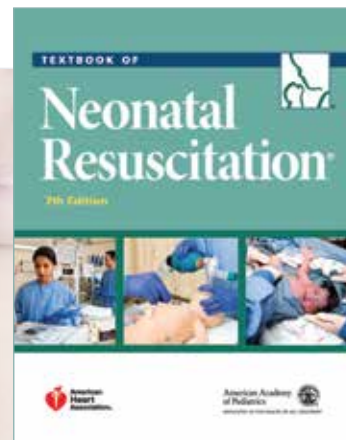


VOL 25 NO 1 SPRING/SUMMER 2016

7th Edition Materials Highlights



The *Textbook of Neonatal Resuscitation*, 7th Edt. incorporates the 2015 American Academy of Pediatrics (AAP) and American Heart Association (AHA) Guidelines for Cardiopulmonary Resuscitation and Emergency Cardiovascular Care. The new guidelines were published last October in *Circulation and Pediatrics*, and are reprinted in the 7th Edt. textbook.

The NRP welcomes a new textbook editor with this edition. John Kattwinkel, MD, FAAP handed over the reins to Gary M. Weiner, MD, FAAP, a former NRP Steering Committee member and member of the Instructor Development Task Force. Dr. Weiner also serves on the International Liaison Committee on Resuscitation (ILCOR).

Updates to the 7th Edt. Textbook

- The new textbook has 11 lessons instead of 9 lessons as a result of content reorganization. “Preparing for Resuscitation” and “Post-resuscitation Care” are topics that were included in the same lesson for the 6th Edt., but are broken out into two lessons in the 7th Edt.
- “Alternative Airways” now precedes “Chest Compressions.” This reflects the recommendation to intubate the newborn before beginning chest compressions.

DR. WEINER STATES, “I WAS EXCITED TO HAVE THE OPPORTUNITY TO EDIT THE NEW EDITION OF THE NRP TEXTBOOK BECAUSE OF THE TREMENDOUS IMPACT THAT SKILLFUL DELIVERY ROOM INTERVENTIONS CAN HAVE ON NEWBORNS, THEIR FAMILIES, AND THE HEALTH CARE PROVIDERS ENTRUSTED WITH THEIR CARE.”

New Features To Enhance Learning

Each lesson includes:

- **Focus on Teamwork:** Examples of NRP Key Behavioral Skills related to lesson content. Learners will notice the increased emphasis on teamwork, preparing for resuscitation, and accurate documentation.
- **Frequently Asked Questions:** Several FAQs based on lesson content that may be controversial or spark questions from learners. For example, “After birth, do all babies need to have their mouth and nose suctioned with a bulb syringe?” and “Why does the NRP use a 3:1 compression-to-ventilation ratio instead of the 15:2 ratio used in other programs?”
- **Ethical Considerations:** Questions to consider in context of lesson content.
- **Additional Reading:** The “editor’s choice” of journal articles related to lesson content.
- **Color Photographs:** New color photos replace most drawings.

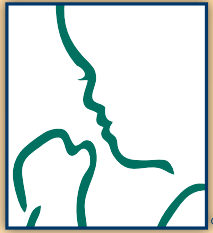
Although the 7th Edt. includes new material and significant changes in practice, the emphasis on establishing effective ventilation remains the same.

The Online Exam

The 7th Edt. NRP exam has a new format.

In the past, the exam included 8 to 10 questions for each lesson. The new exam has 50 questions, which are based on content from all lessons. Not only are there fewer total questions, but the number of questions are proportional to the material covered in the textbook.

continued on page 8



NRP® Acknowledgements

In This Issue

- 1 Summary of NRP® 7th Edition Materials
 - 2 In This Issue/Acknowledgements
 - 3 Making the Transition to NRP 7th Edition
 - 5 Neonatal Resuscitation eBook Collection for Your Institution
 - 6 2016 NRP Current Issues Seminar
 - 8 Lessons of the *Textbook of Neonatal Resuscitation*, 7th Edition
 - 9 Preparing for Resuscitation
 - 10 NRP Learning Management System (LMS) FAQs
 - 12 NRP LMS 7th Edition Glossary
 - 13 Mark Your Calendar With These Important Dates!
 - 14 NRP Research Grants Awarded
- Retirement of the NRP Instructor DVD
- Who Should Attend the Birth of a Meconium-Stained Newborn?
- We'd Like to Hear From You

Statements and opinions expressed in this publication are those of the authors and are not necessarily those of the American Academy of Pediatrics or American Heart Association.

Comments and questions are welcome and should be directed to:

Marya L. Strand, MD, MS, FAAP
Editor, *NRP Instructor Update*
141 Northwest Point Blvd., PO Box 927
Elk Grove Village, IL 60009-0927
aap.org/nrp

© American Academy of Pediatrics/
American Heart Association, 2016

The Neonatal Resuscitation Program® (NRP®) Steering Committee offers the *NRP Instructor Update* to all AAP/AHA NRP Instructors.

