STATE OF MEDICAL EDUCATION





Topics

- Admissions
 - Current Students
- Office of Medical Education
 - Curriculum
 - Outcomes
- Student Affairs
- Office of Academic Support





Admissions

- High Schools 2015-2016
 - 3,491 students in 30 schools in 16 counties
 - Targeting underserved, females, and minorities
 - Pre- and post-testing indicate over a 75% increase in health care awareness and knowledge
- Colleges
 - Focused on in-state students
 - MOU with Hampton University
- Summer Academy
 - Participants are primarily from West Virginia universities/colleges and can range from freshmen to seniors
 - 14% of total participants accepted to the Joan C. Edwards School of Medicine
 - 22% of total participants accepted to West Virginia medical schools





Admissions

- Accelerated BS/MD Program
 - ACT of 30 with Math of 27

 2015-2016 42 applicants, 33 were selected for interviews, of which 22 were female, 7 applicants had participated in pipeline programs

Current year selection of candidates in process.





Admissions

- Accelerated BS/MD Program
 - The Multi-Mini-Interview process which was piloted last year, was well received by interviewers and applicants. This method for interviewing applicants will continue.
 - The MMI is a short, structured interview to assess non-cognitive qualities:

Cultural Sensitivity

Teamwork

Reliability

Maturity

Empathy

Communication Skills





Current Students

	2016	2015	2014	2013	2012	2011	2010	2009	2008
Overall GPA	3.6	3.5	3.6	3.6	3.5	3.5	3.5	3.5	3.5
Science GPA	3.4	3.4	3.5	3.5	3.4	3.4	3.4	3.4	3.4
Average MCAT	28.8	28.5	28.5	27.9	29.1	29.3	29.1	27.2	26.9
Gender of Entering Class									
Males	50	50	46	44	46	49	47	40	35
Females	33	26	33	31	20	22	28	34	43

For 2016 – 1782 applicants, 206 are WV Residents, 86 are female, and we interviewed 153 of them

For 2017 – 1980 applicants; 160 are WV Residents; 77 are female; and we will interview 90 total WV applicants





Current Students

n = 305

LOA = 9

Entering Class	2016	2015	2014	2013	2012	2011	2010
	N = 83	N=75	N=79	N=75	N=66	N=71	N=75
Underrepresentated Minorities in Medicine	6% (5)	11% (8)	7% (5)	12% (9)	6% (4)	3% (2)	5% (4)
All Minorities*	18% (15)	20% (15)	17% (13)	28% (21)	11% (7)	11% (8)	19% (14)
Females	40% (33)	31% (23)	42% (33)	41% (31)	30% (20)	31% (22)	37% (28)
From Appalachia Counties	93% (76)	77% (58)	80% (63)	79% (59)	59% (39)	68% (48)	73% (55)
Rural Hometowns - WV	36% (26 of	35% (16 of	35% (21 of	36% (19 of	31% (9 of	38% (15 of	42% (20 or
Residents Only	73 Res.)	46 Res.)	61 Res.)	53 Res.)	29 Res.)	40 Res.)	48 Res.)





Office of Medical Education





Pre-Clinical Schedule

FIRST YEAR COURSES							
MDC 710 Elements of Medicine	MDC 711 Structure and Function I	MDC 712 Structure and Function II	MDC 713 Structure and Function III	MDC 714 Structure and Function IV	SUMMER		
Molecular Basis of Medicine, Basic Tissue Types, Intro to Hematology	Musculoskeletal, Integument, Spinal Cord and Peripheral Nerves	Head and Neck, Brain and Behavior	Cardiovascular, Respiratory and Renal Systems	Gastrointestinal, Endocrine and Reproductive Systems	Electives Available		
IDM 715 - Introduction To Clinical Skills							

SECOND YEAR COURSES							
Students must pass the USMLE Step One to be promoted to Year 3							
MDC 750 Principals of Disease Therapeutics I MDC 751 MDC 752 MDC 753 MDC 754 Disease & Disease & Disease & Therapeutics IV							
Core Concepts, Infectious Disease, Antimicrobials, Neoplasia, Immunology	Musculoskeletal, Dermatology and Hematology Systems	Nervous System, Eye and Psychopathology	Cardiovascular, Respiratory and Renal Systems, ENT	Gastrointestinal, Endocrine and Reproductive Systems, Toxicology	Prepare for USMLE Step One		
MED 755 - Advanced Clinical Skills							





Clinical Curriculum

THIRD YEAR COURSES

Students must pass the MUJCESOM Clinical Competency Examination to be promoted to Year 4
*During third and fourth years students are required to complete the established list of Procedures and Patient
Encounters.

