Using Standardized Test Data to Drive Curricular Change

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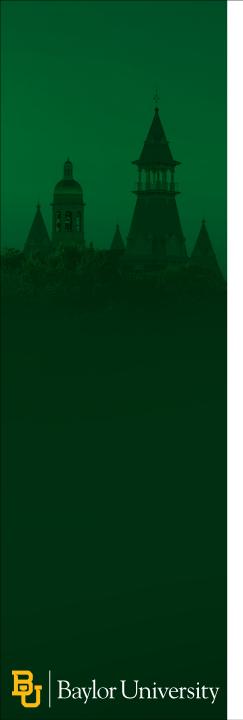


Disclosure & Learner Outcome

The presenters have no conflicts to disclose.

The learner will be able to create a process using standardized test data that evaluates student learning to drive curricular change.





Background

- HESITM Medical Surgical Specialty Examination
 - Benchmark to measure student learning

(Brunnert, Vesey, Mee, & Ambrose, 2005)

- 900 the minimum recommended performance
- Mean scores F15 Sp17 did not meet benchmark

- Faculty Collaboration
 - Pathophysiology/pharmacology
 - Medical-surgical concepts



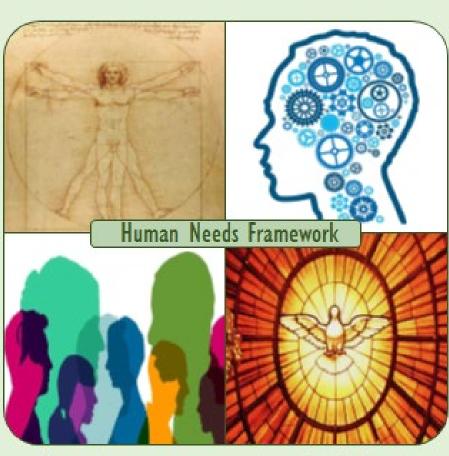
Human Needs Framework

Physiological

- Activity and Rest
- Nutrition
- Elimination
- Fluid and Electrolytes
- Oxygenation & Circulation
- Regulation, Sensation, & Perception
- Safety & Comfort
- Cellular Adaptation
- Reproduction

Social

- Love, belonging, and approval
- Important that this process is reciprocal



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Psychological

- Understanding, order, & predictability
- Adequacy, competency, & security
- Self-esteem, worth, & identity
- Personal growth and fulfillment

Spiritual

- Relatedness
- Meaning
- Values
- Hope
- Forgiveness



Methods

• Analysis of assessment data

WEEKS 1-7 Spring 2018 Med Surg HESI Concepts: Cohort Mean 914 (n=72)	Level 1	# of ?s	Level 2	# of ?s
(11) Cardiovascular			894	7
(12) Endocrine			858	8
(13) GI/Hepatic	955	7		
(14) Immune/Hematology			989	6
(15) Integumentary	957	7		
(16) Musculoskeletal	838	4		
(17) Neurological			971	5
(18) Oncology			876	3
(19) Operative	1106	6		
(20) Physical Assessment	1027	5		
(21) Renal	877	7		
(22) Respiratory			944	5
(23) Reproductive			1073	2
(24) Sensory			1111	3
(25) Trauma/Emergency			nd	Nd
TOTAL WEEKS 1-7 Spring 2018 Med Surg HESI Concepts:	960	36	965	39

- Need to remediate concepts learned in previous courses
- Blend those concepts with current learning



Methods

- Faculty collaborated and agreed to
 - Integrate previously learned content into
 - Patho/Pharm and Med/Surg courses
 - Faculty-led tutoring
 - Comprehensive exams
 - Content from past semesters (20%)
 - Current course material (80%)





