DEPARTMENT OF ANESTHESIA AND PERIOPERATIVE MEDICINE

# SLEEPY TIMES

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Inside This Issue	:
-Message from Chairman	1-2
-Absentee Voting	2
-FY17 Dept. Wins	3
-OB Bundles	4-8
-ASRA Newsletter Article	9-12
-New Program Director	12
-Y-PAC Discussion	13
-Letter from Patient	14
-Department Events	15
-AHA Chili Cook-Off Contest Winner	16
-Grand Rounds	17
-I Hung the Moon	18





### MESSAGE FROM THE CHAIRMAN -SCOTT T. REEVES, MD, MBA

Thankfully, Hurricane Florence came and went without much of an effect on Charleston, but it did have a great effect on hospital and departmental operations. Florence was the most unpredictable storm we have had recently. Due to five previous events in the last three years, we received great feedback from our teams, and this was a storm for which we were well prepared. Team A, which was truly the A-Team, although activated 36-48 hours



Dr. Reeves

prior to the arrival of any real weather, did an amazing job. Each site took care of a multitude of patients, including cardiac, transplant and complicated OB cases. They did so in great spirits (see photos). We made sure that this year, our teams were large enough so everyone had down time away from patient care. We want to thank all of Team A for their dedication and excellent patient care.







### **OPENING STATEMENT CONTINUED...**

We have already received some great feedback from both Team A & B and other members of the department and will be discussing how to update our weather plan to further improve for our next event. We can't thank the departmental leadership enough for all of the help with coordinating schedules and communicating with their teams.

<u>Main Team A</u> Robert Harvey Sam Vizzini Hal Mahafee Matt Daylami Andrew Klein Cipriano Ayala Mark Abumoussa Chris Fatora Ali Lataille John Green Katie Smith Jamie Sayers Treffle Beaupre

ART Team A OR and ICU Tim Heinke Laura Roberts Ryan Smith Jared McKinnon Kacie Bhushan Ulrika O'Neil Geoff Kilgore Hannah Mather Devin Antonovich Rvan Mims Jerad Beall Emma Raidt Hanna Purcell Nick Gilmore Kevin Massev

Main Team B David Stoll Ryan Gunselman Kevin Draper Brooks Duff Marc Hassid Lauren Moore Joey Seymour Lynn McInerny Sheri Zhou Eugenia Pugach Keeland Bankhead ART Team B and ICU Tara Kelly Ana Castro Ian Osburn Matthew Graves Carlee Clark Chris Skorke Alan Finley Greg Foster Annette Cooper Rachel Hanna Katie Cardwell

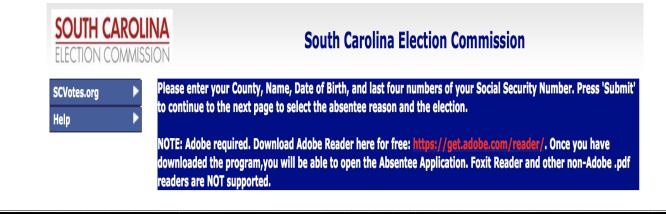
### ABSENTEE VOTING

We will soon have our midterm elections in November. It is frequently difficult for us to get away in time to actually vote due to the nature of our jobs at MUSC. Fortunately, the State of South Carolina makes voting by absentee ballot easy. Follow the link below to register. Once complete, you will print a SC Application for Absentee ballot to sign and mail. TO VOTE IN THE 2018 GENERAL ELECTION, YOU MUST BE REGISTERED BY SUNDAY, OCTOBER 7.

There are many reasons to be qualified to vote by absentee ballot, including:

For reasons of employment will not be able to vote on Election day; going on vacation during the Election; students attending school outside their county of residence, etc. Register today...

https://info.scvotes.sc.gov/Eng/VoterInquiry/VoterInformationRequest.aspx?PageMode=AbsenteeRequest



### FY2017 DEPARTMENTAL WINS BY CARLEE CLARK, MD

### ICCE, ICCE, Baby

At the end of the fiscal year, Brenda Dorman and I were asked to identify our top 5 wins for Anesthesia ICCE. We discussed this with Dr. Reeves and submitted our top 5, but we actually had a lot more than 5 accomplishments and we wanted to share them with everyone. We felt like this would be a great opportunity to let the whole department know what the ICCE has been working on and will continue to be working towards this year. FY2017 was a great year for setting groundwork and we have been able to accomplish a lot with more involvement and feedback from members of the



department. A big thank you to all of those who have participated, discussed, trialed, failed and succeeded. Over the next few months, we are going to highlight some of the work below in Sleepy Times to give a more in-depth view of the work we are doing.

