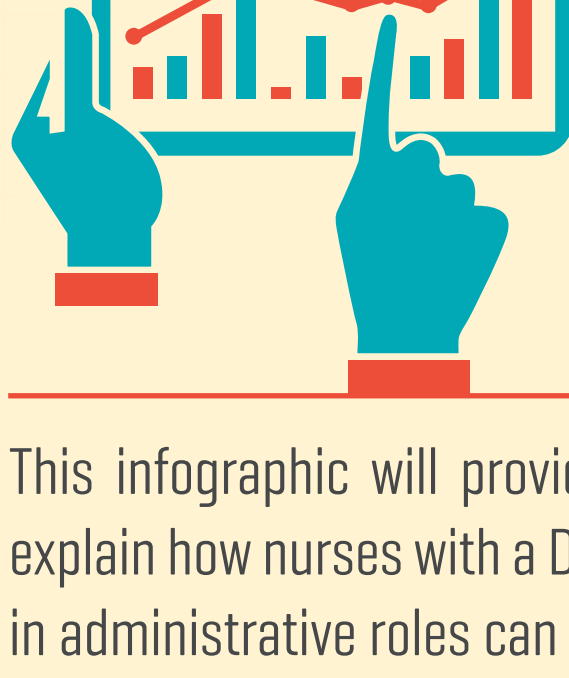


AN OVERVIEW OF HEALTH INFORMATICS FOR NURSING LEADERS



The role of information technology (IT) in health care has been growing steadily for over a decade. Nurse professionals have many opportunities within health informatics; however, they must have the proper skills and qualifications necessary to excel in this specialization.

This infographic will provide an overview of health informatics and explain how nurses with a Doctor of Nursing Practice (DNP) and nurses in administrative roles can utilize their education to secure a career in the field of health IT.



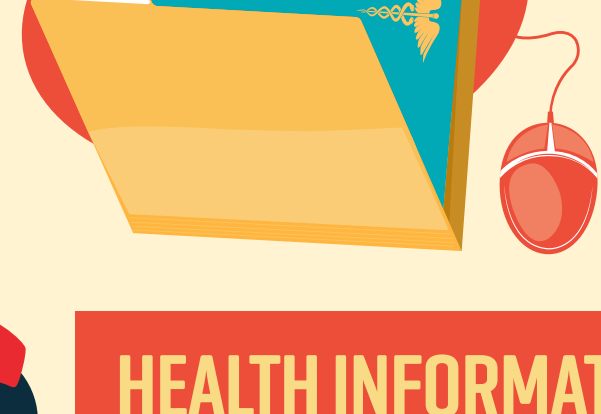
WHAT IS HEALTH IT?

Health informatics and IT have become integral parts of health care in the United States.

According to the U.S. National Library of Medicine, health informatics is “the interdisciplinary study of the design, development, adoption and application of IT-based innovations in health care services delivery, management and planning.”

ELECTRONIC HEALTH RECORD (EHR) ADOPTION AS OF 2015

75.5% of hospitals have adopted EHR



9 IN 10 office-based physicians have adopted EHR

HOW PHYSICIANS USE HER

64% EXCHANGE SECURE MESSAGES WITH PATIENTS

63% SHARE MEDICAL RECORDS WITH PATIENTS ELECTRONICALLY

41% HAVE PATIENTS DOWNLOAD MEDICAL RECORDS

19% HAVE PATIENTS TRANSFER MEDICAL RECORDS TO A THIRD PARTY

HEALTH INFORMATION SECURITY BREACHES

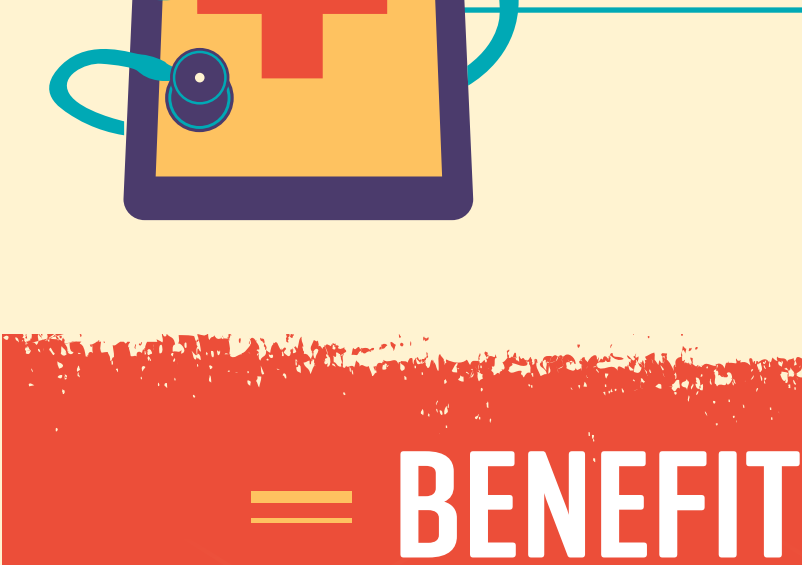
113 MILLION Individuals were affected by health IT breaches in 2015

99% of breaches were the result of hacking

In May 2017, a global ransomware attack shut down computers in Europe and the U.S., affecting health care organizations such as Britain's National Health System, over 40 hospitals across England and Pennsylvania's Heritage Valley Health System.

