# **Exam Handbook**

# ACCNS-N

Neonatal
Clinical Nurse Specialist Certification
(Wellness Through Acute Care)

AACN
CERTIFICATION
CORPORATION

Certification Organization for the American Association of Critical-Care Nurses

# **MISSION**

AACN Certification Corporation drives patient health and safety through comprehensive credentialing of acute and critical care nurses, advancing practice consistent with standards of excellence.

# VISION

All nurses caring for acutely and critically ill patients and their families are certified.

# **VALUES**

As the Corporation advances its mission and vision to fulfill its purpose and inherent obligation of driving the health and safety of patients experiencing acute and critical illness, we are guided by a set of deeply rooted values. These values are the foundation upon which we build our relentless pursuit of excellence.

- Integrity We demonstrate sound judgment, ethical behavior and accountability in all we do.
- **Inclusion** We cultivate an inclusive culture, where everyone contributes their unique strengths and perspectives.
- **Transformation** We drive change and innovation to positively impact the healthcare system and improve the lives of patients, families and nurses.
- **Leadership** We advocate and influence to achieve optimal outcomes and healthy work environments.
- **Relationships** We collaborate and advance partnerships, honoring each individual to strengthen the collective.

# **ETHICS**

AACN and AACN Certification Corporation consider the American Nurses Association (ANA) Code of Ethics for Nurses foundational for nursing practice, providing a framework for making ethical decisions and fulfilling responsibilities to the public, colleagues and the profession. AACN Certification Corporation's mission of public protection supports a standard of excellence where certified nurses have a responsibility to read about, understand and act in a manner congruent with the ANA Code of Ethics for Nurses.



The following AACN Certification Corporation programs have been accredited by the Accreditation Board for Specialty Nursing Certification (ABSNC).

CCRN <sup>®</sup> (Adult)	CCRN <sup>®</sup> (Pediatric)	CCRN° (Neonatal)	PCCN° (Adult)	ACNPC-AG <sup>®</sup>
CMC <sup>®</sup>	CSC®	ACCNS-AG®	ACCNS-N°	ACCNS-P°

Our advanced practice certification programs, ACCNS-AG, ACCNS-P, ACCNS-N and ACNPC-AG, are in alignment with the Consensus Model for APRN Regulation and other foundational national standards for APRN education, accreditation and regulation.



Certification Organization for the American Association of Critical-Care Nurses

# **ACCNS-N EXAM HANDBOOK**

# Neonatal Clinical Nurse Specialist (wellness through acute care)

As healthcare becomes increasingly complex and challenging, certification has emerged as a mark of excellence showing patients, employers and the public that a nurse possesses a defined body of knowledge and has met the rigorous requirements to achieve specialty and/or subspecialty certification.

AACN Certification Corporation programs were created to protect healthcare consumers by validating the knowledge of nurses who care for and/or influence the care delivered to the acutely and critically ill. We are pleased to provide you with this handbook with information about our programs and how to apply for and take the ACCNS-N certification exam.

Today, nurses hold more than 140,000 certifications from AACN Certification Corporation.

## **Specialty Certifications**

**CCRN**® is for the nurse providing care to or influencing the care of acutely/critically ill adult, pediatric or neonatal patients. Three eligibility pathways are available:

- Direct Care for the nurse who provides direct care to acutely/critically ill adult, pediatric or neonatal patients.
- **Knowledge Professional** for the nurse who influences the care delivered to acutely/critically ill adult, pediatric or neonatal patients, but does not primarily or exclusively provide direct care.
- **Tele-critical Care** for the nurse working in a tele-critical care setting monitoring/caring for acutely/critically ill adult patients from a remote location.

**PCCN®** is for the progressive care nurse. Two pathways of eligibility are available:

- **Direct Care** for the nurse providing direct care to acutely ill adult patients.
- **Knowledge Professional** for the nurse who influences the care delivered to acutely ill adult patients, but does not primarily or exclusively provide direct care.

#### **Subspecialty Certifications**

**CMC**<sup>®</sup> is for the certified nurse providing direct care to acutely/critically ill adult cardiac patients.

**CSC**® is for the certified nurse providing direct care to acutely/critically ill adult patients during the first 48 hours after cardiac surgery.

#### **Advanced Practice Certifications**

ACNPC-AG® is for the nurse educated at the graduate level as an adult-gerontology acute care nurse practitioner (AGACNP).

The **ACCNS** credentials are for nurses educated at the graduate level as clinical nurse specialists to provide care across the continuum from wellness through acute care:

ACCNS-AG® is for the clinical nurse specialist educated to care for adult-gerontology patients.

ACCNS-P® is for the clinical nurse specialist educated to care for pediatric patients.

**ACCNS-N**<sup>®</sup> is for the clinical nurse specialist educated to care for neonatal patients.

With implementation of the Consensus Model in 2015, ACNPC and CCNS are available as renewal options only:

**ACNPC**<sup>®</sup> is for the acute care nurse practitioner educated to provide care to adult patients.

**CCNS**<sup>®</sup> is for the acute/critical care clinical care specialist educated to provide care to adult, pediatric or neonatal patients.

AACN Certification Corporation's APRN certifications are recognized for licensure in all U.S. states and territories.

We continually seek to provide quality certification programs that meet the changing needs of nurses and patients. Please visit <a href="https://www.aacn.org/certification">www.aacn.org/certification</a>, or call 800-899-2226 for more information about the above certifications.

Thank you for your commitment to patients and their families and to becoming certified.



Please direct inquiries to:

AACN Certification Corporation, 27071 Aliso Creek Road, Aliso Viejo, CA 92656 800-899-2226 • Fax: 949-362-2020 • <u>APRNcert@aacn.org</u>

Please include your AACN customer number with all correspondence to AACN Certification Corporation.

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The following information can be found in the <u>Certification Exam Policy Handbook</u> online at <u>www.aacn.org/certhandbooks</u>:

- AACN Certification Programs
- Name and Address Changes
- Confidentiality of Exam Application Status
- Testing Options
- Exam Scheduling and Cancellation
- · Exam Day Experience

- Duplicate Score Reports
- Recognition of Certification
- Use of Credentials
- Denial of Certification
- Revocation of Certification
- Review and Appeal of Certification Eligibility

# **ACCNS-N Certification Program**

ACCNS-N® is an entry-level advanced practice certification for clinical nurse specialists (CNSs) educated at the graduate level to provide advanced nursing care across the continuum of healthcare services - wellness through acute care - to meet the specialized needs of the neonatal patient population.

# **ACCNS-N® Registered Service Mark**

ACCNS-N is a registered service mark and denotes certification as a neonatal clinical nurse specialist as granted by AACN Certification Corporation.

Clinical nurse specialists who have not achieved ACCNS-N certification or whose ACCNS-N certification has lapsed are not authorized to use the ACCNS-N credential.

Misuse of the credential is viewed by AACN Certification Corporation as misleading to the public and may result in denial or revocation of certification.

# **Purpose and Rationale**

The purpose of ACCNS-N certification is to help ensure public protection. New graduate clinical nurse specialists are required to pass a psychometrically sound exam that measures the advanced practice competencies needed to perform safely and effectively as a newly licensed, entry-level clinical nurse specialist with authority to diagnose and prescribe.

The ACCNS-N exam is based on a study of practice, also known as a job analysis. The study of practice, conducted at least every five years, validates the knowledge, skills and experience required for safe and effective advanced practice as an entry-level neonatal CNS.

The test plan, which provides an outline of exam content, is developed by an expert ACCNS-N panel based on the results of the study of practice.

Eligibility requirements for ACCNS-N certification are based on the *Consensus Model for APRN Regulation* and other foundational national standards for APRN education, accreditation and regulation.

An unencumbered U.S. license as RN or APRN is required to validate that a nurse is following accepted legal nursing practice in compliance with State Board of Nursing requirements.

State Boards of Nursing may use ACCNS-N exam results as a factor in making APRN licensure determinations. As regulatory partners, AACN Certification Corporation's master's-prepared registered nurses are required to

evaluate graduate program curricula for compliance with national and state standards.

#### **Exam Structure and Content**

The ACCNS-N exam is three-and-a-half (3 ½) hours and consists of 175 multiple-choice items. Of the 175 items, 150 are scored. The remaining 25 items are used to gather statistical data on item performance for future exams.

Sixty-nine percent (69%) of the items test clinical judgment related to nursing care of the neonatal patient population (wellness through acute care). The remaining items (31%) test non-clinical judgment knowledge required for neonatal CNS practice.

AACN Certification Corporation is transitioning to the use of generic names only for medications in exams and practice exam products. During the transition, exam candidates may continue to see items that include both generic and trade names.