### Top 5 Wins for 2018

- 1. Reorganization and relocation of the Preoperative Assessment Clinic and implementation of new strategy
- 2. New Pain Management Clinic at MUSC East
- 3. Recruitment of new anesthesia providers in preparation for CAC and SJCH
- 4. Initiation of Critical Care Team into the CVICU
- 5. Collaboration with HV ICCE in getting MUSC Heart Transplant Program recertification

### All of the Contenders (in no particular order)

- Development of the Equipment Task Force
- Development and recruitment for a CRNA Educator position, Dennis McKenna
- Drs. Renuka George, Lauren Moore, and Dennis McKenna joined the Hospital Value Based Committee
- All of the amazing work that the pediatric leadership is doing with operationalizing CAC and SJWC
- Naming Cory Furse as Medical Director for CAC
- QAPI: All faculty, CRNAs and residents now have an EPIC Quality dashboard with some individual metrics
- Moving Ophthalmology to RT from ART
- Navigated many medication shortages without compromising patient care

### OB SAFETY BUNDLES BY LATHA HEBBAR, MD

### National Partnership for Maternal Safety: Bundles of Maternal Care

Over the next three editions of Sleepy Times, I will be penning the currently existent "Safety Bundles of Maternal Care."

*Background:* A patient safety bundle is a set of straightforward, evidence-based recommendations for practice and care processes known to improve outcomes. A bundle is not a new guideline but rather represents a selection of existing guidelines and recommendations in a form that aids implementation and consistency of practice. In 2014, the National Partnership for Maternal Safety Recognition was created within the Council on Patients Safety in Women's Health Care to reduce maternal mortality and morbidity in the United States. This collaborative



initiative with representation from all major women's health care professional organizations (including SOAP) has created three priority *safety bundles* for the most common preventable causes of severe maternal morbidity and maternal death: *obstetric hemorrhage, severe hypertension in pregnancy, and peripartum venous thromboembolism.* 

### **Obstetric hemorrhage:**

Obstetric hemorrhage can be antepartum or postpartum.

*Antepartum hemorrhage:* The incidence of antepartum hemorrhage has been steady over the years. The most common cause of antepartum hemorrhage is placenta previa. Other causes include placental abruption, uterine rupture, genital trauma and vasa previa.

Postpartum hemorrhage: The incidence of PPH is on the increase and it is defined as EBL > 500 mL following vaginal delivery and > 1000 mL after CD. At MUSC we active the OB hemorrhage page when EBL > 1000 mL after vaginal delivery and > 1500 mL after CD. Causes of PPH include the **4T's**: Lack of Tone, Trauma, issues with Thrombus formation and Tissue (retained products or abnormal placentation).

*The Consensus bundle for Obstetric Hemorrhage* was published in 2015. (Anesth Analg 2015;121:142-8). The goal of the partnership is the adoption of the safety bundle by every birthing facility in the United States. The bundle for OB hemorrhage is organized into four action domains (4 R's): Readiness, Recognition and Prevention, Response and Reporting and Systems Learning. There are 13 key elements within these 4 action domains.

### Box 1. Obstetric Hemorrhage Safety Bundle From the National Partnership for Maternal Safety, Council on Patient Safety in Women's Health Care

### **Readiness (Every Unit)**

- Hemorrhage cart with supplies, checklist, and instruction cards for intrauterine balloons and compression stitches
- 2. Immediateaccesstohemorrhagemedications(kitorequivalent)
- Establish a response team—who to call when help is needed (blood bank, advanced gynecologic surgery, other support and tertiary services)
- Establish massive and emergency-release transfusion protocols (type-O negative or uncrossmatched)
- 5. Unit education on protocols, unit-based drills (with postdrill debriefs)

### **Recognition and Prevention (Every Patient)**

- Assessment of hemorrhage risk (prenatal, on admission, and at other appropriate times)
- 7. Measurement of cumulative blood loss (formal, as quantitative as possible)
- 8. Active management of the 3rd stage of labor (department-wide protocol)

### **Response (Every Hemorrhage)**

- Unit-standard, stage-based obstetric hemorrhage emergency management plan with checklists
- Support program for patients, families, and staffforall significant hemorrhages

### Reporting and Systems Learning (Every Unit)

- Establish aculture of huddles for high-risk patients and postevent debriefs to identify successes and opportunities
- 12. Multidisciplinary review of serious hemorrhages for systems issues
- Monitor outcomes and process metrics inperinatal quality improvement committee

http://www.safehealthcareforeverywoman.org

### PAGE 5

### OB SAFETY BUNDLES CONTINUED... BY LATHA HEBBAR, MD

At MUSC, we have incorporated all key 13 elements within these four domains. I will briefly walk you through **MUSC's initiatives for decreasing morbidity and mortality due to OB hemorrhage**:

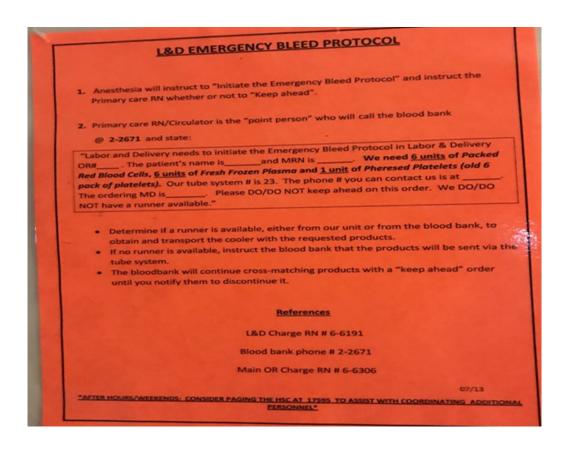
### **Readiness:**

1. Hemorrhage cart with supplies, checklist: we have a separate OB cart with supplies for the obstetric team, in addition we have an open anesthesia hemorrhage bucket with supplies for IV access including RIC lines, pressure bags for rapid fluid/blood administration, A-line kit and IV fluids

