



COLUMBIA UNIVERSITY

*College of Physicians
and Surgeons*

 **NewYork-Presbyterian** **Kids**
Morgan Stanley Children's Hospital

28th Annual Course

Jen-Tien Wung Respiratory Care of the Newborn: A Practical Approach

Saturday & Sunday, October 13 & 14, 2018



Course Directors

**Jen-Tien Wung, M.D., F.C.C.M. &
Rakesh Sahni, M.D.**

Program Committee

Maria Cristina Brooks, M.N., R.N.C.-N.I.C.
Josefina A. Macaubas, R.R.T., M.P.A.
Cheryl A. O'Herron, R.N., M.S.N., M.P.A., N.E.A.-B.C.
Maria Schiaratura, M.S., N.N.P.
Svetlana Streltsova, R.N., M.S.N., C.N.E., C.C.R.N.
Ma. Nelia Tacloban, B.S.N., R.N.-C.N.I. &
Sylvia Villaraza, M.S.N., R.N.C.-N.I.C.

Guest Faculty

Satyanarayana Lakshminrusimha, M.D., *Dennis and Nancy Marks Endowed Chair in Pediatrics Professor, Department of Pediatrics; Pediatrician-in-Chief, UC Davis Children's Hospital, Sacramento, California*

Foong-Yen Lim, M.D., *Associate Professor of Surgery; Surgical Director, Cincinnati Fetal Center, Cincinnati Children's Hospital Medical Center, Cincinnati, Ohio*

Guilherme Sant'Anna, M.D., Ph.D., *Associate Professor of Pediatrics, Montreal Children's Hospital, McGill University Health Center, Montreal, Canada*

Columbia University Irving Medical Center Faculty & New York-Presbyterian Hospital Staff

Maria Cristina Brooks, M.N., R.N.C.-N.I.C., Neonatal Intensive Care Unit

Ganga Krishnamurthy, M.B.B.S., *Garrett Isaac Neubauer Associate Professor of Pediatrics at CUMC; Director, Neonatal Cardiac Care*

Usha S. Krishnan, M.D., D.M., FAHA, *Associate Professor of Pediatrics at CUMC; Associate Director, Pulmonary Hypertension Center*

Yakov Kushnir, R.R.T., *Staff Respiratory Therapist*

Tina A. Leone, M.D., *Associate Professor of Pediatrics at CUMC; Director, Neonatal-Perinatal Fellowship Training Program*

Rakesh Sahni, M.D., *Professor of Pediatrics at CUMC; Medical Director, Neonatal Intensive Care Unit*

Maria Schiaratura, M.S., N.N.P., Neonatal Intensive Care Unit

Ma. Nelia Tacloban, B.S.N., R.N.-C.N.I., Neonatal Intensive Care Unit

Vadim S. Ten, M.D., Ph.D., *Associate Professor of Pediatrics at CUMC*

Sylvia Villaraza, M.S.N., R.N.C.-N.I.C., *NICU Nursing Educator*

Jen-Tien Wung, M.D., F.C.C.M., *Professor of Pediatrics at CUMC*



October 13, 2018

7:15 a.m.	<i>Registration; Exhibits; Continental Breakfast</i>
8:00 a.m.	Welcome Rakesh Sahni, M.D.
8:05 a.m.	Nuts and Bolts of Bubble Nasal CPAP Jen-Tien Wung, M.D., F.C.C.M.
9:00 a.m.	Strategies for CPAP Success: Nursing Perspective Sylvia Villaraza, M.S.N., R.N.C.-N.I.C.
9:30 a.m.	Non-Invasive Respiratory Support: Do We Really Need to Intubate? Guilherme Sant'Anna, M.D., Ph.D.
10:30 a.m.	<i>Refreshment Break; Exhibits</i>
11:00 a.m.	Neonatal Ventilation 101, NAVA Jen-Tien Wung, M.D., F.C.C.M.
12:00 p.m.	Emerging Strategies for the Prevention of BPD Vadim S. Ten, M.D., Ph.D.
12:45 p.m.	<i>Buffet Lunch, Exhibits, Tours of the NICU, Neonatal Pearls, Videotape Viewing, Q & A</i>
2:45 p.m.	RDS and Surfactant Therapy: Past, Present and Future Rakesh Sahni, M.D.
3:45 p.m.	The Cyanotic Newborn: Could It Be the Heart? Ganga Krishnamurthy, M.B.B.S.
4:45 p.m.	High Frequency Ventilation (HFO, HFJV) Jen-Tien Wung, M.D., F.C.C.M.
5:30 p.m.	<i>Adjourn</i>