# **Passing Point/Cut Score**

A criterion-referenced standard setting process, known as the modified Angoff, is used to establish the passing point/cut score for the exam. Each candidate's performance on the exam is measured against a predetermined standard.

The passing point/cut score for the exam is established using a panel of subject matter experts, a Score Evaluation Committee (SEC), who carefully reviews each exam question to determine the basic level of knowledge or skill that is expected. The passing point/cut score is based on the panel's established difficulty ratings for each exam question.

Under the guidance of a psychometrician, the panel develops and recommends the passing point/cut score, which is reviewed and approved by AACN Certification Corporation. The passing point/cut score for the exam is established to identify individuals with an acceptable level of knowledge and skill. All individuals who pass the exam, regardless of their score, have demonstrated an acceptable level of knowledge.

# **ACCNS-N Exam Eligibility**

# **Score Reporting**

For purposes of evaluating educational programs, exam pass/fail status and a breakdown of exam scores by content area will be reported to the candidate's program director.

The Board of Nursing in the state(s) in which you have applied for or intend to apply for licensure will also be notified of your pass/fail status.

ACCNS-N certification is accepted in all states that recognize the CNS as an APRN role.

#### Licensure

Current, unencumbered U.S.¹ RN or APRN licensure is required.

- An unencumbered license is not currently being subjected to formal discipline by the board of nursing in the state(s) in which you are practicing and has no provisions or conditions that limit your nursing practice.<sup>2</sup>
- Provisions or conditions may include, but are not limited to, direct supervision of practice, drug administration limitations and/or practice area exclusions.
- Documentation of all provisions and conditions from the board or its designee must be reviewed prior to approval for testing.
- Candidates and ACCNS-N-certified nurses must notify AACN Certification Corporation within
   30 days if any provisions or conditions are placed on their RN or APRN license(s).

Nurses who hold an encumbered license, meaning a provision or condition that limits their nursing practice has been placed against their RN and/or APRN license, may be eligible for Conditional Certification. Email <a href="mailto:APRNcert@aacn.org">APRNcert@aacn.org</a> to inquire.

- Conditional Certification is a temporary status granted to a nurse seeking APRN certification who has a provision or condition placed against their RN and/or APRN license.
- Conditional status will be changed to Active status once the provision or condition against the RN and/

- or APRN license has been removed and the license is unencumbered.
- If the SBON suspends or revokes the nurse's license and he/she cannot practice, certification will be revoked.

## **Education**

Completion of a graduate-level advanced practice education program that meets the following requirements:

- The program is through a college or university that offers a CCNE or ACEN accredited master's or higher degree in nursing with a concentration as a neonatal clinical nurse specialist (CNS) covering the spectrum of wellness through acute care.
- Both direct and indirect clinical supervision must be congruent with current AACN and nursing accreditation guidelines.
- 3. The curriculum includes but is not limited to:
  - a. Biological, behavioral, medical and nursing sciences relevant to practice as a neonatal CNS, including advanced pathophysiology, pharmacology and physical assessment
  - b. Legal, ethical and professional responsibilities of the CNS
  - c. Supervised clinical practice relevant to the specialty
- 4. The curriculum meets the following criteria:
  - a. The curriculum is consistent with the competencies of neonatal CNS practice.
  - The instructional track/major has a minimum of 500 supervised clinical practice hours overall.
  - c. All clinical hours are focused on the direct care of neonatal patients and completed within the U.S.
  - d. The supervised clinical experience is directly related to the knowledge and all role components of the neonatal CNS.

continued

<sup>&</sup>lt;sup>1</sup> Includes District of Columbia and U.S. territories of Guam, Virgin Islands, American Samoa and Northern Mariana Islands

<sup>&</sup>lt;sup>2</sup> If a restriction (temporary or permanent) is placed on an RN or APRN license for an incident that occurred prior to obtaining the license, AACN Certification Corporation will evaluate such an occurrence on a case-by-case basis to determine if exam eligibility requirements are met.

# **ACCNS-N Exam Eligibility** (continued)

Completion of 500 supervised clinical practice hours in all roles of the neonatal CNS within the graduate-level educational program is required. A portion of the total clinical hours must be focused on wellness and a portion on acute care, in the neonatal patient population.

Didactic coursework with content related to the care of neonatal patients, covering wellness through acute care, is required. Content must be in alignment with the ACCNS-N Test Plan.

- The director of your education program must complete an Educational Eligibility Form (see page 22).
- Official, final transcripts for all graduate-level nursing coursework showing degree/date conferred are required.
  - Secure, electronic transcripts may be emailed directly from the school to <u>APRNcert@aacn.org</u>.
  - Mailed transcripts must be sent to AACN in a sealed envelope directly from the school.
- If you are making up clinical or didactic coursework to meet ACCNS-N exam eligibility, courses must be completed in a post-graduate certificate or DNP program.

AACN Certification Corporation may adopt additional eligibility requirements at its sole discretion. Any such requirements will be designed to establish, for the purposes of ACCNS-N certification, the adequacy of a candidate's knowledge in care of the acutely and/or critically ill.

Questions regarding eligibility should be emailed to <a href="mailto:APRNcert@aacn.org">APRNcert@aacn.org</a>.

# **Application Fees**

ACCNS-N Fees	Member	Nonmember
Computer-Based Exam	\$270	\$380
Retest	\$210	\$315
Renewal by Exam	\$210	\$315

Payable in U.S. funds. Fees are subject to change without notice. A \$15 fee will be charged for a returned check.

Applicants determined to be ineligible for the ACCNS-N exam will have their application fee refunded.

# **Online Application Process**

- Register online for computer-based testing at www.aacn.org/certification > Get Certified
- ▶ **Before you get started**, have available the following:
  - RN or APRN license number and expiration date
  - Credit card (Visa, MasterCard, Discover or American Express)
- ▶ Official, final transcript(s) for all *graduate-level* nursing coursework are required
  - · Must show degree and date conferred
  - Secure, electronic transcript may be emailed directly from the school to <u>APRNcert@aacn.org</u>
  - Mailed transcripts must be sent to AACN in a sealed envelope directly from the school
- ▶ Educational Eligibility Form completed by program director
  - Paper form or online via Program Director Portal

# **Paper Application Process**

Complete and submit the following in one envelope:

- ▶ **Official, final** transcript(s) for all *graduate-level* nursing coursework are required
  - · Must show degree and date conferred
  - Secure, electronic transcript may be emailed directly from the school to <u>APRNcert@aacn.org</u>
  - Mailed transcripts must be sent to AACN in a sealed envelope *directly from the school*
- ▶ Educational Eligibility Form on page 22
  - To be completed/signed by director of CNS program; originals only, or emailed direct from school
- ▶ Application/Honor Statement on pages 23-25
  - Fill in all requested information, sign and date
- ▶ Application fee
  - Credit card, check or money order

# Use your legal name on the application.

This name must match photo identification used for exam entry and will be the name printed on your certificate.

# 1. Receive email notification of receipt of application

- AACN will send you an email confirming that your application has been received and forwarded to a Certification specialist for evaluation.
  - Evaluation will take 1 to 4 weeks depending on whether we need to contact your school to request additional information to confirm your eligibility.

#### 2. Receive confirmation email

- Once all required documentation is received and your application is approved, AACN will send an email with a link to schedule your exam. The email will include the eligibility period during which you must take the exam normally a 90-day window, but currently a 180-day window.
- In your AACN customer dashboard, you will also find a "Schedule Exam" link.
- If you do not receive your confirmation email after applying for an exam, please email <a href="mailto:APRNcert@aacn.org">APRNcert@aacn.org</a>.

#### 3. Schedule the exam

- In your confirmation email from AACN, you will find a link to schedule your exam appointment or from your AACN customer dashboard, you can click "Schedule Exam." Both links will take you to the AACN Scheduling page.
- Before you select an exam date, you will need to choose your preferred computer-based testing options at a PSI Testing Center or via Live Remote Proctoring from your computer in a quiet, private location. For details refer to the <u>Certification Exam Policy Handbook</u> at www.aacn.org/certhandbooks.
- If you are taking a paper-and-pencil exam or testing outside the U.S., AACN and PSI will coordinate with you to schedule you exam appointment.

# 4. Sit for the exam

- Upon completion of computer-based exams, results will show on-screen, and a detailed score report will be emailed to you within 24 hours.
- Results of paper-and-pencil exams are received by mail 6 to 8 weeks following testing.
- Successful candidates will be mailed their wall certificate approximately 4-6 weeks after testing. Certificants are also able to self-print a certifacte through their AACN Dashboard; log into AACN.org and select Certification. More information will be provided in your congratulations email.

Please ensure that AACN has your current contact information on record.

