

Syllabus

Course Overview

Electronic records involve data and systems to manage that data. To help you navigate this topic, the work in this course will proceed on two tracks: the use of electronic health records (EHRs) for health information management (HIM) and the analysis of case studies that involve EHR implementation.

The EHR activities will provide you with practical skills and perspectives on the clinical transformation and data availability brought about by EHRs. By studying the experiences of health care organizations in EHR implementation, you will increase understanding of the impact of EHRs on workflow and process mapping, as well as of stages of the EHR software development life cycle (SDLC). Finally, this course addresses the familiar HIM topic of data, specifically data and technology standards that govern EHR systems. The assignments will tie together these main themes as you increase your knowledge of EHR use, life cycle, and standards.

EHR Go

In this course, your assignments will include exercises completed in an EHR simulation called EHR Go. Your instructor will provide you with the information you need to access EHR Go in Unit 1.

You will navigate to each lesson via a link provided in the course room. Direct questions about the content of the lessons and assessments to your faculty member. Direct technical questions about access to, or use of, EHR Go to the [EHR Go help desk](#) or phone at 1-877-907-2186.

Capella University is committed to providing individuals with disabilities equal access to University programs and services within the parameters of the law. Capella University offers reasonable accommodations to qualified learners. Those learners needing accommodations should refer to [Disability Services](#) information on Campus, e-mail DisabilityServices@capella.edu, or call 888-CAPELLA and ask to speak with a Disability Services team member. Learners using assistive technology or alternative communication methods may contact Disability Services with any access related questions or to request accommodations.

Learners approved for accommodations will receive a Letter of Eligibility for Accommodations from the Disability Services office. Learners need to share this letter with their faculty member to receive the accommodations for which they have been approved. Accommodations need to be set up as early in the class as possible. They cannot be applied retroactively.

This course features a third party resource, EHR Go, which may be difficult to fully access for certain learners using assistive technology or for other reasons. Alternate assessments are available upon request for any learner who has difficulty accessing this resource. Please contact your faculty member for more information.

Note: Learners who want greater contrast on their browser screen while working in EHR Go may install the high contrast extension for Chrome by going to Chrome Settings > More Tools > Extensions – High Contrast and clicking Enable. Also, users can navigate through EHR Go using the tab key to move from field to field (the ctrl+key sequence is not enabled).

Course Competencies

(Read Only)

To successfully complete this course, you will be expected to:

- 1 Analyze the development and the role of EHRs in health care organizations.
- 2 Evaluate the strategies for EHR design and implementation in the SDLC.
- 3 Evaluate the role that data and technology standards play in implementation and maintenance of an electronic health record (EHR) system.
- 4 Analyze the implications of an increase in data sharing resulting from EHR adoption in various health care settings.
- 5 Communicate in a professional manner to support health data management.

Course Prerequisites

Prerequisite(s): HIM4610.

Syllabus >> Course Materials

Required

The materials listed below are required to complete the learning activities in this course.

Integrated Materials

Once the [Capella University Bookstore](#) opens for the quarter, as a registered learner you will receive an e-mail containing a direct link you can use to obtain your materials. Please follow the instructions provided to you by the bookstore to download digital materials. Some materials are available only in hard-copy format and will be shipped to you. The bookstore will indicate any materials that may involve shipping.

Book

Amatayakul, M. K. (2017). *Health IT and EHRs: Principles and practice* (6th ed.). Chicago, IL: AHIMA Press. ISBN: 9781584265290.

Library

The following required readings are provided in the Capella University Library or linked directly in this course. To find specific readings by journal or book title, use [Journal and Book Locator](#). Refer to the [Journal and Book Locator library guide](#) to learn how to use this tool.

- Ardito, S. C. (2014). [Electronic health records](#). *Online Searcher*, 38(6), 38–44.
- Bhansali, N., & Gupta, S. (2014). [The engine of health information exchange](#). *Journal of Management Policy and Practice*, 15(3), 30–35.
- Callan, K., Fuller, J., Galterio, L., Just, B., & Reich, K. (2014). [Making health information exchange work](#). *Journal of AHIMA*, 85(11), 32–36.
- Commins, J. (2014). [EHR interoperability remains elusive](#). *The Doctors Office*, 33(2), 11.
- Dibley, L. (2011). [Analysing narrative data using McCormack's lenses](#). *Nurse Researcher*, 18(3), 13–19.
- Fleming, N. S., Becker, E. R., Culler, S. D., Cheng, D., McCorkle, R., da Graca, B., & Ballard, D. J. (2014). [The impact of electronic health records on workflow and financial measures in primary care practices](#). *Health Services Research*, 49, 405–420. doi:10.1111/1475-6773.12133
- Friedman, D. J., Parrish, R. G., & Ross, D. A. (2013). [Electronic health records and U.S. public health: Current realities and future promise](#). *American Journal of Public Health*, 103(9), 1560–1567.

- Ghorbani, N., Ahmadi, M., Sadoughi, F., & Ghanei, M. (2012). [Developing data elements for research information system in health: A starting point for systems integration](#). *Iranian Journal of Public Health*, 41(12), 30–39.
- Hermann-Petrin, J. (2012). [Role of compatibility views on physician adoption of electronic health record systems \(Doctoral dissertation\)](#). Retrieved from ProQuest Dissertations Publishing. (3570941.) 1-5.
- Kallem, C., Richesson, R., DuLong, D., Sison, L., Van Dyke, P., & Mon, D. T. (2011). [Advancing secondary data uses through data standards](#). *Journal of the American Health Information Management Association*, 82(4), 38–39.
- Le, P. N. (2013). [Strategic interoperability](#). *Health Management Technology*, 34(10), 16.
- Mace, S. (2014, September). [Toward health information exchange](#). *Health Leaders*, 17(7), 38, 40–41.
- [Mostashari: Demand EHR interoperability. \(2012\)](#). *Medical Economics*, 89(21), 16.
- Narcisse, M., Kippenbrock, T. A., Odell, E., & Buron, B. (2013). [Advanced practice nurses' meaningful use of electronic health records](#). *Applied Nursing Research*, 26(3), 127–132.
- Newman, J. (2013, June 13). [Health-records experts stress safety: Electronic charts make it easier to access medical history, but it may take years to improve system](#). *Wisconsin State Journal*, A1.
- Otto, P., & Nevo, D. (2013). [Electronic health records](#). *Journal of Enterprise Information Management*, 26(1/2), 165–182.
- Phansalkar, S., van der Sijs, H., Tucker, A. D., Desai, A. A., Bell, D. S., Teich, J. M., . . . Bates, D. W. (2013). [Drug-drug interactions that should be non-interruptive in order to reduce alert fatigue in electronic health records](#). *Journal of the American Medical Informatics Association*, 20(3), 489–493.
- Ramaiah, M., Subrahmanian, E., Sriram, R. D., & Lide, B. B. (2012, Spring). [Workflow and electronic health records in small medical practices](#). *Perspectives in Health Information Management*, 1–16.
- Ronquillo, J. G. (2012). [How the electronic health record will change the future of health care](#). *Yale Journal of Biology and Medicine*, 85(3), 379–386.
- Rothman, B., Leonard, J. C., & Vigoda, M. M. (2012). [Future of electronic health records: Implications for decision support](#). *The Mount Sinai Journal of Medicine, New York*, 79(6), 757–768.
- Shank, N., Willborn, E., Pytlikzillig, L., & Noel, H. (2012). [Electronic health records: Eliciting behavioral health providers' beliefs](#). *Community Mental Health Journal*, 48(2), 249–254.
- Shapiro, J. S., Mostashari, F., Hripcsak, G., Soulakis, N., & Kuperman, G. (2011). [Using health information exchange to improve public health](#). *American Journal of Public Health*, 101(4), 616–623.
- Sidebottom, A. C., Collins, B., Winden, T. J., Knutson, A., & Britt, H. R. (2012). [Reactions of nurses to the use of electronic health record alert features in an inpatient setting](#). *Computers, Informatics, Nursing*, 30(4), 218–226.
- Sujansky, W., & Kunz, D. (2015). [A standard-based model for the sharing of patient-generated health information with electronic health records \[PDF\]](#). *Personal and Ubiquitous Computing*, 19(1), 9–25.
- van der Velde, E. T., Foeken, H., Witteman, T. A., van Erven, L., & Schaliij, M. J. (2012). [Integration of data from remote monitoring systems and programmers into the hospital electronic health record system based on international standards](#). *Netherlands Heart Journal*, 20(2), 66–70.
- Wang, R., & Dugel, P. U. (2013). [Electronic health records: Future business applications, Part 1](#). *Ophthalmic Surgery, Lasers & Imaging Retina*, 44(5), 439–441.
- Wang, R., & Dugel, P. U. (2013). [Electronic health records: Future clinical applications, Part 2](#). *Ophthalmic Surgery, Lasers & Imaging Retina*, 44(6), 528–530.
- Williams, J. S., & Jacobs, B. (2012). [Achieving interoperability: What's happening out there?](#) *Biomedical Instrumentation & Technology*, 46(1), 14–23.

