



SLEEPY TIMES

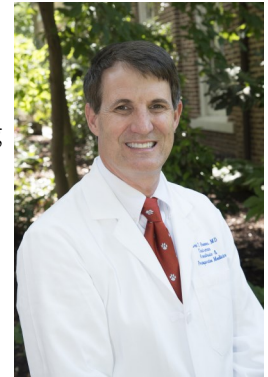
VOLUME 16, ISSUE 1 JANUARY 2022



MESSAGE FROM THE CHAIRMAN: STATE OF DEPARTMENTAL RESEARCH

-SCOTT T. REEVES, MD, MBA

Recently, Dr. Eric Bolin highlighted the state of the department’s research efforts over the past ten years during the Department’s Annual Research Symposium. The department has recruited two excellent PhD researchers, Ken Catchpole and Mike Scofield. In the clinical domain, the department has continually added resources to the research effort with the hiring of a fulltime study coordinator, statisticians and multiple research assistants. These resources have allowed all the clinical faculty an opportunity to explore novel clinical research areas. We still have a lot to do, and I encourage everyone to consider how you can participate in increasing the knowledge in our specialty.



Inside This Issue:

Message from Chairman	1
Department Annual Research Symposium	1-4
New Department al Babies	4
Resident Surgical Airway Simulation	5-7
Wellness Walks	8
Congratulations Dr. Steven Vranian	8
WAMP Holiday Breakfast	9
Toys for Tots	9
Door Decorating Winners	10
Annual Holiday Party	11-13
Administrative Staff Breakfast	13
New and Retiring Staff	14
Special Recognition for Jaime Sayers	15
SJCH OR Employee of the Month	15
Research Corner	16
MUSC Alumni Golf Tournament	16
Grand Rounds	17
I Hung the Moon	18

DEPARTMENT ANNUAL RESEARCH SYMPOSIUM

The Annual Department of Anesthesia and Perioperative Medicine Research Symposium occurs in October of each year. The symposium is an opportunity to showcase research projects of many types and all states of completion. This includes projects not yet IRB approved or enrolling patients, to completed publications. The primary goal of the symposium is to stimulate new ideas and inspire new researchers. I believe that being surrounded by people doing creative and innovate things creates a positive feedback loop that further enhances creativity and broadens participation. We are all so busy with clinical duties, it can be challenging to be aware of what our departmental colleagues are working on. This symposium serves to fill this gap and hopefully inspire future researchers.

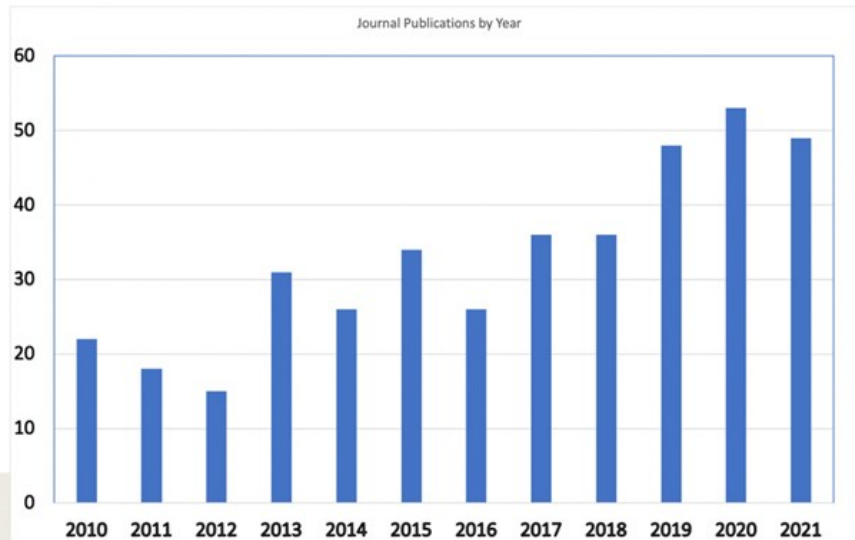
With the effort and participation of many, and under the leadership of Drs. Reeves and Reves, our academic productivity has grown tremendously over the last decade. While there is no single tool that captures all academic productivity, I’ve mined data from a combination of sources including Interfolio, Pubmed, and others to compile a data set representative of the growth in departmental academic productivity. There are many indices of academic productivity. I’ve chosen to highlight journal publications and poster presentations.

Journal publications have grown roughly 400% in the last decade (fig.1)



DEPARTMENT ANNUAL RESEARCH SYMPOSIUM (CONTINUED...)