October 14, 2018

7:30 a.m.	<i>Registration; Exhibits; Continental Breakfast</i>
8:00 a.m.	Fetal Surgery and EXIT Procedure Foong-Yen Lim, M.D.
9:00 a.m.	Management of Acute PPHN: What Can the Fetus Teach Us? Satyanarayna Lakshminrusimha, M.D.
10:00 a.m.	One Lung Ventilation: When and How? Jen-Tien Wung, M.D., F.C.C.M.
10:30 a.m.	<i>Refreshment Break; Exhibits</i>
11:00 a.m.	Pulmonary Hypertension in Infants with Chronic Lung Disease Usha Krishnan, M.D., D.M., FAHA
12:00 p.m.	The Future of Neonatal Resuscitation Tina A. Leone, M.D.
12:45 p.m.	<i>Buffet Lunch, Exhibits, Tours of the NICU, Neonatal Pearls, Videotape Viewing, Q & A</i>
2:45 p.m.	Innovations in Monitoring during Neonatal Intensive Care Rakesh Sahni, M.D.

3:45 p.m.

Simulation Workshops and Hands-on Practice Sessions:

1. Bubble Nasal CPAP Application
2. Video Laryngoscopy for Tracheal Intubation
3. Nasal Endotracheal Intubation and Fixation

Yakov Kushnir, R.R.T.,

Rakesh Sahni, M.D.,

Maria Schiaratura, M.S., N.N.P.

Ma. Nelia Tacloban, B.S.N., R.N.-C.N.I. &

Sylvia Villaraza, M.S.N., R.N.C.-N.I.C.

5:30 p.m.

Adjourn

Program Description & Objectives

The use of nasal continuous positive airway pressure (CPAP) as the initial mode of respiratory support in critically ill very low birth weight infants is associated with a lower incidence of chronic lung disease. Evidence also supports the role of nasal CPAP in facilitating weaning from mechanical ventilation and reducing lung injury. However, nasal CPAP success rates are widely variable and may be attributable to how well it is utilized. With recent renewed interest in bubble nasal CPAP, it is essential to evaluate strategies for success that may depend on the using correct CPAP devices, attention to detail and caregiver experience. This unique program will share successful bubble nasal CPAP experience at the Morgan Stanley Children's Hospital of New York, Columbia University Medical Center and discuss rationale, practical aspects and strategies for replicating success with bubble CPAP use. These management protocols have been practiced successfully for more than forty years and have been shown to reduce chronic lung disease without increasing morbidity and mortality.

This two-day course will cover virtually all aspects of neonatal respiratory care, including kinder, gentler mechanical ventilation, patient-triggered ventilation, high frequency ventilation, NAVA, non-invasive modes of respiratory support, one-lung ventilation, surfactant therapy, inhaled nitric oxide therapy, and the use of laryngeal mask airway. Participants will become familiar with the application and pitfalls of bubble nasal prong CPAP therapy and ventilatory strategies in infants with respiratory distress. We will also address strategies for CPAP success from nursing perspective, clinical care of patients with RDS, acute pulmonary hypertension in term and preterm infants, pulmonary hypertension in infants with chronic lung disease, and fetal surgery including EXIT procedure. Advances in neonatal resuscitation, innovations in non-invasive hemodynamic monitoring during neonatal care, screening for congenital heart disease and Pearls in Neonatology will also be discussed. The conference will include didactic presentations as well as simulation sessions with hands-on workshops, NICU tours, videos, and Q & A sessions. An extensive syllabus will be provided in electronic format. At the conclusion of this conference, participants will be able to recognize the rationale for using bubble nasal CPAP, familiarize with practical aspects of effective bubble CPAP use, and identify strategies for replicating and evaluating success with bubble nasal CPAP and other respiratory care practices at their own institutions.

This conference is intended for the entire neonatal critical care team: physicians, nurses, nurse practitioners, respiratory therapists, physician assistants, and other allied health professionals practicing in the neonatal intensive care arena interested in improving respiratory care outcomes in neonates. Attendance by complete physician-nurse-respiratory therapist teams is strongly recommended and encouraged. As hands-on sessions are a significant part of this program the number of participants is limited and therefore, early registration is strongly advised.

Additional Information

Contact: Center for Continuing Medical Education
Columbia University Vagelos College of Physicians & Surgeons
630 West 168th Street, Unit 39
New York, NY 10032
Telephone: (212) 305-3334
Fax: (212) 305-5740
e-mail: cme@columbia.edu
<http://ColumbiaCME.org>

Meeting Location

Vivian and Seymour Milstein Family Heart Center
173 Fort Washington Avenue
New York, New York 10032

Parking is available at the NewYork-Presbyterian/Columbia University Irving Medical Center parking lot, located on the southwest corner of Fort Washington Avenue and West 165th Street.