Editors

Eric C. Eichenwald, MD, FAAP
Marya L. Strand, MD, MS, FAAP

Associate Editor

Jeanette Zaichkin, RN, MN, NNP-BC
Tacoma, WA

Managing Editors

Rachel Poulin, MPH
Wendy Marie Simon, MA, CAE
Robyn Wheatley, MPH

Contributor

Jeanette Zaichkin, RN, MN, NNP-BC
Tacoma, WA

NRP Steering Committee

Steven Ringer, MD, PhD, FAAP, Cochair
Dartmouth Hitchcock Medical Center
Lebanon, NH

Marilyn Escobedo, MD, FAAP, Cochair
University of Oklahoma
Oklahoma City, OK

Anne Ades, MD, FAAP
The Children's Hospital of Philadelphia
Philadelphia, PA

Eric C. Eichenwald, MD, FAAP
University of Texas-Houston Medical School
Houston, TX

Kimberly D. Ernst, MD, MSMI, FAAP
University of Oklahoma Health Sciences Center
Oklahoma City, OK

Vishal Kapadia, MD, MSCS, FAAP
University of Texas Southwestern Medical Center
Dallas, TX

Henry C. Lee, MD, FAAP
Stanford University
Palo Alto, CA

Marya L. Strand, MD, MS, FAAP
Saint Louis University
St. Louis, MO

NRP Editors

John Kattwinkel, MD, FAAP
Editor Emeritus
University of Virginia
Charlottesville, VA

Gary M. Weiner, MD, FAAP
University of Michigan
Ann Arbor, MI

Jeanette Zaichkin, RN, MN, NNP-BC
Tacoma, WA

NRP Steering Committee Liaisons

John T. Gallagher, MPH, RRT-NPS
American Association for Respiratory Care
Rainbow Babies & Children's Hospital
Cleveland, OH

Arun Gupta, MD, FAAP
AAP Section on Hospital Medicine
Stanford University School of Medicine
Palo Alto, CA

Jessica Illuzzi, MD, MS, FACOG
American College of Obstetricians and Gynecologists
Yale School of Medicine
New Haven, CT

Linda McCarney, MSN, APRN, NNP-BC
National Association of Neonatal Nurses
The Children's Hospital in Denver
Aurora, CO

Patrick McNamara, MB, FRCPC
Canadian Paediatric Society
The Hospital for Sick Children
Toronto, ON, Canada

NRP Steering Committee Consultants

Louis P. Halamek, MD, FAAP
Stanford University
Palo Alto, CA

Jeffrey Perlman, MB, ChB, FAAP
Weill Cornell Medical College
New York Presbyterian Hospital
New York, NY

Jerry Short, PhD
University of Virginia
Charlottesville, VA

Myra H. Wyckoff, MD, FAAP
ILCOR Science Director
University of Texas Southwestern Medical Center
Dallas, TX

AAP Staff Liaisons

Kristy Crilly
Gina Pantone
Olyvia Phillips

Making the Transition to NRP® 7th Edition

The NRP 7th Ed. materials are ready and available for use.

Every five years, the NRP updates materials to reflect the new American Heart Association/American Academy of Pediatrics neonatal resuscitation guidelines.

Now what? Instructors must now prepare their NRP Providers to implement these practice changes in the delivery room. This can cause stress and confusion unless everyone knows:

- **What** the practice changes entail
- **How** your unit will implement new or unfamiliar practices such as delayed cord clamping and use of an electronic cardiac monitor
- **When** everyone is expected to use the NRP 7th Ed. recommendations

Update Strategies

NRP Instructors can use a variety of methods to educate and update NRP Providers about practice changes that affect hands-on newborn resuscitation. Here are some ideas:

- Go to the NRP Web site at aap.org/nrp, and click on “7th Ed. Info.” Download and share the “NRP Guidelines Summary”.
- Post update information in common areas such as the employee lounge, physician sleep areas, and locker rooms.
- Post video messages with your hospital network to update staff about NRP 7th Ed. practice changes. These may include demonstration of new techniques.
- Make sure staff has access to a radiant warmer stocked with NRP course supplies and a manikin. This will give providers a place to discuss and practice new or unfamiliar resuscitation interventions. Providers will benefit from practicing a standardized equipment check and measuring the nasal tragus length to determine endotracheal tube insertion depth. Moving to the head of the bed to perform the 2-thumb method of chest compressions is another change to practice.
- Provide brief in-service sessions to demonstrate and discuss practice changes that entail new equipment or skills.
- Offer 15-minute mock codes or “walk through” codes of newborn resuscitation. This will give providers a chance to ask questions and clarify information as well as locate and use new supplies and equipment. After the “code” providers can give feedback about changes in system processes.
- If you are teaching 6th Ed. Provider Courses and implementing 7th Ed. changes at the same time, you will need to teach a “hybrid” version of the course. If learners are still using the 6th Ed. textbook to prepare for the course, provide a summary of 7th Ed. information to learners before the course and integrate 7th Ed. materials into the course. If 7th Ed. changes are beginning in the delivery room soon, practice 7th Ed. revisions at Performance Skills Stations and use the new guidelines during the Simulation and Debriefing.

