



# RESEARCH UPDATE

A WEEKLY COMMUNICATION FROM THE OFFICE OF RESEARCH & SPONSORED PROGRAMS

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## GENERAL INFORMATION

- **Summer Research Experience Orientation**  
Information with links to SRE Orientation is available under the Medical Student Research Header of this issue. Please contact Dr. Ontiveros with questions.
- **Summer Laboratory Access**  
The Research Laboratories are looking forward to a busy summer. New signage has arrived and should be installed by in time for the SRE. Outdoor tables are available in the area outside of the Human Physiology Laboratory. A new card entry system will be in place shortly.  
Information for Principal Investigators regarding card entry requirements is detailed under the Research Laboratories Header of this issue. Please contact Dr. Woods or Ms. Kalli Martinez with questions.
- **Upcoming Finance Office Announces Dates and Deadlines for Year End Ordering**
  - The year-end schedule for submission of purchasing requests has been made available by the Controller, Renee Huber-Landrum. [Please review the following dates and plan accordingly for your research related purchases.](#)
    - June 4, 2021: Last Day to Submit Purchase Requisitions for Domestic Orders
    - June 8, 2021: Last Day that Finance will generate Purchase Orders
    - June 29, 2021: Last Day for Receiving and Expense Reimbursements
    - July 19, 2021: Purchase requisitions resume in workflow

- **OMED Call for Research Abstracts**

The American Osteopathic Association announces the **CALL FOR RESEARCH ABSTRACTS** for the 2021 Osteopathic Medical Conference @ Exposition (OMED).

**Background:**

In 2020, due to the COVID19 pandemic, the American Osteopathic Association (AOA) hosted the poster session/competition virtually so researchers would not miss their opportunity to disseminate their research to a broader audience. The success of the virtual poster session/competition has led to the continuation of this platform.

A virtual poster session's significant advantage is to provide individuals with the opportunity to present their research without the added stress of travel/lodging expenses and clearing their calendars.

**Objective:**

The objective of AOA's virtual poster session/competition is to provide an opportunity for researchers, both new and mature, to disseminate their research to a broader audience.

The virtual Poster Session is an integral part of the Osteopathic Medical Conference & Exposition (OMED) experience. Investigators interested in participating will submit an abstract of their research project. The abstracts that are approved will be published in the online edition of the Journal of Osteopathic Medicine (JOM).

The virtual Poster Session will include a student poster competition. The poster competition. Students must enter the competition at the time of their abstract submission.

**ONLINE SUBMISSION :** Now Open **SUBMISSION DEADLINE:** Monday, July 12, 2021, at 11:59 p.m. CST.

**Abstracts Eligibility and Instructions Document:** If you have any questions, please contact Gloria Dillard, MPH at (312) 202-8006 or email [gdillard@osteopathic.org](mailto:gdillard@osteopathic.org).

## MEDICAL STUDENT RESEARCH

- *Director's Corner*

### The Structure of a Case Report

As promised, I will continue my discussion of case studies and writing a case report. Within my previous Director's Corner piece, I described case studies and their significance of recounting events or describing outcomes from real-life situations. These are important aspects when considering medicine because they serve as a record of clinical interactions and/or outcomes that help contribute to and expand the body of clinical knowledge. In that piece, I described a few components to consider when writing a clinical case study, such as unusual responses or observations but did not go into the details of specific elements that make up the structure of a case report. Just like any written piece of a research study, there are many paths an author can take when composing a manuscript for publication; the same occurs when writing a case report. Herein, I will provide some guidelines for a general structure.

Before starting a case report, consult the guidelines of the journal of interest to identify their requirements and identify if there is a specific structure the journal requires, as they will likely have different structural requirements. Additionally, journals have word limits, which can range anywhere from 1,000 to 4,000 words. Although journals may have distinct structural requirements, most case reports should include the basic information that helps inform the reader. There are many guidelines offering tips for writing and publishing case reports, some are less formal and can be found in public message boards and postings, while other guides have been published.<sup>1,2</sup> Irrespective, these guides articulate the same necessary information: introduction, case description, and ending discussion.

