The Use of Data Analytics and Performance Dashboards to Increase Student Engagement

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Introduction and Problem

Creating self-regulated learners is a challenge in nursing education. Implementing the use of a performance dashboard was indicated by a lack of accountability by senior nursing students for co-creating their personal matrix for NCLEX-RN success. Prior to implementing this approach, cohort performance on the standardized testing indicated a probable 40% overall NCLEX pass rate for the cohort. This poster presents work done by the authors at North Carolina A&T State University.

Purpose of the Project

The purpose of the project was to increase student engagement and improve personal accountability to increase NCLEX-RN Success. **(Heutagogy)**

Clinical Questions/PICOT

In senior nursing students , does the implementation of a data analytic model and performance dashboard, as opposed to the use of traditional approaches, increase student engagement and accountability for NCLEX-RN success?

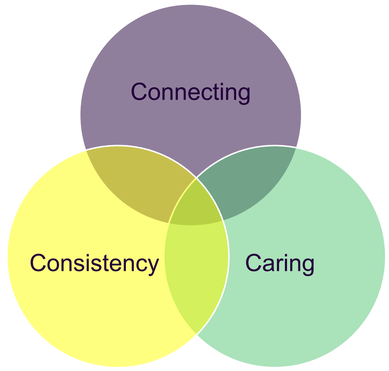
Social Determinants of Learning

Chamberlain University https://bit.ly/3eU7x0e

Six Questions

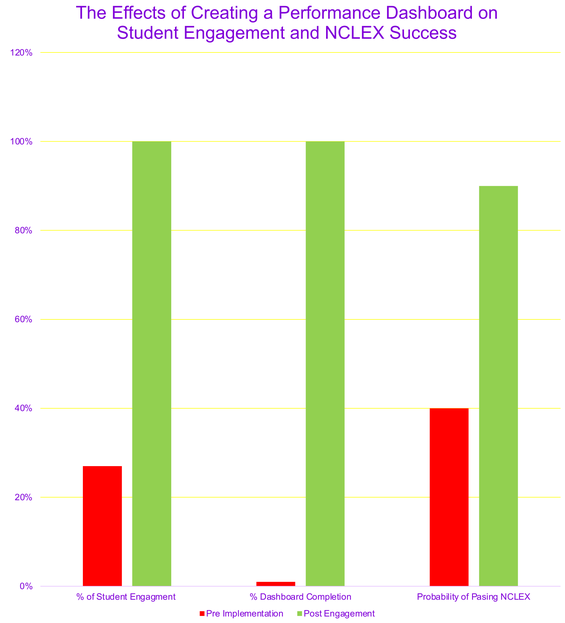
1. What questions are you trying to answer with the data you have?
2. What does the data tell you? Look for trends, failures and outliers,
3. What does the data not tell you that you need to know ?
4. What are the causes for celebration?
5. What are the opportunities for improvement ?
6. What are our next steps ?

Academic Coaching Model



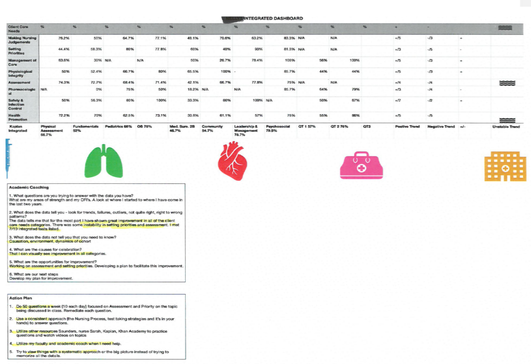
The 3 "C' Academic Coaching Model

Results



Student Examples of Performance Dashboard

Kaplan Test Name	Fundamentals A	OB A	Pharmacology / Parenteral Therapy	Psychosocial	Leadership & Management	Pediatrics	Goal Met / Unmet	Trend
and Maintenance	My Percentage: 62.5 Norm: 79	My Percentage: 80.8 Norm:73	My Percentage: Norm:	My Percentage: 25 Norm: 40	My Percentage: 71.4 Norm: 73	My Percentage: 90 Norm: 78	UNMET	UN-STEADY
Pharmacological/ Parenteral Therapies	My Percentage: 100 Norm: 80	My Percentage: 100 Norm: 80	My Percentage: 77 Norm: 57	My Percentage: 100 Norm: 61	My Percentage: Norm:	My Percentage: 50 Norm:65	MET	UN-STEADY
Physiological Adaptation	My Percentage: 88.3 Norm:78	My Percentage: 83.3 Norm: 78	My Percentage: 100 Norm: 15	My Percentage: 100 Norm: 72	My Percentage: Norm:	My Percentage: 66.7 Norm: 62	MET	STEADY
Basic Care and Comfort	My Percentage: 84.6 Norm: 63	My Percentage: Norm:	My Percentage: Norm:	My Percentage: Norm:	My Percentage: Norm:	My Percentage: 100 Norm: 86	MET	STEADY
Management of Care	My Percentage: 75 Norm: 68	My Percentage: Norm:	My Percentage: Norm:	My Percentage: 100 Norm: 85	My Percentage: 72.6 Norm: 73	My Percentage: 75 Norm: 68	MET	UN-STEADY
Safety and Infection Control	My Percentage:80 Norm: 71	My Percentage: 50 Norm: 92	My Percentage: Norm:	My Percentage: Norm:	My Percentage: 71.6 Norm: 73	My Percentage:80 Norm: 71	MET	UN-STEADY
Reduction of Risk	My Percentage: 75 Norm: 50	My Percentage: 71.4 Norm: 63	My Percentage: Norm:	My Percentage: Norm:	My Percentage: Norm:	My Percentage: 75 Norm: 63	MET	STEADY
Psychosocial Integrity	My Percentage: Norm:	My Percentage: 100 Norm: 87	My Percentage: Norm:	My Percentage: 75.4 Norm: 67	My Percentage: 100 Norm: 87	My Percentage:100 Norm: 86	MET	STEADY



Student Response to Completion of Dashboard

"My perspective is that this is a great way to actually see your progression throughout the program where I started from and where I am now. Great way to considered where my "OFI's" are as well as celebrate areas of strengths." NC A&T nursing student

Center for NCLEX-RN Success Activity

Recommendations for Future Practice

- ✓ Continue to engage students in becoming self-regulated learners
- ✓ Early use of the performance dashboard is indicated at the beginning of the program
- ✓ Use standardized testing to improve engagement and improve academic performance in the nursing program

References and Contact Information

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