- Help learners understand the new requirements for NRP 7th Ed. Provider status. Learners need to:

- Set up a LMS account
- Register themselves for an NRP Provider Course
- Study the *Textbook of Neonatal Resuscitation*, 7th Ed.
- Successfully complete the NRP Exam
- Complete 3 eSim Cases
- Participate in the hands-on/instructor-led portion of the course

Set an Implementation Date

By January 1, 2017, all NRP Provider Courses must use NRP 7th Ed. materials and practices. You may implement these changes any time before that date.

To begin the transition, announce a date when changes will “go live” in your institution. Make sure systems are in place to support the changes. Post reminders to help providers remember 7th Ed. changes. This will help prevent confusion and differences of opinion during newborn resuscitations. A good reminder is to post the 7th Ed. chart for “initial endotracheal tube insertion depth” if that is your unit’s new method for determining tip-to-lip measurement of the ET tube. Also, add a note on target oxygen saturation charts for the PPV change. (New guidelines recommend starting PPV with 21% to 30% oxygen for newborns <30 weeks’ gestation.) These charts are commonly posted on or near the radiant warmer.

You may not be able to implement every change at the same time. For example, many hospitals will not be ready to implement delayed cord clamping without discussions with the obstetric providers. In some hospitals the decision to implement new practices are left up to individual providers; other hospitals require agreement on a standard protocol to guide practice, which takes more time.

continued on page 4



Making the Transition to NRP 7th Edition

Delivery Room Communication and Teamwork

The NRP 7th Edt. emphasizes preparing the team for newborn resuscitation. This practice helps resolve NRP 7th Edt. transition issues in the delivery room. Good delivery room communication and teamwork include the following:

- Perform a standardized equipment check before the birth. This ensures that all supplies and equipment are present and functional, including those needed to meet revised guidelines.
- Ask the OB provider about the plan for delayed cord clamping.
- During the team debriefing, anticipate potential interventions that remind one another of related practice changes.
- Everyone on the team should say aloud everything that they are doing during resuscitation. This not only helps the recorder but also alerts other team members to any action that raises concern or needs to be revised to meet new guidelines.
- After the resuscitation, debriefing is important. A debriefing provides all team members the opportunity to identify what went well and what can improve next time.

Consider Additional NRP Transitions

In addition to preparing the neonatal and OB teams for 7th Edt. changes, you may also have responsibilities for transitioning the administrative aspects of NRP at your hospital.

Transitions for Instructors

During the transition, there are two ways to train new instructors.

1. Until January 1, 2017 Instructor Candidates may continue to use the NRP 6th Edt. materials and processes. Instructor Candidates must complete the online exam and NRP Instructor DVD prior to participating in an Instructor Course led by an NRP Regional Trainer.

2. Alternatively, beginning June 1, 2016, use the NRP 7th Edt. process to become an Instructor.

- Complete an online application through the NRP LMS.
- Once the application is approved, purchase the Instructor Candidate bundle, which includes the Instructor Toolkit.
- Complete the NRP Instructor Course learning activity, the Instructor Exam, and eSim Cases.
- The final steps include identifying an Instructor Mentor (if this has not already been done) and co-teach two courses under the guidance of this mentor. At least one course should include a “debrief-the-debriefer” component.

Visit aap.org/nrp, click on the 7th Edt. info tab, and download the *Summary for Busy People*.

Transition for Administrators

- Instructors need to transition (or provide guidance to administration on how to transition) between the 6th and 7th Edt. Exams. You may use the 6th Edt. licenses in 2016 before purchasing 7th Edt. licenses.
- **All 6th Edt. NRP Provider Courses should be recorded in the existing NRP database**, while 7th Edt. courses should be scheduled and recorded in the new LMS. If learners are participating in a 7th Edt. course, they will need to have a LMS account to complete pre-course work and register for the hands-on/instructor-led portion of the course.

Lessons of the *Textbook of Neonatal Resuscitation, 7th Edition*

1 Foundations of Neonatal Resuscitation

2 Preparing for Resuscitation

3 Initial Steps of Newborn Care

4 Positive-Pressure Ventilation

5 Alternative Airways: Endotracheal Tubes and Laryngeal Masks

6 Chest Compressions

7 Medications

8 Post-resuscitation Care

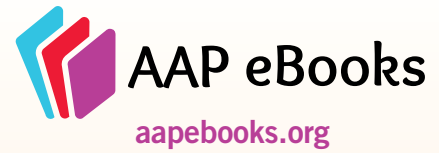
9 Resuscitation and Stabilization of Babies Born Preterm

10 Special Considerations

11 Ethics and Care at the End of Life



Neonatal Resuscitation eBook Collection for Your Institution



Available exclusively from the AAP!

