

# FANNP NEWS



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PRESENTATIONS • BRING IT ON • LETTER FROM THE PRESIDENT •  
POCKET NOTEBOOK • BRAG BOARD AND MORE...

The Publication of the Florida Association of Neonatal Nurse Practitioners



## Conference Update

Hi Everyone! It's your friendly Conference Program Coordinator reporting on our upcoming October Conference, which just happens to be our 30th ANNIVERSARY!!!! We have a great line up this year in both the Advanced and Review Tracks, and have been hard at work putting everything together. We are limiting registration this year to keep everything smooth and more personal, so be sure to get your conference registrations in as soon as you can! Conference registration via [www.fannp.org](http://www.fannp.org) is now open, and the brochures will be getting postmarked soon as well. We will be having



SEE "CONFERENCE" on page 8

## Surgical Emergency at a Community Hospital: Congenital Diaphragmatic Hernia

*Submitted by Heidi Fisher, BSN, RNC-NIC*

**Background:** Congenital diaphragmatic hernia (CDH) is a defect in the closing of the diaphragm during the embryologic phase of development. Herniation of abdominal viscera into the fetal chest impairs development of the diaphragm, lung and pulmonary vascular bed leading to varying degrees of pulmonary hypoplasia and pulmonary hypertension. The incidence of CDH is one in 2000-3000 live births. Prenatal diagnosis is optimal and allows for counseling and delivery planning at a tertiary center.

**Purpose:** To provide education on the identification, stabilization, and transport considerations of infants with CDH delivered at community-based hospitals.

**Methods:** A comprehensive literature review of evidence-based research about congenital diaphragmatic hernia was conducted using PubMed (2012 to 2018), CINAHL (2012-2018), and Google Scholar (2012-2018) computerized databases. Search inclusion criteria included: congenital diaphragmatic hernia, etiology, embryology, management,

treatment, lifespan implications and the pre- and postnatal management. Publication dates were limited to 5 years and the search was confined to the English language.

**Results:** Prenatal diagnosis permits timely parental counseling, education, and multidisciplinary pre-delivery planning. However, approximately 30-50% of all cases of CDH are not identified prenatally. These infants may deliver at community hospitals, devoid of immediate subspecialty assistance. Classic physical findings, which should increase the clinician's index of suspicion for CDH include a scaphoid abdomen, unilateral bowel sounds, decreased breath sounds, and displacement of the point of maximal cardiac impulse (PMI), indicating a mediastinal shift. Timely inclusion of CDH on a differential diagnoses list, is essential, to encourage transfer of care to a tertiary medical center. Diagnosis is confirmed by KUB showing visceral contents in the thoracic cavity. For community-based advanced practice providers, endotracheal intubation, as opposed to bag-valve-mask ventilation,

SEE "HERNIA" on page 4

# Summer

## Letter from the President

Hello FANNP Members!

Summer is upon us as many of you are completing your MSN programs and studying diligently for your board certification examination.

Congratulations to those that have completed your degree and passed the certification exam!

I can confirm that particularly in the beginning of my career as an NNP, the FANNP Symposium was helpful to me in studying for my board exam, as well as continuing to develop my knowledge. As

professionals, we have a responsibility to be lifelong learners. Mary Catherine Bateson stated, "we are not what we know, but what we are willing to learn". To that end, registration for the 30th National Neonatal Nurse Practitioner Symposium: Clinical Update and Review has opened!! We anticipate that enrollment will fill up quickly, so make plans to join us for our biggest conference to date for a time of greater learning, celebration and relaxation; we have much to celebrate! FANNP was founded in 1989, so we are planning



an '80s theme for the beach party this year. Locate your leg warmers & hair scrunchies and plan to join us October 15th-19th!

Additionally, there are a few other important dates to place in your calendar. If you are planning to submit an abstract for poster presentation at the conference, the submission deadline is July 15. Nominations for the Kim Nolan Spirit Award are due July 1. Applications for an FANNP scholarship

are due by September 15. And lastly, applications for grant funds are accepted any time throughout the year. You can find additional information about these opportunities on the website. FANNP has been helping NNPs shine since 1989 and we are here to support you in your professional endeavors.

Have a great summer and we will see you in October!

*Tiffany Gwartney, DNP, ARNP, NNP-BC  
President, FANNP*



## WANTED: FANNP Scholarship Applicants

Need money while going to school? Apply for a scholarship today!

