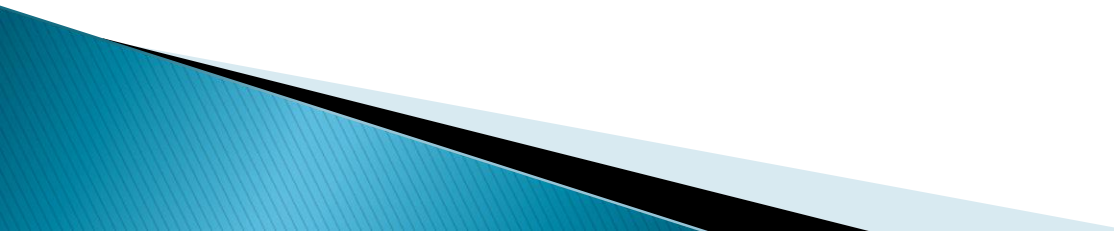


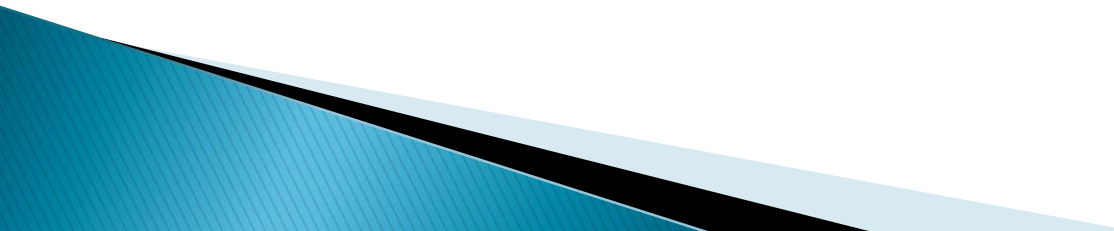
Use of Online Lectures to Facilitate Development of PA Student Competencies in Cancer Care

Michelle DiBaise, MPAS, PA-C
Maura Polansky, MS, MHPE, PA-C

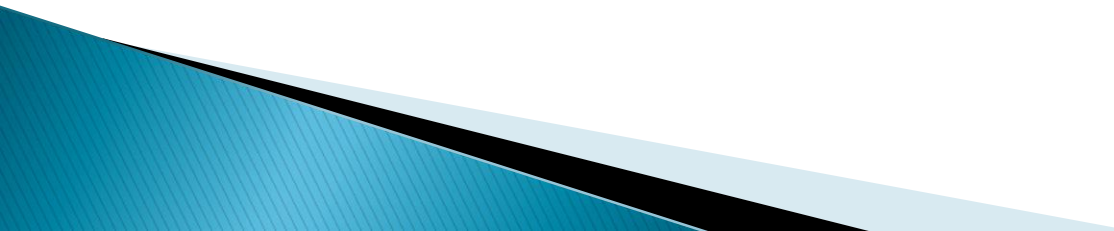
Project Purpose

- ▶ To develop online curricular content related to cancer care
 - ▶ To evaluate the integration of online curriculum by PA programs as part of their didactic instruction
- 

Course Development

- ▶ Provided by the University of Texas MD Anderson Cancer Center
 - ▶ Instructors: PAs working in cancer care
 - ▶ All content reviewed by PA Program Director and Program Manager
 - ▶ Published online via learning management system
- 

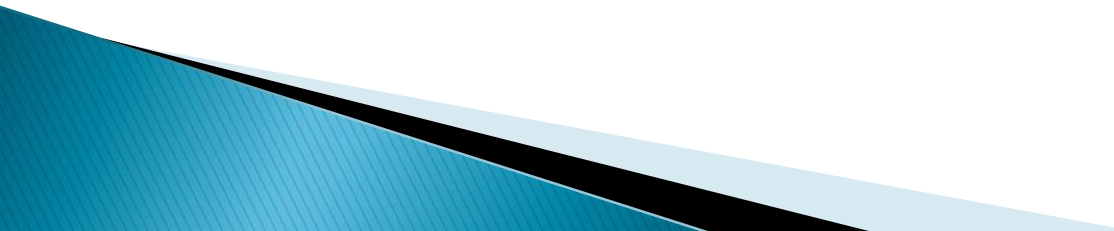
Curricular Content

- ▶ 30 short lectures based on cancers listed in NCCPA blueprint
 - ▶ Content addressed:
 - Risk factors
 - Cancer screening and diagnosis
 - Brief overview of treatment
 - Health disparities
 - Survivorship care
 - ▶ List of key terms and related conditions for each cancer topic
- 

