



Statistical Report: CCSP[®] and DACBSP[®] Examinations November 2023 Administration

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Executive Summary

This report provides a summary of the results for the fall 2023 administration of the two certifications offered by the American Chiropractic Board of Sports Physicians™ (ACBSP™): Certified Chiropractic Sports Physician® (CCSP®) and Diplomate of the American Chiropractic Board of Sports Physicians® (DACBSP®). A total of 71 candidates took the CCSP® and 11 candidates took the DACBSP®. Items were flagged based on statistical considerations or candidates' comments, reviewed by experts, and some were rescored with credit to all examinees if determined flawed. The rescored results are presented in this report. Given the small sample sizes, the coefficient alpha reliability indices were strong (0.87 for CCSP®; not calculable for DACBSP®) and the pass rates were in line with historical rates, providing validity evidence for the quality of the examinations.

Introduction

The CCSP® and DACBSP®

The American Chiropractic Board of Sports Physicians™ (ACBSP™) provides two certifications to the field: Certified Chiropractic Sports Physician® (CCSP®) and Diplomate of the American Chiropractic Board of Sports Physicians® (DACBSP®). ACBSP™ administers the CCSP® and DACBSP® exams twice each year. Both consist of 200 4-option multiple choice items in a linear format, in two sections.

November 2023 Administration

The tests were delivered on November 4, 2023, with live remote proctoring using two video streams per candidate. After the tests were delivered, an initial psychometric analysis was performed. Items with very low difficulty (P-value) or discrimination (point-biserial) were flagged for review by content experts. Items with specific comments left by examinees were also flagged. Any items deemed to have issues by the experts were granted credit to examinees. Examinees were then rescored with the updated parameters.

Standard Setting & Equating

For the CCSP®, the pass/fail standard for each form was set in the past with the modified-Angoff method, and this administration was equated to it. For the DACBSP®, this administration was a new Angoff process.

The average Angoff value for the items in a form was calculated, and when multiplied by the number of items, a raw cutscore was determined. In the interest of fairness to the candidates, one standard error of measurement (SEM) was then subtracted to arrive at the final standard.

The National Commission for Certifying Agencies (NCCA) recommends that cutscores be set with a standard-setting approach like Bookmark or modified-Angoff, but only periodically. For continuous usage, they recommend that a statistical equating procedure be employed.

Equating means that the actual data be analyzed, comparing performance on overlapping and non-overlapping items.

Suppose you take Form A and get a score of 72/100 while your friend takes Form B and gets a score of 74/100. Is your friend smarter than you, or did his form happen to have easier

questions? What if the passing score on the exam was 73? Well, if the test designer's built-in some overlap of items between the forms, we can answer this question empirically.

Suppose two forms, A and B, each have 100 items and are both delivered to a large, representative sample of test takers. Let us also assume that 50 items are the same between Form A and Form B. After we score the test for each group of test takers we get the results in Table 1 below. As we know that the 50 items in common between Form A and B are the same (no changes to the question or answers), because the mean score on the anchor items was higher for the Form B test takers, we can assume that this group was a little more able, which leads to their higher overall test score.

Table 1. Mean scores on Total Test and Anchor across two forms

Exam Form	Mean score on 50 overlap items	Mean score on 100 total items
A	30	72
B	32	74

Now, let us assume we see the results in Table 2 instead. Here, we see that the mean scores for both groups on the common (overlapping) items are the same. Since these items are identical for both groups of test takers, we have evidence that the groups are of equal ability. Therefore, the higher score that we see on Form B is most likely due to the unique (different) items on Form B, which may be a bit easier.

Table 2. Mean scores on Total Test and Anchor across two forms

Exam Form	Mean score on 50 overlap items	Mean score on 100 total items
A	32	72
B	32	74

As you can see from this example, making inferences about the scores when there are differences in items across forms may lead to incorrect inferences about test scores. Using the process of equating, we can adjust the scores between forms so as we can establish comparable scores, with equivalent meaning, across different test forms.

There are several approaches that can be used to equate forms. The ACBSP™ program uses the non-equivalent group with anchor test (NEAT) design using nominal weights equating

(Babcock, Albano, & Raymond, 2012) as this method has been shown to work well with samples sized less than 100.

