

Physician Assistant- Medical Case Challenge



Event Category: Health Professions.....

Eligible Divisions: Secondary & Postsecondary/ Collegiate	Round One: 50 Q test (60 minutes)	Digital Upload: NO
Team Event: 2 competitors	Round Two: Patient Case Review (15 minutes) + Presentation (5 minutes)	Presentation Materials: Notes from case review prep



New for 2026-2027

This is a new event for 2026-2027.

TEXAS HOSA

Make sure to read TEXAS General Rules and Regulations for updated “Electronic Device Policies” and “Extended Stay Preparation”.

Area Spring Leadership Conference

Round one online test for Area will be given in December. The top ten (10) competitors will advance to round two (2) in person at the Area Spring Leadership Conference. The top three (3) scores in each Area will advance to State.

Texas State Leadership Conference

A Round 1 written exam will be used to slate the top ten (10) competitors for Round 2. Both Round 1 and Round 2 for State will be in person in Irving. The top three (3) scores from State will advance to ILC.

Event Summary

The Physician Assistant (PA) competitive event allows HOSA members to gain knowledge and assessment techniques needed for a career in the PA profession. This event consists of two rounds, and each team consists of two people. Round One will consist of a written multiple-choice test, and the score will be used to determine which teams qualify for Round Two. In Round Two teams will review case documentation to determine a diagnosis and develop an appropriate treatment plan for the patient.

Sponsorship

HOSA-Future Health Professionals appreciates the sponsorship of this event by the PA Education Association .	
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General Event Information

General Rules	Competitors must be familiar with and adhere to the General Rules and Regulations .
Dress Code	Proper business attire or official HOSA uniform. Bonus points will be awarded for proper dress . All team members must be properly dressed to receive bonus points.
Competitors Must Provide	• Photo ID for both rounds • #2 lead pencils (NOT mechanical) with eraser for both rounds • Neon colored foam earplugs, NOT earbuds, for noise control (Rd1-optional) • Copy of textbook (optional) HOSA Conference Staff will provide equipment and supplies listed in Appendix I .

Official References	• Papadakis, Rabow, McQuaid, Nadler, and Price. <i>Current Medical Diagnosis & Treatment</i> 2026. McGraw Hill. Latest Edition. • MedlinePlus
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ROUND ONE- Test

Test Instructions	All competitors will be given a test and answer sheet. The written test will consist of 50 multiple-choice items in a maximum of 60 minutes. See test instructions here . The team test score average from Round One will be used to qualify the team for the Round Two presentation.
Time Remaining Announcements	There will be NO verbal announcements for time remaining during ILC testing. All ILC testing will be completed in the Testing Center, and competitors are responsible for monitoring their own time.
Written Test Plan	The written test for Medical Case Challenge is: • Disease Process & Terminology (includes cancer & neoplasms)- 10% • Body Systems: ◦ Integumentary - 4% ◦ Musculoskeletal - 6% ◦ Circulatory & Lymphatic - 10% ◦ Respiratory - 6% ◦ Digestive - 10% ◦ Endocrine - 6% ◦ Nervous & Senses - 8% ◦ Reproductive - 4% ◦ Urinary - 4% ◦ Mental Disorders - 6% • Patient Assessment- 12% • Diagnosis- 14%
Sample Test Questions	1. Kidneys contain millions of tiny structures called what? (https://medlineplus.gov/kidneydiseases.html) A. Cysts B. Ureters C. Nephrons D. Calyx 2. Which one of these diseases are Antibody Serology Tests not used to detect? (https://medlineplus.gov/lab-tests/antibody-serology-tests/) A. Hepatitis B. Cancer C. Osteoporosis D. Severe autoimmune disorders 3. A patient might have a Uvulopalatopharyngoplasty (UPPP) to treat what condition? (https://medlineplus.gov/ency/article/007663.htm) A. Impacted molar B. Sleep apnea C. Cavity D. Canker sores

ROUND TWO- The Case Review & Presentation

1. The top teams from Round One will advance to Round Two. The number of advancing teams will be determined by the scores obtained in Round One and the space and time available for Round Two. Round Two finalists will be announced on-site at ILC per the conference agenda.
2. The team will be supplied with supporting documents for a selected complex medical case.
3. The team will be allowed to use their textbook and all identified resources during the review of the medical case.
4. The team will have 15 minutes to evaluate the documentation and formulate a case prevention.
5. The case presentation should include the following: a. Patient information and clinical course; patient's clinical condition and progression of the disease process presented in chronological order b. Accurate diagnosis c. Treatment plan; appropriate treatment plan (including all aspects of treatment)
6. The team will have five (5) minutes to present their findings to a group of judges. Teams are allowed to use their notes from the 15 minute evaluation in the presentation with judges. No other materials are allowed.
7. The timekeeper will announce when there is one (1) minute remaining in the presentation. The timekeeper will stop the presentation after five (5) minutes.
8. Both team members must take an active role in the presentation.

Final Scoring

1. The team test score average will be added to the presentation score to determine final results.
2. In case of a tie, the highest average test score will determine the rank.

Future Opportunities

The HOSA Scholarship program has funding available for HOSA members who have an interest in various health careers! The application process begins January 1, 2027, and can be found here: <https://hosa.org/scholarships/>.

Graduating from high school or completing your postsecondary/collegiate program does not mean your HOSA journey has to end. As a HOSA member, you are eligible to become a HOSA Lifetime Alumni Member- a free and valuable opportunity to remain connected, give back, and help to shape the future of the organization. Learn more and sign up at hosa.org/alumni.

