Pediatric News
An electronic newsletter from the Department of Pediatrics

May 2014

Spotlight: Neonatology

This edition of the UNMC Pediatric Newsletter focuses on the Division of Neonatology. The following articles focus on the group that operates at UNMC and CUMC and the other that is primarily at Children's Hospital & Medical Center.

Joint Division of Neonatology (UNMC & CUMC)

The faculty from the Joint Division of Newborn Medicine is committed to the provision of excellent clinical care to the patients and families we serve. Clinical coverage and Medical Direction of Newborn care is provided at The Nebraska Medical Center; Alegent-Creighton Health: Creighton University, Bergan Mercy Medical Center, Lakeside Medical Center, and Immanuel Hospital; and at Bellevue Medical Center. Please see below for individual services provided at each facility. We are participants in the Vermont Oxford Network, and work constantly on quality improvement projects to ensure that our patients provided cutting edge medical care.

Education is a top priority for our faculty, as can be seen by the volume of students taught, the services provided by our faculty, and the teaching awards and evaluations for the division. We are responsible for teaching medical students at all levels from the University of Nebraska Medical Center and Creighton University Medical Center, residents from the Pediatrics, Medicine-Pediatrics, and three Family Practice programs in Omaha, and a range of other students. Neonatal Nurse Practitioner (NNP) students are given didactic lectures and perform their clinical hours in our units. Additionally, nutrition interns, nursing students, and pharmacy students and residents study in our NICU. Several education programs have been developed for these groups including a monthly neonatal resuscitation simulation lab and an online Blackboard course covering the basics of Neonatology.

Research is critical to our academic mission as a division and we are pleased to have national and international recognition for our work in

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Research Forum

Upcoming Events

May 1 | 5:00 PM
Clinical Service Chiefs & Division Chiefs
CHMC Board Room

May 15 | 4:00 PM
Pediatric Research Forum
CHMC Glow Aud.

May 19 | 12:00 PM
Writing Group
UNMC UT 7412

May 22 | 7:00 AM
Faculty Meeting
UNMC PDR

Journal Club*
May 14 | 12:00 PM
neonatal nutrition. This work has led to international collaborations with Queen's College in Canada, and a working relationship with Harvard University. We make an effort to include students and residents in all of our research endeavors. Part of ensuring a strong academic program is to offer students opportunities to engage in research prior to making choices about their career path. We have worked with several students and residents who have indicated a strong interest in academic medicine after their research or quality improvement project experience.

In order to remain a strong academic unit, we also serve our Universities and Hospitals by performing numerous administrative duties. Our division includes Department Chairs, medical directors, clerkship directors, members of admissions committees, and promotion and tenure committees. We take very seriously our administrative positions and work together to strengthen the medical and education communities which we serve.

Additionally, service to community is important to our division. Our faculty members serve or have served on the boards of the March of Dimes, The Ronald McDonald House, and Madonna School among many other community organizations. This service to community is a valued part of our professional lives.

Joint Division Faculty & Staff

L-R: Garth Fletcher, David Bolam, Terry Zach, John Schmidt, Hal Kaftan, and Ann Anderson Berry

Ann Anderson Berry, M.D. - Associate Professor, Pediatrics; Medical Director of the NICU and Newborn Nurseries at The Nebraska Medical Center and Bellevue Medical Center; Medical Director ECMO and Head

M. England
Patient Mgmt Conf*
May 6 | 8:00 AM
E. Bendlin

May 13 | 8:00 AM
D. Velasco

May 20 | 8:00 AM
S. Hardy

May 27 | 8:00 AM
J. Attebury

*Journal Club and Patient Mgmt Conf is teleconferenced from CHMC Glow Aud. to UNMC UT 7412

Grand Rounds
A complete schedule for the month is located at www.unmc.edu/Pediatrics

Contact Us
Gary Beck, Ph.D.
gbeck@unmc.edu
402-559-7351

Newsletter Back Issues
Previous issues are available on the UNMC Pediatrics website (Link).

