

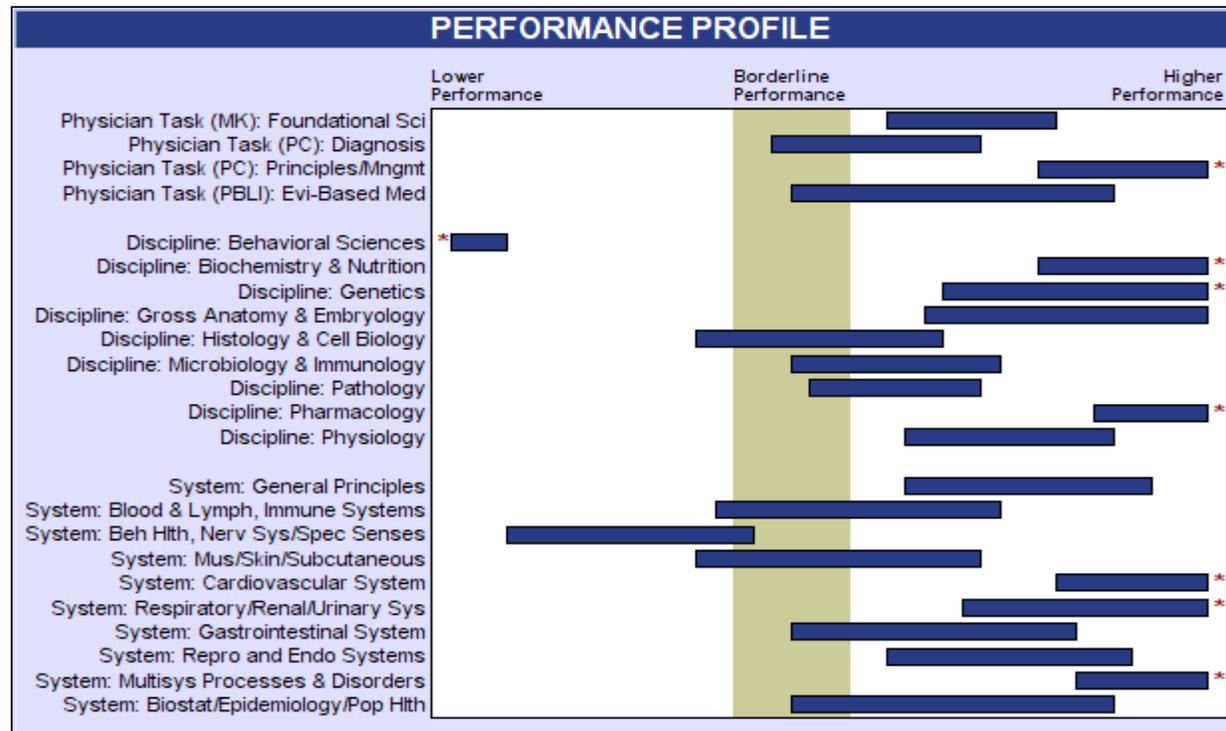
National Board of Medical Examiners®

NBME® Comprehensive Basic Science Self-Assessment (CBSSA) Performance Profile

Name:

Test Date:

Assessment Score: 450



The material presented in this self-assessment is provided by the National Board of Medical Examiners (NBME®) for educational purposes only. The CBSSA is not intended to predict a participant's performance on USMLE®. Rather, the CBSSA is designed to serve as a tool to determine areas of relative strength and weakness in the basic sciences.

The score you received, indicated above in the top right hand corner, ranges from 10 to 800. It is scaled to have a mean of 500 and a standard deviation of 100 in a reference group of USMLE Step 1 first-takers from accredited U.S. medical schools.