FANNP as an organization is committed to educational advancement and is proud to be able to award scholarships to nurses and NNPs continuing their educational pursuits in the field of neonatal health care.

Scholarships are awarded yearly at the FANNP Symposium. The scholarship recipients give back and provide a short article, case study, practice pointer, evidenced-based practice update or literature review which is published in the FANNP Membership Newsletter.

FANNP members pursuing a degree in neonatal health care are encouraged to apply. Scholarship monies can be used for tuition, books or any expenses incurred while in school.

To obtain an application or for questions, please contact FANNP via email at: [scholarships@fannp.org](mailto:scholarships@fannp.org).

**Submission Deadline: September 15, 2019**

**Shout out to all students... FANNP has scholarship monies available.**

**Shout out to all mentors... Encourage a student you know to apply for a scholarship.**

### THE FLORIDA ASSOCIATION OF NEONATAL NURSE PRACTITIONERS

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# Brag Board

We have a lot to brag about in FANNP this quarter!

Congratulations are in order for **Dr. Leslie Parker**, who was awarded Faculty Advising/Mentor of the Year for the University of Florida.

Department Chair and Associate Professor Ann Horgas, notes that Parker “engages students in her research, facilitates their

‘ownership’ of their research projects and builds effective research teams. She truly partners with the students to guide them, while at the same time holding them to high standards of personal responsibility and productivity...Dr. Parker is highly respected in our College for her expertise and commitment to the students.”

Additionally, Dr. Leslie Parker’s article, “Effect of Enteral Intake in Extremely Preterm Infants: A Randomized Clinical Trial” has been published in The Journal of the American Medical Association (JAMA)! This is a huge honor! Thank you for all of your work, Dr. Parker!

A shout out to **Colleen Moss**

who received the DNP Outstanding Student Award at The University of Tennessee, Chattanooga!!!! Way to go, Colleen!

Colleen also



has a published manuscript in Neonatal Network May/June 2019 Edition on mentoring new graduate NNPs! We are so glad you are a part of FANNP!

Congratulations also to **Dr. Terri Marin** on her acceptance into the Neonatal Kidney Collaborative (NKC). She is the first nurse practitioner to sit on this prestigious research partnership! The Neonatal Kidney Collaborative is an alliance of neonatologists and

pediatric nephrologists dedicated to improving outcomes in neonates at risk for acute kidney injury. The NKC is currently involved in

several multi-center studies, with the overall purpose of improving the lives of babies worldwide by providing meaningful education, and enabling providers with effective therapies for newborns at risk for kidney disease. Way to go Dr. Marin!

Let’s also brag on **Dr. Paula Timoney**, Clinical Associate Professor in the Graduate Nursing Department.

Paula was presented the DNP Faculty Certificate of Appreciation for Outstanding Teaching & Service by the DNP Graduates at Stony Brook University School of Nursing Convocation on May 22, 2019. Dr. Timoney mentored five DNP students



in developing and implementing their evidence-based practice projects over the past two years. Awesome work Dr. Timoney!

Do you have a colleague, mentor, or student that you’d like to recognize for the Brag Board section of the newsletter? Or maybe you’re the one doing some amazing work in the neonatal realm! Brag about it! Please email [newsletter@fannp.org](mailto:newsletter@fannp.org) to share these accomplishments.



## Calling for Research Proposals...

### FANNP Grants Available

Each year FANNP sets aside funds for the support of research projects. Applications for funding are reviewed by the Research Committee. The Research Committee makes recommendations to the Board of Directors on proposals received. Members of the Research Committee are appointed by the Board of Directors. The grant application period is rolling—there is no deadline for grant submission. Grants will be awarded within six weeks following submission, based on the Research committee and BOD decision.

Please visit [www.fannp.org](http://www.fannp.org) for more details.



## HERNIA from page 1

Evidence-based management strategies focus upon intubation with gentle ventilation strategies, close hemodynamic monitoring in addition to initiating transport to a tertiary center. Surgical correction involves placing visceral contents back into the abdominal cavity then a patch repair of the diaphragm. Even with surgical correction, lifespan implications include pulmonary disease relative to pre-existing pulmonary hypoplasia, reflux, oral aversion, sensorineural hearing loss (SNHL) and musculoskeletal abnormalities, as well as cognitive, language, growth and motor developmental delays.

