



New for 2023 - 2024

Clarification about event timing has been added.

These guidelines are written for ILC. States may modify events or have different event processes and deadlines. Be sure to check with your Local/State Advisor (or state website) to determine how the event is implemented for the regional/area or state conference.

Editorial updates have been made.

Event Summary

Biomedical Debate provides members with the opportunity to use debate as a platform for researching the pros and cons of a biomedical issue and showcasing what has been learned. This competitive event consists of 2 rounds and each team consists of 3-4 people. Team members will participate in the Round One written test containing questions about the annual biomedical topic. The teams with the highest average score from the test will qualify for the Round Two debate(s). This event aims to inspire members to be proactive future health professionals by researching a given health topic, evaluating, discussing, and thinking critically about the issue, and refining verbal communication skills surrounding a complex biomedical issue.

Dress Code

Competitors shall wear the HOSA uniform or proper business attire. Bonus points will be awarded for proper dress. All team members must be properly dressed to receive bonus points.

Competitors	Must	Provide

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- ☐ Paper or index cards, to use for note taking by team members (optional)
- ☐ #2 lead pencils (NOT mechanical) with eraser for both rounds
- ☐ Prepared topic materials (per rule #15) for the presentation round in hard copy only

General Rules

- 1. Competitors in this event must be active members of in good standing.
- 2. Eligible Divisions: Secondary and Postsecondary / Collegiate divisions are eligible to compete in this event.
- 3. Competitors must be familiar with and adhere to the "General Rules and Regulations of the HOSA Competitive Events Program (GRR)."
 - A. Per the <u>GRRs</u> and <u>Appendix H</u>, HOSA members may request accommodation in any competitive event. To learn the definition of an accommodation, please read <u>Appendix H</u>. To request accommodation for the International Leadership Conference, <u>submit the request form here</u> by May 15 at midnight EST.

- B. To request accommodation for any regional/area or state level conferences, submit the request form here by your state published deadline. Accommodations must first be done at state in order to be considered for ILC.
- 4. All competitors shall report to the site of the event at the time designated for each round of competition. At ILC, competitor's photo.ID must be presented prior to ALL competition rounds.
- 5. The annual debate topic will be selected each year and will be announced in HOSA publications.

2023 – 2024 Topic: Should Artificial Intelligence in Healthcare be Welcomed or Feared?

Official References

- 6. Competitors are encouraged to learn as much as they can about the annual topic. All test questions will be developed from the following references:
 - A. Gunatilleke, N.J. (2022). *Artificial intelligence in healthcare; Unlocking its potential*. Janak Gunatilleke. (*Note this is a printed book).
 - B. Jain, A., Pathak, A. (2023). <u>Artificial intelligence and its transformative impact on healthcare</u>. Aakash Jain. (*Note this is a printed book).
 - C. Tyson, A., Giancarlo, P., Spencer, A. and Funk, C. (2023, February 22). 60% of Americans would be uncomfortable with provider relying on AI in their own health care. Pew Research. https://www.pewresearch.org/science/2023/02/22/60-of-americans-would-be-uncomfortable-with-provider-relying-on-ai-in-their-own-health-care/.
 - D. Horowitz, B. (2022, December 16). *The current state of AI in healthcare and where it's going in 2023.* Health Tech. https://healthtechmagazine.net/article/2022/12/ai-healthcare-2023-ml-nlp-more-perfcon.
 - E. Kahn, B., Fatima, H., Qureshi, A., Kumar, S., Hanan, A., Hussain, J. Abdullah, S. (2023, February). Drawback of artificial intelligence and their potential solutions in the healthcare sector. National Library of Medicine. https://www.ncbi.nlm.nih.gov/pmc/articles/PMC9908503/
 - F. Health IT Analytics.com. (2022, March 02). Arguing the pros and cons of artificial intelligence in healthcare. Health IT Analytics. https://healthitanalytics.com/news/arguing-the-pros-and-cons-of-artificial-intelligence-in-healthcare

