

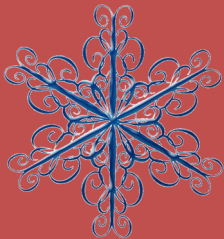
# EMMED Research Bulletin

“Successful clinical research is taking some unexpected nuance observed, and demonstrating a pattern, association, or explanation that makes others in the same field stop and wonder “why didn't I think of that?” - Jeremy Joslin, MD

Winter 2016

## Special points of interest:

- Manuscript writing recipe
- Bluecoat Updates
- Research Question Formatting



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## Part I of IV: An Introduction to Introductions

By William Grant, EdD

**“Begin at the beginning,” the King said, very gravely, “and go on till you come to the end: then stop.”** ~Charles L. Dodgson writing as Lewis Carroll

A report of your research efforts, regardless of format (paper, abstract, poster, presentation, etc.) should tell the story of what and why you have undertaken your effort. Underlying all of these is a standard format: Introduction, Methods, Results, Discussion. The sections are sometimes subdivided or renamed, but all are required and if you stick to the IMRD format you may morph it into any version you would like.

Often the Introduction is the most time consuming and detailed section of the paper. The Introduction places your question in context, establishes your aims and objectives for the study, sets the hypotheses and outcomes. How you will do what you have proposed comes in the Methodology section which will be addressed in a later issue.

The Introduction should tell a story. Think of the start of most stories: “Once upon a time...” Once upon a time this is the way that the world worked or understood (fill in the blanks). Over time we have done the following (fill in the blanks). It is clear that what we have not done is (fill in the blanks). And we propose to address this by (fill in the blanks).

Here is a severely abbreviated introduction from a recently published study (J Behav Med 2016 39:957-968).

Current estimates are that as many as 75% of patients fail to benefit from medication due to poor or nonadherence. It is estimated that nonadherence contributes over \$105 billion to avoidable healthcare costs per year. The ability to identify persons at risk for poor adherence or the predictors of poorer adherence has been studied for the past 4 decades. Nonetheless, we remain no closer to identifying robust predictors of adherence. There are multiple methods of measuring adherence. We are particularly interested in examining the potential role that measurement method might have on the ability to identify correlates or predictors of adherence. We hypothesize that different predictors would be identified with different measurement methods.

This introduction sets the context: estimates of nonadherence. It lets the reader know what has been done to address this issue: a review of 4 decades of research. It sets the problem: multiple methods which don't provide a clear answer. It describes what the current authors will do to address the issue: identify predictors. And, in this case states a priori that potential outcomes may still not provide a crisp answer: different predictors work with different measurement methods.

Writing an introduction is an iterative process. This will include development of an initial question (see page 3) followed by an extensive relevant literature review to determine what has been done in the past and what still has to be done. It is often that the question itself will evolve as existing information is read and incorporated. The introduction is worth the commitment as it sets the stage for all that follows and focuses the methodology needed to address the question.

## Blue Coat Blurb

By Lauren Pacelli, EDRA Program Coordinator

The holiday season is a time to give thanks and count your blessings. As the EDRA Program Coordinator, I'm extremely grateful for all of our current students who sacrifice their time to volunteer in our ED. College kids nowadays are much busier than I was at their age. Their schedules are jam-packed and for them to take on one more thing and have it be volunteering for our program is truly an honor. Without them, our program wouldn't exist and what a bummer that would be! I'd like to send a big shout-out welcoming the latest individuals to join our troop – Telia West (SU), Carly Sopuch (SU), and Casey Chase (SUNY Potsdam). They are all so appreciated and I hope they know it!

What's new in the Blue Coat world? I'm happy to report that there, in fact, a couple things! First, we have implemented a new scheduling system called, WhentoWork. Thus far, this platform has proven to be user friendly, efficient, and accomplishes exactly what we need. Not thrilling enough for you? Well hold on to your seats because we have something very exciting! Our EDRA's can now be reached by Vocera!



If you know of a patient that is eligible for any of the studies currently being administered in the ED, just call "Emergency Research" and someone should answer (I say should because occasionally we have times where we don't have coverage). Stay tuned for more new stuff coming soon!!

Keeping up with the spirit of the holidays and how much food everyone consumes I thought I'd divulge a recipe for what makes a good EDRA.

### You will need :

- ◆ A good sense of the required duties
- ◆ A stellar attitude
- ◆ Patience
- ◆ Excellent communication skills
- ◆ Ability to cultivate relationships with wide range of people
- ◆ Willingness to smile — smiling is my favorite!

### Directions:

Combine all and succeed!

## Faculty Excellence in Research

### Congratulations!

**Amy Sue Biondich, MD and Jeremy Joslin, MD** for the manuscript titled *Quantifying the "Slosh Stomach": A Novel Tool for Assessment of Exercise-Associated Gastroparesis Symptoms in Endurance Athletes* accepted Oct 12, 2016 and published in *Journal of Sports Medicine*.

