IGNITE GROUP LEARNING WITH ONLINE COLLABORATION:

AN INNOVATIVE APPROACH TO TEACHING PICO
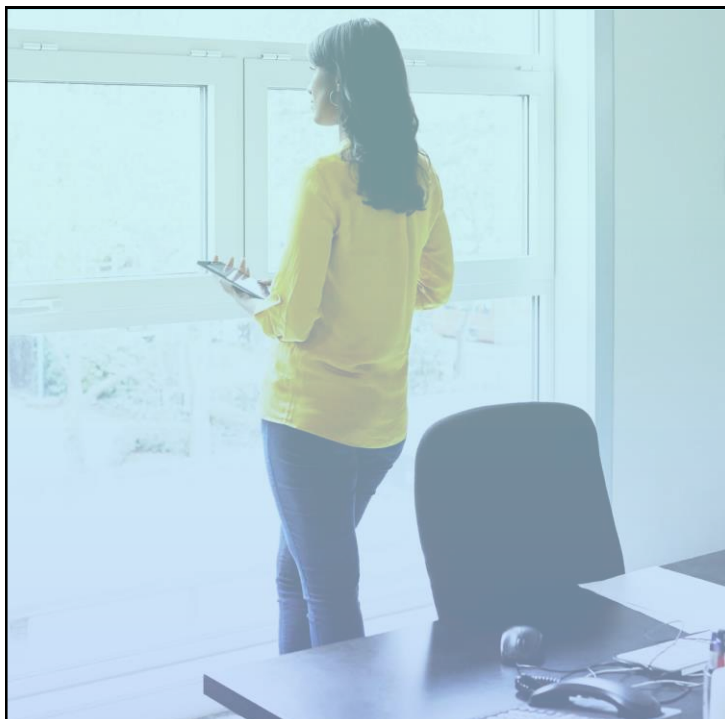
TRANSFORM 2021 ~ DECEMBER 3, 2021

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BACKGROUND

2020 AACN-Apple
Digital Innovation Bootcamp:
From Content to Action

COLLABORATION

Catheter Associated Urinary Tract Infections in Nursing Homes

- **Databases used:** CINAHL Complete
- **Number of initial results:** 32
- **Filters applied:** Last five years
- **Final number of results:** 17
- **Article one:** Doernberg,S., Dudas, V & Trivedi, K., K. (2015). Implementation of an antimicrobial stewardship program targeting residents with urinary tract infections in three community long-term care facilities: A quasi-experimental study using time-series analysis. Antimicrobial Resistance and Infection Control. 4(54). https://doi.org/10.1186/s13756-015-0095-y
- **Article two:** Shane, M. (2021). Antimicrobial Stewardship in Long-Term Care Facilities: Focus on Suspected Urinary Tract Infection. Urologic Nursing, 41(1), 21-31. doi.org/ 10.7257/1053-816X.2021.41.1.21

Type of study, summary, and reflection are in the audio clip.

- **Databases used:** ProQuest Nursing & Allied Health Source, PubMed
- **Number of initial results:** 619, 530
- **Filters applied:** Last five years, full text, scholarly journals
- **Final number of results:** 97, 29
- **Article one:** Smith, S. N., Greene, M. T., Mody, L., ... L. D. (...). Evaluation of the association between Nursing Home Survey on Patient Safety culture and catheter-associated urinary tract infections: results of a national collaborative. BMJ ... 27(6), 464. http://ezproxy.felician.edu:2301/10.1136/bmjqs-2017-006610
- **Article two:** Ryu, S., Oh, S. K., Cho, S. U., You, Y., Park, J. S., Jin, H. M., Jeong, W., Cho, Y. C., Ahn, H ... ang, C. (2020). A novel predictive tool for prognosis in elderly patients with urinary tract infection: Mod ...CTICE. The American Journal of Emergency Medicine, 38(10), 2002-2006. http://...xy.felician.edu:2301/10.1016/j.ajem.2020.06.037

Type of study, summary, and reflection are in the audio clip

- **Databases used:** IBM SPSS statistics program, CDC.
- **Number of initial results:** 28 interventions based on article 2
- **Filters applied:** indwelling, infection
- **Final number of results:** 232 positive urine cultures for article 1; 73 effective interventions for article 2
- **Article One:** Fagan, M., Lindbæk, M., Grude, N., Reiso, H., Romøren, M., Skaare, D., & Berild, D. (2015). Antibiotic resistance patterns of bacteria causing urinary tract infections in the elderly living in nursing homes versus the elderly living at home: an observational study. BMC geriatrics, 15(1), 1-7.
- **Article Two:** Meddings, J., Manojlovich, M., Fowler, K. E., Ameling, J. M., Greene, L., Collier, S., & Saint, S. (2019). A tiered approach for preventing catheter-associated urinary tract infection. Annals of internal medicine, 171(7), S30-S37.

Type of study, summary, and reflection are in the audio clip.

	Presentation falls within required time.	Presentation is 1-2 minutes over or under required time.	Presentation is 3-4 minutes over or under the required time.	Presentation is 5 or more minutes over or under the required time.
	Poster is clear and visually appealing with no errors.	Poster has a few areas that are difficult to read or contains few errors.	Poster has several areas that are difficult to read or has several errors.	Poster is very difficult to read, has several errors, and visually unappealing.