Updates may be made online at <a href="https://www.aacn.org/myaccount">www.aacn.org/myaccount</a> or emailed to <a href="maileo!info@aacn.org">info@aacn.org</a>.

For name changes, please call AACN Customer Care at **800-899-2226**.

# **ACCNS-N Certification Renewal**

# Purpose and Limitations of Renewal Options

The purpose of certification renewal is to promote continued competence. The renewal process helps to maintain an up-to-date knowledge base through one of the following options:

- Practice hours and CE Points including pharmacology CE
- Practice hours, pharmacology CE and passing the certification exam
- CE Points including pharmacology CE and passing the certification exam

Following are the limitations to the components of the renewal options:

- CE limitations include content quality and relevance to practice as well as an individual's ability to selfselect CEs most pertinent to the individual's practice and educational needs.
- Limitations of practice hours include the quality of the practice environment and limitations on learning opportunities.
- One limitation of the exam is not assessing new competencies, as exam competencies were validated through initial certification.

Requiring multiple components for renewal rather than one decreases the limitations and furthers the goal of continued competence.

#### **Renewal Period**

ACCNS-N certification is granted for a period of 5 years.

Your certification period begins the first day of the month in which the ACCNS-N exam is passed and ends 5 years later, e.g., February 1, 2023 through January 31, 2028.

Renewal notifications will be emailed to you starting 4 months prior to your scheduled ACCNS-N renewal date. You are responsible for renewing your certification even if you do not receive a renewal notification. Refer to www.aacn.org/certification > Renew Certification for current information.

# **Eligibility**

To maintain a current ACCNS-N certification, renewal must be completed **prior to** your certification expiration date.

To reobtain certification you would need to meet the current ACCNS-N initial exam eligibility requirements (based on educational preparation) and pass the ACCNS-N exam.

Eligible candidates for ACCNS-N renewal must hold current, unencumbered U.S.¹ RN or APRN license. An unencumbered license has not been subjected to formal discipline by the board of nursing in the state(s) in which you practiced and had no provisions or conditions that limited your nursing practice during the 5-year certification period.

ACCNS-N-certified nurses must notify AACN Certification Corporation **within 30 day**s if any provisions or conditions are placed on their RN or APRN license(s).

An APRN whose license is encumbered may be eligible for Conditional Certification; see <u>page 2</u>.

# **Renewal Options**

At renewal time you may seek certification renewal by one of 3 options:

- Option 1 1,000 Practice Hours and 150 CE Points
- **Option 2** 1,000 Practice hours, 25 Pharmacology CE and Exam

Option 3 - 150 CE Points and Exam

For complete information refer to the ACCNS-N Renewal Handbook online at <a href="https://www.aacn.org/certhandbooks">www.aacn.org/certhandbooks</a>.

<sup>&</sup>lt;sup>1</sup> Includes District of Columbia and U.S. territories of Guam, Virgin Islands, American Samoa and Northern Mariana Islands

# **Neonatal CNS (Wellness Through Acute Care)**

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# **Overview**

The ACCNS-N certification program is based on competencies from nationally recognized organizations such as the National Association of Clinical Nurse Specialists and the American Association of Colleges of Nursing, as well as a study of practice, also known as a job analysis, that is conducted at least every 5 years. This study of practice validates the knowledge, skills and experience required for safe and effective advanced practice as a neonatal CNS. The test plan is constructed using entry-level competencies. All competencies are listed on pages 5-10 of the test plan.

The test plan, which provides an outline of exam content, is developed by an expert CNS panel based on the results of the study of practice. The organizing framework for all AACN Certification Corporation exams is the AACN Synergy Model for Patient Care™. Please refer to pages 20 and 21 for more about the Synergy Model.

Following are the major content dimensions of the neonatal CNS, wellness through acute care, (ACCNS-N) exam, which are part of the test plan:

- ▶ **Patient Care Problems** validated by the study of practice as those regularly encountered by the entry-level CNS Refer to pages 2-3 for the list of patient care problems.
- ➤ **Skills and Procedures** validated by the study of practice as those pertinent to the entry-level CNS. In addition to classifying exam items according to the specified patient care problems and related validated competencies, items may require an understanding of skills and procedures pertinent to neonatal CNS practice.

  Refer to page 4 for the list of skills and procedures.
- Validated Competencies include Clinical Judgment, Advocacy/Moral Agency, Caring Practices, Response to Diversity, Facilitation of Learning, Collaboration, Systems Thinking and Clinical Inquiry.
   Refer to pages 5-10 for a complete listing of the ACCNS-N Validated Competencies.

# **Integrated Concepts**

To meet criteria for regulatory sufficiency, APRN certification exams must test national practice standards and core competencies for the role and patient population(s) being certified. The ACCNS-N exam incorporates the following standards and competencies:

- American Association of Critical-Care Nurses. Stahl M, ed. *Scope and Standards for Acute Care Clinical Nurse Specialist Practice*; 2022.
- American Nurses Association and National Association of Neonatal Nurses. *Neonatal Nursing: Scope and Standards of Practice*; 2021.
- National Association of Clinical Nurse Specialists. Statement on Clinical Nurse Specialist Practice and Education;
   2019.
- National Association of Neonatal Nurses. *Advanced Practice Registered Nurse: Role, Preparation, and Scope of Practice*; 2014.

# **Neonatal CNS (Wellness Through Acute Care)**

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Applies to exams taken on and after January 31, 2024.

#### I. CLINICAL JUDGMENT (69%)

Validated Competencies are detailed on pages 5-10 of this test plan.

## 1A. Cardiovascular (7%)

- 1. Cardiac surgery
- 2. Congenital heart defects
- 3. Dysrhythmias
- 4. Heart failure
- 5. Patent ductus arteriosus (PDA)
- 6. Pulmonary edema

# 2A. Respiratory (10%)

- 1. Acute respiratory failure
- 2. Air-leak syndromes (e.g., pneumothorax, pulmonary interstitial emphysema [PIE], pneumopericardium, pneumomediastinum)
- 3. Airway obstruction
- 4. Apnea of prematurity
- 5. Aspirations (e.g., meconium aspiration)
- 6. Bronchopulmonary dysplasia
- 7. Congenital abnormalities
- 8. Exacerbation of chronic lung disease
- 9. Persistent pulmonary hypertension of the newborn (PPHN)
- 10. Pulmonary hemorrhage
- 11. Pulmonary infections
- 12. Respiratory distress syndrome (e.g., surfactant deficiency)
- 13. Thoracic surgery (e.g., pneumonectomy, lobectomy, tracheal surgery)
- 14. Transient tachypnea of the newborn

# **Endocrine/Hematology/Gastrointestinal/Renal/Integumentary**

# 3A. Endocrine (3%)

- 1. Hyperglycemia
- 2. Hypoglycemia
- 3. Infant of diabetic mother

## 3B. Hematology/Immunology/Oncology (5%)

- 1. Blood group incompatibilities
- 2. Coagulopathies (including thrombocytopenia)
- 3. Hyperbilirubinemia
- 4. Polycythemia

#### 3C. Gastrointestinal (5%)

- 1. Bowel infarction/obstruction/perforation
- 2. Gastroesophageal reflux
- 3. GI abnormalities
- 4. GI motility disorders
- 5. GI surgeries
- 6. Hepatic failure
- 7. Feeding intolerance
- 8. Necrotizing enterocolitis

# 3D. Renal / Genitourinary (5%)

- 1. Acute kidney injury
- 2. Congenital renal/genitourinary abnormalities
- 3. Infections

#### 3E. Integumentary (4%)

- 1. Congenital abnormalities
- 2. Dermatologic disorders
- 3. Infectious skin disorders
- 4. Pressure injuries
- 5. Skin integrity protection for extremely low birth-weight infants
- 6. Wounds (surgical and nonsurgical)

## Musculoskeletal/Neurology/Psychosocial

#### 4A. Musculoskeletal (3%)

- 1. Bone disease (e.g., osteopenia, osteogenesis imperfecta)
- 2. Congenital anomalies
- 3. Functional issues (e.g., immobility, birth injuries)
- 4. Infections (e.g., cellulitis)

# **Neonatal CNS (Wellness Through Acute Care)**

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## 4B. Neurology (5%)

- 1. Congenital neurological abnormalities
- 2. Encephalopathy
- 3. Head and brain trauma/injury
- 4. Hydrocephalus
- 5. Hypoxic ischemic encephalopathy
- 6. Increased intracranial pressure
- 7. Intracranial hemorrhage/intraventricular hemorrhage
- 8. Neurologic infectious diseases
- 9. Periventricular leukomalacia
- 10. Seizure disorders
- 11. Stroke