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Cooling for HIE; newly elected Member Society for Pediatric Research. Dr. Anderson Berry will graduate in December 2014 with her PhD in Medical Nutrition. Research areas of interest include nutrition of the VLBW infant, vitamin D metabolism in the preterm and term infant, vitamin D status of the obese adolescent, vitamin D in maternal populations and its effects on neonatal outcomes, and infection in the preterm infant. She is active in medical student and resident education and runs the newborn resuscitation simulation education program for students and residents as well as the NICU rotations for the M3 and M4 students.

David L. Bolam, M.D. - Associate Professor, Pediatrics; Distinguished Physician at The Nebraska Medical Center; National Expert on Coding and Billing, with past leadership roles in the AAP Section of Perinatology Coding Committee.

Garth E. Fletcher, M.D. - Assistant Professor, Pediatrics; UNMC Admissions Committee; M1, M2 ICE Faculty

Harold Kaftan, M.D. - Assistant Professor, Pediatrics, Medical Director of TNMC's NICU Transport Team, Medical Director NICU Creighton University; Active in Medical Student Education for the M1 and M2 students at Creighton University

Richard F. Olney, M.D. - Assistant Professor, Pediatrics; Active in Medical Student and Resident Education in Newborn Medicine

John W. Schmidt, M.D., MPH - Assistant Professor, Pediatrics; Clerkship Director of Pediatrics Creighton University; Research interests in Education and Medical Leadership

Terence L. Zach, M.D. - Professor, Pediatrics, Chair of Pediatrics Creighton University, Medical Director NICU at Bergan Mercy Medical Center and Lakeside Medical Center; Dr. Zach is active in medical student and resident education

Administrative Staff
Joy Higgins, M.S.; Pediatric Clerkship Administrator
Jane Reeves

UNMC/CUMC Scholarly Activities

Selected Publications - Published with Students or Residents NNP Staff: Alegent-Creighton Health

Book Chapters

1. 'Parenteral Nutrition Additive Shortages: The Short-Term, Long-Term and Potential Epigenetic Implications in Premature and Hospitalized Infants '. In: Clinical and Translational Nutrition: The Interface Between Metabolism, Diet, and Disease to be published early in 2014 by Apple Academic Press, part of Taylor & Francis. C. Hanson, M. Theone, A. Anderson Berry

2. 'Shortages of Parenteral Nutrition Components in Critical Care Patients" In: Diet and Nutrition in Critical Care, Springer Publishing, April 2014. C. Hanson, M. Theone, A. Anderson Berry
**Peer Reviewed Articles**


2. Vitamin D Supplementation Practices in Breastfed Infants in Outpatient Pediatric Clinics. Saathoff, M; Hanson, C; Anderson-Berry, A; Lyden, E; Fernandez, F. *Journal of Infant, Childhood, and Adolescent Nutrition*. Volume 6 Issue 2, April 2014 pp 122-126

3. Vitamin D Status and Associations with Risk Factors for Cardiovascular Disease and Diabetes in Children Enrolled in a Medical Weight Management Program. C. Hanson, A. Anderson Berry, C. Fernandez. *Journal of Infant, Childhood, and Adolescent Nutrition*. Accepted March 2014

4. Considerations in Meeting Protein Needs of the Human Milk Fed Preterm Infant, Julie Wagner, RD, LMNT, CNSC, Corrine Hanson, RD, PhD, Ann Anderson-Berry, MD, *Advances in Neonatal Care Practice*


UNMC/CUMC Patient Care Locations

The Nebraska Medical Center - NICU: The NICU at TNMC is a 38 bed single family room NICU in the Hixson-Lied Center for Clinical Excellence building. We are a Level IV NICU providing care for ill preterm and term newborns including medical and surgical care, post anesthesia care, selective heading cooling, cranial and cerebral function monitoring. We have a dedicated neonatal ECMO program that originated in 1987. The longest standing neonatal transport team is based out of TNMC's NICU, and is able to provide ground or helicopter transportation to critically ill infants from around the region, including Nitric Oxide transportation.

There are two dedicated operating rooms within the NICU. TNMC is able to provide a full complement of perinatal services and Level IV NICU for our patients.