THE ROLE OF DNPS IN PREVENTING SECURITY BREACHES

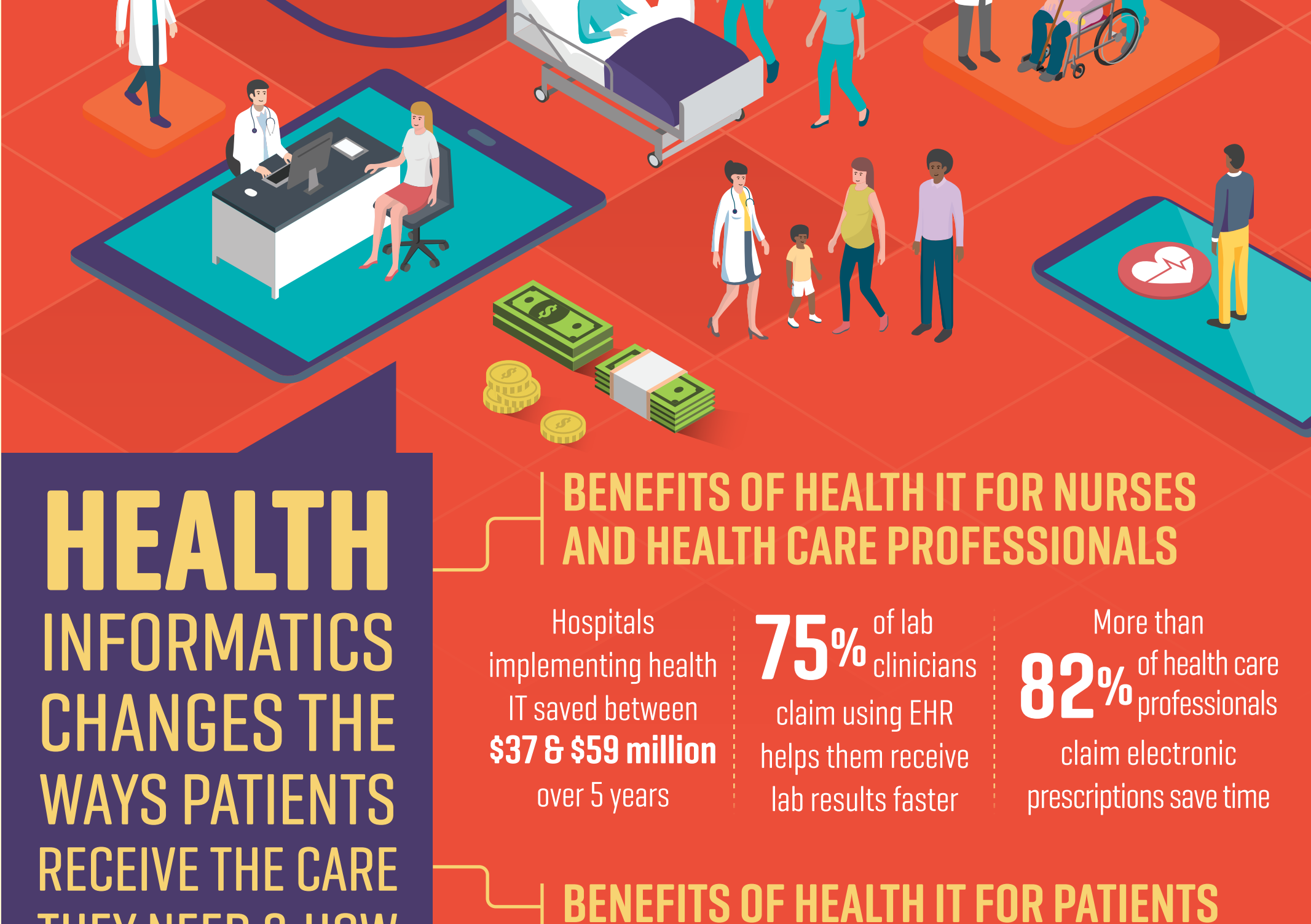
- ✓ Stay current with Health Insurance Portability and Accountability Act (HIPAA) regulations
- ✓ Perform an annual HIPAA security risk analysis
- ✓ Educate new members on policies and procedures
- ✓ Limit access to electronic health information
- ✓ Implement procedures to ensure workstation and mobile device security



According to the Office of the National Coordinator of Health IT, “As of July 2017, 684 health IT developers supply certified health IT to ambulatory primary care physicians, medical and surgical specialists, podiatrists, optometrists, dentists and chiropractors participating in the Medicare EHR Incentive Program.”

