

# Medical Innovation



## ***New for 2016-2017***

*The Medical Innovation event has been changed to allow participating competitors to select from one of two tracks: Medical Innovation – Original or Medical Innovation - Advancement. The two tracks will be judged using separate rating sheets. The event finalists and event winners will be awarded for both tracks. A Works Cited page is now required, according to the HOSA Style Sheet included in these guidelines. Attendance during Project Display Time is now required.*

**Purpose:** To encourage HOSA members to analyze up-and-coming technologies in health that relate to science, computers, engineering, biotechnology, math, and/or the delivery of healthcare, and to share their understanding with others. Two tracks are available to participants. Competitors can select from Medical Innovation – Original or Medical Innovation – Advancement.

**Description:** Teams consisting of two to four (2-4) competitors shall develop a visual display and/or demonstration of an aspect of a medical innovation to be presented to the judges. Competitors will be judged on their understanding and insight into the use and value of the medical innovation, as well as their ability to present themselves and communicate the use of a medical innovation.

**Dress Code:** Competitors must be in official HOSA uniform or in proper business attire. Bonus points will be awarded for [proper dress](#). All team members must be properly dressed to receive bonus points.

- Rules and Procedures**
1. Competitors in this event must be active members of HOSA in good standing in the division in which they are registered to compete (Secondary or Postsecondary/Collegiate).
  2. Competitors must be familiar with and adhere to the [“General Rules and Regulations of the National HOSA Competitive Events Program \(GRR\).”](#)
  3. The medical innovation must be presented by a team of two to four (2-4) HOSA members.

### **The Medical Innovation**

4. TOPIC OPTIONS: The team will choose one of TWO options. They can either create an original innovation of their own design, OR, choose an emerging medical innovation to research. They will learn everything they can about their own design or chosen innovation, and then demonstrate and/or teach the judges about the innovation.
  - A. MEDICAL INNOVATION - ORIGINAL: For this option, teams will create their own, original medical innovation. The innovation must be their own idea and design and include a prototype that could lead to an advancement in the delivery of healthcare. HOSA does not provide patents for this option.
  - B. MEDICAL INNOVATION - ADVANCEMENT: For this option, teams should select a topic that demonstrates something new, original, and/or important in medicine or the delivery of healthcare. A replica must be included. Research strands could include and are not limited to:

- Medical or healthcare innovation
- Emerging technologies in health
- Advances in medicine

Two websites that include possible topic information are:

- [The Global Center for Health Innovation](#)
- [The Medical Innovation Summit](#)

5. The judging will be held in a large space with rows of tables, one table per team. Tables will be 6 - 8 feet long, and between 18" – 40" wide. All teams will have the same size table. Displays must fit on this table without hanging off, as the next table may be in very close proximity.
6. Teams will decide what to include on their display table, however, everything must fit on the tabletop and not extend over the sides of the table or under the table. Teams may take things off the display to show the judges and utilize the space around the display, as long as they do not encroach on an equal distance from the next display.
7. The team will have fifteen (15) minutes to assemble their innovation and overall table display. The innovation and any associated materials needed to explain the innovation will be created prior to competition. The time for assembly is to set up what the team has previously created in preparation for their presentation to the judges.
8. Teams should assemble materials so that the overall display can stand-alone. Anyone viewing the innovation display materials should be able to have a general idea of the medical innovation without having someone there to speak about it.
9. Any sources used for data or information should be published on a Works Cited page, attached to the back of the display or on the table, according to the HOSA Style sheet included in these guidelines.