Academic Productivity



Changing What's Possible.

Figure 1



Growth of poster presentations, despite being significantly negatively impacted by the pandemic, is similarly impressive (fig.2).

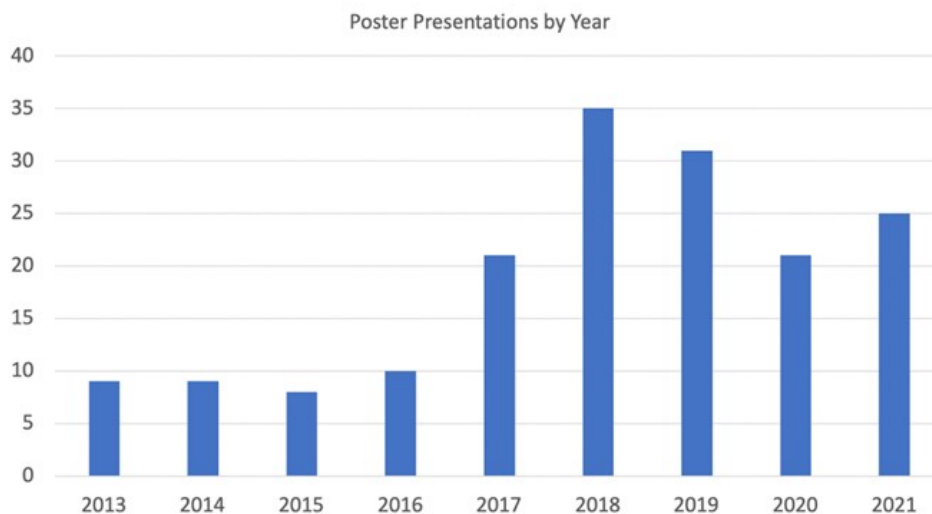


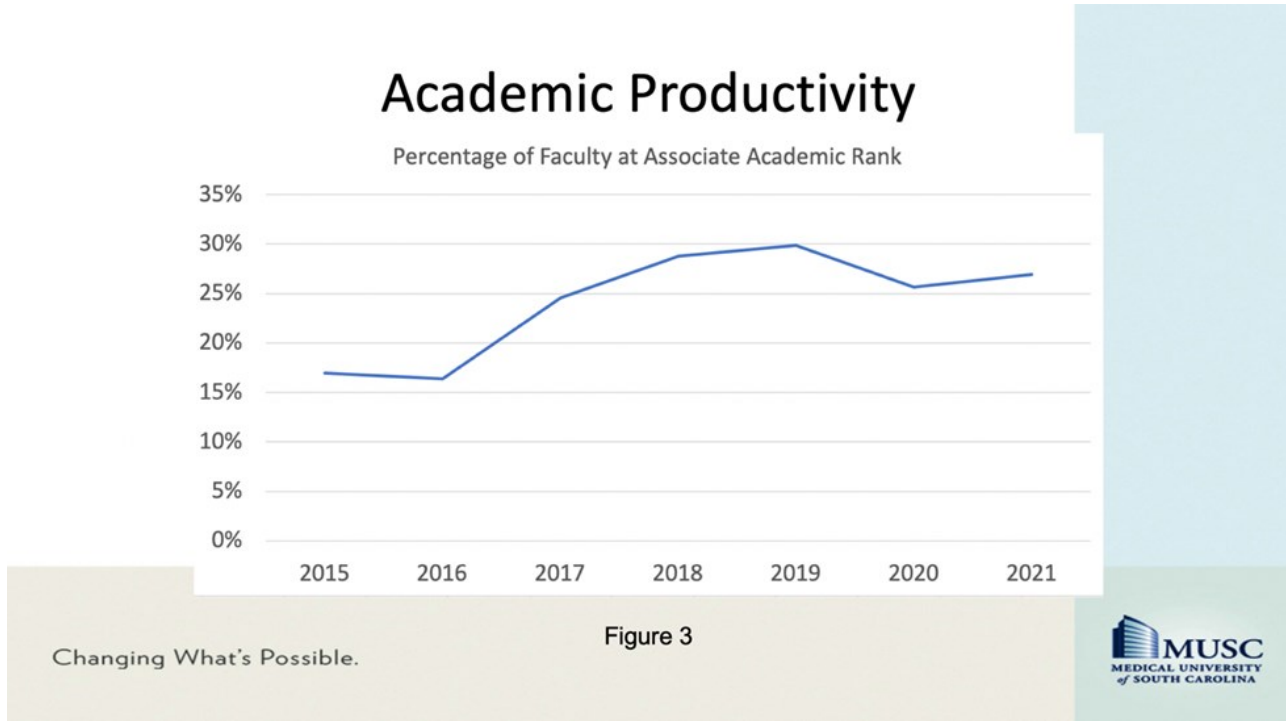
Figure 2

Changing What's Possible.