- Yannakoulias, N. (2011). [Understanding identifiability in secondary health data](#). *Canadian Journal of Public Health*, 102(4), 291–293.

External Resource

Please note that URLs change frequently. While the URLs were current when this course was designed, some may no longer be valid. If you cannot access a specific link, contact your instructor for an alternative URL. Permissions for the following links have been either granted or deemed appropriate for educational use at the time of course publication.

- Data Transformed. (2013). [Textual ETL demonstration: How unstructured data can become structured \[Video\]](#). Retrieved from <http://www.youtube.com/watch?v=KthRyB87UMI>
- [EHR Go](#). (n.d.). Retrieved from <https://ehrgo.com>
- Grand Rounds Continuing Medical Education. (2012). [Electronic health records: History, tips, and tricks \[Video\]](#). Quillen College of Medicine/East Tennessee State University. Retrieved from http://www.youtube.com/watch?v=p_tDt1rBxzk
- HealthIT.gov. (2013). [EHR implementation lessons from the field](#). Retrieved from <https://www.healthit.gov/providers-professionals/ehr-implementation-lessons-field>
- HealthIT.gov. (2014). [Standards and certification regulations](#). Retrieved from <http://healthit.gov/policy-researchers-implementers/standards-and-certification-regulations>
- HealthIT.gov. (2015). [Benefits of electronic health records \(EHRs\)](#). Retrieved from <https://www.healthit.gov/providers-professionals/benefits-electronic-health-records-ehrs>
- HealthIT.gov. (2017). [About the ONC Health IT Certification Program](#). Retrieved from <https://www.healthit.gov/policy-researchers-implementers/about-onc-health-it-certification-program>
- HealthIT.gov. (2013). [How to implement EHRs](#). Retrieved from <https://www.healthit.gov/providers-professionals/ehr-implementation-steps>
- infoTGHN. (2014). [Big data in health and human welfare research: Using Splunk software \[Video\]](#). Retrieved from <http://www.youtube.com/watch?v=l4siSfvA5A>
- Stewards of Change Institute. (2012). [Building cross system information sharing from ground up using electronic health record technology \[Video\]](#). Retrieved from https://www.youtube.com/watch?v=_RC7GsBvyBw

Suggested

The following materials are recommended to provide you with a better understanding of the topics in this course. These materials are not required to complete the course, but they are aligned to course activities and assessments and are highly recommended for your use.

External Resource

Please note that URLs change frequently. While the URLs were current when this course was designed, some may no longer be valid. If you cannot access a specific link, contact your instructor for an alternative URL. Permissions

for the following links have been either granted or deemed appropriate for educational use at the time of course publication.

- HealthIT.gov. (2019). [Case studies](https://www.healthit.gov/case-studies) Retrieved from <https://www.healthit.gov/case-studies>
- HealthIT.gov. (2019). [Success stories](https://www.healthit.gov/success-stories). Retrieved from <https://www.healthit.gov/success-stories>
- Michigan State Medical Society. (n.d.). [A summary of 14 case studies to guide Michigan physicians \[PDF\]](https://www.msms.org/Portals/0/Documents/MSMS/Resources/For_Practices/HIT/EMR_Case_Studies.pdf). Retrieved from https://www.msms.org/Portals/0/Documents/MSMS/Resources/For_Practices/HIT/EMR_Case_Studies.pdf

Optional

The following optional materials are offered to provide you with a better understanding of the topics in this course. These materials are not required to complete the course.

Unit 1 >> History of the EHR

Introduction

In this first unit, you will get your hands on an EHR! At the same time, your readings will cover the origin and evolution of EHR technology, the various components of an EHR, and finally the overall framework of an EHR. The EHR is a system, which means a group of elements that work together to perform a function. You will look at the various parts and at the ways in which they are connected (Amatayakul, 2017).

As soon as your instructor provides the information you need, create an account to access the EHR activities planned for the course. During this unit, you will complete an orientation activity. As you learn about the EHR, pay attention to your experiences and lessons learned. You will use them as resources to complete course discussions and assignments.

Reference

Amatayakul, M. K. (2017). *Health IT and EHRs: Principles and practice* (6th ed.). Chicago, IL: AHIMA Press.

Learning Activities

u01s1 - Studies

Readings

Read the following pages from your text *Health IT and EHRs: Principles and Practice* (6th ed.):

- Chapter 1, "Introduction to Health IT," pages 1–28.

Read the following articles from the Capella University Library:

- Ardito, S. C. (2014). [Electronic health records](#). *Online Searcher*, 38(6), 38–44.
- Friedman, D. J., Parrish, R. G., & Ross, D. A. (2013). [Electronic health records and U.S. public health: Current realities and future promise](#). *American Journal of Public Health*, 103(9), 1560–1567.
- Wang, R., & Dugel, P. U. (2013). [Electronic health records: Future business applications, Part 1](#). *Ophthalmic Surgery, Lasers & Imaging Retina*, 44(5), 439–441.
- Wang, R., & Dugel, P. U. (2013). [Electronic health records: Future clinical applications, Part 2](#). *Ophthalmic Surgery, Lasers & Imaging Retina*, 44(6), 528–530.