November 2023 Exam Cutscores

The cutscore for the April 2023 CCSP® exam was 139. Using nominal weights equating between administrations, the resulting November 2023 cutscore was 124.

The cutscore for the April 2023 DACBSP® exam was 133. Using nominal weights equating between administrations, the resulting November 2023 cutscore was 123.

Psychometric Performance

The following table provides summary statistics across each form of the exams. Candidates performed very well, with high mean scores and pass rates, comparable to past administrations of these exams. The most important result in these tables is the coefficient alpha reliability index, which summarizes the consistency or repeatability of the measurement process onto a scale of 0 (random numbers) to 1 (perfect measurement). It was 0.87 for the CCSP®, which is sufficiently reliable. The sample size was too low with DACBSP® to calculate this coefficient.

Table 3. Summary statistics for each ABSCP™ exam

Statistic	Exam	
	CCSP®	DACBSP®
Examinees	71	11
Items	200	200
Mean	146.92	127.00
SD	16.67	10.05
Variance	277.89	101.00
Min	111	112
Max	172	141
Pass rate	88.73%	63.64%
Alpha	0.87	NA
SEM	5.92	NA

* Note: Statistics are calculated after any problematic items are removed due to statistical and/or content issues.

The tables below provide summary statistics of examinee performance on the domains of each test

Table 4. Summary statistics on the CCSP® domains

CCSP® Domain	Items	Mean	Min	Max
01A. Concepts of a Sports Physician (IA)	24	19.00	14	23
01B. Exercise Physiology (IB)	17	12.87	7	17
01C. Clinical Biomechanics (IC)	18	13.44	7	18
01D. Sports Nutrition (ID)	14	9.96	4	14
01E. Environment and the Athlete (IE)	10	6.78	4	10
01F. Medical Legal Aspects (IF)	10	8.56	6	10
02A. Clinical Competency (IIA)	61	44.55	29	55
02B. Diagnostic Imaging (IIB)	14	9.68	6	13
02C. CPR and Emergency Procedures (IIC)	11	7.92	3	11
02D. Special Clinical Considerations (IID)	10	7.17	2	10
02E. Adjunctive Therapy (IIE)	11	7.00	3	11

Table 5. Summary statistics on the DACBSP® domains

DACBSP® Domains	Items	Mean	Min	Max
01. Exercise Physiology (I)	8	4.09	1	6
02. Rehabilitation Concepts and their Application to Athletes (II)	16	11.45	10	13
03. Sport Specific Biomechanics (III)	7	3.55	2	6
04. Diagnostics in Sports Medicine (IV)	7	3.18	1	5
05. Evaluation and Management of Soft Tissue Injuries (IX)	21	12.45	10	15
06. Functional and Supportive Taping, Bracing and Splinting (V)	8	6.64	4	8
07. Biopsychosocial Considerations (VI)	7	6.00	4	7
08. Sports Equipment and Technology (VII)	4	2.55	1	3
09. Advanced Principles of Joint Manipulation (VIII)	10	5.00	2	7
10. Special Populations in Sport (X)	32	18.09	12	24
11. Emergency Procedures (XI)	18	14.00	12	17
12. Sports Medicine Research (XII)	5	3.18	2	4
13. Team Physicians Concepts (XIII)	25	14.45	11	18
14. Anti-doping and Pharmacology in Sports Medicine (XIV)	4	1.64	0	4
15. Concussion (XV)	19	14.91	11	17
16. Nutrition (XVI)	4	2.00	1	3
17. Preparticipation Examination (XVII)	5	3.82	2	5

Program Statistics

To sit for the ACBSP™ exams, candidates must first complete extensive training at a university with a relevant training program. Candidates list this in their application process. The tables below provide student performance results for each program. Detailed reports, which can be provided to the schools are provided in Appendix A.

Table 6. Program Statistics for the CSSP®

Program	Fail	Pass	Program Mean
DC Online	7.5%	92.5%	148.18
Life College (Marietta, Ga)	--	100.0%	127.00
Logan University	50.0%	50.0%	138.00
National University of Health Sciences	--	100.0%	155.50
Northeast College of Health Sciences Formerly NYCC	--	100.0%	154.00
Northwestern Health Sciences University	33.3%	66.7%	126.67
Palmer College of Chiropractic	--	100.0%	156.00
Parker College of Chiropractic	--	100.0%	129.00
Southern California University of Health Sciences	--	100.0%	156.00
Texas Chiropractic College	--	100.0%	145.50
University of Western States	14.3%	85.7%	147.43
Other College or University	50.0%	50.0%	136.50
Other**	--	100.0%	158.00

** Other includes individuals that reported they held different types of certifications or individuals who had no program indicated.

