## Weeks 1 & 2 Overview

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# Study Guide

| Message | **Welcome to Weeks 1 & 2 of Understanding Patient Data!** |
| --- | --- |
| Reminders | * See discussion rubric for grading criteria.   **To View Course Lectures:**   * To view the voice-over lectures for your course, click on the **Media Gallery** in the *Course Navigation Menu*. * To download lectures (if available) in PDF file format, click on **Download Lectures in PDF File Format**, located in the *Introduction* module. |
| Due Dates | * **Self-Introduction Discussion:**   + Your initial post is due by 11:59 PM ET on Saturday of Week 1.   + Your replies are due by 11:59 PM ET on Monday of Week 1. * **DQ 1:**   + Your initial post is due by 11:59 PM ET on Saturday of Week 2.   + Your replies are due by 11:59 PM ET on Monday of Week 2. |

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# Objectives

* The student will be able to define patient data.

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# Instructions

**Lesson 1**

1. Read the following required reading articles:

* Dhar, V. (2014). Big data and predictive analytics in healthcare. *Big Data, 2*(3), BD113-BD116.doi: 10.1089/big.2014.1525
* Roski, J., Bo-Linn, G. W., & Andrews, T. A. (2014).Creating value in health care through big data: Opportunities and policy implications. *Health Affairs, 33*(7), 1115–1122. doi: 10.1377/hlthaff.2014.0147

1. View the following **Presentation**:

* Online PowerPoint presentation: *Developing an Analytics Strategy* [Online Presentation] available at:[*http://HealthcareAnalyticsBook.com*](http://healthcareanalyticsbook.com)
* Look under “**Book** **Resources and Links**”…
* Then click on **“Downloads and Special Content”**
* ***Enter the Password*** (password found in Strome, T. (2013). **p.219**
* Scroll down to ***Presentation – Developing an Analytics Strategy that Drives Healthcare Improvement***

1. **Self-Introduction Discussion.** Self-Introduction Discussion and Course Expectations. Tell us about you. Create your initial post on the Self-introduction Discussion board following this guide: *Please address any or all of the following (suggestions) that you would like to share with the class by way of introduction.*

* Your interest and experience with healthcare data.
* Your background, in general
* Your experience with online learning
* Your expectations from this course.
* Your interest and experience interfacing with healthcare data.

**NOTE: *This discussion will not be graded, but it is required!***

Post your initial response by Saturday at 11:59 pm. Respond to the posts of three (3) individual peers on at least two (2) separate days before Monday at 11:59 pm.

**REMINDER:** Each student is expected to work on this individuallyand within the confines of the University’s *Academic Integrity Policy* (see [www.rowanonline.com](http://www.rowanonline.com) for University policy details).

**Lesson 2:**

1. Required reading, text(s):

* Strome, T. (2013). Chapter 2 – Fundamentals of healthcare analytics (pp. 15-28). In T. L. Strome, *Healthcare analytics for quality and performance improvement*. Hoboken, NJ: Wiley Publishers.
* Brown, M. S. (2014). Chapters 2 – A day in your life as a data miner (pp. 17-48). In M. S. Brown, *Data mining for dummies.* Hoboken, NJ: Wiley Publishers.

1. Required reading, articles:

* Bate, D. W., Saria, S., Ohno-Machado, L., Shah, A., & Escobar, G. (2014). Big data in healthcare: Using analytics to identify and manage high-risk and high-cost patients*. Health Affairs, 33*(7), 1123-1131. doi:10.1377/hltaff.2014.0041
* Elder Research. (2018). [Evaluation of the EEOC’s Data Analytics Activities Final Report OIG Report Number 2017-02-EOIG](https://oig.eeoc.gov//sites/default/files/audits/EEOC%20Data%20Analytics%20Report%20Final%20.pdf).
* Hiller, J. S. (2016, Summer). Healthy predictions? Questions for data analytics in healthcare. *American Journal of Business Law, 53*(2), 1-64.

1. View the following Lecture/Voice over PowerPoint:

* Lecture 1 – *Introduction to patient data*

1. **DQ 1.** Create your initial post on the DQ 1 Discussion Board in response to the following questions. Support your responses with a referenced rationale.

* Identify and explain the cultural attributes necessary to drive an organization’s maturity and growth through the use of analytic findings and outcomes.
* The CRoss Industry Standard Process for Data Mining (CRISP-DM) is a comprehensive model for data mining projects; identify at least two examples where individual creativity is important in the data science process.
* Provide an example of the risk and benefits of massive data collection about personal health and individual social status.

Post your initial response by Saturday at 11:59 pm. Respond to the posts of three (3) individual peers on at least two (2) separate days before Monday at 11:59 pm.

Please be sure to reference the Discussion Questions guide in the Assignment Outline section of the Syllabus for further assignment details.

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