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Sent: Monday, February 27, 2017 5:57 PM
Cc: Bingham, Peter M. <peter.bingham@uvmhealth.org>
Subject: Involving students from SIGN in research

Peter Bingham expressed interest in having students work with him on projects. A brief description is here, and details are posted below.

Opportunity in Pediatric Neurology Research. Help develop research questions, work with statistics, literature search, draft IRB, conduct interviews, and participate in grant writing.

Contact Dr. Peter Bingham MD at Peter.Bingham@uvmhealth.org Please Write your name, and 3-5 sentences on one or two of these projects that strike you as interesting—feel free to be creative if you imagine directions these projects could go, or what value they could be in health care.

Projects

1. Improving Neuroradiology Referrals in Pediatric Patients <3 years old
2. Use of Simulation Interview Training to Improve Interview in Pediatric Headache
3. Improving Transfer for Ischemic Stroke Patients at High Risk for Mortality
4. Spirometer Games
5. Qualitative Research—TBA

Related (sub-) Projects:

1. Chart Review—Pediatric neuroradiology cases
Qualitative Research/Interview—Pediatric Neuroradiology Referral
Data Management/validation—Pediatric Neuroradiology Cases
2. Interview/Document encounter— Pediatric headache cases
Bibliography Research/Writing—Pediatric Headache Evaluation
Qualitative Analysis- Pediatric headache interviews
Chart Review—Pediatric headache cases
3. Chart Review—Adult Stroke Transfer
Qualitative Research—Stroke Transport
Data Management/validation— Adult Stroke Transfer
4. Spirometer Games
FDA Submission—Spirometer Games
Other funding sources—Spirometer Games
Spirometer Games in Pediatric Asthma, Duchenne Dystrophy
Execute experimental procedures/observations: Spirometer Games

Examples of Tasks/Next Steps

- write research questions
- database (Excel/pivot tables) descriptive stats
- draft IRB
- research/bibliography—annotate
- Compile literature /on-line accessible library (googledocs)
- Conduct interviews
- Qualitative interview analysis/write summaries
- Programming- scripted headache interviews as instruction tool
- Grant writing/proof-reading

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