**Limitations:** This project is a review of the literature and not an original research.

**Implications for practice:** Early identification of patients with CDH can have a lifesaving impact on a neonates' morbidity and mortality risk. Recognition, stabilization and transport to a tertiary center are key components to survival. It is important for nurses at community hospitals to develop and maintain technical skill, so that resuscitation measures are successful and not delayed. Regular simulation training with manikins that allow practice with peripheral intravenous catheter (PIV) insertion and gastric suction setup.

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*\*Abstracts for poster and podium presentations are submitted to the FANNP Planning Committee by FANNP members seeking to share their expertise on a topic pertinent to neonatology. This abstract was submitted to FANNP for use with the author's permission.*



## LEGISLATIVE UPDATE

*Submitted by Ally Kayton, MSN, APRN,  
NNP-BC*

### 2019 FLORIDA LEGISLATIVE SESSION FINAL REPORT

The 2019 Legislative Session ended on Saturday, May 4th, and by all accounts it was a very successful first Session for Governor DeSantis. Of his top priorities, he received a bill to sign on smokable medical marijuana, and more than the \$625 million to spend to clean up the water in Florida. In addition, he received money he requested for Hurricane Michael recovery. Gov. DeSantis also flexed some muscle behind the scenes and got the Legislature to agree to fund \$40 million for the Job Growth Grant Fund and \$50 million for Visit Florida. All in all, the Governor was pleased with how 2019 turned out and now it's up to him to determine which bills and budget items he keeps and which he vetoes.

The rest of the Cabinet also fared well. Attorney General Ashley Moody received funding to increase the fight on the opioid epidemic and also got a bill passed that would allow lawyers in her office to access information in the prescription drug database to prevent "doctor shopping." CFO Jimmy Patronis got one of the bills near and dear to him passed that states that local

government cover firefighters that contract cancer in the line of duty. Finally, Agriculture Commissioner Nikki Fried got a key piece of legislation that she wanted allowing farmers in Florida to grow hemp.

Speaker

Jose Oliva

came into his first speakership with a laundry list of priorities. The first was a full repeal of the Certificate of Need process for healthcare facilities. He got a compromise repeal of CON that included hospitals and tertiary services. Another priority passed was moving the threshold for passing constitutional amendments to two-thirds. The House also pushed forward the School Safety Act, including more access to mental health as well as the "guardian" program allowing teachers to be armed. Also, the school choice program was expanded to give more options to parents.

It was a very busy session, though not a lot of Legislation made it to the finish line. With 2019 not being an election year, committee meetings will start in September. The 2020 Legislative Session will start on Tuesday, January 14.

### FLORIDA'S MAJOR LEGISLATIVE ISSUES:

One of the major pieces of legislation that passed was HB 375 regarding the Prescription Drug Monitoring Program by Rep. Cary Pigman. This bill exempts prescribers and dispensers from the requirement to consult the PDMP prior to prescribing or dispensing a controlled substance to a patient who has been admitted to

hospice. The bill also authorizes the Department of Health to enter into reciprocal agreements to share PDMP data with the U.S. Department of Veterans Affairs, the U.S. Department of Defense, and the federal Indian Health Service. Currently, practitioners employed by these entities may view Florida PDMP data; without a reciprocal agreement, Florida practitioners are not authorized to view PDMP data maintained by the entities. Under current law, DOH may authorize the PDMP database to interface with electronic health recordkeeping systems that are maintained by health care providers. The bill defines "electronic health record keeping system," to clarify the types of software applications that may access the system.

The Scope of Practice bills (SB 972 by Sen. Brandes and HB 821 by Rep. Pigman), which would have allowed advanced practice nurses to practice independently from a physician, have both died. HB 821 did pass the House by a 75-37 vote; however, the Senate never took it up for a vote. SB 972 was never heard in committee.

### FEDERAL LEGISLATION

After the longest government shutdown in U.S. history the government has re-opened and Congress is back to work. Among the many pieces of legislation that have been introduced for consideration this year, there are a handful that should be of particular interest to health care professionals working with moms and babies.

