



2022 AAHKS Clinical Research Course Agenda

Friday, November 4, 2022

9:30 am CST – 2:45 pm CST

Course Co-Chairs:

Susan Odum, PhD	Atrium Health Musculoskeletal Institute
Ran Schwarzkopf, MD	NYU Langone Health
Bryan Springer, MD	OrthoCarolina, Atrium Health Musculoskeletal Institute

Faculty:

Nicholas Bedard, MD	Mayo Clinic
Dan Berry, MD	Mayo Clinic
Brenna Blackburn, PhD	Utah Health
Mita De, PhD	AAOS
Richard Illgen II	University of Wisconsin
Amethia Joseph, MHA	HSS
Alison Klika, MS	Cleveland Clinic
Hilal Maradit Kremers, MD	Mayo Clinic
Dirk Larson, MS	Mayo Clinic
David Lewallenn, MD	Mayo Clinic
Allina Nocon, PhD	HSS
Daniel Waren	NYU Langone Health
Cody Wyles, MD	Mayo Clinic
Isabella Zaniletti, PhD	Mayo Clinic

Facilitators:

Chiara Rodgers	AAHKS
Christina Stenzel	Mayo Clinic

For more information, visit www.AAHKS.org/Meeting



AAHKS Clinical Research Course Agenda

This course may be the most important course to take if you're considering an orthopedic research career, or want to better appreciate the orthopedic literature. The course is taught by clinical research faculty from several academic institutions. It covers both administrative and scientific aspects of clinical research in orthopedics, including observational study designs, data collection and basic statistical concepts. The didactic part of the course is provided as lectures in four sections: administration, methods & analytics, AJRR & big data research and PROMS research. Additionally, course faculty meets with interested participants in small group sessions (registered separately) to provide peer-review feedback regarding the research methodology covered during the didactic part of the course.

SESSION 1: Study Design and Statistical Analysis in Total Joint Arthroplasty Research

Moderator: **Susan Odum, PhD**

Faculty: **Susan Odum, Brenna Blackburn, Dirk Larson, Isabella Zaniletti**

Time	Topic	Presenter
9:35-9:38 am CST	Study Design and Statistical Analysis: Primer for MD's	Susan Odum
9:38-9:46 am CST	Observational Study Design	Isabella Zaniletti
9:46-9:54 am CST	Randomized Clinical Trial Study Design	Brenna Blackburn
9:54-10:02 am CST	Statistical Approaches for Different Study Designs	Brenna Blackburn
10:02-10:10 am CST	Causation and Correlation	Isabella Zaniletti
10:10-10:18 am CST	Overview of Regression Models	Dirk Larson
10:18-10:26 am CST	Survivorship and competing risk models	Dirk Larson
10:26-10:34 am CST	Applications of AI with EHR Based Research	Cody Wyles
10:34-10:42 am CST	Panel Discussion and Q/A	ALL
	BREAK-5 min	

Session 2: Successful Administration of a Total Joint Arthroplasty Clinical Research Program

Moderator: **Ran Schwarzkopf**

Faculty: **Allina Nocon, Alison Klika, Susan Odum, Daniel Waren, Amethia Joseph, Hilal Maradit Kremers**

Time	Topic	Presenter
10:50-10:58 am CST	Investigator Initiated study: from conception to publication	Allina Nocon
10:58-11:06 am CST	Building a Team that Lasts	Alison Klika
11:06-11:14 am CST	Budget Projection and Managing Finances	Christina Stenzel
11:14-11:22 am CST	Legal, Regulatory Considerations and the IRB	Daniel Waren
11:22-11:30 pm CST	Managing Multicenter Studies	Amethia Joseph
11:30-11:38 pm CST	Funding Opportunities: What's out there?	Hilal Maradit Kremers
11:38 -11:46 pm CST	Panel Discussion and Q/A	ALL
11:46-12:15 pm CST	LUNCH	

For more information, visit www.AAHKS.org/Meeting

Session 3: Big Data in Joint Arthroplasty Research

Moderator: **Bryan Springer, MD**

Faculty: **Daniel Berry, Richard Illgen, Mita De, Nicholas Bedard, David Lewallen**

Time	Topic	Presenter
12:15-12:23 pm CST	Big Data: How to Choose: Pros and Cons	Daniel Berry
12:23-12:31 pm CST	AJRR: What's in it and what I can do with it?	Richard Illgen II
12:31-12:39 pm CST	The AJRR Data Analytics: How it works	Mita De
12:39-12:48 pm CST	Validation of Registry Data	Nicholas Bedard
12:48-12:56 pm CST	The AJRR-C P30 Grant: How can it help you?	David Lewallen
12:56-1:05 pm CST	Panel Discussion and Q/A	ALL

Session 4: PROMS in Total Joint Arthroplasty Research

Moderator: **Ran Schwarzkopf, MD**

Faculty: **Nicholas A. Bedard, Isabella Zaniletti, Allina Nocon, Alison Klika**

Time	Topic	Presenter
1:05-1:13 pm CST	Overview of common validated PROMS (general health, hip, knee, condition specific)	Nicholas Bedard
1:13-1:21 pm CST	Methods to determine MCID and analysis of PROMs	Isabella Zaniletti
1:21-1:29 pm CST	Planning & Implementing Arthroplasty PROMs Registry	Allina Nocon
1:29-1:37 pm CST	Managing a successful Arthroplasty PROMs Registry	Alison Klika
1:37-1:45 pm CST	Panel Discussion and Q/A	ALL

FULL ADJOURN

OPTIONAL Small Group Session: Writing Winning Grants **

Faculty: **Hilal Maradit Kremers, Isabella Zaniletti, Dirk Larson, Brenna Blackburn, Susan Odum, Allina Nocon, Nicholas Bedard, Cody Wyles**

****Register separately - Interactive review and critique of grant proposals / specific aims and including SAP after meeting – an hour. To register for peer-review, please send proposals to meeting@aaahks.org by October 21, 2022, with Research Course in the subject line.**