2. Immediate access to hemorrhage medications: Our L&D nurses have access to all uterotonics and TXA (stored on L&D Acudose)

3. Establish an immediate response team - we have an OB hemorrhage stat group page which includes obstetricians and anesthesia personnel. Our response to these pages is to grab the OB hemorrhage bucket, evaluate the 4T's of OB hemorrhage (Tone, Trauma, Thrombus and Tissue), help with maternal stabilization including need to activate the OB hemorrhage protocol, transport to OR and establishing adequate IV access

4. We have an established Emergency release transfusion protocol. A scripted phone call by the nurse to the blood bank stating the patients location will result in activation of the emergency OB bleed protocol resulting in the release of 6 PRBC's, 6 FFP and a unit of platelets



### **OB SAFETY BUNDLES CONTINUED...** BY LATHA HEBBAR, MD

## MUSC's PPH Algorithm/Checklist

5. We do have unit education on protocols and unit based drills for OB hemorrhage with succinct debrief sessions following the drills

### START

- Activate OB Hemorrhage page 2-3333 state location
- Open IV Fluids; supplemental oxygen; Assess for additional access
- Conduct vigorous fundal massage
- Assess VS including O2 set q 5 minutes
- Keep patient warm
- Anesthesia Instructs to activate the EMERGENCY BLEED PROTOCOL with 1 person designated primary blood bank contact
- Continue evaluation/documentation of cumulative
- blood loss by weight every 5-15 minutes (1gm=1cc/ml
  - Administer medication as ordered- see table
  - Empty Bladder: straight cath or place Foley with
- urimeter
- Send Labs
- Move to OR for laceration repair or D&C

### CONSIDERATIONS

- Rule out retained products of conception. lacerations, hematoma.
- Inspect for uncontrolled bleeding at all levels Potential etiology: Uterine atony, amniotic fluid
- embolism, uterine inversion, coagulopathy
- Uterine Tamponade Balloon
- Interventional Radiology
- Additional surgical techniques and/or personnel? Consider calling GYN One for surgical backup

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	Methergine	0.4	*	May repeat every 2-1 Fears	Second Second

\*\*\*This table is for reference only\*\*\*

### Recognize:

6. Assessment of hemorrhage risk (prenatal or on admission) - patients at risk for various degrees of OB hemorrhage are incorporated into EPIC

7. Measurement of cumulative blood loss since visual assessment of blood loss has been shown to be inferior relative to gravimetric measurement for accuracy, we perform gravimetric measurement on all our deliveries (both vaginal and cesarean). We have predetermined dry weight for all sizes of sponges, laps and pads we use. Blood loss is thus accurately measured using weighing scales 1 gm = 1 cc of blood

8. Active management of 3rd stage of labor - we have a utertonic protocol for both vaginal and CD

OB Hemorrhage—No Denial-	–No Delay
Low Risk:	Hold
No previous uterine incision	Specimen
<ul> <li>Singleton Pregnancy</li> </ul>	
<ul> <li><u>&lt; 4 previous vaginal births</u></li> </ul>	
<ul> <li>No known bleeding disorder</li> </ul>	
<ul> <li>No history of PPH</li> </ul>	
Medium Risk:	Type and
Prior c/s or uterine surgery	Screen
<ul> <li>Multiple gestation</li> </ul>	
<ul> <li>&gt; 4 previous vaginal births</li> </ul>	
Chorioamnionitis	
<ul> <li>History of previous PPH</li> </ul>	
Large uterine fibroids	
High Risk:	Type and
<ul> <li>Placenta Previa, or low lying</li> </ul>	Cross
<ul> <li>Suspected accreta or percreta</li> </ul>	
• HCT < 30 AND other risk fac-	
tors	Q =
<ul> <li>Platelets &lt; 100,000</li> </ul>	
<ul> <li>Active bleeding on admit</li> </ul>	
<ul> <li>Known coagulopathy</li> </ul>	لالتكال