**The Modernizing Obstetric Medicine Standards or "MOMS" Act, introduced by Sen. Kristen Gillibrand (D-NY).** This act seeks to provide \$5,000,000 a year from 2020-24 to the Maternal and Child Health Bureau of the Health Resources and Services Administration (HRSA) to study, develop, and initiate best

## LEGISLATIVE from page 5

practices that would improve the quality and safety of maternity care across the continuum. The end goal would be to decrease the high levels of maternal mortality and morbidity in the United States.

**Rep. David P. Joyce (R-OH-14) has introduced H.R. 383, Continuing Coverage for Preexisting Conditions Act of 2019**, which, if passed, would maintain the Patient Protection and Affordable Care Act's particular requirement that people could not be denied insurance coverage because of their pre-existing conditions. This is significant for many of our moms seeking prenatal care who have pre-existing conditions such as diabetes, as well as important to many of our babies who will grow up with chronic illnesses.

Another bill that would adversely affect access to prenatal care, especially for low-income women, is H.R. 369 Defund Planned Parenthood Act of 2019 as introduced by Representative Vicky Hartzler (R-MO-4).

**The Nationally Enhancing the Wellbeing of Babies through Outreach and Research Now or "NEWBORN" Act, introduced by Rep. Steve Cohen (D-TN-9)**. This would provide HRSA with \$10,000,000 each year from 2020-24 to target areas in the United States with the highest rates of infant mortality (city or rural). HRSA would then work with local agencies already in place to fund outreach, education, and treatment programs aimed at decreasing the infant mortality rate in these areas. This systems approach includes efforts to prevent preterm labor, enhance maternal health and address family needs, (including mental health, substance abuse, housing, domestic violence, smoking cessation, access to health care, etc.), as well as education and support for parents on how to care for babies and keep them safe and healthy. This

program would also require HRSA to track information on the success of the programs utilized so that in 2024, health agencies will have a better idea where to focus their efforts across the entire country to further decrease our high rate of infant mortality.

**The Mothers and Offspring Mortality and Morbidity Awareness (MOMMA) Act, introduced by Representative Kelly (D-IL)**, overall aims to improve federal efforts in preventing maternal mortality. Within the United States about 700 women die due to pregnancy related complications while another 65,000 suffer near-fatal complications. The United States continues to have a high maternal mortality rate when compared to other countries; it is believed that as many as half of these are preventable. There are also significant racial disparities with Black women dying of maternal-related deaths at three to four times that of non-Hispanic White women; specifically, there are 12.7 death per 100,000 live births for White women, 14.4 deaths per 100,000 live births for women of other ethnicities, and an alarming 43.5 deaths per 100,00 live birth for Black women.

The MOMMA act will address these alarming issues through developing policies to improve data collection, disseminate information on effective interventions, and expand health care and social service access for postpartum women. The MOMMA act would also extend Medicaid, CHIP, and WIC coverage for pregnant and postpartum women from 60 days to 1 year. Finally, this legislation aims to address cultural competency and implicit bias (attitudes or stereotypes that affect our understanding, actions and decisions in an unconscious manner) through education.

H.R. 728: Title VIII Nursing Workforce Reauthorization Act of 2019, introduced by Representatives Joyce (R-OH), Gabbard (D-HI), Davis (R-IL),

Bonamici (D-OR), Matsui (D-CA), Castor (D-FL), McKinley (R-WV), and Underwood (D-IL) on January 23rd, 2019, the purpose of the bill is to amend Title VIII of the Public Health Service Act, extending through Fiscal Year 2024. Specific programs focus on nurse retention, recruitment, education (through advanced education), and faculty preparation.

The new bill proposes amendments to several sections to include:

- An annual report on the nursing workforce programs to be submitted by the Secretary. The purpose of the report is to assess the Department of Health and Human Services' programs and activities to improve the nursing workforce. The report will identify to what extent the programs are meeting their goals.
- Recognition for all advance practice nursing roles with newest addition of clinical nurse specialists; adding the CNS to the current group of nurse practitioners, certified registered nurse anesthetists and certified nurse-midwives.
- Further funding for increasing nursing workforce diversity, giving grants to increase opportunities for students with minority backgrounds.
- Promote a career ladder through supporting career advancement through rewarding grants to promote specialty training as well as baccalaureate and graduate prepared nursing education, among other supportive measures.
- Adds Nurse Managed Health Clinics to list of eligible entities in the definition section.