# **4C.** Psychosocial/Behavioral/Cognitive Health Issues (5%)

- 1. Behavioral state (e.g., NPASS, Brazelton, stress in extremely low birth weight infants)
- 2. Developmental care (e.g., skin to skin care)
- Maltreatment (abuse/neglect/medical nonadherence)

# Factors Influencing Wellness and Health Status/ Multisystem

# 5A. Factors Influencing Health Status (risk assessment, prevention and wellness) (7%)

- 1. Discharge planning
- 2. Feeding (e.g., breast, cue-based, techniques)
- 3. Monitoring anthropometric measurements
- 4. Safety (e.g., safe sleep)
- 5. Screening (e.g., hearing, CCHD, metabolic, angle tolerance testing, ROP)
- 6. Wellness promotion (e.g., normal variants, immunizations)
- 7. Developmental care (developmental milestones)
- 8. Social determinants of health (e.g., access to care, socioeconomic factors, health literacy)
- 9. Population health (e.g., lack of prenatal care, food deserts)
- 10. Team-based care
- 11. Genetics (e.g., metabolic screening, recurrence risk, life planning)

## 5B. Multisystem (10%)

- 1. Acid-base imbalances
- 2. End-of-life issues
- 3. Fluids, electrolytes and nutrition
- 4. Hospital acquired conditions (e.g., CLABSI, CAUTI, VAP/VAE)
- 5. Hypovolemic shock
- 6. latrogenic drug exposed newborn
- 7. Inborn errors of metabolism
- 8. Infectious diseases (e.g., congenital viral, bacterial, hospital acquired infections)
- 9. Low birth weight/prematurity (including late preterm populations)
- 10. Maternal drug exposed newborn
- 11. Maternal-fetal complications (e.g., HELLP, preeclampsia)
- 12. Pain
- 13. Palliative care issues
- 14. Sensory impairment (e.g., hearing loss)
- 15. Sepsis/septic shock and MODS
- 16. Thermoregulation
- 17. Transition to extrauterine life
- 18. Antimicrobial stewardship

#### II. PROFESSIONAL CARING & ETHICAL PRACTICE (31%)

Validated Competencies are detailed on pages 5-10 of this test plan.

# Advocacy/Caring Practices/Response to Diversity/ Facilitation of Learning

- 6A. Advocacy/Moral Agency (4%)
- 6B. Caring Practices (4%)
- 6C. Response to Diversity (4%)
- **6D. Facilitation of Learning (4%)**

## **Collaboration/Systems Thinking/Clinical Inquiry**

- 7A. Collaboration (5%)
- 7B. Systems Thinking (5%)
- 7C. Clinical Inquiry (5%)

The sum of these percentages is not 100 due to rounding. Order of content does not necessarily reflect importance.

# **Neonatal CNS (Wellness Through Acute Care)**

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# **Skills and Procedures**

In addition to classifying exam items according to the specified patient care problems and identifying related competencies on the following pages, items <u>may</u> require an understanding of skills and procedures pertinent to the neonatal CNS. The study of practice sought to determine whether selected skills and procedures are performed and important to the neonatal CNS. If applicable to assessment of knowledge of the patient care problem, the following skills and procedures may be incorporated within items. This list is not intended to be all inclusive. Common nursing skills and procedures may also be included in the exam content.

#### Cardiovascular

- Direct cardiopulmonary resuscitation
- Interpret ECG rhythms
- · Interpret hemodynamic values
- Interpret noninvasive hemodynamic values
- · Manage patients with arterial catheters

#### Respiratory

- · Manage patients receiving surfactant therapy
- Manage patients receiving mechanical ventilation
- Manage patients receiving nitric oxide
- Manage patients receiving noninvasive ventilatory support
- Manage patients with chest tubes

#### **Endocrine**

· Glycemic management

#### Hematology/Immunology/Oncology

Manage patient with exchange transfusions

#### **Integumentary**

- Consult for patients with ostomy devices
- Consult for patients with/at risk for pressure areas
- · Consult for patients requiring wound care

#### **Neurology**

- Consult for patients with cerebral oxygenation monitoring devices
- · Manage patients with therapeutic hypothermia

#### **Behavioral**

- De-escalation techniques (e.g., crisis prevention)
- Manage patients with neonatal abstinence syndrome
- · Provide trauma informed care

#### Multisystem

- Interpret diagnostic imaging
- Interpret laboratory results
- Pandemic management

# **Neonatal CNS (Wellness Through Acute Care)**

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# **Validated Competencies**

In addition to classifying exam items according to the previous specifications, each item is written to reflect one of the following competencies validated through the study of practice. These competencies are eligible for assessing knowledge of content.

#### **CLINICAL JUDGMENT**

#### **Core CNS Competencies**

- Synthesizes assessment findings using advanced knowledge, expertise, critical thinking and clinical judgment to formulate differential diagnoses
- Prescribes medications, therapeutics, diagnostic studies, equipment and procedures to manage the health issues of patients
- Provides expert specialty consultation to nurses related to complex patient care needs
- Conducts a comprehensive health assessment in diverse care settings including psychosocial, functional, physical and environmental factors
- Provides expert consultation based on a broad range of theories and evidence for patients with complex healthcare needs

- Conducts a comprehensive history and assessment of the neonate/infant and family, using known or innovative evidence-based techniques, tools and direct and indirect methods
- Develops a comprehensive database (both disease and non-disease factors) that includes pertinent history, diagnostic tests and physical assessment
- Distinguishes between normal, variations of normal and abnormal findings, including developmental, physiologic and behavioral states
- Assesses the effects of interactions among the neonate/infant, family and the community on the patient/family dyad
- Identifies potential risks to patient safety, the patient/family dyad and quality of care
- Identifies evidence-based clinical practice guidelines to guide screening, diagnosis and management of the neonate/infant
- Develops a plan of care and interventions according to established protocol and current standards of care
- Develops a plan of care based on scientific evidence and practice guidelines

- Develops interventions to promote patient safety, strengthen the patient/family dyad and improve the quality of care
- Provides developmentally appropriate care
- · Applies principles of pain management to care
- Applies end-of-life and palliative care principles to the delivery of care
- Uses therapeutic communication skills with special attention to the capacities and needs of the neonate/infant and family
- Prescribes nursing therapeutics, pharmacologic and nonpharmacologic interventions, diagnostic measures, equipment, procedures and treatments to meet the needs of neonates/infants, families and groups, in accordance with professional preparation, institutional privileges, state and federal laws and practice acts
- Provides direct care to selected neonates/infants and families based on the needs of the patient and the CNS's specialty knowledge and skills
- Recognizes opportunities for staff development of programs and process changes to improve costeffectiveness
- Recognizes nursing practice/performance improvement opportunities with consideration of safety, timeliness, effectiveness, efficacy and patient-centered care at the unit level
- Aligns nursing practice with evidence-based information to achieve nurse-sensitive outcomes for the unit population
- Participates in unit-based planning for data collection and quality monitoring
- · Develops and implements audits at the unit level
- Recognizes when evidence-based guidelines, policies or procedures fail to meet the needs of the individual neonate/infant and family
- Assesses the needs, preferences and strengths of the neonate/infant and family and recommends a healthcare plan in order to optimize health outcomes

# **Neonatal CNS (Wellness Through Acute Care)**

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# **Validated Competencies**

- Tailors the plan of care as indicated
- Communicates to the healthcare team the rationale for any deviations from the established guidelines, policies, or procedures
- Applies data collected from consultations to plan or revise care for the individual patient or family

#### **ADVOCACY/MORAL AGENCY**

## **Core CNS Competencies**

- Facilitates patient and family understanding of the risks, benefits and outcomes of proposed healthcare regimens to promote informed, shared decisionmaking
- Facilitates resolution of ethical conflicts in complex patient care situations
- Analyzes the ethical impact of scientific advances, including cost and clinical effectiveness, on patient and family values and preferences
- Advocates for patient's preferences and rights
- Leads efforts to resolve ethical conflict and moral distress experienced by nurses and nursing staff
- Demonstrates stewardship of human and fiscal resources in decision-making
- Advocates for equitable healthcare by participating in professional organizations and public policy activities
- Advocates for ethical principles in protecting the dignity, uniqueness and safety of all

#### **Neonatal CNS Competencies**

- Performs self-assessment to identify own personal values and beliefs that influence the provision of care as an expert clinician
- Seeks feedback from other CNSs, advanced practice registered nurses (APRNs) and other healthcare providers within the unit
- Models professional accountability to others
- Identifies ethical dilemmas unique to neonatal care at the unit level
- Identifies the need to involve the institutional ethics team in finding resolutions to the dilemmas using ethical principles

