

# AOBIM REPORT

Gary L. Slick, D.O.

**AMERICAN COLLEGE OF OSTEOPATHIC INTERNISTS  
RESIDENT IN-SERVICE EXAMINATION**

	<u>2004</u>	<u>2005</u>	<u>2006</u>	<u>2007</u>	<u>2008</u>	<u>2009</u>
Total Items	200	200	200	200	200	200
Items Changed from Previous Year	85+	41	24	68	31	29
Person Sep Rel.	0.94	0.94	0.94	0.93	0.93	0.93
Total Candidates	487	514	532	595	684	787

**NUMBERS OF CANDIDATES  
AMERICAN COLLEGE OF OSTEOPATHIC INTERNISTS  
RESIDENT IN-SERVICE EXAMINATION**

	<u>2004</u>	<u>2005</u>	<u>2006</u>	<u>2007</u>	<u>2008</u>	<u>2009</u>
All Candidates	487	514	532	595	684	787
All Interns	160	177	172	209	271	289
Traditional Interns	8	14	9	13	17	20
Medicine Interns	152	163	163	196	224	269
1st Year Resident	172	182	182	206	242	255
2nd Year Resident	150	146	166	168	199	228
3rd Year Resident	5	9	2	11	2	14

AMERICAN COLLEGE OF OSTEOPATHIC INTERNISTS

RESIDENT IN-SERVICE EXAMINATION

Comparison of 2007-2009 Mean Logit and Raw Scores

Corrected for Change in Examination Difficulty

	<u>2007</u>			<u>2008</u>			<u>2009</u>		
	<u>N</u>	<u>RAW</u>	<u>LOGIT</u>	<u>N</u>	<u>RAW</u>	<u>LOGIT</u>	<u>N</u>	<u>RAW</u>	<u>LOGIT</u>
All Candidates	595	108	0.19	684	111	0.31	787	120	0.52
All Interns	209	97	-0.1	241	100	-0.01	289	108	0.21
Traditional Interns	13	89	-0.32	17	96	-0.11	20	106	0.15
Medicine Interns	196	98	-0.09	224	101	0	269	109	0.22
1 <sup>st</sup> Year Residents	206	109	0.22	242	113	0.33	255	120	0.52
2 <sup>nd</sup> Year Residents	168	121	0.53	199	122	0.67	228	135	0.91
3 <sup>rd</sup> Year Residents	11	110	0.24	2	149	1.36	14	120	0.53

Number of Examination Candidates  
Internal Medicine Certifying Examination  
2006 - 08

	2006	2007	2008
TOTAL	199	196	226
FIRST-TIMER	153	151	176
RETAKES	31	25	26
RE-ESTABLISH	15	20	24
TRADITIONAL TRACK	17	11	13
MEDICINE TRACK	110	121	127
ALLOPATHIC	16	6	22
SUBSPECIALTY	1	1	0
IM/ER	10	12	14
IM/PEDS	0	0	0
REFERENCE	47	39	35

AMERICAN OSTEOPATHIC BOARD OF INTERNAL MEDICINE  
STATISTICAL SUMMARY DATA  
 2006 - 08  
MEAN MEASURE (EQUATED)

	<u>2006</u>	<u>2007</u>	<u>2008</u>
OVERALL	0.39	0.39	0.46
FIRST-TIME CANDIDATES	0.58	0.57	0.67
FIRST TIME – MED TRACK	0.58	0.61	0.81
FIRST TIME – TRAD TRACK	0.40	0.39	0.83
FIRST TIME – OTHER	0.76	0.17	0.67
REFERENCE GROUP	0.52	0.55	0.66
REPEATERS	-0.23	-0.07	-0.18
RE-ESTABLISH	-0.30	-0.39	-0.44

REFERENCE GROUP

	<u>2006</u>	<u>2007</u>	<u>2008</u>
N	47	39	37
RANGE	1.32-(-0.47)	1.37-(-0.42)	1.58-(-0.52)
MEAN	0.52	0.55	0.61

	<u>2006</u>	<u>2007</u>	<u>2008</u>
PASS-RATE FIRST TIME	93%	86%	88%
FIRST TIME – MED TRACK	93%	86%	86%
FIRST TIME – TRAD TRACK	88%	91%	85%
FIRST TIME – OTHER	100%	75%	100%
PASS-RATE REPEATERS	32%	28%	35%
PASS-RATE REFERENCE GROUP	96%	79%	86%
PASS-RATE OVERALL	78%	71%	74%
RE-ESTABLISH	27%	10%	17%