ROUND ONE: The Test

- 7. Round One Test Instructions: Each team will be evaluated in Round One by a fifty (50) item multiple choice written test. Competitors will be given sixty (60) minutes to complete the test.
- 8. **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.
- 9. The team test score average from Round One will be used to qualify the team for Round Two.
- 10. Sample Round One Questions
 - 1. Dr. Kiruba Nagaratnam attributes the successful implementation of the e-Stroke solution by Brainomix in their hospital to the: Nagaratnam pp 48
 - A. intelligent and caring staff.
 - B. relationship and partnership with Brainomix.
 - C. ease of access to AI educational conferences.
 - D. hospital administration encouragement and support.

- 2. What makes it difficult for clinicians to understand and trust AI within the field of neuroscience? Jain & Pathak pp 130
 - A. Al reliance on Brain-Computer Interfaces (BCI)
 - B. Bias in data used to form algorithms
 - C. Intense streamlining of neuroimaging data
 - D. Lack of transparency in the conclusions reached by Al
- 3. In the study by Jordan Richardson, etal, which accessed a patient's apprehension about the use of AI in healthcare, what was the main occupation of the participants? https://www.nature.com/articles/s41746-021-00509-1
 - A. Technology
 - B. Education
 - C. Healthcare
 - D. Business

ROUND TWO - DEBATE ROUND

- 11. Beginning with Round Two, two (2) teams compete against each other.
- 12. The number of teams selected for Round Two is determined by the number of entries and overall conference capacity. Usually 32 secondary and 8 postsecondary/collegiate teams seeded for Round Two at ILC.
 - A. Debate pairings will be posted at a designated time and place.
 - B. Round Two requires a paired match-up. If a team is more than 5 minutes late to their Round Two appointed time, the team forfeits their right to compete in accordance with the <u>GRRs</u>.
- 13. If using the 8 team bracket, the 9th and 10th ranked teams shall be the alternate teams. If using a 16 team bracket, the 17th and 18th ranked teams shall be the two alternate teams. If using a 32 team bracket, the 33rd and 34th ranked teams shall be the two alternate teams.
- 14. ALL teams (including alternate teams) must report to and remain in the holding room until their numbers are called for them to compete.
- 15. Teams will be permitted to bring prepared materials (Containers/folders with notes, printed pages, books and bound materials) to the debate area in *hard copy only*. Props will NOT be allowed.
- 16. Debate teams will draw for the affirmative or negative immediately upon entering the competition room. Teams will have two (2) minutes to prepare prior to the debate.
- 17. The following specific pattern will be followed during the debate:
 - A. **First Affirmative Speaker** (2 minutes). The speaker for the affirmative presents their arguments.
 - 30 second transition time
 - B. **First Negative Speaker** (2 minutes). The speaker for the negative presents their response to the affirmative speaker's arguments
 - 30 second transition time
 - C. **Second Negative Speaker** (2 minutes). The second speaker for negative presents their arguments.
 - 30 second transition time
 - D. **Second Affirmative Speaker** (2 minutes). The second speaker for the affirmative responds to the negative speaker's arguments.
 - 30 second transition time
 - E. **Negative Summary/Rebuttal Speaker** (2 minutes). The negative speaker presents conclusion.
 - 30 second transition time
 - F. Affirmative Summary/Rebuttal Speaker (2 minutes). The affirmative speaker presents conclusion.
 - * Thirty (30) seconds transition time will be allowed between each part of the debate to allow

teams to discuss strategy and for judges to rate the prior performance.