- Analyzes the medical advances, cost and clinical effectiveness impact on the patient and family and the family's values
- Encourages discussion of ethical issues, dilemmas and principles at the unit level
- Facilitates interdisciplinary teams to address ethical concerns, risk, benefits and outcomes at the unit level
- Facilitates the discussion with families of neonates/ infants regarding a proposed healthcare regimen for their child, to assist parents to make informed decisions, ensuring that families have full access to and understanding of all information related to the current situation of their child
- Participates in unit policy-making committees regarding the equitable treatment of neonates/ infants and their families
- Evaluates hospital policies for their impact on neonatal nursing care practice and neonatal/infant care
- Promotes the role of the CNS to unit leadership, healthcare providers and families within the neonatal unit

## **CARING PRACTICES**

#### **Core CNS Competencies**

- Uses relationship-building communication to promote health and wellness, healing, self-care and peaceful end-of-life
- Engages nurses in reflective practice activities that promote self-awareness and invite peer feedback to improve the practice of nursing
- Fosters a healthy work environment by exhibiting positive regard, conveying mutual respect and acknowledging the contributions of others

- Verbalizes effective communication strategies to include appropriate methods, behaviors and positive interventions
- Evaluates and recommends strategies for using interventions and resources to improve communication that will provide optimal outcomes related to the health and needs of the neonate/ infant and family

# **Neonatal CNS (Wellness Through Acute Care)**

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# **Validated Competencies**

- Seeks applicable input from nursing, medical staff, interdisciplinary teams and support systems necessary for communicating the healthcare status of the neonate/infant and patient's family
- Identifies the family's methods of communication and decision-making
- Identifies gaps in communication between family members and healthcare professionals
- Assesses interactions of family members, including variations in social, cultural and spiritual beliefs that may affect decision-making
- Verbalizes awareness of legal issues affecting neonate/infant care and professional practice regarding ethical decision-making
- Recognizes ethical conflicts and dilemmas and distinguishes ethical decisions to be made
- Applies ethical principles across the spheres of influence
- Facilitates the incorporation of strategies for evidence-based practice specific to the neonatal population into crisis management
- Applies knowledge of and utilization of available resources to assist with crisis management
- Conducts ongoing assessment of the neonatal intensive care unit (NICU) environment, evaluating specifically its family-centeredness and its impact on the care of the patient
- Determines nursing practice and interventions that will promote a family-centered care environment
- Develops a plan to assist in establishing a familycentered care environment
- Promotes policies that further family-centered care
- Identifies ethical and legal issues related to worth and dignity that can affect patient care and professional practice
- Distinguishes differences in abnormal and normal behaviors related to dignity of life and death and demonstrates awareness of palliative care options
- Identifies and communicates family functions and interactions that can affect social, cultural and spiritual variations
- Identifies patient and family support systems
- Interprets the role of the CNS to the patient, family, healthcare team and community

- Develops and preserves a therapeutic relationship and connection with the neonate's/infant's family and other professionals in order to facilitate optimal care and patient outcomes
- Advocates for the neonate/infant and family in the NICLI
- Models behaviors that maintain professional boundaries (e.g., in social media, social life) and assists families in acknowledging and respecting professional boundaries
- Maintains balance between personal and professional life, using appropriate conduct in social media
- Fosters professional accountability to self and others
- Balances the needs of the neonate/infant and family preferences while making choices and decisions related to professional accountability
- Communicates consultation findings to the family and members of the healthcare team and completes the necessary documentation

#### **RESPONSE TO DIVERSITY**

#### **Core CNS Competencies**

- Promotes interventions that prevent the impact of implicit bias on relationship-building and outcomes
- Leads and facilitates change in response to organizational and community needs in a dynamic healthcare environment

- Takes leadership in demonstrating and embracing the value of diversity in caring for neonates/infants and their families as well as working with other healthcare professionals at the unit level
- Performs a self-assessment of cultural values and the impact of those values on the care of the neonate/infant and family
- Recognizes at the unit level the cultural dynamics of individuals from varying cultures and their effect on the care of the neonate/infant and family
- Recognizes cultural diversity and seeks input for adapting care on the basis of the family's culture
- Provides care on the basis of the family's belief system and learns the culture of the healthcare environment

# **Neonatal CNS (Wellness Through Acute Care)**

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# **Validated Competencies**

 Develops culturally sensitive practices that address cultural, ethnic, spiritual and intergenerational or age differences among families and healthcare providers

#### **FACILITATION OF LEARNING**

#### **Core CNS Competencies**

- Designs and employs educational strategies that consider readiness to learn, individual preferences and other social determinants of health
- Provides education and coaching to patients with complex learning needs and atypical responses
- Mentors nurses and nursing staff in using evidencebased practice principles
- Facilitates opportunities for nurses, students and other staff to acquire knowledge and skills that foster professional development

#### **Neonatal CNS Competencies**

- Coaches and advocates for neonates/infants and families based on their culture, religious beliefs and health issues
- Assists families in navigating the healthcare system to obtain the appropriate resources for their needs and problems
- Assesses the educational needs of the neonate's/ infant's family members based on their knowledge of health issues, developmental level, health literacy level, learning needs, readiness to learn, culture and beliefs
- Develops an education plan based on the family assessment
- Assesses neonate's/infant's family to determine the family members' education needs regarding the neonate's/infant's disease processes
- Recognizes the family's learning needs throughout the continuum
- Intervenes when the neonate's/infant's needs are complicated and the family's needs for education exceed those that can be met by the standard teaching content
- Provides educational resources to the neonate's/ infant's family or provides a referral to obtain information if resources are unavailable

- Implements education needs assessment with unit-based staff
- Develops and provides education for staff
- Develops poster presentation or dashboard for unit to share outcomes of CNS practice, with guidance of CNS mentor, as needed
- Shares poster presentation or dashboard at the institution's nursing professional development or quality forums
- Mentors staff RNs and other neonatal providers to acquire new knowledge and skills in their bedside care
- Provides career guidance to staff RNs in their career development via clinical advancement and/or graduate education
- Identifies and implements evidence-based care on projects with the neonatal interdisciplinary team
- Mentors novice members of the neonatal interdisciplinary team on the implementation of evidence-based care
- Identifies communication strengths and weaknesses by using self-reflection and the observation of others
- Models appropriate communication techniques in all interactions
- Engages in conflict-resolution activities, supported by more experienced leaders

#### **COLLABORATION**

## **Core CNS Competencies**

- Uses advanced communication skills in complex situations and difficult conversations
- Employs conflict management and negotiation skills to promote a healthy work environment
- Cultivates a practice environment in which mutual respect, communication and collaboration contribute to safe, quality outcomes
- Uses leadership, team building, negotiation, collaboration and conflict resolution to build partnerships within and across systems and/or communities
- Provides leadership for the interprofessional team in identifying, developing, implementing and evaluating evidence-based practices and research opportunities

# **Neonatal CNS (Wellness Through Acute Care)**

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# **Validated Competencies**

- Disseminates CNS practice and fiscal outcomes to internal stakeholders and the public
- Promotes nursing's unique contributions to advancing health to stakeholders (e.g., the organization, community, public and policymakers)

## **Neonatal CNS Competencies**

- Participates on an interdisciplinary team
- Engages participation from other team members (patients, families, physicians and coworkers)
- Conducts literature searches for clarification of information
- Applies an interdisciplinary approach to the care of neonates/infants and families
- Uses appropriate terminology, format and technology to communicate effectively with team members and discipline experts in problem solving and decision-making
- Communicates the components of the CNS role to colleagues to increase understanding of the role's impact on quality initiatives
- Participates in interdisciplinary projects
- Participates in collaborative efforts to identify costsaving strategies that optimize patient outcomes
- Promotes awareness of evidence-based initiatives and healthcare policies that improve the care and discharge of neonates/infants and families
- Engages and participates constructively with agencies
- Participates in collaborative efforts to improve intraagency and inter-agency communication
- Seeks applicable nursing, medical staff and interdisciplinary input regarding the healthcare plan

#### **SYSTEMS THINKING**

## **Core CNS Competencies**

- Implements customized evidence-based advanced nursing interventions, including the provision of direct care
- Leads and facilitates coordinated care and transitions in collaboration with the patient and interprofessional team
- Advocates for nurses to practice to the full extent of their role in the delivery of healthcare

- Leads nurses in the process of planning, implementing and evaluating change considering intended and unintended consequences
- Mentors nurses to analyze legislative, regulatory and fiscal policies that affect nursing practice and patient outcomes
- Consults with healthcare team members to integrate the needs, preferences and strengths of a population into the healthcare plan to optimize health outcomes and patient experience within a healthcare system
- Leads and participates in systematic quality improvement and safety initiatives based on precise problem/etiology identification, gap analysis and process evaluation
- Leads and participates in the process of selecting, integrating, managing and evaluating technology and products to promote safety, quality, efficiency and optimal health outcomes
- Evaluates system level interventions, programs and outcomes based on the analysis of information from relevant sources