Multimedia

View the following video at the link provided:

- Grand Rounds Continuing Medical Education. (2012). [Electronic health records: History, tips, and tricks](#) [Video]. Quillen College of Medicine/East Tennessee State University. Retrieved from http://www.youtube.com/watch?v=p_tDt1rBxzk

u01s1 - Learning Components

- Review the uses of EHRs in various settings.
- Describe the framework and conceptual model of the components of an EHR.
- Assess the relevance and credibility of information sources.

u01s2 - Electronic Health Record (EHR) Activity

You will use a simulated EHR tool and related lessons in this course to provide you with realistic hands-on experiences that build your skills in using an EHR and understanding the impact of an EHR on health information management.

During the first unit of the course, your instructor will provide you with the information you need to access the EHR tool. Upon receipt of this information, go to [EHR Go](#) and set up your account; if you have an account through another Capella course, use that account. After you log in, you may wish to download the Student Guide and watch introductory videos (both found under *Help* on the home screen of EHR Go) to become familiar with the platform.

During this unit, complete the following lesson and download the results to submit as an assignment:

- [EHR Orientation](#).

If you need help with your EHR Go account, please contact the [EHR Go help desk](#) or phone at 1-877-907-2186. If you have questions related to the content of the learning activities, please contact your instructor.

This and the other assignments in the course require interaction with EHR Go, an electronic health record program intended to give you hands-on experience. If you have any difficulties accessing this resource to complete the

assignment, an alternate assignment may be available. To request this alternate assignment, please contact your course instructor.

Your experience with EHR Go may be improved by the use of assistive technology. If you have any questions about what solutions may be available, please contact [Disability Services](#) by e-mail at DisabilityServices@capella.edu, or call 888-CAPELLA and ask to speak with a Disability Services team member.

Note: Learners who want greater contrast on their browser screen while working in EHR Go can install the High Contrast Extension for Chrome by going to Chrome Settings > More Tools > Extensions - High Contrast and clicking Enable. Also, users can navigate through EHR Go using the Tab key to move from field to field (the ctrl+key sequence is not enabled).

u01s2 - Learning Components

- Practice EHR skills.
- Encounter EHR functions in course activities and in case studies.

u01a1 - EHR Activity Submission

Submit the work downloaded from completing the following EHR lesson: EHR Orientation.

u01d1 - Categories of Information Systems

EHRs are composed of four main categories of information systems: source systems, supporting infrastructure, core clinical systems, and connectivity systems. Select one of these categories and explain what is included in the categories and the main purpose of the category. Indicate characteristics of an EHR system that may be present from this specific category.

Your initial post must use at least one scholarly or health care industry-recognized resource, and include an in-text citation and its related reference, following current APA format guidelines.

Response Guidelines

Select the post of a peer that addresses a different category from the one you selected. Identify and explain how the two categories would work together. Indicate characteristics in an EHR system that may be present due to these categories working together.

u01d1 - Learning Components

- Describe the framework and conceptual model of the components of an EHR.
- Apply the principles of effective composition.
- Determine the proper application of APA formatting requirements.

u01d2 - EHR Applications

After working in EHR Go, identify one application present in the EHR with which you have interacted. Explain how this interaction occurred.

Your initial post must use at least one scholarly or health care industry-recognized resource, and include an in-text citation and its related reference, following current APA format guidelines.

Response Guidelines

Select a post from a peer that addresses a different application than the one you had selected. Compare the two applications.

u01d2 - Learning Components

- Review the uses of EHRs in various settings.
- Apply the principles of effective composition.
- Determine the proper application of APA formatting requirements.

Unit 2 >> System Development Life Cycle

Introduction

The Unit 2 readings focus on the systems development life cycle (SDLC), which is the "ongoing process of developing information systems" (Amatayakul, 2017). After examining different systems and the challenges that

may accompany their development, you will move on to the stages of the SDLC. These stages include planning, analysis, design, implementation, testing, and maintaining.

In addition to the readings, you will continue to work in the EHR and submit your results, this time exploring different systems in the EHR. Also, you will review EHR implementation case studies in an assignment preparation study, preparing to select a case study for analysis in Unit 3.

Reference

Amatayakul, M. K. (2017). *Health IT and EHRs: Principles and practice* (6th ed.). Chicago, IL: AHIMA Press.

Learning Activities

u02s1 - Studies

Readings

Read the following pages from your text *Health IT and EHRs: Principles and Practice* (6th ed.):

- Chapter 2, "Information Systems Theory and Systems Development Life Cycle," pages 29–52.

Read the following articles from the Capella University Library:

- Newman, J. (2013, June 13). [Health-records experts stress safety: Electronic charts make it easier to access medical history, but it may take years to improve system](#). *Wisconsin State Journal*, A1.
- Otto, P., & Nevo, D. (2013). [Electronic health records](#). *Journal of Enterprise Information Management*, 26(1/2), 165–182.
- Shank, N., Willborn, E., Pytlikzillig, L., & Noel, H. (2012). [Electronic health records: Eliciting behavioral health providers' beliefs](#). *Community Mental Health Journal*, 48(2), 249–254.

Multimedia

View the following video at the link provided:

- Stewards of Change Institute. (2012). [Building cross system information sharing from ground up using electronic health record technology](#) [Video]. Retrieved from https://www.youtube.com/watch?v=_RC7GsBvyBw

u02s1 - Learning Components

- Review the stages of the system development life cycle.
- Describe the framework and conceptual model of the components of an EHR.
- Identify critical success factors for EHR adoption.
- Assess the relevance and credibility of information sources.

u02s2 - EHR Activity

Use your EHR Go account to complete the following activity:

- [The Power of the EHR.](#)

Save and download the document you complete. You will submit it as an assignment in this unit.

If you need help with your EHR Go account, please contact the [EHR Go help desk](#) or phone at 1-877-907-2186. If you have questions related to the content of the learning activities, please contact your instructor.

u02s2 - Learning Components

- Practice EHR skills.
- Encounter EHR functions in course activities and in case studies.

u02s3 - Assignment Preparation

Starting in Unit 3, you will complete course assignments in which you analyze case studies of EHR implementations. These assignments are located in Units 3, 5, 7, and 9. Each assignment has a different focus and different scoring guide criteria. To complete these assignments successfully, you will need to choose one case study to analyze for each of Units 3, 5, and 7, and two case studies for Unit 9. All of these should be separate case studies.

Choosing case studies that allow you to meet scoring criteria in each of the assignments is your responsibility. Suggested case study resources are presented here to help you familiarize yourself with the resources available. Please review the case study resources at this time to ease your path to assignment completion. In addition, you may want to look ahead to Units 3, 5, 7, and 9 to review the assignment descriptions and scoring guide criteria.