### The Competitive Process

10. Electricity will not be provided. Teams **MUST** use battery power instead of electricity for their displays if power is required.
11. Competitors are responsible for the safety and proper functioning of all equipment they bring to this event. Teams *may not* use any flames, body fluids, living organisms, sharps, any equipment/materials, simulated or otherwise, that could expose anyone to risk of bodily harm or danger. Invasive procedures and skin puncturing of any kind are **prohibited**.
12. No equipment/supplies (except tables) will be provided by National HOSA for this event. All equipment/supplies needed must be provided by the team. No Wi-Fi or internet service will be provided.
13. The team will report back to their innovation at their assigned appointment time to present a seven (7) minute prepared oral presentation to the judges. Note cards are permitted during the oral presentation. Electronic notecards (on a tablet, smart phone, laptop, etc.) are also permitted, but may not be shown to judges. The presentation will explain, teach and demonstrate the medical innovation to the judges. The presentation may include why the team chose this innovation, how it is used, its benefits, value, costs, training requirements, and career implications. The

goal will be to deliver an engaging presentation that teaches the judges about an emerging health innovation.

14. Each team will be judged on their overall innovation and on their ability to communicate information to the judges about the need for their chosen innovation. During the seven (7) minute prepared presentation, time cards will be shown with one (1) minute remaining and time will be called at the end of the 7 minutes.
15. At the conclusion of the seven (7) minute prepared oral presentation, judges will have two (2) minutes to ask questions of the competitors. The timekeeper will notify teams when one minute (1) remains and notify the judges when these two (2) minutes have ended.
16. In the event of a tie, a tiebreaker will be determined by the areas on the rating sheet section(s) with the highest point value in descending order.
17. All competitors in this event at the International Leadership Conference are **required** to attend the HOSA Project Display time for this event. Team members will stand with their innovation and share event experiences with conference delegates. Team members will take their innovations at the conclusion of the Project Display time.

**Competitor Must Provide:**

- Event guidelines – one per team (orientation)
- Innovation and any associated materials/display items, including the Works Cited page
- All audio visual equipment needed
- Index cards or electronic notecards for presentation (optional)
- Plain, white cloth table drape (optional)