### SLEEPY TIMES

Stage 2

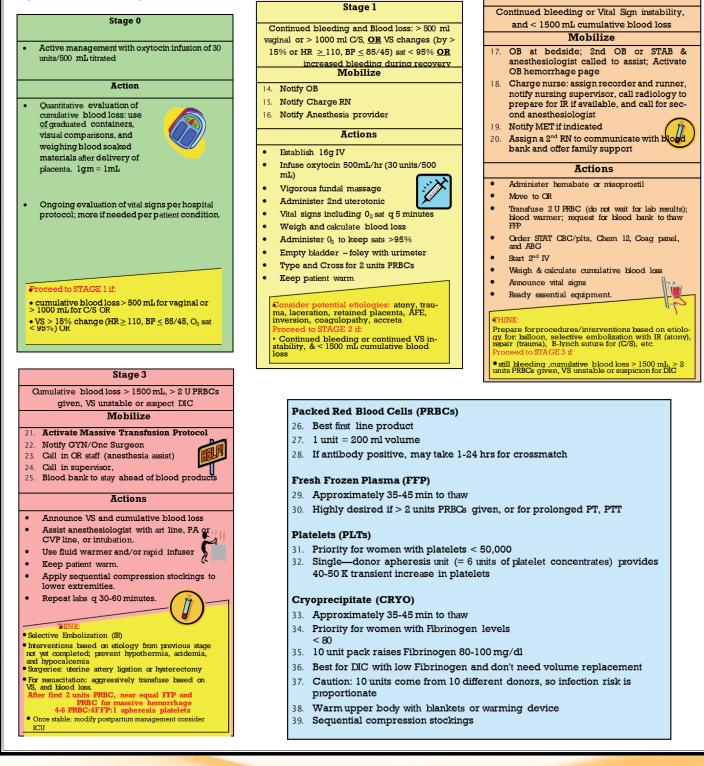
### PAGE 7

### OB SAFETY BUNDLES CONTINUED... BY LATHA HEBBAR, MD

### Response:

9. We have a stage based OB hemorrhage emergency management plan similar to CMQCC. These cards are laminated and placed in the OB hemorrhage bucket

10. We do have a support program for patients, families and staff for significant hemorrhage

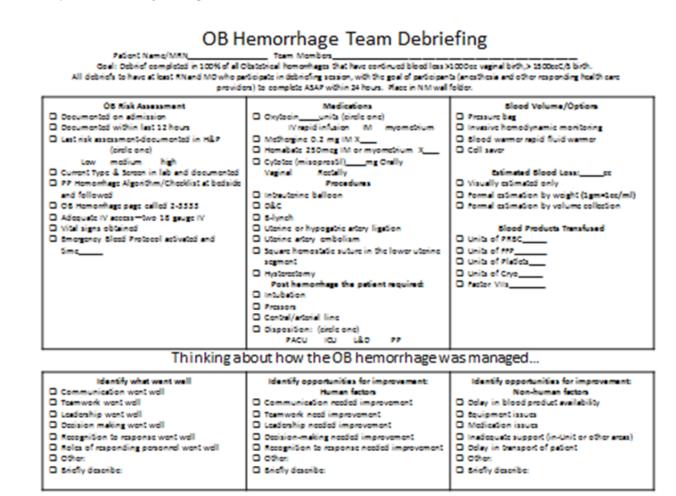




### OB SAFETY BUNDLES CONTINUED... BY LATHA HEBBAR, MD

### Reporting and Systems Learning:

11. Every OB hemorrhage is required to have a debrief – we do a huddle and fill out the debrief form



- 12. Monthly multidisciplinary OB safety meeting review for systems issues
- 13. Outcomes are monitored in the monthly Perinatal Quality improvement committee meeting

<u>The implementation of this multidisciplinary Safety Bundle at MUSC will effectively reduce the frequency</u> of severe obstetric hemorrhage and improve maternal outcomes.

### DEPARTMENT FACULTY FEATURED IN AUGUST 2018 ASRA NEWSLETTER

### "Oh Mg!" Magnesium: A Powerful Tool in the Perioperative Setting

Ithough a little bag of magnesium sulfate might not look like much, the divalent cation possesses numerous attributes that have served anesthesiologists well for many decades. Magnesium is a cofactor to ATP production, aids in ion transportation, competitively antagonizes calcium release, inhibits catecholamine release, and antagonizes N-methyl-D-aspartate (NMDA) receptors. Although its analgesic properties may have been overlooked for newer and more sophisticated drugs, magnesium has resurfaced in the era of bundled payments, enhanced recovery pathways, and multimodal analgesic plans.



Renuka M. George, MD Assistant Professor Department of Anesthesia and Perioperative Medicine



Jackson M. Condrey, MD Regional Anesthesia Fellow Department of Anesthesia and Perioperative Medicine



Sylvia H. Wilson, MD Associate Professor Department of Anesthesia and Perioperative Medicine

### Over time, magnesium has been used

for a variety of perioperative applications. It was first examined as a potential induction agent in the early 1900s, but its use was unsuccessful because of poor bioavailability and its limited capacity to cross the blood-brain barrier. However, increased interest in the 1980s focused on magnesium's ability to antagonize NMDA receptors. Since then, numerous studies, reviews, and meta-analyses have attempted to clarify the role of perioperative magnesium.

