

Innovative Approaches to Incorporating Ethics in Biostatistics Curricula

Association of Clinical and Translational Statisticians

Boston, Massachusetts

August 3, 2014

Innovative Approaches to Teaching Ethics in Biostatistics Curricula

Today's talks

- Shelley Hurwitz:
 - Introduction and Background
- Jeff Dawson:
 - Teaching Statistical Ethics via Lectures, Group Discussions, and Peer Mentoring
- Howard Cabral:
 - A Graduate Course on Ethics in Biostatistical Practice
- Kathryn Chaloner:
 - Topics for a Statistical Ethics Course: Are Your Analyses Reproducible? Is Your Clinical Trial Design Ethical? Are Mendel's Data Too Good?
- Group Discussion

Introduction and Background

Shelley Hurwitz

Harvard CTSA

Brigham and Women's Hospital

August 3, 2014

Ethical Practice of Biostatistics and Epidemiology in Clinical and Translational Research Working Group

May 1, 2012 – February 17, 2014

CTSA Consortium
BERD Key Function Committee



Working Group Mission was:

- Provide a forum for discussion of ethical issues in the practice of biostatistics, epidemiology, and study design in clinical and translational research.
- Increase awareness of ethical considerations in biostatistics and epidemiology practice.
- Serve as a point of contact in the area of professional ethics for BERD members.
- Make resources available related to ethics for BERD practitioners.

Working Group Projects Still Alive at CTSpedia.org

- Case studies
- Annotated bibliography
- Materials related to teaching the ethical practice of biostatistics
- Ethics in biostatistical reviewing
 - Draft Guide written by Jon Shuster and Bob Oster
- Guidelines for ethical practice in BERD units
 - Draft written by Jon Gelfond, et al.
- Controversies
 - Ethics and Authorship
 - Ethics of Sample Size discussion led by Peter Bacchetti
- Calendar of talks and events

Tags: [GoogleMaps](#) 1 [Help](#) 1 [icon](#) 1 [reproducibility](#) 1
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CTSpedia: A Knowledge Base for Clinical and Translational Research

CTSpedia was created as a national effort to collect wisdom, tools, educational materials, and other items useful for clinical and translational researchers and to provide timely and useful advice to clinical and translational researchers with specific problems. For more information about the history and goals of CTSpedia see [About Us](#).

The CTSpedia [Help Center](#) is now open to assist you with navigating and work in CTSpedia. [Click here](#) to be notified of changes on the CTSpedia Web.

See us on the [CTSpedia Channel on YouTube](#).

Contribute BERD Presentations NEW Links and Resources Ask a Question CTSpedia Archive UPDATED	Statistical Tools and Graphics Statistical Tools Safety Graphics Home Presentations UPDATED Inspiring Graphics R-Studio GitHub	Biostatistical Assistance Datasets Online Calculators Web Services MuStat, WISDOM Biostat Software
Ethics in CTS Biostatistics Guidelines Annotated Bibliography Stat Ethics Case Studies Controversies Talks and Events Materials for Teaching	Educational Materials BERD Educational Materials Research Ethics Education NIH Lecture Series	Reproducible Research RR Standards and Definitions RR Papers NEW RR Methodology RR Templates RR Working Group
Help for Clinical Researchers Articles Clinical Research Vocabulary Case Studies Interactive Tools Comparative Effectiveness	Other Webs Main - User information System - Foswiki system Sandbox - Try out wiki BERD Reviews - Private	BERD About us Goals: Working Groups CTSpedia Reports CTSpedia Usage Reports CTSpedia Reviews

CTSpedia is a collaborative vehicle for the [CTSA's](#) Biostatistics/Epidemiology/Research/Design (BERD) Online Resources and Education taskforce to identify and share resources across the national consortium and community researchers world-wide. With the support of the national BERD consortia, the project obtained funding and support from the National Center for Research Resources (NCRR) to expand the original scope and content of CTSpedia and

Working Group Project: JSM Tomorrow:
**Ethical issues in clinical and translational biostatistics:
Sample size, comparator treatments, research accountability**
Monday 2:00 - 3:50 PM room CC-104A

Chair/Organizers: Shelley Hurwitz, Brigham and Women's Hospital and Harvard Medical School
Thomas Belin, UCLA and ASA Committee on Professional Ethics

2:00 PM Introduction

2:05 PM *Breaking Free of Sample Size Dogma*

— Peter Bacchetti, University of California, San Francisco

2:25 PM *Ethical and practical dilemmas in the design of clinical trials for evidence based medicine*

— David Alan Schoenfeld, Harvard University

2:45 PM *Reproducible Research, Replicability, and Ethical Practice*

— Ronald Thisted, The University of Chicago

3:05 PM *Towards Accountable Data Analyses*

— Jonathan Adam Letterman Gelfond, UT Health Science Center San Antonio

3:25 PM Discussant: Peter Imrey, Cleveland Clinic, Case Western Reserve University

3:35 PM Discussant: Avital Cnaan, Children's National Medical Center

3:45 PM Floor Discussion

Working Group Project:
JSM Tomorrow

Roundtable ML13:

**Ethical issues in peer reviewing:
The good, the bad, the ugly, and
what should we put in a set of guidelines?**

Monday 12:30 - 1:50 PM

Roundtable Leader: Jon Shuster, University of Florida

Contributors: Robert Oster, University of Alabama, Birmingham
Laura Lee Johnson, NIH/NCCAM
Shelley Hurwitz, Harvard Medical School

Working Group Project:

ISI WSC

July 26-31, 2015

Rio de Janeiro

Invited Session supported by the IASE

**Ethics in teaching and practicing statistics:
A panel discussion based on personal experiences**

Chair/Organizers: Shelley Hurwitz and Lawrence Cox

Panelists:

– Katherine Halvorsen, Smith College

“An ethical issue related to teaching at the undergraduate level”

– David Schoenfeld, Harvard University

“Ethical and practical dilemmas in the design of clinical trials for evidence based medicine”

– Jeffrey Dawson, University of Iowa

– Rochelle Tractenberg, Georgetown University

– Martin Bland, University of York

Motivation for selecting “Teaching Ethics” as today’s theme

“Professional Ethics for Statisticians: Issues and Advice”
Amstat News 2011

ASA 2013 President Marie Davidian, Montserrat Fuentes, Pam Arroway

“Given our unique role, a guiding tenet of our profession is that it be practiced independently and with principle, honesty, integrity, and fairness, and we must train the next generation of statisticians to do the same.”

“Integrating ethics training in our curricula as a discipline will enhance integrity of our profession and better prepare our students for the challenges they will face.”

“The ASA’s curriculum guidelines for undergraduate statistics curricula do not mention ethics training.”

Curriculum Guidelines for Undergraduate Programs in Statistical Science

<http://www.amstat.org/education/curriculumguidelines.cfm>

2014

Being updated

You can provide feedback via an online form.

Open meeting at JSM later today:
Sunday 4 - 5:30 PM room CC-101