354,395

BENEFITS OF HEALTH IT FOR NURSES & PATIENTS



HEALTH INFORMATICS CHANGES THE WAYS PATIENTS RECEIVE THE CARE THEY NEED & HOW NURSES & OTHER HEALTH CARE PROFESSIONALS PROVIDE THAT CARE.

BENEFITS OF HEALTH IT FOR NURSES AND HEALTH CARE PROFESSIONALS

Hospitals implementing health IT saved between **\$37 & \$59 million** over 5 years

75% of lab clinicians claim using EHR helps them receive lab results faster

More than **82%** of health care professionals claim electronic prescriptions save time

BENEFITS OF HEALTH IT FOR PATIENTS

- ✓ Easy and direct access to medical records
- ✓ Accurate transfers of health information between physicians & insurance providers
- ✓ Aids in care coordination
- ✓ Reduces unnecessary and procedures



REQUISITE SKILLS FOR NURSES SEEKING A CAREER IN HEALTH IT

- ✓ Organization
- ✓ Workflow management
- ✓ Technical proficiency
- ✓ Understanding of health care policy
- ✓ Knowledge of health IT laws & regulations
- ✓ Change management



CAREER OUTLOOK FOR DNP-PREPARED NURSES

Nurses and other health care professionals seeking a career in health IT have many opportunities to enter the field and continue education to achieve leadership positions.

EDUCATION AND CERTIFICATION FOR NURSES SEEKING A HEALTH IT CAREER

According to a Healthcare Information and Management Systems Society (HIMSS) 2017 Nursing Informatics Workforce Survey, nurses who work in the health informatics field hold the following degrees and qualifications:

have a master's degree or Ph.D. in nursing

24%

have a master's degree or Ph.D. in nursing or an associated field

57%

will pursue some type of health IT certification within the next year

51%

have a master's degree or Ph.D. in an associated field

33%

have some type of health IT certification

49%

BENEFITS OF A DNP

- ✓ Less than 1% of all nurses have a doctoral degree
- ✓ Expanding knowledge of nursing theory, budgeting, financial management and leadership theory
- ✓ Strengthening skills for advanced leadership roles in health care
- ✓ Gaining technical skills and in-depth understanding of data management and health informatics



