

SUBJECT EXAMINATION PROGRAM  
COMPREHENSIVE BASIC SCIENCE EXAMINATION (CBSE)  
ITEM ANALYSIS REPORT



**000000 - Generic Medical School** Reporting  
Group: Medical Students  
Test Purpose: During Instruction/Training  
N Scored Items: 190

Test Date(s): **mm/dd/yyyy**  
Order ID: **A00000**  
**N Examinees: 100**

NBME® Subject Examinations provide institutions with one tool for measuring examinees' understanding of the basic biomedical and clinical sciences. While responsibility for use of Subject Examinations lies with the institution, this report provides item analysis results to assist in carrying out that responsibility.

Using item-level results:

- An item-by-item summary of performance is provided to help identify specific areas of strength and weakness for your students, and to help determine the extent to which they have learned the content of individual items.
- Content area classifications may include a Physician Task/Competency that appears at the beginning of the item description, including:
  - o FOUNDATION: Clinically relevant basic science principles and concepts
  - o DIAGNOSIS: Knowledge pertaining to history, exam, diagnostic studies, and patient outcomes
  - o PREVENTION: Health maintenance, disease prevention, and surveillance for disease recurrence
  - o MANAGEMENT: Medical or surgical treatment strategies, including pharmacotherapy
- Keep in mind that lower achievement may be due to lack of understanding or lack of emphasis in course coverage.

Additional resources:

- More information about all Subject Examinations, including content outlines and answers to frequently asked questions, is available at <https://www.nbme.org/assessment-products/assess-learn>.

The Item Analysis Report is provided solely for faculty use to better understand examinee performance. The written authorization of NBME must be obtained prior to any other use of the information contained in this report.

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The following pages provide the United States Medical Licensing Examination® (USMLE®) Step 1 content description for each scored item on this Subject Examination, along with the percentage of examinees from your institution (School) and a projected percentage of Step 1 examinees nationally (National) who answered each item correctly. These percentages represent the difficulty of the items for the examinees at your institution and for the national comparison group. In addition, differences between the percentages for your examinees and for the national comparison group are shown in the last column. Items are sorted alphabetically by content description and in ascending order by item difficulty (% Answering Correctly) for your institution.

Content Description	% Answering Correctly		Difference (Schl-Natl)
	School	National	
1) Diagnosis: Behavioral health: adolescent adherence	78%	69%	9%
2) Diagnosis: Behavioral health: mood disorders	51%	66%	-15%
3) Diagnosis: Behavioral health: mood disorders	77%	58%	19%
4) Diagnosis: Behavioral health: psychotic disorders	59%	48%	11%
5) Diagnosis: Behavioral health: somatoform disorders	78%	85%	-7%
6) Diagnosis: Behavioral health: substance abuse disorders	80%	91%	-11%
7) Diagnosis: Blood and lymphoreticular system: viral infections	43%	54%	-11%
8) Diagnosis: Cardiovascular system: diseases of the myocardium	61%	76%	-15%
9) Diagnosis: Cardiovascular system: diseases of the pericardium	71%	62%	9%
10) Diagnosis: Cardiovascular system: dysrhythmias	45%	73%	-28%
11) Diagnosis: Cardiovascular system: heart failure	60%	72%	-12%
12) Diagnosis: Cardiovascular system: hypertension	59%	87%	-28%
13) Diagnosis: Cardiovascular system: traumatic and mechanical disorders	25%	63%	-38%
14) Diagnosis: Endocrine system: diabetes mellitus	59%	87%	-28%
15) Diagnosis: Endocrine system: pituitary disorders	76%	89%	-13%
16) Diagnosis: Female reproductive and breast: malignant and precancerous neoplasms	73%	83%	-10%
17) Diagnosis: Gastrointestinal system: disorders of the esophagus	58%	70%	-12%
18) Diagnosis: Gastrointestinal system: traumatic and mechanical disorders	52%	80%	-28%
19) Diagnosis: General Principles: adolescence: normal physical changes	89%	88%	1%
20) Diagnosis: General Principles: childhood: developmental stages	62%	77%	-15%
21) Diagnosis: General Principles: childhood: normal physical changes	53%	54%	-1%

