



## news

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### AHIMA Book Highlights Data Analytics

*Data Analytics in Healthcare Research: Tools and Strategies*

CHICAGO – Dec. 23, 2015 – Proficiency in data analytics is increasingly important for all health information managers and health informaticians.

A new [American Health Information Management Association](#) (AHIMA) book, [Data Analytics in Healthcare Research: Tools and Strategies](#) includes case studies on how to conduct health data analytics and secondary research studies on the topic. The case studies provide insights on databases and statistical software for data extraction, normalization, transformation, visualization, and statistical analyses.

By combining open-source data and open-source analytic tools along with online datasets, authors David T. Marc, MBS, CHDA, and Ryan H. Sandefer, MA, CPHIT, provide faculty and students an opportunity to experience big data from a hands-on perspective.

Key features of the book include:

- Research and analytic case studies, including step-by-step instructions for analyzing healthcare data and using statistical techniques
- Remote access to a Structured Query Language (SQL) healthcare-related database for big data analysis
- Access to database queries and statistical platform scripts for use in the classroom
- Use of a database consisting of open-source data from a variety of federal agencies including the Health Resources and Services Administration, Office of the National Coordinator, Centers for Medicare and Medicaid Services, and the US Census Bureau
- Instructor materials include PowerPoint slides, lab exercises, and a 10-question test bank for each chapter

- Uses MySQL Workbench, Microsoft Excel, R, and RStudio for statistical analysis and data visualization

#### About the Authors:

Marc is an assistant professor and the graduate program director for health informatics at the College of St. Scholastica in the Department of Health Informatics and Information Management. A speaker and researcher with a breadth of experience around health data analytics, Marc previously worked at a biotech company where he developed predictive data models for the diagnosis of neurological and immunological diseases.

Sandefer is an assistant professor and chair of the health informatics and information management department at the College of St. Scholastica. An elected board member and the chair of the AHIMA Council for Excellence in Education (CEE), Sandefer is the past-chair of the CEE's Research and Periodicals Workgroup, and currently sits on the AHIMA Foundation's Graduate Research Network.

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#### **About AHIMA**

The American Health Information Management Association (AHIMA) represents more than 101,000 health information professionals in the United States and around the world. AHIMA is committed to promoting and advocating for high quality research, best practices and effective standards in health information and to actively contributing to the development and advancement of health information professionals worldwide. AHIMA's enduring goal is quality healthcare through quality information. [www.ahima.org](http://www.ahima.org)