- · Operates primarily at the unit level
- · Identifies population variables at the unit level
- Identifies unit environment variables that influence nursing practice
- Develops constructive relationships across disciplines and departments
- Evaluates unit-level culture and practices for safety implications
- Designs and implements safety systems within the home unit
- Includes staff in the development of safety programs
- Identifies the need for evidence-based practice changes
- Provides summaries of the evidence basis for proposed practice change
- Provides unit leadership members with evidence regarding the impact of personnel practices on safe patient care and workforce maintenance
- Provides evidence-based information on workrelated self-care to staff

# **Neonatal CNS (Wellness Through Acute Care)**

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# **Validated Competencies**

- Provides clinical expertise to collaborative, consensus-based work teams to develop clinical programs related to patient and family care
- Leads unit-level groups to develop standards, policies and procedures related to care of the neonate/infant and family
- Builds partnerships with unit-based staff and leadership
- Identifies general transition resources needed by neonates/infants and families upon discharge
- Evaluates use of products and services for appropriateness and cost/benefit in meeting care needs
- Identifies gaps in care requiring additional resources to achieve identified outcomes
- Communicates the above findings to staff members in collaboration with unit management
- Identifies nurse-sensitive outcomes related to the neonate/infant and family
- Collaborates to establish appropriate metrics for these outcomes
- Collaborates to develop data sources for these metrics
- Collects baseline data for these outcomes
- Identifies evidence-based practices that have a positive impact on nurse sensitive outcomes of interest
- Disseminates baseline outcomes data to unit-based teams and staff
- Disseminates outcomes of system-level change to unit-based teams and staff

#### **CLINICAL INQUIRY**

#### **Core CNS Competencies**

- Designs evidence-based, cost-effective interventions, including advanced nursing therapies, to meet the multifaceted needs of complex patients
- Evaluates impact of nursing interventions on patients' aggregate outcomes using a scientific approach

- Assesses the nursing practice environment and processes for improvement opportunities
- Uses evidence-based knowledge as a foundation for nursing practice to achieve optimal nurse-sensitive outcomes
- Evaluates the outcomes of nursing practice using methods that provide valid data
- Partners with research-focused, doctorally-prepared (i.e. PhD) colleagues to translate, conduct and disseminate research that addresses gaps and improves clinical knowledge and practice

- Recognizes opportunities for improving clinical practice at the unit level
- Identifies research and best practice findings to improve clinical practice at the unit level
- Prioritizes evidence-based practice changes to address safety and quality concerns at the unit level
- Identifies barriers to the implementation of evidence-based practice at the unit level
- Develops and conducts evidence-based project at the unit level
- Recognizes performance improvement opportunities at the unit level
- Aligns nursing practice with evidence-based information to achieve nurse sensitive outcomes for the unit population
- Participates in unit-based planning for data collection and quality monitoring
- Develops and implements audits at the unit level
- Advocates across interdisciplinary teams to promote evidence-based practice, research and translation of research into best practices
- Identifies clinical questions suitable for clinical inquiry
- Conducts literature review for topics pertinent to clinical practice

# **ACCNS-N Sample Questions**

The purpose of the sample questions is to familiarize candidates with the style and format of the certification exam items.

- 1. An infant who has been receiving enteral feedings, TPN and lipids is made NPO due to feeding intolerance. In addition to discontinuing the enteral feedings, the CNS should ensure the infant is prescribed which of the following?
  - A. maintain the TPN and lipids at their current infusion rates.
  - B. increase the rate of the TPN to maintain total fluids.
  - C. add a D10W infusion to maintain total fluids.
  - D. discontinue the TPN and lipids, and administer isotonic IV fluids.
- 2. The CNS has observed both nurses and respiratory therapists instilling saline down ET tubes prior to suctioning. The CNS can encourage evidence-based practice by INITIALLY assisting the staff to
  - A. evaluate their current practice based on the research findings.
  - B. design a unit evaluation to substantiate research results in the literature.
  - C. incorporate research results into the unit's policy and procedure manual.
  - D. disseminate research findings during the next staff meeting.
- 3. A CNS is preparing for a new admission of a fulterm neonate with in utero supraventricular tachycardia (SVT) and suspected hydrops. Upon admission, the neonate's EKG shows SVT with a short PR interval and slow upstroke of the QRS complex. The CNS should prescribe:
  - A. digoxin 30 mcg/kg IV loading dose, then 8 mcg/kg IV every 24 hours
  - B. verapamil 1.5 mg/kg IV every 6 hours
  - C. propanolol 0.15 mg/kg IV every 6 hours
  - D. adenosine 0.1 mg/kg IV push, and repeat every 2 minutes as needed
- 4. A 14-day-old infant who is 26 weeks PMA presents with tachycardia and increasing FiO<sub>2</sub> requirements. The nurses followed the admitting orders to obtain a CBC with blood cultures and then started Gentamicin. The nurse is now consulting the CNS, because the infant is experiencing periods of increased apnea with bradycardia. The CBC results reveal a left shift,

# and the preliminary blood culture report reveals many gram-positive cocci. What should the CNS recommend based on these findings?

- A. continue gentamicin and add ampicillin.
- B. continue gentamicin and add vancomycin.
- C. stop gentamicin and start vancomycin.
- D. stop gentamicin and start ampicillin.
- 5. The CNS is helping a new nurse whose patient has just diede. The infant's parents are distraught. The nurse asks the CNS what to say to them. What is the CNS's best response?
  - A. "You have other children to live for."
  - B. "She is in a better place now."
  - C. "God never gives us more than we can handle."
  - D. "I am very sorry for your loss."
- 6. A 1-week-old presents with lethargy, pale color and a decrease in feeding. Pulses are weak, and th eskin is cool and clammy. The CNS notes the right arm BP remains 129/78, and the lower extremity BP is 70/52. What is the definitive test?
  - A. echocardiogram
  - B. chest x-ray
  - C. magnetic resonance imaging (MRI)
  - D. cardiac catherization
- 7. A common early sequela in infants who survive severe hypoxic ischemic encephalopathy (HIE) includes
  - A. hypertonic muscle tone
  - B. poor suck and swallow coordination
  - C. spontaneous episodes of tachycardia
  - D. generalized seizures

#### **Answers**

- 1. C
- 2. A
- 3. C 4. C
- 5. D
- 6. A
- 7. B

continued

# **ACCNS-N Exam Bibliography**

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Many references are available through AACN; visit www.aacn.org/store.

More current versions may be available.

# **AACN Products for ACCNS-N Exam Preparation**

AACN Certification Corporation does not approve, endorse, or require for eligibility use of any specific exam preparation products.

Product Title/Description	Item #
AACN Core Curriculum for Neonatal Intensive Care Nursing. 6th ed. 2020. Verklan MT, Walden M, Forest S. 800 pages.	<u>128710</u>
Synergy for Clinical Excellence: The AACN Synergy Model for Patient Care. 2nd ed. 2017. Hardin S, Kaplow R. 324 pages.	<u>100149</u>

For more details and to place an order, visit our website at www.aacn.org > <u>Store</u>, or call AACN Customer Care at 800-899-2226, Monday through Friday between 7:30 a.m. and 4:30 p.m. Pacific Time.

# **AACN Synergy Model for Patient Care**

The ACCNS-N certification program is organized using the AACN Synergy Model for Patient Care as a framework. All competencies are from nationally recognized organizations such as the National Association of Clinical Nurse Specialists and the American Association of Colleges of Nursing.

The basic tenet of the Synergy Model is that optimal patient outcomes can be produced through the synergistic interaction between the needs of the patient and the competencies of the nurse. AACN Certification Corporation is committed to ensuring that certified nursing practice is based on the needs of patients. Integration of the AACN Synergy Model for Patient Care into AACN Certification Corporation's certification programs puts emphasis on the patient and says to the world that patients come first.

The Synergy Model creates a comprehensive look at the patient. It puts the patient in the center of nursing practice. The model identifies nursing's unique contributions to patient care and uses language to describe the professional nurse's role. It provides nursing with a venue that clearly states what we do for patients and allows us to start linking ourselves to, and defining ourselves within, the context of the patient and patient outcomes.

