

Medical Innovation – Original

New for 2017-2018

The two event tracks for Medical Innovation for 2017-2018 will be: “Medical Innovation-Original” or “Medical Innovation – Existing”. There are separate guidelines for each event. Display dimension requirements have been added as well as a ninety (90) second video demonstration to be uploaded to STEM Premier by May 15th.

- Purpose** To encourage HOSA members to create an original medical innovation that is certain to have a dramatic impact on the future of health and or the delivery of healthcare, and to share their innovation understanding and outcomes with others. This event includes new or improved medical technology, innovative products, devices, medical apps and other inventions and findings that may influence global health care.
- Disclaimer** If a competitor is interested in obtaining a patent for his/her original work, it is the responsibility of the competitor. More information on how to file a US patent may be found at <https://www.uspto.gov/patent>. HOSA does not provide patent protection for this event.
- 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 also create a 90 second video demonstration of their innovation to be uploaded to STEM Premier by May 15th. Competitors will be judged on their understanding and insight into the use and value of the medical innovation; the originality of their developed innovation; as well as their ability to present themselves and communicate the use and value of this 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 HOSA Competitive Events Program \(GRR\).”](#)
 3. The original medical innovation must be presented by a team of two to four (2-4) HOSA members.
- The Medical Innovation**
4. The team will create an original innovation of their own idea and design. The innovation should be something that could lead to an advancement in medicine or the delivery of healthcare. They will include a prototype of the innovation, provide supporting evidence for why this innovation is needed, and then demonstrate and/or teach the judges about their vision for this innovation.
 5. Topics could include, but are not limited to:
 - Medical or healthcare innovation
 - Emerging technologies in health
 - Advances in medicine

Two websites that may provide useful information are:

- [The Global Center for Health Innovation](#)
- [The Medical Innovation Summit \(held October of each year\)](#)

6. Teams will create a video demonstration of their innovation. The video demonstration should be 90 seconds max showcasing the innovation and its inventor(s). No need for music, graphics, special effects, or text. Video must include competitor's names, HOSA chapter & division, ages, hometown, and name of innovation. Video must explain how the innovation works and show it in action using the prototype created. You can view a sample video here: <https://www.youtube.com/watch?v=oNhlQHHdwoQ&feature=youtu.be>. The video will be uploaded to STEM Premier (see below for instructions).
7. There will be one or two teams per table. Once positioned on the table with three-dimensional display items, the maximum dimensions are:

HEIGHT: 36 inches WIDTH: 48 inches DEPTH: 24 inches

The display will be measured by the Section Leader or Event Manager before judging begins, from a beginning point to the furthest point of the display.
 - a. Height will be measured from the tabletop to the highest point of anything on the display.
 - b. Width will be measured from the widest point of anything on the display to the opposite point.
 - c. Depth will be measured from the deepest point of anything on the display to the opposite point.
 - d. Nothing may overlap the sides of the display table, with the exception of the table drape.
 - e. Dimensions include models, mannequins and all other display items.
 - f. Display will be submitted in English for judging.
8. 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. 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.
9. 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.
10. 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.
11. Any sources used for data or information collection should be published on a References page, attached to the back of the display or on the table, according to the HOSA Style sheet included in these guidelines.
12. Electricity will not be provided. Teams MUST use battery power instead of electricity for their displays if power is required. Any noise (bells, alarms, etc...) used in display/presentation must not interfere with neighboring displays/presentations.

13. 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**.
14. No equipment/supplies (except tables) will be provided by HOSA-Future Health Professionals for this event. All equipment/supplies needed must be provided by the team. No Wi-Fi or internet service will be provided.

The Competitive Process

15. 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. 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.
16. The presentation will explain, teach and demonstrate the medical innovation to the judges. The presentation may include why the team created 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 the competitor's original innovation. 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.
17. 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.
18. 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.
19. 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.
20. By entering this event, the competitor grants permission for photos of his/her display to be used in HOSA publications and on the HOSA website. Displays must be picked up by competitors as instructed. Any displays not picked up within the given timeframe will become property of HOSA-Future Health Professionals.