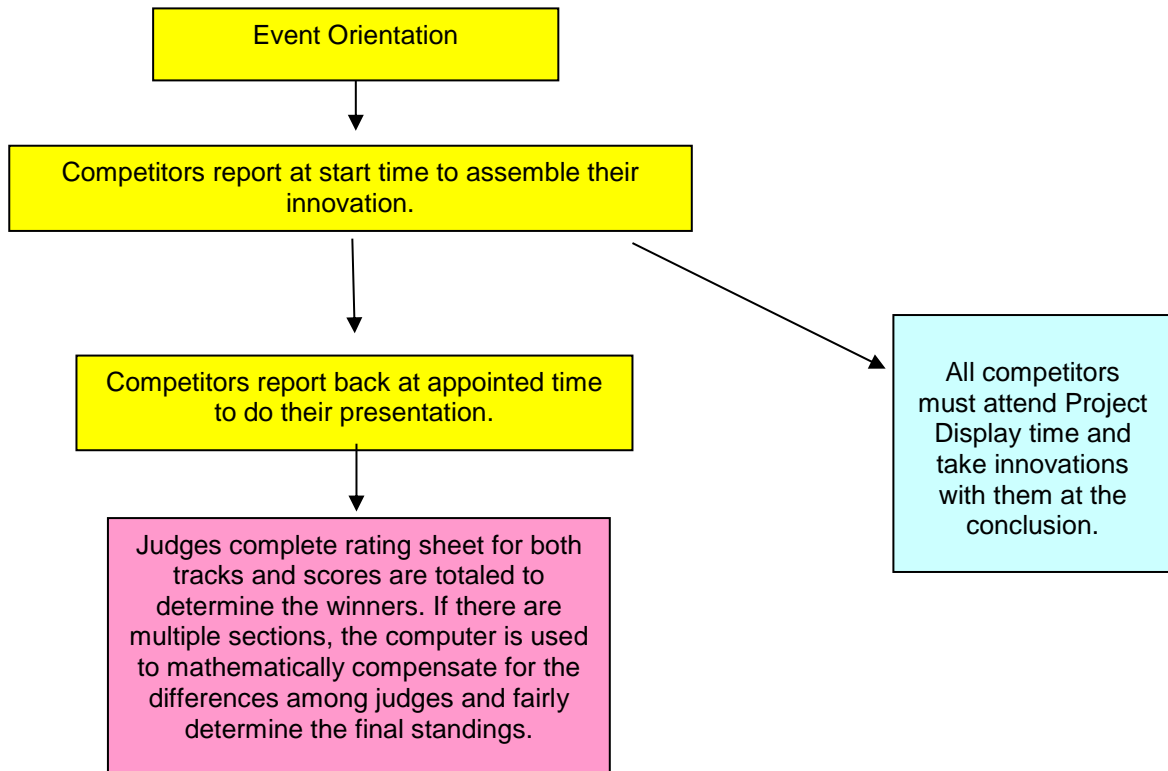
**Required Personnel (Per Section):**

- One Event Manager per event
- One Section Leader per section
- One Timekeeper per section
- One-two Judges per section – one should be a health professional.
- One-two event assistants per section
- One QA to provide quality assurance for the event by ensuring that the guidelines are followed and all event documents are complete.





**Facilities, Equipment and Materials Checklist (Per Section):**

- One table per team (6' or 8' tables or round tables) usually placed in one long row per section.
- Two - three chairs per display or table (for judges during the competitor presentation.)
- Calculators (if needed), clip board and pencils for judges
- Team numbers for tables
- Competitor lists by team/school for EM, QA, Section Leaders & Timekeepers
- Stopwatches- one per section
- Rating sheets – one per judge per team
- Evaluation Forms – competitor, judge, and personnel
- #2 lead pencils with eraser to complete evaluations
- Flash card for 1 minute remaining
- Copy of guidelines for judges

## Event Flow Chart



## Icon Key

	Team event – Minimum and maximum (if greater than 2) number of team members.
	Plagiarism or copyright violation is prohibited.
	A computer is used at the ILC to provide a statistically fair method for balancing scores when multiple sections are scheduled.
	At the ILC, a project display time is required for this event.



## HOSA Style Sheet, Adapted from APA style

This style sheet is designed to make it easier for the HOSA member in events that require APA formatting and references. Since the American Psychological Association (APA) is the most commonly used resource in the health sciences, this information is modified from the APA style. More information may be found at <https://owl.english.purdue.edu/owl/resource/560/01/>.

*Your references should be double-spaced. This page is single spaced to save space.*

### Reference Guidelines

Your ONE PAGE 'References' title should be centered and sources alphabetized by the author's last name, first initial from the left margin. Hanging indents should be used for sources requiring multiple lines. Alphabetize anonymous authors according to the first main word in the title. See examples below:

#### Book by Two or More Authors

Wischnitzer, S., & Wischnitzer, E. (2005). *Top 100 health care careers: Your complete guidebook to training and jobs in allied health, nursing, medicine, and more (2<sup>nd</sup> ed.)*. Indianapolis, IN: Jist Publishing.

#### Format of On-Line Entries\*

Author or editor last name, first initial. (year, month date posted). Article or web page title. *Book, journal or website title*. Printed version information or volume (issue number), pages if applicable. Retrieved from <DOI or http information>.

#### Example: Web Site (Professional)

ESPN.com. (1999, Nov 10). *ESPN Internet Ventures*. Retrieved from <http://espn.go.com>.

#### Example: Article from a Professional Journal Online

Sitzler, B. (2015). Taking helmets off: To decrease risk. *NATA News*, 27(10), 12-14. Retrieved from <http://digital.ipcprintservices.com/publication/?i=&p=&l=&m=14775&l=1&ver=&pp>.

**\*Note:** If you do not have a section of information for an internet reference, move up the URL or to the home page to find it. If it is not there, just skip it and move to the next piece of information. If there is no date listed, use (n.d.). Be sure you gather as much information possible for the above format.