- HealthIT.gov. (2014). [Success stories](#). Retrieved from <https://www.healthit.gov/success-stories>
 - At this link, you will find EHR implementation stories from providers around the country.
- HealthIT.gov. (2014). [Case studies](#). Retrieved from <https://www.healthit.gov/case-studies>
- Michigan State Medical Society. (n.d.). [A summary of 14 case studies to guide Michigan physicians](#) [PDF]. Retrieved from https://www.msms.org/Portals/0/Documents/MSMS/Resources/For_Practices/HIT/EMR_Case_Studies.pdf
 - These studies were intended to fill a gap in research by providing physicians with examples of adoption by practices of various sizes and settings.
- [Capella Library Databases](#)
 - This link takes you to a list of all Capella Library databases. Within this list, PubMed is a good resource for case studies. Search *electronic health records* to get started.

u02s3 - Learning Components

- Encounter EHR functions in course activities and in case studies.

u02a1 - EHR Activity Submission

Submit the work you downloaded after completing the following EHR lesson: The Power of the EHR.

Course Resources

[The Power of the EHR](#)

u02d1 - EHR Benefits and Limitations

Identify two benefits and two limitations of implementing an EHR. Compare and contrast these benefits and limitations.

Your initial post must use at least one scholarly or health care industry-recognized resource, and include an in-text citation and its related reference, following current APA format guidelines.

Response Guidelines

Identify a limitation described in a peer's post, and propose a method to overcome the limitation.

Course Resources

[Undergraduate Discussion Participation Scoring Guide](#)

u02d1 - Learning Components

- Review examples of EHR adoption successes and failures.
- Identify critical success factors for EHR adoption.
- Apply the principles of effective composition.
- Determine the proper application of APA formatting requirements.

u02d2 - EHR Adoption Challenges

What are some challenges that can be faced in EHR adoption? Use your experiences with EHR Go as examples.

Your initial post must use at least one scholarly or health care industry-recognized resource, and include an in-text citation and its related reference, following current APA format guidelines.

Response Guidelines

Provide a possible solution to overcome a peer's challenge. Use your experiences with EHR Go as examples.

Course Resources

Undergraduate Discussion Participation Scoring Guide

u02d2 - Learning Components

- Review the uses of EHRs in various settings.
- Identify critical success factors for EHR adoption.
- Apply the principles of effective composition.
- Determine the proper application of APA formatting requirements.

Unit 3 >> Strategic Planning and Goal Setting

Introduction

In the previous unit, you identified the challenges of EHR use. This unit involves the benefits of using the EHR, so that you can explore how the benefits and challenges balance against each another. In addition to EHR benefits, you will examine the setting of goals for EHR use and strategic planning for the implementation of an EHR.

Strategic planning includes setting priorities, such as deciding which applications are needed versus only desired. And, what should be the sequence of application implementation?

In the hands-on activity for this unit, you will learn how to change or update information in the EHR. You will submit the results of that activity as an assignment. Also, you will complete a case study analysis as a unit assignment. You must select an appropriate case study in order to complete the assignment.

Learning Activities

Readings

Read the following pages from your text *Health IT and EHRs: Principles and Practice* (6th ed.):

- Chapter 3, "Strategic Planning for Health IT," pages 53–90.
- Chapter 4, "Health IT Goal-Setting and Measuring Impact on Healthcare Value," pages 81–124.

Read the following articles from the Capella University Library:

- Hermann-Petrin, J. (2012). [Role of compatibility views on physician adoption of electronic health record systems \(Doctoral dissertation\)](#). Retrieved from *ProQuest Dissertations & Theses Global*. (3570941).
 - Chapter 1, "Introduction," pages 1–5.
- Rothman, B., Leonard, J. C., & Vigoda, M. M. (2012). [Future of electronic health records: Implications for decision support](#). *The Mount Sinai Journal of Medicine, New York*, 79(6), 757–768.

u03s1 - Learning Components

- Review the uses of EHRs in various settings.
- Describe the characteristics of a successful EHR implementation.
- Assess the relevance and credibility of information sources.

u03s2 - EHR Activity

Use your EHR Go account to complete the following activity:

- [Editing Patient Information](#).

Download and save the document you complete. You will submit it as an assignment in this unit.

If you need help with your EHR Go account, please contact the [EHR Go help desk](#) or phone at 1-877-907-2186.

u03s2 - Learning Components

- Practice EHR skills.
- Encounter EHR functions in course activities and in case studies.

u03a1 - EHR Activity Submission

Submit the work you downloaded after completing the following EHR lesson: Editing Patient Information.

Course Resources

[Editing Patient Information](#)

u03a2 - EHR Adoption and Benefits

In this assignment, you will examine EHR use and system implementation in a case study of your choice. You will combine practical experience from course activities with a broader perspective provided by studying an EHR implementation in a professional health care environment. Before you complete your assignment, do all of the assigned EHR course activities from this and previous units, so that you have skills and experience to apply to the case study analysis.

Instructions

Choose a case study from one of the resources provided; provide the citation in APA format; and give a brief overview of the case study you chose. Based on your reading of the case study, your experience in using the EHR in the course, and further research in industry or scholarly resources, write your case study analysis to meet the following criteria:

- Describe the characteristics of an EHR system.
- Identify the benefits and limitations of the EHR.
- Summarize the challenges to EHR adoption.
- Compare EHR applications.

Submission Requirements

- Page length: 3–5 pages.
- References: Provide references and citations in current APA style and format.
- Writing: Create a document that is clearly written and generally free of grammatical errors.

Course Resources

[Success stories.](#)

[Case studies](#)

[A Summary of 14 Case Studies to Guide Michigan Physicians \[PDF\]](#)

[Capella Library Databases \(search PubMed\)](#)

[APA Style and Format](#)

u03d1 - Goals and Benefits for the EHR

Explain the importance of establishing goals and benefits expectations for the EHR.

Your initial post must use at least one scholarly or health care industry-recognized resource, and include an in-text citation and its related reference, following current APA format guidelines.

Response Guidelines

Select a goal or benefit described by a peer, and describe how to measure if that goal or benefit has been achieved.

Course Resources

Undergraduate Discussion Participation Scoring Guide

u03d1 - Learning Components

- Review the uses of EHRs in various settings.
- Identify critical success factors for EHR adoption.
- Apply the principles of effective composition.
- Determine the proper application of APA formatting requirements.

Unit 4 >> Workflow

Introduction

Workflow is a term used to describe the systematic organization of business processes so that each repetition of the processes reaches a desired result. In this unit, you will study the workflow within an EHR and explore different tools that can be used for workflow and process mapping. There are many different workflow mapping tools

available, each with advantages and disadvantages. Understanding when to use which tool to map a process or workflow is a valuable skill.

The EHR activity in this unit continues the workflow theme by having you follow a process to document a phone call. You will submit your completed activity as an assignment. After you complete the unit activities, you should be prepared to map this process using one of the workflow tools.

Look ahead to the scoring guide criteria for the Unit 5 assignment; you may also wish to begin your search for an EHR implementation case study that you can use for that assignment.

Learning Activities

u04s1 - Studies

Readings

Read the following pages from your text *Health IT and EHRs: Principles and Practice* (6th ed.):

- Chapter 5, "Healthcare Workflow and Process Mapping," pages 125–156.
- Chapter 6, "Change Management for Health IT," pages 157–178.