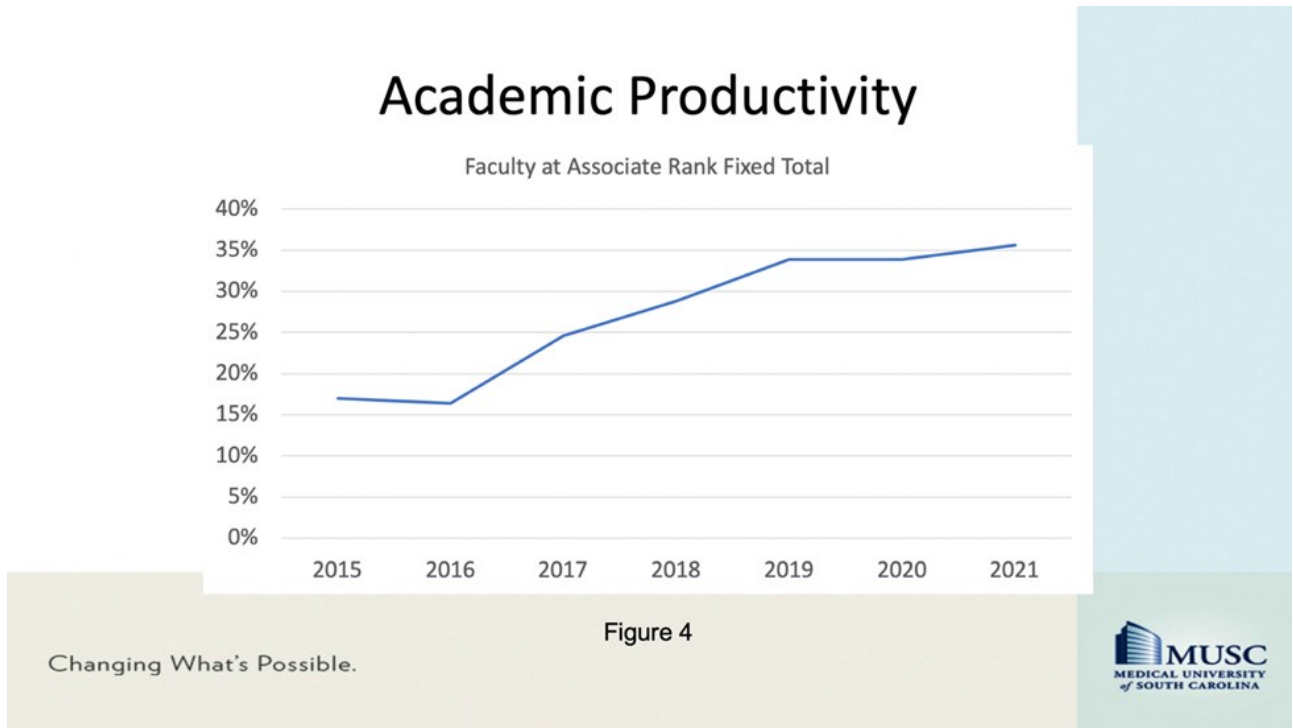


DEPARTMENT ANNUAL RESEARCH SYMPOSIUM (CONTINUED...)

The surge in academic productivity over the last 10 years has no doubt been partially driven by and contributed significantly to faculty promotion. The percentage of faculty at the rank of Associate Professor roughly doubled in a brief span between 2016 and 2019 (fig.3).

