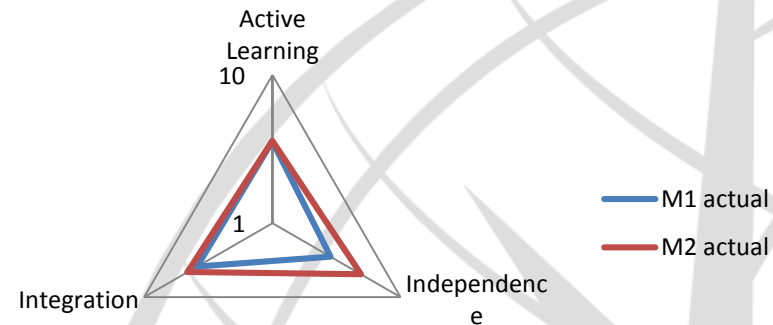
How do the results compare to the predictions?

- There are major differences in perception and practice between first and second year instructors

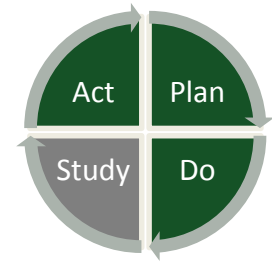
Ideal Progression of Curriculum



Actual Curriculum Progression



PDSA Cycle #3

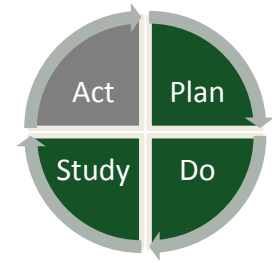


How do the results compare to the predictions?

- Unexpected major programmatic changes – 2 modules



PDSA Cycle #3

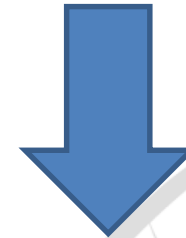


What modifications should be made for the next cycle?



Consider other factors:

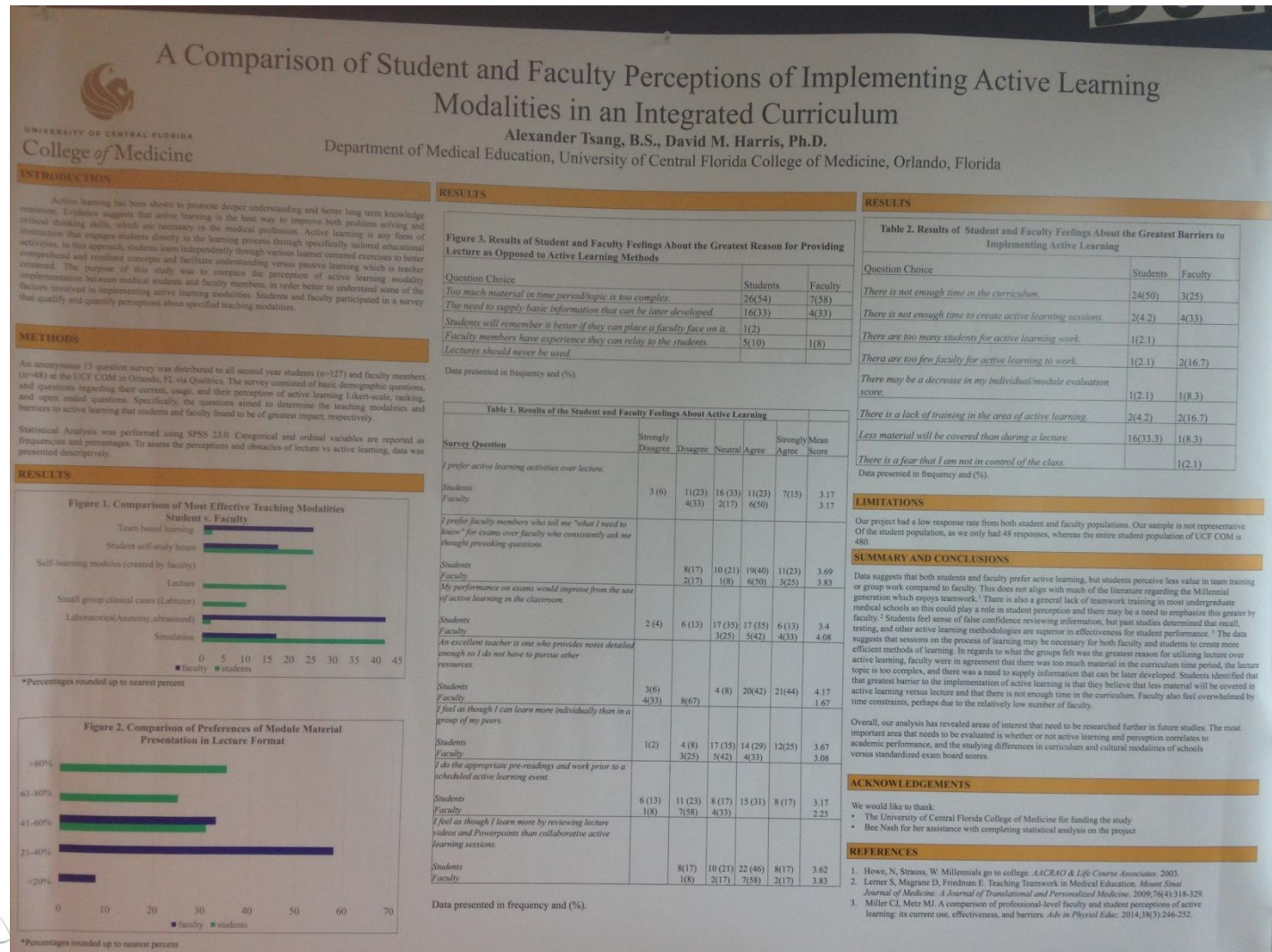
Student evaluations of faculty



Peer observations/evaluations

Other opportunities to come....

Current State?



OurDesign

Curriculum Builder for Teams,
Curriculum Mapper Tools
and the QI Process



Performance Support Tools

- Provide support to faculty after development workshops
- Give prompts and guidance to faculty while they are creating their course goals, objectives, sessions and assessments
- All this information feeds into our curriculum mapper and eventually to the curriculum inventory report



Objectives Before

- **Identify** the major identifying features of cervical, thoracic, lumbar, sacral and coccygeal vertebrae.
 - **Identify** the anatomy of typical, and atypical, intervertebral joints.
 - **Identify** the ligamentous structures supporting the vertebral column.
 - **Identify** normal and abnormal curvatures of the vertebral column.
 - **Identify** the thoracolumbar fascia in terms of location and attachments.
 - **Identify** the erector spinae and transversospinalis muscle groups in terms of attachments, unilateral and bilateral actions, and innervation.
1. Most objectives at the incorrect level of performance (identify) for some assessment (team presentations)
 2. Missing conditions
 3. Missing criteria

Objectives After Workshop Alone

- **Back Region**
 - In the back region, given a patient, cadaver or medical images, students will:
 - Identify vertebrae and components and regional characteristics
 - Apply knowledge of systemic anatomy as applied to high yield clinical conditions such as nerve root compression, scoliosis, low back pain, and neural tube defects, herniated discs
1. Improved levels (verbs) for presentations
 2. Missing condition
 3. Missing criteria



Objectives After Performance Support

- **Module goal:** Given a clinical scenario students will predict the impact of clinically relevant changes in homeostasis on the structure and function of the nucleus.
- **Session Objectives:** Given a clinical scenario, students will explain the significance of telomere length in aging and cancer in an active learning module assessed by individual and group assessments. RIME-Manager
- Given a clinical scenario students will predict the effect of antibiotics targeting DNA replication of prokaryotes in an active learning module assessed by individual and group assessments. RIME-Manager
- Given a clinical scenario, students will predict the clinical, biochemical, and pathological consequences of disorders of nucleotide metabolism including folate deficiency in an active learning module assessed by individual and group assessments. RIME-Reporter



Start

View Curriculum

OurDesign for Teams

This tool is designed to help you create performance objectives at an expert level. Then, after you have created them, to design your course and assessments.

