

# Collaborating with your Biostatistician

## *Finding statistical help for your future research projects*

### Learning Objectives:

Upon completion of this activity, participants will be able to:

- Identify Carilion and Virginia Tech statistical analysis resource teams, including how to connect with them and the services each offers
- Recognize the importance of a statistical analysis plan
- Describe how biostatisticians can assist within all stages of research

### Session Summary:

In this session, we will cover the general topic of collaborating with a statistician. We will introduce you to the statistical resource teams at Carilion Clinic and Virginia Tech who are in Roanoke and the services each team provides. Then, we will cover the research process from start to finish: including when one should start working with a statistician and what steps of the research process require the help of a statistician. Finally, we will host a question-and-answer session to allow for attendees to address any concerns they might have.

#### Health Analysis Research Team (HART)

Carilion Clinic

Director: Mattie Tenzer

Email: [hart@carilionclinic.org](mailto:hart@carilionclinic.org)

#### Center for Biostatistics and Health Data Science (CBHDS)

Department of Statistics, Virginia Tech

Director: Dr. Alexandra Hanlon

Email: [biostats@vt.edu](mailto:biostats@vt.edu)

Website: <https://biostat.centers.vt.edu>

#### Services Offered by HART

##### Drop-In Virtual Office Hours

Tuesday, 10 am – 12 pm

[Join online](#)

##### End-to-End Research Support

- Study design, including power analysis/sample size and statistical analysis plans
- Qualitative and quantitative analyses
- Data exploration and patient cohort feasibility
- Data Extracts from various sources including Carilion's EMR
- Data collection management and storage through REDCap
- Epic Research Access and Clinical Trial support
- Data analysis, biostatistics and visualization
- Data science methodologies
- Secure Cloud based storage and access to advance analytics platforms like SAS, NVIVO, R and Python
- Survey creation, distribution and support
- Support with preparing abstracts, posters, oral presentations and manuscripts.

#### Services Offered by CBHDS

##### Short Term Consulting

*Drop-in hours:*

Monday 10 am - 2 pm

Wednesday 3 pm - 7pm

- In person during regular working hours  
*4 Riverside Circle, Room 1220*
- Zoom option for all 8 hours each week  
[Zoom Links](#)

##### Long Term Collaboration

- *Proposal submission:*
  - statistics analysis plan
  - specific aims
  - research strategy
  - budget
- *Multi-year project period:*
  - analytical and data management support
  - weekly team meetings
  - continuation proposals
  - interim reports
- *Dissemination of results:*
  - manuscript preparation
  - abstracts, posters, oral presentations
  - conferences