- ** The full time noted above will be provided. If a team chooses not to use any or all of the time allowed, the opposing team shall still have the full amount of time that would have passed. However, the team whose turn it is may choose to begin their segment of the debate when ready, and the timekeeper will give them the amount of time listed above. (A team does not receive extra time for starting early.)
- *** There will NOT be a time warning given during the debate transitions. It is the responsibility of the competitor to manage their time.
- 18. A timekeeper will keep time for each part of the debate and will call time at the end of the maximum amount of time allowed. Speakers must immediately stop speaking when time is called.
 - ****Competitors are not allowed to use a timing device of any kind during the debate. Participants should practice their parts to make sure that they are within the time frames and must rely solely on the time warning provided by the timekeeper.
- 19. Teams are permitted to discuss and write notes with each other during all parts of the debate, however, table decorum will be evaluated on the rating sheet with the intent that teams will conduct themselves in a professional manner without distracting the other team. Paper is allowed for note taking.
- 20. At least three (3) team members must speak in the debate.
- 21. All members of the winning teams of each match, must return to the holding room until recalled. Waiting winning teams are not allowed to communicate with other teams.

Final Scoring

- 22. The test score from Round One will be used to qualify the team for Round Two, and will NOT be used as part of the final score.
- 23. In case of a tie during the paired matchups, the highest averaged test score will be used to determine which team advances in the bracket and/or final rank if needed.

BIOMEDICAL DEBATE ROUND TWO – **RATING SHEET**

Section #	Judge's Signature		
Team #	Division: SS PS		

1. First Aff	irmative Speech						
	Excellent	Good	Average	Fair	Poor	JUDGE	JUDGE
	10 points	8 points	6 points	4 points	0 points	SCORE - A	SCORE - N
A. Arguments &	The arguments & evidence	The arguments &	The arguments & evidence	The arguments & evidence are			
Evidence	clearly expresses the	evidence mostly	somewhat express the team's	slightly persuasive.	persuasive or there is not		
(Persuasiveness)	team's viewpoint in a	expresses the team's	viewpoint and provides	0 , ,	an argument presented		
	highly persuasive manner.	viewpoint and provides	moderately persuasive				
		responses that are	responses.				
		persuasive.					
	Excellent	Good	Average	Fair	Poor	JUDGE	JUDGE
	5 points	4 points	3 points	2 points	0 points	SCORE - A	SCORE - N
B. Flow & Logic	The content of the speech	The content of the speech	The speech flows moderately	The speech has an	The speech does not flow		
of speech	flows smoothly, is	flows smoothly and	smoothly and makes sense most	inconsistent flow and makes	or make logical sense.		
•	thoughtfully constructed	makes sense.	of the time.	sense some of the time.			
	and makes logical sense.						
C. Relevance of	All arguments were	Majority of arguments	Some of the arguments were	Arguments were not accurate	No arguments were		
arguments	accurate, relevant to topic	were accurate, relevant to	accurate, relevant to topic and	and/or relevant to topic. Was	made. Unable to defend		
	and strong. Was able to	topic and strong. Was	strong. Was somewhat able to	unable to defend position.	position.		
	defend position.	able to defend position.	defend position.				
2. First Nega	tive Speech						
	Excellent	Good	Average	Fair	Poor	JUDGE	JUDGE
	15 points	12 points	9 points	6 points	0 points	SCORE - A	SCORE - N
	All counterarguments were	Majority of	Some of the counterarguments	Counterarguments were not	No counterarguments		
A. Arguments &	accurate, relevant to topic	counterarguments were	were accurate, relevant to topic	accurate and/or relevant to	were made. Unable to		
Evidence	and strong. Was able to		and strong. Was somewhat able	topic. Was unable to defend	defend position.		
	accurately defend position.	and strong. Was able to	to defend position.	position.			
		defend position.					
3. Second I	legative Speech		_				
	Excellent	Good	Average	Fair	Poor	JUDGE SCORE - A	JUDGE
	10 points	8 points	6 points	4 points	0 points	SCORE - A	SCORE - N
A. Arguments &	The arguments & evidence	The arguments &	The arguments & evidence	The arguments & evidence are			
Evidence	clearly expresses the	evidence mostly	somewhat express the team's	slightly persuasive.	persuasive or there is not		
(Persuasiveness)	team's viewpoint in a highly	expresses the team's	viewpoint and provides		an argument presented		
	persuasive manner.	viewpoint and provides	moderately persuasive				
		responses that are	responses.				
		persuasive.					