Consultation with all pediatric subspecialties is provided in the TNMC NICU. Patients are cared for by an extensive team of professionals led by a neonatologist that includes: Residents, NNPs, Lead Nurses, specially trained bedside RNs, NICU Pharmacists, a Neonatal Dietician, Pediatric Respiratory Therapists, NICU Case Manager, a NICU Feeding and Developmental Care Specialist, Certified Lactation Consultants, Speech Therapists, Music Therapist, NICU social worker, and Pediatric Occupational and Physical Therapists. Additional support to the unit is provided by our Nurse Manager, Associate Nurse Manager, Clinical Nurse Specialist, and Pediatric Clinical Quality Coordinator. Pastoral care is provided by the pastoral care team at TNMC, and a March of Dimes Family Support Specialist. Prenatal counseling and consultation for patients with High Risk Pregnancies are provided by four high-risk Perinatologists who serve clinics in Omaha, Grand Island, Kearney and Hastings.

Bellevue Medical Center - NICU: Level II NICU care is provided at Bellevue Medical Center with NNP presence in house 24/7. Lactation support is available as well as Pediatric Echocardiography. Infants are cared for in a dedicated NICU space with direct access to the TNMC NICU if necessary.

Alegent Creighton Health (ACH) - Bergan, CUMC, & Lakeside NICUs:
The NICU at ACH Bergan Mercy Medical Center is a 32 room/36 bed single family room Level III NICU. We provide care for ill preterm and term newborns including Selective Head Cooling for HIE. Consultation with pediatric subspecialties is available and MFM services are provided on site. Patients are cared for by an extensive team of professionals led by a neonatologist and including NNP's, lead RN's, specially trained bedside RN's, NICU pharmacists, a neonatal dietician, NICU nurse navigator, Speech therapists, NICU social worker, and Pediatric Occupational and Physical Therapy. Additional support to the unit is provided by our acting Nurse Manager, Cari Reimers, a Clinical Nurse Specialist, and a large team of Certified Lactation Specialists. Bergan also offers a palliative care program led by Nancy Kadavy, APRN and Dr. John Schmidt. Care management and pastoral care services are available as well. Multidisciplinary academic teaching rounds take place each day include the NICU team as well as medical students, pediatric residents and a CUMC faculty pharmacist and students. A new SIM lab has been implemented which provides hands on simulation experience of both obstetric and neonatal emergency situations for employees and students in the new Academic Medical Center in conjunction with Creighton University Medical Center.

The NICU at ACH Creighton University Medical Center is a 21 bed Level III NICU. We provide care for ill preterm and term newborns as well Selective Head Cooling for HIE. Patients are cared for by a multidisciplinary team led by a neonatologist, including NNP's, lead RN's, specially trained bedside RN's, pharmacists, and neonatal dieticians. MFM services are provided on site as well.

NICU care is provided at ACH Lakeside's 8 bed Level II NICU with NNP presence in house 24/7. Lactation support is available as well as Pediatric Echocardiography. Infants are cared for in a dedicated NICU space with direct access to ACH's level III NICU's if needed.

All of the ACH NICU's participate in the VON database and actively promote clinical practice changes that demonstrate best practices and excellent patient outcomes.

**UNMC/CUMC Nursing Staff**

**NNP Staff:** The Nebraska Medical Center and Bellevue Medical Center: The Neonatal Nurse Practitioner Team is composed of 23 members that provide 24/7 coverage at one Level IV and one Level II NICUs in the metro area. They also provide coverage for the newborn nurseries within the TNMC system.

- Julie Sundermeier DNP, APRN - C Lead NNP
- Tanna Anderson
- Laura Dugick
- Brenda Ferris
- Joanne Frankenfield
- Paige Hardy
- Beth Kimpson
- Nadia Kinney
- Gloria Kisicki
- Susan Knutson
- Rhonda Muchmore
NNP Staff: ACH: The Neonatal Nurse Practitioner Team is composed of 29 members that provide 24/7 coverage at two Level III and one Level II NICUs in the metro area. They also provide on call coverage at 2 NB nurseries within the ACH system. There are several NNP students currently in the graduate program at CUMC that will be rotating through the ACH NICU over the next couple of years.

