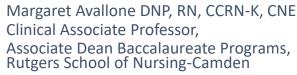


Bridge to Success: Addressing Equity Gaps through a Summer Enrichment Program





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Disclosure

I have received no reimbursement, nor have I any financial disclosures related to this presentation or this project including those with companies associated with any product utilized in the project or mentioned in this presentation.

Learning Outcomes

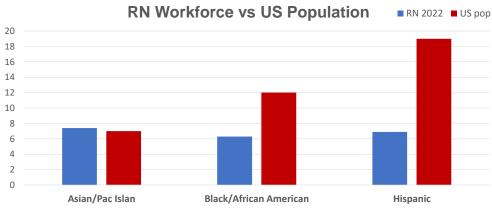
Describe a Bridge to Junior Success Program designed to reduce attrition in junior year and reduce equity gaps

Discuss lessons learned and strategies for future work

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Why focus on retention? Projected nursing shortage Diversified workforce essential for improving health, reducing health inequalities. Underrepresented minority (URM) students may be more at risk due to inequities associated with secondary education in economically disadvantaged communities. Nonacademic barriers Social isolation, caregiving demands, lack of mentorship, inadequate financial resources. AACN (2017), Jeffreys (2013). Villarruel et al (2015), Williams and Dahan (2022),





2022 National Nursing Workforce Survey. National Council of State Boards of Nursing, April 2021; US Census 2020, https://www.census.gov/

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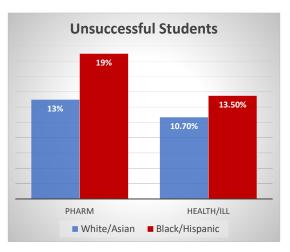


Demographics

- Designated Minority Serving Institution (MSI)
- 800+/- prelicensure students
- 56% ethnic/racial background from underrepresented groups
- 55% first generation college student
- 93.3% freshman retention rate
- 81% 6-year graduation rate
- 97% first time NCLEX Pass Rate (3rd quarter 2023)



Program Assessment



Achievement gap in Pharmacology and Health and Illness (2018-2020)

Rutgers DEI database 2018-2020

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Success Strategies

Campus

- Center for Learning and success
- Wellness Center
- "TRIO" student support
- Freshman supports, including imbedded A & P tutors
- TEAS testing-Early identification of at-risk students
- · Dean of Students



School of Nursing

- Early warning and communication (Student Success Management software)
- Nursing Success Coach and Retention Specialist
- · Faculty Curriculum review
- Imbedded RN course assistants
 - 50% teacher support (grading, proctoring)
 - 50% student support
- Mandatory remediation policies for course or standardized testing failures.



Recruitment Bridge program

- Surveyed juniors spring 2022
 - Used survey results in email recruitment to sophomores April-May 2022
- Visited sophomore classrooms to recruit.
- Reviewed GPA, final grades in sophomore classes (foundations, health assessment and clinical pathophysiology)-
 - All C+ students personally invited to participate.



Sample

Summer 2022 cohort n=78 (50% of rising junior cohort)

Race / Ethnicity	Did not Participate	Participated	Fall 2020 Population
N	78	78	970
Asian	8 (10.3%)	16 (21.1%)	143 (14.7%)
White	41 (52.6%)	37 (48.7%)	479 (49.4%)
African American	12 (15.4%)	5 (6.6%)	139 (14.3%)
Hispanic	14 (18.0%)	12 (15.8%)	159 (16.4%)
All other groups	3 (3.9%)	6 (7.9%)	50 (6.1%)
Female	64 (82.1%)	65 (85.5%)	830 (85.6%)
Male	14 (17.9%)	11 (14.5%)	140 (14.4%)