Read the following articles from the Capella University Library:

- Fleming, N. S., Becker, E. R., Culler, S. D., Cheng, D., McCorkle, R., da Graca, B., & Ballard, D. J. (2014). [The impact of electronic health records on workflow and financial measures in primary care practices](#). *Health Services Research, 49*, 405–420. doi:10.1111/1475-6773.12133
- Le, P. N. (2013). [Strategic interoperability](#). *Health Management Technology, 34*(10), 16.
- Ramaiah, M., Subrahmanian, E., Sriram, R. D., & Lide, B. B. (2012, Spring). [Workflow and electronic health records in small medical practices](#). *Perspectives in Health Information Management, 1–16*.
- van der Velde, E. T., Foeken, H., Witteman, T. A., van Erven, L., & Schaliij, M. J. (2012). [Integration of data from remote monitoring systems and programmers into the hospital electronic health record system based on international standards](#). *Netherlands Heart Journal, 20*(2), 66–70.

Multimedia

View the following video at the link provided:

- Data Transformed. (2013). [Textual ETL demonstration: How unstructured data can become structured](#) [Video]. Retrieved from <http://www.youtube.com/watch?v=KthRyB87UMI>

u04s1 - Learning Components

- Outline the steps in workflow process improvement.
- Describe a migration plan for an EHR.

- Explain the purpose and the importance of a needs assessment.
- Assess the relevance and credibility of information sources.

u04s2 - EHR Activity

Use your EHR Go account to complete the following activity:

- [Documenting a Patient Phone Call](#).

Download and save your document to submit as an assignment in this unit.

If you need help with your EHR Go account, please contact the [EHR Go help desk](#) or phone at 1-877-907-2186.

u04s2 - Learning Components

- Practice EHR skills.
- Encounter EHR functions in course activities and in case studies.

u04a1 - EHR Activity Submission

Submit the work you downloaded after completing the following EHR lesson: Documenting a Patient Phone Call.

Course Resources

[Documenting a Patient Phone Call](#)

u04d1 - Workflow and Process Mapping Tools

Compare at least two different workflow or process mapping tools discussed in the readings for this unit.

Your initial post must use at least one scholarly or health care industry-recognized resource, and include an in-text citation and its related reference, following current APA format guidelines.

Response Guidelines

Read the posts of your peers and choose one of the tools described in a post. Using one of the workflow or process mapping tools presented by a peer, display a simple process such as changing a tire or washing dishes.

Course Resources

Undergraduate Discussion Participation Scoring Guide

u04d1 - Learning Components

- Outline the steps in workflow process improvement.
- Describe a migration plan for an EHR.
- Explain the purpose and the importance of a needs assessment.
- Apply the principles of effective composition.
- Determine the proper application of APA formatting requirements.

u04d2 - Workflow Process Map Example

Explain and provide at least one example of why it is important to map the current workflow process before implementing a change.

Your initial post must use at least one scholarly or health care industry-recognized resource, and include an in-text citation and its related reference, following current APA format guidelines.

Response Guidelines

Read the posts of your peers and respond to at least one post. Taking one of your peer's examples, describe how the workflow mapping can be used to create a migration plan or a needs assessment.

Course Resources

Undergraduate Discussion Participation Scoring Guide

u04d2 - Learning Components

- Outline the steps in workflow process improvement.
- Describe a migration plan for an EHR.
- Explain the purpose and the importance of a needs assessment.
- Apply the principles of effective composition.
- Determine the proper application of APA formatting requirements.

Introduction

Take a minute to think about this scenario:

The hospital where you work spent more than 1 million dollars designing and developing an EHR system. However, hospital leadership decided not to provide training to the employees because, well, in today's technology-oriented society, everyone knows how to use computers, right? The first day the system went live, everyone used paper records. Nothing was documented in the brand new EHR system.

What went wrong here?

In this unit, you will build on your knowledge of the systems development life cycle (SDLC) to answer this and other questions. You will explore the design, implementation, and maintenance phases of the life cycle and how they interact with each other. Other topics are the importance of training with a new or updated system, as well as the importance of system maintenance.

You will complete and submit an EHR activity about meaningful use, and a case study analysis assignment focused on the SDLC.

Learning Activities

u05s1 - Studies

Readings

Read the following pages from your text *Health IT and EHRs: Principles and Practice* (6th ed.):

- Chapter 8, "Health IT Project Management: Roles in Designs and Implementation," pages 213–248.
- Chapter 9, "Health IT System Implementation, Training, and Ongoing Maintenance," pages 249–280.

Read the following articles from the Capella University Library:

- Ghorbani, N., Ahmadi, M., Sadoughi, F., & Ghanei, M. (2012). [Developing data elements for research information system in health: A starting point for systems integration](#). *Iranian Journal of Public Health*, 41(12), 30–39.
- Phansalkar, S., van der Sijs, H., Tucker, A. D., Desai, A. A., Bell, D. S., Teich, J. M., . . . Bates, D. W. (2013). [Drug-drug interactions that should be non-interruptive in order to reduce alert fatigue in electronic health records](#). *Journal of the American Medical Informatics Association*, 20(3), 489–493.
- Sidebottom, A. C., Collins, B., Winden, T. J., Knutson, A., & Britt, H. R. (2012). [Reactions of nurses to the use of electronic health record alert features in an inpatient setting](#). *Computers, Informatics, Nursing*, 30(4), 218–226.

u05s1 - Learning Components

- Describe the characteristics of a successful EHR implementation.
- Describe data types.
- Explain data formats.

u05s2 - EHR Activity

Use your EHR Go account to complete the following activity:

- [Meaningful Use and the Hospital EHR](#).

Download and save your results to submit as an assignment in this unit.

If you need help with your EHR Go account, please contact the [EHR Go help desk](#) or phone at 1-877-907-2186.

u05s2 - Learning Components

- Practice EHR skills.
- Encounter EHR functions in course activities and in case studies.

u05a1 - EHR Activity Submission

Submit the work you downloaded after completing the following EHR lesson: Meaningful Use and the Hospital EHR.

Course Resources

[Meaningful Use and Provider Performance](#)

u05a2 - EHR Life Cycle

For this assignment, you will choose another case study. This time, choose a study that allows you to focus on various aspects of system development life cycle (SDLC). Be sure to complete all assigned EHR course activities

before you complete this assignment, so that you can add perspective from your growing EHR knowledge and skills to your analysis.

Instructions

Choose a case study from one of the links provided; provide the citation in APA format; and give an overview of the case study you chose. Based on your reading of the case study, your experience in using the EHR in the course, and further research in industry or scholarly resources, write your case study analysis to meet the following criteria:

- Identify the stages of the system development life cycle (SDLC).
- Identify the requirements for a successful EHR implementation.
 - Explain why this EHR implementation was or was not successful. What should have been done differently for a successful implementation?
- Evaluate a migration plan for an EHR implementation.
 - Explain the migration path by identifying the process steps used to implement the EHR in the case study.
- Evaluate workflow and needs assessment in relation to EHR implementation.
 - Assess whether the needs assessment process was adequate.
 - Identify areas for improvement in the workflow process. Include your EHR experience in this course.