flows smoothly, is oughtfully constructed dmakes logical sense. All arguments were curate, relevant to topic d strong. Was able to defend position. mative Speech Excellent 15 points counterarguments were curate, relevant to topic defend position.	Good 12 points Majority of counterarguments were accurate, relevant to topic and strong. Was able to defend position. Good 4 points	Average 3 points The speech flows moderately smoothly and make sense most of the time. Some of the arguments were accurate, relevant to topic and strong. Was somewhat able to defend position. Average 9 points Some of the counterarguments were accurate, relevant to topic and strong. Was somewhat able to defend position.	Fair 2 points The speech has an inconsistent flow and makes sense some of the time. Arguments were not accurate and/or relevant to topic. Was unable to defend position. Fair 6 points Counterarguments were not accurate and/or relevant to topic. Was unable to defend position.	O points The speech does not flow or make logical sense. No arguments were made. Unable to defend position. Poor O points No counterarguments were made. Unable to defend position.	JUDGE SCORE - A	JUDGE
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	Good 4 points	_	Fair	Poor	IUDGE	
	Good 4 points	_	Fair	Poor	IIIDGE	
	Good 4 points	_	Eair	Poor	IIIDGE	
	4 points	_	I all			JUDGE
5 points		3 points	2 points	0 points	SCORE - A	SCORE - N
e negative rebuttal was	The negative rebuttal was		Not enough evidence was used			
ear and highlighted the	effective	negative rebuttal was mediocre.	in the negative rebuttal.	provided in the negative		
point of view with	0.100.170	nogativo robattar was modicoro.	in the negative resultan	rebuttal.		
confidence.				. oz attali		
e negative rebuttal was		The negative rebuttal reiterated		No negative rebuttal was		
clear and significantly	N1/A	the position but did not add		provided.		
engthened the negative	N/A	anything to the argument.	N/A	·		
point of view		, 5				
ebuttal was articulately	The rebuttal offered good	The rebuttal offered mediocre	Little relevancy was offered in	No rebuttal was offered or		
ated and offered strong	research and supported	researched data to support the	the rebuttal. More	the rebuttal was not		
evant, researched data	the argument.	argument.	data/supporting information	relevant to the topic.		
support the argument.			needed to support the point.			
ummary/Rebuttal	Speech					
Excellent	Good	Average	Fair	1 001		JUDGE
5 points	4 points		2 points	0 points	SCORE - A	SCORE - N
ne attirmative rebuttal						
s clear and highlighted					1	
		The affirmative rebuttal reiterated		No affirmative rebuttal		
is clear and highlighted the point of view with						
s clear and highlighted the point of view with confidence. he affirmative rebuttal				p	1	
as clear and highlighted the point of view with confidence. he affirmative rebuttal s clear and significantly	NIA	the position but did not add	21/2			
s clear and highlighted the point of view with confidence. he affirmative rebuttal	N/A		N/A			
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	Excellent	Good	Avorago	Fair	Poor	JUDGE	JUDGE
		0000	Average			SCORE - A	
	5 points	4 points	3 points	2 points	o ponits		OOOKL I
C. Relevance of	Rebuttal was articulately	The rebuttal offered good	The rebuttal offered mediocre	Little relevancy was offered in			
rebuttal	stated and offered strong	research and supported	researched data to support the	the rebuttal. More	the rebuttal was not		
	relevant, researched data	the argument.	argument.	data/supporting information	relevant to the topic.		
	to support the argument.			needed to support the point.			
7. Overall Del	bate Qualities (AFFIR	RMATIVE)					
	Excellent	Good	Average	Fair	Poor	JUDGE	JUDGE
	5 points	4 points	3 points	2 points	0 points	SCORE - A	SCORE - N
A. Voice	Each competitor's voice	Each competitor spoke	Each competitor could be heard	Judges had difficulty hearing	The competitor's voice is		
Pitch,	was loud enough to hear.	loudly and clearly enough	most of the time. The competitors		too low or monotone.		
tempo,	The competitors varied rate	to be understood. The	attempted to use some variety in	speech due to little variety in	Judges struggled to stay		
volume,	& volume to enhance the	competitors varied rate	vocal quality, but not always	rate or volume.	focused during the		
quality	speech. Appropriate	OR volume to enhance	successfully.		majority of presentation.		
' '	pausing was employed.	the speech. Pauses were	ĺ		' ' '		
		attempted.					
B. Stage	Movements & gestures	The competitors	Stiff or unnatural use of nonverbal	Most of the competitor's	No attempt was made to		
Presence	were purposeful and	maintained adequate	behaviors. Body language reflects	posture, body language, and	use body movement or		
Poise,	enhanced the delivery of	posture and non-	some discomfort interacting with	facial expressions indicated a	gestures to enhance the		
posture, eye	the speech and did not	distracting movement	audience. Limited use of gestures	lack of enthusiasm for the topic.	message. No interest or		
contact, and	distract. Body language	during the speech. Some	to reinforce verbal message.	Movements were distracting.	enthusiasm for the topic		
enthusiasm	reflects comfort interacting	gestures were used.	Facial expressions and body		came through in		
	with audience. Facial	Facial expressions and	language are used to try to		presentation.		
	expressions and body	body language sometimes	generate enthusiasm but seem				
	language consistently	generated an interest and					
	generated a strong interest	enthusiasm for the topic.					
	and enthusiasm for the	·					
	topic.						
C. Diction*,	Delivery emphasizes and	Delivery helps to enhance	Delivery adequate. Enunciation	Delivery quality minimal.	Many distracting errors in		
Pronunciation**	enhances message. Clear	message. Clear	and pronunciation suitable.	Regular verbal fillers (ex: "ahs,"	pronunciation and/or		
and Grammar	enunciation and	enunciation and	Noticeable verbal fillers (ex:	"uh/ums," or "you-knows")	articulation. Monotone or		
	pronunciation. No vocal	pronunciation. Minimal	"ahs," "uh/ums," or "you-knows")	present. Delivery problems	inappropriate variation of		
	fillers (ex: "ahs," "uh/ums,"	vocal fillers (ex: "ahs,"	present. Tone seemed	cause disruption to message.	vocal characteristics.		
	or "you-knows"). Tone	"uh/ums," or "you-	inconsistent at times.	,	Inconsistent with verbal		
	heightened interest and	knows"). Tone			message.		
	complemented the verbal	complemented the verbal			_		
	message.	message					
	Excellent	Good	Average	Fair	Poor	JUDGE	JUDGE
	5 points	4 points	3 points	2 points	0 points	SCORE - A	SCORE - N
D. Decorum,	All statements and	N/A	Most statements and responses		Decorum was not		
professional	responses were respectful		were respectful. Seldom		professional. Statements		
behavior toward	and appropriate. Decorum		interrupted or talked over other		and responses were		
other team	was professional toward		team members.		consistently not		
	the other team.				respectful. Interrupted or		
				N/A	talked over other team		
				IN/A	members.		