#### ANALGESIA

Both animal and clinical studies have highlighted magnesium's antinociceptive effects. Its proposed mechanism of action includes competitive and noncompetitive NMDA antagonism of hippocampal presynaptic calcium channels that regulate aspartate "Although its analgesic properties may have been overlooked for newer and more sophisticated drugs, magnesium has resurfaced in the era of bundled payments, enhanced recovery pathways, and multimodal analgesic plans."

and glutamate. Both pathways are thought to contribute to the prevention of central sensitization. In animal models, magnesium has inhibited hyperalgesia, amplified the analgesic effects of low-dose morphine, and delayed morphine tolerance.<sup>1,2</sup>

Several studies, reviews, and meta-analyses have examined intravenous (IV) magnesium in the intraoperative setting with conflicting results. In patients undergoing abdominal hysterectomy and randomized to magnesium (50 mg/kg bolus with 15 mg/kg/ hr infusion for 6 hours) or saline, postoperative pain scores and analgesic demand boluses did not differ between the groups.<sup>3</sup> However, all the patients had patient-controlled epidural anesthesia. Medical University of South Carolina Charleston, South Carolina

In a separate study of hysterectomy patients, subjects received magnesium (200 mg bolus on induction and 200 mg/hr infusion for 5 hours) or placebo and were followed for 48 hours.<sup>4</sup> The magnesium group demonstrated higher pain scores 3 hours following their surgical procedure yet decreased opioid consumption 1 hour following surgery, but no other differences were noted between groups. In children undergoing tonsillectomy and administered placebo, ketamine, magnesium (30 mg/kg

bolus intraoperatively), or ketamine plus magnesium, significant differences in pain scores were not noted between groups.<sup>5</sup> With all these studies, the wide variety of doses and baseline pain medications, as well as numerous other confounding factors, may have contributed to the negative findings.

Alternatively, numerous clinical studies have demonstrated the antinociceptive effects of magnesium; however, dosing strategies were highly variable. Postoperative analgesia was improved after abdominal hysterectomy with an initial bolus of IV magnesium (30 mg/kg) followed by an infusion (0.5 g/hr).<sup>6</sup> Likewise, an IV magnesium bolus (50 mg/kg) at induction improved pain and decreased opioid consumption following lumbar spine surgery.<sup>7</sup> In addition to decreased opioid consumption and shorter recovery room stays, an IV magnesium bolus (30 mg/kg) within an hour of induction followed by an infusion (9 mg/kg/hr) decreased postoperative agitation following functional endoscopic sinus surgery.<sup>8</sup> The authors attributed the findings to improved pain

### DEPARTMENT FACULTY FEATURED IN AUGUST 2018 ASRA NEWSLETTER CONT...

### Table 1: Summary of magnesium dosing strategies.<sup>10</sup>

Surgery	Pain rating*	Bolus (mg/kg)	Time before induction (minutes)	Infusion (mg/kg/hr)	Magnesium mean fentanyl consumption (mcg)	Control mean fentanyl consumption (mcg)	Mean difference in fentanyl consumption (mcg) 95% Cl
Upper extremity	Severe	30	15	10	89	104.8	-15.8
Laparotomy	Severe	40	15	10	70.05	100.55	-30.5
Open cholecystectomy	Severe	50	15	8	52.81	83.64	-30.83
Hysterectomy	Severe	40	15	0/10/20**	555.72	588.88	-33.16
Lumbar discectomy	Moderate	50	10	20	100	147	-47
Abdominal hernioplasty	Moderate	30	After	6	192.44	288.8	-96.36
Endoscopy sinus surgery	Moderate	40	10	15	82.27	173.04	-90.87
Laparoscopy cholecystectomy	Mild	50	15	25	254	323	-69

\* According to surgical procedure

\*\* 0, 10, and 20 mg/kg/hr infusions were studied. A dose of 10 mg/kg/hr was found to reduce narcotic requirements. Increased doses did not yield further benefits and led to more hemodynamic compromise.

control, magnesium's neuroprotective capabilities, and decreases in overall anesthetic requirements.

Furthermore, magnesium can counter remifentanil-induced hyperalgesia in patients undergoing thyroidectomy. However, it can also mask hypocalcemia, a potential complication in thyroidectomies.<sup>9</sup>

A meta-analysis of 13 studies with 694 patients undergoing a variety of surgical procedures found that a magnesium bolus (30–50 mg/kg) and infusion (6–25 mg/kg/hr) decreased opioid consumption without compromising hemodynamic stability.<sup>10</sup> Based on this information and excluding studies that used alfentanil, morphine, and remifentanil for the sake of standardization, a loading dose of magnesium (30–50 mg/kg given 10–15 minutes prior or shortly after induction) followed by an infusion (8–15 mg/kg/hr) significantly reduced fentanyl consumption overall and in surgeries associated with significant pain (see Table 1 Adapted from data in meta-analysis).<sup>10</sup>

OTHER PERIOPERATIVE ROLES AND ADVERSE EFFECTS When using perioperative magnesium, providers must understand its other properties and possible adverse effects. Magnesium has documented central and peripheral neurologic effects. It increases microcirculation in cerebral blood flow and may prevent vasospasm in patients suffering from aneurysmal subarachnoid hemorrhage.<sup>11</sup> In parturients with pre-eclampsia, magnesium provides systemic, cerebral, and uterine vasodilation coupled with neuroprotection and seizure prophylaxis. This offers maternal and fetal neuroprotection and may lower the risk of fetal cerebral palsy in women at risk for preterm birth.<sup>12</sup> Peripherally, magnesium potentiates nondepolarizing muscle relaxants at both the pre- and postsynaptic sites. Magnesium infusions (60 mg/kg over 15 minutes) administered prior to induction can reduce rocuronium onset time by 65%.<sup>13</sup> Similarly, magnesium may reduce succinylcholine induced fasciculations<sup>14</sup> and the incidence and intensity of myoclonus caused by etomidate.<sup>15</sup>

