



## **2014 NCC Content Validation Task Analysis Study**

### **Low Risk Neonatal Nursing Examination**

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## 1. Background and Overview

The purpose of the content validation/task analysis study is to describe the domain of practice, knowledge, skills and abilities that are essential to the low risk neonatal nurse (LRN).

The data collected from the content validation/task analysis study is used to identify content to be included in the INPT certification examination for inpatient obstetric nurses and to insure skills, knowledge and abilities of those engaging in inpatient obstetric nursing practice are reflected in the NCC testing process.

The focus of the Low Risk Neonatal Nursing certification is to demonstrate the special knowledge of the low risk neonatal nurse.

NCC content team members, a geographically diverse group representing both academic and clinical practice venues, were charged with development of the tasks as associated with existing exam content outlines. NCC leadership for content teams can be found at <http://www.nccwebsite.org/NCC-Leadership.aspx>.

In addition, over the past year NCC delivered a post-exam feedback survey to LRN examinees to evaluate that the content on the exam reflects their current practice. All LRN examinees received the post-exam survey regardless of pass/fail results.

## 2. Development process

With psychometric consultation, the knowledge competencies and tasks/skills/interventions identified by the content team were formulated into a survey instrument. Questions asked for each knowledge component or domain for query centered on mother/fetus, newborn, general management, family integration and professional issues including:

- Demographics and Practice Characteristics of certified Low Risk Neonatal Nurses
- Frequency and Criticality of Patient Care
- Skills

In preparation of survey development the content team reviewed the current NCC competency statements and general and detailed exam content outlines for the LRN examination. The content team identified essential knowledge, skills and abilities for this core examination and identified competencies and practice skills of the low risk neonatal nurse. General discussion on how current competency statements and content included in the exam outline related to the professional literature was also initiated. Based on this discussion, the content team prioritized the list of tasks/skills. In addition to this the following documents were reviewed:

- Standards for Professional Nursing Practice in the Care of Women and Newborns, 7<sup>th</sup> Edition, 2009 AWHONN
- Scope and Standards of Advanced Practice Registered Nurses, American Nurses' Association (ANA)
- Neonatal Nursing: Clinical Competencies and Educational Guide, 6th Edition, AWHONN
- Pertinent literature review

The LRN Content Team based on the document review identified competencies and practice skills of the low risk neonatal nurse. General discussion on the recently developed competency statements and content included in the exam outline was also initiated. After general discussion, the related tasks and skills associated with the specific content area were identified and prioritized.

### **3. Data Collection**

Proprietary software was used for survey deployment and aggregate data compilation from survey responses. All NCC certified low risk neonatal nurses with a valid email address (21817) were notified by email contact and a general invitation to participate was posted on the NCC website. To encourage participation constituents could earn CE if they completed the survey. This resulted in more than a 100% increase in survey responses from the 2009 survey. 517 participated in the current content validation survey, which provided a 21% response rate.

A copy of the content validation survey can be found in Exhibit 1 and the survey results can be found in Exhibit 2. New items included in the content validation survey were validation of the core competency statements for the LRN examination and invitations to survey takers to identify content or competencies that were not addressed in the survey.

Additionally, post-exam surveys were sent to recent examinees asking them to rate the applicability of the content tested to their practice. Participation was voluntary and was offered to all who took the exam regardless of pass or fail outcomes. A copy of the post-exam feedback survey can be found in Exhibit 3.

### **4. Survey Results and Review**

Overall, the content validation analysis demonstrated extremely high ratings of the content included on the exam and the stated competency statements. The survey results can be found in Exhibit 2. Survey demographics reported that 94% of low risk neonatal nurses who took the survey work in a hospital setting designated most of the time as level II (44%) or Level III (29%). Eighteen percent of responders held either a masters or doctoral degree while 50% held a BSN and 32% had an Associate or diploma degree. Eight-two percent provide direct patient care with others mostly in education (10%) or management (5%). The majority of participants had over 15 years of practice (58%) and on average worked 35-45 hours a week (59%). Participants represented a broad demographic region from 50 different states. Certification was reported to be required by the employer for 6% of low risk neonatal nurses and encouraged by employers in 56%. A financial incentive for certification was reported by 31% of respondents and 62.5% reported that the attained certification for personal reasons.

In reviewing the survey results the first area on the survey was the core competency review. It was found that 94-99% of survey takers felt the core competencies were essential and either a frequent expectation or critical to patient outcomes for low risk neonatal nurses in their practice. Ninety-nine percent felt the competencies represented the low risk neonatal nurses practice. The majority of content were considered essential by participants and the survey was rich in comments and thought. Some items may have been considered essential but were rarely seen or done but continue to be low volume high risk areas where knowledge is essential. The survey results underscore a few items that were discussed by the content team:

- Limited management of cardiac patients and surgical patients for low risk neonatal nurses and should testing focus on immediate management and transfer
- Skills competencies related to screenings such as congenital heart disease, drug and also hearing
- Care of the late preterm infant
- Limited use of drugs such as antacids, GI motility, anticoagulants, anticonvulsants, ativan, diuretics, HIV/aids therapies, respiratory stimulants,

Some core content was seen as essential but was rarely or never seen in 50-75% of respondents. The content team discussed these in more detail and in included the following:

- In utero teratogen exposure
- Congestive heart failure
- Cystic fibrosis
- PCR
- T4 assay
- Failure to thrive

In addition to the content validation, over the past year, we have surveyed new examinees to evaluate how the exam reflected on their practice and 36 completed the surveys. During this time frame 197 took the examination which provided us with a 18% response rate for the post-exam survey. The post-exam survey results can be found in Exhibit 3. Of those completing the post-exam survey 25% had been practicing 2-5 years and 36% for more than 20 years. Seventy-eight percent of respondents are working full time providing direct patient care (92%) working mostly in level II hospitals (72%). Eighty-one percent of examinees reported that they were obtaining certification for professional self development. Only 69% felt the maternal/fetal content area was about right on the exam with 28% thinking it was overrepresented. The majority of examinees felt the remaining content areas were about right (>84%) and reflected what is applied to their daily practice (> 78%).

Both the post-exam and the content validation surveys were reviewed in detail at the LRN content team meeting on January 19, 2015. The reviews were used to align the exam content with current low risk neonatal nursing practice. Based on survey response there was no need to change the current LRN Grid. After much discussion it was agreed that the following content was either not core or was no longer routinely done and should be removed from the exam. These included:

- Lung maturation studies
- Fungal Infections
- Human Papilloma Virus
- Congestive Heart Failure
- Stool cultures
- T4 Assay
- Failure to thrive
- Plugged ducts
- ITP
- Pelvic Thrombosis
- Drugs: Anticoagulants, Diuretics, Ritodrine

In addition it was agreed that based on the survey results the following should be added to the exam outline if not already part of the exam. These included:

- GBS screening
- Maternal Depression and Anxiety
- Later Preterm Infants
- Herpes
- Shingles
- Ductal Dependent Lesions
- Pierre Robin
- Fat necrosis
- Plagiocephaly
- Cooling for asphyxia

- G6PD deficiency
- Hearing screening
- Car Seat Testing
- CHD screening
- Drug screening
- Colostrum
- TCH and breast milk
- Donor Milk
- Drugs: Phenobarb, Prostaglandins, oral sucrose, oral Vitamin K

Overall participants believe that the exam reflects their practice and the amount of content on the examination is appropriate to their practice as well. The majority of participants felt that the core competencies were essential and a frequent expectation or critical to patient outcomes for those who practice as low risk neonatal nurses.

### Introduction

NCC is conducting a content validation study for the Low Risk Neonatal Nursing exam. This is based on previous results of past content validations, review of standards of practice, professional literature and research.

Your responses as a Certified Low Risk Neonatal nurse, when compiled with the responses of your peers, will impact the test outline and drive new questions for future NCC examinations. Your input will be invaluable to the content team who is responsible for test development to insure the examination continues to reflect current practice in the specialty.

Upon your completion of the Low Risk Neonatal Nursing content validation survey, NCC will award one (1) CE hour in the Professional Practice Core Competency. Your CE hour will be automatically recorded into your online maintenance application within 12 hours. There will be no CE certificate issued as the credit is given in recognition of your participation in this content validation process and is not transferable for other purposes.

Thank you for your help with this process.

**NCC**

### Low Risk Neonatal (LRN) Nursing Core Competencies

The options that should be considered for each competency include

- This competency is essential and is a frequent expectation of the LRN nurse
- This competency is essential and critical to positive patient outcomes for the LRN nurse but not often performed
- This competency is not essential
- This is not an expected competency of the LRN nurse

**Essential** - an expected competency that a LRN nurse should possess no matter the educational background, practice setting, patient population focus or years of experience.

	Essential and is a frequent expectation of the LRN nurse	Essential and critical to positive patient outcomes for the LRN nurse but not often performed	Not essential	Not expected of the LRN nurse
<b>Demonstrate knowledge of maternal, fetal, and neonatal anatomy, physiology, pharmacology and nutrition</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Identify antepartal, intrapartal and postpartal risk factors related to the mother, fetus and neonate</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Systematically assess the neonate, the family and their environment</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Interpret assessment data to determine health status of the mother, fetus and neonate</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Collaborating as a member of a multidisciplinary health care team, develop, implement and evaluate an individualized plan of care to facilitate the neonate's adaptation to extrauterine life and to promote the health of the neonate</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Apply knowledge of general concepts of care that determine and promote the health of the postpartal family in the hospital, in ambulatory settings and in the home environment</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Educate families about the biophysical, psychosocial and environmental needs of the neonate</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Demonstrate knowledge of factors that influence the integration of the neonate into the family and community</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Demonstrate knowledge of professional issues relative to maternal/neonatal care</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

### Are these competencies in your experience

- A. Representative of the practice of the LRN nurse
- B. Not Representative of the practice of the LRN nurse

# Exhibit 1 Low Risk Neonatal Nursing (LRN)

If you selected B, please comment on your rationale for your opinion.

Are there any additional competencies that are not represented?

## Mother/Fetus

### Assessment & Evaluation Of Intrauterine Environment

Listed below are a variety of fetal assessment procedures whose results potentially affect the outcome of the fetus and newborn. Please indicate the frequency in which the results of these assessments are used and whether knowledge of these assessments is essential as it relates to your management of the newborn. *Note: All listings are presented in alphabetical order and the importance of the item should not be based on where it is placed on the list.*

Check the box if you consider the item essential as defined below. Leave the box blank if not essential.

- **Essential** - an expected knowledge competency that a Low Risk Neonatal nurse should possess no matter the educational background, practice setting, patient population focus or years of experience

Check the frequency that is most representative of your practice.

- **Routinely** - at least once a month or more
- **Occasionally** - every 2-6 months
- **Rarely** - less than 1-2 times per year

### Assessment & Evaluation Of Intrauterine Environment (check all that apply)

	Essential	Routinely done	Occasionally done	Rarely done	Never done
Alpha-fetoprotein screening	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Biophysical profile	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Cord blood gases	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Fetal echocardiogram	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Lung maturation studies	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Nonstress testing	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Triple or quad screening	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Are there other sources of information resulting from fetal assessment procedures that are routinely used or critical to your management of the newborn?

- Yes  
 No

If yes, please list specifics below

## Mother/Fetus

### Maternal Factors & Complications Affecting the Fetus/Neonate

Listed below are a variety of factors affecting the outcome of the fetus and newborn relative to maternal conditions. Please indicate the frequency this information is used and whether knowledge regarding these pre-existing or pregnancy-related conditions is essential as it relates to your management of the newborn. *Note: All listings are presented in alphabetical order and the importance of the item should not be based on where it is placed on the list.*

Check the box if you consider the item essential as defined below. Leave the box blank if not essential.

- **Essential** - an expected knowledge competency that a Low Risk Neonatal nurse should possess no matter the educational background, practice setting, patient population focus or years of experience

Check the frequency that is most representative of your practice. 8



# Exhibit 1 Low Risk Neonatal Nursing (LRN)

- **Routinely** - at least once a month or more
- **Occasionally** - every 2-6 months
- **Rarely** - less than 1-2 times per year

## Maternal Factors & Complications Affecting the Fetus/Neonate (check all that apply)

	Essential	Routinely seen	Occasionally seen	Rarely seen	Never seen
Blood disorders (i.e. clotting or platelet disorders)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Blood group incompatibilities	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Complications occurring during Labor or Delivery	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Diabetes	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Eclampsia/HELLP syndrome	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Hypertension (gestational or chronic)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Infectious diseases	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Maternal hemorrhage	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Maternal medication use during pregnancy	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Maternal substance abuse	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Multiple gestation	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Oligo- or polyhydramnios	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Postterm pregnancy	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Teratogen exposure	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Are there other maternal factors or complications that routinely impact or have criticality to your management of the newborn?

Yes

No

If yes, please list specifics below

## Mother/Fetus

### Infections, genetic syndromes & teratogenic exposures

Listed below are a variety of newborn complications related to infections, genetic syndromes and teratogenic exposures in utero. Please indicate the frequency and the knowledge essentiality of these complications as they are encountered in your management of the newborn. *Note: All listings are presented in alphabetical order and the importance of the item should not be based on where it is placed on the list.*

Check the box if you consider the item essential as defined below. Leave the box blank if not essential.