Gain 24/7 access to a digital library of quality, peer-reviewed content.

An annual site license gives your entire organization access to the essential Neonatal Resuscitation eBook Collection, which includes the following titles:

- *Textbook of Neonatal Resuscitation*, 7th Edition
- *Guidelines for Perinatal Care*, 7th Edition
- *Guidelines for Air and Ground Transport*, 4th Edition
- *PCEP: Neonatal Care*, 2nd Edition
- *PCEP: Specialized Newborn Care*, 2nd Edition

The AAP eBook platform includes:

- State-of-the-art eBook reader or on-site delivery
- Enhanced search capabilities for easy discoverability
- Responsive design for fast page loading and mobile optimization
- Updated reading apps for smartphones and tablets
- Librarian resource center to manage IP access and usage data

To learn more about the Neonatal Resuscitation eBook Collection, contact institutions@aap.org.

2016 NRP® Current Issues Seminar

Registration Opens the First Week of June

AAP experience National Conference & Exhibition

October 22 – 25, 2016 | San Francisco

October 21 Pre-Conference Sessions & Events

CONNECTIONS

Save the date for Friday, October 21, 2016 and plan to participate in the **(C0010) NRP® Current Issues Seminar** to be held in conjunction with the 2016 American Academy of Pediatrics (AAP) National Conference and Exhibition (NCE) in San Francisco, CA.

This seminar is best suited for current NRP Instructors and clinical healthcare professionals involved with neonatal resuscitation. Topics at this seminar will connect the Guidelines for Neonatal Resuscitation and Emergency Cardiovascular Care with clinical practice, and further detail NRP 7th Edt. course administrative changes, instructor development, and learner engagement.

PLEASE NOTE: THIS IS NOT AN NRP COURSE.

Plenary Lectures

- More about Meconium-Panel Discussion
- MR. SOPA
- What is the NRP Research Grant Program?
- NRP Research Grant Presentation: Optimal Oxygen Saturation Range During Resuscitation Following Severe Asphyxia
- Informed Consent in the DR
- Team Training
- Delayed Cord Clamping
- NRP and PALS Case-based Discussions
- NRP Instructor Mentor Debrief of the Debriefing

Breakout Sessions

- Understanding the Guidelines and Case Demos
- NRP LMS 101 Q&A and eSim Demo
- Integrating OB and NRP Training
- Care and Management of the Premature Newborn

Seminar Objectives

After participation in this seminar, attendees should be able to:

- Discuss issues and clinical considerations related to meconium
- Explain the clinical response required when there is ineffective ventilation
- Describe the NRP Research Grant Program
- Discuss the optimal oxygen saturation range during resuscitation following severe asphyxia
- Recognize issues and considerations about informed consent in the DR
- Define how to implement change within your institution
- Identify issues and considerations related to delayed cord clamping
- Discuss the new PALS Guidelines and how to clinically assess when to use the NRP or PALS algorithm
- Describe the role of the NRP Instructor Mentor, how to conduct an effective simulation scenario + debrief, and how to debrief-the-debriefer
- Explain the NRP guidelines, teaching, and debriefing best practices
- Explain the NRP 7th Edt. LMS and eSim requirement
- Define best practices and considerations how to effectively integrate OB and NRP training
- Restate issues and considerations related to the care and management of the premature newborn

The 2016 National Conference and Exhibition will be held **October 22-25, 2016** at the Moscone Center in **San Francisco, CA**. Registration pricing will be available soon, and registration for the 2016 National Conference will open on June 1, 2016 – please check aapexperience.org/

Please note: The NCE exhibit floor will not open until Saturday, October 22nd.

The 2016 NRP Current Issues Seminar utilizes an online syllabus, and participants will not be provided paper handouts. Participants are encouraged to bring a laptop or print handouts in advance. Attendees will receive a web link to view the handouts two weeks prior to the 2016 NRP Current Issues Seminar.

