

CardioVascular
Institute



Beth Israel Deaconess
Medical Center



HARVARD MEDICAL SCHOOL
TEACHING HOSPITAL

Statistical Education Series

Fall, 2017

Changyu Shen

Richard A. and Susan F. Smith Center for Outcomes Research in Cardiology

Beth Israel Deaconess Medical Center

Harvard Medical School

Objectives

- What and why, not how
- Strong conceptual understanding of the basic principles in statistical inference
- Three major applications of statistical reasoning
 - Randomized trials
 - Observational studies
 - Predictions



Logistics

- Time: 12-1pm every other Tue
- Location: Baker 4 Conference Room
- Lunch will be provided
- Questions and comments can be sent to cshen1@bidmc.harvard.edu



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**Smith Center for Outcomes Research
in Cardiology**

Statistical Resources

- Textbooks

- Fundamentals of Biostatistics, 5th Edition, Duxbury Press (1999), ISBN: 0534370683
- Principles of Biostatistics, 2nd Edition, Duxbury Press (2000), ISBN: 0534229026
- Essentials of Medical Statistics, 2nd Edition, Blackwell Science Ltd. (2003), ISBN: 0865428719



Statistical Resources

- Articles in medical journals that explain statistics
 - The use of statistics in heart rhythm research: a review. Heart Rhythm 2015; 12: 1376-1386
 - BMJ Statistics Notes
 - Journal of Physiology Statistical Perspectives



Statistical Resources

- Harvard Catalyst Certificate in Applied Biostatistics
 - <http://harvardcatalyst.desire2learn.com>
 - 35-lecture series that covers a broad spectrum of topics
 - Online lecture that can be viewed anytime
 - FREE
- Harvard Catalyst Statistical Consultation
 - <http://catalyst.harvard.edu/services/biostatsconsult/>