Hotel Accommodations

A block of rooms has been reserved at the Edge Hotel, at the special rate of \$249 per night, plus state & local taxes. These special room rates are available to the course attendees from October 12 - 14, 2018. Other rates and conditions may apply. Additional information can be obtained by calling the Edge directly.

Reservations must be made directly with the Edge Hotel. To receive this room rate remember to mention that you are a registrant of the Respiratory Care of the Newborn group # RCOTN.

Rooms will be held until August 28, 2018 or until the room block has been exhausted, whichever comes first. Reservations received after the cut-off date are subject to availability and prevailing rates.

Edge Hotel
514 West 168th Street
New York, New York 10032
Group # RCN106

(877) 973-4666
(212) 543-0005
Cut-Off: *August 28, 2018*
Rate: \$249/night

Accreditation Statement

The College of Physicians and Surgeons of Columbia University is accredited by the Accreditation Council for Continuing Medical Education to provide continuing medical education for physicians.

AMA Credit Designation Statement

The College of Physicians and Surgeons designates this live activity for a maximum of 15.0 *AMA PRA Category 1 Credits*™. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

CONTINUING EDUCATION CONTACT HOURS: 13.9 contact hours approved.

New York Presbyterian Nursing Professional Development is an approved provider of continuing nursing education by the New Jersey State Nurses Association, an accredited approver by the American Nurses Credentialing Center's Commission on Accreditation. As a provider of continuing education for nurses we are required to disclose to you that none of the planners or faculty presenting this program is biased in anyway by a relationship with companies outside this institution. If any arise, an announcement will be made at the beginning of this program. There is commercial support for this program.

RESPIRATORY THERAPISTS: This program has been approved for 13.92 contact hours Continuing Respiratory Care Education (CRCE) credit by the American Association for Respiratory Care, 9425 N. MacArthur Blvd. Suite 100, Irving TX 75063 Course #151373000.

Tuition

	Early Bird (Before September 6)	Regular (On or after September 6)
Physicians	\$375	\$425
Fellows & Residents in training	\$225*	\$275*
Other Health Professionals	\$325	\$375
Other Health Professionals (NYPH)	\$75	\$75
Team of 3 or More, Per Person	\$300**	\$350**

* with letter from Program Director certifying status

** Consists of a neonatal team of Physician, Nurse and Respiratory Therapist. To be eligible for discount fee, the entire team must register at the same time and each member must submit a separate registration form.

The tuition fee includes the plenary presentations, workshop sessions, daily continental breakfast, lunch, refreshment breaks and an electronic course syllabus. Confirmation of registration will be sent upon receipt of the registration form.

Refund of registration fee, less a \$25 administrative charge, will be made if written notice of cancellation is received by October 3, 2018. No refunds can be made thereafter.

Registration

Space is Limited. Early Registration is Encouraged.

By Mail:

Complete the registration form and mail with full payment to:

**Columbia University
Vagelos College of Physicians & Surgeons
Center for Continuing Medical Education
630 West 168th Street, Unit 39
New York, NY 10032**

On-Line:

<http://columbiacme.org>

**Telephone registrations and/or
cancellations are not accepted.**

Americans with Disabilities Act

The Columbia University Vagelos College of Physicians and Surgeons fully complies with the legal requirements of the ADA and the rules and regulations thereof. Any participant with special needs must submit a written request to our office at least one month prior to the course date.

Registration Form

COLUMBIA UNIVERSITY

Respiratory Care

(Please print or type)

Last Name		Degree
First Name		Middle Initial
Address		
City	State	Zip
Daytime Phone		Daytime Fax
e-mail		

Please note: Your e-mail address is used for critical information about the course including: registration confirmation, course evaluation and certificate. Please be sure to include an e-mail address you check daily or frequently.

Institution

Pediatrics PM 20
October 13 & 14, 2018
UR010121/15.0

	Early Bird (Before September 6)	Regular (On or after September 6)
Physicians	☐ \$375	☐ \$425
Fellows & Residents in training	☐ \$225	☐ \$275
Other Health Professionals	☐ \$325	☐ \$375
Other Health Professionals (NYPH)	☐ \$75	☐ \$75
Team of 3 or More, Per Person	☐ \$300	☐ \$350

☐ Enclosed is a check or money order made payable to
**Columbia University. Checks must be in U.S. Dollars drawn on
a U.S. bank. Money Orders must be in U.S. Dollars.**

For security purposes, credit card payments cannot be accepted by mail or fax.
Please visit www.columbiacme.org to register and pay by credit card.American
Express, Discover, MasterCard and Visa only.



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630 West 168th Street, Unit 39
New York, New York 10032

Jen-Tien Wung Respiratory Care of the Newborn: A Practical Approach

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presented by

Morgan Stanley Children's Hospital of New York-Presbyterian
Division of Neonatology
and

Columbia University
Vagelos College of Physicians & Surgeons