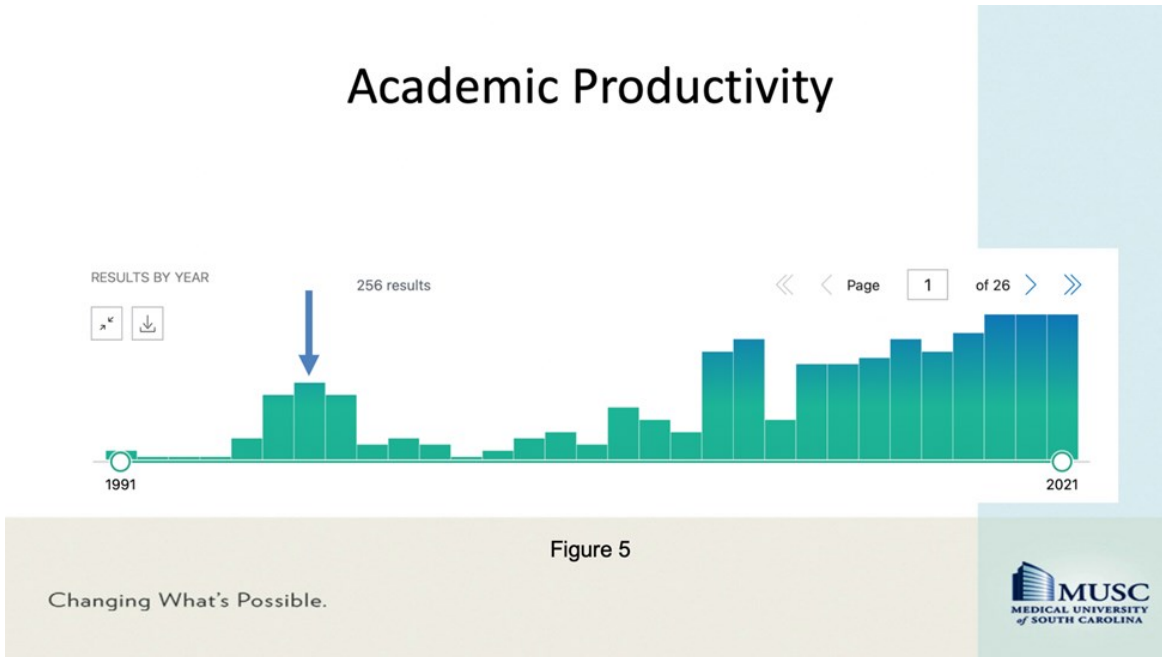


Note that the apparent decline during the last couple years is not a function of decreased academic productivity, but rather rapid growth in the department. Freezing total faculty number at 2019 levels shows continued growth in the percentage of faculty at the rank of Associate Professor, at a much more sustainable long term rate (fig.4).



DEPARTMENT ANNUAL RESEARCH SYMPOSIUM (CONTINUED...)

None of this would have been possible without the efforts of many working together as a team. I would, however, like to specifically recognize several faculty members for their efforts. Figure 5 below is a histogram of Pubmed publications per year for all current faculty.



The blue arrow in fig.5 points to 1997. All of the publications represented were produced by Dr. Reeves or Dr. Hebbar. It is important to recognize the long standing and ongoing contributions of these two pioneers in our department. I would also like to recognize Dr. Sylvia Wilson who's energy and dedication have driven numerous collaborative projects.

Please contact me any time if you have a project you would like to present at a future departmental symposium. ~ *Eric Bolin*

DEPARTMENT NEWBORNS!

Sarah Zuniga and family welcomed Polly on November 22, 2021 at 11:38am weighing 7lbs 6ozs! Big sister Finley adores her little sister.



RESIDENT SURGICAL AIRWAY SIMULATION- DR. SIRIANNI AND HURT

The “cannot intubate, cannot ventilate” scenario is one of the most feared situations for anesthesia providers. Practice guidelines are routinely updated and published by the American Society of Anesthesiologists to address the anticipated and unanticipated difficult airway.¹ However, as ASA clearly states in their 2022 Highlights Box, these guidelines “specifically address difficult airway management. The guidelines **do not** address education, training, or certification requirements for practitioners who provide anesthesia and airway management.” Education and hands on practice through simulation of the difficult airway are mainstays of anesthesia training. However, most training is limited or non-existent when it comes to the Emergency Pathway of the ASA Difficult Airway Algorithm, specifically regarding the **emergency invasive airway** aka surgical airways or subglottic airways (Figure 1).¹ “Invasive airway techniques include surgical cricothyrotomy, needle cricothyrotomy with a pressure-regulated device, large-bore cannula cricothyrotomy, or surgical tracheostomy. Elective invasive airway techniques include the above and retrograde wire-guided intubation and percutaneous tracheostomy. Also consider rigid bronchoscopy and ECMO.” Most training is informal and verbalized with limited hands on practice and no certification process. Invasive airway skills are occasionally taught with pig tracheas, cadavers, or simulation manikins. As an anesthesia department at MUSC, we are taking the steps to formalize invasive airway training through simulation, tracking actual clinical use, and studying retention of learned skills.