Uploading to STEM Premier

The competitor must create a profile on STEM Premier, an online platform that showcases talent and skills and brings students, colleges, companies, and possibilities together. Competitors will create their online profile by visiting – www.stempremier.com/hosa.

- a) The main purpose for the partnership with STEM Premier is two-fold: (1) to provide the HOSA member with a permanent, professional online portfolio to share with universities and future employers and (2) to obtain valuable analytical membership data for HOSA, including demographic, academic, and career

interest information. Entities, outside of HOSA, CANNOT access this information without explicit member permission.

- b) Competitors must create a profile and upload a link to their video demonstration to the **Medical Innovation-Original** competitive event opportunity on STEM Premier. Detailed instructions for doing this are in step g below or available at www.hosa.org/STEMPremier.
- c) Regional and State Process:
 - 1. Competitors should check with their state advisor to see if STEM Premier is being used at the state level. If so, competitors should find out the deadlines for any regional or state conferences.
 - 2. The link to the video demonstration must be uploaded prior to the state published deadlines.
 - 3. States will verify the link to the video demonstration has been uploaded prior to any regional or state conferences.
- d) ILC Process:
 - 1. For those who advance to the ILC, the link to the video demonstration must be uploaded to STEM Premier by May 15, 2018.
 - 2. HOSA-Future Health Professionals will verify the link to the video demonstration has been uploaded prior to the International Leadership Conference.
- e) Changing Content:
 - 1. If a competitor uploads the link to the video demonstration for the regional and/or state level, it does not need to be resubmitted for ILC. Uploading the link to the video demonstration ONCE is sufficient for all three levels of competition (regional, state, ILC).
 - 2. **However**, competitors ARE allowed to change the content of their link to the video demonstration between conferences. IF such content changes are made, competitors should replace their original upload on STEM Premier with the most current version of their link to the video demonstration.
 - 3. The link to the video demonstration that is in STEM Premier on May 15, 2018 is considered final and may be used for judging at ILC 2018.
- f) STEM Premier Instructions
 - 1. Join STEM Premier-
 - a. Go to www.stempremier.com/hosa.
 - b. Click the "Start Your Free Profile" button and create your account.
 - c. Add HOSA to your profile-
 - i. Click the white "Profile" tab at the top left of the screen.
 - ii. Click the blue "Edit Profile" button at the top right of the screen (underneath where your profile picture is located).
 - iii. Select "Associations" from the bar on the left side of the screen.
 - iv. Search for and add "HOSA-Future Health Professionals".
 - 2. Search for HOSA Competitive Event-
 - a. Select "Opportunities" at the top of your screen when logged in.
 - b. In the "Organization Name" search box type in "HOSA"; wait for the list of pre-populated organizations to appear, and then select your state association from the drop-down box (Example: HOSA-Future Health Professionals | California). Click the blue "Search" box.
 - c. Select your competitive event from the list that appears to the right (Make sure that you have selected the proper state!).
 - 3. Submit Materials and Apply for Competitive Event-
 - a. Follow the steps and provide required information for your event.
 - b. Click "Apply Now" when ready to submit.

- c. You have until the state deadline (contact state advisor) or ILC deadline (May 15, 2018) to change any content and re-upload your submissions. The material in STEM Premier as of May 15, 2018 is considered final for ILC.
- d. To edit your submission-
 - i. Click the profile picture on the top right of your screen in STEM Premier.
 - ii. Click "My Opportunities" and select your event.
 - iii. Follow the instructions for editing your submission.