<https://www.congress.gov/bill/115th-congress/house-bill/5977/text>

<https://www.congress.gov/bill/116th-congress/house-bill/728/text>



# Food for Thought

## The Importance of Mentoring New NNPs

Colleen Moss, a current FANNP member and DNP student at the University of Tennessee, Chattanooga, in conjunction with Joanie Jackson, DNP, have recently been published in *Neonatal Network* for their integrative review entitled, "Mentoring New Graduate Nurse Practitioners". This work is exceedingly important for many reasons, notably due to a significant shortage of NNPs in the U.S.

While the merits of mentoring have been previously shown in various fields of study, including nursing, it is only more recently that studies have focused on nurse practitioners transitioning from the role of bedside nurse. However, these studies are few and limited in nature. This time of transition can be particularly challenging, and it is imperative for new graduate nurse practitioners to garner support from their colleagues through mentorship.

*Mentoring is defined as "a nurturing process in which a more skilled or more experienced person... teaches, sponsors, encourages, counsels and befriends a less-skilled or less-experienced person for the purpose of promoting the latter's professional and/or personal development."* (Moss & Jackson, 2019, p. 152).

Studies have shown that mentorship within the NNP community, especially in the context of a formalized mentoring program, promotes many positive outcomes for both mentor and mentee, including, but not limited to the following:

- Increased job satisfaction
- Increase in quality of patient care
- Increase in productivity and improved skills
- Vested interest in nursing profession
- Increase in RN recruitment to the NNP role

- Higher earning potential
- Increased leadership roles and professional development
- Improved confidence and sense of empowerment
- Increased length of time in the profession

Additionally, there are many barriers to effective mentorship, including the following:

- Time constraints
- Lack of training programs for mentors
- Limited number of qualified mentors and preceptors
- Heavy patient caseload
- Lack of defined role expectations (1)

Formalized mentorship programs are essential to the future prosperity of the NNP profession. NANNP has composed a Mentoring Toolkit for Nurse Practitioners, which, according to NANN "presents the evidence, provides the rationale, and delivers the tools needed to establish a formal, structured mentoring program for new nurse practitioners". (2) According to Moss and Jackson (2019), "A challenge exists for NNPs, as implementation of a formalized mentoring program requires dedicated time and resources for mentor training. Further research is warranted to validate the use of the NANNP tool kit in the establishment and evaluation of a formalized mentoring program for NNPs." (p. 158). (1)

### References:

- (1) Moss, C., & Jackson, J. (2019). Mentoring new graduate nurse practitioners. *Neonatal Network*, 38(3), 151-159.
- (2) Retrieved from <http://apps.nann.org/store/product-details?productId=45788720>



## The Kim Nolan Spirit Award

### ...In memory and honor of Kim Nolan

Do you know a special NNP? The Kim Nolan Spirit Award is given annually to a NNP who exemplifies Kim's exuberance and "can-do" attitude in service to profession, community, and/or family. To read more about Kim, and to nominate someone today, visit [award@fannp.org](mailto:award@fannp.org).

Recipients of the Kim Nolan Spirit Award receive the following:

- Complimentary conference registration and accommodations (1 year) for the NNP Symposium in October;
- One year waiver of FANNP dues;
- Recognition in the newsletter and on the website;
- Certificate suitable for framing;
- Lladro porcelain figurine, "Angel with child"
- Beautiful bouquet of flowers

**Nominations due July 1, 2019**



**FANNP**

## FANNP Beach Party

*FANNP is Celebrating  
30 Years! Helping NNPs  
Shine Since 1989!*

LET'S CELEBRATE 80s style at this year's FANNP Beach Party!!! It's hard to believe, but FANNP has been around for 3 decades! Come dressed in your own 80's style...remember the fashion of the bold neon colors, spandex, high-waisted jeans, leg warmers, banana clips, converse shoes, and the memorable but haunting "big hair"? Whether or not you choose to dress the part, there will be delicious food, great entertainment for dancing, and plenty of laugh-out-loud fun! Plan on spending time with



classmates, reuniting with old friends, getting to know new ones, or having a night out with your family. A great time is sure to be had by all, and the view of the sunset beach side is absolutely spectacular. Register now to confirm your ticket! See you there... like, totally.

## CONFERENCE from page 1

celebrations to mark this great 30-year legacy, including our Beach Party celebrating the history of FANNP with the theme "What were you wearing in 1989??" Should be much fun! Don't forget the Welcome Reception to network and see old and new friends, and the Poster Session Cocktail Hour, in addition. See you there!