NRP Current Issues Seminar (C0010) Friday, October 21, 2016

7:30-8:15AM	Registration	12:00-1:00PM
8:15-8:25AM	Welcome <i>Steven Ringer, MD, PhD, FAAP, Program Chair</i> <i>Henry Lee, MD, FAAP, Program Chair</i>	1:00-2:30PM
8:25-9:05AM	More About Meconium – Panel Discussion <i>Steven Ringer, MD, PhD, FAAP</i> <i>Eric Eichenwald, MD, FAAP</i>	
9:05-9:15AM	MR. SOPA <i>Gary Weiner, MD, FAAP</i>	
9:15-9:25AM	What is the NRP Research Grant Program? <i>Myra Wyckoff, MD, FAAP</i>	
9:25-9:40AM	NRP Research Grant Presentation: Optimal Oxygen Saturation Range During Resuscitation Following Severe Asphyxia <i>Munmun Rawat, MD</i>	
9:40-10:05AM	Informed Consent in the DR <i>Marya Strand, MD, MS, FAAP</i>	2:30-2:45PM
10:05-10:20AM	Break	2:45-4:15PM
10:20-10:40AM	Team Training <i>TBD</i>	
10:40-11:00AM	Delayed Cord Clamping <i>Anup Katheria, MD, FAAP</i>	4:15PM
11:00-11:30AM	NRP and PALS Case-based Discussions <i>Anne Ades, MD, FAAP</i> <i>Marya Strand, MD, FAAP</i>	4:15-4:45PM
11:30AM-12:00PM	The NRP Instructor Mentor and Debrief of the Debrief <i>Taylor Sawyer, DO, MEd, FAAP</i> <i>Jeanette Zaichkin, RN, MN, NNP-BC</i>	

Lunch

Concurrent Sessions

Breakout 1: Understand and Teach the Guidelines + Simulation Scenarios

NRP Experts

Breakout 2: Understand and Teach the Guidelines + Simulation Scenarios

NRP Experts

Breakout 3: Understand and Teach the Guidelines + Simulation Scenarios

NRP Experts

Breakout 4: NRP 7th Edition Database 101 Q&A and eSim Demo

Anne Ades, MD, FAAP

Kimberly Ernst, MD, MSMI, FAAP

Breakout 5A: Integrating OB and NRP Training

Julie Arafah, RN, MSN

Maurice Druzin, MD

Andrea Puck, CNS

Break

Repeat Concurrent Sessions

Breakout 5B: Care and Management of the Premature Newborn

Steven Ringer, MD, PhD, FAAP

Stephanie Dukhovny, MD

Adjourn

Debriefing (Optional)

Join the faculty for a debriefing session and an opportunity to ask any unanswered questions.

Seminar Credit

The American Academy of Pediatrics is accredited by the Accreditation Council for Continuing Medical Education (ACCME) to provide continuing medical education for physicians. This activity was planned and will be implemented in accordance with the ACCME Essentials.

All faculty and planning committee have no conflict of interest. Criteria for successful completion includes attendance at the seminar and submission of an evaluation form.

The AAP designates this educational activity for a maximum of 6.25 *AMA PRA Category 1 Credits™*. Physicians should only claim credit commensurate with the extent of their participation in the activity. This activity is acceptable for a maximum of 6.25 AAP credits. These credits can be applied toward the AAP CME/CPD award available to Fellows and Candidate Members of the AAP. The American Academy of Physician Assistants (AAPA) accepts *AMA PRA Category 1 Credits™* from organizations accredited by the ACCME.

This program is accredited for 6.25 NAPNAP CE contact hours of which 0 contain pharmacology (Rx), 0 related to psychopharmacology, 0 related to controlled substances, content per the National Association of Pediatric Nurse Practitioners (NAPNAP) Continuing Education Guidelines.

This activity is being submitted to the Ohio Nurses Association (OBN-001-91) for approval to award contact hours. The Ohio Nurses Association is accredited as an approver of continuing nursing education by the American Nurses Credentialing Center's Commission on Accreditation.

Application is in process to the American Association for Respiratory Care (AARC) for continuing education contact hours for respiratory therapists.

Summary of NRP 7th Edition Materials

In the new exam, questions can focus on the most important content (e.g. positive-pressure ventilation) and ask fewer questions about content that is covered briefly in the textbook (e.g. newborn physiology). Based on focus groups and feedback, several new enhancements were made to the format:

- Learners who pass the exam will be able to see which questions were missed and a reference to the textbook lesson.
- Learners who do not pass the exam will see the questions missed.
- Learners may repeat the exam until they attain a passing score. There will no longer be only two attempts per section.

Beginning with the NRP 7th Edt., there will be separate exams for NRP Instructors and Providers. The instructor exam includes the provider exam and section on instructor-specific questions.

eSim Cases

NRP eSim is a new online neonatal resuscitation simulation exercise required for achieving NRP provider status and maintaining NRP instructor status. This activity allows learners to practice the steps of neonatal resuscitation in a virtual environment.

If you attended an NRP Current Issues Seminar in the past few years, you may have attended a workshop where you previewed NRP eSim and provided feedback. Your comments brought these cases to life.

.....

BEGINNING IN 2017, ALL NRP INSTRUCTORS ARE REQUIRED TO PURCHASE ACCESS TO THE TOOLKIT EVERY TWO YEARS BEFORE THE RENEWAL DATE ON THEIR CARD.

.....

NRP eSim is a series of 5 online scenarios. Each learner will be required to complete 3 of the 5 available cases, one of which is titled Baby Jai case and serves as the eSim tutorial. A modified version of the Baby Jai case will be posted on the NRP web page prior to the release of the NRP 7th Edt. materials for review and practice.