The Performance Profile is provided to aid in self-assessment. The shaded region defines a borderline level of performance for each content area. Performance bands indicate areas of relative strength and weakness. Some bands are wider than others. The width of a performance band reflects the precision of measurement: narrower bands indicate greater precision. An asterisk indicates that your performance band extends beyond the displayed portion.

of the scale. Small differences in the location of bands should not be over-interpreted. If two bands overlap, performance in the associated areas should be interpreted as similar. Because CBSSA is designed to be integrative, many items contribute to more than one content area. Thus, caution should be used when interpreting differences in performance across content areas. While not all content areas are included in every form, overall content coverage is comparable in the various forms of CBSSA.

Additional information concerning the topics covered in each content area can be found in the *USMLE Step 1 Content Description and Sample Test Materials* (www.usmle.org).

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Score Interpretation Guide
NBME® Comprehensive Basic Science Self-Assessment (CBSSA)

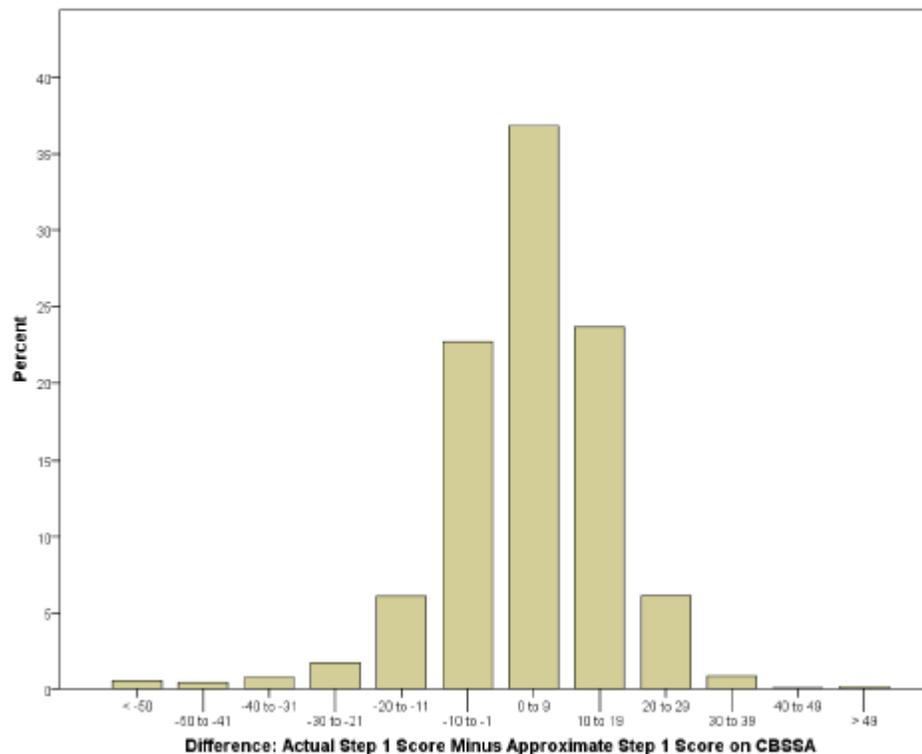
This guide will help you interpret the Assessment Score you received on your CBSSA Performance Profile.

How to read your scores:

- In the table on page 3 locate your CBSSA score and find the approximate corresponding USMLE® Step 1 score in the adjacent column. For example, if your CBSSA score is 390, it approximates a Step 1 three-digit score of 205.
- CBSSA scores are scaled to have a mean of 500 and a standard deviation of 100. USMLE Step 1 scores are reported on a three-digit scale with a mean ranging from 228 to 229 and a standard deviation of approximately 20. Both means are based on the performance of USMLE Step 1 first-time examinees from accredited US medical schools.

What you should know:

- The approximate corresponding USMLE Step 1 score is based on your performance on CBSSA and is not an exact prediction of what you will score on your USMLE exam.
- **Your actual USMLE Step 1 score is likely to fall within the range provided next.** This range represents domestic and international students who take the self-assessment one week prior to the USMLE.
- The graph that follows shows the distribution of the difference between actual USMLE Step 1 scores and approximate Step 1 scores for those taking the CBSSA (Step 1 score minus CBSSA score). Each bar represents the percentage of students with a given difference between their actual Step 1 score and their anticipated Step 1 score based on the CBSSA. Positive differences mean that the students scored higher on Step 1 than on CBSSA and negative differences mean that the students scored higher on CBSSA than on Step 1.