As you may remember from a *Sleepy Times* edition last year, we did invasive airway training for the anesthesia faculty. This year our goal was to formalize the simulation and teach all of the anesthesia residents. Over 5 days, we were able to successfully train 45 residents, 7 fellows, and 10 additional faculty members. Prior to simulation, the residents were provided a step-by-step checklist and two educational videos <5 minutes long to watch in preparation. Training consisted of roughly 1 hour per two trainees to learn transtracheal jet ventilation (TTJV) and bougie cricothyrotomy. During this time, a trainer (Dr. Schaefer, Sirianni, or Hurt) would go through an invasive airway technique and then have one trainee practice with or without a checklist. The concepts of mastery based practice (MBP) and overtraining were used so that the first trainee would repeat the simulation until they were able to correctly perform all checklist steps in under 45 seconds twice in a row. The second trainee would then go through the same process, although usually with faster initial attempts as they had the advantage of cooperative learning having just viewed trainee one’s 3+ attempts. Once both trainees were able to successfully complete the MBP, a new simulation scenario would be started to “test” their new skill and “pass” the course. This was completed for both the TTJV and then bougie cricothyrotomy.

Feedback was overwhelmingly positive from all who participated, even those who suffered minor needle stick injuries. Thankfully there were no injuries with a scalpel despite most trainees rarely using them except for central lines. Equipment was generously purchased and provided by the anesthesia department including but not limited to a half torso manikin, jet ventilator, air compressor, 11-blade scalpels, jelco needles, bougies, ETTs, and bandages. Special thanks to the anesthesia department administrators, Drs. Reeves, Guldán, Schaefer, Hurt and Sirianni, and the chief residents for arranging the schedule and time off for faculty/residents/fellows, for purchasing the necessary equipment to teach the invasive airway skills, and for teaching/running the simulations.

Reference:

Apfelbaum JL, Hagberg CA, Connis RT, et al. 2022 American Society of Anesthesiologists Practice Guidelines for Management of the Difficult Airway. *Anesthesiology*. 2022;136(1):31-81.

doi:10.1097/ALN.0000000000004002

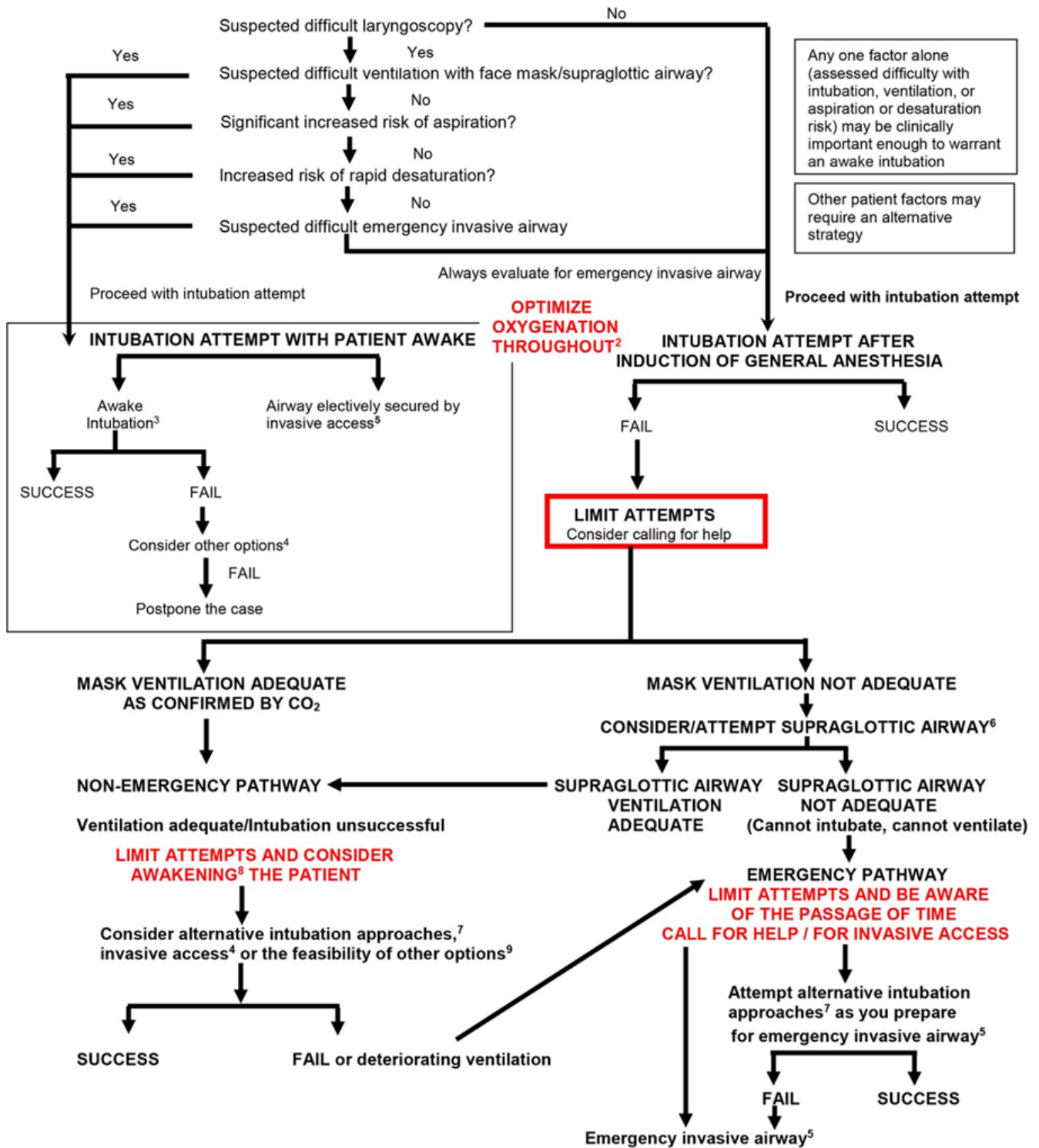
<https://pubs.asahq.org/anesthesiology/article/136/1/31/117915/2022-American-Society-of-Anesthesiologists>

