6th ACS Outcomes Research Course
December 2014
Chicago, IL

Course Director- David R. Flum, MD, MPH
Faculty

Rafael Alfonso-Cristancho, MD, MSC, PHD, Seattle, WA
Nancy Baxter, MD, PHD, FACS, FRCSC, FACRS, Toronto, Canada
Karl Y. Bilimoria, MD, MS, Chicago, IL
Jeanette W. Chung, PhD, Chicago, IL
Justin B. Dimick, MD, MPH, FACS, Ann Arbor, MI
Farhood Farjah, MD, Seattle, WA
Samuel R.G. Finlayson, MD, MPH, FACS, Salt Lake City, UT
Caprice C. Greenberg, MD, MPH, FACS, Madison, WI
Arden M. Morris, MD, MPH, FACS, Ann Arbor, MI
Margaret (Gretchen) Schwarze, MD, FACS, Madison, WI
Dorry L. Segev. MD, PhD, FACS, Baltimore, MD
David Urbach, MD, MSC, FACS, Toronto, Canada
Overall Course Agenda

• Outcomes research
  • What
  • Why
  • How to do
• Getting started/being more effective
  • Career stories
  • WIPs
  • Roundtables about training/research shops/funding
  • Trend spotting
  • Networking
# Details Day 1 – Morning

**Session I: Why, What and so What?**

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Speaker(s)</th>
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<tbody>
<tr>
<td>7:30 - 8:30 am</td>
<td>Continental Breakfast</td>
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<tr>
<td>8:30 - 9:00 am</td>
<td>Introduction</td>
<td><em>David R. Flum, MD, MPH, FACS</em></td>
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<tr>
<td>9:00 - 9:45 am</td>
<td>Rationale for Outcomes Research and Terminology</td>
<td><em>David R. Flum, MD, MPH, FACS</em></td>
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<td>9:45 - 10:30 am</td>
<td>The Outcomes Research Toolbox: Past, Present and Future</td>
<td><em>Justin B. Dimick, MD, MPH, FACS</em></td>
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<td>10:30 - 10:45 am</td>
<td>Break</td>
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Session II: Translational Outcomes Research: Using the Tool to Change Clinical Practice

10:45 - 11:15 am  Clinical Practice Guidelines  
Nancy Baxter, MD, PhD, FACS, FRCSC, FACRS

11:15 - 11:45 am  Changing the Way People Make Decisions  
Rafael Alfonso-Cristancho, MD, MSc, PhD(c)

11:45 - 12:15 pm  Using Research to Drive Policy Decisions  
Dorry L. Segev, MD, PhD, FACS

12:15 - 12:45 pm  Learning Healthcare Systems and Driving Changes in Quality of Care  
David R. Flum, MD, MPH, FACS
Details Day 1 – Afternoon

Session III: Diving Deeper on Methods

1:45 - 2:30 pm  Data Synthesis/Meta-analysis  
David R. Urbach, MD, MSc, FACS

2:30 - 3:15 pm  Systems Engineering, Fieldwork and Point-of-Care Research  
Caprice C. Greenberg, MD, MPH, FACS

3:15 - 4:00 pm  Mixed Methods/Qualitative/Semi-Quantitative  
Arden M. Morris, MD, MPH, FACS

4:00 - 4:15 pm  Break

4:15 - 5:00 pm  Health Economics, Cost/Decision Analysis  
Samuel R. G. Finlayson, MD, MPH, FACS

5:00 - 6:00 pm  “Career Story” Roundtable  
Justin B. Dimick, MD, MPH, FACS  
Caprice C. Greenberg, MD, MPH, FACS  
Gretchen M. Schwarze, MD, FACS
Details Day 2 – Morning