Competitor Must Provide

- Ninety (90) second video presentation/demonstration uploaded to STEM Premier by May 15th
- Event guidelines – one per team (orientation)
- Innovation and any associated materials/display items, including the References page
- All audio visual equipment needed
- Index cards or electronic notecards for presentation (optional)
- Plain, white cloth table drape (optional)
- Pencil for evaluation

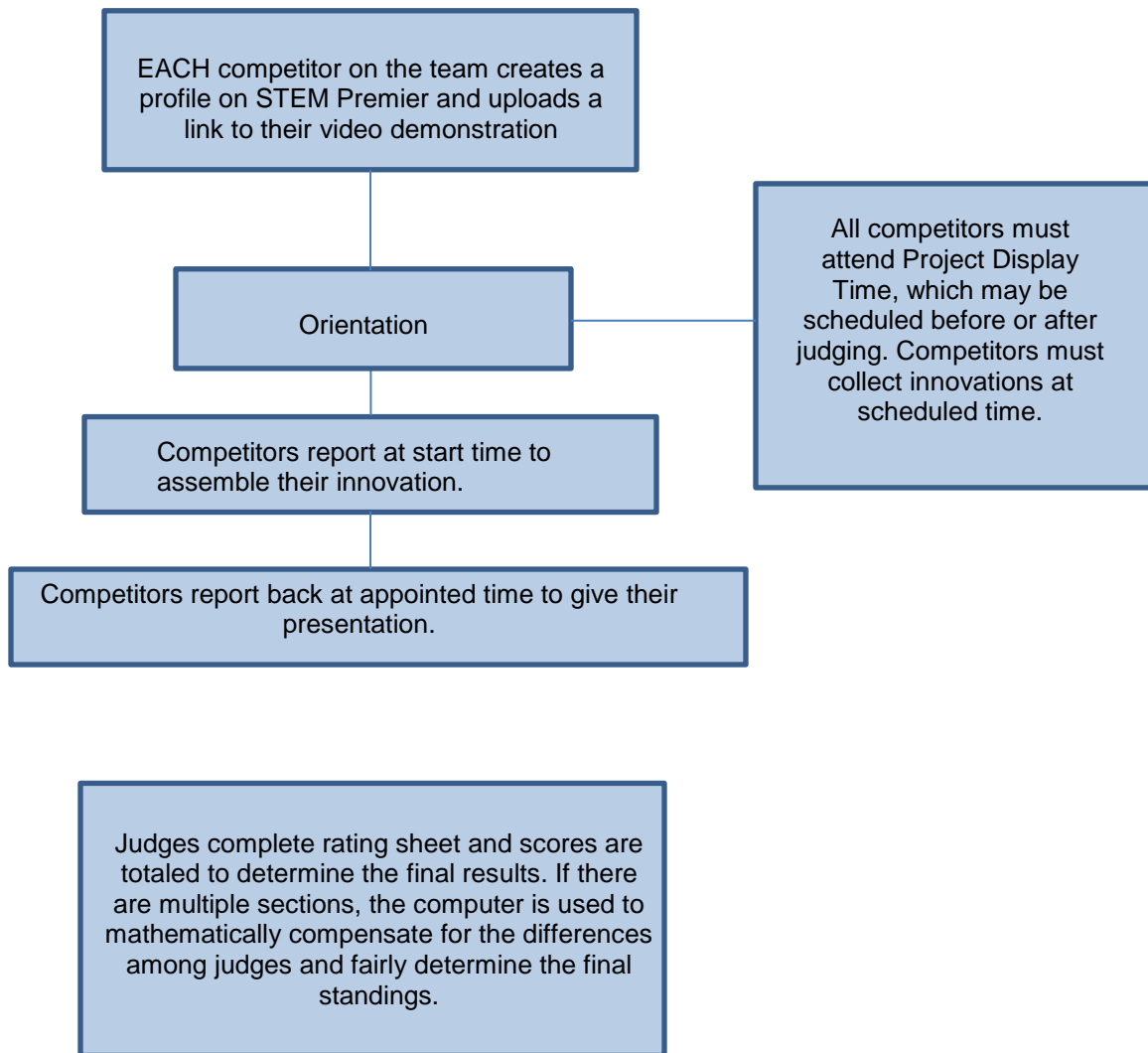
Required Personnel

- One Event Manager
- One QA to provide quality assurance for the event by ensuring that the guidelines are followed and all event documents are complete.
- One Section Leader per section
- One Timekeeper per section
- Two – three judges per section
- One-two event assistants per section