**William Eggleston, PharmD, Jeanna Marraffa, Pharm D, Christine Stork, Pharm D, et al.** for the publishing of *Notes from the Field: Cardiac Dysrhythmias After Loperamide Abuse — New York, 2008–2016* in the *CDC MMWR* Nov 18, 2016.

**William Grant, EdD and Alan Shum, Medical Student** for IRB approval of Opioid Addiction and Narcan Research Study.

**Timothy Damron, MD, William Grant, EdD, Tina Craig, et al.** for the acceptance of abstract *Prospective Randomized Clinical Trial Comparing Ultraporous Beta-Tricalcium Phosphate with Bone Marrow Aspirate to Combined TCP with Calcium Sulfate in Cured Benign Cavitary Tumor Lesions*. Will be presented at the Orthopedic Research Society in San Diego, CA Mar 16-19, 2017.

**Norman McCulloch, MD, Susan Wojcik, PhD, and Marvin Heyboer, MD** for the manuscript titled *Patient Outcomes and Factors Associated with Healing in Calciphylaxis Patients Undergoing Adjunctive Hyperbaric Oxygen Therapy* published in the *Journal of the American College of Clinical Wound Specialists*.



### Grant Awards/Submissions

#### Acknowledging

**Dr. Eggleston, Dr. Marraffa and Dr. Veenstra** as they were recently awarded the NYS ACCP Research Grant on Loperamide and submitted a 1.2 million dollar NIH grant on loperamide cardiac toxicity.

**Dr. Knutsen, Dr. Grant, Dr. Wojcik, and Dr. Cooney** who were awarded with a 3-year grant by the DOT/NHTSA Office of EMS in conjunction with NAEMSP to conduct a survey among EMS directors.

#### Correction to Fall 2016:

Congratulations to **Camille Halfman, MD and Jeremy Joslin, MD** on the acceptance of the Fusobacterium necrophorum without septic thrombophlebitis abstract to SCCM 2017.

## New and Current Research Studies

### New!

**Feasibility study comparing Transcutaneous Oximetry Measurement (TCOM) with Long Wave Infrared Thermography (LWIT) in patients with lower extremity wounds to evaluate accuracy in predicting healing and measuring potential for hyperbaric oxygen treatment (HBOT) effectiveness in patients undergoing TCOM**

PI : Marvin Heyboer, MD

### New!

**Narcan Research Survey**  
Medical Student Researcher:

Alan Shum

PI: William Grant, EdD

### Current ED

**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

### Current HBO

**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



## Formatting a Research Question

How do you come up with a research question? Here are some ideas to get you started in the right direction: Attend journal clubs, complete a literature search on your topic of interest, attend professional presentations in your field and review posters, think about the limitations or future direction discussed, pay attention in your daily clinical experience, and discuss your idea with colleagues. Avoid trying to answer too many questions at once and too broad of a question. Once you come up with some ideas, spend the time on development of a good question as it is the foundation that every other research step depends on. Using the PICO format creates focus to what you want to research, provides a structure that will result in the development of a well-defined question, makes sure you aren't trying to answer too many questions, and provides clear terms to guide a literature search.

### What is PICO?

**P**= Patient Characteristics i.e. primary problem, important characteristics, and population (who)

**I**= Intervention i.e. main interventions to consider as treatment, independent variable

**C**= Comparison i.e. main alternative (s) to compare with intervention and group or procedure

**O**= Outcome i.e. short and long-term goals for the subject, measurements, and dependent variable

To further refine your PICO research question, use the following to make sure you can answer these questions:

**Feasible**– Can it be done with the resources available? Adequate # subjects, expertise, time, money, etc.

**Interesting**– Do you have a passion for it? Getting the answer matters to PI and peers

**Novel**– Is it a new research idea? Confirms, refutes, or extends previous findings and provides new findings

**Ethical**– Does it comply with research ethics and codes of conduct?

**Relevant**– Does it pass the 'so what' test? To scientific knowledge, clinical/health policy, and future research.

These are important concepts that should be utilized to lay a successful foundation for your research. Please let us know if we can help you to further refine your research question.



## Announcements

**Reminder: 1st Year Residency Completion Milestone Due December 31, 2016**

- ⇒ Development of Research Question
- ⇒ Literature Review
- ⇒ Identify MD Faculty Mentor for Study

\*Contact Dr. Wojcik or Dr. Grant asap if you have not yet met this milestone.

### IRB Submission Deadlines:

**Meeting date: January 9, 2017**

New project submission: December 6, 2016

**Meeting date: February 13, 2017**

New project submission: January 10, 2017

**Meeting date: March 13, 2017**

New project submission: February 7, 2017

### Abstract Submission Deadlines:

NACCT 2017: March 2017

ACEP, NYACEP, UHMS 2017: April 2017

\*Call for abstracts not announced to date for above conferences

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