Submission Requirements

- Page length: 3–5 pages.
- References: Follow APA style and format guidelines for references and citations.
- Writing: Create a document that is clearly written and generally free of grammatical errors.

Course Resources

[Success stories.](#)

[Case studies](#)

[A Summary of 14 Case Studies to Guide Michigan Physicians \[PDF\]](#)

[Capella Library Databases \(search PubMed\)](#)

[APA Style and Format](#)

Select one stage of the system development life cycle (SDLC) that you feel is important. Explain the stage, and explain why you think this stage is important.

Your initial post must use at least one scholarly or health care industry-recognized resource, and include an in-text citation and its related reference, following current APA format guidelines.

Response Guidelines

Select the post of a peer who explained a different stage than the one you selected, and compare the two stages. What would happen if either stage was missed or skipped during the development process?

Course Resources

Undergraduate Discussion Participation Scoring Guide

u05d1 - Learning Components

- Review the stages of the system development life cycle.

Unit 6 >> Standards

Introduction

What would happen if you were visiting another state or another country, and suddenly became extremely ill? What if you had an accident, became unresponsive, and could not share your medical history with those who were treating you? How would the care provider obtain your medical history such as allergies, current medications, or chronic illnesses?

As you have learned in this class, one of the goals of the EHR is interoperability, where various EHR systems can communicate with each other. Interoperability implies that no matter where you are, care providers will be able to obtain essential medical information about you. In order to make this a reality, standards must be in place. Standards are the rules or guidelines that direct the structure of the EHR and the terminology used in the EHR system. In this unit, we will be looking at various standards and how they are applied in the EHR.

You will complete an assignment about standards in the EHR. You may also wish to prepare for the Unit 7 assignment by searching for a case study for analysis.

Learning Activities

Readings

Read the following pages from your text *Health IT and EHRs: Principles and Practice* (6th ed.):

- Chapter 10, "Data Infrastructure," pages 281–324.
- Chapter 11, "Information Technology," pages 325–360.

Read the following articles from the Capella University Library:

- Bhansali, N., & Gupta, S. (2014). [The engine of health information exchange](#). *Journal of Management Policy and Practice*, 15(3), 30–35.
- Callan, K., Fuller, J., Galterio, L., Just, B., & Reich, K. (2014). [Making health information exchange work](#). *Journal of AHIMA*, 85(11), 32–36.
- Dibley, L. (2011). [Analysing narrative data using McCormack's lenses](#). *Nurse Researcher*, 18(3), 13–19.
- Kallem, C., Richesson, R., DuLong, D., Sison, L., Van Dyke, P., & Mon, D. T. (2011). [Advancing secondary data uses through data standards](#). *Journal of the American Health Information Management Association*, 82(4), 38–39.

Read the following articles from the Internet:

- HealthIT.gov. (2014). [Standards and certification regulations](#). Retrieved from <http://healthit.gov/policy-researchers-implementers/standards-and-certification-regulations>

u06s1 - Learning Components

- Explain the purpose of data modeling.
- Describe data types.
- Determine data reporting requirements.
- Assess the relevance and credibility of information sources.

u06s2 - EHR Activity

Use your EHR Go account to complete the following activity:

- [EHR Documentation Standards](#).

Download and save your results. You will submit it as an assignment in this unit.

If you need help with your EHR Go account, please contact the [EHR Go help desk](#) or phone at 1-877-907-2186.

u06s2 - Learning Components

- Practice EHR skills.
- Encounter EHR functions in course activities and in case studies.

u06a1 - EHR Activity Submission

Submit the work you downloaded after completing the following EHR lesson: EHR Documentation Standards.

Course Resources

[EHR Documentation Standards](#)

u06d1 - EHR Standards Organization

Identify an organization that is currently involved in the setting of standards for EHR systems. Select and explain one standard this specific organization addresses.

Your initial post must use at least one scholarly or health care industry-recognized resource, and include an in-text citation and its related reference, following current APA format guidelines.

Response Guidelines

Select a peer's post with a different organization than the one you had selected. Compare the organization standard that you selected to a standard that your peer had selected. Do they work together? Are they dependent upon each other?

Course Resources

Undergraduate Discussion Participation Scoring Guide

u06d1 - Learning Components

- Identify organizations that set EHR standards.
- Apply the principles of effective composition.
- Determine the proper application of APA formatting requirements.

u06d2 - Data Dictionary

Why is it important to have a data dictionary? What function does a data dictionary serve?

Your initial post must use at least one scholarly or health care industry-recognized resource, and include an in-text citation and its related reference, following current APA format guidelines.

Response Guidelines

Building upon a peer's response, explain how data dictionaries and standards help with the integration among applications.

Course Resources

Undergraduate Discussion Participation Scoring Guide

u06d2 - Learning Components

- Discuss the purpose of a data dictionary.
- Determine data reporting requirements.
- Explain data formats.
- Apply the principles of effective composition.
- Determine the proper application of APA formatting requirements.

Unit 7 >> Privacy and Security

Introduction

One of the biggest concerns with the EHR system is privacy and security. Privacy is an individual's right to control the use and access to their protected health information. Security refers to the measures used to ensure privacy. Security also ensures confidentiality, integrity, and availability.

This unit explores the concepts of privacy and security, which are governed by the Health Insurance Portability and Accountability Act (HIPAA). HIPAA provides the standards for privacy and security in health care. Under this federal law, all health care information is confidential and should be shared only with authorized personnel.

In this unit, you will complete a case study analysis about an EHR implementation.

Learning Activities

u07s1 - Studies

Readings

Read the following pages from your text *Health IT and EHRs: Principles and Practice* (6th ed.):

- Chapter 12, "Health IT Privacy and Security," pages 361–394.

Read the following articles from the Capella University Library:

- Sujansky, W., & Kunz, D. (2015). [A standard-based model for the sharing of patient-generated health information with electronic health records](#) [PDF]. *Personal and Ubiquitous Computing*, 19(1), 9–25.
- Yannakoulis, N. (2011). [Understanding identifiability in secondary health data](#). *Canadian Journal of Public Health*, 102(4), 291–293.

Multimedia

View the following video at the link provided:

- infoTGHN. (2014). [Big data in health and human welfare research: Using Splunk software](#) [Video]. Retrieved from <http://www.youtube.com/watch?v=l4siSfvtA5A>

u07s1 - Learning Components

- Describe security features in an EHR.
- Identify organizations that set EHR standards.
- Describe the framework and conceptual model of the components of an EHR.
- Assess the relevance and credibility of information sources.

u07s2 - EHR Activity

Use your EHR Go account to complete the following activity:

- [Introduction to Privacy and Security](#).

Download and save the work you complete to submit as your assignment in this unit.

If you need help with your EHR Go account, please contact the [EHR Go help desk](#) or phone at 1-877-907-2186.

u07s2 - Learning Components

- Practice EHR skills.

u07a1 - EHR Activity Submission

Submit the work you downloaded after completing the following EHR lesson: Introduction to Privacy and Security.