Table 6: Program Statistics for the DACBSP®

Program	Fail	Pass	Program Mean
DC Online	57.1%	42.9%	121.43
Cleveland University	--	100.0%	135.00
Sports Medicine Residency	--	100.0%	137.33

Summary

November 2023 was a successful administration of the CCSP® and DACBSP® examinations. Both test forms used in the administration met psychometric adequate standards. The proctoring process encountered no major issues; as seen by the comments in Appendix B, most comments were positive or neutral, which means that no issues were encountered. Some candidates have suggestions which could be considered.

Appendix A: Statistics for the CCSP® Exam

PERFORMANCE ON THE NOVEMBER 2023 CCSP® EXAM ACROSS PROGRAMS

Listed below is the performance on the November 2023 CCSP® exam grouped by program. Each table shows the average performance for the program compared to the average performance across all programs. Also listed are the total numbers of items for each examination.

Program:

DC ONLINE

CCSP® Domain	Items	Mean	Min	Max
01A. Concepts of a Sports Physician (IA)	24	18.92	14	23
01B. Exercise Physiology (IB)	17	13.05	7	17
01C. Clinical Biomechanics (IC)	18	13.65	9	18
01D. Sports Nutrition (ID)	14	10.45	7	14
01E. Environment and the Athlete (IE)	10	6.70	4	10
01F. Medical Legal Aspects (IF)	10	8.50	6	10
02A. Clinical Competency (IIA)	61	44.32	29	55
02B. Diagnostic Imaging (IIB)	14	10.05	7	13
02C. CPR and Emergency Procedures (IIC)	11	8.18	3	10
02D. Special Clinical Considerations (IID)	10	7.40	5	10
02E. Adjunctive Therapy (IIE)	11	6.95	3	11
TOTAL	200	148.18	111	172

Program:

LIFE COLLEGE (MARIETTA, GA)

CCSP® Domain	Items	Mean	Min	Max
01A. Concepts of a Sports Physician (IA)	24	19.00	19	19
01B. Exercise Physiology (IB)	17	10.00	10	10
01C. Clinical Biomechanics (IC)	18	12.00	12	12
01D. Sports Nutrition (ID)	14	9.00	9	9
01E. Environment and the Athlete (IE)	10	4.00	4	4
01F. Medical Legal Aspects (IF)	10	10.00	10	10
02A. Clinical Competency (IIA)	61	42.00	42	42
02B. Diagnostic Imaging (IIB)	14	8.00	8	8
02C. CPR and Emergency Procedures (IIC)	11	5.00	5	5
02D. Special Clinical Considerations (IID)	10	2.00	2	2
02E. Adjunctive Therapy (IIE)	11	6.00	6	6
TOTAL	200	127.00	127	127

Program:

LOGAN UNIVERSITY

CCSP® Domain	Items	Mean	Min	Max
01A. Concepts of a Sports Physician (IA)	24	18.00	15	21
01B. Exercise Physiology (IB)	17	12.50	12	13
01C. Clinical Biomechanics (IC)	18	12.25	9	16
01D. Sports Nutrition (ID)	14	7.50	5	12
01E. Environment and the Athlete (IE)	10	7.25	5	9
01F. Medical Legal Aspects (IF)	10	9.00	7	10
02A. Clinical Competency (IIA)	61	42.00	29	52
02B. Diagnostic Imaging (IIB)	14	8.50	6	12
02C. CPR and Emergency Procedures (IIC)	11	7.00	6	8
02D. Special Clinical Considerations (IID)	10	6.75	4	9
02E. Adjunctive Therapy (IIE)	11	7.25	6	9
TOTAL	200	138.00	113	165

Program:

NATIONAL UNIVERSITY OF HEALTH SCIENCES

CCSP® Domain	Items	Mean	Min	Max
01A. Concepts of a Sports Physician (IA)	24	20.25	19	21
01B. Exercise Physiology (IB)	17	12.75	11	14
01C. Clinical Biomechanics (IC)	18	14.75	13	17
01D. Sports Nutrition (ID)	14	9.75	9	11
01E. Environment and the Athlete (IE)	10	8.00	6	10
01F. Medical Legal Aspects (IF)	10	8.50	7	9
02A. Clinical Competency (IIA)	61	48.00	41	52
02B. Diagnostic Imaging (IIB)	14	10.50	9	12
02C. CPR and Emergency Procedures (IIC)	11	8.00	7	9
02D. Special Clinical Considerations (IID)	10	7.25	6	8
02E. Adjunctive Therapy (IIE)	11	7.75	6	11
TOTAL	200	155.50	142	169

Program:

NORTHEAST COLLEGE OF HEALTH SCIENCES FORMERLY NYCC

CCSP® Domain	Items	Mean	Min	Max
01A. Concepts of a Sports Physician (IA)	24	20.00	20	20
01B. Exercise Physiology (IB)	17	12.00	12	12
01C. Clinical Biomechanics (IC)	18	14.00	14	14
01D. Sports Nutrition (ID)	14	11.00	11	11
01E. Environment and the Athlete (IE)	10	9.00	9	9
01F. Medical Legal Aspects (IF)	10	9.00	9	9
02A. Clinical Competency (IIA)	61	49.00	49	49
02B. Diagnostic Imaging (IIB)	14	11.00	11	11
02C. CPR and Emergency Procedures (IIC)	11	6.00	6	6
02D. Special Clinical Considerations (IID)	10	6.00	6	6
02E. Adjunctive Therapy (IIE)	11	7.00	7	7
TOTAL	200	154.00	154	154

Program:

NORTHWESTERN HEALTH SCIENCES UNIVERSITY

CCSP® Domain	Items	Mean	Min	Max
01A. Concepts of a Sports Physician (IA)	24	17.67	17	18
01B. Exercise Physiology (IB)	17	10.33	9	11
01C. Clinical Biomechanics (IC)	18	11.00	8	15
01D. Sports Nutrition (ID)	14	8.33	7	10
01E. Environment and the Athlete (IE)	10	6.67	6	7
01F. Medical Legal Aspects (IF)	10	9.00	8	10
02A. Clinical Competency (IIA)	61	36.33	34	38
02B. Diagnostic Imaging (IIB)	14	8.33	6	10
02C. CPR and Emergency Procedures (IIC)	11	7.33	7	8
02D. Special Clinical Considerations (IID)	10	6.33	5	8
02E. Adjunctive Therapy (IIE)	11	5.33	4	6
TOTAL	200	126.67	123	132

Program:

PALMER COLLEGE OF CHIROPRACTIC

CCSP® Domain	Items	Mean	Min	Max
01A. Concepts of a Sports Physician (IA)	24	19.00	19	19
01B. Exercise Physiology (IB)	17	13.00	13	13
01C. Clinical Biomechanics (IC)	18	16.00	16	16
01D. Sports Nutrition (ID)	14	8.00	8	8
01E. Environment and the Athlete (IE)	10	9.00	9	9
01F. Medical Legal Aspects (IF)	10	8.00	8	8
02A. Clinical Competency (IIA)	61	46.00	46	46
02B. Diagnostic Imaging (IIB)	14	11.00	11	11
02C. CPR and Emergency Procedures (IIC)	11	11.00	11	11
02D. Special Clinical Considerations (IID)	10	8.00	8	8
02E. Adjunctive Therapy (IIE)	11	7.00	7	7
TOTAL	200	156.00	156	156

Program:

PARKER COLLEGE OF CHIROPRACTIC

CCSP® Domain	Items	Mean	Min	Max
01A. Concepts of a Sports Physician (IA)	24	17.00	17	17
01B. Exercise Physiology (IB)	17	12.00	12	12
01C. Clinical Biomechanics (IC)	18	10.00	10	10
01D. Sports Nutrition (ID)	14	7.00	7	7
01E. Environment and the Athlete (IE)	10	5.00	5	5
01F. Medical Legal Aspects (IF)	10	8.00	8	8
02A. Clinical Competency (IIA)	61	41.00	41	41
02B. Diagnostic Imaging (IIB)	14	11.00	11	11
02C. CPR and Emergency Procedures (IIC)	11	4.00	4	4
02D. Special Clinical Considerations (IID)	10	5.00	5	5
02E. Adjunctive Therapy (IIE)	11	9.00	9	9
TOTAL	200	129.00	129	129