Session IV: CER, PCOR and Observational Data Analysis

6:00 - 7:00 am    Continental Breakfast
7:00 - 8:00 am    Refresher on Research Methodology
                  Farhood Farjah, MD, MPH
8:00 - 9:15 am    Introduction to CER/PCOR
                  Farhood Farjah, MD, MPH
9:15 - 9:30 am    Break
9:30 - 10:30 am   Intro to Available Datasets:
                  Overview on What’s in Them and Related Issues
                  Karl Bilimoria, MD, MS, FACS
10:30 - 12:00 pm  Option 1: How to Get Started With Observational Data Analysis
                  Justin B. Dimick, MD, MPH, FACS
                  Dorry L. Segev. MD, PhD, FACS
                  Jeanette W. Chung, PhD
                  Option 2: Work-in-Progress (WIPs) Sessions
                  Rest of Faculty Members
Details Day 2 – Afternoon

• Method electives
• WIPS and/or
• Select 2 blocks of research techniques, each for a 2 hour concentration in “hands on”
• Each 2 hr block will be repeated
• Advanced STATA series is not broken up-taken as a 4 hr block
Break Out Sessions

I. How to do Qualitative Work

Arden Morris, MD, MPH
Gretchen M. Schwarze, MD, FACS

Beginner and advanced modules deal with;
1) When to use qualitative methods; understanding sampling strategies, coding and analysis with hands-on coding and analysis exercise
2) selection and uses of focus group, key informant interviews, ethnography, case studies, and cognitive interviews
3) Judging rigor in qualitative research
Break Out Sessions

II. How to do Cost/Decision Analysis Work
   Rafael Alfonso-Cristancho, MD, MSc, PhD
   Samuel R. G. Finlayson, MD, MPH, FACS

Beginner and advanced modules will provide hands-on experience creating and executing simple and more complex (Markov) decision models, and performing and interpreting sensitivity analyses
Break Out Sessions

III. How to do Advanced Observational Data Work (STATA 2 and 3)

Justin B. Dimick, MD, MPH, FACS
Dorry L. Segev. MD, PhD, FACS
Jeanette W. Chung, PhD

This is a sequential 2 part series that is for advanced techniques and requires the intro session or equivalent experience with STATA.

The sessions includes the use of several analytic techniques for dealing with confounding, correlation and more complex data.
Break Out Sessions

IV. How to do Meta-Analysis, Data Synthesis and Consensus Guideline Development Work

*David R. Urbach, MD, MSc, FACS*

Beginner and advanced modules deal with;

1) Designing, conducting and interpreting a standardized assessment of the literature
2) Sensitivity and bias analysis in aggregated data
3) Hands-on experience participating in an appropriateness of care expert panel, including review of interpreting ratings/results
Details Day 2 - Afternoon

1:00 - 5:00  
**Concurrent WIPs** - Requires a 1-pager
- Research question
- Enough background for context
- Method of interest
- Anticipated barriers

5:00 - 6:00  
“Career Story”: Roundtable 2
- Samuel R. G. Finlayson, MD, MPH, FACS
- Arden M. Morris, MD, MPH, FACS
- Dorry L. Segev, MD, PhD, FACS

6:30 - 8:30  
Group Dinner
Details Day 3

8:00 - 9:00 am  What Patient-Centeredness Means  
Caprice C. Greenberg, MD, MPH, FACS

9:00 - 9:45 am  PCORI and Surgery  
David R. Flum, MD, MPH, FACS  
Caprice C. Greenberg, MD, MPH, FACS

9:45 - 10:00 am  Break

10:00 - 10:45 am  Getting Started: Training, Funding and Infrastructure  
Nancy Baxter, MD, PhD, FACS, FRCSC, FACRS  
Samuel R. G. Finlayson, MD, MPH, FACS  
Caprice C. Greenberg, MD, MPH, FACS

10:45 - 11:45 am  Where Outcomes Research is Heading: Panel Discussion  
Justin B. Dimick, MD, MPH, FACS  
Arden M. Morris, MD, MPH, FACS  
David R. Urbach, MD, MSc, FACS

11:45 - 12:00 pm  Wrap-up and Closing Remarks  
David R. Flum, MD, MPH, FACS
A Little Advice

• Shut off your phone
• Only check your emails at breaks
• Meet all the faculty
• Meet each other
• Stretch yourself-do a WIP, take an elective you never thought you would
• Design a project with one of the methods you learned
• Join the SOC