Course Resources

[Introduction to Privacy and Security](#)

u07a2 - EHR Standards

For this assignment, choose a case study that allows you to focus on standards for EHR data and technology, as well as the organizations that set the standards. Be sure to complete all assigned EHR course activities before you complete this assignment, so that you can add perspective from your growing EHR knowledge and skills to your analysis.

Instructions

Choose a case study from one of the links provided; provide the citation in current APA style and format; and give an overview of the case study you chose. Based on your reading of the case study, your experience in using the EHR in the course, and further research in industry or scholarly resources, write your case study analysis to meet the following criteria:

- Identify standards that govern EHR systems and the organizations that set them.
 - Select one vocabulary standard and one classification standard and explain how the case study implemented that standard.
- Distinguish types of data, data formats, and data reporting requirements.
- Describe the purpose of data modeling and data dictionaries.
 - Explain how the case study addressed the following components: data architecture, databases, data warehouses, data modeling, data dictionary, and metadata.
 - Explain the importance of data usability and quality.
 - Explain the importance of consistency and design.
- Determine standards for integration among applications.
 - Using your experiences with the assigned EHR course activities, identify documentation strategies that have been used. Explain how these strategies have assisted in the integration of data across applications.

Submission Requirements

- Page length: 3–5 pages.
- References: Follow current APA style and format for references and citations.
- Writing: Create a document that is clearly written and generally free of grammatical errors.

Course Resources

[Success stories.](#)

[Case studies](#)

[A Summary of 14 Case Studies to Guide Michigan Physicians \[PDF\]](#)

[Capella Library Databases \(search PubMed\)](#)

[APA Style and Format](#)

u07d1 - Secure and Efficient Data-Sharing

What are some strategies for assuring that EHRs promote secure and efficient patient data-sharing among personal health records (PHRs) and health information exchanges (HIEs)?

Your initial post must use at least one scholarly or health care industry-recognized resource, and include an in-text citation and its related reference, following current APA format guidelines.

Response Guidelines

Select a peer's response, and address this question: As a health care consumer, do you feel the security offered by a strategy or strategies presented is or are sufficient? Why or why not? How can a strategy be improved?

Course Resources

[Undergraduate Discussion Participation Scoring Guide](#)

u07d1 - Learning Components

- Describe security features in an EHR.
- Identify organizations that set EHR standards.
- Apply the principles of effective composition.

- Determine the proper application of APA formatting requirements.

Unit 8 >> Interoperability

Introduction

Digging deeper into interoperability in this unit, you will explore technical standards and established protocols related to interoperability. You will also look at how interoperability works by exploring a health information exchange (HIE) organization and understanding its architecture and services provided.

Does your area have an HIE or a regional health information organization (RHIO)? Think about the possibilities.... could there be a global health information exchange someday?

Your EHR assignment for this unit focuses on chart deficiencies. You may wish to also prepare by researching case studies for the Unit 10 assignment, which will require a comparison of two EHR implementation case studies.

Learning Activities

u08s1 - Studies

Readings

Read the following pages from your text *Health IT and EHRs: Principles and Practice* (6th ed.):

- Chapter 13, "Interoperability," pages 395–432.
- Chapter 18, "Enterprise Content and Record Management as an EBR Bridge Technology," pages 567–592.

Read the following articles from the Capella University Library:

- Commins, J. (2014). [EHR interoperability remains elusive](#). *The Doctors Office*, 33(2), 11.
- Mace, S. (2014, September). [Toward health information exchange](#). *Health Leaders*, 38, 40–41.
- [Mostashari: Demand EHR interoperability](#). (2012). *Medical Economics*, 89(21), 16.
- Williams, J. S., & Jacobs, B. (2012). [Achieving interoperability: What's happening out there?](#) *Biomedical Instrumentation & Technology*, 46(1), 14–23.

u08s1 - Learning Components

- Review the uses of EHRs in various settings.
- Explain the purpose of data modeling.
- Describe the characteristics of a successful EHR implementation.
- Assess the relevance and credibility of information sources.

u08s2 - EHR Activity

Use your EHR Go account to complete the following activity:

- [Introduction to Chart Deficiencies](#).

Download and save the work you complete to submit as your assignment in this unit.

If you need help with your EHR Go account, please contact the [EHR Go help desk](#) or phone at 1-877-907-2186.

u08s2 - Learning Components

- Practice EHR skills.
- Encounter EHR functions in course activities and in case studies.

u08a1 - EHR Activity Submission

Submit the work you downloaded after completing the following EHR lesson: Introduction to Chart Deficiencies.

Course Resources

[Introduction to Chart Deficiencies](#)

u08d1 - Interoperability Challenges

Identify and explain a challenge to EHR interoperability.

Your initial post must use at least one scholarly or health care industry-recognized resource, and include an in-text citation and its related reference, following current APA format guidelines.

Response Guidelines

Provide a possible solution to an interoperability challenge presented by one of your peers.

Course Resources

u08d1 - Learning Components

- Describe security features in an EHR.
- Describe the characteristics of a successful EHR implementation.
- Discuss the purpose of a data dictionary.
- Apply the principles of effective composition.
- Determine the proper application of APA formatting requirements.

u08d2 - EHR Implementation Requirements

Select a health care setting and identify at least two requirements for a successful EHR implementation within that specific setting.

Your initial post must use at least one scholarly or health care industry-recognized resource, and include an in-text citation and its related reference, following current APA format guidelines.

Response Guidelines

Select a peer's post with a different setting from the one that you chose. Is your requirement also a requirement in your peer's setting? Why or why not?

Course Resources

Undergraduate Discussion Participation Scoring Guide

u08d2 - Learning Components

- Review the uses of EHRs in various settings.
- Describe the characteristics of a successful EHR implementation.

Unit 9 >> EHRs in Various Settings

Introduction

Digging deeper into interoperability in this unit, you will explore technical standards and established protocols related to interoperability. You will also look at how interoperability works by exploring a health information exchange (HIE) organization and understanding its architecture and services provided.

Does your area have an HIE or a regional health information organization (RHIO)? Think about the possibilities... could there be a global health information exchange someday?

Your EHR assignment for this unit focuses on chart deficiencies. You may wish to also prepare by researching case studies for the Unit 10 assignment, which will require a comparison of two EHR implementation case studies.

Learning Activities

u09s1 - Studies

Readings

Read the following pages from your text *Health IT and EHRs: Principles and Practice* (6th ed.):

- Chapter 14, "Optimizing the Acute Care EHR," pages 433-480.
- Chapter 15, "Optimizing the Ambulatory Care EHR," pages 481-516.
- Chapter 16, "Specialty-Specific EHR," pages 517-540.