8 WEEKS	8 WEEKS	8 WEEKS	8 WEEKS	4 WEEKS	4 WEEKS	8 WEEKS
Family Practice Clerkship	Internal Medicine Clerkship	Obstetrics/ Gynecology Clerkship	Pediatrics Clerkship	Psychiatry Clerkship	Neurology Clerkship	Surgery Clerkship

FOURTH YEAR COURSES

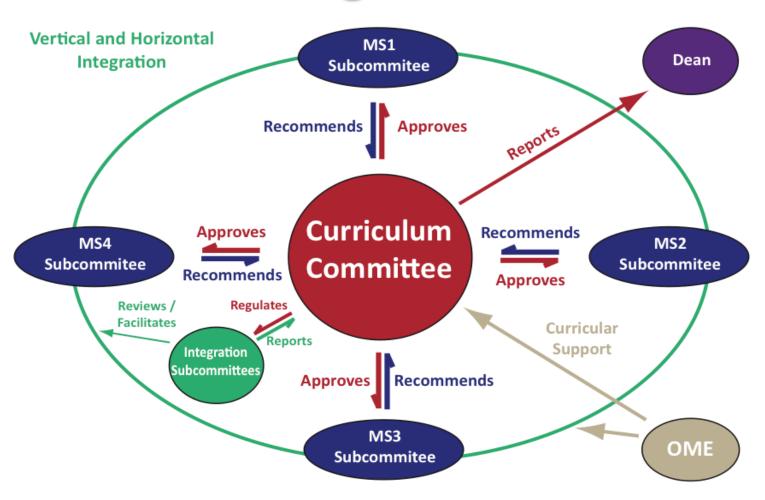
Students must pass the USLME Step Two Clinical Skills and Clinical Knowledge Examinations, and Year 4 Radiology Exam. *During third and fourth years students are required to complete the established list of Procedures and Patient Encounters.

2 WEEKS	4 WEEKS	2 WEEKS	28 WEEKS
Required Emergency Medicine	Selective Sub-Internship Choose 1 of 7 options: Family Med; Internal Med; Obstetrics; Orthopaedics; Pediatrics; Psychiatry; Surgery	Selective ICU Choose 1 of 4 options: Medical, Neonatal, Pediatric, Surgical	Electives