Think of this task of articulating objectives as identifying elements of our optimal vision for our graduates. The ideal graduate should know, be able to do, and value things we articulate in this process.

Create a module

Work on a Module

Module

- Human Structure (M1)
- Foundational Sciences I (M1)
- Foundational Sciences II (M1)
- General Mechanisms of Disease (M1)
- Skin, Muscle, and Bone (M1)
- GI and Metabolism (M1)
- Synthesis I (M1)
- Heart, Lung, and Kidney (M2)
- Hormones and Reproductive Health (M2)
- Brain, Mind, and Behavior (M2)
- Multisystem Disorders (M2)
- Synthesis II (M2)
- [LONGITUDINAL] Service Learning
- [THREAD] Clinical Skills
- [THEME] Student and Physician Wellness
- [THREAD] Cost-Conscious Care
- [THREAD] Interprofessional Education
- [THREAD] Nutrition
- [THREAD] Professionalism
- [THREAD] Ultrasound
- [THREAD] Biostatistics and Epidemiology
- [THREAD] Caring for the Elderly and Patients with Multiple Chronic Conditions
- [THREAD] Ethics

OurDesign

ourdesign-evms.rhcloud.com/module/2/


Search

☆

📄

📧

⬇️

OurDesign Curriculum Builder

Hi catalajb!Admin

Start

View Curriculum

Foundational Sciences I (M1)

Goal

Section

Objective

Session

Assessment

Review

Main Menu

Designing your module is a five step task. First you create your module goals. You have to complete these module goals before you do anything else. Then, you articulate your objectives (the building blocks for your learners to the point where they can accomplish the goals), you plan the sessions, then the assessments.

Articulate your module goals

Compile module sections


Create objectives

Plan sessions

Plan assessments

Review, print, and notify OME

Create a Goal

OurDesign Curriculum Builder

Hi catalajb!Admin

Curriculum

ADJ Interprofessional Education

Given a community-based scenario students will accept the importance of interprofessional roles in an interprofessional team.

Standards

Type of Goal

Performance Conditions

Review

tion

ective

sion

Standards

Task 1: Situating your goal in the wide world

- First, link your goal to EVMS Unified Competencies (Required)
- Second, identify the USMLE STEP 1 Exam topic reference (Recommended)

System

Social Sciences

Area

Communication and interpersonal skills

Topic

Patient interviewing, consultation, and interactions with the family (patientcentered communication skills)

Unified competencies

- ☒ 1.0 Patient Care Provide patient-centered care that is compassionate, appropriate, and effective for the treatment of problems and promotion of heal
- ☐ 1.1 Patient Care: Information Gathering Gather the information necessary for care of a patient in a manner which is patient-centered, efficient, and el
- ☐ 1.1.1 Patient Care: Information Gathering Conduct a medical interview and a physical examination with comprehensiveness appropriate to the patien presentation and the clinical setting.
- ☐ 1.1.2 Patient Care: Information Gathering Appropriately request and interpret common diagnostic entities (e.g., laboratory evaluations, imaging studi consultations), identifying their indications, contraindications, predictive utilities, and costs.



Review Goal

Review

Task 4: Review the goal

This is the final step. Here you check your work and make sure the goal says what you want it to say.

Performance Category	Internalize
The Module	[THREAD] Interprofessional Education
The 'Givens'	Given a clinical case
students will	internalize
Performance Acting Upon	the importance of interprofessional roles in an interprofessional team.

Statement

Given a community-based scenario students will accept the importance of interprofessional roles in an interprofessional team.

★ Next



Create Objectives

Standards

Task 1: Situating your Objective in the Wide World

- First, select the relevant module objective (Required)
- Then, select the RIME standard or other applicable standard (Recommended)
- Then, identify the USMLE STEP1 Topic reference. (Recommended)

Module goal

Given a community-based scenario students will accept the importance of interprofessional roles in an interprofessional team.