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	School	National	
22) Diagnosis: General Principles: oncogenesis (bacteria)	53%	67%	-14%
23) Diagnosis: Immune System: deficiency primarily of humoral immunity	49%	60%	-11%
24) Diagnosis: Multisystem processes and disorders: immunologic and inflammatory disorders	43%	91%	-48%
25) Diagnosis: Multisystem processes and disorders: intimate partner abuse	85%	73%	12%
26) Diagnosis: Multisystem processes and disorders: parasitic infections	45%	65%	-20%
27) Diagnosis: Multisystem processes and disorders: viral infections	77%	74%	3%
28) Diagnosis: Musculoskeletal system: degenerative/metabolic disorders: bone/cartilage	61%	82%	-21%
29) Diagnosis: Musculoskeletal system: inflammatory disorders	40%	44%	-4%
30) Diagnosis: Nervous system and special senses: cerebrovascular disease	91%	89%	2%
31) Diagnosis: Nervous system and special senses: disorders of spine, spinal cord, spinal nerve roots	64%	84%	-20%
32) Diagnosis: Nervous system and special senses: peripheral nerves	46%	60%	-14%
33) Diagnosis: Pregnancy, childbirth, and the puerperium: obstetric complications	57%	71%	-14%
34) Diagnosis: Pregnancy, childbirth, and the puerperium: puerperium, including complications	25%	46%	-21%
35) Diagnosis: Renal and urinary system: infectious disorders of the lower tract	60%	86%	-26%
36) Diagnosis: Renal and urinary system: metabolic and regulatory disorders	26%	62%	-36%
37) Diagnosis: Respiratory system: disorders of the pleura, mediastinum, chest wall	40%	80%	-40%
38) Diagnosis: Respiratory system: infectious/immune/inflammatory disorders: upper airways	72%	90%	-18%
39) Diagnosis: Respiratory system: malignant neoplasms of the lower airways and pleura	76%	90%	-14%
40) Diagnosis: Respiratory system: traumatic/mechanical disorders of lower airways	76%	86%	-10%
41) Diagnosis: Skin and subcutaneous tissue: bacterial infections	17%	65%	-48%
42) Diagnosis: Skin and subcutaneous tissue: disorders of hair and hair follicles	50%	84%	-34%
43) Diagnosis: Skin and subcutaneous tissue: traumatic and mechanical disorders	59%	65%	-6%
44) Foundation: Behavioral health: adaptive behavioral responses to stress and illness	59%	80%	-21%
45) Foundation: Behavioral health: psychosocial disorders/behaviors	48%	67%	-19%
46) Foundation: Blood and lymphoreticular system: anemias: decreased production	77%	87%	-10%
47) Foundation: Blood and lymphoreticular system: anemias: disorders of hemoglobin, heme, or membrane	29%	83%	-54%

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	School	National	
48) Foundation: Blood and lymphoreticular system: anemias: hemolysis	36%	74%	-38%
49) Foundation: Blood and lymphoreticular system: cytopenias	28%	72%	-44%
50) Foundation: Blood and lymphoreticular system: hypercoagulable disorders	61%	82%	-21%
51) Foundation: Blood and lymphoreticular system: immunologic disorders	17%	71%	-54%
52) Foundation: Blood and lymphoreticular system: neoplasms of blood and lymphatic system	23%	80%	-57%
53) Foundation: Blood and lymphoreticular system: neoplasms of blood and lymphatic system	36%	78%	-42%
54) Foundation: Blood and lymphoreticular system: organ structure and function	35%	53%	-18%
55) Foundation: Cardiovascular system: adverse effects of drugs	66%	90%	-24%
56) Foundation: Cardiovascular system: chambers, valves	32%	55%	-23%
57) Foundation: Cardiovascular system: chambers, valves	53%	66%	-13%
58) Foundation: Cardiovascular system: congenital disorders	22%	61%	-39%
59) Foundation: Cardiovascular system: diseases of the veins	22%	64%	-42%
60) Foundation: Cardiovascular system: dyslipidemia	16%	68%	-52%
61) Foundation: Cardiovascular system: heart failure	25%	55%	-30%
62) Foundation: Cardiovascular system: immunologic and inflammatory disorders	34%	75%	-41%
63) Foundation: Cardiovascular system: immunologic and inflammatory disorders	48%	80%	-32%
64) Foundation: Cardiovascular system: neoplasms	23%	46%	-23%
65) Foundation: Endocrine system: adrenal disorders	32%	73%	-41%
66) Foundation: Endocrine system: adverse effects of drugs	74%	78%	-4%
67) Foundation: Endocrine system: congenital disorders	83%	83%	0%
68) Foundation: Endocrine system: diabetes mellitus	28%	59%	-31%
69) Foundation: Endocrine system: hypoglycemia and islet cell disorders	39%	83%	-44%
70) Foundation: Endocrine system: pituitary disorders	48%	69%	-21%
71) Foundation: Endocrine system: thyroid disorders	66%	82%	-16%
72) Foundation: Endocrine system: thyroid hormones	14%	61%	-47%
73) Foundation: Female reproductive and breast: cell/tissue structure and function	64%	45%	19%
74) Foundation: Female reproductive and breast: female structure, including breast	82%	61%	21%