As a competitive antagonist of L-type calcium channels, magnesium also impacts the cardiac and pulmonary systems. Magnesium has both antiarrhythmic properties and is the treatment for Torsades de Pointes (pulseless: 1–2 g IV over 5–20 minutes; pulse present 1–2 g over 5–60 minutes). Concomitantly, it promotes arterial vasodilation and prevents catecholamine secretion.<sup>16</sup> Those cardiovascular characteristics may be desirable to assist in the perioperative management of patients with pathologically elevated hemodynamics, such as pheochromocytoma. Moreover, antagonism of calcium-induced muscle contraction by magnesium potentiates bronchodilation, and

### DEPARTMENT FACULTY FEATURED IN AUGUST 2018 ASRA NEWSLETTER CONT...

### Table 2: Summary of magnesium toxicity.

Serum Level	Symptoms	Signs	ECG findings	Other concerns
4–6 mEq/L	Nausea, vomiting, lethargy, and headache	Diminish DTRs and hypotension because of vasodilation		Associated with increased potassium and decreased calcium levels
6–10 mEq/L	Nausea, vomiting, lethargy, and headache	Absent DTRs, bradycardia, and hypotension	Increased QRS duration and prolongation of PR and QT intervals	Inhibition PTH release causing systemic decreased calcium levels
>10 mEq/L		Coma, paralysis, respiratory failure, and cardiac arrest	Complete heart block	

Abbreviations: DTRs, deep tendon reflexes; ECG, electrocardiogram; PTH, parathyroid hormone

a 2 g IV bolus of magnesium improves peak expiratory flow rates and forced expiratory volumes in acute asthma attacks.<sup>17</sup>

Although magnesium has numerous benefits and a large therapeutic window, its use is not entirely without risk: a summary of magnesium toxicity is presented in Table 2. Consequently, close monitoring is required for all patients receiving therapeutic magnesium, and administration must be stopped with the development of any signs or symptoms of hypermagnesemia. Additionally, IV calcium acts as an antagonist to magnesium and should be administered immediately if patients experience sequelae of hypermagnesemia.

Therapeutic magnesium administration should be used with caution or avoided in certain patient populations. Given magnesium's propensity to cause muscle weakness and electrocardiogram changes, it is best avoided in patients with pre-existing atrioventricular block and those with chronic neuromuscular diseases, such as myasthenia gravis. Similarly, because magnesium homeostasis is maintained through renal excretion, patients who have renal impairment are at higher risk for accumulating toxic levels. Notably, patients with end-stage renal failure may require dialysis to reduce magnesium levels. Conversely, patients with normal renal function or moderate renal impairment may receive fluids and loop diuretics to hasten reduction of magnesium levels.

### CONCLUSION

The cost of the opioid epidemic in the United States is astronomically high on patients, families, and communities. Shipton et al<sup>18</sup> reported that the economic liability of opioid misuse in the United States is projected to exceed \$78 billion a year. This, in combination with recent drug shortages in the operating room, has resulted in increased demand for anesthesiologists to seek out nonopiate analgesic strategies in the perioperative period, in which magnesium plays an important role.<sup>19</sup> Magnesium has a long history of perioperative use for numerous indications. A definitive analgesic dose should be the product of consideration of patient comorbidities, type of surgery, and anesthetic requirements. Based on recent literature, a loading dose of magnesium of 30–50 mg/kg followed by an infusion of 8–15 mg/kg/hr can be a powerful tool in an anesthesiologist's antinociceptive arsenal. In the era of enhanced recovery after surgery and opioid abuse epidemics, the time has never been better to incorporate this potent analgesic into our daily perioperative care.

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### CONGRATULATIONS TO RENUKA GEORGE, MD!

Renuka George is delighted to serve as the new Associate Program Director for the Anesthesia Residency Program. She was born and grew up on the hospital campus of the Christian Medical College in Vellore, Tamil Nadu, India. The hospital campus was started by an American missionary, Dr. Ida Scudder, who believed in the importance of the Woman Physician. Renuka is heavily influenced by Dr. Scudder's legacy as well as her parents and husband, who all practice medicine. Renuka has led a rather nomadic life in several states and countries, which has inspired her appreciation for diversity and other people's perspectives. She graduated from Trinity University in San Antonio, Texas, with a BS in Business Administration/Marketing and went on to Ross University School of Medicine, Dominica. Renuka married her husband, Dr. Burke Gallagher, during medical school and is thrilled that he will be completing his residency soon. She went on to complete her anesthesia residency in 2016 at the University of Texas Health Science Center in Houston, where she served as a chief resident. Since then, Renuka completed her fellowship in Regional Anesthesia and Acute Pain Management at MUSC and has served as faculty here since 2017. Renuka looks forward to expanding her passion for teaching and diverse perspective within this new role. Congratulations, Renuka!