Physician Assistant- Medical Case Challenge

Round Two Presentation

Team #: _____ Division: _____ SS _____ PS/C _____ Judge's Signature: _____

A. Presentation Content	EXCELLENT 15 points	GOOD 12 points	AVERAGE 9 points	FAIR 6 points	POOR 0 points	JUDGE SCORE
1. Patient information includes: objective and subjective data. Demographics, chief complaint, past medical history, social and family history are included.	All pertinent information is included. The information consists of both objective and subjective data. Demographics, chief complaint, past medical history, social and family history are included.	Most of the pertinent information is included.	Some of the pertinent information is included.	Little of the pertinent case information is included.	The presentation lacks pertinent information.	
2. Patient's clinical course: patient's clinical condition and progression of the disease process presented in chronological order.	The clinical course is clearly defined and includes information regarding the patient's clinical condition and progression of the disease process. The information is presented in chronological order.	Most of the clinical course is mostly defined but some clinical condition and progression is missing.	Some aspects of the clinical course are included, but more information is needed regarding the condition and course.	There is significant amount of information regarding the condition and course is missing.	The clinical course is not included in the presentation.	
A. Presentation Content	EXCELLENT 20 points	GOOD 15 points	AVERAGE 10 points	FAIR 5 points	POOR 0 points	JUDGE SCORE
3. Accuracy of diagnosis.	The diagnosis is correct based on the patient's presentation and shared information.	N/A	The diagnosis provided could be considered a differential diagnosis.	N/A	The team missed the diagnosis,	
4. Treatment plan for the patient.	The presentation included an appropriate treatment plan for the patient. All aspects of treatment were included.	Most of the aspects required for appropriate treatment were included in the presentation.	Some of the aspects are included for an appropriate treatment plan for the patient.	Limited aspects of items for an appropriate treatment plan for the patient.	The presentation did not include an appropriate treatment plan for the identified patient.	
B. Presentation Organization	EXCELLENT 10 points	GOOD 8 points	AVERAGE 6 points	FAIR 4 points	POOR 0 points	JUDGE SCORE
1. The presentation organization	The presentation was concise, thorough, and included all key points. The presentation kept the audience's attention.	The information shared was relevant and included most key points. Very few key points were missing.	The presentation was mostly thorough, but some key points were not included.	The presentation was missing a significant number of key points.	The presentation is unclear and does not provide information regarding the patient.	
2. Summary	Summarized all significant points of the case.	The summary included the majority of significant points of the case.	The summary missed some major points of the case.	The summary missed many key points.	The team did not summarize the case during the presentation.	
C. Presentation Delivery	EXCELLENT 5 points	GOOD 4 points	AVERAGE 3 points	FAIR 2 points	POOR 0 points	JUDGE SCORE
1. Voice Pitch, tempo, volume, quality	The competitor's voice was loud enough to hear. To enhance the speech, the competitor varied the rate and volume. Appropriate pausing was employed.	The competitor spoke loudly and clearly enough to be understood. The competitor varied the rate OR volume to enhance the speech. Pauses were attempted.	The competitor could be heard most of the time. The competitor attempted to use some variety in vocal quality, but not always successfully.	Judges had difficulty hearing / understanding much of the speech due to little variety in rate or volume.	The competitor's voice is too low or monotone. Judges struggled to stay focused during the majority of presentation.	

C. Presentation Delivery	EXCELLENT 5 points	GOOD 4 points	AVERAGE 3 points	FAIR 2 points	POOR 0 points	JUDGE SCORE
2. Stage Presence Poise, posture, eye contact, and enthusiasm	Movements & gestures were purposeful and enhanced the delivery of the speech and did not distract. Body language reflects comfort interacting with audience. Facial expressions and body language consistently generated a strong interest and enthusiasm for the topic.	The competitor maintained adequate posture and non-distracting movement during the speech. Some gestures were used. Facial expressions and body language sometimes generated an interest and enthusiasm for the topic.	Stiff or unnatural use of nonverbal behaviors. Body language reflects some discomfort interacting with audience. Limited use of gestures to reinforce verbal message. Facial expressions and body language are used to try to generate enthusiasm but seem somewhat forced.	The competitor's posture, body language, and facial expressions indicated a lack of enthusiasm for the topic. Movements were distracting.	No attempt was made to use body movement or gestures to enhance the message. No interest or enthusiasm for the topic came through in presentation.	
3. Diction*, Pronunciation** and Grammar *Definition of Diction – Choice of words, especially with regard to correctness, clearness, and effectiveness. **Definition of Pronunciation – Act or manner of uttering officially.	Delivery emphasizes and enhances message. Clear enunciation and pronunciation. No vocal fillers (ex: "ahs," "uh/ums," or "you-knows"). Tone heightened interest and complemented the verbal message.	Delivery helps to enhance message. Clear enunciation and pronunciation. Minimal vocal fillers (ex: "ahs," "uh/ums," or "you-knows"). Tone complemented the verbal message	Delivery adequate. Enunciation and pronunciation suitable. Noticeable verbal fillers (ex: "ahs," "uh/ums," or "you-knows") present. Tone seemed inconsistent at times.	Delivery quality minimal. Regular verbal fillers (ex: "ahs," "uh/ums," or "you-knows") present. Delivery problems cause disruption to message.	Many distracting errors in pronunciation and/or articulation. Monotone or inappropriate variation of vocal characteristics. Inconsistent with verbal message.	
C. Presentation Delivery	EXCELLENT 10 points	GOOD 8 points	AVERAGE 6 points	FAIR 4 points	POOR 0 points	JUDGE SCORE
4. Team Participation	This is an excellent example of shared collaboration in the presentation. Both team members spoke and carried equal parts of the presentation.	The team worked well together with the presentation almost equally balanced.	The team worked together relatively well. The presentation could have been more balanced.	The team did not work together as effectively as needed for an effective presentation.	One team member dominated the presentation.	
Total Points (115)						