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	School	National	
75) Foundation: Female reproductive and breast: infectious/immune/inflammatory disorders	70%	82%	-12%
76) Foundation: Gastrointestinal system: adverse effects of drugs	43%	79%	-36%
77) Foundation: Gastrointestinal system: bacterial infections	74%	85%	-11%
78) Foundation: Gastrointestinal system: congenital disorders	33%	54%	-21%
79) Foundation: Gastrointestinal system: disorders of the biliary system	20%	69%	-49%
80) Foundation: Gastrointestinal system: disorders of the liver	14%	64%	-50%
81) Foundation: Gastrointestinal system: disorders of the pancreas	49%	81%	-32%
82) Foundation: Gastrointestinal system: disorders of the rectum and anus	35%	62%	-27%
83) Foundation: Gastrointestinal system: disorders of the small intestine, colon	33%	73%	-40%
84) Foundation: Gastrointestinal system: disorders of the stomach	48%	87%	-39%
85) Foundation: Gastrointestinal system: malignant neoplasms	70%	88%	-18%
86) Foundation: Gastrointestinal system: salivary/GI/pancreatic/hepatic secretory products	20%	69%	-49%
87) Foundation: General Principles: acute inflammation and mediator systems	47%	58%	-11%
88) Foundation: General Principles: adaptive cell responses and cellular homeostasis	37%	87%	-50%
89) Foundation: General Principles: bacterial structure	61%	83%	-22%
90) Foundation: General Principles: cell/tissue structure, regulation, function	28%	54%	-26%
91) Foundation: General Principles: chronic inflammatory responses	36%	78%	-42%
92) Foundation: General Principles: energy metabolism	26%	36%	-10%
93) Foundation: General Principles: fungal processes, replication, and genetics	45%	44%	1%
94) Foundation: General Principles: gene expression: transcription	53%	52%	1%
95) Foundation: General Principles: mechanisms of drug action, structure-activity relationships	30%	89%	-59%
96) Foundation: General Principles: mechanisms of drug interactions	77%	90%	-13%
97) Foundation: General Principles: mechanisms of injury and necrosis	38%	55%	-17%
98) Foundation: General Principles: microbial identification and classification	23%	62%	-39%
99) Foundation: General Principles: parasite processes, replication, and genetics	2%	70%	-68%
100) Foundation: General Principles: pharmacokinetics	38%	47%	-9%
101) Foundation: General Principles: population genetics	23%	68%	-45%