How to estimate future USMLE test performance:

Two-thirds of the time your USMLE Step 1 score will fall within 13 points of the approximate corresponding Step 1 score shown below. You can calculate your range by adding 13 points to your Approximate Step 1 Three-Digit score shown and also subtracting 13 points from your Approximate Step 1 Three-Digit score. For example, if your approximate Step 1 score based on CBSSA is 220, we anticipate that your actual Step 1 score will fall between 207 and 233 two-thirds of the time. This range is based on students who took CBSSA within one week before taking Step 1.

- Your self-assessment exam is intended to indicate your readiness to take the USMLE and/or to help you become more familiar with its content.
- The CBSSA is designed to serve as a tool to determine areas of relative strength and weaknesses in the basic sciences.
- Please keep in mind additional factors that occur between the date of this result and your actual USMLE exam could shift your score up or down versus your NBME self-assessment score.

Multiple exams:

If you've taken multiple self-assessment exams to prepare for the USMLE, there are several things to remember:

- If you have taken multiple CBSSAs shortly before you are scheduled to take USMLE Step 1, your average score across the tests may provide the most accurate measure of your performance. You should use this average score to calculate your estimated Step 1 score range. NBME self-assessments vary in difficulty and most are generally easier than the USMLE Step 1 exams. Therefore, the number of questions that you need to answer correctly varies according to the total level of difficulty of the exam.
 - For this reason, the number of incorrect answers cannot be compared to your number incorrect on a different NBME self-assessment.
 - You also cannot use the number of incorrect answers on the self-assessment to predict your performance on USMLE Step 1.

- The self-assessment score that is provided on this report does adjust for differences in difficulty and can be compared across exams and used to estimate your approximate USMLE Step 1 score.
- Remember that this approximate corresponding USMLE score is based on what you knew in that moment. Different testing conditions (including the high-stakes nature of Step 1) as well as additional learning or forgetting are likely to affect future test results.
- NBME does not guarantee that any individual performance on NBME self-assessments will predict performance on any USMLE exam. We caution participants against making any predictive inferences.

On the Performance Profile: MK—Medical Knowledge; PC—Patient Care; PBLI—Practice-based Learning and Improvement.

CBSSA Score	Approximate Step 1 Three-Digit Score	CBSSA Score	Approximate Step 1 Three-Digit Score
800	290	400	207
790	288	390	205
780	286	380	203
770	284	370	200
760	282	360	198
750	280	350	196
740	277	340	194
730	275	330	192
720	273	320	190
710	271	310	188
700	269	300	186
690	267	290	184
680	265	280	182
670	263	270	180
660	261	260	178
650	259	250	175
640	257	240	173
630	255	230	171
620	252	220	169
610	250	210	167
600	248	200	165
590	246	190	163
580	244	180	161
570	242	170	159
560	240	160	157
550	238	150	155
540	236	140	153
530	234	130	150
520	232	120	148
510	230	110	146
500	228	100	144
490	225	90	142
480	223	80	140
470	221	70	138
460	219	60	136
450	217	50	134

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440	215	40	132
430	213	30	130
420	211	20	128
410	209	10	< 128

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June 2018

National Board of Medical Examiners®

NBME® Comprehensive Basic Science Self-Assessment (CBSSA)

Name:

Test Date:

Performance Profile

Click on the category below to view your correctly and incorrectly answered questions.