According to the two guides I have cited, the case report should include the following structure and details.<sup>1,2</sup> I have summarized the major points from these two pieces of literature:

#### Abstract:

The abstract should be a short summary of the case report that gives the reader an idea of the contents of the report. There should be no more than 150-200 words that present the problem and summarize the essential outcomes. As indicated above, refer to the journal of interest to identify word limits for the abstract and the entire document.<sup>1,2</sup>

#### Introduction:

The introduction section should provide focused background information on the problem addressed in the abstract and the nature of the report. This section should attract the attention of the reader and contain relevant background information to inform fully. The introduction should provide enough general explanation of the condition being reported, such as what is known or unknown about that condition, and should eventually lead into the case presentation by ending with a description of the patient and specific condition(s) or state they are in. Do keep in mind that some journals do not require an introduction, for which these reports proceed directly into the case description immediately following the abstract.<sup>1,2</sup>

#### Case Description:

Although the structure may vary among journals, the case section is generally divided into the following components: patient description, case history, examination and laboratory results, treatment plan, expected and actual outcomes. Case presentation should occur in chronological order and provide enough detail to help the reader draw their own conclusions. In this section, the report should discuss the data acquired from the patient, such as lab results, their presenting condition(s) that form the basis of the report, medical history, specific findings, follow-up, and outcomes. Other essential information may be included, but ensure the information is relevant and does not draw away from the focus of the report.<sup>1,2</sup>

#### Discussion:

The discussion section is the most important segment of the report as it should serve to interpret the key points of the report and draw final conclusions. It should expand on portions of the introduction and address specific problems and challenges of the case. Additionally, it should compare and contrast the case description with the currently existing body

of literature and explain the differences or relations. While comparing to existing literature, the author should not provide a comprehensive literature review but should demonstrate how the case differs.<sup>1,2</sup>

#### Conclusion:

The case report should end with a final conclusion based on the evidence presented within the case description and the current knowledge of the condition. The concluding segment should summarize key points of the case report and include any further recommendations. Depending on the journal, the conclusions section may be required to be written into the discussion, so please review the journal guidelines.<sup>1,2</sup>

Case reports may not be as impactful as a fully cultivated research study. Still, as indicated in my previous Director's Corner piece, case studies serve as a clinical record of findings and observations that help to contribute essential facts and findings to the body of medical knowledge. Additionally, case reports are an excellent option for medical students that find themselves short on time, and because of these aspects of case studies, I highly recommend that students engage in them.

#### References

1. Gulf Heart Association. Guidelines to writing a clinical case report. Heart Views. 2017;18(3): 104-105. doi: 10.4103/1995-705X.217857
2. Sun, Z. Tips for Writing a case report for the novice author. J Med Radiat Sci. 2013; 60(3):108-113. doi: 10.1002/jmrs.18

*Steven J. Ontiveros, Ph.D.*  
*Director of Medical Student Research*

- ***SRE Orientation Information from Dr. Ontiveros***

We are excited to announce the start of this year's Summer Research Experience (SRE), a 6-week summer opportunity for medical students to engage in faculty-driven research and creative scholarship. The SRE commences with SRE Orientation that will be held in the mornings on **June 2<sup>nd</sup> and 3<sup>rd</sup>, 2021**. Orientation will comprise components of our Responsible Conduct of Research Program that aims to educate researchers in critical areas of ethical research. We have provided two Zoom links below for each of the days. Additional information regarding SRE Orientation may be found on the Leo 2021 SRE course page or in Microsoft Teams under the title 2021 Summer Research Experience. If you have any questions, please reach out to us at [research@bcomnm.org](mailto:research@bcomnm.org).

**Day 1: 8:30 AM – 11:55 AM** [Click this link to attend SRE Orientation Day 1](#)

*Meeting ID: 971 8787 8457*

*Passcode: 614857*

**Day 2: 8:30 AM – 11:50 AM** [Click this link to attend SRE Orientation Day 2](#)

*Meeting ID: 929 3703 3289*

*Passcode: 957712*

- ***Student Research Reporting Policy***

To ensure that student research is conducted in compliance with institutional policies and applicable regulations, all students are required to inform the Office of Research and Sponsored Programs of their research plans before **beginning a research project, submitting an abstract to a conference, or submitting a manuscript for publication**. Informing our office involves the completion of an online form that is available through the [Medical Student Research – Starting Your Research web page](#). For more information, please visit the [Medical Student Research website](#), or contact Dr. Ontiveros or the Office of Research.

