

# Millennium Neonatology: Building a Better Pathway for Preemies

Saturday, November 16, 2019  
8 a.m. to 5 p.m.

Women & Infants Hospital  
Malcolm and Elizabeth Chace Education Center  
101 Dudley Street, Providence, RI

**Women & Infants**  
A MEMBER OF CARE NEW ENGLAND





## About Women & Infants South Pavilion

In September 2009, Women & Infants opened the South Pavilion with The Carter Family Neonatal Intensive Care Unit, a new 80-bed, single-family room NICU, The Malcolm and Elizabeth Chace Education Center, and a state-of-the-art antenatal care unit. Since then, many centers have opened single-family room NICU's. Longitudinal prospective studies of the impact of this innovative model of care on developmental outcomes published in *Pediatrics* in 2014 and in the *Journal of Pediatrics* in 2016 demonstrated significant improvement in neurodevelopmental outcome in graduates of our single-family-room NICU. These improvements were mediated by increased maternal involvement in care afforded by the single-family room setting. Follow up after two years demonstrated these effects were sustained. It was noteworthy that there was also a demonstrable effect of maternal involvement in care in our open bay NICU. However, the effect was substantially greater in the single-family-room NICU and was attributable to increased maternal care, skin-to-skin care and visitation.

In concurrent studies, we also showed that the model of care and patient characteristics were significantly associated with alterations in epigenetic effects on the glucocorticoid receptor in low birth weight infants. Since report of these studies, extensive literature has emerged on the importance of the environment of care and clinical context for long-term developmental outcome. Environmental factors have emerged as critical underpinnings of epigenetics. While we have made substantial progress in the prevention and treatment of complications of prematurity, there is increasing recognition of the interplay between major organ system disorders and abnormal developmental outcome. The complex interplay of physiology, metabolism, and organ system function that all have measurable and lasting effects of developmental outcome lead to the question: How DO WE build a better pathway for preemies?



## Conference description

This symposium will bring together experts in the fields of neurodevelopment, lung biology, environment of care and neuroimaging. We will be exploring ways to leverage the partition between nature and nurture. We will examine the care of these children in the postnatal environment and post-hospitalization to prevent continuing illnesses, hospitalizations, and unrealized developmental potential.

Capping off the 10th anniversary celebration of our Carter Family Neonatal Intensive Care Unit (NICU) will be a story of one of our NICU babies and his incredible connection to the creator of the Disney-Pixar movie, *Finding Nemo*.

## Learning objectives

1. Explain the biological, genetic, and epigenetic mechanisms underlying the long-term effects on neurobehavioral pathways and developmental outcomes.
2. Describe the strategies for an optimal neurodevelopmental environment and assessment of neurodevelopmental potential.
3. Identify the ways to maximize care in the NICU and during early discharge in order to avoid continuing morbidities, hospitalizations, and to optimize developmental potential.

## Nursing breakout session

### Single Family Room Model, 10 Years Later: A Nurses View

Please join us for a panel discussion with nurses who moved with the unit 10 years ago. Neonatal nursing is at the heart of the successful impact of the single-family-room NICU on developmental outcome. A model utilizing family-centered care, communication and a welcoming environment that partners families and staff contributes significantly to measurable developmental improvements. Learn about their perspective of the single-family-room style NICU and what they have learned over the years.

Registration required. No additional fee.

## Target audience

Neonatologists	Pediatricians	Psychologists
Developmental Specialists	Perinatologists	Obstetricians
Neonatal Nurses	Neonatal Nurse Practitioners	Respiratory Therapists
Residents	Fellows	Clinical Educators
Nurse Midwives	Social Workers	Nursing/Medical Students
Occupational Therapists	Physical Therapists	Nutritionists

*All health care professionals responsible for Perinatal and Neonatal Care*

## CME accreditation

Women & Infants Hospital is accredited by the Rhode Island Medical Society to sponsor continuing medical education for physicians.

## Designation statement

Women & Infants Hospital designates this live activity for a maximum of 5.75 *AMA PRA Category 1 Credits™*. Physicians should claim only credit commensurate with the extent of their participation in the activity.

## Nursing continuing education credit

This activity has been submitted to the American Nurses Association Massachusetts for approval to award contact hours. ANA Massachusetts is accredited as an approver of continuing nursing education by the American Nurses Credentialing Center's Commission on Accreditation. For more information regarding contact hours, please call Emily Brequet, (401) 274-1122, ext. 44520.

## NICU tours

There will be tours of The Carter Family Neonatal Intensive Care Unit by our own staff with ample opportunity for questions and answers. Sign-up at registration.

