

# HRM 730

## COURSE OUTLINE – Fall 2023

Course Coordinator: Dr. Jason Busse, DC, PhD – Dept of Anesthesia (McMaster University)

Mondays 1-4PM (Room location on Mosaic)

### Overview

- Course review
- Study designs
- Evolution of RCTs
  - small to large trials
  - surrogate to patient important outcomes
- Practical example of concepts

### Course format

- Lectures
  - Mondays 1:00 pm to 2:15 pm, Sept 11 – Dec 4
- Tutorials
  - Mondays after lectures 2:30-4:00
  - Student led; Tutor facilitated
  - “Micro-Journal Club”
    - Apply lecture concepts to key trial articles
- Clarify concepts of preceding lecture
- Discussion of how preceding lecture(s) apply to your Trial

### Micro Journal Club

- 10 minutes per student
- 1-2 students present one article each
  - NO Powerpoint
  - Just talk and draw if you really need to
- Concentrate on methodological aspects applicable to lecture of the day
  - Background (2 points)
  - Summary of methods (3 points)
  - Identification of relevant issues and implications (5 points)
- Consult the guidance document for help

### Attendance

- Must have reasonable excuse for absence that is exceptional or out of your control
  - death, illness
- Absence
  - 1 with reasonable excuse is acceptable
  - 2 may be OK
  - 3 almost never acceptable (need HRM program coordinator’s approval)
- If you are absent you get 0 for tutorial participation that day (no exceptions)

# Marking scheme

- Tutorial participation – 20%
- Micro Journal Club – 10%
- Project Outline (Nov 1 - Avenue) – 5%
- Course project
  - written protocol (Dec 6 – Avenue) – 30%
  - Presentation (Dec 13 – tutorial groups) – 15%
- Peer review write up (Dec 13 - Avenue) – 20%

## Participation Marks – 20%

Tutorial groups:

Did not attend	Attended but did not participate (e.g. did not speak or actively contribute to discussion)	Marginal participation (e.g. added to discussion in limited manner)	Full participation (e.g. added substantially to discussion without preventing participation by others)
0	1	2	3

## Micro Journal Club Presentation – 10%

- Trial Background (2)
- Summary of Methods (3)
- Identification of Methodological Issues and Their Implications on Results and Interpretation (5)

## Mid-Term Course Project Summary

- CANNOT BE THE SAME AS THESIS PROJECT or another class project
- Goal is to make it useful for you
  - Educational + a trial you might actually do
- Trial question and rationale (< 1 page)
  - Outline of the clinical question, population, intervention, control, primary outcome, and timing of the trial (PICOT)
  - Be precise and detailed (guidance on Avenue)

## Course project

- Written protocol
  - double-space up to 20 pages (excluding references, charts, and diagrams)
  - background should not exceed 4 pages
  - Cover: trial question, objectives, rationale, population, randomization methods, interventions, outcomes, sample size, basic analyses, management issues, feasibility, and ethics
    - See CIHR document “RCT evaluation criteria and headings” on Avenue

## Study question

- Most essential
  - Will likely change several times during the course
  - Remember to keep it simple
- P – patients
- I – intervention
- C – comparison group
- O – outcomes
- T – time
- E.g.
  - In patients with known CAD undergoing noncardiac surgery does aspirin relative to placebo prevent major vascular complications (i.e., vascular death, nonfatal MI) at 30 days after surgery?

## Peer review write up

- Double –spaced up to 4 pages
- Discuss the strengths and weaknesses in relation to
  - clarity of writing
  - appropriateness of research plan focusing on
    - design, methodological issues, feasibility
- Bring 2 hard copies on day of protocol presentations (Dec 15th)

## Plagiarism

- DO NOT COPY IN WHOLE OR IN PART THE WRITINGS OR IDEAS OF
  - others
  - Yourself (from other courses or work)
- Review academic integrity website
  - on Avenue

## Problems

- Avenue
- Course TA
- Abir Abdulla, HRM Program Assistant (hrmasst@mcmaster.ca)
- Jason Busse (bussejw@mcmaster.ca)
  - Can book appointment for face-to-face