Detailed Analysis by Content
Physician Task (MK): Applying Foundational Science Concepts
Physician Task (PC): Diagnosis
Physician Task (PC): Principles of Management
Physician Task (PBLI): Evidence-based Medicine
Discipline: Behavioral Sciences
Discipline: Biochemistry & Nutrition
Discipline: Genetics
Discipline: Gross Anatomy & Embryology
Discipline: Histology & Cell Biology
Discipline: Microbiology & Immunology
Discipline: Pathology
Discipline: Pharmacology
Discipline: Physiology
System: General Principles

<u>System: Blood & Lymphoreticular and Immune Systems</u>
<u>System: Behavioral Health & Nervous Systems/Special Senses</u>
<u>System: Musculoskeletal, Skin, & Subcutaneous Tissue</u>
<u>System: Cardiovascular System</u>
<u>System: Respiratory and Renal/Urinary Systems</u>
<u>System: Gastrointestinal System</u>
<u>System: Reproductive and Endocrine Systems</u>
<u>System: Multisystem Processes & Disorders</u>
<u>System: Biostatistics & Epidemiology/Population Health</u>

*Because CBSSA is designed to be integrative, many items contribute to more than one score category.

- ✓ 23. A 47-year-old man comes to the emergency department 2 hours after the onset of a pins and needles sensation and weakness in his right leg and a 1-hour history of confusion. Earlier today, he had been scuba diving for 6 hours in deep water driving pilings for a bridge. He has a 3-year history of hypertension treated with a daily calcium-channel blocking agent. He is somnolent. His pulse is 110/min, respirations are 20/min, and blood pressure is 160/90 mm Hg. Diffuse crackles are heard on auscultation. Cardiac examination shows an S₄ gallop. A grade 2/6, systolic ejection murmur is heard over the left sternal border. Muscle strength is 4/5 in the right lower extremity. Neurologic examination shows no other focal findings. Which of the following is the most likely diagnosis?
- A) Air embolism
 - B) Carotid artery dissection
 - C) Endocarditis
 - D) Hypertensive crisis
 - E) Pulmonary embolism
 - F) Subarachnoid hemorrhage



11. An 8-month-old girl is brought to the physician by her mother because of a 3-week history of poor feeding, chronic diarrhea, and pale, foul-smelling stools. The mother says that the symptoms began with colicky abdominal pain following the introduction of solid food to the infant's diet. There is a family history of gluten sensitivity. She is at the 60th percentile for length and 25th percentile for weight. Physical examination shows no other abnormalities. Dysfunction of which of the following cells is the most likely cause of this patient's symptoms?

- A) Enterocytes
- B) Goblet cells
- C) Paneth cells
- D) Parietal cells
- E) Serosal cells

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NBME® Comprehensive Basic Science Self-Assessment (CBSSA)

Longitudinal Performance Profile History of Performance Across Multiple Completed Tests

Name:

Report Date:

Take	Test Date	Timing	Assessment Score
1	2/28/2018	Standard	400
2	7/31/2018	Standard	450

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The graphical performance profiles are provided to aid in self-assessment and are a compilation of profiles for up to the six most recently completed assessments started on or after November 21, 2016*. The performance profile graphs provide an indicator of your performance across multiple completed assessments for each content area. The shaded region defines a borderline level of performance for each content area. Performance bands indicate areas of relative strength and weakness. Some bands are wider than others. The width of a performance band reflects the precision of measurement: narrower bands indicate greater precision. A row of asterisks indicate that your performance band extends beyond the displayed portion of the scale. Small differences in the location of bands should not be over-interpreted. If two bands overlap, performance should be interpreted as similar. Because the CBSSA is designed to be integrative, many items contribute to more than one content area. Thus, caution should be used when interpreting differences in performance across content areas. While not all content areas are included in every form, overall content coverage is comparable in the various forms of CBSSA.

Additional information concerning the topics covered in each content area can be found in the *Step 1 Content Description and Sample Test Materials* (www.usmle.org).

*CBSSA exams started on or after November 21, 2016 cannot be longitudinally compared against those started before November 21, 2016.

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NBME® Comprehensive Basic Science Self-Assessment (CBSSA)

Longitudinal Performance Profile History of Performance Profiles Across Multiple Completed Tests

Name:

Report Date:

Performance Profile Bands	
L	Lower Performance
B (shaded area)	Borderline Performance
H	Higher Performance