- ***2019 Medical Student Research Day Speaker Confirmed***

We are pleased to announce our keynote speaker for the 4<sup>th</sup> annual medical student research day. Andrea Amalfitano, Ph.D., D.O., Dean of the Michigan State University College of Osteopathic Medicine, is an expert in the field of gene transfer vectors for vaccine applications and has a longstanding commitment to the advancement of osteopathic education. Dr. Amalfitano will be joining us on July 15, 2021 to participate in Medical Student Research Day activities and present a lecture on his research.

*Jonathan Kreger, OMS-II*  
*SGA Director of Medical Research*

## RESEARCH LABORATORIES

- ***Research Laboratory Access***  
Faculty Investigators must submit a [Laboratory Access Request](#) for each of their students who require badge access to the Research Laboratories this summer. [Instructions](#) for requesting access are available online. Students should have completed all of the requisite training before the faculty member submits a request. Please contact Dr. Woods or Kalli Martinez with any questions.
- ***Research Laboratories Services Requests***  
Laboratory investigators, do you need to run a gel, split/feed cells, or conduct an ELISA and don't have a lot of time to spend at the Research Labs? We can help! The Office of Research can provide Laboratory Services in support of your research endeavors. All you need to do is submit a request for Laboratory Services support, which includes specific information on when and what you need accomplished. All requests must include a detailed technical protocol. Please review the [Research Laboratories Services Request SOP](#) and contact Kalli Martinez or Dr. Woods with any questions about how we can best support you.

[CLICK HERE TO SUBMIT A REQUEST](#)

## DATES AND DEADLINES

- Institutional Review Board (IRB) – May 24, 2021 12:00 – 1:30 p.m.
  - Last day to submit materials for the June meeting: June 15, 2021.
  - Email: [IRB@bcomnm.org](mailto:IRB@bcomnm.org)
- Institutional Biosafety Committee (IBC) – July 14, 2021, 12:00-1:00 p.m.
  - Last day to submit materials for this meeting: July 1, 2021
  - Email: [Research@bcomnm.org](mailto:Research@bcomnm.org)
- Research Advisory Council (RAC) – June 18, 2021 , 1:00 - 3:00 p.m.

## POLICY & REGULATORY UPDATE

- ***Burrell College New or Updated Policies and Procedures***
  - ***[Research Misconduct Proceedings](#)***  
Burrell College encourages the pursuit of research and creative scholarly activities as part of its mission, strives to create an environment that supports all academic and scholarly endeavors, and promotes integrity in the conduct and dissemination of research. The College recognizes that incidents of misconduct in research and creative scholarship is rare, but also understands that procedures for fair and thorough investigation of allegations of research misconduct must be defined. In accordance with our responsibility to comply with federal regulations 42 CFR Part 93, this SOP defines the process whereby the College investigates and acts on matters involving allegations of misconduct in research and scholarly activity.
  - ***[Grant Submission Process](#)***  
This Standard Operating Procedure (SOP) details the process for submitting extramural grants. All Burrell College faculty, staff, and students applying for and submitting extramural grants must follow the procedures outlined in the SOP. The key steps outlined in the process include:
    1. Submission of a Notification of Intent to Apply for Extramural Funding
    2. Preparation of the grant proposal by the Principal Investigator or Program Director in accordance with sponsor application requirements
    3. Submission of a Proposal Transmittal Form with attached proposal and supporting documents to the Office of Research & Sponsored Programs for internal routing and review. *Note: All proposals must be routed for internal review and to ensure compliance with federal, state, and College regulations and/or policies prior to submission. P.I.s and P.D.s should allow five (5) days for this review.*
    4. Proposal Submission shall occur only after internal routing and approvals are obtained.Please contact the Office of Research and Sponsored Programs with any questions and remember that advanced planning is the key to a successful grant submission.

- [Leave of Absence for Advanced Study](#)  
All students requesting a Leave of Absence for extended periods of research, creative scholarly activity, or any other form of advanced study must follow the process outlined in the procedure. Please contact the Registrar for more information. It is recommended that a student initiates the request sixty (60) days in advance of the requested leave date.
- [Biological Safety Manual](#)
- [Bloodborne Pathogen Exposure Control Plan](#)  
Research Laboratories Services Request, [RSP.018](#) . This SOP defines the procedure whereby a Burrell College faculty may request Laboratory Services in support of College-sponsored research projects.
- **Human Research Protection** ○ [AHRQ Guide Notice on Exception to the Use of the Single IRB Review Requirements During the Coronavirus Disease 2019 \(COVID-19\) Public Health Emergency](#)
- **CDC**
- [Biosafety in Microbiological and Biomedical Laboratories \(BMBL\) 6<sup>th</sup> Edition](#) **New Edition!** *Download your Free Copy.*
- **World Health Organization**
- [Laboratory Biosafety Manual, 4<sup>th</sup> Edition](#) (New Edition, December 2020)

