



## Breakout Session 3: The Tripartite Missions: The Research Component

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Nov 4, 2022

Disclosures: BB is on advisory board for CSL Behring

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### Learning Objectives

- With ACGME requirements in mind, review successful models for research productivity during anesthesiology fellowships
- Identify existing challenges and/or barriers to success, understand internal and external resources
- Discuss existing resources and identify opportunities for improvement.

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### ACGME Requirements for Anesthesiology Fellowships

*In addition to clinical education, many fellowship programs advance fellows' skills as physician-scientists. While the ability to create new knowledge within medicine is not exclusive to fellowship-educated physicians, the fellowship experience expands a physician's abilities to pursue hypothesis-driven scientific inquiry that results in contributions to the medical literature and patient care. Beyond the clinical subspecialty expertise achieved, fellows develop mentored relationships built on an infrastructure that promotes collaborative research.*

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### ACGME Requirements for Anesthesiology Fellowships

must include demonstration of ongoing academic achievements appropriate to the subspecialty, including publications, the development of educational programs, or the conduct of research. (Core)

A research project in cardiothoracic anesthesiology may be substituted for one or two months of clinical elective rotations. (Data)

facilities and equipment for research in cardiothoracic anesthesiology; and, (Core)

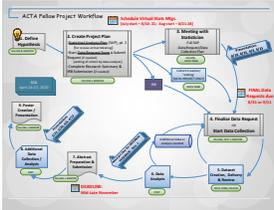
The program must provide instruction in the fundamentals of research design and conduct, and the interpretation and presentation of data. (Core)

The faculty must establish and maintain an environment of inquiry and scholarship with an active research component. (Core)

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### Models for Research in a 12- month fellowship



#### Publications (PMIDs) from ACTA Fellows



Year	Within 5 years	Within year	Total
2014-15	0	0	0
2015-16	0	0	0
2016-17	0	0	0
2017-18	0	10	10
2018-19	0	5	5
2019-20	0	5	5
2020-21	0	10	10
2021-22	0	10	10

Anne Cherry, MD  
ACTA Fellowship Research Director  
Associate Professor of Anesthesiology

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### Research models

- Need sustainable infrastructure: research manager, research coordinator
- Many moving parts: regulatory, communication with sponsor, budgeting, EPIC integration, compliance, recruiting, enrollment, patient follow up
- Types of studies
  - Industry sponsored
  - Investigator initiated sponsored
  - Government agencies sponsored
  - Regional/institutional sponsored
  - Department sponsored: retrospective/prospective

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## Fellows need to know

- Regulatory: How to write and troubleshoot an IRB
- Ethics: how to recruit a patient, understand the study
- Financial: budget for an individual patient
- Procedural: follow specific protocols and understand difference between protocol deviation and adverse events
- Communication: proper reporting/initiation visits/audits
- Integration: role of research in a busy practice

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## Example of fellows involvement

- Sponsored, prospective: Identification of patients
  - Follow training protocols by company
  - Consent patients with the research coordinator
  - Participate in procedure
  - Follow up with patient in visits and understand adverse events vs normal healing process
- Internally sponsored, retrospective
  - IRB writing
  - Create protocol
  - Chart review/analysis/stats discussion
  - Submit abstract/write paper

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