# Medical Innovation- Original JUDGE'S RATING SHEET

Section # \_\_\_\_\_ Team # \_\_\_\_\_

Division: \_\_\_\_\_ SS \_\_\_\_\_ PS/Collegiate

Judge's Signature \_\_\_\_\_

Items Evaluated	Points Possible						Points Awarded
	Superior	-----	Poor				
1. <b>Display Table</b> <i>A. Information / Content</i> Display contains elements of information that enhance the verbal explanation (such as data charts, key vocabulary, descriptions, bullet points) A prototype must be included.	15	12	9	6	3	0	
<i>B. Appearance</i> Display is neat, organized, and free from errors. Information is easy to follow with a logical flow.	5	4	3	2	1	0	
<i>C. Creativity</i> There are elements of innovation and eye-catching design that make the display unique. It stands out in the room.	5	4	3	2	1	0	
2. <b>Team Members and Presentation</b> <i>A. Information/content</i> Information presented was organized, clear, and included sufficient details. Presenters clearly had a command of the knowledge.	15	12	9	6	3	0	
<i>B. All team members took active role</i>	5	4	3	2	1	0	
<i>C. Presentation Style</i> Voice (volume/grammar), poise, eye contact, gestures, and enthusiasm for the invention.	5	4	3	2	1	0	
<i>D. Answered judge questions effectively</i>	5	4	3	2	1	0	
3. <b>Health Information</b> <i>A. Design</i> The invention was well designed and understood. Invention presented was comprehensive and challenging. A Works Cited page must be included.	20	16	12	8	4	0	
<i>B. Relevance</i> The invention would have a positive impact on healthcare, quality of life, or reducing care costs.	10	8	6	4	2	0	
<i>C. Overall effectiveness of display and team members</i> The display and presentation leaves people excited about the innovation's potential to improve the delivery of healthcare.	10	8	6	4	2	0	
4. <b>Points Assigned by Event Personnel:</b>  Team participated in Display Time	5					0	
<b>TOTAL POINTS</b>	<b>100</b>	-----				<b>0</b>	

## Medical Innovation- Advancement JUDGE'S RATING SHEET

Section # \_\_\_\_\_ Team # \_\_\_\_\_

Division: \_\_\_\_\_ SS \_\_\_\_\_ PS/Collegiate

Judge's Signature \_\_\_\_\_

Items Evaluated	Points Possible						Points Awarded
	Superior	-----	-----	-----	-----	Poor	
1. <b>Display Table</b> <i>A. Information / Content</i> Display contains elements of information that enhance the verbal explanation (such as data charts, key vocabulary, descriptions, bullet points) A replica must be included.	15	12	9	6	3	0	
<i>B. Appearance</i> Display is neat, organized, and free from errors. Information is easy to follow with a logical flow.	5	4	3	2	1	0	
<i>C. Creativity</i> There are elements of innovation and eye-catching design that make the display unique. It stands out in the room.	5	4	3	2	1	0	
2. <b>Team Members and Presentation</b> <i>A. Information/content</i> Information presented was organized, clear, and included sufficient details. Presenters clearly had a command of the knowledge.	15	12	9	6	3	0	
<i>B. All team members took active role</i>	5	4	3	2	1	0	
<i>C. Presentation Style</i> Voice (volume/grammar), poise, eye contact, gestures, and enthusiasm for the selected innovation	5	4	3	2	1	0	
<i>D. Answered judge questions effectively</i>	5	4	3	2	1	0	
3. <b>Health Information</b> <i>A. Research</i> The innovation was well researched and understood. Information presented was comprehensive and challenging. A Works Cited page must be included.	20	16	12	8	4	0	
<i>B. Relevance</i> The invention would have a positive impact on healthcare, quality of life, or reducing care costs.	10	8	6	4	2	0	
<i>C. Overall effectiveness of display and team members</i> The display and presentation leaves people excited about the innovation's potential to improve the delivery of healthcare.	10	8	6	4	2	0	
4. <b>Points Assigned by Event Personnel:</b>  Team participated in Display Time	5					0	
<b>TOTAL POINTS</b>	<b>100</b>	-----	-----	-----	-----	<b>0</b>	