Facilities, Equipment and Materials (Per Section)

- Suggested set-up: If 8 ft. tables or banquet rounds are used, there may be two displays per table, usually placed in one long row per section.
- Two - three chairs per display or table (optional-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
- List of competitors who have uploaded materials to STEM Premier by deadline.

Event Flow Chart



HOSA Style Sheet, Adapted from APA style

EVERY REQUIREMENT MUST BE FOLLOWED TO RECEIVE CREDIT

This style sheet is designed to make it easier for HOSA members 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/>.

Written Paper Guidelines

1. Type your paper on 8.5 x 11 inch white paper, stapled in the upper left corner, double spaced, with 1" margins on all sides.
2. Do NOT use bold face anywhere on the paper, EXCEPT on the title on the cover page, and be sure your paper is in Arial, 12 pt. font.
3. For events that require it, create a cover page with the event name, title of the paper/project, competitor name, chapter name, division, school and state in the center of the page.
4. Create a running head with the title of the paper/project on the upper left-hand corner, ½ inch from the top and flush with the left margin. This running head must also number all pages consecutively on the upper right-hand corner, flush with the right margin.
5. Abstracts are NOT necessary in HOSA competitive events.
6. Place the parenthetical reference at the end of the sentence but before the final period, using author's last name and year of publication. For example, "...in the hospital" (Belkin, 2003). For anonymous authors, the shortened version of the title replaces the author's last name in the text citation. For example, "...in a rainy day" (Meteorologist, 2012). For personal interviews or emails, cite in-text only (S. Smith, personal communication, August 15, 2014), not on your references page.

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. References should be single spaced and 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 (2nd 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	
No partial points are given in Section A. All five items <u>must</u> be completed to receive 35 points. If any portion is missing, Section A is scored a 0.							
A POINTS FOR FOLLOWING GUIDELINES <input type="checkbox"/> Display is no more than 36" high x 48" wide x 24" deep. <input type="checkbox"/> Reference page is included <input type="checkbox"/> Video uploaded to STEM Premier, <i>by each team member, by deadline.</i> <input type="checkbox"/> Display/equipment is safe and poses no hazards <input type="checkbox"/> Team participated in Display Time	35				0		
B DISPLAY TABLE 1. <i>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	
2. <i>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	
3. <i>Creativity</i> There are elements of innovation & eye-catching design that make the display unique. It stands out in the room.	5	4	3	2	1	0	
C TEAM MEMBERS AND PRESENTATION 1. <i>Information/content</i> Information presented was organized, clear, and included sufficient details. Presenters clearly had a command of the knowledge and effectively taught the judges about the original innovation.	10	8	6	4	2	0	
2. <i>All team members took active role</i>	5	4	3	2	1	0	
3. <i>Presentation Style</i> Voice (volume/grammar), poise, eye contact, gestures, and enthusiasm for the invention.	5	4	3	2	1	0	
4. <i>Answered judge questions effectively</i>	5	4	3	2	1	0	
D HEALTH INFORMATION 1. <i>Design</i> The innovation was well designed and understood. Information presented was original, unique, comprehensive and challenging.	20	16	12	8	4	0	
2. <i>Relevance</i> The innovation would have a positive impact on healthcare, quality of life, or reducing care costs.	10	8	6	4	2	0	
3. <i>Overall effectiveness</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	
TOTAL POINTS	125	-----	-----	-----	-----	0	