RESIDENT SURGICAL AIRWAY SIMULATION (CONTINUED)

Figure 1. ASA Difficult Airway Algorithm. Emergency pathway with emergency invasive airway route seen in bottom right.¹

ASA DIFFICULT AIRWAY ALGORITHM: ADULT PATIENTS

Pre-Intubation: Before attempting intubation, choose between either an awake or post-induction airway strategy. Choice of strategy and technique should be made by the clinician managing the airway.¹



Any one factor alone (assessed difficulty with intubation, ventilation, or aspiration or desaturation risk) may be clinically important enough to warrant an awake intubation

Other patient factors may require an alternative strategy

OPTIMIZE OXYGENATION THROUGHOUT²

LIMIT ATTEMPTS
Consider calling for help

LIMIT ATTEMPTS AND CONSIDER AWAKENING⁸ THE PATIENT

EMERGENCY PATHWAY
LIMIT ATTEMPTS AND BE AWARE OF THE PASSAGE OF TIME
CALL FOR HELP / FOR INVASIVE ACCESS

Attempt alternative intubation approaches⁷ as you prepare for emergency invasive airway⁵

Emergency invasive airway⁵

RESIDENT SURGICAL AIRWAY SIMULATION (CONTINUED)

The remaining figures shows residents learning and mastering TTJV and bougie cricothyrotomy.



WELLNESS WALKS BY CARLEE CLARK, MD

The department pickleball event was a huge success! Attendance was impressive, and we had doubles games going on two courts the whole time. Stephanie Whitener's serve was on point! Andrea Lazaar was new to the sport, but had some impressive skills! I really enjoyed the time outside of work with everyone and their families, and plan on making pickleball a regular on the wellness rotation. A special thanks to Loren Frances, Hannah Bell and Stephanie Whitener who regularly attend the wellness events and help me with ideas!!



CONGRATULATIONS DR. STEVEN VRANIAN!

Dr. Steven Vranian received 1st place in the Pain Society of the Carolinas annual trainee poster Competition! He won \$500 for his efforts. Congratulations!



WEST ASHLEY MEDICAL PAVILION HOLIDAY BREAKFAST AND SECRET SANTA GIFT EXCHANGE

West Ashley Medical Pavilion had a holiday breakfast and secret Santa gift exchange. It included CRNAs, Pre/post staff, OR Staff, GI staff, pharmacists, Pas and housekeeping. It was a very fun and inclusive day!



TOYS FOR TOTS

Thank you to everyone that brought a toy for the Toys for Tots drive! We filled three large boxes that were overflowing. Due to your generosity, there will be a lot of happy kids out there this year.



ANNUAL HOLIDAY OFFICE DOOR DECORATING CONTEST

Congratulations to the winners of this year's door decorating contest! Please see pictures of their doors below along with a few other doors from this years competition.