7. Overall De	bate Qualities (AFFIR	RMATIVE) Cont'd					
	Excellent	Good	Average	Fair	Poor	JUDGE	JUDGE
	5 points	4 points	3 points	2 points	0 points	SCORE - A	SCORE - N
E. Team Participation	Excellent example of shared collaboration. Three team members spoke, demonstrating equal knowledge of the topic.	Most team members were actively engaged in the debate and appeared to be knowledgeable on the topic.		The team did not work effectively together.	One team member dominated the debate.		
8. Overall Debate Qualities (NEGATIVE)							
	Excellent	Good	Average	Fair	Poor	JUDGE	JUDGE
	5 points	4 points	3 points	2 points	0 points	SCORE - A	SCORE - N
A. Voice Pitch, tempo, volume, quality	Each competitor's voice was loud enough to hear. The competitors varied rate & volume to enhance the speech. Appropriate pausing was employed.	Each competitor spoke loudly and clearly enough	Each competitor could be heard most of the time. The competitors attempted to use some variety in vocal quality, but not always successfully.	Judges had difficulty hearing /understanding much of the	The competitor's voice is too low or monotone. Judges struggled to stay focused during the majority of presentation.		
B. 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.	posture and non- distracting movement during the speech. Some		posture, body language, and facial expressions indicated a	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.		
C. Diction*, Pronunciation** and Grammar	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 "youknows"). Tone complemented the verbal message		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.		

