Secondary Analysis of Electronic Health Records

MIT Critical Data
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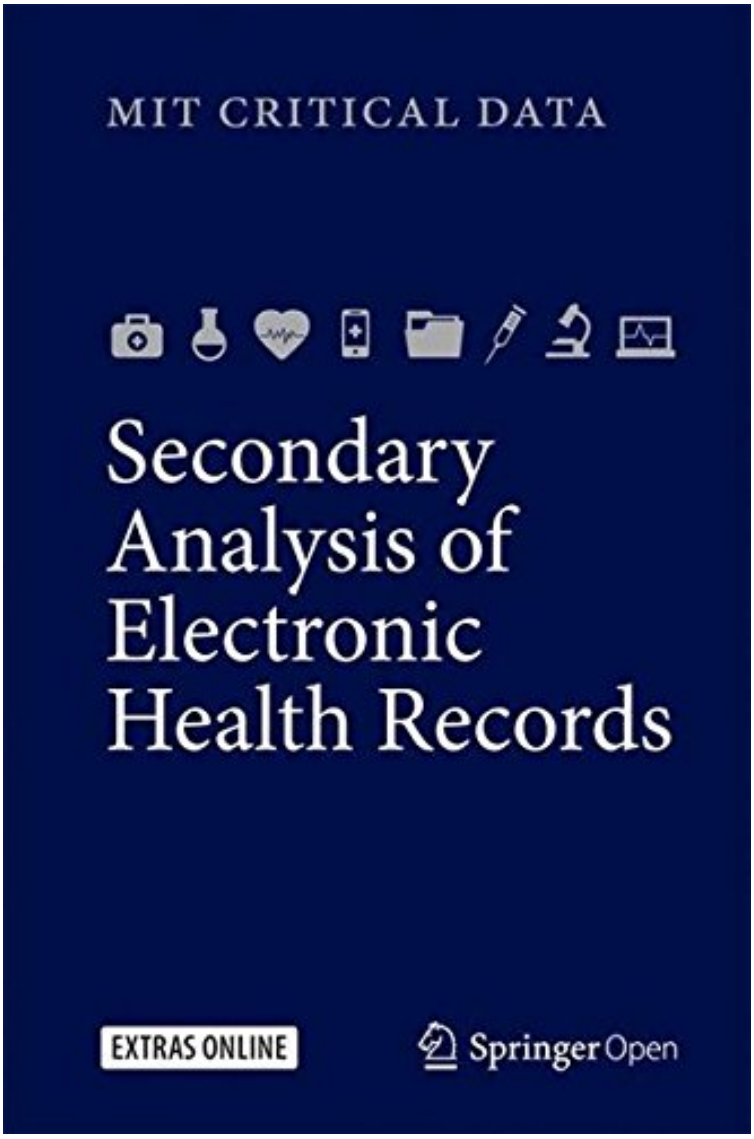

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MIT Critical Data : Secondary Analysis of Electronic Health Records before purchasing it in order to gage whether or not it would be worth my time, and all praised Secondary Analysis of Electronic Health Records:

This book trains the next generation of scientists representing different disciplines to leverage the data generated during routine patient care. It formulates a more complete lexicon of evidence-based recommendations and support

shared, ethical decision making by doctors with their patients. Diagnostic and therapeutic technologies continue to evolve rapidly, and both individual practitioners and clinical teams face increasingly complex ethical decisions. Unfortunately, the current state of medical knowledge does not provide the guidance to make the majority of clinical decisions on the basis of evidence. The present research infrastructure is inefficient and frequently produces unreliable results that cannot be replicated. Even randomized controlled trials (RCTs), the traditional gold standards of the research reliability hierarchy, are not without limitations. They can be costly, labor intensive, and slow, and can return results that are seldom generalizable to every patient population. Furthermore, many pertinent but unresolved clinical and medical systems issues do not seem to have attracted the interest of the research enterprise, which has come to focus instead on cellular and molecular investigations and single-agent (e.g., a drug or device) effects. For clinicians, the end result is a bit of a data desert when it comes to making decisions. The new research infrastructure proposed in this book will help the medical profession to make ethically sound and well informed decisions for their patients.

From the Back CoverAbout the AuthorMIT Critical DataMIT Critical Data consists of data scientists and clinicians from around the globe brought together by a vision to engender a data-driven healthcare system supported by clinical informatics without walls. In this ecosystem, the creation of evidence and clinical decision support tools is initiated, updated, honed and enhanced by scaling the access to and meaningful use of clinical data.Leo Anthony CeliLeo has practiced medicine in three continents, giving him broad perspectives in healthcare delivery. His research is on secondary analysis of electronic health records and global health informatics. He founded and co-directs Sana at the Institute for Medical Engineering and Science at the Massachusetts Institute of Technology. He also holds a faculty position at Harvard Medical School as an intensivist at the Beth Israel Deaconess Medical Center and is the clinical research director for the Laboratory of Computational Physiology at MIT. Finally, he is one of the course directors for HST.936 at MIT innovations in global health informatics and HST.953 secondary analysis of electronic health records.