Integration





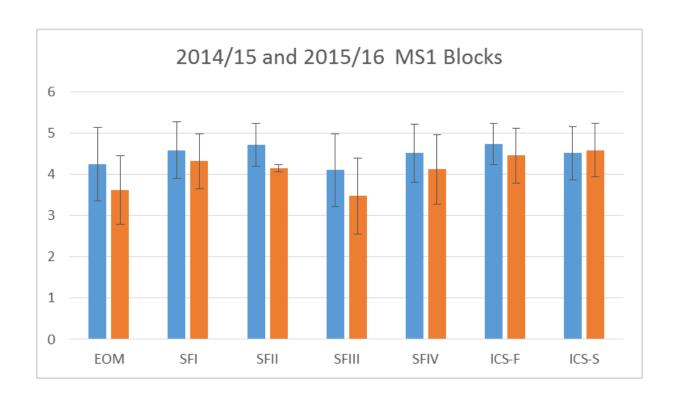


Pre-Clinical Outcomes





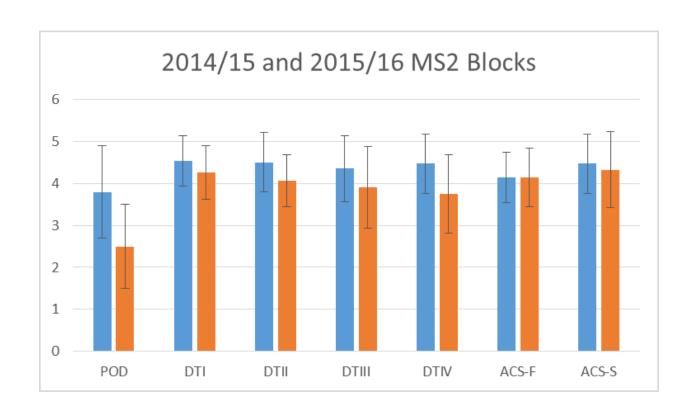
Student Satisfaction







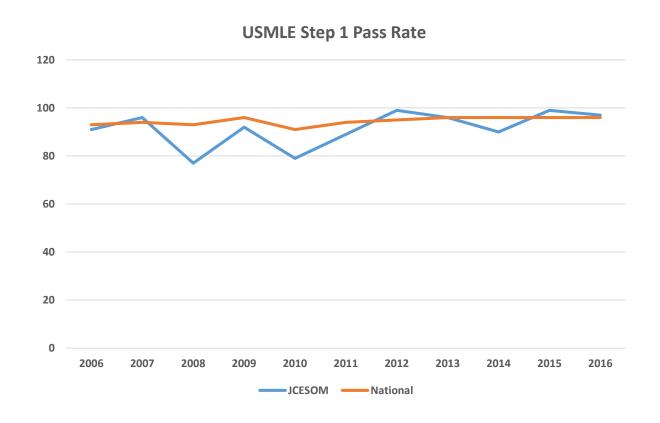
Student Satisfaction







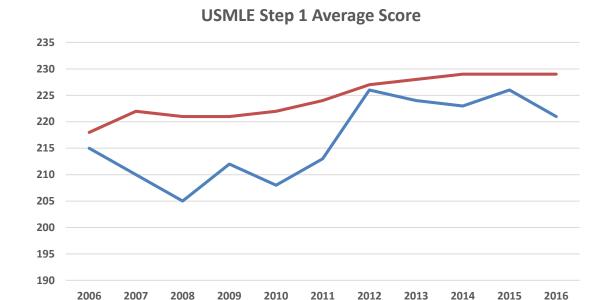
USMLE Step 1 Pass Rate







USMLE Step 1 Average Score



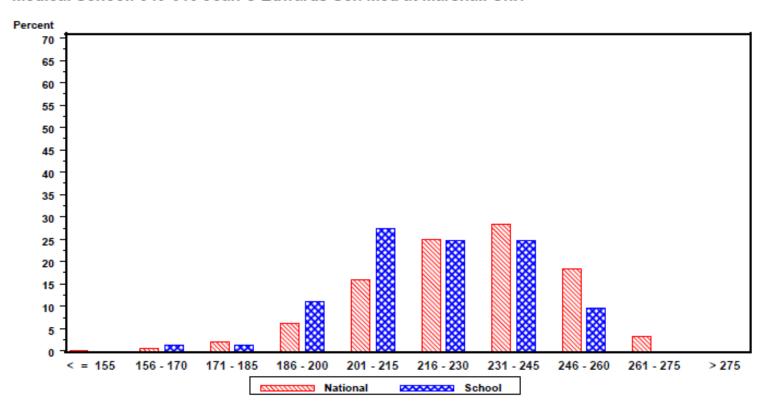
JCESOM ——National





USMLE Step 1 Score Distribution

Medical School: 049-010 Joan C Edwards Sch Med at Marshall Univ



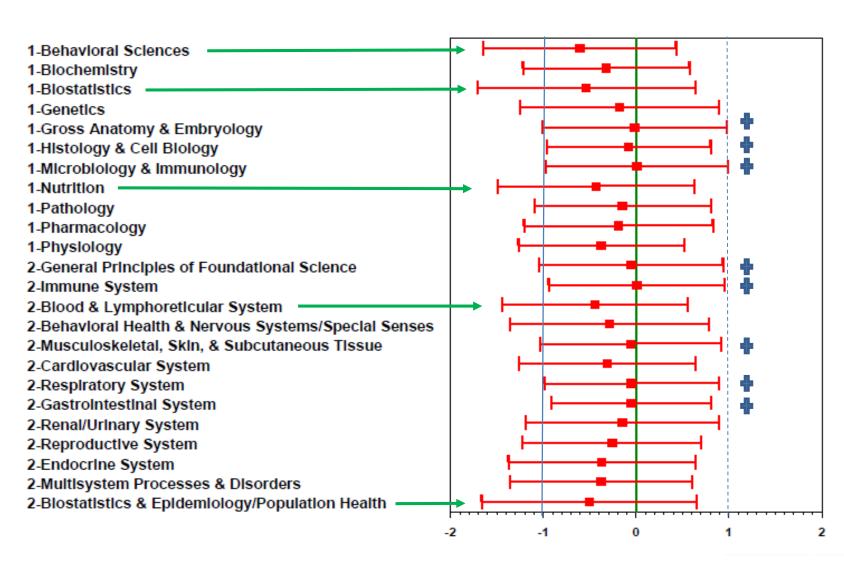




NATIONAL BOARD OF MEDICAL EXAMINERS®

Interim Report on Performance of Examinees Taking USMLE Step 1 for the First Time in 2015 with Scores Reported Through September 23

Medical School: 049-010 Joan C Edwards Sch Med at Marshall Univ



NATIONAL BOARD OF MEDICAL EXAMINERS®

Interim Report on Performance of Examinees Taking USMLE Step 1 for the First Time in 2016 with Scores Reported Through September 28