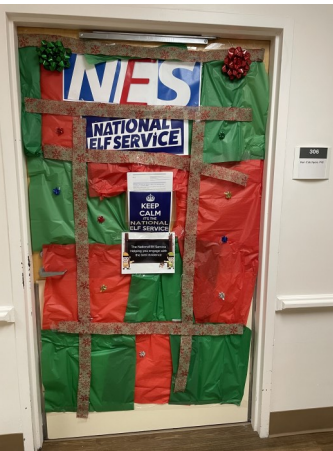
1st Place :
Hercules Brown



2nd Place for Department & 1st place for SJCH Door contest:
Dr. Rovner and Dr. Musci



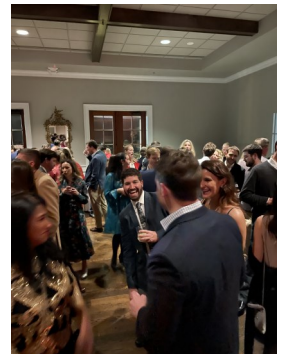
3rd Place :
Elizabeth Morrison & Savannah Crocker



ANNUAL HOLIDAY PARTY - DECEMBER 10, 2021

I hope you all enjoyed our annual holiday party as much as Cathy and I did. I want to personally thank Glenda Ross for the table decorations and the advance planning.

The Induction Agents did a great job as well. It was fun being together again. ~Dr. Scott Reeves



ANNUAL HOLIDAY PARTY



ANNUAL HOLIDAY PARTY



ADMINISTRATIVE BREAKFAST AT RUBY SUNSHINE

Our Administrative staff had a well deserved Holiday Breakfast at a wonderful new restaurant, Ruby Sunshine on East Bay Street!



WELCOME CHARLOTTE BARRON, CRNA AND JASON CAGE, CRNA TO OUR DEPARTMENT



Ms. Charlotte Barron joined the University Hospital Nurse Anesthesia practice group after years of practice in Louisiana and Mississippi. Charlotte is a graduate of South Alabama University with a BSN. After gaining critical care experience, she entered the Charity Hospital Nurse Anesthesia Program graduating with a Masters in Nurse Anesthesiology. She worked in the New Orleans area for twenty years, then the Mississippi gulf area before arriving in Charleston. She enjoys the outdoors and her two children, Elizabeth 23, recently graduating nursing school, and son Alexander. She is excited to join this practice.



Jason Cage joins us after 6 years in private practice outside of Washington, DC. He completed anesthesia training at the University of Pittsburgh in 2016. Jason met his amazing and beautiful wife during anesthesia training and they married shortly after school. Their "destination" wedding happened right here on the beaches of IOP and included their English Bulldog, Troy. Jason loves to golf, enjoys cooking, and is slightly obsessed with all things Peloton. Above all of the amazing things that Charleston offers, Jason is most excited to try all the different BBQ places in the area.

ROBIN BUCHANAN'S CRNA RETIREMENT PARTY

Robin was pleasantly surprised and was grateful to everyone's efforts to make this happen. Carol, with the environmental services dept/caterer/decorator did a fabulous job with the food and décor!! She is amazing!!



SPECIAL RECOGNITION FROM THE CHARLESTON DIVISION BIOMED DEPT. FOR JAIME SAYERS



Hi Jaime,

Last week, I was with the entire Biomed Engineering team as part of year end activities.

I asked the group to identify those special individuals who merit recognition as going above and beyond to help them be successful this year.

Resoundingly, the department teammates wanted to specifically recognize you for your teamwork with them, attention to detail, and can-do spirit with anesthesia machines.

On behalf of myself and Biomed leadership, Alan Hicks and Don Flowers,

Thank you for helping our engineers do what they need to do for patients and their families!

Andrew Trolley, MBA, CPHQ

Chief Operating Officer, Charleston division

MUSC Health



NOVEMBER/DECEMBER SJCH OR EMPLOYEE OF THE MONTH!

Charlott Goya, OR RN

As our second OR Employee of the Month!

Nov./Dec. 2021

“Charlott received her BSN in 2010 in Baguio City, Philippines. She began practicing as an RN in pediatric and PICU at Baguio in 2011. Charlott received her RN license for the US in 2017 and worked on a post-surgical care unit and in the urology clinic prior to joining the SJCH OR team in the Spring of 2020. After the COVID furloughs, she restarted her OR training and has been working independently in the SJCH OR since December 2020. Since that time, Charlott has worked diligently to learn and grow in a variety of services. She is highly respected for her skills, positive attitude, and strong work ethic. We are thrilled to have Charlott on our team!”- Melinda Biller

Charlott was nominated by multiple attendings for her work ethic and enthusiasm. “She always brings her A game. She understands efficiency and works diligently. She makes the OR a safe place for our patients to be treated.” She is always a pleasure to work with. We are all happy when we see Charlott in our room!