Program:

SOUTHERN CALIFORNIA UNIVERSITY OF HEALTH SCIENCES

CCSP® Domain	Items	Mean	Min	Max
01A. Concepts of a Sports Physician (IA)	24	21.00	21	21
01B. Exercise Physiology (IB)	17	15.00	15	15
01C. Clinical Biomechanics (IC)	18	16.00	16	16
01D. Sports Nutrition (ID)	14	8.00	8	8
01E. Environment and the Athlete (IE)	10	6.00	6	6
01F. Medical Legal Aspects (IF)	10	9.00	9	9
02A. Clinical Competency (IIA)	61	49.00	49	49
02B. Diagnostic Imaging (IIB)	14	10.00	10	10
02C. CPR and Emergency Procedures (IIC)	11	8.00	8	8
02D. Special Clinical Considerations (IID)	10	7.00	7	7
02E. Adjunctive Therapy (IIE)	11	7.00	7	7
TOTAL	200	156.00	156	156

Program:

TEXAS CHIROPRACTIC COLLEGE

CCSP® Domain	Items	Mean	Min	Max
01A. Concepts of a Sports Physician (IA)	24	19.00	19	19
01B. Exercise Physiology (IB)	17	14.00	13	15
01C. Clinical Biomechanics (IC)	18	12.00	11	13
01D. Sports Nutrition (ID)	14	10.50	9	12
01E. Environment and the Athlete (IE)	10	6.00	6	6
01F. Medical Legal Aspects (IF)	10	9.00	9	9
02A. Clinical Competency (IIA)	61	44.50	36	53
02B. Diagnostic Imaging (IIB)	14	10.00	9	11
02C. CPR and Emergency Procedures (IIC)	11	7.50	7	8
02D. Special Clinical Considerations (IID)	10	7.00	7	7
02E. Adjunctive Therapy (IIE)	11	6.00	6	6
TOTAL	200	145.50	133	158

Program:

UNIVERSITY OF WESTERN STATES

CCSP® Domain	Items	Mean	Min	Max
01A. Concepts of a Sports Physician (IA)	24	18.86	16	21
01B. Exercise Physiology (IB)	17	12.86	9	15
01C. Clinical Biomechanics (IC)	18	14.00	11	17
01D. Sports Nutrition (ID)	14	9.71	4	13
01E. Environment and the Athlete (IE)	10	6.43	5	8
01F. Medical Legal Aspects (IF)	10	8.14	6	9
02A. Clinical Competency (IIA)	61	46.57	37	52
02B. Diagnostic Imaging (IIB)	14	9.29	7	12
02C. CPR and Emergency Procedures (IIC)	11	7.86	6	10
02D. Special Clinical Considerations (IID)	10	6.86	4	9
02E. Adjunctive Therapy (IIE)	11	6.86	4	11
TOTAL	200	147.43	120	167

Program:

OTHER COLLEGE OR UNIVERSITY

CCSP® Domain	Items	Mean	Min	Max
01A. Concepts of a Sports Physician (IA)	24	19.00	17	21
01B. Exercise Physiology (IB)	17	12.50	9	16
01C. Clinical Biomechanics (IC)	18	8.50	7	10
01D. Sports Nutrition (ID)	14	9.00	6	12
01E. Environment and the Athlete (IE)	10	6.50	4	9
01F. Medical Legal Aspects (IF)	10	8.50	8	9
02A. Clinical Competency (IIA)	61	43.50	43	44
02B. Diagnostic Imaging (IIB)	14	8.50	6	11
02C. CPR and Emergency Procedures (IIC)	11	7.50	7	8
02D. Special Clinical Considerations (IID)	10	7.00	6	8
02E. Adjunctive Therapy (IIE)	11	6.00	5	7
TOTAL	200	136.50	122	151

Program:

OTHER

CCSP® Domain	Items	Mean	Min	Max
01A. Concepts of a Sports Physician (IA)	24	20.50	20	22
01B. Exercise Physiology (IB)	17	13.75	11	16
01C. Clinical Biomechanics (IC)	18	15.00	13	17
01D. Sports Nutrition (ID)	14	11.25	10	12
01E. Environment and the Athlete (IE)	10	7.25	6	8
01F. Medical Legal Aspects (IF)	10	8.75	8	10
02A. Clinical Competency (IIA)	61	48.00	45	55
02B. Diagnostic Imaging (IIB)	14	7.75	6	9
02C. CPR and Emergency Procedures (IIC)	11	8.50	6	10
02D. Special Clinical Considerations (IID)	10	8.50	7	10
02E. Adjunctive Therapy (IIE)	11	8.75	7	11
TOTAL	200	158.00	152	171

Appendix B: Statistics for the DACBSP® Exam

PERFORMANCE ON THE NOVEMBER 2023 DACBSP® EXAM ACROSS PROGRAMS

Listed below is the performance on the November 2023 DACBSP® exam grouped by program. Each table shows the average performance for the program compared to the average performance across all programs. Also listed are the total numbers of items for each examination.

Program:

DC ONLINE

DACBSP® Domain	Items	Mean	Min	Max
01. Exercise Physiology (I)	8	3.86	1	6
02. Rehabilitation Concepts and their Application to Athletes (II)	16	10.71	10	11
03. Sport Specific Biomechanics (III)	7	3.29	2	5
04. Diagnostics in Sports Medicine (IV)	7	3.57	2	5
05. Evaluation and Management of Soft Tissue Injuries (IX)	21	12.00	10	15
06. Functional and Supportive Taping, Bracing and Splinting (V)	8	6.57	4	8
07. Biopsychosocial Considerations (VI)	7	6.00	4	7
08. Sports Equipment and Technology (VII)	4	2.43	1	3
09. Advanced Principles of Joint Manipulation (VIII)	10	4.43	2	7
10. Special Populations in Sport (X)	32	16.86	12	20
11. Emergency Procedures (XI)	18	13.29	12	15
12. Sports Medicine Research (XII)	5	3.14	2	4
13. Team Physicians Concepts (XIII)	25	13.71	11	18
14. Anti-doping and Pharmacology in Sports Medicine (XIV)	4	1.71	1	4
15. Concussion (XV)	19	14.14	11	15
16. Nutrition (XVI)	4	1.86	1	3
17. Preparticipation Examination (XVII)	5	3.86	2	5
TOTAL	200	121.43	112	136

Program:

CLEVELAND UNIVERSITY

DACBSP® Domain	Items	Mean	Min	Max
01. Exercise Physiology (I)	8	5.00	5	5
02. Rehabilitation Concepts and their Application to Athletes (II)	16	13.00	13	13
03. Sport Specific Biomechanics (III)	7	2.00	2	2
04. Diagnostics in Sports Medicine (IV)	7	1.00	1	1
05. Evaluation and Management of Soft Tissue Injuries (IX)	21	13.00	13	13
06. Functional and Supportive Taping, Bracing and Splinting (V)	8	6.00	6	6
07. Biopsychosocial Considerations (VI)	7	7.00	7	7
08. Sports Equipment and Technology (VII)	4	3.00	3	3
09. Advanced Principles of Joint Manipulation (VIII)	10	7.00	7	7
10. Special Populations in Sport (X)	32	17.00	17	17
11. Emergency Procedures (XI)	18	17.00	17	17
12. Sports Medicine Research (XII)	5	3.00	3	3
13. Team Physicians Concepts (XIII)	25	17.00	17	17
14. Anti-doping and Pharmacology in Sports Medicine (XIV)	4	2.00	2	2
15. Concussion (XV)	19	16.00	16	16
16. Nutrition (XVI)	4	2.00	2	2
17. Preparticipation Examination (XVII)	5	4.00	4	4
TOTAL	200	135.00	135	135

Program:

