IOWA Carver College of Medicine | Department of Anesthesia Division of Management Consulting

CUSTOMIZED INSTRUCTIONAL PROGRAM IN STATISTICAL METHODS FOR ANESTHESIA

INSTRUCTOR is Franklin Dexter, MD, PhD, Professor, University of Iowa, www.FranklinDexter.net.

From 2010 to 2025, as Statistical Editor of Anesthesia & Analgesia and then Canadian Journal of Anesthesia, Dr. Dexter performed >6000 statistical reviews. (a) He identified the most common statistical problems in the journals. He published multiple Statistical Grand Rounds, applying modern statistical methods to the specialty. He examined data and summary measure reporting for anesthesia studies. (b) He systematically reviewed the impact of journal instructions on article quality, and the need for statistical review. (c) He studied the reviews and author responses, thereby identifying the importance of anesthesia investigators learning how to report (i.e., write about) their statistical findings. He then developed this course. (d) He developed a basic statistical review for his operating room analytics course and for the American Board of Anesthesiology's BASIC examination. He has published >700 papers applying quantitative methods in anesthesia.

(1) Investigators often consult with statisticians (analysts) who have limited knowledge of prior research in statistical methods for anesthesia (e.g., suitable probability distributions).

(2) Analysts (e.g., those from engineering working with operating room data) often have substantial analytical skills but limited knowledge of prior research in analytical methods for anesthesia.

Therefore, often there is a gap in knowledge, hindering effective collaboration between investigator and statistician (analyst), not recognized until journal reviewers highlight relevant statistical research, often from engineering or social sciences. There similarly are gaps between clinician managers and hospital analysts creating automated analytical reports. The audiences of this program are (1) research investigators in anesthesia and (2) analysts working in anesthesia and/or operating room management.

PROGRAM on date chosen by participant and Dr. Dexter:

8:30 AM (together, Dr. Dexter and participant)
Dr. Dexter meets with participant(s) to receive the problem scenario summarized as a written statement and perhaps an example report

Example: Participant is analyzing relationship of perioperative outcome and case duration, using Stata computer programming

Example: Participant is planning to survey anesthesiology program directors in a country, and will be programming survey branch logic and randomization using Qualtrics™

Example: Participant wants to improve management decision-making at an ambulatory surgery center, and has previously taken the OR management analytics course

Example: Participant is implementing use of upper prediction limits for add-on case scheduling, with correct answers previously obtained by calculations performed once by Dr. Dexter

Example: Participant's department will be monitoring the anesthesiologists' quality of supervision

9:00 AM
Participant(s) re-evaluates problem scenario and its written description
Dr. Dexter prepares a written customized instructional program

10:30 AM (together)
Dr. Dexter meets with participant(s) to review customized instructional program

10:45 AM
Participant(s) reads about and applies statistical (analytical) methods to the problem using their software
Participant(s) provides written summary of data analysis results
Dr. Dexter is available for questions as needed

4:30 PM
Written summary of the problem and its resolution is modified by participant(s)
Dr. Dexter modifies the customized instructional program and provides participant(s) with additional reading recommendations

5:30 PM (together)
Dr. Dexter meets with participant(s) to discuss future independent work and educational plans

5:45 PM (adjourn)

REGISTRATION FOR CUSTOMIZED INSTRUCTIONAL PROGRAM IN STATISTICAL METHODS

COST: $500

When two people are interested in the same problem (e.g., collaborators at an organization), the total fee is the same $500 if the two meet with Dr. Dexter at the same time, whether during an online meeting or in person.

There is a $100 fee for cancellation up to 2 weeks before the course, and $250 afterwards.

Payment by bank wiring or US credit card is available with the non-refundable bank fee.

SEND CHECK PAYABLE TO: The University of Iowa

MAIL TO:
Franklin Dexter
Department of Anesthesia
Division of Management Consulting
University of Iowa
200 Hawkins Drive, 6JCP
Iowa City, IA 52242

SUBMIT YOUR REGISTRATION FORM TO:
Franklin-Dexter@UIowa.edu

CME credit is not offered for this program. The University and Course Participant agree to keep confidential and not to disclose to third parties any information provided by either Party pursuant to this Agreement that are labeled as "Confidential" unless such disclosure is required by law and does not fall within an exception from disclosure pursuant to Iowa Code Chapter 22.7. This provision shall survive expiration and termination of this Agreement. Course participant expressly releases and holds harmless the University of Iowa for any and all liability hereunder unless such directly results solely from the negligent acts or omissions of the university, its employee or agents to the extent permitted by Chapter 669 Iowa Code.

Date _____

Signature _____

First Name: _____ Last Name: _____

Title: _____ Degree(s): _____

Organization: _____

Mailing Address: _____

City: _____ State (Province): _____ Postal Code: _____

Country: _____

Mobile Phone: _____

E-mail: _____

Additional attendee (limited to 1)

First Name: _____ Last Name: _____

Title: _____ Degree(s): _____

E-mail: _____

Brief description of the problem:
(can be topic that is being contemplated, is currently being worked on, or has been done by others)

Course will be presented via Zoom.

List convenient dates: _____