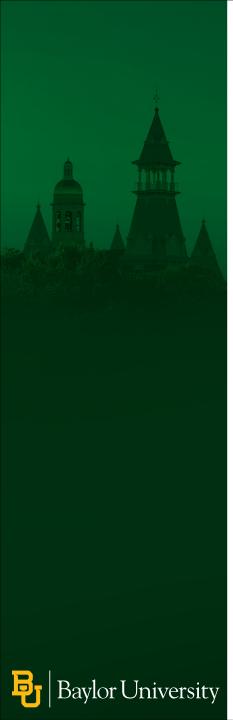




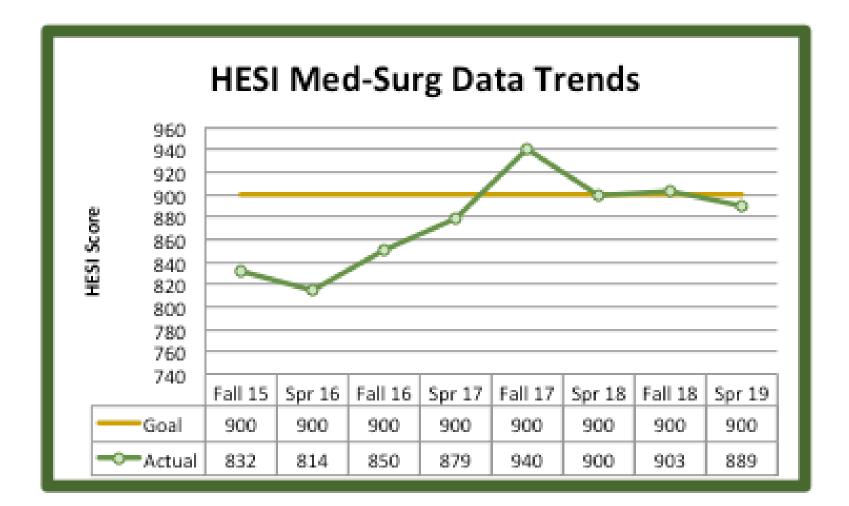
Results

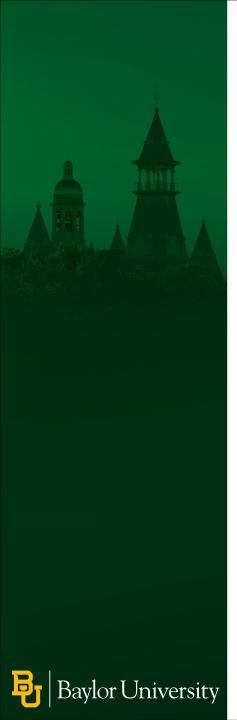
- During the first semester, average HESITM scores
 - Increased 847 to 936 in the generic track (9%)
 - Increased 879 to 943 in the accelerated track (9.3%)

- Program data trends over the next two years
 - Revealed average HESITM scores of 908
 - Continue to meet the established criterion



Trends





Implications for Practice

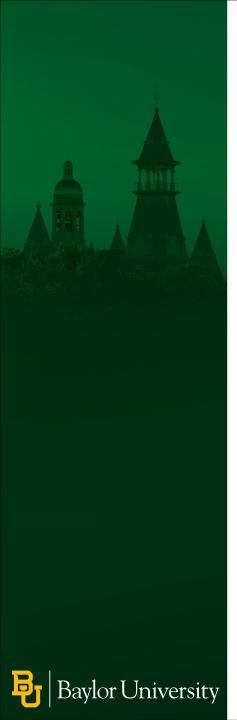
- Analysis of data trends inform faculty of student needs and drive the development of strategies to
 - Promote student learning

• Judge student performance

• Determine competence to practice

(Oermann & Gaberson, 2016)

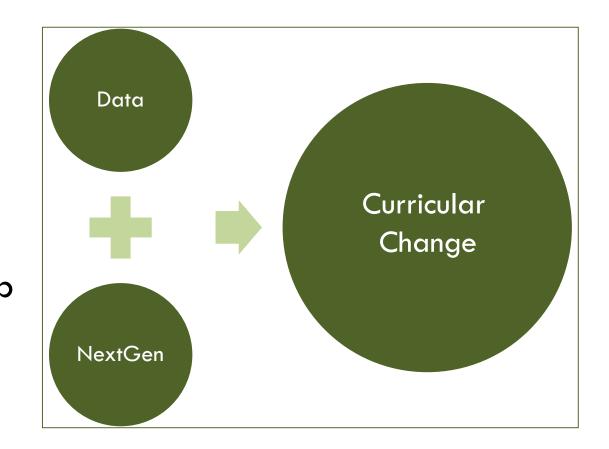




Next Steps

 Educational assessment using trended data from national standardized tests is a resource to help inform curricular

decisions





References

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