Congratulations Charlott!

Nicole McCoy MD

Assistant Professor, Anesthesiology

Director of Pediatric Solid Organ Transplant

Division of Pediatric Anesthesia

Anesthesia and Perioperative Medicine



RESEARCH CORNER



Dr. Nicole McCoy

OPINION
published: 29 November 2021
doi: 10.3389/fped.2021.791607



Cryoanalgesia and Lung Isolation: A New Challenge for the Nuss Procedure Made Easier With the EZ-Blocker™

Nicole McCoy^{1*} and Laura Hollinger²

¹ Anesthesia and Perioperative Medicine, Medical University of South Carolina, Charleston, SC, United States, ² Department of Surgery, Division of Pediatric Surgery, Medical University of South Carolina, Charleston, SC, United States

MUSC ANESTHESIOLOGY ALUMNI CHARITY GOLF TOURNAMENT

For all those interested in participating in the Inaugural MUSC Anesthesiology Alumni Charity Golf Tournament, please email or text Dr. Jim Papadea directly with the names of your four (4) individual team members. Signup for the golf tournament will extend until **February 1, 2022**.

For those participating, additional details and information will be provided with regards to registration, payment, etc.

Once again, the details of the tournament include:

Date: **Saturday, February 12th, 2022**

Location: **City of Charleston Municipal Golf Course**

Time: **9:00am**

Format: **Scramble (no handicaps), Shot-gun start; teams of four (4) individuals**

Cost: **\$50/person**; (includes catered BBQ lunch + 18 holes golf + carts + range balls + taxes)

Prizes: **1st Place Team: \$400**

2nd Place Team: \$300

*further donations and contributions from local businesses/individuals will determine what additional prizes can be allocated)

Beneficiary: **Lowcountry Food Bank** (financial contributions and canned good donations are encouraged)

Dr. Jim Papadea

803-360-8097

papadea@musc.edu



GRAND ROUNDS- NOVEMBER 2021

**“Subspecialty Meeting”
January 4, 2022**

**“Syndromes grow up too: Pediatric syn-
dromes in the adult patient ”
January 11, 2022**

Dr. Natalie Barnett

Assistant Professor

**Dept. of Anesthesia & Perioperative Medicine
Medical University of South Carolina**



**“Peds Regional Topic-TBD ”
January 18, 2022**

Dr. Walid Alrayashi

Instructor of Anesthesia

**Dept. of Anesthesiology, Critical Care and
Pain Medicine**

Harvard Medical School



**“Peds Topic - Pediatric Crisis TBD ”
January 25, 2022**

Dr. Anna Clebone

**Associate Professor of Anesthesia and Critical
Care**

University of Chicago Medical Center

University of Chicago Medical Center

DEPARTMENT OF ANESTHESIA AND
PERIOPERATIVE MEDICINE

Email: hameedi@musc.edu
Phone: 843-792-9369
Fax: 843-792-9314



I HUNG THE MOON

Please don't forget to nominate your co-workers for going 'Beyond the Call of Duty.' I Hung The Moon slips are available at the 3rd floor front desk and may

[CHECK OUT OUR WEBSITE](#)

Future Events/Lectures

Intern Lecture Series

1/6 - Anesthesia for GI Surgery

1/20 - Endocrinology

CA 1 Lecture Series

1/5 - Anesthesia for Patients with Neuromuscular and Endocrine Disease

1/12 - Anesthetic Complications

1/19 - Anesthesia for Patients with Kidney Disease

1/26 - Maternal And Fetal Physiology; Obstetric Anesthesia

CA 2/3 Lecture Series

Per Rotations

Grand Rounds

See Page 17

SAVE THE DATE!!!!



It's never too early to mark your calendar for the 2022 Department Holiday Party. This will take place on December 3, 2022 at the Carolina Yacht Club.



Follow us on Facebook, Instagram, and
Twitter:

<https://www.facebook.com/MUSCANesthesia/>

<https://www.instagram.com/musc.anesthesiology/>

 Follow @MUSC_Anesthesia

ONE MUSC Strategic Plan

We Would Love to Hear From You!

If you have ideas or would like to contribute to *Sleepy Times*, the deadline for the February edition will be January 21, 2022.