Read the following articles from the Capella University Library:

- Narcisse, M., Kippenbrock, T. A., Odell, E., & Buron, B. (2013). [Advanced practice nurses' meaningful use of electronic health records](#). *Applied Nursing Research*, 26(3), 127-132.
- Ronquillo, J. G. (2012). [How the electronic health record will change the future of health care](#). *The Yale Journal of Biology and Medicine*, 85(3), 379-386.
- Shapiro, J. S., Mostashari, F., Hripcsak, G., Soulakis, N., & Kuperman, G. (2011). [Using health information exchange to improve public health](#). *American Journal of Public Health*, 101(4), 616-623.

u09s1 - Learning Components

- Review examples of EHR adoption successes and failures.
- Review the uses of EHRs in various settings.
- Assess the relevance and credibility of information sources.

u09s2 - EHR Activity

Use your EHR Go account to complete the following activity:

- [New Patient Registration Insurance Garcia](#).

Download and save the work you complete to submit as your assignment in this unit.

If you need help with your EHR Go account, please contact the [EHR Go help desk](#) or phone at 1-877-907-2186.

u09s2 - Learning Components

- Practice EHR skills.
- Encounter EHR functions in course activities and in case studies.

u09a1 - EHR Activity Submission

Submit the work you downloaded after completing the following EHR lesson: New Patient Registration Insurance Garcia.

Course Resources

[New Patient Registration A](#)

u09a2 - EHRs and Interoperability

For this assignment, select two case studies from different health care settings for analysis. This analysis focuses on issues surrounding how EHRs interact with patients, other health information systems, and others outside the health care organization. Be sure to complete all assigned EHR course activities before you complete this assignment, so that you can add perspective from your growing EHR knowledge and skills to your analysis.

Instructions

Choose the two case studies from this unit's resources provided; provide the citations in current APA style and format; and give an overview of each case study you chose. Based on your reading of the case studies, your experience in using the EHR in the course, and further research in industry or scholarly resources, write your case study analysis to meet the following criteria:

- Compare the EHR applications.
 - Compare and contrast the two applications in your studies, as well as the EHR you used in course activities.
- Evaluate strategies for assuring that EHRs promote secure and efficient patient data-sharing among personal health records (PHRs) and health information exchanges (HIEs).
 - Identify the security measures within each system.
 - Explain if interoperability was or was not achieved.

- Identify if the EHR system would be part of an HIE.
- Identify if the EHR system had a patient portal or other means for sharing information with a patient.
- Describe ways to optimize the use of EHR data within the healthcare environment.
 - Identify ways that each system could be optimized.
 - Using your experiences with the EHR course activities, explain how this system could be optimized.
- Summarize the challenges to EHR adoption.
 - Compare and contrast the EHR challenges faced in both environments
- Identify the requirements for a successful EHR implementation.
 - Compare and contrast the requirements of successful HER implementation in both environments.
- Identify the organizations involved in setting standards for EHR systems.
 - Identify standards that would need to be addressed in both environments.

Submission Requirements

- Page length: 4–6 pages.
- References: Provide references and citations in current APA style and format.
- Writing: Create a document that is clearly written and generally free of grammatical errors.

Course Resources

[Success stories.](#)

[Case studies](#)

[A Summary of 14 Case Studies to Guide Michigan Physicians \[PDF\]](#)

[Capella Library Databases \(search PubMed\)](#)

[APA Style and Format](#)

u09d1 - EHR Optimization in Health Care Environments

Select a health care environment such as a physician's office, clinic, or hospital and provide an example of how to optimize the use of the EHR within that environment.

Your initial post must use at least one scholarly or health care industry-recognized resource, and include an in-text citation and its related reference, following current APA format guidelines.

Response Guidelines

Select a peer's post with a different setting from the one that you chose. Would your optimization plan work in your peer's setting? Why or why not?

Course Resources

Undergraduate Discussion Participation Scoring Guide

u09d1 - Learning Components

- Review examples of EHR adoption successes and failures.
- Review the uses of EHRs in various settings.
- Apply the principles of effective composition.
- Determine the proper application of APA formatting requirements.

Unit 10 >> Reflections

Introduction

One of the results of widespread adoption of EHR technology is that the health care industry and regulators are getting a better sense of what works and what does not. The industry as a whole has discovered that health care providers are more or less unanimously annoyed with many aspects of how EHRs have been designed and implemented.

Understanding the entire implementation process and getting it right the first time is key to having provider buy-in for an EHR. This unit focuses on reviewing the entire implementation process.

Your EHR activity in this unit is about evidence-based practice.

Learning Activities

u10s1 - Studies

Readings

Read the following articles from the Internet:

- HealthIT.gov. (2017). [About the ONC Health IT Certification Program](https://www.healthit.gov/policy-researchers-implementers/about-onc-health-it-certification-program). Retrieved from <https://www.healthit.gov/policy-researchers-implementers/about-onc-health-it-certification-program>

- HealthIT.gov. (2015). [Benefits of electronic health records \(EHRs\)](https://www.healthit.gov/providers-professionals/benefits-electronic-health-records-ehrs). Retrieved from <https://www.healthit.gov/providers-professionals/benefits-electronic-health-records-ehrs>
- HealthIT.gov. (2013). [EHR implementation lessons from the field](https://www.healthit.gov/providers-professionals/ehr-implementation-lessons-field). Retrieved from <https://www.healthit.gov/providers-professionals/ehr-implementation-lessons-field>
- HealthIT.gov. (2013). [How to implement EHRs](https://www.healthit.gov/providers-professionals/ehr-implementation-steps). Retrieved from <https://www.healthit.gov/providers-professionals/ehr-implementation-steps>

u10s2 - EHR Activity

Use your EHR Go account to complete the following activity:

- [Evidence Based Practice \(VTE\)](#).

In order to complete this activity successfully, you will need to download and use the resources provided along with the lesson.

Download and save the work you complete to submit as your assignment in this unit.

If you need help with your EHR Go account, please contact the [EHR Go help desk](#) or phone at [1-877-907-2186](tel:1-877-907-2186).

u10s2 - Learning Components

- Practice EHR skills.
- Encounter EHR functions in course activities and in case studies.

u10a1 - EHR Activity Submission

Submit the work you downloaded after completing the following EHR lesson: Evidence Based Practice (VTE).

Note: Remember to use the resources provided along with the lesson in order to answer the questions in this activity.

Course Resources

[Evidence Based Practice \(VTE\)](#)

u10d1 - Standards and Interoperability

How do standards aid in the development of interoperability? What is a future possibility with the use or implementation of EHR interoperability?

Your initial post must use at least one scholarly or health care industry-recognized resource, and include an in-text citation and its related reference, following current APA format guidelines.

Response Guidelines

How does your future possibility compare to a peer's future possibility?

Course Resources

Undergraduate Discussion Participation Scoring Guide

u10d1 - Learning Components

- Identify organizations that set EHR standards.

u10d2 - EHR Implementation and You

How does understanding the implementation of an EHR help you to become a better health care consumer?

Your initial post must use at least one scholarly or health care industry-recognized resource, and include an in-text citation and its related reference, following current APA format guidelines.

Response Guidelines

Build on a peer's response to explain how implementation or other factors affect the development of personal health records (PHRs).

Course Resources

Undergraduate Discussion Participation Scoring Guide