

**EVALUATION OF A PROBLEM BASED LEARNING FORMAT (PBL) DESIGNED TO ENCOURAGE HEALTH CAREER AWARENESS IN HIGH SCHOOL STUDENTS.** Russell Sexton, Ph.D., Timothy Hester, OMS II, Adrienne Baran, OMS II, Aron McCloud, OSM II, Josh Augustin, OMS II, and Aleksandr Sinelnikov, M.D., Ph.D. Lake Erie College Osteopathic Medicine, Bradenton, FL 34211.

**DESIGN**

A one week (40 hrs) **Medical Science Academy (MSA)** where 32 high school students were immersed in a 1<sup>st</sup> year medical school curriculum where **Problem Based Learning (PBL)** was the Primary format.

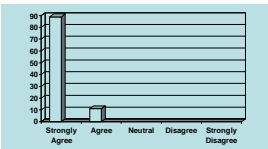
**RESEARCH PURPOSE**

Determine if the MSA program was effective in encouraging participants to consider:

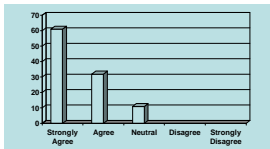
1. a career in medicine
2. learning biomedical sciences using the PBL format
3. attending a medical college that offered PBL as an educational format.

Time	Mon	Tue	Wed	Thur	Fri	Sat
8:00	AP Lecture <i>Heart Anatomy &amp; Physiology</i>	AP Lecture <i>Blood Cells</i>	AP Lecture <i>Neural Control of the Heart</i>	AP Lecture <i>Endocrine Effects of the Heart</i>	AP Lecture <i>Case Presentation</i>	Graduation & Student Recognitions
9:00	PBL <i>History &amp; Physical</i>	PBL Case <i>CBC &amp; Blood Chemistry</i>	PBL Case <i>Lipid Panel &amp; Cardiac Enzymes</i>	PBL Case <i>Case Diagnosis &amp; Treatment</i>	PBL <i>Case Preparation</i>	
10:30	SNACK BREAK					
10:45	Career 1 <i>Osteopathic Family Practice</i>	Career 2 <i>Primary Care Careers AHEC</i>	Career 3 <i>Preparation for Medical School</i>	Career 4 <i>Life as Med Student</i>	Library <i>Case Prep for Graduation</i>	
11:15	Library	Library	Library	Library		
12-1	LUNCH BREAK					
1-3	OMM Lab	Suturing Lab	Splinting Lab	First Aid Certification	CPR Certification	
3:00	SNACK BREAK					
3:15-4:40	Vitals Lab <i>OMM Exam</i>	Vital Lab <i>Cardio Exam</i>	Vital Lab <i>Neuro Exam</i>	First Aid Certification	CPR Certification	

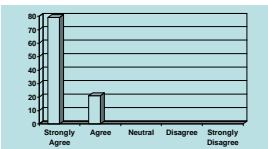
Would Recommend MSA Program to Friends Interested in a Career in Medicine (99%)



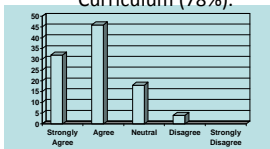
PBL Method Was Very Conducive to Learning the Basic Science (92%)



Enjoyed Learning Basic Sciences by the PBL Method (99%)



Likely to Pursue Medical Education where PBL was Component of the Curriculum (78%)



**EVALUATION of MSA**

MSA Program was received extremely well by the high schools students and their parents

The MSA will be expanded to two weeks:

- 1<sup>st</sup> week PBL Basic Sciences & Hands on learning
- 2<sup>nd</sup> week Practical Field observations

The 2<sup>nd</sup> week will have 4 days of clinical shadowing of 3<sup>rd</sup> & 4<sup>th</sup> year Medical students

**CONCLUSIONS**

MSA instructors gave high marks to the program for its organization and the active participation of the students.

MSA parents submitted unsolicited positive comments as to the benefits of the program increasing student awareness of the challenges of a medical curriculum.