

Health Informatics

New for 2021 - 2022

Editorial changes have been made for clarity.

Event Summary

Health Informatics provides members with the opportunity to gain knowledge and skills regarding the management of health information and the assimilation of technology in health care. This competitive event consists of a written test and aims to inspire members to learn about concepts related to the study of informatics.

Dress Code Competitors must be in official HOSA uniform or in proper business attire. Bonus points will be awarded for [proper dress](#).

General Rules

1. Competitors in this event must be active members of HOSA-Future Health Professionals and in good standing.
2. 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 \(GRR\)](#)."
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.

Official References

- [Hoyt, Robert E. and William R Hersh, Health Informatics Practical Guide, Informatics Education, Latest Edition.](#)
- [Nelson, Ramona and Nancy Staggers, Health Informatics An Interprofessional Approach, Elsevier, Latest Edition.](#)

Written Test

5. [Test Instructions](#): The written test will consist of 75 multiple choice items in a maximum of 90 minutes.
6. **Time Remaining Announcements**: There will be a verbal announcement when there are 60 minutes, 30 minutes, 15 minutes, 5 minutes, and 1 minute remaining to complete the test.
7. A written tiebreaker will be administered with the original test. In case of a tie, this written response will be judged and used to break the tie.
8. The test plan and resources for Health Informatics:

History, Careers and Roles.....	5%
Healthcare Data and Analytics.....	10%
Electronic Health Records, Information Exchange & Retrieval.....	12%
Health Information Privacy & Security.....	5%
Health Information Ethics & Governance.....	5%
Patient Safety & Consumer Health Information.....	11%
Information Systems In Healthcare Delivery.....	10%
Evidence Based Clinical Practice.....	12%
Application: EBM Case Studies & Clinical Trials;	

EHR Data Entry, Retrieval & Analysis..... 30%

*NOTE: **Chartered associations**/regions may use a different process for testing, to include but not limited to pre-conference testing, online testing, and testing at a computer. Check with your Area/Region/State/**Chartered Association** for the process you will be using.*

9. Case studies, clinical trials, and EHRs will be a part of the test and will assess knowledge and skills related to the analysis of background data and information. data entry and retrieval; and risk measures and calculations. A series of multiple-choice questions related to the data will be included.
10. At the International Leadership Conference, HOSA will provide basic handheld calculators (no graphing calculators) for addition, subtraction, division, multiplication, and square root. Check with State Advisor to determine if a calculator will be used at the State level.
11. All competitors will receive two (2) 8.5x11" sheets of blank paper for use during the test.
12. **Sample Test Questions**
 1. In what year was the world's first computer-aided medical information system installed to aid in actual patient care?
 - A. 1958
 - B. 1962
 - C. 1971**
 - D. 1983Nelson/Staggers Page 597
 2. Which discipline is defined as the management of healthcare data and information through the application of computers and other information technologies?
 - A. Clinical Informatics
 - B. Bioinformatics
 - C. Public Health Informatics
 - D. Health Informatics**Hoyt/Hersh Page 2
 3. What is the term for online groups in which patients interact, sharing health-related data and learning from each other's experiences while being unbound by geographic limitations, social stigma, or other limiting characteristics?
 - A. Patient-focused virtual communities**
 - B. ePatient platform
 - C. eHealth precision medicine
 - D. ePatient exchangeNelson/Staggers Page 213

Final Scoring

13. Final rank is determined by the test score. In case of a tie, the essay question will be used to determine the rank.

Competitors Must Provide:

- Two #2 pencils with erasers
- [Photo ID](#)