DIGITAL ECOSYSTEM EQUITY

EVALUATION OF THE ASSIGNMENT

METHODS

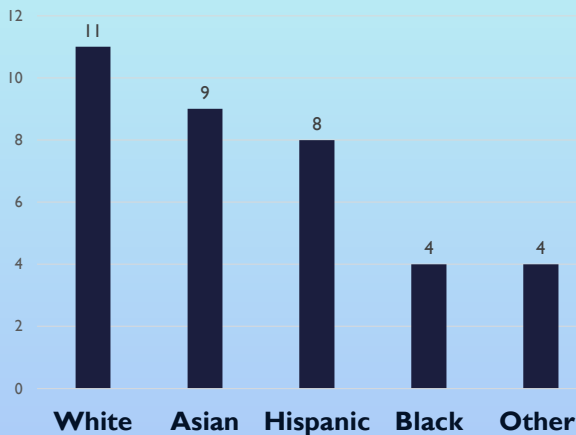| Convenience Sample:	Design:	Timeline:	Site:
50 prelicensure students taking nursing research	Pre and Post Survey	Spring 2021	Felician University, Lodi, NJ

PRESURVEY RESULTS (N=30)

Race & Ethnicity
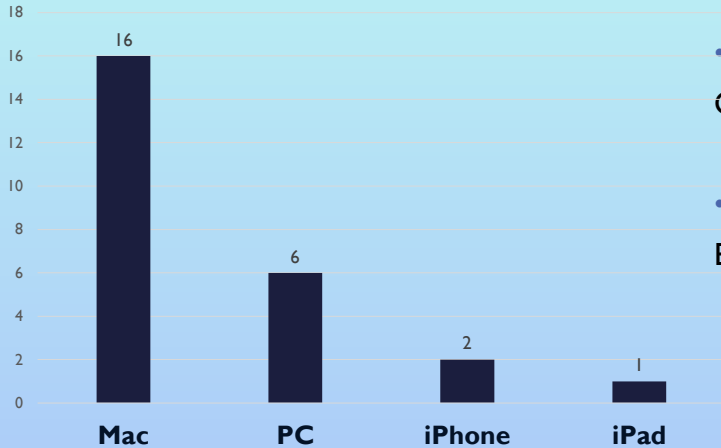

Junior Prelicensure Nursing Students

- 53% aged 18-24
- 47% aged 25 – 43
- 30% First generation
- 10% Bachelor's degree (non-Nursing)

Primary Device Used

- 3.6 out of 5 =
Overall Experience Using PICO Pal

- 3.8 out of 5
Effectiveness Teaching PICO Process

9

Question	Pre Survey (Agree or Strongly Agree)	Post Survey (Agree or Strongly Agree)	% Change in Agree/Strongly Agree	% Change in Strongly Agree
I am familiar with what PICO is	16% (0 Strongly Agree)	80%	64% ⬆	32% ⬆
I feel competent writing a PICO question	3% (0 Strongly Agree)	71%	68% ⬆	25% ⬆
I know how to find article in the Felician Online Library Databases	75%	92%	17% ⬆	29% ⬆
I am skilled at finding and applying research	40%	60%	20% ⬆	28% ⬆
It is important for nurses to know how to find and apply research	83%	83%	No Change	No Change

10

Question	Pre Survey (Agree or Strongly Agree)	Post Survey (Agree or Strongly Agree)	% Change
I feel confident working in groups with other students	66% (20% Neutral / 10% Disagree / 3% Strongly Disagree)	58% (29% Neutral / 13% Disagree / 0 Strongly Disagree)	8% ⬇ Agree/Strongly Agree 3% ⬇ Strongly Disagree
It is important for nurses to collaborate with others to improve care	90% (10% Neutral / 0 Disagree / 0 Strongly Disagree)	88% (8% Neutral / 4% Disagree / 0 Strongly Disagree)	2% ⬇ Agree/Strongly Agree 4% ⬆ Disagree

DESCRIBE YOUR EXPERIENCE USING PICO PAL

Positive response (n=10)

Liked collaborating on the same doc (n=3)

Instructions lacking (n=2)

Disliked group work (n=2)

WHAT WAS THE BEST PART OF USING PICO PAL?

Explained well / Organized / Easy to Use (n=7)

Collaborating on the same document (n=6)

Easy to record audio (n=2)

Poster (n=2)

Critiquing articles (n=1)

WHAT WAS THE MOST DIFFICULT PART OF USING PICO PAL?

Difficult inserting audio (n=6)

Difficulty editing (n=5)

Instructions lacking (n=3)

Seemed primitive (n=2)

Afraid to lose work (n=1)

WHAT ARE YOUR RECOMMENDATIONS TO IMPROVE PICO PAL?

| Add more instructions (n=5) | Align digital ecosystems (n=2) | Use Google docs (n=2) |

DISCUSSION

- Mandatory Check-in with Faculty
- PICO Exposure
- Technology Learning Curve
- Limitations
- Recommendations

COLLABORATIVE GROUP SUCCESS

COLLABORATIVE TOOLS

THANK YOU!
QUESTIONS?