- **Essential** - an expected knowledge competency that a Low Risk Neonatal nurse should possess no matter the educational background, practice setting, patient population focus or years of experience

Check the frequency that is most representative of your practice.

- **Routinely** - at least once a month or more
- **Occasionally** - every 2-6 months
- **Rarely** - less than 1-2 times per year

### Infections, genetic syndromes & teratogenic exposures (check all that apply)

	Essential	Routinely seen	Occasionally seen	Rarely seen	Never seen
AIDS/HIV	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Chlamydia	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Chromosomal syndromes	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
CMV	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Congenital anomalies	<input type="checkbox"/>	<input type="checkbox"/> 9	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

# Exhibit 1 Low Risk Neonatal Nursing (LRN)

E. Coli infections	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Fungal infections	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Group B streptococcal infection	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Hepatitis B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Herpes	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Human papilloma virus	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
In utero exposure to alcohol	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
In utero exposure to cocaine	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
In utero exposure to heroin/methadone	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
In utero exposure to nicotine	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
In utero teratogen exposure	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Neural tube defects	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sepsis/septic shock	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Staphylococcus infection	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Are there other newborn complications related to infections, genetic syndromes or exposures in utero that routinely impact or have criticality to your management of the newborn?

Yes

No

If yes, please list specifics below

## Management of Complications By System

### Cardiac & Pulmonary

Listed below are a variety of cardiac and respiratory disorders of the newborn. Please indicate the frequency and the knowledge essentiality of these disorders as they are encountered in your management of the newborn. *Note: All listings are presented in alphabetical order and the importance of the item should not be based on where it is placed on the list.*

Check the box if you consider the item essential as defined below. Leave the box blank if not essential.

- **Essential** - an expected knowledge competency that a Low Risk Neonatal nurse should possess no matter the educational background, practice setting, patient population focus or years of experience

Check the frequency that is most representative of your practice.

- **Routinely** - at least once a month or more
- **Occasionally** - every 2-6 months
- **Rarely** - less than 1-2 times per year

### Cardiac & Pulmonary Disorders (check all that apply)

	Essential	Routinely seen	Occasionally seen	Rarely seen	Never seen
Air leaks	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Coarctation of the aorta	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Congestive heart failure	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Meconium aspiration syndrome	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Patent ductus arteriosus	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Persistent pulmonary hypertension	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Pneumonia	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Respiratory distress syndrome	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Septal defects	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Tetralogy of Fallot	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

# Exhibit 1 Low Risk Neonatal Nursing (LRN)

Transient tachypnea of the newborn	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Transposition of the great vessels	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Are there other cardiac or respiratory disorders that routinely impact or have criticality to your management of the newborn?

- Yes  
 No

If yes, please list specifics below

## Management of Complications By System

### Gastrointestinal & Genitourinary

Listed below are a variety of gastrointestinal or genitourinary system disorders of the newborn. Please indicate the frequency and the knowledge essentiality of these disorders as they are encountered in your management of the newborn. *Note: All listings are presented in alphabetical order and the importance of the item should not be based on where it is placed on the list.*

Check the box if you consider the item essential as defined below. Leave the box blank if not essential.

- **Essential** - an expected knowledge competency that a Low Risk Neonatal nurse should possess no matter the educational background, practice setting, patient population focus or years of experience

Check the frequency that is most representative of your practice.

- **Routinely** - at least once a month or more
- **Occasionally** - every 2-6 months
- **Rarely** - less than 1-2 times per year

### Gastrointestinal & Genitourinary Disorders (check all that apply)

	Essential	Routinely seen	Occasionally seen	Rarely seen	Never seen
Ambiguous genitalia	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Bowel obstruction	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Diaphragmatic hernia	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Duodenal atresia	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Epispadias/hypospadias	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Esophageal atresia/Tracheoesophageal fistula	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Hydrocele	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Imperforate anus	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Inguinal hernia	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Meconium ileus	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Renal abnormalities	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Testicular abnormalities	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Umbilical hernia	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Undescended testes	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Vaginal discharge	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Are there other gastrointestinal or genitourinary disorders that routinely impact or have criticality to your management of the newborn?

- Yes  
 No

If yes, please list specifics below

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## Management of Complications By System

### Integumentary, Musculoskeletal & HEENT

Listed below are a variety of conditions or disorders involving the skin, head, neck, ears, eyes, nose, throat and musculoskeletal systems of the newborn. Please indicate the frequency and the knowledge essentiality of these conditions as they are encountered in your management of the newborn. *Note: All listings are presented in alphabetical order and the importance of the item should not be based on where it is placed on the list.*

Check the box if you consider the item essential as defined below. Leave the box blank if not essential.

- **Essential** - an expected knowledge competency that a Low Risk Neonatal nurse should possess no matter the educational background, practice setting, patient population focus or years of experience

Check the frequency that is most representative of your practice.

- **Routinely** - at least once a month or more
- **Occasionally** - every 2-6 months
- **Rarely** - less than 1-2 times per year

### Integumentary, Musculoskeletal & HEENT Conditions (check all that apply)

	Essential	Routinely seen	Occasionally seen	Rarely seen	Never seen
Cafe au lait spots	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Caput succedaneum	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Cephalohematoma	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Choanal atresia	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Cleft lip/palate	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Club feet	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Conjunctivitis	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Epstein's pearls	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Erythema toxicum	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Fractures	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Hemangiomas	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Hip dysplasia/dislocation	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Metatarsus adductus	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Milia	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Molding	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Mongolian spots	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Natal teeth	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Petechiae	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Polydactyly/Syndactyly	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Pustules/Vesicles	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Torticollis	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Are there other conditions involving the skin, head, neck, ears, eyes, nose, throat or musculoskeletal systems of the newborn that routinely impact or have criticality to your management of the newborn

- Yes  
 No

If yes, please list specifics below

# Exhibit 1 Low Risk Neonatal Nursing (LRN)

## Hematologic/Hematopoietic, Neurologic & Endocrine

Listed below are a variety of conditions or disorders involving the hematologic/hematopoietic, neurologic and endocrine systems of the newborn. Please indicate the frequency and the knowledge essentiality of these conditions as they are encountered in your management of the newborn. *Note: All listings are presented in alphabetical order and the importance of the item should not be based on where it is placed on the list.*

Check the box if you consider the item essential as defined below. Leave the box blank if not essential.

- **Essential** - an expected knowledge competency that a Low Risk Neonatal nurse should possess no matter the educational background, practice setting, patient population focus or years of experience

Check the frequency that is most representative of your practice.

- **Routinely** - at least once a month or more
- **Occasionally** - every 2-6 months
- **Rarely** - less than 1-2 times per year

## Hematologic/Hematopoietic, Neurologic & Endocrine Conditions (check all that apply)

	Essential	Routinely seen	Occasionally seen	Rarely seen	Never seen
<b>ABO incompatibility</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Anemia(physiologic or non-physiologic)</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Brachial plexus injuries</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Cystic fibrosis</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Electrolyte imbalances</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Hyperbilirubinemia</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Hypercalcemia</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Hyperglycemia</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Hypocalcemia</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Hypoglycemia</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Hypothyroidism</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Inborn errors of metabolism</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Infants of mothers with diabetes</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Jitteriness</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Intracranial hemorrhage</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Polycythemia/hyperviscosity</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Rh disease</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Seizures</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Are there other conditions involving the hematologic/hematopoietic, neurologic and endocrine systems of the newborn that routinely impact or have criticality to your management of the newborn?

- Yes  
 No

If yes, please list specifics below

## General Physiologic Assessment

### Laboratory & Diagnostic Studies

Listed below are a variety of laboratory tests and diagnostic studies. Please indicate the frequency and the knowledge essentiality of these tests and studies as they are used to evaluate the newborns you manage. *Note: All listings are presented in alphabetical order and the importance of the item should not be based on where it is placed on the list.*

Check the box if you consider the item essential as defined below. Leave the box blank if not essential.

- **Essential** - an expected knowledge competency that a Low Risk Neonatal nurse should possess no matter the educational background, practice setting, patient population focus or years of experience

# Exhibit 1 Low Risk Neonatal Nursing (LRN)

Check the frequency that is most representative of your practice.

- **Routinely** - at least once a month or more
- **Occasionally** - every 2-6 months
- **Rarely** - less than 1-2 times per year

## Laboratory & Diagnostic Studies (check all that apply)

	Essential	Routinely used	Occasionally used	Rarely used	Never used
Blood culture	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Blood gas analysis	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Bilirubin levels	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Calcium levels	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
CBC	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Coombs testing	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
CRP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Electrolyte levels	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Hematocrit	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Hemoglobin	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
HIV	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Newborn screening	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
PCR	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Platelet count	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Serum glucose levels	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Stool culture	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
T4 assay	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Urine culture	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
White blood count with differential	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Are there other laboratory tests or diagnostic studies used routinely or that you consider critical to the evaluation of the newborns you manage?

- Yes  
 No

If yes, please list specifics below

## General Management

### Nutrition, Feeding & Lactation

Listed below are a variety of issues related to newborn nutrition, feeding and lactation. Please indicate the frequency and the knowledge essentiality of these issues as they are encountered in your management of the newborn. *Note: All listings are presented in alphabetical order and the importance of the item should not be based on where it is placed on the list.*

Check the box if you consider the item essential as defined below. Leave the box blank if not essential.

- **Essential** - an expected knowledge competency that a Low Risk Neonatal nurse should possess no matter the educational background, practice setting, patient population focus or years of experience

Check the frequency that is most representative of your practice.

- **Routinely** - at least once a month or more
- **Occasionally** - every 2-6 months
- **Rarely** - less than 1-2 times per year

### Nutrition, Feeding & Lactation (check all that apply)

14

Essential    Routinely seen    Occasionally seen    Rarely seen    Never seen

# Exhibit 1 Low Risk Neonatal Nursing (LRN)

Breast engorgement	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Cleft palate	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Failure to thrive	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Formula feeding	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Infants with abnormalities of tone	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Infections(maternal/neonatal)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Insufficient milk supply	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Latch on problems	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Mastitis	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Maternal newborn separation	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Multiple birth	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Neonatal illness interfering with breastfeeding	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Nipple trauma	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Perinatal substance abuse-effects on breastfeeding	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Plugged ducts	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Prematurity	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Are there other issues related to nutrition, feeding or lactation that routinely impact or have criticality to your management of the newborn?

Yes

No

If yes, please list specifics below

## General Management

### Pharmacology/Medications

Listed below are a variety of drug groups. Please indicate the frequency and the knowledge essentiality applicable to the administration of medications within these drug groups for the newborns you manage. *Note: All listings are presented in alphabetical order and the importance of the item should not be based on where it is placed on the list.*

Check the box if you consider the item essential as defined below. Leave the box blank if not essential.

- **Essential** - an expected knowledge competency that a Low Risk Neonatal nurse should possess no matter the educational background, practice setting, patient population focus or years of experience

Check the frequency that is most representative of your practice.

- **Routinely** - at least once a month or more
- **Occasionally** - every 2-6 months
- **Rarely** - less than 1-2 times per year

### Pharmacology/Medications (check all that apply)

	Routinely administered	Occasionally administered	Rarely administered	Never administered
Analgesics/narcotics	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Antacids/GI motility drugs	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Antibiotics	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Anticoagulants	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Anticonvulsants	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Ativan	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Diuretics	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Neonatal HIV/AIDS Preventive Therapies	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

# Exhibit 1 Low Risk Neonatal Nursing (LRN)

Respiratory stimulants	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Resuscitation drugs	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Surfactant Replacement Therapy	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Vaccinations	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Vitamins	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Are there other types of medications that are routinely administered or are critical to the newborns you manage?

Yes

No

If yes, please list specifics below

## Skills

### Specified Skills

Listed below are a variety of skills used in providing care to the newborn and family. Please indicate the frequency and the knowledge essentiality applicable to the performance of these skills as it applies to the newborns you manage. *Note: All listings are presented in alphabetical order and the importance of the item should not be based on where it is placed on the list.*

Check the box if you consider the item essential as defined below. Leave the box blank if not essential.

- **Essential** - an expected knowledge competency that a Low Risk Neonatal nurse should possess no matter the educational background, practice setting, patient population focus or years of experience

Check the frequency that is most representative of your practice.

