

# Sequential Practice And Evaluation Nrp

## Respiratory Core Case 4 Disordered Control of Breathing (Respiratory Depression After Seizure)



### Pediatric Advanced Life Support

#### Scenario Lead-in

**Prehospital:** You are dispatched to a home where a 12-year-old child with a known seizure disorder is reported to be having a seizure.

**ED:** You are asked to examine a 12-year-old child brought to the ED by EMTs after a seizure.

**General Inpatient Unit:** You are asked by the nurse to examine a 12-year-old child with a known seizure disorder who was admitted after a generalized tonic-clonic seizure.

**ICU:** You are admitting a 12-year-old child with a known seizure disorder who was transported from another hospital after a generalized tonic-clonic seizure.

EVALUATE—Initial Impression	IDENTIFY	INTERVENE
<b>Consciousness</b> <ul style="list-style-type: none"> <li>Obtunded, eyes closed, no response to environment</li> </ul> <b>Breathing</b> <ul style="list-style-type: none"> <li>Decreased rate and effort, audible snoring</li> </ul> <b>Color</b> <ul style="list-style-type: none"> <li>Pink mucous membranes</li> </ul>	<ul style="list-style-type: none"> <li>Respiratory failure (inadequate breathing)</li> <li>Acute life-threatening condition</li> </ul>	<ul style="list-style-type: none"> <li>Activate emergency response system, if appropriate.</li> <li>Open airway and suction the oropharynx.</li> <li>Attach pads/leads and turn on monitor.</li> <li>Apply pulse oximeter.</li> </ul>
EVALUATE—Primary Assessment	IDENTIFY	INTERVENE
<ul style="list-style-type: none"> <li><b>Airway:</b> Snoring respirations</li> <li><b>Breathing:</b> Respiratory rate and depth irregular; rate about 5 to 7/min, coarse breath sounds, SpO<sub>2</sub> 98% on room air</li> <li><b>Circulation:</b> HR 74/min, peripheral pulses normal, capillary refill brisk, BP 105/65 mm Hg</li> <li><b>Disability:</b> Obtunded, not interactive</li> <li><b>Exposure:</b> Temperature 37°C (98.6°F)</li> </ul>	<ul style="list-style-type: none"> <li>Respiratory failure (inadequate breathing)</li> </ul>	<ul style="list-style-type: none"> <li>Assist ventilation with 100% FIO<sub>2</sub></li> <li>Analyze cardiac rhythm (normal sinus rhythm)</li> </ul>
EVALUATE—Secondary Assessment	IDENTIFY	INTERVENE
<b>SAMPLE history</b> <ul style="list-style-type: none"> <li><b>Signs and symptoms:</b> Generalized tonic-clonic seizure with decreased responsiveness</li> <li><b>Allergies:</b> Amoxicillin (rash)</li> <li><b>Medications:</b> Carbamazepine daily; rectal diazepam as needed for seizures</li> <li><b>Past medical history:</b> Seizures</li> <li><b>Last meal:</b> Dinner last night</li> <li><b>Events (onset):</b> Abrupt onset of generalized tonic-clonic seizure that stopped 10 minutes ago after administration of rectal diazepam</li> </ul> <b>Physical examination</b> <ul style="list-style-type: none"> <li>Repeat vital signs with assisted ventilation with 100% oxygen: HR 82/min, RR 15/min (with bag-mask ventilations), SpO<sub>2</sub> 98%, BP 105/65 mm Hg</li> <li><b>Head, eyes, ears, nose, and throat/nick:</b> Increased secretions</li> <li><b>Heart and lungs:</b> No murmur, coarse breath sounds, good chest rise with assisted ventilation</li> <li><b>Abdomen:</b> Normal</li> <li><b>Extremities:</b> No edema, no rash</li> <li><b>Back:</b> Normal</li> <li><b>Neurologic:</b> Obtunded, minimal response to pain</li> </ul>	<ul style="list-style-type: none"> <li>Respiratory failure</li> <li>Disordered control of breathing</li> </ul>	<ul style="list-style-type: none"> <li>Obtain vascular access (IV/IO)</li> <li>Consider specific interventions for disordered control of breathing (eg, reversal agents). Note: In patients with seizure disorder reversal of benzodiazepine is contraindicated.</li> <li>Prepare for noninvasive positive-pressure ventilation or endotracheal intubation.</li> </ul>
EVALUATE—Diagnostic Tests (Perform throughout the evaluation of the patient as appropriate)	IDENTIFY/INTERVENE	
<b>Lab data (as appropriate)</b> <ul style="list-style-type: none"> <li>ABG (not obtainable), glucose (point-of-care testing and lab) 115 mg/dL</li> <li>Pending: Electrolytes, BUN/creatinine, CBC with differential, anticonvulsant (carbamazepine) level, blood culture (if infection suspected)</li> </ul> <b>Imaging</b> <ul style="list-style-type: none"> <li>Chest x-ray: Ordered</li> </ul>	<ul style="list-style-type: none"> <li>Not always possible to obtain ABG</li> <li>Manage respiratory failure on clinical basis—improve ventilation and oxygenation with positive-pressure ventilation</li> </ul>	

