Research Resources at UCF

Research In Medical Education Lunch & Learn Series

Meet your panel of experts…

- **Shalu Gillum, JD, MLS, AHIP**
  Head of Public services, Harriet F. Ginsburg Health Sciences Library

- **Natasha Williams, MLIS**
  User Services Librarian, Harriet F. Ginsburg Health Sciences Library

- **Anya Andrews, PhD, PMP**
  Associate Professor of Medicine and Director of Research Initiatives

- **Elise Dantuma, MBA, MS**
  Assistant Director of Research Programs

- **Julia Soulakova, Ph.D.**
  Biostatistician, Associate Professor of Medicine

- **Angie Griffin**
  Faculty Development Coordinator

LITERATURE REVIEW

Shalu Gillum, JD, MLS, AHIP
Head of Public services

Natasha Williams, MLIS
User Services Librarian

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HELP US HELP YOU…

5 THINGS WE NEED TO KNOW BEFORE WE START A LITERATURE SEARCH

5 THINGS WE NEED TO KNOW FROM YOU

1. What are some keywords?

2. How far back in the literature do you want to search?

3. What is your expectation for turnaround time?

4. How would you like the information delivered?

5. Are you expecting us to find anything??

SHOW ME THE MONEY:
Grant Opportunities for Medical Education and Beyond

Office of the Associate Dean for Research (ADR) Team

"Research in Medical Education Lunch & Learn Series" in collaboration with "ADR "Faculty Collaboration and Engagement Series (FACES)"

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The ADR Team

- **Sampath Parthasarathy, Ph.D., MBA**, Associate Dean for Research, Professor of Medicine, Florida Hospital Chair in Cardiovascular Sciences

- **Anya Andrews, Ph.D., PMP**, Director of Research Initiatives, Associate Professor of Medicine

- **Elise Dantuma, MBA**, Assistant Director of Research Programs

- **Julia Soulakova, Ph.D.**, Biostatistician, Associate Professor of Medicine

- **Jennifer Van Deuren**, Coordinator

Our Capabilities

- Identify relevant funding opportunities (**All**)

- Facilitate research project concept development (**Anya and Dr. Sam**)

- Identify and engage research collaborators, mentors, partners (**All**)

- Provide grantsmanship support (**Anya and Dr. Sam**)

- Statistical support/consulting (**Julia**)

- Proposal review – scientific, technical, editorial (**Anya and Dr. Sam**)

- Facilitate large interdisciplinary grant development efforts (**Anya**)

- Assist with a broad range of administrative tasks at the pre- and post-award stages, including budget development, compliance, application package assembly, award management, and interfacing with the UCF Office of Research and Commercialization (**Elise**)

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ADR Website:

https://med.ucf.edu/research/

Federal Funding Opportunities

- **www.grants.gov** – a federal grant opportunities search engine (open)

- **www.fedbizopps.gov** – a federal contract opportunities search engine (open)

- National Institutes of Health (NIH) Office of Extramural Research

- **http://grants.nih.gov/funding/index.htm**

- National Science Foundation (NSF) **http://www.nsf.gov/funding/**

- Pivot (**www.pivot.cos.com**) – a search portal for government and private grant funding sources, including international funding sources and collaborators (subscription is paid by UCF)

State of Florida Funding Opportunities

- **Florida Department of Health**
  - James & Esther King Biomedical Research Program
  - Bankhead-Coley Cancer Research Program
  - Ed & Ethel Moore Alzheimer's Disease Research Program

Private Funding Opportunities

- **Foundation Center's Philanthropy News Digest** – RFPs submitted by grant makers

- **Foundation Directory Online** – search for grant makers nationwide

- **Guidestar** – search for foundations using keywords

- **Health Grants Information Center** – listing of 100 largest U.S. grant making foundations

Internal Grant Opportunities

- **COM Internal "Seeding" Grants**: up to $20,000 per project, traditional proposal or "Shark Tank"- style submission options (Currently accepting proposals)

- **UCF In-House Research Grants**: $7,500 per project, but larger amounts may be considered, managed by the Office of Research and Commercialization (ORC), currently open through Oct 3, 2016

- **Central Florida Health Research Grants** – up to $20,000 per project, a collaboration between UCF and Florida Hospital managed by the ORC, rolling submission with periodic calls for specific projects

- Matching Funds are available

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Opportunities for Young Investigators

- **NIH Research Career Development K-Awards**

- **NSF CAREER Awards**

- **UC Berkley Database** of new and young faculty opportunities

MedEd Grant Opportunities

American Educational Research Association (AERA)	Damon Runyon Cancer Research Foundation
Association of American Medical Colleges	American Medical Association
National Board of Medical Examiners	American Academy of Family Physicians Foundation
Arnold P. Gold Foundation	National Institutes of Health
Institute on Medicine as a Profession	National Library of Medicine
The Spencer Foundation	Agency for Healthcare Research and Quality
Health Resources & Services Administration	Centers for Medicare & Medicaid Services

Thank You!

RESEARCH QUESTIONS AND HYPOTHESES

Julia N. Soulakova

Office of the Associate Dean for Research (ADR) Team

Examples of research questions

Too simple

Too narrow

Too broad (unfocused)

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Examples of research questions

Too simple

Too narrow

Too broad (unfocused)

What is the childhood obesity rate in Orlando, FL?

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Examples of research questions

Too simple

Too narrow

Too broad (unfocused)

What is the childhood obesity rate in Orlando, FL?

Can be answered with a simple statistic (p)

Source: https://cirt.gcu.edu/research/developmentresources/tutorials/question

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Examples of research questions

Too simple

Less narrow

Too broad (unfocused)

What is the childhood obesity rate in Orlando, FL?

How does the education level of the parents impact childhood obesity level in Orlando, FL?

