

Monitoring, Learning, and Reporting Diverse Data: An Academic Success Dashboard for Nurse Practitioner Students

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Disclosure

- We have no financial disclosures or other conflicts of interest.



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By the end of the presentation, participants will examine the use of dashboard technology for academic success metric analysis for nurse practitioner (NP) students.



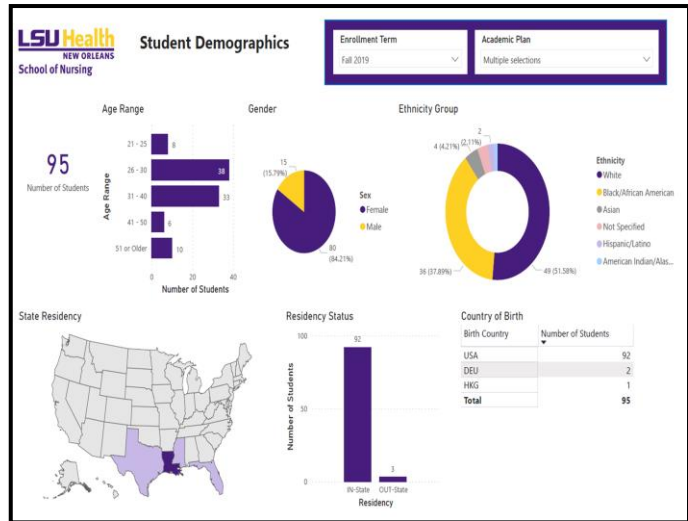
Academic Success

- Heterogeneous literature
- Academic Success
 - Expected minimal GPA (3.0)
 - 1st time successful course completion
 - Time to graduation
- Risk factors against Academic Success
 - Social factors
 - 1st generation college student
 - Disadvantaged background
 - Academic factors
 - Probational admission
 - Course attrition
 - Delayed program progression



Dashboard Technology

- Centralizes data to one source
- Analyzes data
- Visualizes data
 - Aggregate
 - Disaggregate



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Background & Problem

- Setting
 - Urban Academic Health Sciences Center
 - School of Nursing – DNP Program
- NP Student Population
 - 7 population-focused concentrations
 - 47% from underrepresented groups
 - Racial/ethnic, Gender-identity, Disadvantaged backgrounds
 - 14% with risk factors
 - 4% non-underrepresented group with risk factors

Type of Student Data	Data Source
Demographic	Oracle PeopleSoft Name Gender-identity Race and Ethnicity Age
Academic Success Indicators	NursingCAS First-generation college student Disadvantaged background Oracle PeopleSoft Cumulative Grade Point Average Courses Completed Moodle Courses enrolled Grades, midterm and final
Programmatic	Oracle PeopleSoft Date of Admission Expected Graduation Date Program & Concentration enrolled into Microsoft Excel spreadsheet NP Certification results, first-time NP Employment reported



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Purpose

To increase monitoring, learning, and reporting of disaggregated student data from four data sources to one dashboard source in an effort to improve data use.



Results

- 4 sources feed into 1 dashboard source <will add picture of live dashboard during presentation>
 - Microsoft PowerBI software
 - SQL server
- External & Internal Dashboards
 - FERPA considerations



Conclusions

- Dashboard technology
 - Improves efficiency
 - Improves analysis of disaggregated student data



Implications for Diversity, Equity, & Inclusion

- Disaggregating student data facilitates equitable practices.
- Underrepresented student groups can be easily identified and referred to interventions for academic success.



Implications for Nursing Education

- Academic nursing administrators and educators seeking to support the success of a diverse student population can benefit from the efficiencies afforded by using a dashboard.



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