- **Routinely** - at least once a month or more
- **Occasionally** - every 2-6 months
- **Rarely** - less than 1-2 times per year

### Specified Skills (check all that apply)

	Essential	Routinely Performed	Occasionally Performed	Rarely Performed	Never Performed
Administer eye prophylaxis	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Administer hepatitis B vaccine	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Administer vitamin K	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Assess capillary refill	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Assess for signs/symptoms of pain	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Assess peripheral pulses	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Assess respiratory rate	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Assess rooting/sucking reflexes	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Auscultate heart sounds	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Auscultate lung sounds	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Bathe neonates	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Define/recognize neonatal behavioral states	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Determine the Apgar score	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Engage in discharge planning	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Engage in parent teaching regarding neonatal care	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Interpret the significance of antepartum history	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Interpret the significance of fetal assessment tests and procedures	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Interpret the significance of intrapartum history	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Maintain skin integrity	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>



# Exhibit 1 Low Risk Neonatal Nursing (LRN)

Manage neonates undergoing genetic screening	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Manage neonates undergoing phototherapy	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Manage thermoregulation needs	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Measure head circumference	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Observe for parental stress responses	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Observe parent-infant attachment behaviors	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Obtain informed consent from parents	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Palpate fontanelles	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Perform a behavioral assessment	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Perform a general neonatal physical exam	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Perform a neurologic examination	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Perform circumcision care	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Perform cord care	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Perform gestational age assessment	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Perform heel sticks	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Perform neonatal resuscitation	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Perform the pull to sit maneuver	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Perform truncal tone assessment	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Perform venipunctures	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Provide education about SIDS and/or shaken baby syndrome	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Provide nonpharmacologic pain interventions	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Read professional journals	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Take axillary temp	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Teach mother about breast care	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Teach mother about correct positioning for breastfeeding	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Teach mother about lactation physiology	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Teach mother about neonatal nutritional requirements	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Are there other clinical skills used routinely or considered critical to your management of the newborn?

Yes

No

If yes, please list specifics below

## Professional Practice

Which of the following professional issues are essential to LRN nursing practice?

### Professional Issues

	Yes	No
Ethical Issues	<input type="checkbox"/>	<input type="checkbox"/>
Evidence-based practice	<input type="checkbox"/>	<input type="checkbox"/>
Legal Issues	<input type="checkbox"/>	<input type="checkbox"/>
Nursing Research	<input type="checkbox"/>	<input type="checkbox"/>
Patient Safety	<input type="checkbox"/>	<input type="checkbox"/>

# Exhibit 1 Low Risk Neonatal Nursing (LRN)

Are there other professional issues that you would consider essential to your practice that are not included in this list?

- Yes  
 No

If yes, please list specifics below

## Current Certification Test Outline

The current certification test outline allocates question weighting with the following percentages. Based on your personal experiences, do you believe these percentages are under-represented, over-represented or just about right?

	Under-represented	Over-represented	Just about right
<b>Mother/Fetus at 10-15%</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Newborn at 50-60%</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>General Management at 10-20%</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Family Integration at less than 10%</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Professional Issues at less than 5%</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

The current certification test outline is listed below.

Does this content adequately reflect what is applied to your daily practice?

### Mother/Fetus

	Yes	No	Don't Know
<b>Assessment &amp; evaluation of intrauterine environment</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Maternal factors/complications affecting fetus/newborn</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

### Newborn

	Yes	No	Don't Know
<b>General physiologic assessment</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Physical assessment &amp; management of complications</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

### General Management

	Yes	No	Don't Know
<b>Resuscitation &amp; stabilization</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Newborn nutrition, feeding &amp; lactation</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Pharmacology</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

### Family Integration

	Yes	No	Don't Know
<b>Role adaptation</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Discharge planning/home care</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

### Professional Issues

	Yes	No	Don't Know
<b>Research</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Legal Issues</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Ethical Issues

## Demographic Information

### What best describes your practice setting?

- Hospital
- Follow Up Clinic
- Academic setting
- Administration
- Research
- Other (please specify)

#### If Other (please specify)

### If you work in a hospital, is it designated as

- Level I normal newborn care
- Level II NICU
- Level III NICU
- Level IV NICU
- Not applicable
- Other (please specify)

#### If Other (please specify)

### Are you employed by a

- Hospital
- Government Agency
- Private company
- Other (please specify)

#### If Other (please specify)

### What is your highest level of education?

- Doctorate - Ph.D
- Doctorate - DNP
- Post Master's
- Master's
- Baccalaureate
- Associate
- Diploma
- Other (please specify)

#### If Other (please specify)

### What is your job title?

- Staff Nurse
- Nurse Manager
- Nurse Educator
- Nursing Director
- Clinical Nurse Specialist
- Outreach Coordinator
- Patient Safety Nurse
- Nursing Instructor/Professor
- Researcher
- Other (Please specify)

# Exhibit 1 Low Risk Neonatal Nursing (LRN)

## If Other (please specify)

## How many hours a week do you work as a Low Risk Neonatal nurse (clinical practice, education, research and administration)?

- 46 hours of more
- 35-45 hours
- 20-34 hours
- less than 20 hours
- Not working as an Low Risk Neonatal Nurse at this time
- Retired

## What is the focus of your practice:

- Direct patient care
- Education
- Management
- Research
- Unemployed
- Retired
- Other (please specify)

## If Other (please specify)

## Percentage of practice devoted to (enter whole numbers that total 100)

Direct patient care

Education

Management

Research

## How long have you been a Low Risk Neonatal nurse?

- Less than a year
- 1-5 years
- 6-10 years
- 11-15 years
- 16-20 years
- Over 20 years

## What state do you live in

## If Other (please specify)

## Which of the following statements apply to your NCC Certification as a Low Risk Neonatal nurse (check all that apply)

- Being NCC Certified is required for employment
- Being NCC Certified is encouraged
- Being NCC Certified is not required or encouraged
- There is a financial incentive tied to being NCC Certified
- There is no financial incentive tied to being NCC Certified
- My Certification as a Low Risk Neonatal Nurse was attained for personal reasons.
- Being a Certified Low Risk Neonatal is tied to other employer-based recognition (please specify)

## Please specify other employer-based recognition

# Exhibit 1 Low Risk Neonatal Nursing (LRN)

**In the last 24 months what new practice change(s) have been incorporated into your practice?**

- None
- Listed below

**List practice change(s) here:**

<b>Exhibit 2 Low Risk Neonatal Nursing (LRN)</b>		# per answer option	% per answer option	Total per item
<b>Questions</b>	<b>Answer Options</b>			
<b>Low Risk Neonatal Nursing Core Competencies</b>				
Demonstrate knowledge of maternal, fetal, and neonatal anatomy, physiology, pharmacology and nutrition	Essential and is a frequent expectation of the LRN nurse	498	86.01%	579
	Essential and critical to positive patient outcomes for the LRN nurse but not often performed	74	12.78%	
	Not essential	6	1.04%	
	Not expected of the LRN nurse	1	0.17%	
Identify antepartal, intrapartal and postpartal risk factors related to the mother, fetus and neonate	Essential and is a frequent expectation of the LRN nurse	470	81.74%	575
	Essential and critical to positive patient outcomes for the LRN nurse but not often performed	98	17.04%	
	Not essential	5	0.87%	
	Not expected of the LRN nurse	2	0.35%	
Systematically assess the neonate, the family and their environment	Essential and is a frequent expectation of the LRN nurse	522	90.63%	576
	Essential and critical to positive patient outcomes for the LRN nurse but not often performed	54	9.38%	
	Not essential	0	0%	
	Not expected of the LRN nurse	0	0%	
Interpret assessment data to determine health status of the mother, fetus and neonate	Essential and is a frequent expectation of the LRN nurse	459	79.97%	574
	Essential and critical to positive patient outcomes for the LRN nurse but not often performed	107	18.64%	
	Not essential	3	0.52%	
	Not expected of the LRN nurse	5	0.87%	
Collaborating as a member of a multidisciplinary health care team, develop, implement and evaluate an individualized plan of care to facilitate the neonate's adaptation to extrauterine life and to promote the health of the neonate	Essential and is a frequent expectation of the LRN nurse	467	81.22%	575
	Essential and critical to positive patient outcomes for the LRN nurse but not often performed	103	17.91%	
	Not essential	4	0.70%	
	Not expected of the LRN nurse	1	0.17%	
Apply knowledge of general concepts of care that determine and promote the health of the postpartal family in the hospital, in ambulatory settings and in the home environment	Essential and is a frequent expectation of the LRN nurse	395	68.22%	579
	Essential and critical to positive patient outcomes for the LRN nurse but not often performed	164	28.32%	
	Not essential	16	2.76%	
	Not expected of the LRN nurse	4	0.69%	
Educate families about the biophysical, psychosocial and environmental needs of the neonate	Essential and is a frequent expectation of the LRN nurse	473	81.98%	577
	Essential and critical to positive patient outcomes for the LRN nurse but not often performed	96	16.64%	
	Not essential	6	1.04%	
	Not expected of the LRN nurse	2	0.35%	

<b>Exhibit 2 Low Risk Neonatal Nursing (LRN)</b>		# per answer option	% per answer option	Total per item
<b>Questions</b>	<b>Answer Options</b>			
Demonstrate knowledge of factors that influence the integration of the neonate into the family and community	Essential and is a frequent expectation of the LRN nurse	347	60.56%	573
	Essential and critical to positive patient outcomes for the LRN nurse but not often performed	200	34.90%	
	Not essential	19	3.32%	
	Not expected of the LRN nurse	7	1.22%	
Demonstrate knowledge of professional issues relative to maternal/neonatal care	Essential and is a frequent expectation of the LRN nurse	378	66.43%	569
	Essential and critical to positive patient outcomes for the LRN nurse but not often performed	158	27.77%	
	Not essential	27	4.75%	
	Not expected of the LRN nurse	6	1.05%	
Are these competencies in your experience	A. Representative of the practice of the LRN nurse	569	99.13%	574
	B. Not Representative of the practice of the LRN nurse	5	0.87%	
<b>Mother/Fetus</b>				
<b>Assessment &amp; Evaluation Of Intrauterine Environment</b> - Please indicate the frequency in which the results of these assessments are used and whether knowledge of these assessments is essential as it relates to your management of the newborn.				
Alpha-fetoprotein screening	Essential	179	33.65%	532
	Routinely done	202	37.97%	
	Occasionally done	153	28.76%	
	Rarely done	64	12.03%	
	Never done	62	11.65%	
Biophysical profile	Essential	256	47.67%	537
	Routinely done	247	46.00%	
	Occasionally done	119	22.16%	
	Rarely done	27	5.03%	
	Never done	49	9.12%	
Cord blood gases	Essential	293	54.56%	537
	Routinely done	218	40.60%	
	Occasionally done	137	25.51%	
	Rarely done	27	5.03%	
	Never done	29	5.40%	
Fetal echocardiogram	Essential	159	29.89%	532
	Routinely done	123	23.12%	
	Occasionally done	208	39.10%	
	Rarely done	104	19.55%	
	Never done	57	10.71%	
Lung maturation studies	Essential	201	37.57%	535
	Routinely done	139	25.98%	
	Occasionally done	209	39.07%	
	Rarely done	84	15.70%	
	Never done	49	9.16%	
Nonstress testing	Essential	263	49.07%	
	Routinely done	258	48.13%	

<b>Exhibit 2 Low Risk Neonatal Nursing (LRN)</b>		<b># per answer option</b>	<b>% per answer option</b>	<b>Total per item</b>
<b>Questions</b>	<b>Answer Options</b>			
	Occasionally done	94	17.54%	536
	Rarely done	28	5.22%	
	Never done	54	10.07%	
Triple or quad screening	Essential	165	31.55%	523
	Routinely done	176	33.65%	
	Occasionally done	132	25.24%	
	Rarely done	79	15.11%	
	Never done	84	16.06%	
Are there other sources of information resulting from fetal assessment procedures that are routinely used or critical to your management of the newborn?	Yes	63	12.35%	510
	No	447	87.65%	
<b>Maternal Factors &amp; Complications Affecting the Fetus/Neonate</b> - Please indicate the frequency this information is used and whether knowledge regarding these pre-existing or pregnancy-related conditions is essential as it relates to your management of the newborn.				
Blood disorders (i.e. clotting or platelet disorders)	Essential	280	53.74%	521
	Routinely seen	129	24.76%	
	Occasionally seen	210	40.31%	
	Rarely seen	89	17.08%	
	Never seen	5	0.96%	
Blood group incompatibilities	Essential	379	72.19%	525
	Routinely seen	221	42.10%	
	Occasionally seen	117	22.29%	
	Rarely seen	27	5.14%	
	Never seen	1	0.19%	
Complications occurring during Labor or Delivery	Essential	412	78.48%	525
	Routinely seen	246	46.86%	
	Occasionally seen	88	16.76%	
	Rarely seen	5	0.95%	
	Never seen	2	0.38%	
Diabetes	Essential	436	82.42%	529
	Routinely seen	288	54.44%	
	Occasionally seen	35	6.62%	
	Rarely seen	2	0.38%	
	Never seen	1	0.19%	
Eclampsia/HELLP syndrome	Essential	382	72.21%	529
	Routinely seen	196	37.05%	
	Occasionally seen	135	25.52%	
	Rarely seen	41	7.75%	
	Never seen	2	0.38%	
Hypertension (gestational or chronic)	Essential	403	76.33%	528
	Routinely seen	285	53.98%	
	Occasionally seen	51	9.66%	
	Rarely seen	5	0.95%	
	Never seen	3	0.57%	
Infectious diseases	Essential	355	67.23%	
	Routinely seen	152	28.79%	



