HOW TO WORK EFFECTIVELY WITH YOUR BIOSTATISTICIAN (Dos and Don’ts)

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Clinician-Researcher Perspective – Biren Kamdar

General Info:

- Pulmonary/Critical Care at UC San Diego; clinician in Medical ICU
- Biostats, epidemiology, clinical methodology, systematic reviews background (MHS)
- Research: ICU sleep-wake disruption & delirium; ICU outcomes; QI/implementation sci.
- Team: Mentors, research coordinator, junior faculty, housestaff, undergrads, ICU nurses
- Work with biostatisticians:
  - ICU Sleep/Delirium QI intervention: multivariable regression, transition models, questionnaire reliability
  - Return to work after ICU: competing risk models
  - Systematic reviews on return to work after ICU: Meta-regression
  - Actigraphy in ICU: multivariable regression of activity/inactivity levels, circadian analyses (COSINOR, NPCRA)
- I enjoy “Geeking out” with ICU/survey/systematic review datasets in Excel and STATA
Clinician-Researcher Perspective – Biren Kamdar

DOs:
• Planning phase:
  • Include mentor in conversations
  • Set clear goals and timelines
  • Outline authorship plan
• Analysis phase:
  • Leverage your own biostats/epi skills to reduce need for support
  • Clean the dataset
  • Make a data dictionary
  • Complete basic stats on your own
  • Mock-up/make Graphs/Tables

DON’Ts:
• Assume biostatistician is working with you as “part of their job”
• Show up to meetings unprepared
• Assume biostatistician remembers everything about your project
• Ask biostatistician to re-run analyses until you find significant results
• Forget to include biostatistical support in grant applications (ask your mentor)
• Be afraid to email biostatistician with updates and questions
Biostatistician Perspective – Nikki Bergstrom

General Info:
• Masters Level Biostatistician currently working with 2 Divisions within UC San Diego Health Sciences
• Consult on 10-12 projects at a time
• Work with Faculty/Clinician Researchers, Post-Docs, PhD and Med students
• Work includes:
  • power analysis/sample size calculation for grant proposals
  • database management, statistical analysis, tabulation/visualization of results
  • drafting statistical analysis plans for grant proposals and methods/results sections of manuscripts
  • Supported through grants and occasionally through discretionary funds of division/faculty
Biostatistician Perspective – Nikki Bergstrom

DO:
- Talk to biostatistician early
- Think about what you want from the biostatistician
- Be explicit with project timeline
- Get comfortable with the answer “it depends”

DON’T:
- Assume that the biostatistician can start working with you immediately
- Think everything has to be perfect before you talk to your biostatistician
- Be afraid to ask for clarification
- Assume that there is such a thing as “quick question”