Medical School: 049-010 Joan C Edwards Sch Med at Marshall Univ

1-MK: Applying Foundational Science Concepts 1-PC: Diagnosis

1-PC: Diagnosis
1-PC: Management

1-PBLI: Evidence-Based Medicine

2-Behavioral Sciences

2-Biochemistry

2-Genetics

2-Gross Anatomy & Embryology

2-Histology & Cell Biology

2-Microbiology & Immunology

2-Nutrition

2-Pathology

2-Pharmacology

2-Physiology

3-General Principles

3-Immune System

3-Blood & Lymphoreticular System

3-Behavioral Health & Nervous Systems/Special Senses

3-Musculoskeletal, Skin, & Subcutaneous Tissue

3-Cardiovascular System

3-Respiratory System

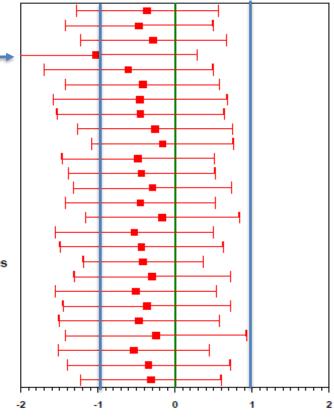
3-Gastrointestinal System

3-Renal/Urinary System

3-Reproductive System

3-Endocrine System

3-Multisystem Processes & Disorders







Identifying Students at Risk





Risk Factors for Failing Step 1

- MCAT
- 1st MS 1 exam
- Overall MS 1 performance
- Overall MS 2 performance
- 2nd year Miniboard performance
- CBSSA performance



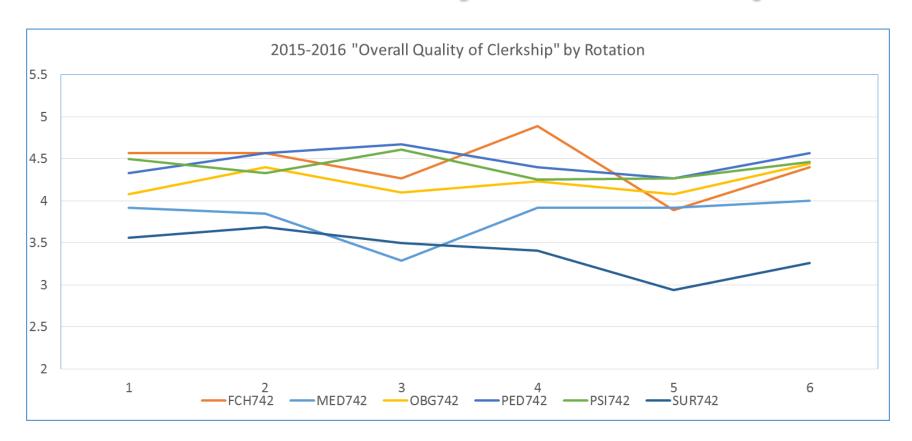


Clinical Years Outcomes





Overall Quality of Clerkships







Rate the quality of your educational experiences on the following clerkships:

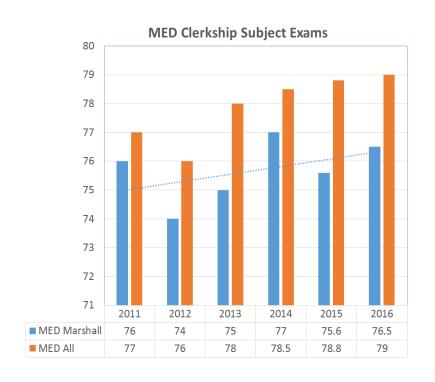
2015-2016 (2014-2015)

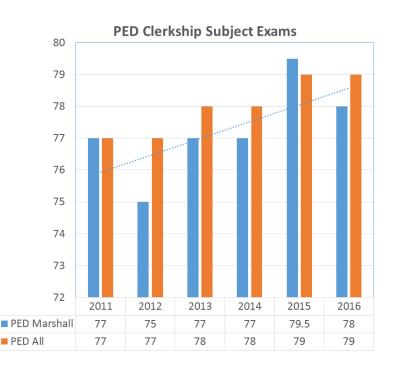
	Poor %	Fair %	Good %	Excellent %
Family Medicine	0.0 (0.0)	2.4 (0.0)	23.8 (26.9)	73.8 (73.1)
Internal Medicine	2.4 (3.8)	16.7 (11.5)	50.0 (40.4)	31.0 (44.2)
OB/GYN	2.4 (3.8)	4.8 (1.9)	23.8 (17.3)	69.0 (76.9)
Pediatrics	9.5 (1.9)	11.9 (1.9)	31.0 (19.2)	47.6 (76.9)
Psychiatry*	4.8 (0.0)	11.9 (9.8)	50.0 (43.1)	33.3 (47.1)
Neuroscience*	0.0 (0.0)	9.5 (0.0)	23.8 (30.8)	66.7 (69.2)
Surgery	21.4 (13.5)	23.8 (19.2)	45.2 (38.5)	9.5 (28.8)