### PAGE 12

### PAGE 13

### ANESTHESIA DISCUSSION WITH YOUTH-PATIENT ADVISORY COUNCIL

A few members of the pediatric anesthesia team had the opportunity recently to meet with the Youth-Patient Advisory Council (Y-PAC). This is a group of teenagers with chronic medical problems who meet with our child life specialists to discuss their experiences and recommendations for the Children's Hospital. We joined the group for their most recent meeting after Tammy Lamont, Chief CRNA at Rutledge Tower, expressed interest in improving our ability to communicate effectively with this age group. The council members were an engaging, energetic group with varying thoughts and preferences. They were very open about their stories with anesthesia.



Not surprisingly, the majority of what they had to say was about the preoperative discussion and their preference for induction technique. Some want to be told everything, some want to

know as little as possible. Some prefer IVs, some prefer mask induction. Some like premed, some hate the loss of control. Regardless of preference, though, they all expressed that they like being asked and given a choice.

The Y-PAC members recently presented at Grand Rounds for the Department of Pediatrics and they created a handout for the clinicians with 12 tips for communicating with patients their age. Although all of the tips don't apply directly to the perioperative arena, most of them do, and most of them can probably be applied to our adult patients as well. If anyone has any ideas on better communicating information with these patients or their families, I'm sure they would love to hear it.

1. Please come prepared when you meet me. I realize you need to ask questions, but know how old I am, if I am a boy or a girl and my diagnoses and history. It helps me trust you and shows you see me as a person, not a patient.

2. Ask me what I like to be called. Tell me what to call you. Some doctors want to be called Dr. Last Name and some let me call you Dr. First Name. Let me know.

3. Please talk to me, not just my parents. This is happening to me and my body.

4. Remember that privacy is important to me. Ask me if I want my parents present or not. Please realize I may have visitors that I don't want to hear my personal information. Ask if this is a good time or if I need a more private setting.

5. It is okay to be honest with me. Offer options, give me choices. I want to be involved in my care and the decisions that are being made about me. Make me part of the team.

6. Use medical words and then interpret that into everyday language...I like to know the medical terms but also appreciate you explaining with words that are easier to understand.

7. When you have to wake us up, do so slowly and with some thought. Turn on the light over the sink, not the big one over my bed. Use a quiet voice...talk to me before you touch me.

8. Realize everyone is different. Some kids want to know all the details, some don't. Don't assume...ask us first.

9. When you talk about me in the hallways, I can still hear you. Just consider that...

10. Even if I have been a long-term patient here, I don't know everyone or everything. Please treat each admission as a new situation for us. Remind me who you are.

11. Let me ask you questions. Tell me at the start that I get to do this, so I can be thinking about them. I may feel overwhelmed at first and not have any questions. Once I have time to think, I will.

12. Listen to what I say and take it seriously. I know my body best, even if I don't explain things in a way that makes sense to you. Respect my feelings and what I share.

### LETTER FROM PATIENT

### Patient Letter: I was treated like royalty

Dear MUSC Health Care Team,

The following letter was shared with me about a patient's positive experience at MUSC last month. I always enjoy reading these letters and with the patient's permission, I wanted to share with the entire MUSC Health team.

It emphasizes what our patients and families see – the dozens of care team members who contribute to the care we deliver – it takes all of us! It also repeatedly points out an important element that speaks to one of our Imagine MUSC 2020 Goals: Commitment to Patients and Families First.



Huge thank you to the care team members recognized in the letter and all of you for the great work you provide every day.

Those individuals mentioned who were on the patient's care team:

- Pre Op RN: John Johnston
- Anesthesiologist: Dr. Joel Matthew Sirianni
- Attending: Dr. Sunil Patel
- Resident: Dr. Fraser Henderson
- Post Op RN: Tara Swenson
- Additional CTMs not mentioned by name:
- Circulator RN: Katherine Avalli
- Anesthesia Resident: Dr. Ian Osburn
- Anesthesia Tech: Brian Byrne
- Scrub Person (CST): Anna Christ

Dear Dr. Cawley,

I would like to express my sincere appreciate for **every** staff member I encountered yesterday August 15, 2018 when I had lumbar decompression surgery with Dr. Sunil Patel as an out-patient.

From registration, to the lobby lady who guided me to the elevator, to the waiting room prior to surgery, to pre-op, to post-op, I was treated like royalty.

I particularly want to praise my pre-op nurse David for his professional care and easy conversation. Dr. Joel (?) the anesthesiologist who thoroughly explained the whole surgical procedure to me, since I wouldn't know what would be going on, was very considerate about my sensitivity to opioids. He prepared a special "cocktail" of drugs prior to being wheeled into surgery including anti-nausea meds, and he also selected less strong pain meds during surgery. His concern was over and above my expectation. His resident assistant was also very capable.

I haven't words enough to express how capable Dr. Sunil's resident doctor is. (Also, can't remember his name.) Prior to surgery, he gave me one of the most thorough pain exams I've ever had. He carefully plotted my pain nerves. I was so impressed! It gave me such confidence knowing that he knew exactly which nerves were causing me such pain.

My sweet post-op nurse (?) (who is relatively new to the area coming from NY, with two young girls and her husband works for the State Department) never left my side. She checked my vitals, gave me pain meds, and told me I wouldn't remember our conversation. The only thing I forgot was her name!

