

Upstate EMMED Research

“ Research is the testing of ideas using the scientific method to deliver better care to patients”- Marvin Heyboer, III, MD

Special points of interest:

- Manuscript writing recipe
- Bluecoat Updates
- EMMED Excellence



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Spring 2017

Part II of IV: A Good Methodology is the Key

By William Grant, EdD

“ The most important part of the methodology is the intervention, what it is and how it is implemented.”

The methodology of a research project is the heart of the project. It is essentially a recipe that describes all of the components such that another researcher would be able to duplicate the project without ever talking with you. The methodology explains who the subjects are for the study, how they were selected, how and why subjects were excluded, how they were recruited. The description includes how and why subjects were divided into groups if appropriate. The most important part of the methodology is the intervention, what it is and how it is implemented. The data gathering instruments are described including

why they were selected or developed. This section also explains how the data were gathered-- electronically, paper/pencil, extracted from medical or other records-- how stored, and how controlled. Finally the methodology describes how the data will be analyzed and the standards to be applied to determine if there is any difference (if that is the intent). Below is a simple example:

We plan to assess all residents in the Emergency Medicine residency program. We are trying to determine if a short educational intervention will improve their performance in pain assessment. We are using the Pain Consortium Pain Assessment survey (a fictitious survey) to measure changes. All residents will take the survey prior to participating in the educational intervention. Then they will ob-

serve a ten minute You-Tube session on pain assessment. They will then re-take the survey. The survey is scored from 0 to 20. Score data will be transferred to a password protected MS-Excel spreadsheet and analyzed using IBM-SPSS V 24. We expect that resident performance will improve by 25% or an average improvement score of 5 points. Because of the anticipated number of residents and this is a pre-post assessment we will use a paired-sample t-test to assess differences. A priori alpha is set at 0.05 because of the simple comparison. We have calculated that a total sample size of 33 will provide a power of 0.80. Therefore we will sample a minimum of 37 residents to allow for a 10% non-completion rate.

Blue Coat Blurb

By Lauren Pacelli, EDRA Program Coordinator

It's March Madness time ya'!!! Undoubtedly one of the most unproductive times of the year. Except for the EDRA program—we are movin' and groovin'! We've welcomed a new individual into the program, we successfully implemented two studies into the ED, completing one of them, AND joined a national program for research associates.



Our new volunteer is Quinn Searles (SUNY ESF). She has been an exceptional addition to our already great group of volunteers and we are lucky to have her!



Alan Shum, one of Upstate's very own medical students, utilized our program to administer a survey he created looking at patient's opinions and knowledge of prescription opioid and heroin addiction in their county and in New York State. Alan was extremely committed to this project from beginning to end; which was not only greatly appreciated, but motivating enough for our RA's to collect over 250 surveys in just a two month time span!



The experience with Alan's survey certainly was helpful when Dr. Eggleston took the lead on executing another study in the ED dealing with Narcan/Naloxone. This study's objective is to determine whether a four hour observation period post-naloxone administration is necessary for the safe discharge of patients after an opioid overdose. Dr. Eggleston's study is currently active in the ED and our RA's are excited to enroll subjects!



We are happy to announce that our program has officially joined the National Alliance of Research Associates Program (NARAP). We are hopeful that partaking in this will bring great recognition to our program, expose us to other organizations/research projects, and overall allow for a more substantial experience for our EDRA's!

EMMED Excellence in Research

Congratulations!

Brett Cherrington, MD; Justin Savage, MD; William Eggleston, PharmD, DABAT for poster entitled *Acute arsenic toxicity after oral ingestion of intravenous arsenic trioxide purchased on the internet* & **Supa Niruntarai, MD; Ross Sullivan, MD; William Eggleston, PharmD, DABAT** for poster entitled *Hydroxocobalamin extravasation, progression, and resolution in a house fire victim* successful acceptance into the ACMT 2017 Annual Scientific Meeting

Jeremy Joslin, MD; Jerem Lloyd, MD; Nick Copeli, MD; Derek Cooney, MD for acceptance of manuscript entitled "Adherence to follow-up recommendations by triathlon competitors receiving event medical care" for publication in *Emergency Medicine International*

Congratulations!

Marvin Heyboer, III, MD for the acceptance of manuscript entitled "Hyperbaric oxygen therapy – side effects defined and quantified" for publication in *Advances in Wound Care*

Louise Prince, MD; Vincent Calleo, MD; Kara Welch, BA; Susan Wojcik, PhD for abstract presentation entitled *The Patient Experience Shift: Enhancing Medical Student Attitudes Toward Patient-Centered Care*, accepted for Curricular Innovations in Medical Student Education Oral presentation at the 2017 CORD Academic Assembly

Kara Welch, BA; Lisa Kelly, MPH; Paul Ko, MD for abstract submission entitled *Identifying Strengths And Weaknesses In 3Rd Year Clerkships Through Patient Evaluations And Self-Reflection*, selected for poster presentation at the 2017 CORD Academic Assembly *Advances in Education Research and Innovations Forum*

Grant Awards/Submissions

Acknowledging

Jay Brenner, MD for being awarded a contract with JDP Therapeutics, Inc. for a sponsored clinical trial.

Jeremy Joslin, MD for submitting to the Wilderness Medical Society for funding from the Hultgren Grant.

If you have any accomplishments to share, please contact us!



New Studies!

Early Discharge of Patients with Presumed Opioid Overdose

PI: William Eggleston, PharmD

Effect of Research Associates in the ED on Public Health Screening

PI: Susan Wojcik, PhD

Potential Impacts of Beer on Post-Race Ultramarathon Athletes

PI: Jeremy Joslin, MD

Research Studies

Emergency Department

EMS Offload

PI: Derek Cooney, MD

Pediatric ED Survey

PI: Gary Johnson, MD

Historical Features and Rates of UTI's in Children 3 months – 2 Years

PI: William Paolo, MD

HBO Clinic

WoundVision

PI: Marvin Heyboer, MD

Hyperbaric Oxygen and it's Effect on Radiation Induced Long Term Side Effects

PI: Marvin Heyboer, MD

Effect of Hyperbaric Oxygen on Glucose Levels in Non-Diabetics

PI: Marvin Heyboer, MD

Announcements

Reminder: 1st Year Residency Completion Milestone

Due June 30, 2017

- ⇒ Research Protocol
- ⇒ Data Collection Instruments
- ⇒ IRB Application

IRB Submission Deadlines:

Meeting date: April 10, 2017

New project submission: March 7, 2017

Meeting date: May 8, 2017

New project submission: April 4, 2017

Meeting date: June 12, 2017

New project submission: May 9, 2017

Abstract Submission Deadlines:

UHMS: April 3, 2017 {Meeting: June 29– July 1, 2017}

NYACEP: April 3, 2017 {Meeting: July 11-13, 2017}

SOFT: April 15, 2017 {Meeting: Sept 9-14, 2017}

AACT: April 17, 2017 {Meeting: Oct 13-15, 2017}

ACEP: May 26, 2017 {Meeting: Oct 30-Nov 2, 2017}

Fellowship Research Seminar Series Date:

April 12, 2017 at 10:30 AM

Research compliance education required by EMMED faculty by April 10th

For inquiries, please contact us:

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www.upstate.edu/emergency/research/index.php