After completing each case, the learner receives feedback about his/her performance. Learners may continue to repeat any or all of the eSim cases as many times as desired during their 2-year time frame.

Instructor Toolkit

The Instructor Toolkit is an online resource for NRP Instructors and Instructor Candidates. The Instructor Toolkit replaces the *Instructor Manual for Neonatal Resuscitation*. The toolkit will house all instructional resources in one location, searchable by keyword, and include the following:

- How to organize and provide an effective Provider Course
- Downloadable PDFs of the most commonly used documents and checklists for use in NRP Provider Courses
- Instructor references
- Media library
- Webinars
- Mentor resources

The Instructor Toolkit is part of the NRP Instructor Renewal bundle. Other components of the NRP Instructor Renewal bundle include: the instructor exam (continuing education credit is available), the NRP Instructor Course, and NRP eSim Cases.

7TH EDITION NRP PROVIDER PRICING – Provider Curriculum

Category	Full HealthStream HLC Customer	All Others	Discount Compared to Retail	
			Full HealthStream HLC Customer	All Others
Individual	–	\$35.00	–	–
Up to 100	\$30.00	\$35.00	14%	0%
101 – 500	\$29.00	\$33.50	17%	4%
501 – 1,000	\$28.00	\$32.00	20%	9%
> 1,000	\$27.00	\$30.50	23%	13%

7TH EDITION NRP INSTRUCTOR PRICING – Instructor Candidate bundle and Instructor Renewal Bundle

Category	Full HealthStream HLC Customer	All Others	Discount Compared to Retail	
			Full HealthStream HLC Customer	All Others
PRICING THROUGH 12/31/2016				
Individual	–	\$129.00	–	–
Up to 5	\$124.00	\$129.00	4%	0%
6 – 15	\$121.92	\$126.42	5%	2%
16 – 50	\$121.13	\$125.13	6%	3%
> 1,000	\$119.05	\$122.55	8%	5%
PRICING STARTING 1/1/2017				
Individual	–	\$149.00	–	–
Up to 5	\$144.00	\$149.00	3%	0%
6 – 15	\$141.52	\$146.02	5%	2%
16 – 50	\$140.53	\$144.53	6%	3%
> 1,000	\$138.05	\$141.55	7%	5%



Preparing for Resuscitation

Resuscitation Team is Requested to Attend a Birth

Ask the Four Pre-birth Questions to Assess Perinatal Risk

1

What is the expected gestational age?

2

Is the amniotic fluid clear?

3

How many babies are expected?

4

Are there any additional risk factors?

Assemble Team



Choose a team leader



Delegate tasks



Anticipate complications

Check Equipment



Scenario Begins



Approach OB provider to discuss plan of care, including delayed cord clamping

NRP® Learning Management System (LMS) FAQs

The following is a compilation of key questions you may ask during the transition. Keep this as a resource. Share this information with your colleagues. Post near your computer on your bulletin board.

Support During Transition

We understand the NRP Instructor role is only one of your many responsibilities. We appreciate this will be a challenging transition as we move away from our 30-year-old roster processing system. In time, the LMS will become familiar and you will grow to like the features and flexibility. We are here to help, and we will support you every step of the way!

Q *Why is the LMS available to only instructors on May 23rd?*

A The LMS will be available to instructors for 1 week before access is given to learners to allow time for instructors to review and begin scheduling in-person classes (now referred to as "Instructor-Led Events").

Q *When should I begin using the new LMS?*

A The mandatory implementation date for all NRP 7th Edt. materials, including the LMS, is January 1, 2017. Your hospital or institution may choose to transition earlier than this date, so please check with your administrator to learn if your specific transition date will occur before January 1, 2017.

Q *Where can I find training materials and resources about the new LMS?*

A There will be a number of LMS training materials available soon, including eLearning courses, written guides, webinars, and how-to videos, available at: www.healthstream.com/products/simulation-resuscitation/neonatal-resuscitation-program.

Q *Who can I contact for customer support?*

A Both the AAP and HealthStream customer support are here to help you!

Please contact HealthStream for:

- Technical inquiries
- Purchasing options for NRP online educational offerings (bundles including exam, NRP eSim Cases)

HealthStream customer support can be reached by phone at 800/521-0574 or e-mail at customer.service@healthstream.com.

Please contact AAP for:

- Questions about the materials/Instructor Toolkit/online courses
- Queries related to the existing NRP database or new LMS
- Provider status or renewal questions

AAP customer support can be reached by phone at 800/433-9016 x4797 or x4798, or by e-mail at lifesupport@aap.org.