Re-evaluate-identify-intervene after each intervention.

## Understanding Sequential Practice and Evaluation in NRP

**Sequential practice and evaluation NRP** (Neonatal Resuscitation Program) is a structured approach to training healthcare professionals in the essential skills needed for effective neonatal resuscitation. This method integrates a step-by-step practice model and rigorous evaluation to ensure that participants not only learn the theoretical aspects of neonatal care but also develop practical skills that can be applied in real-life scenarios. In this article, we will delve into the components of sequential practice and evaluation, its importance in NRP, the methodologies used, and how it enhances the overall training experience for healthcare providers.

# The Fundamentals of NRP

The Neonatal Resuscitation Program was developed by the American Academy of Pediatrics (AAP) and the American Heart Association (AHA) to provide healthcare providers with the necessary knowledge and skills to resuscitate newborns effectively. The program covers various topics, including:

- Recognition of the need for resuscitation
- Basic resuscitation techniques
- Advanced resuscitation techniques
- Team dynamics and communication
- Post-resuscitation care

The NRP curriculum is designed to be interactive and practical, employing a combination of lectures, simulations, and hands-on practice. This is where the concept of sequential practice and evaluation comes into play.

## The Concept of Sequential Practice

Sequential practice refers to an organized approach to learning where participants engage in practice sessions that build upon each other. This method allows learners to progressively develop their skills and confidence in a structured manner. Key components of sequential practice in NRP include:

### 1. Step-by-Step Skill Acquisition

Sequential practice emphasizes breaking down complex skills into manageable steps. For example, in neonatal resuscitation, the practice begins with basic skills such as airway management and progresses to more advanced techniques like chest compressions and medication administration. This gradual approach helps participants become more comfortable with each skill before moving on to the next.

### 2. Repetition and Reinforcement

Repetition is crucial for skill mastery. In the context of NRP, participants are encouraged to repeat each skill multiple times, allowing them to refine their techniques and build muscle memory. This repetitive practice is often conducted in a simulated environment, which mimics real-life scenarios and helps participants feel more prepared for actual situations.

### **3. Feedback Mechanisms**

Feedback is an integral part of the sequential practice model. Instructors provide real-time feedback during practice sessions, helping participants identify areas for improvement. This immediate feedback loop fosters a learning environment where participants can adjust their techniques and enhance their understanding of key concepts.

## **The Role of Evaluation in NRP**

Evaluation is a critical aspect of the sequential practice model in NRP. It serves to assess the participants' skill acquisition and understanding of the material. Evaluation can be categorized into formative and summative assessments.

### **1. Formative Evaluation**

Formative evaluation occurs throughout the training process. It is ongoing and helps instructors gauge the participants' progress. Techniques for formative evaluation may include:

- Observation during practice sessions
- Peer assessments
- Self-assessment checklists

By utilizing formative evaluation, instructors can adjust their teaching strategies to better support learners and address any challenges they may face.

### **2. Summative Evaluation**

Summative evaluation takes place at the end of the training program. It assesses the overall competency of participants and determines whether they have met the necessary standards to perform neonatal resuscitation effectively. Common methods of summative evaluation include:

- Written examinations to assess knowledge
- Practical skills assessments using simulation scenarios
- Standardized patient assessments

This comprehensive evaluation ensures that participants are well-equipped to handle neonatal emergencies.