*Mary Kraus, MSN, NNP-BC  
Conference Chair  
Florida Association of Neonatal Nurse  
Practitioners*

The Florida Association Of  
Neonatal Nurse Practitioners'  
30th National

NEONATAL NURSE PRACTITIONER  
SYMPOSIUM

CLINICAL UPDATE AND REVIEW OCT. 15-19

"The only review course  
for NNPs, by NNPs"

Clearwater Beach  
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"Helping NNPs shine since 1989"



## BRING IT ON ANSWERS Questions on page 12

- 1) B- Late fetal heart rate decelerations are caused by decreased blood flow to the placenta and can signify an impending fetal acidemia.
- 2) C- Breathing becomes more regular during non-REM sleep. It is much more variable during REM sleep states.
- 3) B- Athrogyposis refers to congenital contractures of two or more joints. It may be caused by any condition that restricts in utero fetal movement. Approximately 1 in 3000 is born with arthrogyposis.

## FANNP Dates to Remember

<i>Event/Item</i>	<i>Date/Deadline of Event/Item</i>
FANNP Grant.....	Ongoing
Poster Presentation Abstracts .....	July 15
Kim Nolan Spirit Award.....	July 1
FANNP Scholarship .....	Sept. 15
National Neonatal Nurses Day.....	Sept. 15
Annual National Neonatal Nurse Practitioner Symposium: Clinical Update and Review* .....	Oct. 15-19, 2019
Nurse Practitioner Week* .....	Nov. 10-16, 2019

*\*Dates change annually*

### FANNP Newsletter Submission Calendar

Edition	Article Submission Deadline	Publish Date
Spring 2019	02/08/19	03/09/19
Summer 2019	05/10/19	06/08/19
Fall 2019	08/09/19	09/07/19
Winter 2019	11/08/19	12/07/19

In addition to the core components of the newsletter, we would love to hear what you have to say! Please send in anything you would like to see added to the newsletter, whether it is an interesting article, a hot topic in the neonatal world, or even a shout out regarding a fellow FANNP member who is doing awesome things! We want to hear from you! Please submit following the above guidelines to [newsletter@fannp.org](mailto:newsletter@fannp.org).  
 \*\*Interested in helping with the editing of the newsletter?? Please email the above link!\*

## POCKET NOTEBOOK

*Diane McNerney DNP, NNP-BC*

### Zavanelli Maneuver

**1. Definition** - In cases of severe shoulder dystocia the Zavanelli Maneuver may be performed. It is an obstetric maneuver, which involves pushing the delivered fetal head back into the birth canal in anticipation of performing a cesarean section.

The Zavanelli maneuver is performed only after other maneuvers have failed and should never be attempted if a nuchal cord previously has been clamped and cut.

**2. Management** - If the procedure is successful an emergent cesarean section is performed. The neonatal team should prepare for a neonatal mega code. Additional personnel will be needed to assist with the resuscitation and stabilization of the neonate. It is important to obtain the cord blood gas results and evaluate the neurological status of the infant.

**3. Post resuscitative care** - the Zavanelli Maneuver is associated with high risk to both the mother and the fetus. Many neonates experience severe perinatal hypoxia that may result in brain damage and/or death. Most infants require respiratory and cardiovascular support. The infant also needs to be evaluated for thermal cooling and neurological follow up.

**4. Prognosis** - These infants are at high risk for Erb's palsy, seizures and permanent neurological damage, and will need long-term neurological follow-up.