Clerkship Exams

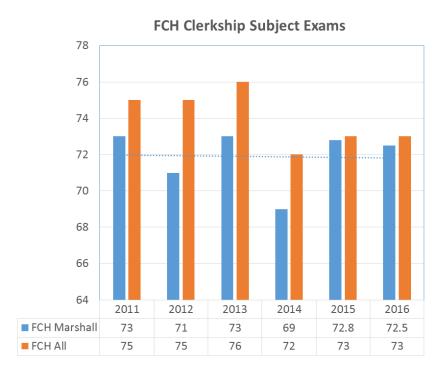


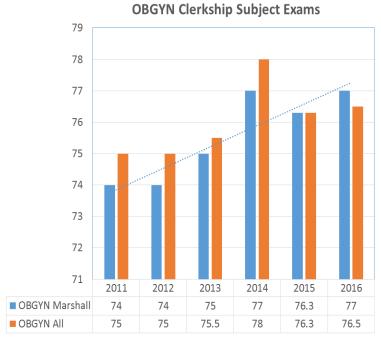






Clerkship Exams

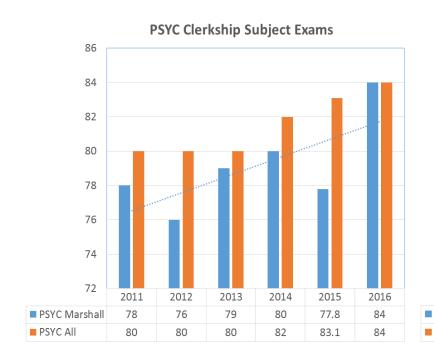


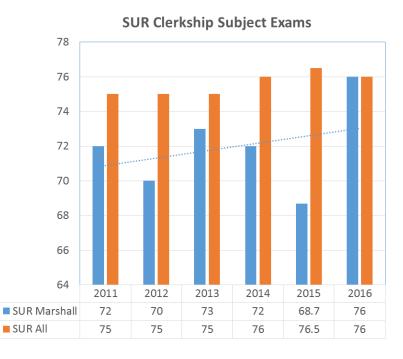






Clerkship Exams

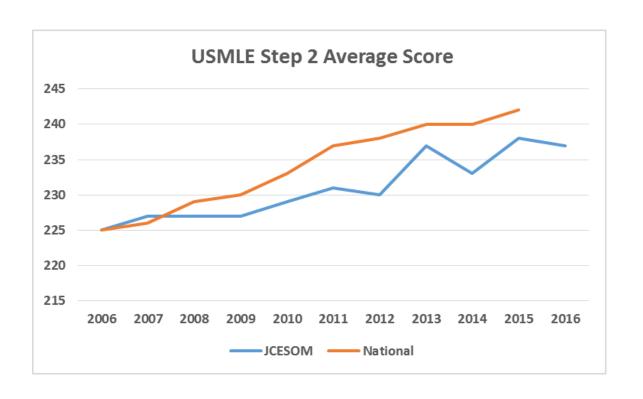








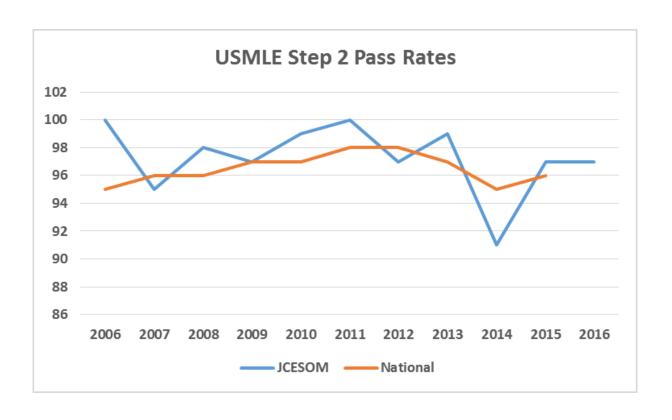
USMLE Step 2 CK Average Score







USMLE Step 2 CK Pass Rate



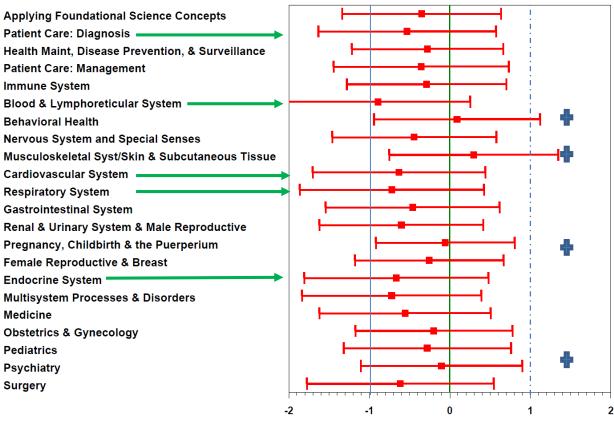




NATIONAL BOARD OF MEDICAL EXAMINERS®

Performance of Examinees Taking USMLE[®] Step 2 Clinical Knowledge (CK) for the First Time in the Academic Year July 2014 to June 2015

Medical School: 049-010 Joan C Edwards Sch Med at Marshall Univ







NATIONAL BOARD OF MEDICAL EXAMINERS®

Performance of Examinees Taking USMLE® Step 2 Clinical Knowledge (CK) for the First Time in the Academic Year July 2015 to June 2016

Medical School: 049-010 Joan C Edwards Sch Med at Marshall Univ

Applying Foundational Science Concepts

Patient Care: Diagnosis