Pilot Utilization Project

- ▶ Content used by Northern Arizona University PA Program
 - Spring 2013– supplemented in-class lectures
 - Summer 2013– used in lieu of in-class lectures
- ▶ Satisfaction surveys developed by MDACC
- ▶ Pre and post tests developed by NAU
- ▶ Case-based learning integrated into classroom instruction
 - Cases developed by PA Cancer experts from MDACC
 - Implemented by NAU faculty in small group format

Evaluation Results

- ▶ NAU-24 didactic students
 - ▶ Survey respondents
 - 21 – spring (20 used course)
 - 16 – summer (16 used course)
- 

PA Student Use

Question	Spring	Summer
Number of presentations viewed:		
1–5 presentations	43%	19%
6–15 presentations	43%	31%
16–29 presentations	0%	25%
All presentations	10%	25%
None	5%	0%
Did you watch any presentations more than once?	29% yes	19% yes
How often did you use the slide handouts?		
Always	60%	88%
Sometimes	35%	6%
How often did you use the key terms/related conditions handouts?		
Always	22%	19%
Sometimes	39%	38%

Quality of Content

Question	Spring	Summer
The information presented was accurate and up-to-date Strongly agree Agree	57% 43%	47% 53%
The information presented was at the appropriate level for 1st year didactic students Strongly agree Agree	57% 43%	56% 38%
The information presented was relevant for developing clinical competencies for PAs going in to primary care practice or other non-oncologic specialties Strongly agree Agree	62% 38%	31% 56%

Satisfaction

	Spring		Summer	
	Very Satisfied / Satisfied	Dissatisfied / Very Dissatisfied	Very Satisfied / Satisfied	Dissatisfied / Very Dissatisfied
Video quality	85%	15%	69%	31%
Sound quality	95%	5%	82%	18%
Learning management system	90%	10%	81%	19%
Length of lectures	90%	10%	94%	6%
Supplemental handouts	100%	0%	94%	6%
Registration process	90%	10%	94%	6%

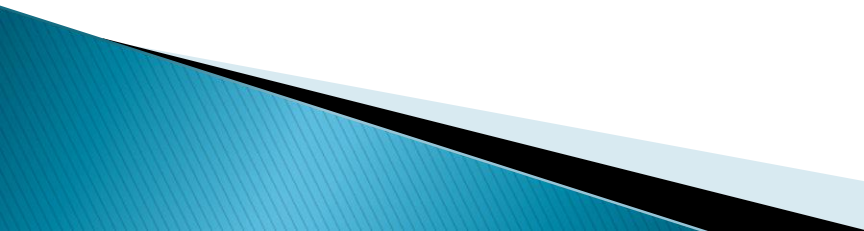
Satisfaction

Question	Spring	Summer
Was any material covered online and not covered in class?	75% yes	100% yes
Did you have any challenges learning material covered only online?	22% yes	25% yes

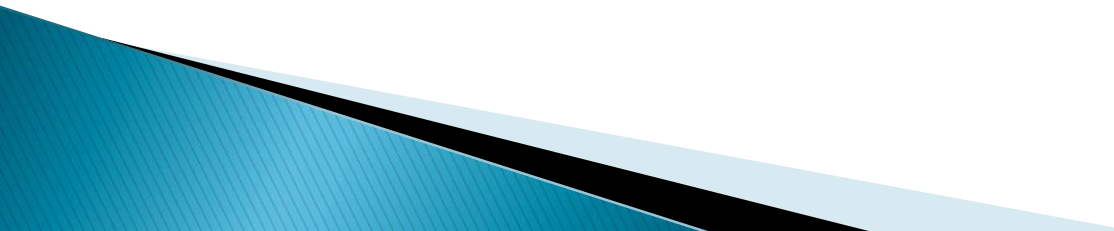
Satisfaction

Question	Spring	Summer
When material was covered in class and online, did it:		
Reinforce key concepts	90%	81%
Provide more in-depth information	55%	75%
Provide redundant information	40%	50%