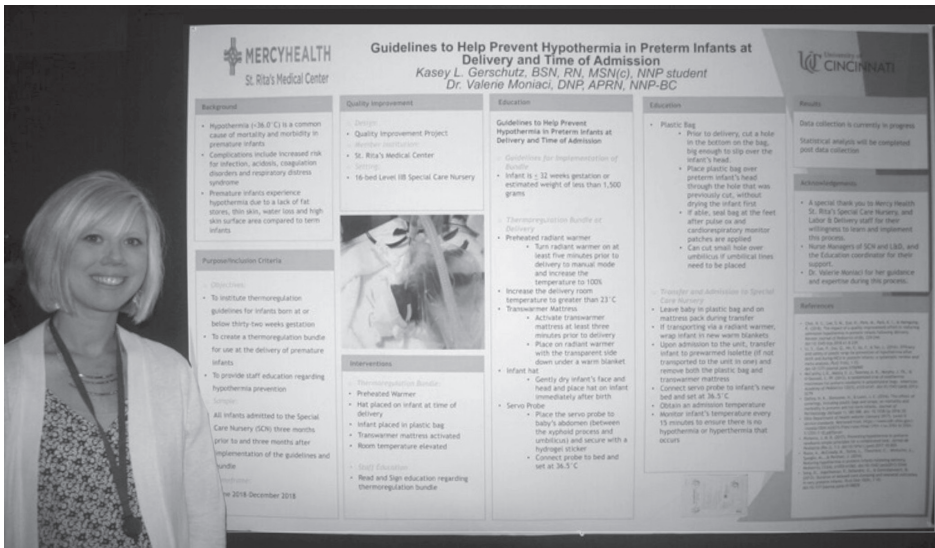
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## FANNP's National Neonatal Nurse Practitioner Symposium: Clinical Update and Review, 2019

# POSTER & PODIUM PRESENTATION CALL FOR SUBMISSIONS

**SUBMISSION DEADLINE:  
July 15, 2019**

FANNP is seeking abstracts for posters and podium presentations for the annual FANNP's National Neonatal Nurse Practitioner Symposium on October 15th-19th, 2019. The planning committee invites submissions by members and non-members and participation is open to health professionals whose specialty has a focus on the Neonatal Population (this includes but is not limited to NNPs, RNs, Clinical Nurse Specialists, & Neonatologists). We invite colleagues to share their expertise in one of the following categories:

- Original Research
- Innovations in Practice or Education
- Patient Safety
- Quality Improvement and Benchmarking Initiatives
- Case Studies

**MORE INFORMATION IS AVAILABLE NOW AT [FANNP.ORG](http://FANNP.ORG)**

## EDUCATIONAL OFFERINGS

5th International Neonatology  
Association Conference (INAC)  
July 12-14, 2019  
Hotel Real Inn  
Tijuana, Mexico  
[www.worldneonatology.com/2019](http://www.worldneonatology.com/2019)

Fall 2019 National Advanced  
Practice Neonatal Nurses Conference  
September 12-14, 2019  
Caribe Royale  
Orlando, FL  
[www.academyonline.org](http://www.academyonline.org)

NANN 35th Annual Conference  
October 9-12, 2019  
The Westin Savannah Harbor  
Savannah, GA  
[www.nann.org](http://www.nann.org)

The 30th FANNP Neonatal Nurse  
Practitioners Symposium: Clinical  
Update and Review  
October 15-19, 2019  
Sheraton Sand Key Resort  
Clearwater Beach, FL  
[www.fannp.org](http://www.fannp.org)



MUSC Neonatal Pharmacology  
Conference  
November 13-15, 2019  
Francis Drake Hotel  
Charleston, SC  
[www.education.musc.edu](http://www.education.musc.edu)

Hot Topics Neonatology Conference  
December 8-11, 2019  
Gaylord National  
National Harbor, Maryland  
[www.hottopicsinneonatology.org](http://www.hottopicsinneonatology.org)





Stay informed and keep us posted! Get the latest news and updates from FANNP, including valuable conference information at [www.fannp.org](http://www.fannp.org).

In addition, don't forget to join us on Facebook and follow us on Twitter and Instagram @FANNPorg and be sure to let us know when you PASS YOUR BOARDS!!



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Bring it On...



**Practice Questions  
to Prepare  
for the NNP  
Certification Exam**

- 1) Late fetal heart rate decelerations are due to:
  - A. Cord compression
  - B. Uteroplacental insufficiency
  - C. Fetal immaturity
  
- 2) Which of the following statements on the relationship between sleep state and breathing patterns is not true?
  - A. Periodic breathing occurs during both REM and non-REM sleep states
  - B. Ventilator responses are decreased during sleep
  - C. Breathing becomes more regular during REM sleep
  
- 3) Which of the following statements pertaining to arthrogyrosis is not true?
  - A. The term arthrogyrosis refers to congenital contractures of two or more joints
  - B. Muscular abnormalities are the most common cause of congenital contractures
  - C. Any condition that restricts fetal movement in utero may cause arthrogyrosis

Answers on page 9

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