Health Maint, Disease Prevention, & Surveillance

Patient Care: Management

Immune System

Blood & Lymphoreticular System

Behavioral Health

Nervous System and Special Senses

Musculoskeletal Syst/Skin & Subcutaneous Tissue

Cardiovascular System
Respiratory System
Gastrointestinal System

Renal & Urinary System & Male Reproductive

Pregnancy, Childbirth & the Puerperium

Female Reproductive & Breast

Endocrine System

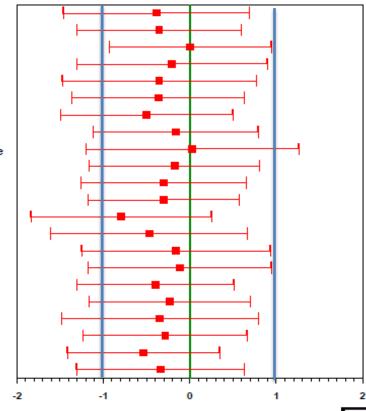
Multisystem Processes & Disorders

Medicine

Obstetrics & Gynecology

Pediatrics Psychiatry

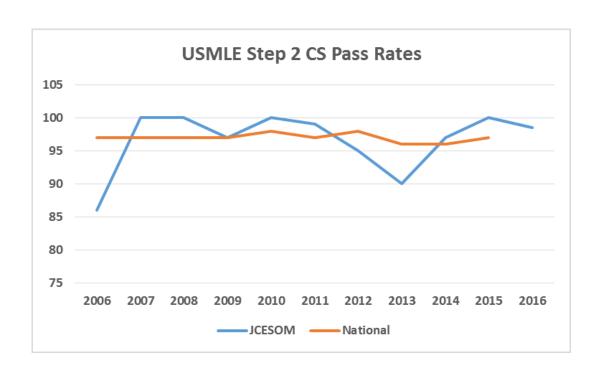
Surgery







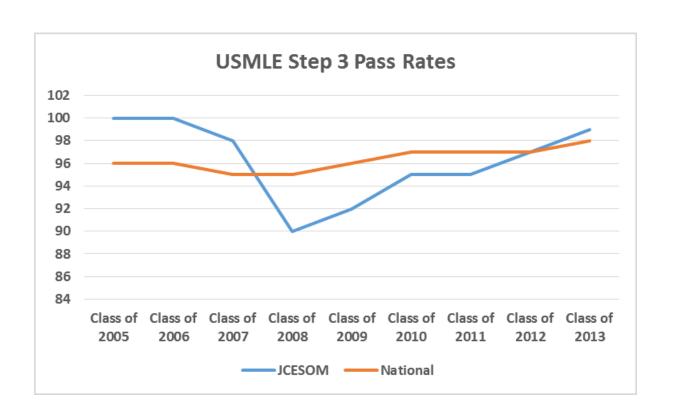
USMLE Step 2 CS Pass Rate







USMLE Step 3 Pass Rates







Program Director Surveys

MARSHALL UNIVERSITY SCHOOL OF MEDICINE CLASS OF 2013 PG 1 Residency Director Survey

Name of Resident Residency Program	Status of Resident:	Trans. to Another
Program, If so, Where? Dismissed_ REMEDIATION	TRANSFER To Specialized Residency Remediating Part/All of PG 1	REASON FOR