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	School	National	
102) Foundation: General Principles: principles of gene therapy	34%	67%	-33%
103) Foundation: General Principles: prions	66%	81%	-15%
104) Foundation: General Principles: structure and function of proteins and enzymes	80%	91%	-11%
105) Foundation: General Principles: tissue response to disease: clinical manifestations	42%	93%	-51%
106) Foundation: General Principles: tissue response to disease: clinical manifestations	57%	54%	3%
107) Foundation: Immune System: adverse effects of drugs	46%	58%	-12%
108) Foundation: Immune System: B lymphocytes, plasma cells	28%	49%	-21%
109) Foundation: Immune System: basis of immunologic diagnostics	59%	84%	-25%
110) Foundation: Immune System: deficiency primarily of cell-mediated immunity	45%	90%	-45%
111) Foundation: Immune System: hypersensitivity reactions	58%	83%	-25%
112) Foundation: Immune System: regulation of the adaptive immune response	73%	74%	-1%
113) Foundation: Immune System: T lymphocytes, T-lymphocyte receptors, accessory molecules	77%	84%	-7%
114) Foundation: Immune System: transplantation	37%	44%	-7%
115) Foundation: Male reproductive: adverse effects of drugs	30%	66%	-36%
116) Foundation: Male reproductive: infectious disorders	75%	80%	-5%
117) Foundation: Male reproductive: metabolic and regulatory disorders	58%	76%	-18%
118) Foundation: Male reproductive: traumatic and mechanical disorders	85%	86%	-1%
119) Foundation: Multisystem processes and disorders: functions of nutrients	91%	89%	2%
120) Foundation: Multisystem processes and disorders: genetic: enzymatic/metabolic	29%	82%	-53%
121) Foundation: Multisystem processes and disorders: genetic: enzymatic/metabolic	35%	79%	-44%
122) Foundation: Multisystem processes and disorders: genetic: structural protein disorders	74%	69%	5%
123) Foundation: Multisystem processes and disorders: inherited cancer syndromes	32%	81%	-49%
124) Foundation: Multisystem processes and disorders: paraneoplastic syndromes	24%	70%	-46%
125) Foundation: Multisystem processes and disorders: principles of poisoning and therapy	29%	73%	-44%
126) Foundation: Multisystem processes and disorders: protein-calorie malnutrition	33%	62%	-29%
127) Foundation: Multisystem processes and disorders: shock	25%	70%	-45%
128) Foundation: Multisystem processes and disorders: vitamin deficiencies and/or toxicities	28%	71%	-43%

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	School	National	
129) Foundation: Multisystem processes and disorders: vitamin deficiencies and/or toxicities	30%	85%	-55%
130) Foundation: Multisystem processes and disorders: vitamin deficiencies and/or toxicities	30%	86%	-56%
131) Foundation: Musculoskeletal system: congenital disorders	52%	66%	-14%
132) Foundation: Musculoskeletal system: degenerative/metabolic disorders: joints	22%	51%	-29%
133) Foundation: Musculoskeletal system: degenerative/metabolic disorders: muscle/ligaments/fascia	49%	56%	-7%
134) Foundation: Musculoskeletal system: embryology/fetal maturation/perinatal changes	24%	54%	-30%
135) Foundation: Musculoskeletal system: immunologic disorders	25%	68%	-43%
136) Foundation: Musculoskeletal system: organ structure and function	23%	53%	-30%
137) Foundation: Musculoskeletal system: traumatic and mechanical disorders	66%	65%	1%
138) Foundation: Nervous system and special senses: adverse effects of drugs	36%	88%	-52%
139) Foundation: Nervous system and special senses: axonal transport	26%	54%	-28%
140) Foundation: Nervous system and special senses: brain metabolism	71%	63%	8%
141) Foundation: Nervous system and special senses: congenital disorders	37%	51%	-14%
142) Foundation: Nervous system and special senses: cranial nerve injury and disorders	65%	92%	-27%
143) Foundation: Nervous system and special senses: higher function	20%	53%	-33%
144) Foundation: Nervous system and special senses: metabolic disorders	66%	77%	-11%
145) Foundation: Nervous system and special senses: movement disorders	40%	91%	-51%
146) Foundation: Nervous system and special senses: neurologic pain syndromes	92%	89%	3%
147) Foundation: Nervous system and special senses: traumatic and mechanical disorders	38%	64%	-26%
148) Foundation: Pregnancy, childbirth, and the puerperium: organ structure and function	71%	86%	-15%
149) Foundation: Renal and urinary system: adverse effects of drugs	83%	71%	12%
150) Foundation: Renal and urinary system: glomerular filtration and hemodynamics	46%	89%	-43%
151) Foundation: Renal and urinary system: immune/inflammatory: glomerular disorders	20%	77%	-57%
152) Foundation: Renal and urinary system: kidneys, ureters, bladder, urethra	57%	64%	-7%
153) Foundation: Renal and urinary system: malignant neoplasms	22%	72%	-50%
154) Foundation: Renal and urinary system: metabolic and regulatory disorders	67%	57%	10%
155) Foundation: Renal and urinary system: renal metabolism and oxygen consumption	30%	74%	-44%



