

RESEARCH ADVISORY COMMITTEE

Meeting Minutes

Date: March 22, 2021

Time: 4:00-5:00 PM

Place: Via Zoom

Members present: Jeff Burgess, Robin Harris, David Marrero, Melanie Bell, Bekah Coskun, Doug Taren, Heidi Pottinger, Chris Lim (**Admin:** Olivia Healy) **Absent:**, Scott Carvajal, Cyndi Thomson

Meeting Agenda:

1. Heidi Pottinger AIMS Page: Secondary analysis of Intensive physiotherapies to improve function in young children with cerebral palsy

- a. Assess if intensive physical therapies effectiveness in children with cerebral palsy
- b. Therapy takes advantage of neuroplasticity in their environment to create movement solution
- c. Intense, repetitive, early therapies
- d. Grant looking for new ways to treat cerebral palsy or grant allowing for secondary analysis

2. RAC Feedback

- a. Doug
 - i. Are assessments done blinded to prevent bias? Scored blindly by physical therapist and data will be de-identified
- b. Robin
 - i. Address gaps that show need for more information and this secondary analysis
- c. Melanie
 - i. Statistician advising you? Chengcheng Hu
 - ii. **Doug:** utilize early data to add stats as needed to proposal (mean, distributions, etc.)
 - iii. Address 3rd aim and its importance in introduction
- d. Jeff
 - i. Existing data analysis, need to use what is already there
 - ii. Make distinction between what main study did and what you intend to do
 - iii. Convey unique element of these therapies and include how effective therapies were in China
- e. Bekah
 - i. Make case to sell grant, especially for foundation grant
 - ii. Use data from Duke to tell them something they don't know and show unique-ness of current study
 - iii. Some foundational grants will allow for preliminary data, some don't. Check that you can use data

3. Chris Lim AIMS Page:

- a. Power outages in the US
- b. US DOE only tracks and reports large outages versus smaller outages that may occur.
- c. Evaluate the association between weather/extreme events and power outages in US using reference data sets

RESEARCH ADVISORY COMMITTEE

- d. Link power outages and health outcomes to assess vulnerability
- e. Predict health risk and associated vulnerability from outages associated with climate change and demographic changes for future in US

4. RAC Feedback

a. Melanie

- i. What grant? Originally for K99 but now leaning towards R01 or K01.
- ii. What if validation for dataset does not go through? Assuming that it is valid because it is national
 - 1. Be careful about having 1 aim that all others depend on
- iii. Sending tri-pod statement for prediction models to show what language is necessary in describing predictive models

b. Bekah

- i. No hyperlinks are allowed
- ii. Preliminary data for R01? No preliminary for the health aspect, but do have for Aim 1 and temperature aspect
- iii. Write aims for outcome you hope to achieve, beneath aim you can have sub hypotheses or approach
- iv. Talk about team in paragraph where you discuss your reason why and other resources to support idea you can accomplish this study

c. Robin

- i. Can data be validated or examined beforehand? Yes
- ii. Move reason why research is important and what problem you are addressing, market your proposal
- iii. Name data sources because of secondary data analysis

d. Jeff

- i. May be able to shift aim 1 to avoid question of validating data as part of proposal
- ii. Support idea that storms cause fatalities and that outages on top of storms are a larger problem in terms of public health
- iii. Move K99 language up to sell yourself as a new investigator
- iv. To sell as R01, include initial data about power outages
- v. Talk with Dr. David Han, new Dean of College of Engineering, or Mark Van Dyke, their Associate Dean for Research, and may be able to connect you with some resources or faculty
- vi. Any concerns about lack of hypotheses and statistical methods information? May not be necessary as certain hypotheses are implied, not needed for all Aims

e. Doug

- i. Reword validation to analysis of data to answer a research question; still validation but reworded
- ii. State specific data outcome you are looking for, especially for something like hospital discharge data

f. David

- i. Show why intervention makes the most sense and how it can help inform policy about infrastructure and public health

RESEARCH ADVISORY COMMITTEE

Action Item