Q *How much does it cost to purchase the NRP Instructor Renewal bundle, which includes the Instructor Course learning activity, Instructor exam, eSim cases, and the Instructor Toolkit?*

A The fee through 2016 is \$129.00, with some discount for volume purchases. Starting in 2017, the fee is \$149.00 every 2 years. However, if you purchase your access before January 1, 2017, you do not get charged again for your first instructor renewal that occurs after January 1, 2017. For example, if your next renewal date is in 2018 but you purchase access in 2016, it will be applied to your 2018 renewal.



Provider Courses (Live Events)

Q *How should I record course completions for 6th Edt. courses?*

A For the 6th Edt., you should continue to record course rosters in the existing NRP database as you always have. The existing database will be available until February 2, 2017 to enter any courses taught before December 31, 2016. **(Do not record 7th Edt. courses in the old/existing NRP database).**

Q *What changes should I communicate to my learners about course registration?*

A Learners will need to:

- Complete the NRP Provider Curriculum Part 1 course, which includes:
 - NRP Provider exam
 - 3 of 5 NRP eSim cases

Learners have 90 days to participate in an Instructor-led Event after completing Part 1 (exam and eSim).

- After completing the curriculum, learners will need to enroll in and then participate in the Instructor-led Event. *Students will need to register prior to the actual event, so it is vital that you post your courses for enrollment in advance.*

Q *How do I schedule Instructor-led Events in the new LMS?*

A Students enrolled in the NRP 7th Edt. Provider Curriculum or NRP 7th Edt. Instructor Candidate bundle will be required to attend an Instructor-led Event.

Instructor responsibilities will include scheduling the events, and grading the students for the event.

Q *How should I record Instructor-led Event completions for 7th Edt. courses?*

- A**
- Schedule event in the LMS in advance.
 - Direct students to complete online education and register for event.
 - After the event, instructors record “grade” for each student (pass/fail/no show).
 - After grading, learners receive an e-mail to complete a mandatory course evaluation.
 - After the learner completes the evaluation, their eCard is available!

Instructor Status and Profiles

Q *Will I keep my existing NRP Instructor ID number and expiration date?*

A Yes, you will keep your existing NRP Instructor ID number and your expiration month. 7th Edt. cards will be valid until the end of the month noted on the card (e.g. July 9, 2018 will be valid until July 31, 2018).

Q *Will my instructor profile information and course history transfer to the new LMS?*

A When the LMS launches, course rosters taught within the past two years will be migrated from the existing NRP database into the new LMS. These courses will appear in your profile under the name, “NRP 6th Edt. Instructor-led Event.”

Q *What do I need to do to renew my instructor status?*

A Beginning January 1, 2017, all instructors must complete the following every two years to renew their status:

- Teach or coteach two NRP Instructor-led Events.
- Purchase the NRP Instructor Renewal bundle, which includes access to the NRP Instructor Toolkit, Instructor Exam, NRP eSim Cases, and the online Instructor Course learning activity.
- Complete the NRP Instructor Exam and 3 NRP eSim Cases.

If your existing expiration is before December 31, 2016 and you meet all requirements (teach/coteach two 6th Edt. courses, complete the 6th Edt. exam) prior to your renewal date, you will automatically receive your new NRP Instructor Card in the mail.

If your existing expiration is after January 1, 2017, and you have met all renewal requirements (teach two of either 6th Edt. courses or 7th Edt. Instructor-led Events, complete the 6th Edt. exam or 7th Edt. exam/NRP eSim Cases, and purchase and enroll in the NRP Instructor Renewal bundle), you will automatically receive an eCard in your NRP LMS profile.

Q *Do I need to take the 7th Edt. exam, or will the 6th Edt. exam I already completed count toward my renewal?*

A If you completed the 6th Edt. exam for your next renewal, it will count toward your renewal. However, if your expiration date is after January 1, 2017, you will need to purchase and enroll in the 7th Edt. NRP Instructor Renewal bundle prior to your expiration date.

NRP® LMS 7th Edition Glossary

The NRP is excited to announce the new NRP 7th Edt. LMS will be available to instructors on May 23, and full access to all will be available on June 1!

The new LMS brings many enhancements to course roster recording and online education. It also brings a time of transition and change, as we retire the existing database and 30-year-old system for roster processing.

Learning Management System (LMS) Terminology

Electronic Completion Card (eCard)

Instructors and Providers can access their eCard, e-mail the eCard to a third party, and check renewal dates.

Existing Database

The “old” NRP database. All courses taught under the NRP 6th Edt. should be recorded in the existing old database.

Master Account (HealthStream ID)

Use your personal e-mail address to establish your master account. Your master account allows you to access your course records and eCard even if you move to another institution.

Instructor Candidate Bundle

Consists of two parts:

Part 1: Access to the NRP Instructor Toolkit

- 7th Edt. NRP Instructor Exam
- NRP eSim Cases
- Instructor Course learning activity

Part 2: Instructor-led Event portion. Following approval of an instructor candidate application, Instructor Candidates must purchase (or be assigned), enroll, and complete the curriculum.