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Course schedule

- **Six week course** once/week for 1.5 hours via synchronous zoom. Zoom sessions recorded
- 45 min adult health/pharmacology/clinical pathophysiology topics
 - CV, Resp, fluid and electrolytes, acid-base, endocrine, neuro, infection topics
- 45 min applied success strategies- Weekly work product submitted
 - Prepping for class
 - Time management
 - Effective note taking
 - Utilizing ATI resources
 - Creating concept maps
 - Self assessment



Student requirements



Weekly attendance

Synchronously by zoom
Asynchronously if unable to attend

EMAIL IF UNABLE TO ATTEND SYNCHRONOUS MEETING



Submit weekly success assignments

Short reflections, concept map, notes, self-created quiz in ATI learning system dynamic quizzing, self assessment, pre and post survey. FEEDBACK provided on assignments



Submit weekly pharmacology modules and posttest (total of 8)

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Weekly schedule (example)

Prep

- Reading assignment in E-book- take notes and submit screenshots
- Complete Pharm Made Easy Module and posttest (due prior to class)

Class:

- Acid base and ABGs (review)
- Asthma and COPD patho review
- Intro: Medications to treat airflow disorders (reinforce from module)
- Application practice questions (polling in zoom)
- Success strategy- Concept maps

Post class:

Submit concept map on asthma

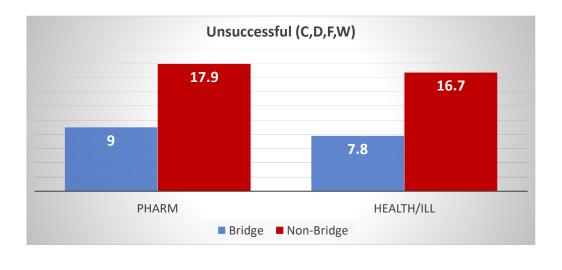
5-point Likert scale: Strongly agree-Strongly disagree "Helped me be more confident for the Fall-87% agree/strongly agree. "Helped me be better prepared for the Fall"-83% agree/strongly agree. "Helped me be better prepared for the Fall"-83% agree/strongly agree. "Helped me be more successful in the Fall"-81% agree/strongly agree "Would recommend to other students"-93% agree/strongly agree.

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Results

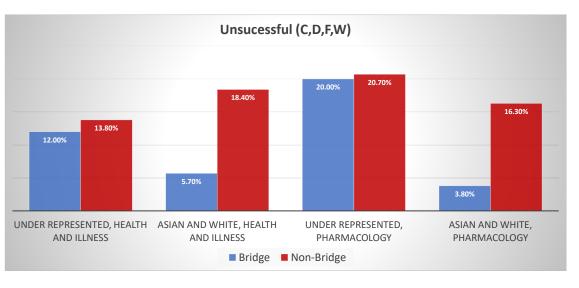
- 78 students participated in the Bridge. Their outcomes are compared to 78 students that did not participate.
- Outcomes are compared for participants vs. non-participants and then disaggregated by ethnicity (Underrepresented minorities vs. Asian/White).
 - The composition of the two groups was roughly equal in terms of ethnicities (bridge = 33% URM, non-bridge = 37% URM; these proportions not significantly different (p=.51)

Academic: % Unsuccessful



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Academic: % Unsuccessful



Limitations/Considerations

- Curricular quality improvement
- One School of Nursing
- One strategy within holistic student success program
- Significant time investment faculty/coach
- Learner motivation not considered with first cohort
 - Modified Motivated Strategies for Learning questionnaire (MSLQ) added
- Non-academic factors not considered in first cohort



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Recommendations

- Use programmatic data to identify opportunities
- RCQI: Revise based on student feedback and outcomes
- Use LMS and zoom analytics to better monitor participation in asynchronous zoom
- Incentivize completion
- Analyze impact of student motivation and use of learning strategies on outcomes (Motivated Strategies for Learning: MSLQ)
- Analyze outcomes for AY 23 summer cohort
- Address non-academic success factors



Summary

Summer bridge programs may help to address structural inequities within nursing programs.

- Targeted based on programmatic outcomes
- Part of a comprehensive success strategy



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