<b>Exhibit 2 Low Risk Neonatal Nursing (LRN)</b>		<b># per answer option</b>	<b>% per answer option</b>	<b>Total per item</b>
<b>Questions</b>	<b>Answer Options</b>			
	Occasionally seen	171	32.39%	528
	Rarely seen	58	10.98%	
	Never seen	3	0.57%	
Maternal hemorrhage	Essential	326	61.98%	526
	Routinely seen	139	26.43%	
	Occasionally seen	201	38.21%	
	Rarely seen	63	11.98%	
	Never seen	2	0.38%	
Maternal medication use during pregnancy	Essential	385	72.92%	528
	Routinely seen	264	50%	
	Occasionally seen	90	17.05%	
	Rarely seen	9	1.70%	
	Never seen	0	0%	
Maternal substance abuse	Essential	401	75.80%	529
	Routinely seen	215	40.64%	
	Occasionally seen	127	24.01%	
	Rarely seen	11	2.08%	
	Never seen	0	0%	
Multiple gestation	Essential	352	66.42%	530
	Routinely seen	211	39.81%	
	Occasionally seen	176	33.21%	
	Rarely seen	13	2.45%	
	Never seen	1	0.19%	
Oligo- or polyhydramnios	Essential	356	67.55%	527
	Routinely seen	221	41.94%	
	Occasionally seen	146	27.70%	
	Rarely seen	24	4.55%	
	Never seen	1	0.19%	
Postterm pregnancy	Essential	338	64.50%	524
	Routinely seen	199	37.98%	
	Occasionally seen	154	29.39%	
	Rarely seen	43	8.21%	
	Never seen	1	0.19%	
Teratogen exposure	Essential	220	42.23%	521
	Routinely seen	77	14.78%	
	Occasionally seen	121	23.22%	
	Rarely seen	220	42.23%	
	Never seen	48	9.21%	
Are there other maternal factors or complications that routinely impact or have criticality to your management of the newborn?	Yes	48	9.62%	499
	No	451	90.38%	
<b>Infections, genetic syndromes &amp; teratogenic exposures</b> - Please indicate the frequency and the knowledge essentiality of these complications as they are encountered in your management of the newborn.				
AIDS/HIV	Essential	283	54.32%	
	Routinely seen	46	8.83%	
	Occasionally seen	132	25.34%	

<b>Exhibit 2 Low Risk Neonatal Nursing (LRN)</b>				
<b>Questions</b>	<b>Answer Options</b>	<b># per answer option</b>	<b>% per answer option</b>	<b>Total per item</b>
	Rarely seen	228	43.76%	521
	Never seen	44	8.45%	
Chlamydia	Essential	274	53.20%	515
	Routinely seen	136	26.41%	
	Occasionally seen	179	34.76%	
	Rarely seen	108	20.97%	
	Never seen	12	2.33%	
Chromosomal syndromes	Essential	261	50.29%	519
	Routinely seen	72	13.87%	
	Occasionally seen	238	45.86%	
	Rarely seen	142	27.36%	
	Never seen	5	0.96%	
CMV	Essential	253	48.65%	520
	Routinely seen	40	7.69%	
	Occasionally seen	147	28.27%	
	Rarely seen	237	45.58%	
	Never seen	39	7.50%	
Congenital anomalies	Essential	284	54.62%	520
	Routinely seen	75	14.42%	
	Occasionally seen	238	45.77%	
	Rarely seen	129	24.81%	
	Never seen	5	0.96%	
E. Coli infections	Essential	221	42.66%	518
	Routinely seen	38	7.34%	
	Occasionally seen	141	27.22%	
	Rarely seen	220	42.47%	
	Never seen	63	12.16%	
Fungal infections	Essential	197	38.33%	514
	Routinely seen	38	7.39%	
	Occasionally seen	128	24.90%	
	Rarely seen	222	43.19%	
	Never seen	80	15.56%	
Group B streptococcal infection	Essential	369	71.37%	517
	Routinely seen	183	35.40%	
	Occasionally seen	148	28.63%	
	Rarely seen	43	8.32%	
	Never seen	6	1.16%	
Hepatitis B	Essential	314	60.62%	518
	Routinely seen	82	15.83%	
	Occasionally seen	159	30.69%	
	Rarely seen	161	31.08%	
	Never seen	24	4.63%	
Herpes	Essential	319	61.35%	520
	Routinely seen	111	21.35%	
	Occasionally seen	189	36.35%	
	Rarely seen	107	20.58%	
	Never seen	12	2.31%	

<b>Exhibit 2 Low Risk Neonatal Nursing (LRN)</b>				
<b>Questions</b>	<b>Answer Options</b>	<b># per answer option</b>	<b>% per answer option</b>	<b>Total per item</b>
Human papilloma virus	Essential	238	45.86%	519
	Routinely seen	125	24.08%	
	Occasionally seen	163	31.41%	
	Rarely seen	133	25.63%	
	Never seen	34	6.55%	
In utero exposure to alcohol	Essential	295	56.62%	521
	Routinely seen	115	22.07%	
	Occasionally seen	197	37.81%	
	Rarely seen	120	23.03%	
	Never seen	7	1.34%	
In utero exposure to cocaine	Essential	321	61.73%	520
	Routinely seen	124	23.85%	
	Occasionally seen	209	40.19%	
	Rarely seen	87	16.73%	
	Never seen	3	0.58%	
In utero exposure to heroin/methadone	Essential	341	65.58%	520
	Routinely seen	162	31.15%	
	Occasionally seen	177	34.04%	
	Rarely seen	60	11.54%	
	Never seen	3	0.58%	
In utero exposure to nicotine	Essential	340	65.51%	519
	Routinely seen	261	50.29%	
	Occasionally seen	100	19.27%	
	Rarely seen	23	4.43%	
	Never seen	3	0.58%	
In utero teratogen exposure	Essential	227	43.91%	517
	Routinely seen	59	11.41%	
	Occasionally seen	122	23.60%	
	Rarely seen	219	42.36%	
	Never seen	65	12.57%	
Neural tube defects	Essential	265	51.26%	517
	Routinely seen	39	7.54%	
	Occasionally seen	105	20.31%	
	Rarely seen	261	50.48%	
	Never seen	52	10.06%	
Sepsis/septic shock	Essential	312	59.88%	521
	Routinely seen	110	21.11%	
	Occasionally seen	161	30.90%	
	Rarely seen	137	26.30%	
	Never seen	23	4.41%	
Staphylococcus infection	Essential	281	54.04%	520
	Routinely seen	84	16.15%	
	Occasionally seen	170	32.69%	
	Rarely seen	157	30.19%	
	Never seen	30	5.77%	

<b>Exhibit 2 Low Risk Neonatal Nursing (LRN)</b>				
<b>Questions</b>	<b>Answer Options</b>	<b># per answer option</b>	<b>% per answer option</b>	<b>Total per item</b>
Are there other newborn complications related to infections, genetic syndromes or exposures in utero that routinely impact or have criticality to your management of the newborn?	Yes	28	5.75%	487
	No	459	94.25%	
<b>Management of Complications By System</b>				
<b>Cardiac &amp; Pulmonary Disorders</b> -Please indicate the frequency and the knowledge essentiality of these disorders as they are encountered in your management of the newborn.				
Air leaks	Essential	249	47.16%	528
	Routinely seen	33	6.25%	
	Occasionally seen	189	35.80%	
	Rarely seen	208	39.39%	
	Never seen	36	6.82%	
Coarctation of the aorta	Essential	250	47.71%	524
	Routinely seen	15	2.86%	
	Occasionally seen	121	23.09%	
	Rarely seen	298	56.87%	
	Never seen	44	8.40%	
Congestive heart failure	Essential	221	42.34%	522
	Routinely seen	19	3.64%	
	Occasionally seen	101	19.35%	
	Rarely seen	265	50.77%	
	Never seen	93	17.82%	
Meconium aspiration syndrome	Essential	328	61.89%	530
	Routinely seen	90	16.98%	
	Occasionally seen	264	49.81%	
	Rarely seen	77	14.53%	
	Never seen	5	0.94%	
Patent ductus arteriosus	Essential	333	62.83%	530
	Routinely seen	196	36.98%	
	Occasionally seen	173	32.64%	
	Rarely seen	43	8.11%	
	Never seen	11	2.08%	
Persistent pulmonary hypertension	Essential	276	52.17%	529
	Routinely seen	80	15.12%	
	Occasionally seen	210	39.70%	
	Rarely seen	156	29.49%	
	Never seen	20	3.78%	
Pneumonia	Essential	288	54.75%	526
	Routinely seen	96	18.25%	
	Occasionally seen	231	43.92%	
	Rarely seen	108	20.53%	
	Never seen	16	3.04%	
Respiratory distress syndrome	Essential	383	72.26%	
	Routinely seen	262	49.43%	
	Occasionally seen	107	20.19%	

<b>Exhibit 2 Low Risk Neonatal Nursing (LRN)</b>		<b># per answer option</b>	<b>% per answer option</b>	<b>Total per item</b>
<b>Questions</b>	<b>Answer Options</b>			
	Rarely seen	20	3.77%	530
	Never seen	1	0.19%	
Septal defects	Essential	266	50.38%	528
	Routinely seen	75	14.20%	
	Occasionally seen	232	43.94%	
	Rarely seen	140	26.52%	
	Never seen	22	4.17%	
Tetralogy of Fallot	Essential	234	44.74%	523
	Routinely seen	22	4.21%	
	Occasionally seen	108	20.65%	
	Rarely seen	300	57.36%	
	Never seen	55	10.52%	
Transient tachypnea of the newborn	Essential	403	76.33%	528
	Routinely seen	283	53.60%	
	Occasionally seen	71	13.45%	
	Rarely seen	7	1.33%	
	Never seen	0	0%	
Transposition of the great vessels	Essential	235	44.68%	526
	Routinely seen	15	2.85%	
	Occasionally seen	101	19.20%	
	Rarely seen	304	57.79%	
	Never seen	66	12.55%	
Are there other cardiac or respiratory disorders that routinely impact or have criticality to your management of the newborn?	Yes	40	8.03%	498
	No	458	91.97%	
<b>Gastrointestinal &amp; Genitourinary Disorders</b> -Please indicate the frequency and the knowledge essentiality of these disorders as they are encountered in your management of the newborn.				
Ambiguous genitalia	Essential	242	46.27%	523
	Routinely seen	10	1.91%	
	Occasionally seen	91	17.40%	
	Rarely seen	347	66.35%	
	Never seen	39	7.46%	
Bowel obstruction	Essential	268	51.34%	522
	Routinely seen	21	4.02%	
	Occasionally seen	140	26.82%	
	Rarely seen	289	55.36%	
	Never seen	27	5.17%	
Diaphragmatic hernia	Essential	272	52.11%	522
	Routinely seen	12	2.30%	
	Occasionally seen	94	18.01%	
	Rarely seen	315	60.34%	
	Never seen	55	10.54%	
Duodenal atresia	Essential	226	43.30%	
	Routinely seen	11	2.11%	
	Occasionally seen	66	12.64%	
	Rarely seen	319	61.11%	

<b>Exhibit 2 Low Risk Neonatal Nursing (LRN)</b>		<b># per answer option</b>	<b>% per answer option</b>	<b>Total per item</b>
<b>Questions</b>	<b>Answer Options</b>			
	Never seen	87	16.67%	522
Epispadias/hypospadias	Essential	290	55.56%	522
	Routinely seen	113	21.65%	
	Occasionally seen	257	49.23%	
	Rarely seen	85	16.28%	
	Never seen	1	0.19%	
Esophageal atresia/Tracheoesophageal fistula	Essential	257	49.14%	523
	Routinely seen	10	1.91%	
	Occasionally seen	101	19.31%	
	Rarely seen	322	61.57%	
	Never seen	47	8.99%	
Hydrocele	Essential	305	58.32%	523
	Routinely seen	164	31.36%	
	Occasionally seen	222	42.45%	
	Rarely seen	57	10.90%	
	Never seen	1	0.19%	
Imperforate anus	Essential	269	51.43%	523
	Routinely seen	22	4.21%	
	Occasionally seen	90	17.21%	
	Rarely seen	321	61.38%	
	Never seen	51	9.75%	
Inguinal hernia	Essential	258	49.33%	523
	Routinely seen	64	12.24%	
	Occasionally seen	165	31.55%	
	Rarely seen	211	40.34%	
	Never seen	33	6.31%	
Meconium ileus	Essential	240	45.98%	522
	Routinely seen	29	5.56%	
	Occasionally seen	112	21.46%	
	Rarely seen	277	53.07%	
	Never seen	58	11.11%	
Renal abnormalities	Essential	234	44.74%	523
	Routinely seen	50	9.56%	
	Occasionally seen	157	30.02%	
	Rarely seen	244	46.65%	
	Never seen	35	6.69%	
Testicular abnormalities	Essential	234	45.17%	518
	Routinely seen	30	5.79%	
	Occasionally seen	121	23.36%	
	Rarely seen	291	56.18%	
	Never seen	37	7.14%	
Umbilical hernia	Essential	273	52.40%	521
	Routinely seen	128	24.57%	
	Occasionally seen	203	38.96%	
	Rarely seen	114	21.88%	
	Never seen	10	1.92%	
Undescended testes	Essential	311	59.81%	