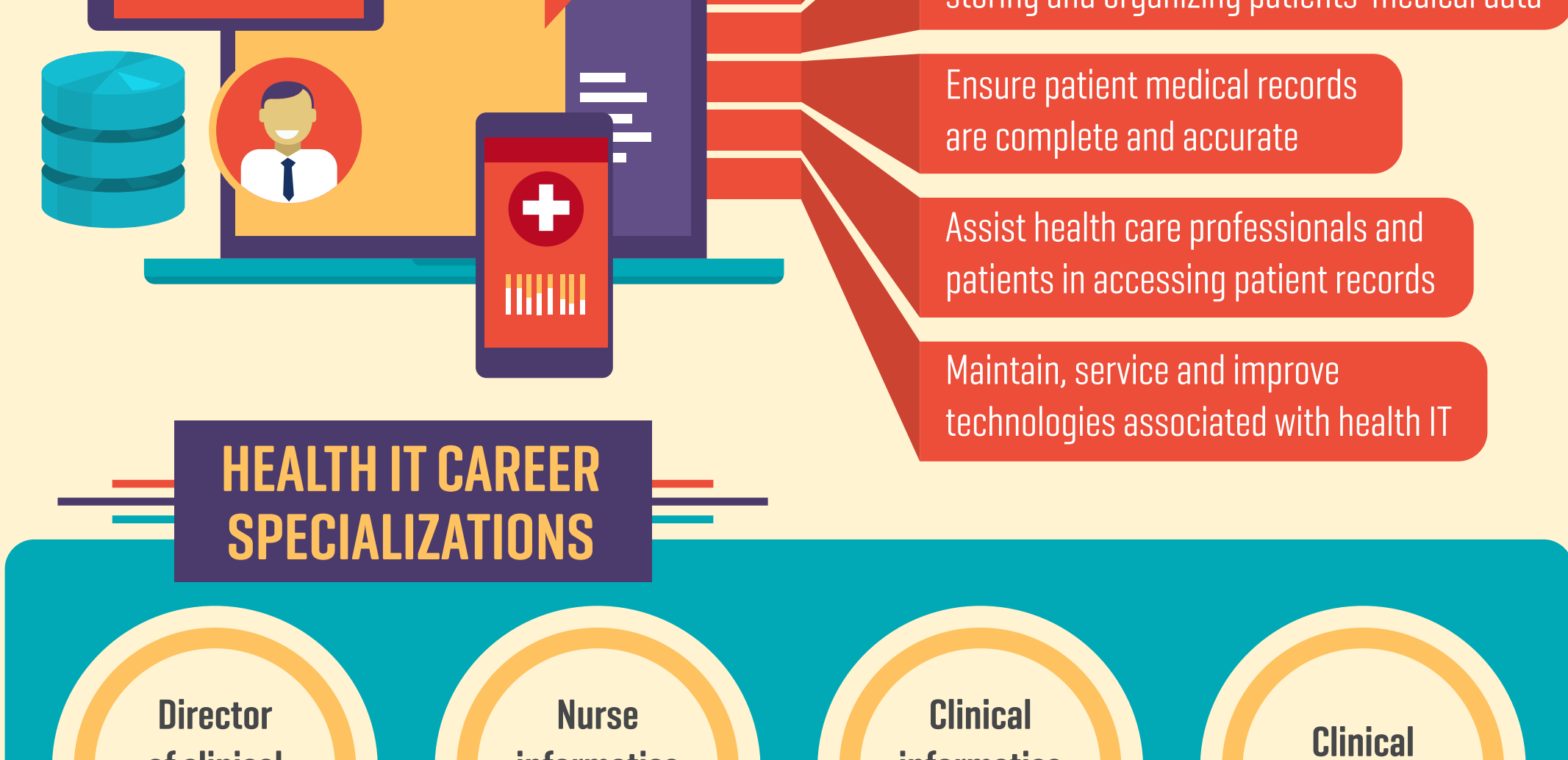
CAREER OUTLOOK FOR NURSES & HEALTH CARE PROFESSIONALS IN HEALTH IT

15% projected increase in employment for medical records and health information technicians between 2014 to 2024

According to an estimate by the American Medical Informatics Association (AMIA) in 2013, nursing health informatics specialists will be needed within the next 5 years.

70,000

RESPONSIBILITIES OF HEALTH INFORMATICS PROFESSIONALS



- Maintain patient confidentiality
- Develop and maintain systems for gathering, storing and organizing patients' medical data
- Ensure patient medical records are complete and accurate
- Assist health care professionals and patients in accessing patient records
- Maintain, service and improve technologies associated with health IT

HEALTH IT CAREER SPECIALIZATIONS

Director of clinical informatics

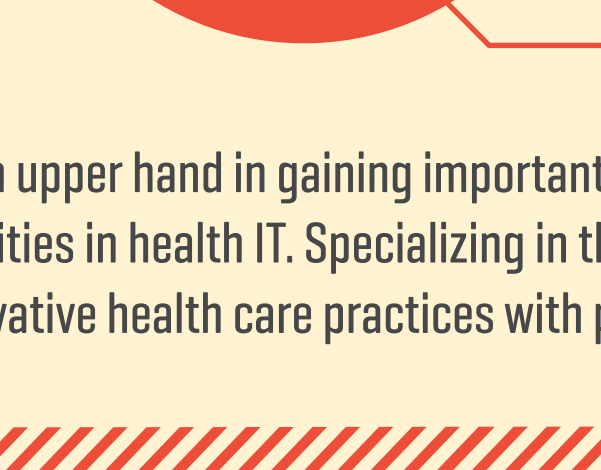
Nurse informatics specialist

Clinical informatics coordinator

Clinical analyst

RESPONSIBILITIES OF HEALTH INFORMATICS PROFESSIONALS

According to the HIMSS 2017 Nursing Informatics Workforce Survey, nursing informatics professionals receive the following annual salaries:



of respondents' salaries range from **\$61,000 to \$85,000**

of respondents' salaries range from **\$86,000 to \$100,000**

reported a salary over **\$100,000**

DNP-educated nurses have an upper hand in gaining important leadership roles within health care organizations through opportunities in health IT. Specializing in this field will put DNP-educated nurses at the cutting edge of innovative health care practices with plenty of room for career growth.



onlinedegrees.bradley.edu/nursing/dnp

SOURCES:

- <http://onlinedegrees.bradley.edu/nursing/dnp/>
- <http://www.himss.org/health-informatics-defined>
- <https://explorerealthcareers.org/field/informatics>
- <https://dashboard.healthit.gov/quickstats/quickstats.php>
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- <https://www.cchit.org/benefits-of-healthcare-information-technology/>
- <http://nursingjournal.org/nursing-informatics/nursing-informatics-career-outlook/>
- <https://www.hhs.gov/opa/for-professionals/security-laws-regulations/index.html>
- <http://nursing.advanceweb.com/Features/Articles/Nursing-Informatics-A-Career-on-the-Rise.aspx>
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