AREAS OF EVALUATION	UNSATISFACTORY	SATISFACTORY	GOOD	VERY GOOD	OUTSTANDING	NOT EVALUATED
PROFESSIONALISM	 Does not accept responsibility; inappropriate or immature behavior 	0	 Exhibits good judgment in personal and professional situations 	0	 Exceptional professional conduct; demonstrates maturity, excellent judgment and integrity 	0
RELATIONSHIP WITH PATIENTS	 Insensitive and avoids personal contact with patients 	0	 Relates appropriately to patients and demonstrates undentanding of their personal and emotional needs 	0	 Exhibits exceptional warmth and empathy with patients; respects patients' cultural and religious betiefs; effectively explains medical care 	0
RELATIONSHIP WITH OTHERS	 Serious problems with interactions with others 	0	☐ Works cooperatively with others	0	 A highly valued team member who promotes cooperation among others 	0
FUND OF KNOWLEDGE	☐ Insufficient knowledge base	0	 Average knowledge base; usually applied appropriately 	0	 Extensive knowledge base; excellent ability to integrate factual knowledge 	0
DATA GATHERING ABILITY	 Incomplete or inaccurate histories and physicals; essential data frequently not obtained 	O	 Careful, reasonable organized history with most significant issues covered; generally complete physical with most pathology detected 	0	 Comprehensive, well organized histories with pertinent negatives; thorough and accurate physical exem 	0
DIAGNOSTIC PROBLEM SOLVING ABILITY	 Prequently has difficulty integrating data from history and physical when developing differential; poor clinical judgment in selection of treatment plan 	0	□ Usually able to analyze data from history and physical to obtain concise problem list; ability appropriate for level of training to plan patient management; sound judgment in selection of lab tests, consults and therapeutic program.	0	☐ Consistently synthesizes data from history and physical to arrive at accurate, comprehensive differential; unusual ablitties in patient management with excellent judgment in selection of laboratory tests, consults and therapeutic program	o o
PROCEDURAL SKILLS	 Has difficulty performing the basic techniques and has difficulty with timing or organization 	0	 Can adequately perform the basic techniques in an organized and coordinated manner 	0	☐ Highly skilled with use of proper technique, organizes equipment prior to procedure	0
LEARNING ATTITUDE	 Lacks motivation, shows little evidence of independent work 	0	 Conscientious worker who is receptive to teaching and feedback 	0	 Exceptionally hard worker who maximizes learning opportunities 	0
COMMUNICATION SKILLS	 Oral presentations are unorganized and does not accurately present patient information; write-ups and progress notes are unorganized or inadequate 	0	 Oral presentations present patient information in an organized and accurate manner; write- ups and progress notes are clear and well organized 	0	Oral presentations demonstrate total knowledge of patient with outstanding ability to communicate; write-ups are outstanding; progress notes are thorough and well-organized	o o

OVERALL EVALUATION: UNSATISFACTORY SATISFACTORY GOOD VERY GOOD OUTSTANDING (please circle one)

(Over, please)





Program Director Survey

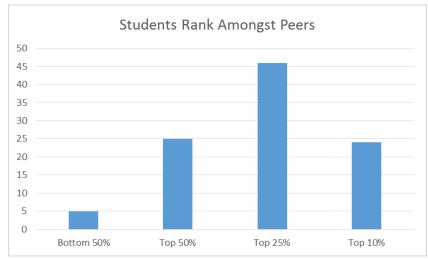
Resident's standing in relation to o (please underline one)	thers at same program level :	Bottom 50%	Top 50%	Top 25%	TOP 10%				
PLEASE COMMENT ON THE RESIDEN	T'S PERFORMANCE NOTING STREE	NGTHS AND WEAKNESS	SES:						
Has the resident required any disci	Has the resident required any disciplinary action? If so, please describe.								
Mehiar El-Hamdani, MD	Marshall University Scho	of of Medicine Program; Interne	al Medicine; WV						
Program Director's Name	Resi	dency Program Name		Signa	ture and Date				





PD Survey Results Class of 2015





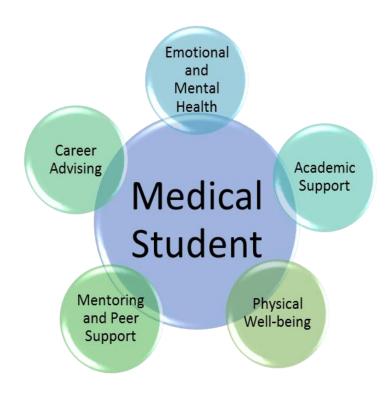




Student Affairs











- Careers in Medicine Curriculum
- Inter-Professional Education
- College of Health Professions Senate
- Internal Survey currently underway