8. Overall Debate Qualities (NEGATIVE) Cont'd										
	Excellent 5 points	Good 4 points	Average 3 points	Fair 2 points	Poor 0 points		JUDGE SCORE - N			
D. Decorum, professional behavior toward other team	All statements and responses were respectful and appropriate. Decorum was professional toward the other team.	N/A	Most statements and responses were respectful. Seldom interrupted or talked over other team members.	N/A	Decorum was not professional. Statements and responses were consistently not respectful. Interrupted or talked over other team members.					
	Excellent 5 points	Good 4 points	Average 3 points	Fair 2 points	Poor 0 points		JUDGE SCORE - N			
E. Team Participation	Excellent example of shared collaboration. Three team members spoke, demonstrating equal knowledge of the topic.	Most team members were actively engaged in the debate and appeared to be knowledgeable on the topic.	The team worked together relatively well. Some team members appeared more knowledgeable than others.	The team did not work effectively together.	One team member dominated the debate.					
9.Overall Del	pate Winner									
	10 points				0 points		JUDGE SCORE - N			
Debate Winner	10 points awarded to the winner of the debate.	N/A	N/A	N/A	0 points awarded to the losing debate team					
				AFFIRMATIVE TOTA						
	NEGATIVE TOTAL POINTS (85):									

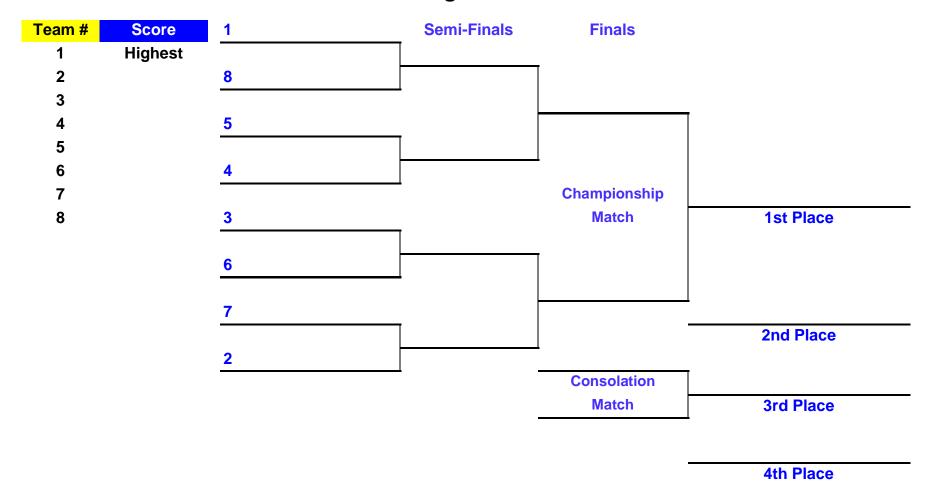
^{*}Definition of Diction – Choice of words especially with regard to correctness, clearness, and effectiveness.
**Definition of Pronunciation – Act or manner of uttering officially.