System

Social Sciences

Area

Communication and interpersonal skills

Topic

Use of an interpreter

Subtopic

Rime standards

RIME-Reporter

Lcme hot topics Medical Ethics and Human Values, Pain Management, Palliative Care

★ Next

Start

View Curriculum

[THREAD] Interprofessional Education

Goal

Section

Objective

Given a community-based scenario students will accept the importance of interprofessional roles in an interprofessional team.

Given a patient panel presentation, students will discuss observations about roles in a professional panel Reflection 100% as judged by a rubric

Standards

Type of objective

Evaluation Criteria

Keywords

Associated

Review

Session



Objective Summary

Review

Task 6: Review the objective

This is the final step. Here you check your work, make sure the objective says what you want it to say.

Performance Category	Analyze
The Module	[THREAD] Interprofessional Education
The 'Givens'	Given a patient panel presentation
students will	discuss
Performance Acting Upon	discuss observations about roles in a professional panel
Evaluation Method	
Criteria	None
Keywords	advocate, panel, patient, responsibilities, roles
Associated with Module Goal	Given a community-based scenario students will accept the importance of interprofessional roles in an interprofessional team.

Statement

Given a patient panel presentation, students will discuss discuss observations about roles in a professional panel Reflection 100% as judged by a rubric



Plan Sessions

Start

View Curriculum

[THREAD] Interprofessional Education

Goal

Section

Objective

Session

Medical Neuroscience Panel

Link

External Link

Identify

Save

Assessment

Review

Create a new session

Task 1: Create a session

Here you will type the topic name or title of a new session. Then, in the drop-down menu, you will assign objectives (that you created in the other to that session. Finally, you will describe the time and other resources required for this session. All times are in minutes./p>

Name

Medical Neuroscience Panel

Learning experience type

Panel

Session length

120

Check required venue

Large Lecture Hall

Required resources

- ☒ AV Specialist for entire session
- ☐ Cadaver
- ☐ Clicker Technology
- ☐ Clinical Speciman
- ☐ Document Camera



Linking

Link objectives to session

Task 2: Link objectives to this session

DIRECTIONS: First select the goal associated with the objectives you want, then select the objectives in the drop-down menu below. You can choose from four goals for one learning session.

Goal

Given a community-based scenario students will accept the importance of interprofessional roles in an interprofessional team.

Objectives

- ☒ Given a patient panel presentation, students will discuss observations about roles in a professional panel Reflection 100% as judged by a rubric

Goal

Given a community-based scenario students will accept the importance of interprofessional roles in an interprofessional team.

Objectives

- ☒ Given a patient panel presentation, students will discuss observations about roles in a professional panel Reflection 100% as judged by a rubric

Goal

Objectives

Goal

Plan Assessments

Modify Assessment

Name

Panel Reflection

Sessions covered

- ☒ Medical Neuroscience Panel
- ☒ Movement Disorders Panel
- ☒ Roles and Responsibilities

Length

30

Evaluation type

Reflection

Summative or formative

Summative Assessment

★ Next



Review

Overall Summary Report

Course: [THREAD] Interprofessional Education

Module goal: Given a clinical scenario students will discover attitudes toward conflict resolution.

Module goal: Given a community-based scenario students will accept the importance of interprofessional roles in an interprofessional team.

Session Objective: Given a patient panel presentation, students will discuss observations about roles in a professional panel Reflection 100% as judged by a rubric

RIME-Re

Module goal: Given a community-based scenario students will discuss effects of personality type on team interactions.

Module goal: Given an online presentation, students will seek adherence to ethical principles, and sensitivity to a diverse patient population.

Module goal: Given a Service Learning context students will Interpret potential communication issues on an interprofessional team.



Curriculum Suite

- Our Design Curriculum Mapper
 - Began as an Access Database
 - Made into an online web based tool
- Feeds into the CMAP curriculum mapper
 - Created in Access
 - Uses XML to feed the CIR for AAMC
- Then we realized we needed to create virtual cases for our new curriculum



Virtual Families

In the Careforward Curriculum

Don Robison, Ph.D., CPT