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Content Description	% Answering Correctly		Difference (Schl-Natl)
	School	National	
156) Foundation: Renal and urinary system: traumatic and mechanical disorders	66%	62%	4%
157) Foundation: Respiratory system: embryology/fetal maturation/perinatal changes	38%	50%	-12%
158) Foundation: Respiratory system: failure/arrest, pulmonary vascular disorders	64%	86%	-22%
159) Foundation: Respiratory system: infectious/immune/inflammatory disorders: lower airways	9%	85%	-76%
160) Foundation: Respiratory system: metastatic neoplasms	62%	71%	-9%
161) Foundation: Respiratory system: nasopharynx, sinuses	84%	79%	5%
162) Foundation: Respiratory system: obstructive airway disease	47%	89%	-42%
163) Foundation: Skin and subcutaneous tissue: cell/tissue structure/function	48%	68%	-20%
164) Foundation: Skin and subcutaneous tissue: disorders of pigmentation	35%	70%	-35%
165) Foundation: Skin and subcutaneous tissue: embryology/fetal maturation/neonatal changes	10%	76%	-66%
166) Foundation: Skin and subcutaneous tissue: parasitic infections	34%	84%	-50%
167) Gen Principle: Biostat, Epi, Population Health, Lit Interp: correlation and regression	73%	82%	-9%
168) Gen Principle: Biostat, Epi, Population Health, Lit Interp: distributions of data	84%	75%	9%
169) Gen Principle: Biostat, Epi, Population Health, Lit Interp: incidence/prevalence	67%	64%	3%
170) Gen Principle: Biostat, Epi, Population Health, Lit Interp: interp basic tests of statistical significance	76%	73%	3%
171) Gen Principle: Biostat, Epi, Population Health, Lit Interp: measures of association, other	22%	85%	-63%
172) Gen Principle: Biostat, Epi, Population Health, Lit Interp: measures of health status	61%	58%	3%
173) Gen Principle: Biostat, Epi, Population Health, Lit Interp: Research ethics: other issues related to research ethics	67%	56%	11%
174) Gen Principle: Biostat, Epi, Population Health, Lit Interp: sensitivity, specificity, predictive values	62%	76%	-14%
175) Gen Principle: Biostat, Epi, Population Health, Lit Interp: study design: matching, inclusion/exclusion criteria	53%	64%	-11%
176) Gen Principle: Biostat, Epi, Population Health, Lit Interp: study design: methods to handle noncompliance	43%	61%	-18%
177) Gen Principle: Biostat, Epi, Population Health, Lit Interp: study design: qualitative analysis	68%	85%	-17%
178) Gen Principle: Social Sciences: enabling patient behaviors	90%	89%	1%
179) Gen Principle: Social Sciences: enabling patient behaviors	99%	96%	3%
180) Gen Principle: Social Sciences: fostering the relationship	86%	81%	5%
181) Gen Principle: Social Sciences: information gathering	60%	52%	8%



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	School	National	
182) Gen Principle: Social Sciences: information gathering	73%	59%	14%
183) Gen Principle: Social Sciences: information gathering	85%	89%	-4%
184) Gen Principle: Social Sciences: information gathering	99%	83%	16%
185) Gen Principle: Social Sciences: information provision	90%	86%	4%
186) Gen Principle: Social Sciences: making decisions	79%	74%	5%
187) Gen Principle: Social Sciences: supporting emotions	87%	47%	40%
188) Gen Principle: Social Sciences: supporting emotions	91%	89%	2%
189) Gen Principle: Social Sciences: use of an interpreter or surrogate	79%	95%	-16%
190) Gen Principle: Social Sciences: use of an interpreter or surrogate	97%	84%	13%