# **Patient Characteristics**

The Synergy Model encourages nurses to view patients in a holistic manner rather than the "body systems" medical model. Each patient and family is unique, with a varying capacity for health and vulnerability to illness. Each patient, regardless of the clinical setting, brings a set of unique characteristics to the care situation. Depending on where they are on the healthcare continuum, patients may display varying levels of the following characteristics:

Resiliency	Capacity to return to a restorative level of functioning using compensatory/coping mechanisms; the ability to bounce back quickly after an insult	
Vulnerability	rability Susceptibility to actual or potential stressors that may adversely affect patient outcomes	
Stability	bility Ability to maintain a steady-state equilibrium	
Complexity	Intricate entanglement of two or more systems (e.g., body, family, therapies)	
Resource Availability Extent of resources (e.g., technical, fiscal, personal, psychological and social) the patient/family/cobring to the situation		
Participation in Care	Extent to which patient/family engages in aspects of care	
Participation in Decision-Making	Extent to which patient/family engages in decision-making	
Predictability	A characteristic that allows one to expect a certain course of events or course of illness	

#### **FOR EXAMPLE:**

A healthy, uninsured, 40-year-old woman undergoing a pre-employment physical could be described as an individual who is (a) stable (b) not complex (c) very predictable (d) resilient (e) not vulnerable (f) able to participate in decision-making and care, but (g) has inadequate resource availability.

On the other hand: a critically ill, insured infant with multisystem organ failure can be described as an individual who is (a) unstable (b) highly complex (c) unpredictable (d) highly resilient (e) vulnerable (f) unable to become involved in decision-making and care, but (g) has adequate resource availability.

continued

# **AACN Synergy Model for Patient Care** (continued)

# **Nurse Characteristics**

Nursing care reflects an integration of knowledge, skills and experience necessary to meet the needs of patients and families. Thus, nurse characteristics are derived from patient needs and include:

Clinical Judgment	Clinical reasoning, which includes clinical decision-making, critical thinking and a global grasp of the situation, coupled with APRN skills acquired through a process of integrating formal and informal experiential knowledge and evidence-based guidelines. Includes differential diagnosis.
Advocacy/ Moral Agency	Working on another's behalf and representing the concerns of the patient/family and nursing staff; serving as a moral agent in identifying and helping to resolve ethical and clinical concerns within and outside the clinical setting.
Caring Practices	APRN activities that create a compassionate, supportive and therapeutic environment for patients and staff, with the aim of promoting comfort and healing and preventing unnecessary suffering. Includes but is not limited to vigilance, engagement and responsiveness of caregivers, including family and healthcare personnel. Content in this category includes pain management, infection control, risk assessment and the clinical nurse specialist/patient relationship
Collaboration	Working with others (e.g., patients, families, healthcare providers) in a way that promotes/encourages each person's contributions toward achieving optimal/realistic patient/family goals. Includes initiating referrals, providing consultation and the coordination of inter- and intradisciplinary teams to develop or revise plans of care focused on the concerns of the patient, family or both
Systems Thinking	Body of knowledge and tools that allow the APRN to manage whatever environmental and system resources exist for the patient/family and staff, within or across healthcare and non-healthcare systems. Includes analysis and promotion of cost-effective resource utilization that results in optimal patient outcomes.
Response to Diversity	The sensitivity to recognize, appreciate and incorporate differences into the provision of care. Differences may include, but are not limited to, cultural differences, spiritual beliefs, gender, race, ethnicity, lifestyle, socioeconomic status, age and values.
Facilitation of Learning	The ability to facilitate learning for patients/families, nursing staff, other members of the healthcare team and community. Includes both formal and informal facilitation of learning.
Clinical Inquiry	The ongoing process of questioning and evaluating practice and providing informed practice. Creating changes through evidence-based practice, research utilization and experiential knowledge.

Nurses become competent within each continuum at a level that best meets the fluctuating needs of their population of patients. More compromised patients have more severe or complex needs, requiring nurses to have advanced knowledge and skills in an associated continuum.

#### **FOR EXAMPLE:**

If the patient was stable but unpredictable, minimally resilient and vulnerable, primary competencies of the nurse would be centered on clinical judgment and caring practices (which includes vigilance). If the patient was vulnerable, unable to participate in decision-making and care, and had inadequate resource availability, the primary competencies of the nurse would focus on advocacy and moral agency, collaboration and systems thinking.

Although all eight competencies are essential for contemporary nursing practice, each assumes more or less importance depending on a patient's characteristics. Synergy results when a patient's needs and characteristics are matched with the nurse's competencies.

The certification program is also based on the three spheres of impact in which CNSs operate: Patient, Nurses/Nursing Practice and Organizations/Systems. A sphere of impact identifies the focus of practice activities and target outcomes associated with the area. The certification exam is based on the activities performed by CNSs in connection with the eight nurse characteristics in the context of the three spheres of impact.

Based on the most recent AACN Certification Corporation study of nursing practice, the test plans for our certification exams reflect the Synergy Model as well as findings related to nursing care of the patient population studied (e.g., CNS practice in the care of neonatal patients, covering the spectrum of wellness through acute care).

For more information about the AACN Synergy Model for Patient Care visit www.aacn.org.

# **Educational Eligibility Form**

# **ACCNS-N Certification for Neonatal Clinical Nurse Specialists**

To be completed by Program Director and returned to AACN Certification Corporation.

CANDIDATE NAME					
Last  CANDIDATE EMAIL	I	First	MI	N	1aiden
NEONATAL CLINICAL NURSE SPECIALIST PR	OGRAM INFORM	MATION			
SCHOOL NAME					
SCHOOL ADDRESS					
PROGRAM TYPE ☐ Neonatal CNS ☐ Other (spe	cify):				
<b>DEGREE AWARDED</b> ☐ Master's ☐ DNP ☐ Po	st-Graduate Certif	icate			
PROGRAM START DATE		GRADIIA	ATION DATE		
(MM/DD/YY)		GRADO	TION DAIL	(MM/DD	)/YY)
PROGRAM DESCRIPTION - for time period applic	ant was in program	1			
DIDACTIC	Course Number(s)	☑ If Transfer Credit	Course Type * D or D/C	Number of Credit Hours	*Course Type: D: Didactic C: Clinical
Advanced Pathophysiology					<b>D/C</b> : Didactic/Clinical
Advanced Pharmacology					
Advanced Physical Assessment					
Neonatal Wellness through Acute Care					
CLINICAL	Course Number(s)	☑ If Transfer Credit	Course Type * C or D/C	Number of Credit Hours	Number of Clinical Hours
Neonatal Wellness through Acute Care					
		<del>│</del>			
Tot	<b>al number</b> of supe knowledge and		<i>al</i> clock hours dire he neonatal clinica	•	
The following statements apply to the advanced prac	tice education prog	gram comple	eted by the candida	ate (check all tha	t apply):
A portion of the total clinical hours within the	program focused	on wellness	in the neonatal pat	ient population.	
$\ \square$ A portion of the total clinical hours within the	program focused of	on acute car	e in the neonatal p	atient populatior	1.
My signature on this form attests to the fact that at the and checked above. I understand that AACN Certificati					
Program Director Signature	Pl	hone		Date	
Printed Name	Ei	mail			

This completed form with an original signature may be submitted to AACN Certification Corporation via mail to: AACN Certification Corporation, 27071 Aliso Creek Road, Aliso Viejo, CA 92656.



**STAPLE CHECK HERE** 

# **ACCNS-N Exam Application**

PLEASE PRINT CLEARLY. PROCESSING WILL BE DELAYED IF INCOMPLETE OR NOT LEGIBLE.

1.	REGISTRATION IN			Y. PROCESSING WILL BE RS ON YOUR GOVERNM		ETE OR NOT LEGIBLE.  IS REQUIRED FOR EXAM.			
AAC	N CUSTOMER:		RN/APRN	LICENSE:					
		Number I	Exp. Date	Nu	mber Stat	e Exp. Date			
LEG	SAL NAME:	Last	First		MI	Maiden			
нο	ME ADDRESS:	LdSt	FIISt		IVII	Maidell			
	ME ADDRESS.			City	Stat	e Zip			
EM	AIL:			HOME PHONE:					
EMI	PLOYER NAME:			BUSINESS PHONE:					
EM	PLOYER ADDRESS:			City	Stat	7in			
				City	Stat	e Zip			
2.	AACN MEMBERS								
	I would also like to	join/renew/extend n	ny AACN membershi	p at this time and se	lect member pricing	g for my exam fees:			
	(check <b>one</b> box o								
				\$					
		ACN membership\$148 ACN membership\$200							
	•	•		•					
						Journal of Critical Care®,			
			haritable contributions f	for tax purposes, but may	be deducted as a busir	ness expense in keeping			
	with Internal Revenue	Service regulations.				_			
	Member exam f	ee (\$270) + 1-year M	lembership (\$78) =	Savings of \$32 over	Nonmember fee	Membership Fee			
						<b>\$</b>			
3.	EXAM FEES								
		initial e	5	Datas	A.F	Exam Fee:			
	ACCNS-N	Initial E		Retes		\$			
		AACN Member	Nonmember	AACN Member	Nonmember				
	Check <b>one</b> box only	□ 270	□ \$380	□ \$210	□ \$315	Total Payment:			
	☐ Check this box if yo	ou've attached a reques	t and supporting docur	mentation for special te	sting accommodations	s. \$			
	•	·	0	·	J				
4.	<b>PAYMENT INFOR</b>	MATION - application	on must be accompa	nied by payment					
	PAYMENT INFORMATION - application must be accompanied by payment  ☐ Check or money order attached – payable to AACN Certification Corporation. U.S. funds only.								
	Bill my credit card: □ Visa □ MasterCard □ American Express □ Discover Card								
	Credit Card #	ard # Exp. Date (mm/yy)							
	Name on Card			_ Signature					
	Amount Billed \$	Address o	of Payor (if different tha	n applicant)					
	☐ Please do not incl	ude my name on lists s	old to other organizati	ons.					