## FUNDING OPPORTUNITIES, MEETINGS, and NOTICES

- **CALL FOR PROPOSALS: AOA Osteopathic Manipulative Medicine Observational & Explorative Research**  
The AOA Bureau of Osteopathic Research and Public Health (BORPH) is reopening the RFA on Osteopathic Manipulative Medicine (OMM) Observational & Explorative Research Studies, addressing one of 14 research hypotheses designed to investigate the successful effects of Osteopathic Manipulative Medicine (OMM) on disease. These topics include:
  - **OMT and Pain Management**
    - OMT will reduce the length of days of headaches in migraine patients.
    - OMT will be effective at reducing facial pain and improves patient perceptions of care in facial sinus congestion.
    - OMT will be an effective technique to reduce pain and NSAID use in tension headache patients.
    - OMT will reduce the use of medications, especially opioids.
  - **OMT and Surgical Outcomes**
    - OMT will reduce post-operative shoulder surgery edema.
    - OMT will reduce chest discomfort after thoracotomy.
    - OMT will enhance the quicker return of normal bowel function post-operative.
  - **OMT and Respiratory Issues**
    - OMT will reduce the frequency of hospitalizations in patients with COPD and COPD exacerbations.
    - OMT will improve pulmonary function in patients with asthma.
    - OMT will decrease the respiratory symptoms of long-haul COVID patients.
  - **OMT and Pediatric Issues**
    - OMT will reduce the number of hospital days for pediatric patients suffering from pneumonia.
    - OMT will improve feeding difficulties in newborns.
  - **Other OMT Research Topics**
    - OMT will enhance immunological response to vaccines.
    - OMT will reduce the incidence of falls in the frail elderly.

**Funding Amount.** Up to \$20,000 maximum; **Project Period,** October 1, 2021 – March 31, 2023 (18 Months); **Application Due Date,** Tuesday, June 1, 2021. Awards will be announced in September 2021.  
Please review the [Request For Applications](#) for more information.
- [NIH Weekly Funding Opportunities and Notices](#) – May 21, 2021
- American Osteopathic Association
  - [AOA Research Grants](#) for DOs, MDs, and PhDs
  - [Research Opportunities](#) for resident physicians, fellows and osteopathic medical students
- [Wells Fargo Philanthropic Services](#) (Search for Opportunities)

## CLINICAL TRIALS INFORMATION

- ***Clinical Trials Information***

[TrialSite News](#) is a digital media resource dedicated to transparent and open coverage of clinical research trial sites around the globe.

## INFORMATION FOR AUTHORS

- ***Case Report Guidance***

Many of you have informed us of your intent to publish a case report. Please consult our [Case Report Publication Guidance](#) for additional information as you prepare your manuscripts for submission. While IRB approval is generally not required for Case Reports, the College expects that authors have secured permission for medical record access and follow all applicable regulations, policies and procedures. Please feel free to contact the [Office of Research](#) if you need additional guidance.

- ***Information on Publishing Venues***

- o The Office of Research and the Burrell College Health Sciences Library are available to assist with any questions that you may have regarding appropriate places to publish your research.

- ***Cureus Journal of Medical Sciences***

- o Cureus is an open access peer reviewed medical journal based in San Francisco, CA that offers free publication for articles that follow their author instructions.

- ***Journal of Osteopathic Medicine***

- o The Journal of the American Osteopathic Association (JAOA) is now the Journal of Osteopathic Medicine (JOM).

- ***Call for COVID-19 Research Papers:*** The JAOA editors invite researchers to share information and data about their experiences with COVID-19 with the osteopathic community.

- Are you interested in publishing a literature review? The Journal of the American Osteopathic Association has created a video that provides tips for putting together a quality [Systematic Literature Review](#)

## RECENT AND FORTHCOMING SCHOLARLY WORK BY BURRELL COLLEGE RESEARCHERS

(Please email us with your news and we will add it to future Updates.)