- Cindy Schmid - Lead NNP
- Melissa Balhorn
- Deborah Bjorman
- Mari Boulas
- Kelsey Brozek
- Rachel Butler
- Megan Falke
- Jennifer Friend
- Erin Johnson
- Nancy Kadawy
- Kathy King
- Elizabeth Kothenbeutel
- Sarah Lowe
- Donna Myers
- Debra Parker
- Melissa Svoboda
- Amy Sytsma
- Brenda Wallingford
- Tina Wallingford
- Valori Zobel
- Janet Dutcher
- Beth Kimpson
- Sue Knutson
- Rhonda Muchmore
- Sarah Newman
- Rebecca Rakowicz
- Lori Rubarth
- Jenny Solano
- Julie Sundermeier

Division of Neonatology (Children's)

Children's Hospital NICU is a 46 bed Level IV NICU with NNP led transport capability by fixed wing, ground and helicopter. There is comprehensive surgical and cardiothoracic subspecialty support including VV and VA
ECMO. The Fetal Care Center was opened in 2013 to allow deliveries of high risk neonates on site and for coordination of prenatal consultation and counseling. There are surgical suites for this purpose within the NICU and postpartum beds for mom adjacent to the NICU.

Lynne Willett acts as Medical Director for the NICU and Clinical Service Chief at Children's. Average daily census is 28. Annual admissions are 400-500 yearly.

**Children's Faculty & Staff**

**Faculty**

- **Lynne D. Willett, M.D.** - Professor of Pediatrics; Medical Director for the NICU and Clinical Service Chief at Children's Hospital & Medical Center
- **Nicole D. Birge, M.D.** - Assistant Professor of Pediatrics; Staff Neonatologist.
- **John H. Grebe, M.D., MHA** - Assistant Professor of Pediatrics; Staff Neonatologist. He also has a masters in Healthcare Administration; working on certified financial planner (CFP). He is on the perinatal coding committee for the AAP.
- **Bonnie J. Lees, M.D.** - Assistant Professor of Pediatrics; staff Neonatologist.
- **John W. Sparks, M.D.** - Chair & Stokes-Shackelford Professor, Professor of Pediatrics and Staff Neonatologist.
- **Howard Needelman, M.D.** - Assistant Professor of Pediatrics; Director of NICU Follow-Up Clinic; Developmental Care Specialist.

They can be reached at 402-955-6140.

**NICU Patient Care Manager**

- **Donnetta Perkins, RN, BSN, PMP, CNML.** Donnetta can be reached at 402-955-6158. She has worked at Children's Hospital & Medical Center for 34 years in various roles in the hospital starting in NICU as an NNP. She has also worked in the PICU, Nursing Administration, & Construction Management returning to the NICU in August of 2013. Donnetta managed the Transport Team and developed the pediatric team; managed and implemented the Infusion Center; and is certified as a project management professional and as a Certified Nurse Manager and Leader.

**Neonatal Nurse Practitioners**

- Mari Boulas
- Kami Cappello
- Mackenzie Denich
- Beth Ehrhardt
- Jennifer Friend
- Kim Goracke
- Paige Hardy
- Cori Kerr
We also have two interns that will start this spring. They are Crista Latimer and Chelsey Phalen. The NNPs can be reached at 402-955-8065.

**Clinical Education Specialist**

- Jessica Fitzgerald, MSN, RN, CCRN. She can be reached at 402-955-6517.

**Developmental Care Specialist**

- Chelli Westengaard, OTR/L, NTMTC. She can be reached at 402-955-6128.

**NICU Dedicated Social Worker**

- LeAnna Johnston, LCSW, MPA. She can be reached at 402-955-6151.

**NICU Case Management**

- Joan Batenhorst, BSN RN ACM CPN. She can be reached at 955-8051.
- Kim Janes, BSN RN CPN. She can be reached at 402-955-7925.

**NICU Chaplain**

- Julia Knezetic, MMIN. She can be reached at 402-955-5661.

**Bedside RN Staff**

- We have 75 bedside nurses. 80% of them are RNC certified; 79% of them are BSN prepared.

**NICU Supervisory Charge Nurse**

- We have four CNCs on the unit. They are Laura Branstetter, Donna Lentsch, Kelly Noren and Crista Latimer. They can be reached at 402-955-8075.