<b>Exhibit 2 Low Risk Neonatal Nursing (LRN)</b>				
<b>Questions</b>	<b>Answer Options</b>	<b># per answer option</b>	<b>% per answer option</b>	<b>Total per item</b>
	Routinely seen	160	30.77%	520
	Occasionally seen	217	41.73%	
	Rarely seen	57	10.96%	
	Never seen	2	0.38%	
Vaginal discharge	Essential	324	61.95%	523
	Routinely seen	269	51.43%	
	Occasionally seen	118	22.56%	
	Rarely seen	33	6.31%	
	Never seen	6	1.15%	
Are there other gastrointestinal or genitourinary disorders that routinely impact or have criticality to your management of the newborn?	Yes	37	7.64%	484
	No	447	92.36%	
<b>Integumentary, Musculoskeletal &amp; HEENT Conditions</b> -Please indicate the frequency and the knowledge essentiality of these conditions as they are encountered in your management of the newborn.				
Cafe au lait spots	Essential	269	52.03%	517
	Routinely seen	130	25.15%	
	Occasionally seen	203	39.26%	
	Rarely seen	94	18.18%	
	Never seen	14	2.71%	
Caput succedaneum	Essential	395	76.25%	518
	Routinely seen	302	58.30%	
	Occasionally seen	54	10.42%	
	Rarely seen	8	1.54%	
	Never seen	0	0%	
Cephalohematoma	Essential	388	74.76%	519
	Routinely seen	256	49.33%	
	Occasionally seen	103	19.85%	
	Rarely seen	10	1.93%	
	Never seen	1	0.19%	
Choanal atresia	Essential	272	52.71%	516
	Routinely seen	18	3.49%	
	Occasionally seen	94	18.22%	
	Rarely seen	300	58.14%	
	Never seen	57	11.05%	
Cleft lip/palate	Essential	305	58.65%	520
	Routinely seen	40	7.69%	
	Occasionally seen	232	44.62%	
	Rarely seen	179	34.42%	
	Never seen	5	0.96%	
Club feet	Essential	265	51.16%	518
	Routinely seen	39	7.53%	
	Occasionally seen	213	41.12%	
	Rarely seen	206	39.77%	
	Never seen	8	1.54%	
Conjunctivitis	Essential	271	52.52%	
	Routinely seen	89	17.25%	

<b>Exhibit 2 Low Risk Neonatal Nursing (LRN)</b>		<b># per answer option</b>	<b>% per answer option</b>	<b>Total per item</b>
<b>Questions</b>	<b>Answer Options</b>			
	Occasionally seen	208	40.31%	516
	Rarely seen	141	27.33%	
	Never seen	17	3.29%	
Epstein's pearls	Essential	301	58.11%	518
	Routinely seen	174	33.59%	
	Occasionally seen	161	31.08%	
	Rarely seen	89	17.18%	
	Never seen	7	1.35%	
Erythema toxicum	Essential	352	67.82%	519
	Routinely seen	259	49.90%	
	Occasionally seen	83	15.99%	
	Rarely seen	43	8.29%	
	Never seen	6	1.16%	
Fractures	Essential	272	52.61%	517
	Routinely seen	42	8.12%	
	Occasionally seen	207	40.04%	
	Rarely seen	209	40.43%	
	Never seen	13	2.51%	
Hemangiomas	Essential	291	56.07%	519
	Routinely seen	106	20.42%	
	Occasionally seen	220	42.39%	
	Rarely seen	116	22.35%	
	Never seen	8	1.54%	
Hip dysplasia/dislocation	Essential	276	53.28%	518
	Routinely seen	58	11.20%	
	Occasionally seen	197	38.03%	
	Rarely seen	187	36.10%	
	Never seen	20	3.86%	
Metatarsus adductus	Essential	215	41.83%	514
	Routinely seen	47	9.14%	
	Occasionally seen	152	29.57%	
	Rarely seen	216	42.02%	
	Never seen	57	11.09%	
Milia	Essential	374	72.06%	519
	Routinely seen	329	63.39%	
	Occasionally seen	34	6.55%	
	Rarely seen	6	1.16%	
	Never seen	1	0.19%	
Molding	Essential	409	78.81%	519
	Routinely seen	330	63.58%	
	Occasionally seen	15	2.89%	
	Rarely seen	2	0.39%	
	Never seen	0	0%	
Mongolian spots	Essential	393	75.87%	
	Routinely seen	324	62.55%	
	Occasionally seen	26	5.02%	
	Rarely seen	4	0.77%	



<b>Exhibit 2 Low Risk Neonatal Nursing (LRN)</b>		<b># per answer option</b>	<b>% per answer option</b>	<b>Total per item</b>
<b>Questions</b>	<b>Answer Options</b>			
	Never seen	0	0%	518
Natal teeth	Essential	256	49.42%	518
	Routinely seen	50	9.65%	
	Occasionally seen	150	28.96%	
	Rarely seen	235	45.37%	
	Never seen	27	5.21%	
Petechiae	Essential	350	67.44%	519
	Routinely seen	194	37.38%	
	Occasionally seen	169	32.56%	
	Rarely seen	37	7.13%	
	Never seen	1	0.19%	
Polydactyly/Syndactyly	Essential	287	55.51%	517
	Routinely seen	81	15.67%	
	Occasionally seen	216	41.78%	
	Rarely seen	137	26.50%	
	Never seen	8	1.55%	
Pustules/Vesicles	Essential	296	57.48%	515
	Routinely seen	110	21.36%	
	Occasionally seen	204	39.61%	
	Rarely seen	106	20.58%	
	Never seen	11	2.14%	
Torticollis	Essential	232	45.31%	512
	Routinely seen	40	7.81%	
	Occasionally seen	136	26.56%	
	Rarely seen	229	44.73%	
	Never seen	61	11.91%	
Are there other conditions involving the skin, head, neck, ears, eyes, nose, throat or musculoskeletal systems of the newborn that routinely impact or have criticality to your management of the newborn?	Yes	28	5.85%	479
	No	451	94.15%	
<b>Hematologic/Hematopoietic, Neurologic &amp; Endocrine Conditions</b> -Please indicate the frequency and the knowledge essentiality of these conditions as they are encountered in your management of the newborn.				
ABO incompatibility	Essential	378	73.68%	513
	Routinely seen	211	41.13%	
	Occasionally seen	140	27.29%	
	Rarely seen	26	5.07%	
	Never seen	2	0.39%	
Anemia(physiologic or non-physiologic)	Essential	308	60.39%	510
	Routinely seen	114	22.35%	
	Occasionally seen	175	34.31%	
	Rarely seen	123	24.12%	
	Never seen	7	1.37%	
Brachial plexus injuries	Essential	283	55.17%	
	Routinely seen	38	7.41%	
	Occasionally seen	208	40.55%	

<b>Exhibit 2 Low Risk Neonatal Nursing (LRN)</b>		<b># per answer option</b>	<b>% per answer option</b>	<b>Total per item</b>
<b>Questions</b>	<b>Answer Options</b>			
	Rarely seen	195	38.01%	513
	Never seen	9	1.75%	
Cystic fibrosis	Essential	201	39.26%	512
	Routinely seen	15	2.93%	
	Occasionally seen	53	10.35%	
	Rarely seen	264	51.56%	
	Never seen	149	29.10%	
Electrolyte imbalances	Essential	280	54.69%	512
	Routinely seen	94	18.36%	
	Occasionally seen	168	32.81%	
	Rarely seen	151	29.49%	
	Never seen	30	5.86%	
Hyperbilirubinemia	Essential	428	83.27%	514
	Routinely seen	304	59.14%	
	Occasionally seen	21	4.09%	
	Rarely seen	6	1.17%	
	Never seen	0	0%	
Hypercalcemia	Essential	245	47.95%	511
	Routinely seen	45	8.81%	
	Occasionally seen	158	30.92%	
	Rarely seen	200	39.14%	
	Never seen	57	11.15%	
Hyperglycemia	Essential	279	54.49%	512
	Routinely seen	61	11.91%	
	Occasionally seen	138	26.95%	
	Rarely seen	190	37.11%	
	Never seen	50	9.77%	
Hypocalcemia	Essential	256	50.49%	507
	Routinely seen	72	14.20%	
	Occasionally seen	156	30.77%	
	Rarely seen	181	35.70%	
	Never seen	42	8.28%	
Hypoglycemia	Essential	423	82.14%	515
	Routinely seen	289	56.12%	
	Occasionally seen	36	6.99%	
	Rarely seen	10	1.94%	
	Never seen	2	0.39%	
Hypothyroidism	Essential	221	43.42%	509
	Routinely seen	47	9.23%	
	Occasionally seen	101	19.84%	
	Rarely seen	234	45.97%	
	Never seen	87	17.09%	
Inborn errors of metabolism	Essential	239	47.33%	505
	Routinely seen	35	6.93%	
	Occasionally seen	113	22.38%	
	Rarely seen	240	47.52%	
	Never seen	71	14.06%	

<b>Exhibit 2 Low Risk Neonatal Nursing (LRN)</b>		# per answer option	% per answer option	Total per item
<b>Questions</b>	<b>Answer Options</b>			
Infants of mothers with diabetes	Essential	425	82.36%	516
	Routinely seen	307	59.50%	
	Occasionally seen	21	4.07%	
	Rarely seen	7	1.36%	
	Never seen	1	0.19%	
Jitteriness	Essential	407	79.49%	512
	Routinely seen	290	56.64%	
	Occasionally seen	45	8.79%	
	Rarely seen	7	1.37%	
	Never seen	2	0.39%	
Intracranial hemorrhage	Essential	290	56.97%	509
	Routinely seen	53	10.41%	
	Occasionally seen	133	26.13%	
	Rarely seen	209	41.06%	
	Never seen	52	10.22%	
Polycythemia/hyperviscosity	Essential	291	56.73%	513
	Routinely seen	110	21.44%	
	Occasionally seen	185	36.06%	
	Rarely seen	122	23.78%	
	Never seen	24	4.68%	
Rh disease	Essential	297	58.12%	511
	Routinely seen	68	13.31%	
	Occasionally seen	148	28.96%	
	Rarely seen	178	34.83%	
	Never seen	43	8.41%	
Seizures	Essential	293	57.79%	507
	Routinely seen	32	6.31%	
	Occasionally seen	157	30.97%	
	Rarely seen	247	48.72%	
	Never seen	15	2.96%	
Are there other conditions involving the hematologic/hematopoietic, neurologic and endocrine systems of the newborn that routinely impact or have criticality to your management of the newborn?	Yes	18	3.81%	472
	No	454	96.19%	

### General Physiologic Assessment

**Laboratory & Diagnostic Studies** -Please indicate the frequency and the knowledge essentiality of these tests and studies as they are used to evaluate the newborns you manage.

Blood culture	Essential	427	83.07%	514
	Routinely used	285	55.45%	
	Occasionally used	41	7.98%	
	Rarely used	10	1.95%	
	Never used	1	0.19%	
Blood gas analysis	Essential	375	72.96%	
	Routinely used	238	46.30%	
	Occasionally used	108	21.01%	

<b>Exhibit 2 Low Risk Neonatal Nursing (LRN)</b>				
<b>Questions</b>	<b>Answer Options</b>	<b># per answer option</b>	<b>% per answer option</b>	<b>Total per item</b>
	Rarely used	25	4.86%	514
	Never used	7	1.36%	
Bilirubin levels	Essential	459	89.30%	514
	Routinely used	308	59.92%	
	Occasionally used	2	0.39%	
	Rarely used	1	0.19%	
	Never used	0	0%	
Calcium levels	Essential	304	59.61%	510
	Routinely used	165	32.35%	
	Occasionally used	149	29.22%	
	Rarely used	94	18.43%	
	Never used	6	1.18%	
CBC	Essential	452	87.94%	514
	Routinely used	295	57.39%	
	Occasionally used	17	3.31%	
	Rarely used	1	0.19%	
	Never used	1	0.19%	
Coombs testing	Essential	445	86.74%	513
	Routinely used	301	58.67%	
	Occasionally used	19	3.70%	
	Rarely used	1	0.19%	
	Never used	2	0.39%	
CRP	Essential	366	71.48%	512
	Routinely used	209	40.82%	
	Occasionally used	105	20.51%	
	Rarely used	36	7.03%	
	Never used	19	3.71%	
Electrolyte levels	Essential	364	71.51%	509
	Routinely used	204	40.08%	
	Occasionally used	113	22.20%	
	Rarely used	48	9.43%	
	Never used	5	0.98%	
Hematocrit	Essential	438	85.05%	515
	Routinely used	291	56.50%	
	Occasionally used	33	6.41%	
	Rarely used	3	0.58%	
	Never used	1	0.19%	
Hemoglobin	Essential	426	82.88%	514
	Routinely used	286	55.64%	
	Occasionally used	41	7.98%	
	Rarely used	9	1.75%	
	Never used	2	0.39%	
HIV	Essential	286	56.19%	509
	Routinely used	99	19.45%	
	Occasionally used	120	23.58%	
	Rarely used	169	33.20%	
	Never used	48	9.43%	

<b>Exhibit 2 Low Risk Neonatal Nursing (LRN)</b>		<b># per answer option</b>	<b>% per answer option</b>	<b>Total per item</b>
<b>Questions</b>	<b>Answer Options</b>			
Newborn screening	Essential	476	92.61%	514
	Routinely used	279	54.28%	
	Occasionally used	5	0.97%	
	Rarely used	1	0.19%	
	Never used	2	0.39%	
PCR	Essential	233	46.98%	496
	Routinely used	84	16.94%	
	Occasionally used	134	27.02%	
	Rarely used	134	27.02%	
	Never used	74	14.92%	
Platelet count	Essential	392	77.32%	507
	Routinely used	270	53.25%	
	Occasionally used	68	13.41%	
	Rarely used	12	2.37%	
	Never used	2	0.39%	
Serum glucose levels	Essential	444	86.38%	514
	Routinely used	288	56.03%	
	Occasionally used	26	5.06%	
	Rarely used	1	0.19%	
	Never used	3	0.58%	
Stool culture	Essential	230	45.19%	509
	Routinely used	44	8.64%	
	Occasionally used	113	22.20%	
	Rarely used	201	39.49%	
	Never used	89	17.49%	
T4 assay	Essential	203	39.88%	509
	Routinely used	58	11.39%	
	Occasionally used	109	21.41%	
	Rarely used	206	40.47%	
	Never used	88	17.29%	
Urine culture	Essential	267	52.56%	508
	Routinely used	91	17.91%	
	Occasionally used	136	26.77%	
	Rarely used	162	31.89%	
	Never used	40	7.87%	
White blood count with differential	Essential	433	84.24%	514
	Routinely used	283	55.06%	
	Occasionally used	32	6.23%	
	Rarely used	6	1.17%	
	Never used	4	0.78%	
Are there other laboratory tests or diagnostic studies used routinely or that you consider critical to the evaluation of the newborns you manage?	Yes	47	9.89%	475
	No	428	90.11%	

### General Management

**Nutrition, Feeding & Lactation** -Please indicate the frequency and the knowledge essentiality of these issues as they are encountered in your management of the newborn.