## **Benefits of Sequential Practice and Evaluation in NRP**

The integration of sequential practice and evaluation in NRP offers several benefits:

### **1. Enhanced Skill Retention**

A structured approach to practice allows participants to retain information and skills more effectively. The combination of repetition and feedback helps solidify knowledge, ensuring that healthcare providers can recall and apply their training when faced with real-world situations.

### **2. Increased Confidence**

As participants progress through the sequential practice model, they become increasingly confident in their abilities. This confidence is crucial in high-pressure scenarios, such as neonatal resuscitation, where decisive action is required.

### **3. Tailored Learning Experiences**

The use of formative evaluation allows instructors to identify individual learning needs. This enables them to provide targeted feedback and support, ensuring that each participant receives the guidance necessary to improve their skills.

### **4. Improved Teamwork and Communication**

The NRP emphasizes the importance of teamwork and communication during resuscitation efforts. Sequential practice sessions often involve team-based simulations, allowing participants to practice working collaboratively, enhancing their ability to function as part of a cohesive unit in real-life situations.

## **Implementation of Sequential Practice and Evaluation in NRP Programs**

To effectively implement sequential practice and evaluation in NRP programs, organizations should consider the following steps:

1. **Curriculum Development:** Create a structured curriculum that outlines the sequence of skills to be taught and the evaluation methods that will be used.
2. **Training of Instructors:** Ensure that instructors are well-trained in both the content and the sequential practice model, so they can effectively guide participants.
3. **Simulation Resources:** Invest in high-fidelity simulation equipment that accurately represents real neonatal scenarios for practice sessions.
4. **Regular Feedback:** Establish mechanisms for ongoing feedback from both instructors and peers to foster a supportive learning environment.
5. **Evaluation Metrics:** Develop clear metrics for both formative and summative evaluations to assess participant progress and competency.

## Conclusion

Incorporating **sequential practice and evaluation NRP** into neonatal resuscitation training provides a robust framework for skill acquisition and assessment. This structured approach not only enhances the learning experience for healthcare providers but ultimately leads to improved outcomes for newborns requiring resuscitation. By emphasizing step-by-step skill development, feedback, and comprehensive evaluation, NRP programs can ensure that participants are well-prepared to handle the complexities and challenges of neonatal emergencies. As the field of neonatal care continues to evolve, the importance of effective training methodologies like sequential practice and evaluation will only grow, underscoring the commitment to providing the highest standard of care for vulnerable newborns.

## Frequently Asked Questions

### What is sequential practice in the context of neonatal resuscitation?

Sequential practice in neonatal resuscitation refers to the step-by-step approach to performing resuscitation techniques in a systematic manner, ensuring that each step is completed before moving on to the next, which enhances effectiveness and improves outcomes.

### How does the Neonatal Resuscitation Program (NRP) evaluate practitioners?

The NRP evaluates practitioners through a combination of written tests, skills demonstrations, and simulation exercises that assess their ability to perform neonatal resuscitation according to the latest evidence-based guidelines.

## **What are the key components of sequential practice in NRP?**

Key components include assessment of the newborn, providing warmth, ensuring clear airways, effective ventilation, chest compressions if necessary, and administration of medications, all executed in a sequential manner.

## **Why is evaluation important in sequential practice of NRP?**

Evaluation is crucial as it allows practitioners to identify areas for improvement, ensure adherence to protocols, and ultimately enhance the quality of care provided to newborns in need of resuscitation.

## **What role do simulations play in the evaluation of NRP?**

Simulations provide a safe environment for practitioners to practice and evaluate their skills in realistic scenarios, allowing for immediate feedback and learning opportunities without risk to real patients.

## **How often should healthcare providers participate in NRP training and evaluation?**

Healthcare providers should participate in NRP training and evaluation at least every two years, or more frequently as needed, to stay current with updates in guidelines and to maintain their skills.

## **What are the benefits of using sequential practice in NRP training?**

Benefits include improved retention of skills, enhanced confidence among practitioners, and better coordination among team members during actual resuscitation events, ultimately leading to better patient outcomes.

Find other PDF article:

<https://soc.up.edu.ph/49-flash/pdf?dataid=ZIt23-7144&title=pure-tel-water-softener-manual.pdf>

## **Sequential Practice And Evaluation Nrp**

### **SEQUENTIAL Definition & Meaning - Merriam-Webster**

The meaning of SEQUENTIAL is of, relating to, or arranged in a sequence : serial. How to use sequential in a sentence. Did you know?