## Program

8-8:30 a.m. **Registration, continental breakfast & NICU tour sign-up**  
Upon arrival, please check in at the registration table to pick up your name badge and sign-up for a NICU tour. A continental breakfast will be available.

8:30-8:45 a.m. **Opening Remarks**  
James F. Padbury, MD  
William and Mary Oh – William and Elsa Zopfi Professor of Pediatrics for Perinatal Research  
The Warren Alpert Medical School of Brown University  
Pediatrician-in-Chief, Women & Infants Hospital

8:45-9:30 a.m. **Making Better Preterm Babies**  
Alan H. Jobe MD, PhD  
Professor of Pediatrics/Neonatology  
Cincinnati Children's Hospital

9:30-10:15 a.m. **The Importance of the Placenta in Programming Children's Health**  
Carmen J. Marsit, PhD  
Professor of Department of Environmental Health  
Emory University Rollins School of Public Health

10:15-10:30 a.m. **Break & NICU Tours**

10:30-11:15 a.m. **Cartesian Dualism in the NICU - Is the End in Sight?**  
Robert D. White, MD  
Director, Regional Newborn Program  
Beacon Children's Hospital

11:15-12 p.m. **The Developing Human Connectome**  
David Edwards, DSc, FMedSc  
Professor of Paediatrics and Neonatal Medicine  
Director, Institute for Women's and Children's Health  
King's College London and Evelina London Children's Hospital

12-1:15 p.m. **Lunch & NICU Tours**

12:15-12:45 p.m. **Nursing Panel Discussion – Lunch and Learn Single Family Room Model, Before & After: A Nurses View** *Registration required*  
Facilitator: Kathleen Hawes, PhD, RN  
Psychiatric Clinical Nurse Specialist  
Clinical Assistant Professor of Pediatrics  
Warren Alpert Medical School of Brown University

1:15-2 p.m. **Neonatal Neurobehavior: A Window into the Future?**  
Elisabeth C. McGowan, MD  
Assistant Professor of Pediatrics  
Warren Alpert Medical School of Brown University

2-2:45 p.m. **Neonatal Abstinence and the Importance of Family-Centered Care**  
Adam J. Czynski, DO  
Assistant Professor of Pediatrics (Clinical)  
Warren Alpert Medical School of Brown University

2:45-3 p.m. **Break & Tours**

3-3:45 p.m. **Parents and Play in the NICU: Critical Ingredients for Successful Outcomes**  
Betty R. Vohr, MD  
Professor of Pediatrics  
Warren Alpert Medical School of Brown University

3:45-3:50 p.m. **Just Keep Swimming**  
Discover what the creator of *Finding Nemo* and a baby from Rhode Island have in common.

3:50-4 p.m. **Closing remarks**  
Evaluations  
CME/Contact Hour Certificates

4 p.m. **Reception**

## General information

The conference will be held in the Malcolm and Elizabeth Chace Education Center of Women & Infants Hospital. For additional information, please visit [womenandinfants.org/millennium](http://womenandinfants.org/millennium).

### Hotel accommodations

Hampton Inn & Suites Providence Downtown  
58 Weybosset Street, Providence, RI 02903  
(401) 608-3515

A special meeting rate of \$149/night, single or double occupancy has been arranged. Room rates are quoted exclusive of applicable state and local taxes.

Group Name: Millennium Neonatology: Building a Better Pathway for Premies

Group Code: WIF

[https://hamptoninn.hilton.com/en/hp/groups/personalized/P/PVDWYHX-WIF-20191114/index.jhtml?WT.mc\\_id=POG](https://hamptoninn.hilton.com/en/hp/groups/personalized/P/PVDWYHX-WIF-20191114/index.jhtml?WT.mc_id=POG)

The Hampton Inn & Suites Providence Downtown is located 1.3 miles (7 minutes) from the hospital and provides valet parking at a rate of \$28.00 per night.

### Conference parking

Parking will be available on site in Lot W-4 on Dudley Street, event parking signage will be at the lot entrance.

### Registration information

**Online or Brochure Form.** Conference fee includes attendance at the conference, participant syllabus, continental breakfast, lunch, afternoon break, and reception.

No at the door registrations.

**Cancellation Policy:** A fee of \$10.00 will be assessed if cancellation notice is received by Thursday, October 31, 2019. A fee of \$25.00 will be charged if cancellation notice is received November 1 through November 15, 2019. No-shows are responsible for full registration fee; however, substitutions are welcome without penalty. Please provide substitution information prior to the meeting.

**Methods of Payment:** Personal checks or money orders. Please make checks payable to Women & Infants Hospital. Visa, MasterCard or Discover are also accepted. Sorry, no American Express.