American Osteopathic Board of Internal Medicine  
 Cumulative Pass Rates  
 Internal Medicine Certifying Examination

	<u>1986</u>	<u>1987</u>	<u>1988</u>	<u>1989</u>	<u>1990</u>	<u>1991</u>	<u>1992</u>	<u>1993</u>	<u>1994</u>	<u>1995</u>	<u>1996</u>	<u>1997</u>
Total First Timers	60	76	84	81	80	71	92	110	114	95	99	91
Pass	57	70	77	76	80	67	89	104	106	93	90	86
% Pass	95	92	94	94	100	94	97	95	93	98	91	95

	<u>1998</u>	<u>1999</u>	<u>2000</u>	<u>2001</u>	<u>2002</u>	<u>2003</u>	<u>2004</u>	<u>2005</u>	<u>2006</u>	<u>2007</u>	<u>2008</u>
Total First Timers	127	129	140	136	144	145	145	137	153	151	176
Pass	114	119	133	123	136	138	143	132	144	135	154
% Pass	90	92	95	90	94	95	99	96	94	89	88

	<u>1986-90</u>	<u>1991-95</u>	<u>1996-00</u>	<u>2001-05</u>	<u>2006-08</u>
Total First Timers	381	482	586	707	480
Pass	359	459	542	672	433
% Pass	94.2	95.2	92.5	95.0	90.2

PASS RATE  
FIRST-TIME TAKERS  
SUBSPECIALTY CERTIFYING EXAMINATIONS 1984-2008

	<u>1984-93</u>	<u>1994-98</u>	<u>1999-2003</u>	<u>2004</u>	<u>2005</u>	<u>2006</u>	<u>2007</u>	<u>2008</u>	<u>1984-2008</u>	<u>% PASS</u>
Allergy	1/1	3/3	2/2						6/6	100
Cardiology	87/122	47/82	38/54	8/10	12/13	14/17	24/26	25/29	255/353	72
Endocrinology	9/11	6/9	3/3	1/1			2/2	3/3	24/29	83
Gastroenterology	47/62	45/63	15/20	6/7	8/8	2/3	7/7	8/9	138/179	77
Infectious Disease	13/16	12/17	9/12	2/3	1/3	3/3	2/2	3/3	45/59	76
Pulmonary Diseases	54/79	25/32	24/27	7/7	4/5	5/6	6/6	3/3	128/165	78
Nephrology	23/29	12/20	22/28	7/7	2/2	5/6	5/6	9/10	85/108	79
Oncology	27/42	8/14	10/15	5/5	4/4	5/6	1/1	3/3	63/90	70
Rheumatology	15/18	9/11	8/11		2/2	1/1	2/2	3/4	40/49	82
TOTAL	290/395	175/260	132/177	36/42	35/40	36/43	52/55	57/64	813/1076	
%PASS	73	67	75	86	88	84	95	89	76	76

Recertification Examination Results  
2002-2008

	2002-05		2006		2007		2008		% Pass Total	<u>n</u>
	<u>n</u>	<u>PASS</u>	<u>n</u>	<u>PASS</u>	<u>n</u>	<u>PASS</u>	<u>n</u>	<u>PASS</u>		
Internal Medicine	234	229	84	84	85	85	89	88	99	492
Allergy	1	1	---	---	1	1	---	---	100	2
Cardiology	44	43	13	11	18	17	9	8	94	84
Critical Care	30	28	10	10	9	8	3	2	92	52
Endocrinology	7	7	1	1	---	---	1	1	100	9
Electrophysiology	3	3	3	3	3	3	1	1	100	10
Gastroenterology	37	36	8	6	9	9	11	11	95	65
Geriatric Medicine	19	19	8	8	3	3	1	1	100	31
Hematology	4	4	2	2	1	0	3	1	70	10
Infectious Disease	6	6	2	2	2	1	2	2	92	12
Nephrology	6	6	5	4	3	3	3	3	94	17
Oncology	13	13	1	0	1	0	2	2	88	17
Pulmonary Diseases	24	23	9	9	7	7	3	3	98	43
Rheumatology	11	9	2	2	---	---	2	2	87	15
Total	410	398	148	142	142	137	130	125	96.6	830