**Support Staff**

- Christine Nelson is the Administrative Assistant for the physicians, patient care manager and NNPs. She can be reached at 402-955-6140.

**Children's Programs**

- CHND Database - A data network for outcomes and quality improvement involving 53 Children's Hospitals.
- Childrens Hospital Association Solutions for Patient Safety
- Pediatric Hospital Information System
- Pediatric Analysis and Comparison Tool
- National Database for Nursing Quality Initiatives
- Congenital Diaphragmatic Hernia DHREAMS (Diaphragmatic Hernia Research & Exploration, Advancing Molecular Science) Trial
- Hirschprung's National registry
- STS Congenital Heart Surgery Database
- Congenital Heart Surgeons Society data Center
- NPC-QC
- CCISC
- NSQIP Peds
- Extra Corporeal Life Support Organization and Database

**Palliative Care Program**: Andrew Macfadyen, Director, 402-955-5428

**Fetal Care Center and Delivery Program**: Mindy Rathe-Hart APRN, WHNP, Maternal-Fetal Medicine Coordinator, Phone 402-955-3030, Pager 402-888-8296

**Certified Breast Milk Depot and Donor Milk Program**: Tammi Martin RN, BSN, IBCLC 402-955-6152

**Additional Children's Initiatives**


**Current Multi-Institutional Quality Initiatives**

- STEPP-IN - A Quality initiative to review handoff practices and communication with surgery and anesthesia for neonatal surgical patients and to evaluate and improve euthermia perioperatively in neonates - CHND Network.

**Current Research Projects**

- Accuracy of transducers for evaluation of Central Venous Pressures by Umbilical Venous Catheter in the NICU
- Accurate placement of nasogastric catheters in the NICU

**NICU Follow Up Clinic**: Dr. Howard Needelman, Program Director

- Munroe-Meyer location: 402-559-4985; Clinics Monday and Thursday AM
- Children's location: 402-955-4178; Clinics Monday and Thursday PM

**Congratulations!**

- **William Rizzo, M.D.**, was recognized on April 21, 2014 with one of the UNMC Distinguished Scientist Awards.
- **Stephen Obaro, MBBS, Ph.D.**, received a UNMC New Investigator Award.
• **Phyllis Warkentin, M.D.**, received the 2014 American Society of Blood and Marrow Transplant (ASBMT) Public Service Award in February. Dr. Warkentin is the first member of ASBMT to receive the award, which recognizes support and efforts on behalf of cancer patients and medical research.

• Two Pediatric Research Grants were awarded recently:
  - PI: **Shivani Patel, M.D.**
  - Title: Right atrial pressure in normal neonatal and pediatric subjects
  - PI: **Andrea Talukdar, M.D.** and **Kristina Rauser-Folz, M.D.**
  - Title: Knowledge and skill retention for intraosseous needle insertion by primary care residents

• **Joy Higgins, M.S.**, completed requirements for the AAMC Central Group on Educational Affairs Clerkship Administrator Certificate Program. This program requires completion of educational scholarship that is presented at a regional or national meeting. Her poster will be at the Pediatric Research Forum in May.

• **Marilyn Van Gestel, R.N.**, in the Division of Infectious Diseases, received a 2014 Positive Image of Nursing Award from the Nebraska Nurses Association.

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**Pediatric Research Forum**

**Thursday, May 15th**
4:30-5:30pm

- Invited Speaker, Jessica Snowden, M.D.
  "Physicians in Research (or how I learned to stop worrying and love the mouse)"  Children's Hospital & Medical Center, Glow Auditorium

5:30-6:30pm

- Poster Session/Reception - Children's Hospital & Medical Center, Hospital Atrium

**Friday, May 16th**
7:30-9:30am

- Poster Session/Breakfast - Children's Hospital & Medical Center, Hospital Atrium

8:00-8:30am

- Pediatric Grand Rounds
  Presenter: Leslie Ruybal, M.D., HO-II  Children's Hospital & Medical Center, Glow Auditorium

8:30-9:00am

- Student Teaching Awards  Children's Hospital & Medical Center, Glow Auditorium