Students comments

- ▶ “Overall I was very happy with the program and learned a lot.”
 - ▶ “The material was clear and concise.”
 - ▶ “I found the material to be a good supplement and didn't have any trouble learning from the presentations alone. It was challenging to try to determine what would show up on the test however.”
 - ▶ Doing the 2 cases as a class were hugely beneficial (summer semester)
- 

Students Suggestions

- ▶ Reduce text on some slides
 - ▶ More animation from speakers
 - ▶ Provide “movie/videography”
 - ▶ More class time to supplement
- 

Student Assessments

	Pre-test Average	Post-test Average
Spring	49%	76%*
Summer	45%	62%*

* P < 0.001

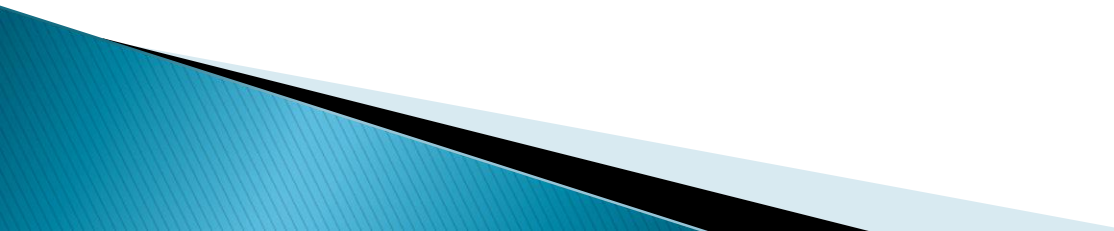
Use for Board Review

- ▶ Keck School of Medicine of USC
- ▶ Six students completed survey
- ▶ Only one indicated that he/she used the online course
- ▶ Chose to view lectures on topics “only minimally covered in the board review class”
- ▶ Agreed information was:
 - Accurate and up-to-date
 - Appropriate level for board review
 - Relevant for primary care PAs

Faculty Surveys

- ▶ Conducted via telephone
- ▶ Strongly agreed information presented was:
 - Accurate and up-to-date
 - Relevant for primary care PAs going
 - At the appropriate level for 1st year didactic students/board review
- ▶ Very satisfied or satisfied with:
 - Video quality; sound quality; learning management system; lecture length; supplemental materials; registration process

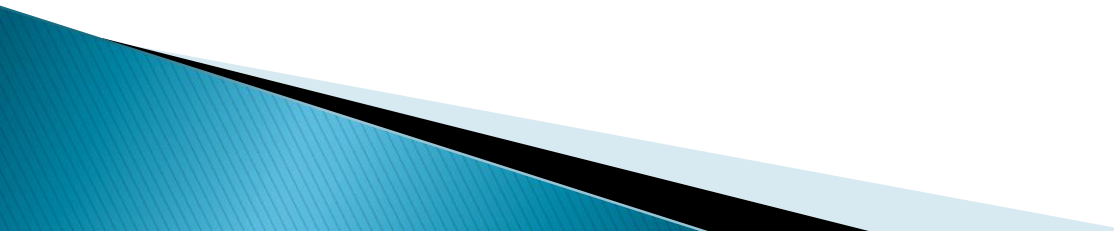
Plans for Future Development

- ▶ Re-recording of speakers to improve delivery
 - ▶ Board review lecture
 - ▶ Annual review of content
 - ▶ Development of Instructor site
 - Increase in number of small group cases
 - ▶ Seek additional funding for program enhancements (graphics/photos)
- 

Instructor Site

- ▶ PA faculty only
- ▶ Resources for faculty provided
- ▶ Forum for sharing information, ideas for classroom activities, etc.

Special Thanks

- ▶ PA Instructors
 - ▶ Program Manager: Lorianne Classen, MPH
 - ▶ Donation from Laura and John Arnold Endowment
- 

Questions?