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Examples of research questions

Too simple

Too narrow

Too broad (unfocused)

What are the effects of tobacco use in the United States?

Source: https://cirt.gcu.edu/research/developmentresources/tutorials/question

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Examples of research questions

Too simple

Too narrow

Too broad (unfocused)

What are the effects of tobacco use in the United States?

too broad to be discussed in a typical paper

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Examples of research questions

Too simple

Too narrow

Less broad

What are the effects of tobacco use in the United States?

How does youth tobacco use correlate with academic performance in the US?

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Examples of research questions

Too simple

Too narrow

Too broad (unfocused)

What health apps for cell phones are currently available?

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Examples of research questions

What health apps for cell phones are currently available?

Too simple

Too narrow

Too broad (unfocused)

No need to collect unique data, just a simple online search, no analysis needed

Source: https://cirt.gcu.edu/research/developmentresources/tutorials/question

Examples of research questions

More complex

Too narrow

Too broad (unfocused)

What health apps for cell phones are currently available?

What are the benefits of a free health app with an e-diary for smoking cessation?

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Scientific Hypothesis

"A hypothesis is an educated guess or proposition that attempts to explain a set of facts or natural phenomenon. It is used mostly in the field of science, where the scientific method is used to test it"

Read more at http://examples.yourdictionary.com/examples-of-hypothesis.html#VFLdzRYP28lIgqCR.99

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Key Features

❑ The goal of a scientific hypothesis is to help explain the focus and direction of the research

❑ Should be linked to the RQ

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Key Features

A scientific hypothesis should contain the following info:

❑   the purpose of the research

❑   what variables are used

❑   what parameters are used (for a statistical hypothesis)

Example

RQ: How does the education level of the parents impact childhood obesity in Orlando, FL?

Example

RQ: How does the education level of the parents impact childhood obesity in Orlando, FL?

Scientific Hypothesis: Higher education level of parents is associated with lower childhood obesity level (in Orlando, FL)

Example

RQ: How does the education level of the parents impact childhood obesity in Orlando, FL?

Scientific Hypothesis: Higher **education level of parents** is associated with lower **childhood obesity level** (in Orlando, FL)

Scientific Hypothesis: Higher education level of parents is associated with lower childhood obesity level (in Orlando, FL)

Statistical Hypothesis: the rate of obese children in families with lower parental education level is higher than the rate of obese children in families with higher parental education level (in Orlando, FL)

$$p_{lower} > p_{higher}$$

Key variables: obesity indicator (yes, no)
parental education level (high, low)

Statistical Hypothesis: the rate of obese children in families with lower parental education level is higher than the rate of obese children in families with higher parental education level (in Orlando, FL)

Importance

The study design and methodology depends on your RQ and stated hypotheses

Statistical hypotheses are used
(1) in power analysis to compute and justify the proposed sample size
(2) to "define" the statistical analyses techniques, e.g., two-sample test for Binomial proportions

THANK YOU!

MANAGING CITATIONS

Tips for a less stressful
research experience

Shalu Gillum, JD, MLS, AHIP
Head of Public services

Natasha Williams, MLIS
User Services Librarian

Tips for a less stressful research experience

Why use EndNote?

- EndNote works with Word to correctly format your references in 100s of citation styles
- Quickly and easily switch from one citation style to another
- Share references with colleagues
- Keep track of references for future projects

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Tips for a less stressful research experience

SCENARIO #1

You've already conducted your research and have a LOT of references…but you did NOT use EndNote.

SCENARIO #2

You haven't started your literature search / you are about to ask a librarian to help you start your literature search.

Scenario #1 – References but no Endnote!

Tips:

- Fear not: A librarian can assist you with getting all of your references into EndNote

- [Download and install](#) EndNote onto your desktop and/or laptop (you may need help from IT for an admin password; do this from on campus if using your laptop)

- See a librarian for training on EndNote and/or consult our [EndNote library guide](#)

- If you've already written your manuscript and did not use EndNote and now are having to make edits to your paper, please see a librarian!

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Scenario #2 – No references…yet

Tips:

- Get your references into EndNote WHILE conducting your literature search!

- You can import references into EndNote from almost any database, not just PubMed, and even Google Scholar

- [Download and install](#) EndNote onto your desktop and/or laptop (you may need help from IT for an admin password; do this from on campus if using your laptop)

- See a librarian for training on EndNote and/or consult our [EndNote library guide](#)

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COPYRIGHT

A few things to keep in mind

Copyright

A few things to keep in mind while doing your research:

- You will likely need permission to reuse an image/chart/graph/survey you found in the literature

- A librarian can assist you with using the Copyright Clearance Center website to obtain permission

- CAVEAT: There *may* be costs involved with reuse with permission

SETTING UP YOUR SURVEY

Faculty in the **Department of Statistics** are willing to collaborate with you in conducting joint research and submitting research proposals.

Statistical Consulting Request Forms can be located on the UCF Statistics webpage: https://sciences.ucf.edu/statistics/consulting/request-form/

RESEARCH ADMINISTRATION

Office of the Associate Dean for Research (ADR) Team

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Research Administration

➢ Various regulations, policies and guidance govern proposal submissions
  - Federal, state, agency and university

➢ Regulations, policies and guidance relate to (not exhaustive):
  - Budget Preparation
  - Personnel Considerations
  - Compliance Aspects (e.g. export control, facilities security, IRB)
  - Agency allowance/considerations

➢ COM Office of Research assists with navigating the regulations, policies and guidance as it relates to the specific research project
  - Each project is unique – different considerations need to be reviewed for each project
  - Contact COM Office of Research early in the proposal process

WRITING SUPPORT

- Solicit feedback from peers in your field

- Utilize the Research Paper Peer Review Worksheet

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Questions?