<b>Exhibit 2 Low Risk Neonatal Nursing (LRN)</b>		<b># per answer option</b>	<b>% per answer option</b>	<b>Total per item</b>
<b>Questions</b>	<b>Answer Options</b>			
Breast engorgement	Essential	364	67.91%	536
	Routinely seen	202	37.69%	
	Occasionally seen	135	25.19%	
	Rarely seen	43	8.02%	
	Never seen	4	0.75%	
Cleft palate	Essential	283	52.70%	537
	Routinely seen	42	7.82%	
	Occasionally seen	250	46.55%	
	Rarely seen	175	32.59%	
	Never seen	6	1.12%	
Failure to thrive	Essential	215	40.26%	534
	Routinely seen	35	6.55%	
	Occasionally seen	129	24.16%	
	Rarely seen	245	45.88%	
	Never seen	71	13.30%	
Formula feeding	Essential	400	74.35%	538
	Routinely seen	319	59.29%	
	Occasionally seen	44	8.18%	
	Rarely seen	4	0.74%	
	Never seen	0	0%	
Infants with abnormalities of tone	Essential	301	56.05%	537
	Routinely seen	118	21.97%	
	Occasionally seen	215	40.04%	
	Rarely seen	107	19.93%	
	Never seen	9	1.68%	
Infections(maternal/neonatal)	Essential	393	72.91%	539
	Routinely seen	211	39.15%	
	Occasionally seen	140	25.97%	
	Rarely seen	24	4.45%	
	Never seen	3	0.56%	
Insufficient milk supply	Essential	344	64.06%	537
	Routinely seen	190	35.38%	
	Occasionally seen	185	34.45%	
	Rarely seen	29	5.40%	
	Never seen	5	0.93%	
Latch on problems	Essential	404	74.81%	540
	Routinely seen	319	59.07%	
	Occasionally seen	47	8.70%	
	Rarely seen	4	0.74%	
	Never seen	0	0%	
Mastitis	Essential	271	50.47%	537
	Routinely seen	69	12.85%	
	Occasionally seen	206	38.36%	
	Rarely seen	154	28.68%	
	Never seen	31	5.77%	
Maternal newborn separation	Essential	330	61.45%	
	Routinely seen	209	38.92%	

<b>Exhibit 2 Low Risk Neonatal Nursing (LRN)</b>		<b># per answer option</b>	<b>% per answer option</b>	<b>Total per item</b>
<b>Questions</b>	<b>Answer Options</b>			
	Occasionally seen	139	25.88%	537
	Rarely seen	60	11.17%	
	Never seen	14	2.61%	
Multiple birth	Essential	334	62.08%	538
	Routinely seen	220	40.89%	
	Occasionally seen	187	34.76%	
	Rarely seen	17	3.16%	
	Never seen	0	0%	
Neonatal illness interfering with breastfeeding	Essential	367	67.96%	540
	Routinely seen	220	40.74%	
	Occasionally seen	142	26.30%	
	Rarely seen	32	5.93%	
	Never seen	6	1.11%	
Nipple trauma	Essential	291	54.80%	531
	Routinely seen	159	29.94%	
	Occasionally seen	185	34.84%	
	Rarely seen	82	15.44%	
	Never seen	9	1.69%	
Perinatal substance abuse-effects on breastfeeding	Essential	344	63.82%	539
	Routinely seen	178	33.02%	
	Occasionally seen	183	33.95%	
	Rarely seen	49	9.09%	
	Never seen	6	1.11%	
Plugged ducts	Essential	236	44.36%	532
	Routinely seen	86	16.17%	
	Occasionally seen	185	34.77%	
	Rarely seen	157	29.51%	
	Never seen	41	7.71%	
Prematurity	Essential	416	77.32%	538
	Routinely seen	268	49.81%	
	Occasionally seen	80	14.87%	
	Rarely seen	6	1.12%	
	Never seen	1	0.19%	
Are there other issues related to nutrition, feeding or lactation that routinely impact or have criticality to your management of the newborn?	Yes	97	19.09%	508
	No	411	80.91%	
<b>Pharmacology/Medications</b> -Please indicate the frequency and the knowledge essentiality applicable to the administration of medications within these drug groups for the newborns you manage.				
Analgesics/narcotics	Routinely administered	212	39.85%	532
	Occasionally administered	158	29.70%	
	Rarely administered	125	23.50%	
	Never administered	37	6.95%	
Antacids/GI motility drugs	Routinely administered	111	21.06%	527
	Occasionally administered	168	31.88%	
	Rarely administered	150	28.46%	
	Never administered	98	18.60%	

<b>Exhibit 2 Low Risk Neonatal Nursing (LRN)</b>				
<b>Questions</b>	<b>Answer Options</b>	<b># per answer option</b>	<b>% per answer option</b>	<b>Total per item</b>
Antibiotics	Routinely administered	410	77.21%	531
	Occasionally administered	94	17.70%	
	Rarely administered	15	2.82%	
	Never administered	12	2.26%	
Anticoagulants	Routinely administered	48	9.06%	530
	Occasionally administered	102	19.25%	
	Rarely administered	177	33.40%	
	Never administered	203	38.30%	
Anticonvulsants	Routinely administered	37	6.97%	531
	Occasionally administered	121	22.79%	
	Rarely administered	259	48.78%	
	Never administered	114	21.47%	
Ativan	Routinely administered	31	5.86%	529
	Occasionally administered	88	16.64%	
	Rarely administered	191	36.11%	
	Never administered	219	41.40%	
Diuretics	Routinely administered	56	10.59%	529
	Occasionally administered	126	23.82%	
	Rarely administered	191	36.11%	
	Never administered	156	29.49%	
Neonatal HIV/AIDS Preventive Therapies	Routinely administered	45	8.44%	533
	Occasionally administered	100	18.76%	
	Rarely administered	226	42.40%	
	Never administered	162	30.39%	
Respiratory stimulants	Routinely administered	132	24.95%	529
	Occasionally administered	140	26.47%	
	Rarely administered	148	27.98%	
	Never administered	109	20.60%	
Resuscitation drugs	Routinely administered	105	19.81%	530
	Occasionally administered	192	36.23%	
	Rarely administered	182	34.34%	
	Never administered	51	9.62%	
Surfactant Replacement Therapy	Routinely administered	147	27.74%	530
	Occasionally administered	174	32.83%	
	Rarely administered	96	18.11%	
	Never administered	113	21.32%	
Vaccinations	Routinely administered	478	90.02%	531
	Occasionally administered	43	8.10%	
	Rarely administered	8	1.51%	
	Never administered	2	0.38%	
Vitamins	Routinely administered	298	56.65%	526
	Occasionally administered	115	21.86%	
	Rarely administered	50	9.51%	
	Never administered	63	11.98%	
Are there other types of medications that are routinely administered or are critical to the newborns you manage?	Yes	65	13.21%	492
	No	427	86.79%	



<b>Exhibit 2 Low Risk Neonatal Nursing (LRN)</b>		# per answer option	% per answer option	Total per item
<b>Questions</b>	<b>Answer Options</b>			
<b>Specified Skills</b> -Please indicate the frequency and the knowledge essentiality applicable to the performance of these skills as it applies to the newborns you manage.				
Administer eye prophylaxis	Essential	488	93.13%	524
	Routinely Performed	260	49.62%	
	Occasionally Performed	13	2.48%	
	Rarely Performed	4	0.76%	
	Never Performed	7	1.34%	
Administer hepatitis B vaccine	Essential	479	92.12%	520
	Routinely Performed	273	52.50%	
	Occasionally Performed	8	1.54%	
	Rarely Performed	4	0.77%	
	Never Performed	3	0.58%	
Administer vitamin K	Essential	486	92.57%	525
	Routinely Performed	259	49.33%	
	Occasionally Performed	13	2.48%	
	Rarely Performed	4	0.76%	
	Never Performed	8	1.52%	
Assess capillary refill	Essential	482	91.81%	525
	Routinely Performed	274	52.19%	
	Occasionally Performed	11	2.10%	
	Rarely Performed	2	0.38%	
	Never Performed	2	0.38%	
Assess for signs/symptoms of pain	Essential	489	93.14%	525
	Routinely Performed	275	52.38%	
	Occasionally Performed	5	0.95%	
	Rarely Performed	2	0.38%	
	Never Performed	0	0%	
Assess peripheral pulses	Essential	470	89.52%	525
	Routinely Performed	267	50.86%	
	Occasionally Performed	21	4%	
	Rarely Performed	9	1.71%	
	Never Performed	2	0.38%	
Assess respiratory rate	Essential	502	95.80%	524
	Routinely Performed	269	51.34%	
	Occasionally Performed	1	0.19%	
	Rarely Performed	0	0%	
	Never Performed	0	0%	
Assess rooting/sucking reflexes	Essential	493	94.08%	524
	Routinely Performed	272	51.91%	
	Occasionally Performed	4	0.76%	
	Rarely Performed	0	0%	
	Never Performed	1	0.19%	
Auscultate heart sounds	Essential	499	95.23%	
	Routinely Performed	268	51.15%	
	Occasionally Performed	3	0.57%	
	Rarely Performed	1	0.19%	

<b>Exhibit 2 Low Risk Neonatal Nursing (LRN)</b>		<b># per answer option</b>	<b>% per answer option</b>	<b>Total per item</b>
<b>Questions</b>	<b>Answer Options</b>			
	Never Performed	0	0%	524
Auscultate lung sounds	Essential	502	95.80%	524
	Routinely Performed	271	51.72%	
	Occasionally Performed	1	0.19%	
	Rarely Performed	0	0%	
	Never Performed	0	0%	
Bathe neonates	Essential	477	91.03%	524
	Routinely Performed	276	52.67%	
	Occasionally Performed	6	1.15%	
	Rarely Performed	2	0.38%	
	Never Performed	1	0.19%	
Define/recognize neonatal behavioral states	Essential	477	90.68%	526
	Routinely Performed	271	51.52%	
	Occasionally Performed	7	1.33%	
	Rarely Performed	6	1.14%	
	Never Performed	1	0.19%	
Determine the Apgar score	Essential	436	82.89%	526
	Routinely Performed	240	45.63%	
	Occasionally Performed	29	5.51%	
	Rarely Performed	25	4.75%	
	Never Performed	28	5.32%	
Engage in discharge planning	Essential	479	91.24%	525
	Routinely Performed	270	51.43%	
	Occasionally Performed	13	2.48%	
	Rarely Performed	1	0.19%	
	Never Performed	2	0.38%	
Engage in parent teaching regarding neonatal care	Essential	495	94.65%	523
	Routinely Performed	270	51.63%	
	Occasionally Performed	1	0.19%	
	Rarely Performed	0	0%	
	Never Performed	0	0%	
Interpret the significance of antepartum history	Essential	443	84.38%	525
	Routinely Performed	281	53.52%	
	Occasionally Performed	25	4.76%	
	Rarely Performed	6	1.14%	
	Never Performed	4	0.76%	
Interpret the significance of fetal assessment tests and procedures	Essential	412	78.48%	525
	Routinely Performed	253	48.19%	
	Occasionally Performed	59	11.24%	
	Rarely Performed	15	2.86%	
	Never Performed	10	1.90%	
Interpret the significance of intrapartum history	Essential	419	79.96%	524
	Routinely Performed	275	52.48%	
	Occasionally Performed	41	7.82%	
	Rarely Performed	10	1.91%	
	Never Performed	4	0.76%	
Maintain skin integrity	Essential	485	92.38%	