BIOMEDICAL DEBATE BRACKET SUMMARY SCORESHEET

Due to the bracketed nature of this round two event, this Summary Scoresheet will be used to calculate the total judge scores for the Affirmative and Negative Teams in each paired matchup. Each judge score should be recorded below, and then the team's average score calculated. The team with the highest average score will be deemed the winner of the paired matchup and will advance to the next paired matchup, following the schedule of the posted bracket.

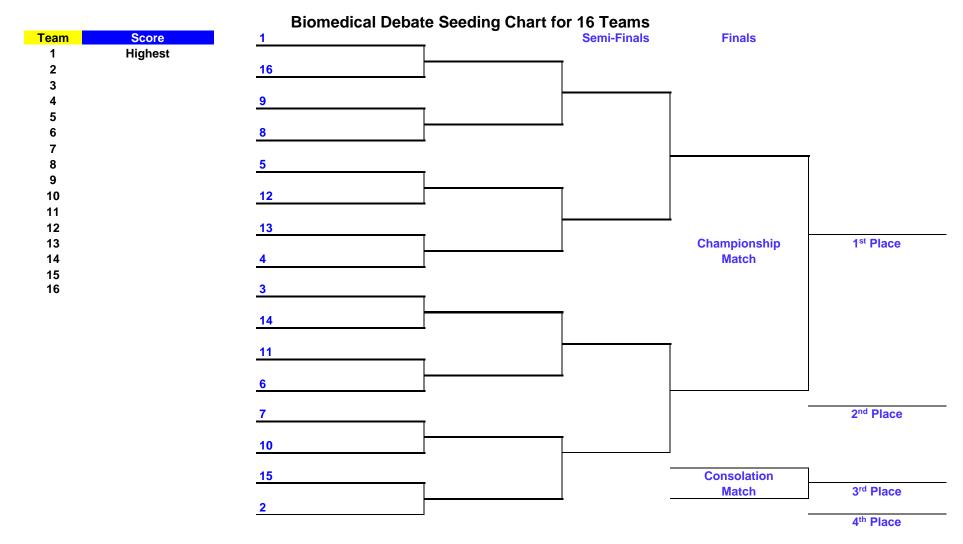
Round:	_ Section	AFFIRMATIVE	ATIVE = TEAM ID # NEGATIV		'E = TEAM ID #				
AFFIRMATIVE TEAM ID	JUDGE #1 SCORE	JUDGE #2 SCORE	JUDGE #3 SCORE	TOTAL AVERAGE SCORE FOR AFFIRMATIVE					
					WINNING TEAM (check one)				
					Affirmative Team				
NEGATIVE TEAM ID	JUDGE #1 SCORE	JUDGE #2 SCORE	JUDGE #3 SCORE	TOTAL AVERAGE SCORE FOR NEGATIVE	Negative Team				
Winning Team = ID#									
Judge's Printed Name and Signature:									

Biomedical Debate Seeding Chart for 8 Teams



Instructions: Add the scores of team members to arrive at a team total, and then divide by the number of team members to get the team average. Sort team averages from highest to lowest scores. The team with the highest score after the test is seeded #1, the team with the next highest score is seeded #2, and so on until the chart is filled with the top 8 teams.

Note: The electronic version of the Biomedical Debate seeding process is available at the <u>CE Useful Tools</u> page.



Instructions: Add the scores of team members to arrive at a team total, and then divide by the number of team members to get the team average. Sort team totals from highest to lowest scores. The team with the highest score after the test is seeded #1, the team with the next highest score is seeded #2, and so on until the chart is filled with the top 16 teams. The winners of each bracket play for 1st and 2nd place, the winner of the consolation match is the 3rd place team.

Note: The electronic version of the Biomedical Debate seeding process is available at the CE Useful Tools page.

Biomedical Debate Seeding Chart for 32 Teams