Instructor-led Event

The in-person, instructor-led portion of an NRP course that includes hands-on skills, simulation, teamwork and communication. Instructor candidates participate in 2 Instructor-led events for the purpose of practice-teaching under supervision of their Instructor Mentor.

Instructor Mentor

Any instructor who has taught four courses since becoming an instructor. A mentor is responsible for observing and assisting an Instructor Candidate in teaching two Instructor-led Events and conducting a debrief-the-debriefer session.

Instructor Renewal Bundle (for Existing Instructors)

Includes:

- NRP Instructor Toolkit access
- 7th Edt. NRP Instructor Exam (mandatory)
- NRP eSim Cases (mandatory)
- Instructor Course learning activity (optional)
- Continuing Medical Education Credits
- Instructors must purchase and complete the 7th Edt. Instructor Exam and eSim Cases every two years to renew status

Instructor Toolkit

The online administrative and course tools for coordinating NRP courses. Contains the elements previously found in the (retired) instructor manual, as well as video clips, podcasts, forms, etc. (it is part of the Instructor Renewal Course for current instructors and Instructor Candidate Curriculum for new instructors).

Provider Curriculum

Consists of two parts:

- **Part 1:** 7th Edt. NRP Provider Exam and NRP eSim Cases
- **Part 2:** Instructor-led Event

Mark Your Calendar With These Important Dates!

- Launch of new NRP Learning Management System (LMS)
- NRP *Textbook of Neonatal Resuscitation*, 7th Edt. reference materials, online examination, instructor application, and online instructor course



SPRING
2016

MAY/JUNE
2016



- **May 23** – Instructor-only LMS preview
 - Events Management functionality available
 - Begin scheduling Instructor-led Events
- **June 1** – The 7th Edt. LMS goes “live”

- NRP Current Issues Seminar in San Francisco, CA



OCTOBER 21st
2016

DECEMBER 31st
2016



- Last date to teach a 6th Edt. Provider Course

- Mandatory 7th Edt. implementation date
- NRP Regional Trainer title retirement



JANUARY 1st
2017

FEBRUARY 2nd
2017



- Last date to submit 6th Edt. Provider Course roster

NRP® Research Grants Awarded

Retirement of the NRP® Instructor DVD



Congratulations to the following individuals who received 2015 NRP Grant Awards

Congratulations!

Young Investigator Awards:

Elizabeth Foglia, MD, MA, FAAP
University of Pennsylvania
Children's Hospital of Philadelphia

"Identification of Respiratory Targets for Lung Aeration"

Janene Fuerch, MD, FAAP
Stanford University

"Optimizing cognitive workload and human performance through gaze pattern categorization during simulated neonatal resuscitation"

Justin Josephsen, MD, MA, FAAP
St. Louis University

"Prevention of skills decay through telesimulation"

Research Grant Award:

Marya Strand, MD, MS, FAAP
St. Louis University

"Meconium Aspiration Syndrome and Non-vigorous Neonates – Pilot Study"

Congratulations to our research grant awardees!

The Fall/Winter issue of the *NRP Instructor Update* will include information about the 2017 NRP Research Grant Program and Young Investigator Award opportunities.

As NRP transitions to the 7th Ed., it is time to retire the *NRP Instructor DVD: An Interactive Tool for Facilitation of Simulation-based Learning*. The DVD was introduced in 2010 to illustrate the basics of scenario design and debriefing for NRP Instructors during the transition to simulation-based learning.

Sales of the NRP Instructor DVD stopped March 2016. New instructor candidates are encouraged to begin utilizing the 7th Ed. training materials.

Individuals that have already purchased Instructor DVDs may utilize the DVD for Instructor training through December 2016.

Who should attend the birth of a meconium-stained newborn? Is it necessary to have a team member with intubation skills present at the birth?

The most recent ILCOR review determined that there was insufficient evidence to support routine endotracheal suction for non-vigorous babies born through meconium-stained amniotic fluid (MSAF). The NRP Steering Committee's values include avoiding invasive procedures without good evidence of benefit for important outcomes. Therefore, the NRP Steering Committee no longer suggests routine endotracheal suction for non-vigorous babies delivered through MSAF until additional research demonstrates a benefit from this practice.

However, the presence of meconium-stained fluid is still considered a risk factor that increases the likelihood that the newborn will require resuscitation. At least two qualified people should be present at the time of birth solely to manage the baby. An individual with intubation skill should be identified and immediately available. If additional risk factors indicate that an extensive resuscitation is likely, a qualified team with full resuscitation skills should be present at the time of birth.



We'd Like to Hear From You

Does your unit use a particularly good neonatal code sheet or system for documenting resuscitation events and response? We are interested in seeing it. Please send it via e-mail to lifesupport@aap.org and we will contact you if we'd like to reproduce it or adapt it for others to consider.