**For More Information:** Please visit our website at [womenandinfants.org/millennium](http://womenandinfants.org/millennium) or contact Mary Tucker at [mtucker@wihri.org](mailto:mtucker@wihri.org)/(401) 274-1122 x 47405 or Brenda Vecchio at [bvecchio@wihri.org](mailto:bvecchio@wihri.org)/(401) 274-1122 x 47404.

## Registration form

### Millennium Neonatology: Building a Better Pathway for Premies

Register and pay on line at [womenandinfants.org/millennium](http://womenandinfants.org/millennium).

Name \_\_\_\_\_

Position/Title \_\_\_\_\_

Affiliation \_\_\_\_\_

Address \_\_\_\_\_

City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_

Telephone \_\_\_\_\_ Email Address \_\_\_\_\_

**Registration fee** (includes conference attendance, participant syllabus, continental breakfast, lunch, afternoon break and reception)

Limited Seating to 150 participants

Please check appropriate options

\$99 for physicians  \$89 for nurses  waived for fellows, residents and students

### Nursing Breakout Session – Lunch and Learn

Yes, register me for the Nursing Breakout Session

Please check box for dietary restrictions. Specify restriction:

Please check box if you require special assistance. Specify assistance:

Payment must accompany your registration form:

1. Check or Money Order – made payable to:

**Women & Infants Hospital**

2. Credit card information – check one  Visa  Mastercard  Discover

Card Holder Name \_\_\_\_\_

Mailing Address, if different from above \_\_\_\_\_

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For Office Use:

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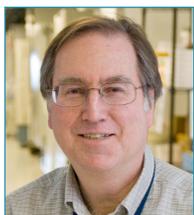
## Presenter biographies



**Adam J. Czynski, DO** is medical director of the Mother Baby Unit and oversees the Newborn Nursery and the Family Care Unit. Dr. Czynski and his team have developed a service line that cares specifically for this patient population. The service line utilizes a multidisciplinary team to treat the infant while preserving the mother-infant bond.



**David Edwards, DSc, FMedSc** is chair of Pediatrics and Neonatal Medicine at Kings College London. He and his colleagues have developed a bench to bedside research strategy to investigate the mechanisms of perinatal brain injury, and have developed treatment for birth asphyxia and hypothermic neural rescue therapy.



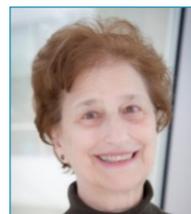
**Alan H. Jobe, MD, PhD** is one of the foremost leaders in neonatal pulmonary medicine and lung biology. He pioneered the development of natural surfactants. He has contributed to our understanding of the effects of antecedents in the intrauterine environment on developmental outcome.



**Carmen J. Marsit, PhD** is an authority on placental biology, the effect of antenatal intrauterine environment on the placental genome and epigenome and its association with developmental outcomes.



**Elisabeth C. McGowan, MD** is associate director of the Neonatal Follow-Up Clinic, conducting research at both the clinic as well as the Brown Center for the Study of Children at Risk. Her areas of interest include infant neurobehavior and long term neurodevelopmental outcomes, in the context of maximizing family health and support.



**Betty R. Vohr, MD** has been the director of the Neonatal Follow-Up Clinic at Women & Infants Hospital/Alpert Medical School of Brown University since 1974 and Coordinator for the NICHD Neonatal Research Network Follow-up Studies from 1993 - 2017. Her primary clinical and research interests focus on improving the long-term outcomes of high-risk premature infants and infants with hearing loss.



**Robert D. White, MD** is a pioneer in the concept of single-family-room NICU's. He has led international forums and discussions on single-family-room NICU from Gravens to around the world. He is one of the foremost advocates for incorporation of families and to the intensive care unit.

## Nursing panel facilitator biography



**Katheleen Hawes, PhD, RN** provides clinical services in the Neonatal Intensive Care Unit and at the Perinatal and Postpartum Clinic at the Center for Children and Families at Women & Infants Hospital, where she treats women and their partners experiencing perinatal mood and anxiety issues.

## NICU Symposium Planning Committee

Joseph Bliss, MD, PhD	Betsey Mottershead	Marybeth Taub, MSN, RN
Emily Breguet, MSN, RN	Susan Mouradian	Mary Tucker
Lincoln Cox	James Padbury, MD	Brenda Vecchio
Abbot Laptook, MD	Christine Rockwell	Betty Vohr, MD
Elisabeth McGowan, MD	Barbara Stonestreet, MD	Pamela Watts

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Professorship in Pediatrics and Perinatal Research  
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