David was the gentleman who wheeled me to my car. What a caring individual! He thanked ME for allowing him to wheel me to my car.

Also, when phoning to make an appointment, the staff is so courteous!

I have had surgeries at three other hospitals, and my experience at MUSC far outweighs any other I've experienced. I just wanted to share my complements with you!

Thank you!

A Grateful Patient

### WELCOME TO THE DEPARTMENT



Please welcome Grace Johnston, MSNA, CRNA, to the Department! Previously, Grace worked in private practice for four and a half years, specializing in adult cardiac and vascular anesthesia. She received her BSN from MUSC in 2009 and continued her graduate clinical practice at MUHA specializing in neuroscience intensive care. Grace received her MSNA from MUSC in 2013. She is an active member of the South Carolina Association of Nurse Anesthetists and the American Association of Nurse Anesthetists. Grace lives in Mt. Pleasant with her husband and 14-month-old baby boy. She enjoys boating, football, and traveling.

Derek Martindale, MSNA, CRNA, has recently joined the Department, coming to us from the Lone Star State. He practiced at the University of Texas Health Science Center, San Antonio and ambulatory centers in the area since 2014. Derek participated in all surgical cases, including labor and delivery. Captain Martindale is a 15-year veteran in the Air Force, serving four years of active duty and is currently in the Reserves as a flight nurse. Derek is a two-time graduate of MUSC, earning a BSN in 2009 from the College of Nursing and a MSNA from the College of Health Professions in 2014. Derek resides in Mt. Pleasant with his wife and four children.



### NEW BABIES IN THE DEPARTMENT



Congratulations to Brittany and Justin Benson as they welcome Ryan William! Ryan was born on July 7, 2018, weighing 6 lbs. 10oz.





Congratulations to Edward Calhoun and family as they welcome Edward Dudley Colhoun VI, going by Ward! Ward was born on Sept. 23, 2018, weighing 8 lbs. 4oz. at 22 inches long.



### THE WINNER OF THE CHILI COOK-OFF FOR THE AHA HEART WALK!



### **GRAND ROUNDS FOR THE MONTH OF OCTOBER**



"What to Do After a Nerve Block Injury?" October 2, 2018 David Hardman, MD, Professor Department of Anesthesiology University of North Carolina School of Medicine

"Subspecialty Team Meetings" October 9, 2018 Division Chiefs Dept. of Anesthesia & Perioperative Medicine Medical University of South Carolina





"Topic TBA" October 16, 2018 Lecture by Department Fellows Dept. of Anesthesia & Perioperative Medicine Medical University of South Carolina

"Morbidity & Mortality Conference" October 23, 2018 Ryan Gunselman, MD, Associate Professor George Guldan, MD, Associate Professor Dept. of Anesthesia & Perioperative Medicine Medical University of South Carolina







"Topic TBA" October 30, 2018 Jason Taylor, MD, Assistant Professor Dept. of Anesthesia & Perioperative Medicine Medical University of South Carolina

### PAGE 17

SLEEPY TIMES



DEPARTMENT OF ANESTHESIA AND PERIOPERATIVE MEDICINE

> Email: fisherja@musc.edu Phone: 843-792-7503 Fax: 843-792-9314

CHECK OUT OUR WEBSITE AT: http://www.musc.edu/anesthesia

### **Future Events/Lectures**

### Intern Lecture Series

PAGE 18

October 4th—Peripheral Vascular Disease, Dr. Heine, SEI 314

October 18th—Acute Oliguria, Dr. Sabbagh, SEI 314

### CA 1 Lecture Series

October 3rd—Spinal, Epidural, and Caudal Blocks, Dr. Gunselman, CSB 429

October 10th—Respiratory Physiology: The Effects of Anesthesia, Dr. Britell, CSB 429

October 24th—Anesthesia for Patients with Respiratory Disease, Dr. Eastman, CSB 429

<u>CA 2/3 Lecture Series</u> October 1st—Visiting Professor Lecture, All Residents, Dr. Hardman (UNC), CSB 429

October 8th—Career Planning, All Residents, Dr. Sabbagh, CSB 429

October 15th—Update on Lower Extremity Blocks, Dr. Bolin, Moodle

October 22nd—Acute Pain Management in the Opioid Dependent Patient, Dr. Gunselman, Moodle

October 29th—Advanced Regional Anesthesia Techniques, Fellows, Moodle

### **Grand Rounds**

October 2nd—Visiting Professor Lecture, Dr. Hardman (UNC)

October 9th—Subspecialty Team Meetings, Division Chiefs

October 16th-TBA, Fellows

October 23rd—Morbidity & Mortality Conference, Drs. Gunselman & Guldan

October 30th-TBA, Dr. Taylor



### 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 be turned in to Kim Pompey. Thank you!

Jodi Weber, CRNA—provided preoperative workup on my patients for the next day in ERCP. The workups were beyond compulsory. They facilitated my day.





Holiday Party 2018 Saturday, December 1, 2018 Carolina Yacht Club



### Imagine 2020 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 November edition will be October 19, 2018.