# CAQ EXAMINATIONS REPORT 1999-2008

## INTERVENTIONAL CARDIOLOGY

	<u>2002</u>	<u>2003</u>	<u>2005</u>	<u>2006</u>	<u>2008</u>
Number of Candidates	20	14	35	3	18
Pass	16	14	35	3	17
Items	200	200	200	200	200
Mean Score	144	155	152	148	154
Range	129-159	137-172	118-173	134-162	128-174
MPS	136	138	118	118	135/135
New/Revised Items		37/59	33/92	0	54/51

## SPORTS MEDICINE

	<u>1999</u>	<u>2000</u>	<u>2001</u>	<u>2003</u>	<u>2005</u>	<u>2006</u>	<u>2007</u>	<u>2008</u>
Number of candidates	12	5	26	21	1	1	3	1
Pass	12 (2/2)	4/5 (0/0)	21/26 (0/0)	14/21 (0/1)	18/24 (0/1)	11/17 (1/1)	6/9 (2/3)	1/1
Items	186	156	203	194	183	179	194	
Mean score	121	92	129	118	113	108	128	
MPS	107	88	120	112	108	103	119	

( ) = AOBIM candidates

## CRITICAL CARE MEDICINE

	<u>1991</u>	<u>1993</u>	<u>1995</u>	<u>1996</u>	<u>1997</u>	
Number of candidates	40	24	33	22	5	
Pass	27/40(68%)	24/24	24/33(73%)	18/22(82%)	5/5	
Items	200	200	200	200	200	
Mean score	106		118	116	118	
MPS	100	116	110	106	106	
Range	89-139	116-156	93-152	81-151	109-128	
Pass rate general internists	4/6	6/6	4/7	4/5(2/2)†	-----	
Pass rate subspecialists	22/33	14/14	15/20	13/16(10/12)†	1/1	
Pass rate Critical Care trainees	1/1	4/4	5/6	1/1	4/4	
	<u>1998</u>	<u>2000</u>	<u>2002</u>	<u>2004</u>	<u>2006</u>	<u>2008</u>
Number of candidates	4	9	7	13	14	20
Pass	3/4	6/9	5/7	11/13	10/14	14/20
Items	200	200	200	200	200	200
Mean score	115	109	105	115	117	121
MPS	106	106	107	107	113	113
Range	95-128	93-136	80-114	92-135	96-129	104-139
Items revised/replaced	-----	-----	-----	-----	22/26	-----
Pass rate subspecialists	-----	-----	-----	-----	-----	-----
Pass rate Critical Care trainees	3/4	6/9(6/8)†	5/7(3/5)†	11/13(10/11)†	(10/14)†	(12/16)†

† = First timers

## DIF STUDY COMPARING THE CANDIDATE PERFORMANCE ON THE 2006 AND 2008 AOBIM INTERNAL MEDICINE CERTIFYING EXAMINATIONS

- DIF(Differential Item Functioning) analysis compares the interaction between individual items and types of persons on an examination or also termed item bias. DIF indicates which items have different difficulties after adjusting for the overall differences in ability between two groups.
- Hypothesis: Switching from a paper and pencil to computer-based exam will result in no significant difference in candidate performance even though the items were grouped into subject content areas on one exam and scrambled on the other.

Results: 192 common items between the two exams  
550 total items over two days on 2006 exam  
320 total items over one day on 2008 exam

199 persons in 2006  
226 persons in 2008

20 of the 192 items were harder in 2006  
16 of the 192 items were harder in 2008

Mean raw score for 2006 = 117.8/192  
Mean raw score for 2008 = 117.4/192

P value = >0.854

Conclusion: Changing the format of the exam results in no significant difference in the performance of candidates on the internal medicine certifying examination

## 2009 INTERNAL MEDICINE CERTIFYING EXAMINATION

DATE: September 17, 2009

LOCATION: 200 sites nationwide

FIRST DATE ELIGIBLE TO REGISTER WITH COMPUTER COMPANY: June 22

REGISTRATION IDENTIFYING NUMBER AND LETTER OF ACCEPTANCE WILL  
BE MAILED THE FIRST WEEK OF JUNE

REGISTER BY PHONE OR VIA WEBSITE

TESTING CENTER LOCATIONS: [www.pearsonvue.com/AOBIM](http://www.pearsonvue.com/AOBIM)

EXAM PRACTICE TUTORIAL: [www.measurementresearch.com](http://www.measurementresearch.com)