This application form may be photocopied and is also available online at <a href="www.aacn.org/certification">www.aacn.org/certification</a>.

Please complete pages 2 & 3 of application.



NAME:

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# **ACCNS-N Exam Application**

**AACN CUSTOMER #:** 

	Last	First	MI				
5.	DEMOGRAPHIC INFORMA	TION					
	Check <b>one</b> box in each categor	Check <b>one</b> box in each category. Information used for statistical purposes and may be used in eligibility determination.					
	Primary Area Employed	☐ Subacute Care (28)	☐ Technician (21)	☐ Home Health (13)			
	☐ Acute Hemodialysis Unit (21)	☐ Surgical ICU (07)	☐ Unit Coordinator (22)	☐ Long-Term Acute Care Hosp. (16)			
	☐ Burn Unit (13)	☐ TeleICU (37)	☐ Other - specify below	☐ Military/Government Hospital (04)			
	☐ Cardiac Rehabilitation (26)	☐ Telemetry (20)		☐ Non-Academic Teaching Hosp. (14)			
	☐ Cardiac Surgery/OR (36)	☐ Trauma Unit (11)	(99)	Registry (10)			
	☐ Cardiovascular/Surgical ICU (09)	☐ Other – specify below		☐ Self-Employed (09)			
	☐ Catheterization Lab (22)		Highest Nursing Degree	☐ State Hospital (06)			
	☐ Combined Adult/Ped. ICU (23)	(99)	☐ Associate's Degree	☐ Travel Nurse (15)			
	☐ Combined ICU/CCU (01)		☐ Bachelor's Degree	☐ University Med. Ctr. (03)			
	☐ Coronary Care Unit (03)	Primary Position Held	☐ Diploma	☐ Other – specify below			
	☐ Corporate Industry (24)	☐ Academic Faculty (07)	☐ Doctorate				
	☐ Crit. Care Transport/Flight (17)	☐ Acute Care Nurse Practitioner (09)	☐ Master's Degree	(99			
	☐ Direct Observation Unit (39)	☐ Bedside/Staff Nurse (01)					
	☐ Emergency Dept. (12)	☐ Case Manager (39)	Ethnicity	Number of Beds in Institution:			
	☐ General Med./Surg. Floor (18)	Charge Nurse (45)	African American (02)	Number of Beas in Institution:			
	☐ Home Care (25)	Clinic Nurse (40)	☐ Asian (05)				
	☐ Intensive Care Unit (02)	☐ Clinical Coordinator (44)	☐ Hispanic (03)				
	☐ Interventional Cardiology (31)	☐ Clinical Director (04)	☐ Native American (04)	Variable formation and in Normation			
	☐ Long-Term Acute Care (27)	☐ Clinical Nurse Specialist (08)	☐ Pacific Islander (06)	Years of Experience in Nursing:			
	☐ Medical Cardiology (34)	☐ Corporate/Industry (11)	☐ White/Non-Hispanic (01)				
	☐ Medical ICU (04)	☐ Hospital Administrator (38)	☐ Other – specify below				
	☐ Medical Surgical ICU (35)	☐ Internist (37)	()	Years of Experience in Acute/Critical			
	☐ Neonatal ICU (06)	☐ Legal Nurse Consultant (47)	(99)	Care Nursing:			
	☐ Neuro./Neurosurgical ICU (10)	☐ Manager (03)	5 - 6- W w	care nursing:			
	☐ Oncology Unit (19)	□ Nurse Anesthetist (02)	Primary Type of Facility in Which				
	☐ Operating Room (15)	□ Nurse Educator (46)	Employed				
	Outpatient Clinic (29)	□ Nurse Midwife (13)	☐ College/University (08)	Date of Birth: (mm/dd/yy):			
	Pediatric ICU (05)	□ Nurse Practitioner (05)	Community Hospital (Nonprofit) (01)	Date of Birtii. (IIIII/du/yy).			
	☐ Private Practice (32)	Outcomes Manager (42)	Community Hospital (Profit) (02)				
	☐ Progressive Care Unit (16)	☐ Physician (16)	Corporate/Industry (11)				
	Recovery Room/PACU (14)	☐ Physician Assistant (17)	County Hospital (07)	Gender:			
	Respiratory ICU (08)	Researcher (18)	☐ Federal Hospital (05)	**···			
	☐ Stepdown Unit (30)	☐ Respiratory Therapist (19)	☐ HMO/Managed Care (12)	☐ Male ☐ Female ☐ Non-binary			

#### 6. HONOR STATEMENT

Complete the ACCNS-N Honor Statement on page 25 and submit with application.

#### 7. ADDITIONAL REQUIRED DOCUMENTATION

- · Official, final transcripts for all graduate-level nursing coursework showing degree/date conferred
  - Secure, electronic transcripts may be emailed *directly from the school* to <u>APRNcert@aacn.org</u>.
  - Mailed transcripts must be sent to AACN in a sealed envelope directly from the school.
- Educational Eligibility Form completed/signed by your program director
   AACN will reach out to your program director to request completion of the form via AACN's online Portal, OR a printed form (see page 22) with original signature may be submitted with your application. Your school may email the form directly to APRNcert@aacn.org.
- **8. SUBMIT WITH PAYMENT TO** AACN Certification Corporation, 27071 Aliso Creek Road, Aliso Viejo, CA 92656-3399 Retest applications may be faxed to 949-362-2020.

NOTE: Allow **1 to 4 weeks** from the date received by AACN Certification Corporation for application processing. If your school must be contacted to verify eligibility or application is incomplete, processing may be delayed.

Questions? Please visit <a href="https://www.aacn.org/certification">www.aacn.org/certification</a>, email <a href="https://www.aacn.org/certification">APRNcert@aacn.org</a> or call us at 800-899-2226.



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# **ACCNS-N Exam Honor Statement**

PROCESSING WILL BE DELAYED IF INCOMPLETE OR NOT LEGIBLE.

NAME:	AACN CUSTOMER #:				
Last	First	MI			
		have read and understand the extended the extended the Certification Extend			
_	poration to contac	ends upon successful completion t my graduate nursing program to	of the specified requirements. I o verify my educational eligibility		
LICENSURE: I possess a current	, unencumbered U	.S. RN or APRN license. My	(state)		
nursing license		(number) is due to expire	(date).		
in which I am practicing and has that I must notify AACN Certifica	no provisions or co tion Corporation <b>w</b>	ojected to formal discipline by the onditions that limit my nursing pr ithin 30 days if any provisions on nay be eligible for Conditional Ce	ractice in any way. I understand roonditions are placed against my		
	on. If selected for a	r is subject to audit, and failure to udit, I understand that switching Points is not an option.			
<b>ETHICS</b> : I understand the impor of Ethics for Nurses.	tance of ethical sta	ndards and agree to act in a man	ner congruent with the ANA Code		
		n Corporation to release my ACCN State Board(s) of Nursing to v that my ACCNS-N exam pass/fail	which I have applied or intend to		
exam scores by content area wil			status and a breakdown of my		
of the exam confidential and no	disclose or discus	s specific exam content with anyo	ny agreement to keep the contents one except AACN Certification ause for revocation of certification.		
RETAKE POLICY:					
I understand that I may apply fo and that after 12 months signing			mes in a rolling 12-month period,		
		ained in this application is accura tement and meet the eligibility r	te and submitted in good faith. My equirements as outlined.		
Applicant's Signature:			Date:		

Please allow 1 to 4 weeks from the date received by AACN Certification Corporation for processing of your application.