- Study Space:
 - https://jcesom.marshall.edu/students/faciliti
 es-study-space-and-building-access/

MarshallHealth



Match Day – March 17th

Career	Number of Applicants
Anesthesia	1
Child Neurology	1
Dermatology	2
Emergency Medicine	5
Family Medicine	16
Internal Medicine	23 (includes prelim applications)
Internal Medicine/Pediatrics	4
Neurology	4
Obstetrics and Gynecology	5
Ophthalmology	1
Orthopaedic Surgery	2
Pathology	1
Pediatrics	9
Psychiatry	8
Radiology-Diagnostics	7
General Surgery	7 (includes prelim applications)
Military Match	2 (EM and Surgery) (included in the totals above)





Clinical Skills Lab

Maintain and train roughly 45 active standardized patients

ICS	600
ACS	750
3rd Year	450
Final CCE's	450
Tatal	2250
Total	2250





Office of Medical Education

- Realignment of the Curriculum Committee
- Predictive Algorithms
- Curriculum undergoing a Continuous Review Process with review of 2015-2016 now complete





Office of Medical Education

Progress Report to LCME by August 2017

 Ongoing LCME Accreditation next visit is 2018-2019

5 Peer-Reviewed Publications





Office of Academic Support

- August 2016 hired a Learning Specialist
 - Tutor Training
 - Time Management
 - Test Taking Skills
 - Study Strategies
 - https://jcesom.marshall.edu/students/studentaffairs/office-of-academic-support/

MarshallHealth



Questions?



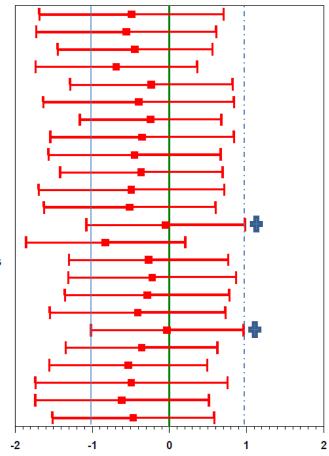


NATIONAL BOARD OF MEDICAL EXAMINERS®

Interim Report on Performance of Examinees Taking USMLE Step 1 for the First Time in 2014 with Scores Reported Through September 24

Medical School: 049-010 Joan C Edwards Sch Med at Marshall Univ

- 1-Behavioral Sciences
- 1-Biochemistry
- 1-Biostatistics
- 1-Genetics
- 1-Gross Anatomy & Embryology
- 1-Histology & Cell Biology
- 1-Microbiology & Immunology
- 1-Nutrition
- 1-Pathology
- 1-Pharmacology
- 1-Physiology
- 2-General Principles of Foundational Science
- 2-Immune System
- 2-Blood & Lymphoreticular System
- 2-Behavioral Health & Nervous Systems/Special Senses
- 2-Musculoskeletal, Skin, & Subcutaneous Tissue
- 2-Cardiovascular System
- 2-Respiratory System
- 2-Gastrointestinal System
- 2-Renal/Urinary System
- 2-Reproductive System
- 2-Endocrine System
- 2-Multisystem Processes & Disorders
- 2-Biostatistics & Epidemiology/Population Health







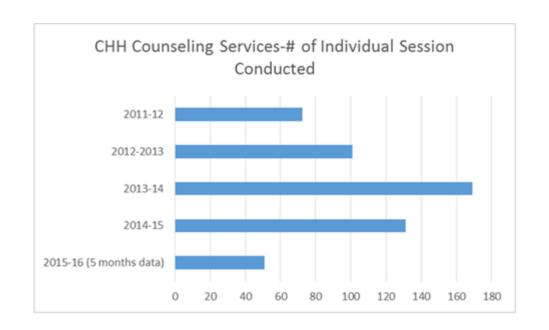
Summary of STEP 1

- Consistent with National Averages in:
 - Immunology/Microbiology
 - Histology and Gross Anatomy
 - GI
 - Respiratory
 - Skin/MSK
- Need to Improve:
 - Biostats./Epidemiology
 - Nutrition
 - Blood/Lymphoreticular
 - Behavioral Sciences (improved at level of Clerkship)
- Currently expanding coverage in Biostats., Safety Science
- Continuous quality improvement processes





Emotional Health and Well-being







Academic Affairs

Certifying current 4th years for Graduation

 Small Group meetings with current 3rd years regarding 4th year scheduling

 Processed ~60 applications for visiting students