### *SEQUENTIAL - SYNTHESIS INNOVATION FOR EVERY GENERATION*

LA-based musician Shibo is a loyal Sequential user, creating and recording his own samples in a unique & profound way. Better than words, he enjoys recording himself live, performing his ...

### SEQUENTIAL | English meaning - Cambridge Dictionary

The difficulties in plotting sequential measurements of a single vowel are overcome by using

multiple plots for each speaker, comparing onset, midpoint, and offset.

### **SEQUENTIAL Definition & Meaning | Dictionary.com**

Sequential definition: characterized by regular sequence of parts.. See examples of SEQUENTIAL used in a sentence.

### Sequential - Definition, Meaning & Synonyms | Vocabulary.com

Something that is sequential often follows a numerical or alphabetical order, but it can also describe things that aren't numbered but still need to take place in a logical order, such as the ...

### **Sequencial or Sequential - Which is Correct? - Two Minute English**

Feb 1, 2025 · When you hear two words that sound alike, it can be tricky to figure out which one is correct. Have you ever been in that position? It's like standing at a crossroads and not ...

### **SEQUENTIAL definition and meaning | Collins English Dictionary**

Definition of 'sequential' sequential (sɪkwənʃəl ) adjective [usually ADJECTIVE noun]

### **sequential - Wiktionary, the free dictionary**

Jul 13, 2025 · Adjective [edit] sequential (not comparable) Succeeding or following in order.

Antonym: non-sequential

### **Sequential - definition of sequential by The Free Dictionary**

Define sequential. sequential synonyms, sequential pronunciation, sequential translation, English dictionary definition of sequential. adj. 1. Forming or characterized by a sequence, as of units ...

### *What does SEQUENTIAL mean? - Definitions.net*

Sequential refers to things that follow one after another in a defined arrangement or order. It often refers to a series of events, actions, items, or steps that follow a particular pattern or progression.

### *SEQUENTIAL Definition & Meaning - Merriam-Webster*

The meaning of SEQUENTIAL is of, relating to, or arranged in a sequence : serial. How to use sequential in a sentence. Did you know?

### SEQUENTIAL - SYNTHESIS INNOVATION FOR EVERY GENERATION

LA-based musician Shibo is a loyal Sequential user, creating and recording his own samples in a unique & profound way. Better than words, he enjoys recording himself live, performing his ...

### **SEQUENTIAL | English meaning - Cambridge Dictionary**

The difficulties in plotting sequential measurements of a single vowel are overcome by using multiple plots for each speaker, comparing onset, midpoint, and offset.

### SEQUENTIAL Definition & Meaning | Dictionary.com

Sequential definition: characterized by regular sequence of parts.. See examples of SEQUENTIAL used in a sentence.

### Sequential - Definition, Meaning & Synonyms | Vocabulary.com

Something that is sequential often follows a numerical or alphabetical order, but it can also describe things that aren't numbered but still need to take place in a logical order, such as the ...

### **Sequencial or Sequential - Which is Correct? - Two Minute English**

Feb 1, 2025 · When you hear two words that sound alike, it can be tricky to figure out which one is

correct. Have you ever been in that position? It's like standing at a crossroads and not ...

### **SEQUENTIAL definition and meaning | Collins English Dictionary**

Definition of 'sequential' sequential (sɪkwənʃəl ) adjective [usually ADJECTIVE noun]

### **sequential - Wiktionary, the free dictionary**

Jul 13, 2025 · Adjective [edit] sequential (not comparable) Succeeding or following in order.

Antonym: non-sequential

### *Sequential - definition of sequential by The Free Dictionary*

Define sequential. sequential synonyms, sequential pronunciation, sequential translation, English dictionary definition of sequential. adj. 1. Forming or characterized by a sequence, as of units ...

### **What does SEQUENTIAL mean? - Definitions.net**

Sequential refers to things that follow one after another in a defined arrangement or order. It often refers to a series of events, actions, items, or steps that follow a particular pattern or progression.

Enhance your skills with sequential practice and evaluation NRP techniques. Discover how to improve outcomes in neonatal resuscitation. Learn more now!

[Back to Home](#)