<b>Exhibit 2 Low Risk Neonatal Nursing (LRN)</b>		<b># per answer option</b>	<b>% per answer option</b>	<b>Total per item</b>
<b>Questions</b>	<b>Answer Options</b>			
	Routinely Performed	271	51.62%	525
	Occasionally Performed	9	1.71%	
	Rarely Performed	0	0%	
	Never Performed	1	0.19%	
Manage neonates undergoing genetic screening	Essential	318	60.69%	524
	Routinely Performed	162	30.92%	
	Occasionally Performed	131	25%	
	Rarely Performed	79	15.08%	
	Never Performed	24	4.58%	
Manage neonates undergoing phototherapy	Essential	473	89.92%	526
	Routinely Performed	271	51.52%	
	Occasionally Performed	24	4.56%	
	Rarely Performed	4	0.76%	
	Never Performed	2	0.38%	
Manage thermoregulation needs	Essential	494	94.10%	525
	Routinely Performed	271	51.62%	
	Occasionally Performed	4	0.76%	
	Rarely Performed	1	0.19%	
	Never Performed	0	0%	
Measure head circumference	Essential	488	92.60%	527
	Routinely Performed	269	51.04%	
	Occasionally Performed	10	1.90%	
	Rarely Performed	0	0%	
	Never Performed	1	0.19%	
Observe for parental stress responses	Essential	447	84.98%	526
	Routinely Performed	282	53.61%	
	Occasionally Performed	18	3.42%	
	Rarely Performed	2	0.38%	
	Never Performed	3	0.57%	
Observe parent-infant attachment behaviors	Essential	469	88.99%	527
	Routinely Performed	290	55.03%	
	Occasionally Performed	5	0.95%	
	Rarely Performed	0	0%	
	Never Performed	0	0%	
Obtain informed consent from parents	Essential	438	83.59%	524
	Routinely Performed	262	50%	
	Occasionally Performed	20	3.82%	
	Rarely Performed	5	0.95%	
	Never Performed	19	3.63%	
Palpate fontanelles	Essential	495	94.11%	526
	Routinely Performed	273	51.90%	
	Occasionally Performed	0	0%	
	Rarely Performed	1	0.19%	
	Never Performed	1	0.19%	
Perform a behavioral assessment	Essential	439	83.78%	
	Routinely Performed	239	45.61%	
	Occasionally Performed	40	7.63%	

<b>Exhibit 2 Low Risk Neonatal Nursing (LRN)</b>				
<b>Questions</b>	<b>Answer Options</b>	<b># per answer option</b>	<b>% per answer option</b>	<b>Total per item</b>
	Rarely Performed	17	3.24%	524
	Never Performed	10	1.91%	
Perform a general neonatal physical exam	Essential	492	93.89%	524
	Routinely Performed	275	52.48%	
	Occasionally Performed	0	0%	
	Rarely Performed	0	0%	
	Never Performed	2	0.38%	
Perform a neurologic examination	Essential	433	83.27%	520
	Routinely Performed	241	46.35%	
	Occasionally Performed	53	10.19%	
	Rarely Performed	15	2.88%	
	Never Performed	9	1.73%	
Perform circumcision care	Essential	457	86.88%	526
	Routinely Performed	252	47.91%	
	Occasionally Performed	32	6.08%	
	Rarely Performed	8	1.52%	
	Never Performed	11	2.09%	
Perform cord care	Essential	461	87.98%	524
	Routinely Performed	251	47.90%	
	Occasionally Performed	15	2.86%	
	Rarely Performed	9	1.72%	
	Never Performed	13	2.48%	
Perform gestational age assessment	Essential	430	81.90%	525
	Routinely Performed	222	42.29%	
	Occasionally Performed	61	11.62%	
	Rarely Performed	24	4.57%	
	Never Performed	14	2.67%	
Perform heel sticks	Essential	479	91.59%	523
	Routinely Performed	277	52.96%	
	Occasionally Performed	3	0.57%	
	Rarely Performed	1	0.19%	
	Never Performed	1	0.19%	
Perform neonatal resuscitation	Essential	425	80.95%	525
	Routinely Performed	162	30.86%	
	Occasionally Performed	92	17.52%	
	Rarely Performed	76	14.48%	
	Never Performed	12	2.29%	
Perform the pull to sit maneuver	Essential	305	58.88%	518
	Routinely Performed	156	30.12%	
	Occasionally Performed	100	19.31%	
	Rarely Performed	61	11.78%	
	Never Performed	68	13.13%	
Perform truncal tone assessment	Essential	316	61.12%	517
	Routinely Performed	177	34.24%	
	Occasionally Performed	99	19.15%	
	Rarely Performed	52	10.06%	
	Never Performed	47	9.09%	

<b>Exhibit 2 Low Risk Neonatal Nursing (LRN)</b>		<b># per answer option</b>	<b>% per answer option</b>	<b>Total per item</b>
<b>Questions</b>	<b>Answer Options</b>			
Perform venipunctures	Essential	427	81.80%	522
	Routinely Performed	226	43.30%	
	Occasionally Performed	44	8.43%	
	Rarely Performed	25	4.79%	
	Never Performed	22	4.21%	
Provide education about SIDS and/or shaken baby syndrome	Essential	474	90.29%	525
	Routinely Performed	264	50.29%	
	Occasionally Performed	15	2.86%	
	Rarely Performed	4	0.76%	
	Never Performed	4	0.76%	
Provide nonpharmacologic pain interventions	Essential	466	88.93%	524
	Routinely Performed	273	52.10%	
	Occasionally Performed	16	3.05%	
	Rarely Performed	4	0.76%	
	Never Performed	2	0.38%	
Read professional journals	Essential	351	66.86%	525
	Routinely Performed	233	44.38%	
	Occasionally Performed	107	20.38%	
	Rarely Performed	25	4.76%	
	Never Performed	6	1.14%	
Take axillary temp	Essential	494	93.92%	526
	Routinely Performed	271	51.52%	
	Occasionally Performed	1	0.19%	
	Rarely Performed	0	0%	
	Never Performed	0	0%	
Teach mother about breast care	Essential	455	86.67%	525
	Routinely Performed	268	51.05%	
	Occasionally Performed	31	5.90%	
	Rarely Performed	1	0.19%	
	Never Performed	2	0.38%	
Teach mother about correct positioning for breastfeeding	Essential	471	89.54%	526
	Routinely Performed	277	52.66%	
	Occasionally Performed	14	2.66%	
	Rarely Performed	1	0.19%	
	Never Performed	0	0%	
Teach mother about lactation physiology	Essential	414	79.01%	524
	Routinely Performed	251	47.90%	
	Occasionally Performed	57	10.88%	
	Rarely Performed	15	2.86%	
	Never Performed	3	0.57%	
Teach mother about neonatal nutritional requirements	Essential	450	86.04%	523
	Routinely Performed	261	49.90%	
	Occasionally Performed	34	6.50%	
	Rarely Performed	3	0.57%	
	Never Performed	2	0.38%	
Are there other clinical skills used routinely or considered critical to your	Yes	42	8.71%	

<b>Exhibit 2 Low Risk Neonatal Nursing (LRN)</b>		# per answer option	% per answer option	Total per item
Questions	Answer Options			
Continuity of care considered essential to your management of the newborn?	No	440	91.29%	482
<b>Professional Practice</b> - Which of the following professional issues are essential to LRN nursing practice?				
Ethical Issues	Yes	495	97.83%	506
	No	11	2.17%	
Evidence-based practice	Yes	502	98.82%	508
	No	6	1.18%	
Legal Issues	Yes	490	96.65%	507
	No	17	3.35%	
Nursing Research	Yes	448	89.60%	500
	No	52	10.40%	
Patient Safety	Yes	503	99.60%	505
	No	2	0.40%	
Are there other professional issues that you would consider essential to your practice that are not included in this list?	Yes	18	3.85%	467
	No	449	96.15%	
<b>Current Certification Test Outline</b> - The current certification test outline allocates question weighting with the following percentages. Based on your personal experiences, do you believe these percentages are under-represented, over-represented or just about right?				
Mother/Fetus at 10-15%	Under- represented	38	7.50%	507
	Over- represented	67	13.21%	
	Just about right	402	79.29%	
Newborn at 50-60%	Under- represented	56	11.05%	507
	Over- represented	21	4.14%	
	Just about right	430	84.81%	
General Management at 10-20%	Under- represented	71	14.06%	505
	Over- represented	37	7.33%	
	Just about right	397	78.61%	
Family Integration at less than 10%	Under- represented	71	14.03%	506
	Over- represented	29	5.73%	
	Just about right	406	80.24%	
Professional Issues at less than 5%	Under- represented	47	9.34%	503
	Over- represented	20	3.98%	
	Just about right	436	86.68%	
<b>Mother/Fetus</b> - Does this content adequately reflect what is applied to your daily practice?				
Assessment & evaluation of intrauterine environment	Yes	410	82.66%	496
	No	71	14.31%	
	Don't Know	15	3.02%	
Maternal factors/complications affecting fetus/newborn	Yes	471	94.01%	501
	No	23	4.59%	
	Don't Know	7	1.40%	
<b>Newborn</b> - Does this content adequately reflect what is applied to your daily practice?				
General physiologic assessment	Yes	493	99.20%	497
	No	3	0.60%	
	Don't Know	1	0.20%	
Physical assessment & management of	Yes	493	98.80%	

<b>Exhibit 2 Low Risk Neonatal Nursing (LRN)</b>		# per answer option	% per answer option	Total per item
<b>Questions</b>	<b>Answer Options</b>			
complications	No	5	1.00%	499
	Don't Know	1	0.20%	
<b>General Management - Does this content adequately reflect what is applied to your daily practice?</b>				
Resuscitation & stabilization	Yes	481	95.06%	506
	No	18	3.56%	
	Don't Know	7	1.38%	
Newborn nutrition, feeding & lactation	Yes	494	97.24%	508
	No	12	2.36%	
	Don't Know	2	0.39%	
Pharmacology	Yes	449	89.80%	500
	No	39	7.80%	
	Don't Know	12	2.40%	
<b>Family Integration - Does this content adequately reflect what is applied to your daily practice?</b>				
Role adaptation	Yes	440	87.13%	505
	No	34	6.73%	
	Don't Know	31	6.14%	
Discharge planning/home care	Yes	462	92.96%	497
	No	22	4.43%	
	Don't Know	13	2.62%	
<b>Professional Issues - Does this content adequately reflect what is applied to your daily practice?</b>				
Research	Yes	358	70.61%	507
	No	87	17.16%	
	Don't Know	62	12.23%	
Legal Issues	Yes	419	82.81%	506
	No	45	8.89%	
	Don't Know	42	8.30%	
Ethical Issues	Yes	440	87.30%	504
	No	26	5.16%	
	Don't Know	38	7.54%	
<b>Demographic Information</b>				
What best describes your practice setting?	Hospital	477	94.46%	505
	Follow Up Clinic	3	0.59%	
	Academic setting	10	1.98%	
	Administration	2	0.40%	
	Research	0	0%	
	Other (please specify)	13	2.57%	
If you work in a hospital, is it designated as	Level I normal newborn care	88	17.60%	500
	Level II NICU	219	43.80%	
	Level III NICU	145	29%	
	Level IV NICU	20	4%	
	Not applicable	14	2.80%	
	Other (please specify)	14	2.80%	
Are you employed by a	Hospital	473	94.60%	500
	Government Agency	6	1.20%	
	Private company	6	1.20%	
	Other (please specify)	15	3%	



<b>Exhibit 2 Low Risk Neonatal Nursing (LRN)</b>				
<b>Questions</b>	<b>Answer Options</b>	<b># per answer option</b>	<b>% per answer option</b>	<b>Total per item</b>
What is your highest level of education?	Doctorate - Ph.D	8	1.57%	508
	Doctorate - DNP	3	0.59%	
	Post Master's	4	0.79%	
	Master's	75	14.76%	
	Baccalaureate	253	49.80%	
	Associate	106	20.87%	
	Diploma	55	10.83%	
	Other (please specify)	4	0.79%	
What is your job title?	Staff Nurse	383	77.06%	497
	Nurse Manager	22	4.43%	
	Nurse Educator	23	4.63%	
	Nursing Director	5	1.01%	
	Clinical Nurse Specialist	7	1.41%	
	Outreach Coordinator	0	0%	
	Patient Safety Nurse	0	0%	
	Nursing Instructor/Professor	12	2.41%	
	Researcher	1	0.20%	
	Other (Please specify)	44	8.85%	
How many hours a week do you work as a Low Risk Neonatal nurse (clinical practice, education, research and administration)?	46 hours of more	28	5.54%	505
	35-45 hours	299	59.21%	
	20-34 hours	94	18.61%	
	less than 20 hours	33	6.53%	
	Not working as an Low Risk Neonatal Nurse at this time	46	9.11%	
	Retired	5	0.99%	
What is the focus of your practice:	Direct patient care	410	81.51%	503
	Education	48	9.54%	
	Management	25	4.97%	
	Research	1	0.20%	
	Unemployed	1	0.20%	
	Retired	6	1.19%	
	Other (please specify)	12	2.39%	
Percentage of practice devoted to (enter whole numbers that total 100)	Direct patient care	71.6417	1-100	480
	Education	18.7375	1-100	
	Management	8.5125	1-100	
	Research	2.525	1-95	
How long have you been a Low Risk Neonatal nurse?	Less than a year	4	0.79%	507
	1-5 years	50	9.86%	
	6-10 years	89	17.55%	
	11-15 years	72	14.20%	
	16-20 years	57	11.24%	
	Over 20 years	235	46.35%	
What state do you live in	Alaska	4	0.79%	
	Alabama	9	1.77%	
	Arizona	13	2.55%	
	California	31	6.09%	
	Colorado	3	0.59%	