SPORTS MEDICINE RESIDENCY

DACBSP® Domain	Items	Mean	Min	Max
01. Exercise Physiology (I)	8	4.33	3	5
02. Rehabilitation Concepts and their Application to Athletes (II)	16	12.67	12	13
03. Sport Specific Biomechanics (III)	7	4.67	3	6
04. Diagnostics in Sports Medicine (IV)	7	3.00	1	5
05. Evaluation and Management of Soft Tissue Injuries (IX)	21	13.33	12	15
06. Functional and Supportive Taping, Bracing and Splinting (V)	8	7.00	6	8
07. Biopsychosocial Considerations (VI)	7	5.67	5	6
08. Sports Equipment and Technology (VII)	4	2.67	2	3
09. Advanced Principles of Joint Manipulation (VIII)	10	5.67	5	7
10. Special Populations in Sport (X)	32	21.33	19	24
11. Emergency Procedures (XI)	18	14.67	14	15
12. Sports Medicine Research (XII)	5	3.33	3	4
13. Team Physicians Concepts (XIII)	25	15.33	14	17
14. Anti-doping and Pharmacology in Sports Medicine (XIV)	4	1.33	0	2
15. Concussion (XV)	19	16.33	15	17
16. Nutrition (XVI)	4	2.33	2	3
17. Preparticipation Examination (XVII)	5	3.67	3	5
TOTAL	200	137.33	134	141

Appendix C: Examinee Comments

The following tables provide a summary of examinee comments regarding the exam process; content-specific comments are pulled out and provided to the exam committee during the item review process, before releasing results.

CCSP® Comments
Content
Felt the med legal questions were a good assessment.
Overall, there were some questions that I don't recall learning, but MOST of them seemed to be 'fair' questions for this exam.
I feel as though many (if not the majority) of the test questions asked were not reflections of the course material.
I felt questions were fair and properly worded.
Some questions needed more details to answer correctly
Some wording on certain questions were slightly off or vague
Feel like several questions had multiple answers you could of argued, and several questions were confusing because of them being poorly written.
I felt questions were fair and properly worded.
At least two typos/spelling mistakes noted.
Well thought out and tough questions, but always able to narrow down answers.
Logistics
Unable to note specific questions of concern due to lack of scrap paper.
Logistics were fine, some differences between proctor requirements from the practice exam and exam day. I was told my exam location was fine by the initial proctor and today I was told there were a handful of issues.
Test administration was very pleasant. Personally, I feel like instead of having the test at home I would prefer it be at a testing center. I would love to have scratch paper especially for the math question or at least a calculator!
Mathematics based questions should allow for scrap paper, and I believe scrap paper would benefit many examinees overall as well. I cannot list the item number for the questions I had gripes about because I had nowhere to write them down.
I appreciated the test admin procedures and operations. I personally would've been interested in going to a testing site if available such as a prometric.
General
Smooth; Great; Convenient; Easy
Smooth process!
Testing procedures were easy and comfortable
I would of preferred to be in a proctoring station.
Admin procedures were great. Probably would prefer to take it at a proctored site - eliminates some of the stresses to taking the exam overall (wifi issues, connectivity, having the correct software and equipment).
Administration procedures were very straight forward.
The administration procedures are intense but seem appropriate to ensure test validity.

CCSP® Comments

Seemingly effortless and straight-forward. The practice test was helpful to making sure everything was ready for the actual exam

Practice Exam

I really appreciated having to do the practice exam. made the set-up process with all the software and computer requirements very easy on actual test day.

Other

It would be nice to be able to see a list of the questions that were marked for review so they could be remembered for the survey section. It's hard to remember specifics after 300 questions.

Wish we had scratch paper

I felt most test sections were fair and properly worded. I think some questions with more x-ray visuals could be helpful for questions and understanding

I wish we had the option to zoom in the images.

For the images, it would have been nice to be able to zoom in.

I was unable to see the complete image on 2 of the questions due to the position of the image when popped up

DACBSP® Comments

The physiology section of the exam should be consistent with the exam materials studied. I did not feel that the exam was very consistent with the information provided for that specific section.

Question 37 and 39, had resolution problems in the image, some of the images were not good resolution, difficult to see.

There were several questions that I felt had multiple correct answers due to the possible answer choices given being very vague.

To be effective in providing feedback on test question concerns I would need a note sheet to add comments and keep track of. A better option would be to add comments section below the quiz section.

I noticed several grammatical errors, but I did not make note of the question numbers.

This would be easier at a testing center. I would have paid more if that was an option.

all good

Concussion questions were very relevant to this exam and the course material provided a great resource to the questions asked.