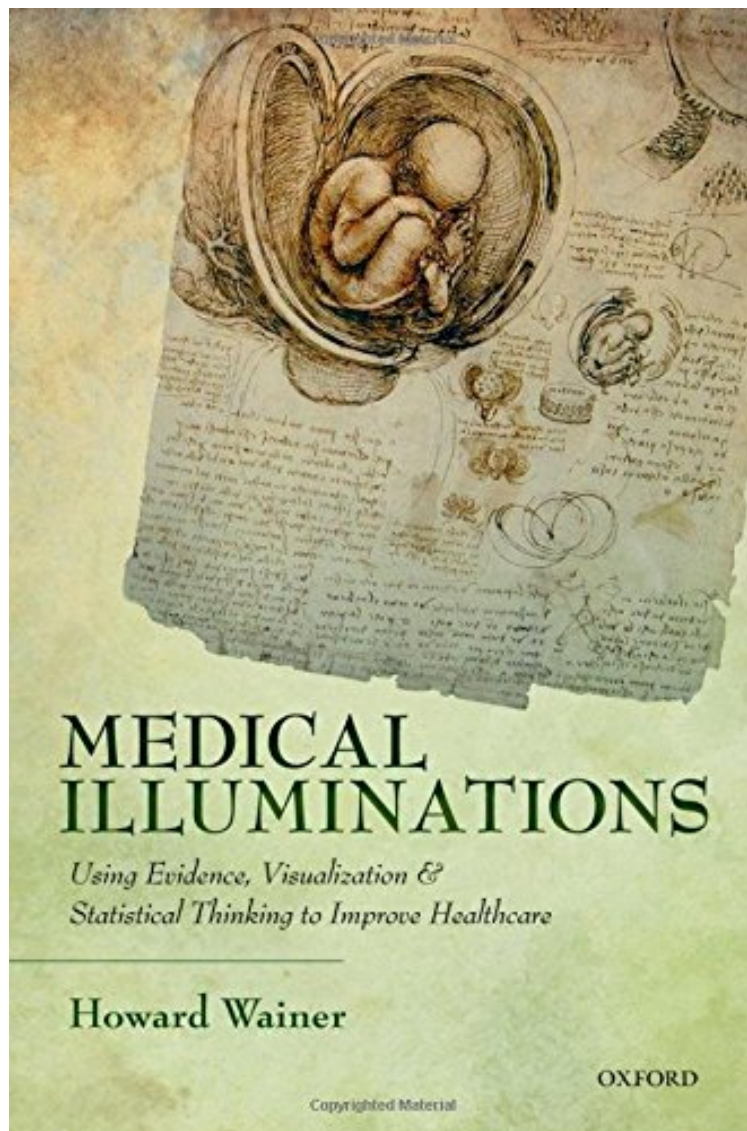


(Download pdf) Medical Illuminations: Using Evidence, Visualization and Statistical Thinking to Improve Healthcare

Medical Illuminations: Using Evidence, Visualization and Statistical Thinking to Improve Healthcare

Howard Wainer

*audiobook / *ebooks / Download PDF / ePub / DOC*



[Download](#)

[Read Online](#)

#1379893 in Books 2014-01-02 Original language: English PDF # 1 6.30 x .60 x 9.30l, 1.05 #File Name: 0199668795192 pages | File size: 51.Mb

Howard Wainer : Medical Illuminations: Using Evidence, Visualization and Statistical Thinking to Improve Healthcare before purchasing it in order to gauge whether or not it would be worth my time, and all praised Medical Illuminations: Using Evidence, Visualization and Statistical Thinking to Improve Healthcare:

2 of 2 people found the following review helpful. Look out Tufte, he's one up! By dpen This is an excellent book that

out-Tufte's Tufte! I have recommended it to several people including doctors and system consultants - anyone who needs to understand (or communicate using) data. Each chapter is eye-opening and examples of good and bad data presentation abound. Well done. 2 of 2 people found the following review helpful. In case you are wondering why the medical literature is so bad. By Dr. Feinman Among other important observations, the book points out how mind-numbing tables rather than informative figures make the medical literature unreadable. Of course, it's bad because of the poor science so maybe unreadable is by design or at least self-serving. 1 of 1 people found the following review helpful. A great book. By Mark J. Nicolich A great book. Lots of thoughts about statistics, data, and interpretation. Anyone interested in data interpretation and presentation will enjoy (and profit from) this book. Wainer is one of the giants of our time.

Is it sensible to screen for breast or prostate cancer? Should the locations of cancer clusters be made available to the general public? When a doctor wants to perform major surgery and there's no chance for a second opinion, do you agree? The answers to these questions are not as black and white as they may first appear. *Medical Illuminations* presents thirteen contemporary medical topics, from the diminishing value of mammograms to how to decide if a hip needs to be replaced, to understanding cancer maps. In each case it illustrates how modern tools of statistical thinking and statistical graphics can illuminate our understanding. The goals are to solve some vexing problems that seem perplexing, and to make both the problems and their solutions clear to a non-technical audience. The aim is to ignite in the reader an understanding of statistical thinking, which, though subtle, can be learned without going through arcane mathematics. And, moreover, that learning about how to think in this way provides a huge payoff in the deeper understanding of our complex world.

"*Medical Illuminations* offers ample substance along with sufficient piquant comments to ensure that readers reflect on every sentence. ... Wainer's inspirational set of commentaries on medical applications for statistics and visualization delivers meaningful lessons for beginners and experts. I highly recommend it." --ScienceAbout the Author Howard Wainer, Distinguished Research Scientist at the National Board of Medical Examiners Howard Wainer is a statistician and author; *Medical Illuminations* is his 20th book. His first two medical books (technical works in pediatrics) were published almost 40 years ago. He has been working primarily on medical topics since 2001 as the Distinguished Research Scientist of the National Board of Medical Examiners. At various times in his career he has taught at Princeton, The University of Chicago and the Wharton School of the University of Pennsylvania. He has a PhD from Princeton and is a fellow in the American Statistical Association and the American Educational Research Association. He has been the recipient of many awards for his broad ranging research and has served internationally on many editorial boards of leading statistical journals as well as a consultant to both government and industry. He has also written a column in the magazine *Chance* since 1990.