

Early Outcomes of the Duke Master of Biomedical Sciences (MBS) Program: An Interprofessional Special Master's Degree Program

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BACKGROUND

- Pathways to health professions careers are increasingly competitive,
- ~ 15% med students pursue a postbaccalaureate program (PB),
- > 250 programs in the Association of American Medical Colleges (AAMC) PB database lists with no consistent structure or curriculum,
- Few systematic outcomes reported,
- Students tend to be older, minority, not children of physicians (7-8), more likely to choose primary care and serve the underserved,
- The MBS is unique with interprofessional faculty
- We report first cohort outcomes and impact.

MBS GOALS

- Prepare students to be highly competitive candidates for health professions schools, biomedical careers and other health-related professions,
- Increase integration of biomedical content and professional formation through experiential learning,
- Promote efforts to create and sustain workforce diversity,
- Enhance educational innovation.



METHODS

Curriculum: 38 credits representing 75% of Duke's first year MD curriculum + EMT, Health Policy, Med Statistics, Evidence Based Medicine, Journal Club, Small group seminar + Selectives,

Faculty: PhD, MD, PT, PA, DNP, PharmD, Nutrition, representing 10 basic science and clinical science departments,

Educational Strategies: Team Based Learning, Peer Assessments, Narrative Writing, Reflection, Critical Thinking Exercises,

Student success: tracked through postgraduate surveys and contacts through email, telephone, and in-person,

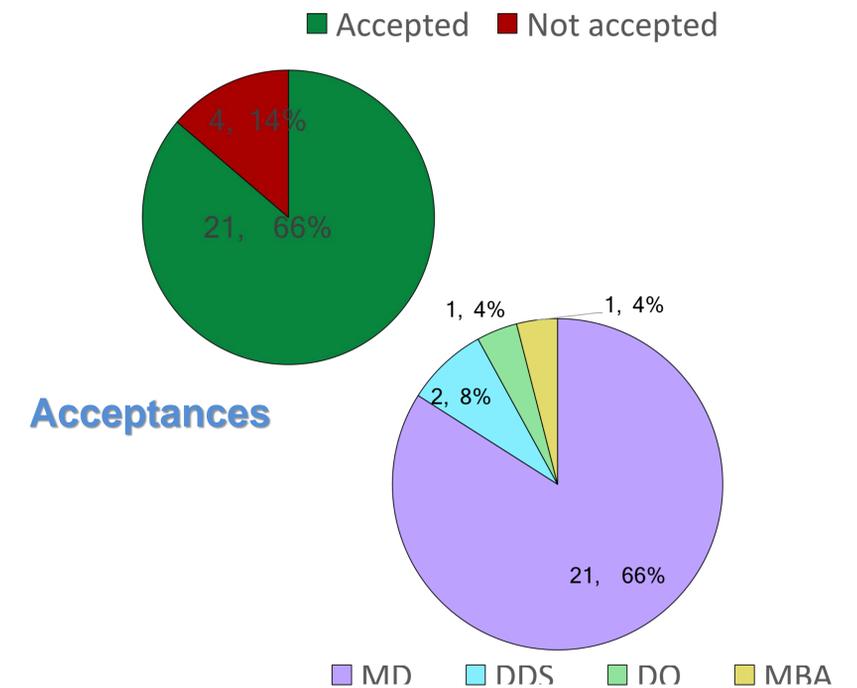
Faculty impact: tracked through surveys and informal communication,

The study was reviewed by the Duke SoM Institutional Review Board which determined it exempt.

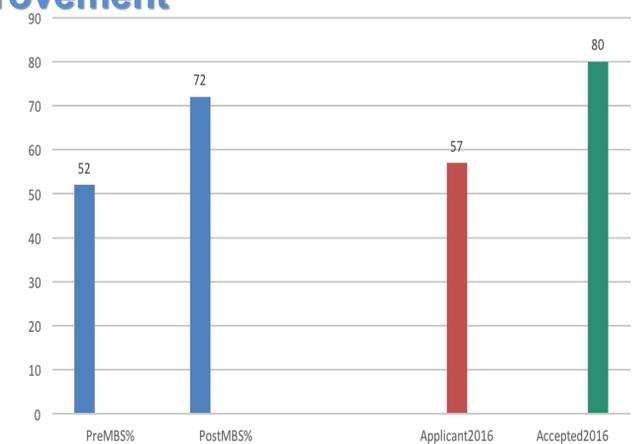
July	Aug	Sept	Oct	Nov	Dec	Jan	Feb	Mar	April	May
Human Structure		Cellular Science			Organ Systems					
Essentials of Health Practice and Professional Development (HPPD)										
EMT Course			EMT Clinicals							
Medical Statistics				Health Systems						
Evidence Based Medicine/Journal Club										
Selectives										



MBS 2016 RESULTS



MCAT Improvement



MBS 2016 RESULTS

- > 250 applications
- Acceptance Yield:
 - 33 students matriculated
 - 24 universities,
- ~ 1/3 racially/ethnically underrepresented in medicine,
- ~ 1/3 rural born, 1st generation to college, English not 1st language, LGBTQ + or other disadvantage.

- Many spent subsequent "gap year" working at Duke in research or clinical activities ; ¾ through MBS connections,
- All students not in school are employed,
- ↑interprofessional collaboration, educational innovations, scholarship, faculty teaching time,
- Duke SOM first Medical Education postdoc.

CONCLUSIONS

The first MBS graduates demonstrated positive outcomes for themselves, faculty, and the School of Medicine