<b>Exhibit 2 Low Risk Neonatal Nursing (LRN)</b>		<b># per answer option</b>	<b>% per answer option</b>	<b>Total per item</b>
<b>Questions</b>	<b>Answer Options</b>			
	Connecticut	5	0.98%	509
	Delaware	2	0.39%	
	Florida	32	6.29%	
	Georgia	13	2.55%	
	Guam	1	0.20%	
	Iowa	2	0.39%	
	Idaho	2	0.39%	
	Illinois	19	3.73%	
	Indiana	10	1.96%	
	Kentucky	6	1.18%	
	Louisiana	8	1.57%	
	Massachusetts	13	2.55%	
	Maryland	10	1.96%	
	Michigan	6	1.18%	
	Minnesota	12	2.36%	
	Missouri	12	2.36%	
	Mississippi	4	0.79%	
	Mountana	3	0.59%	
	North Carolina	20	3.93%	
	Nebraska	4	0.79%	
	New Hampshire	1	0.20%	
	New Jersey	36	7.07%	
	New Mexico	4	0.79%	
	New York	17	3.34%	
	Ohio	21	4.13%	
	Oklahoma	1	0.20%	
	Oregon	10	1.96%	
	Pennsylvania	9	1.77%	
	Rhode Island	1	0.20%	
	South Carolina	15	2.95%	
	South Dakota	1	0.20%	
	Tennessee	11	2.16%	
	Texas	76	14.93%	
	Utah	3	0.59%	
	Virginia	40	7.86%	
	Washington	11	2.16%	
	Wisconsin	6	1.18%	
	West Virginia	1	0.20%	
	Wyoming	1	0.20%	
Which of the following statements apply to your NCC Certification as a Low Risk Neonatal nurse (check all that apply)	Being NCC Certified is required for employment	1	6.25%	
	Being NCC Certified is encouraged	9	56.25%	
	Being NCC Certified is not required or encouraged	5	31.25%	
	There is a financial incentive tied to being NCC Certified	5	31.25%	
	There is no financial incentive tied to being NCC Certified	5	31.25%	

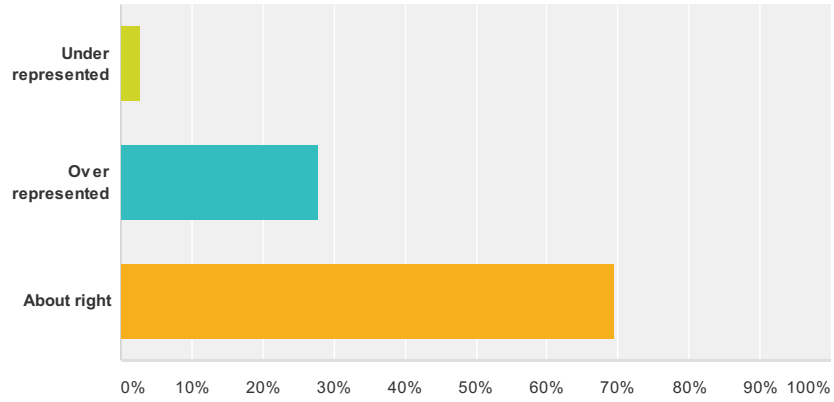
<b>Exhibit 2 Low Risk Neonatal Nursing (LRN)</b>				
<b>Questions</b>	<b>Answer Options</b>	<b># per answer option</b>	<b>% per answer option</b>	<b>Total per item</b>
	My Certification as a Low Risk Neonatal Nurse was attained for personal reasons.	10	62.50%	16
	Being a Certified Low Risk Neonatal is tied to other employer-based recognition (please specify)	0	0%	
In the last 24 months what new practice change(s) have been incorporated into your practice?	None	9	52.94%	17
	Listed below	8	47.06%	

## Exhibit 3 Low Risk Neonatal Nursing (LRN)

### 2013-2014 Low Risk Neonatal Nursing - Post Exam Feedback Survey

#### Q1 Did you think the Mother/Fetus content tested on exam was

Answered: 36 Skipped: 0



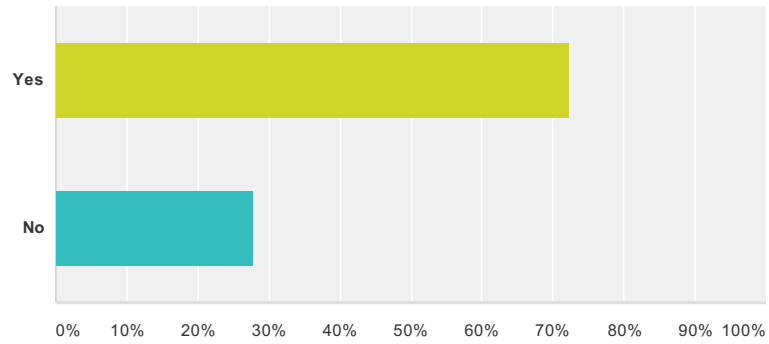
Answer Choices	Responses	
Under represented	2.78%	1
Over represented	27.78%	10
About right	69.44%	25
<b>Total</b>		<b>36</b>

## Exhibit 3 Low Risk Neonatal Nursing (LRN)

### 2013-2014 Low Risk Neonatal Nursing - Post Exam Feedback Survey

**Q2 Does this content adequately reflect what is applied to your daily practice relative to Mother/Fetus?**

Answered: 36 Skipped: 0



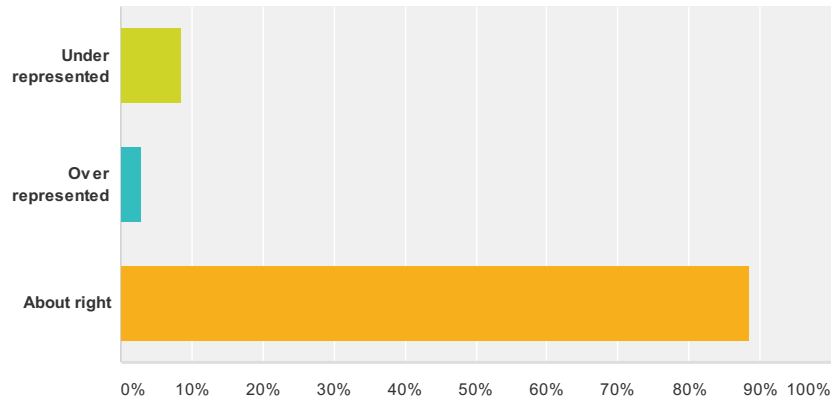
Answer Choices	Responses	
Yes	72.22%	26
No	27.78%	10
<b>Total</b>		<b>36</b>

## Exhibit 3 Low Risk Neonatal Nursing (LRN)

### 2013-2014 Low Risk Neonatal Nursing - Post Exam Feedback Survey

#### Q4 Did you think the Newborn content tested on the exam was

Answered: 35 Skipped: 1



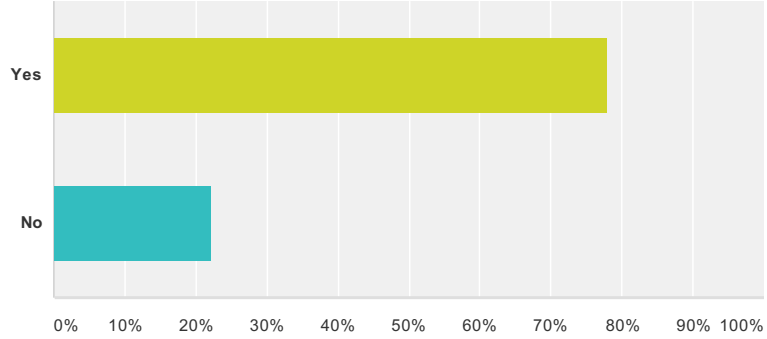
Answer Choices	Responses
Under represented	8.57% 3
Over represented	2.86% 1
About right	88.57% 31
<b>Total</b>	<b>35</b>

## Exhibit 3 Low Risk Neonatal Nursing (LRN)

### 2013-2014 Low Risk Neonatal Nursing - Post Exam Feedback Survey

**Q5 Does this content adequately reflect what is applied to daily practice relative to Newborn care?**

Answered: 36 Skipped: 0



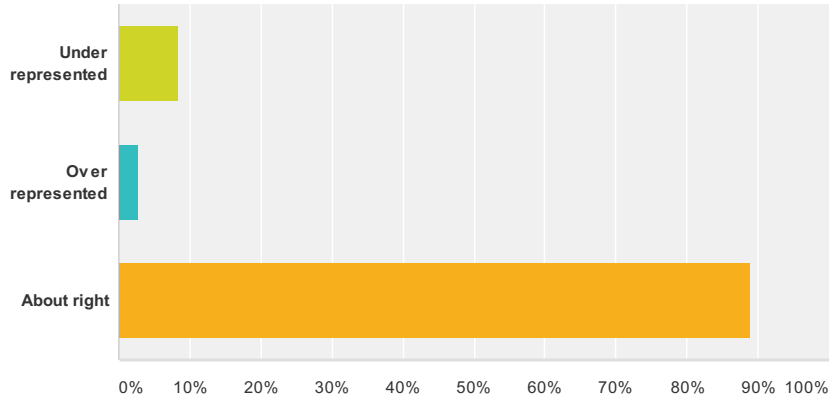
Answer Choices	Responses	
Yes	77.78%	28
No	22.22%	8
<b>Total</b>		<b>36</b>

## Exhibit 3 Low Risk Neonatal Nursing (LRN)

### 2013-2014 Low Risk Neonatal Nursing - Post Exam Feedback Survey

#### Q7 Did you think the General Management of the Newborn content tested on the exam was

Answered: 36 Skipped: 0



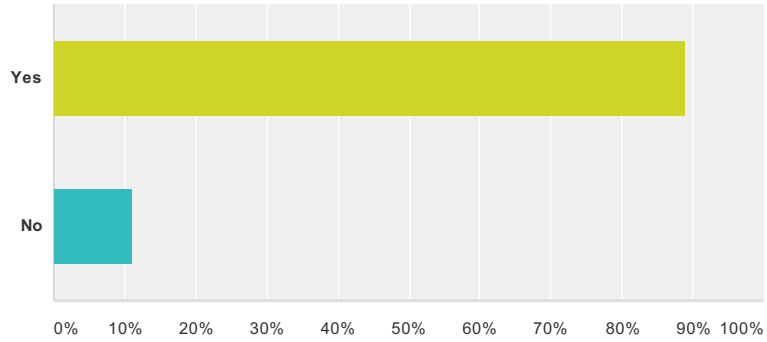
Answer Choices	Responses	
Under represented	8.33%	3
Over represented	2.78%	1
About right	88.89%	32
<b>Total</b>		<b>36</b>

## Exhibit 3 Low Risk Neonatal Nursing (LRN)

### 2013-2014 Low Risk Neonatal Nursing - Post Exam Feedback Survey

**Q8 Does this content adequately reflect what is applied to daily practice relative to General Management of the Newborn?**

Answered: 36 Skipped: 0



Answer Choices	Responses	
Yes	88.89%	32
No	11.11%	4
<b>Total</b>		<b>36</b>

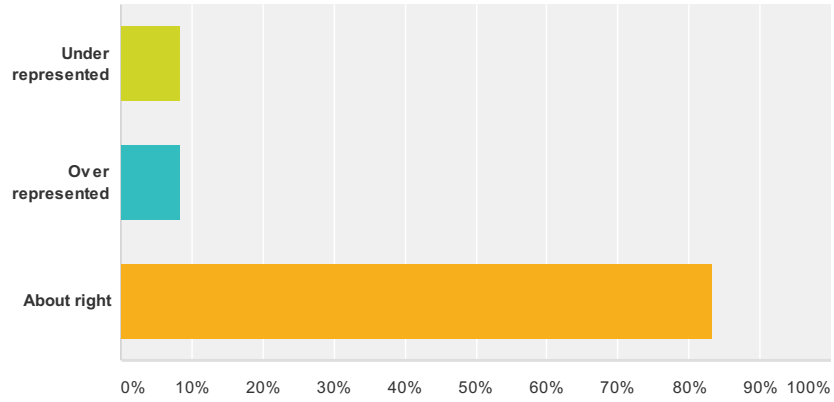


## Exhibit 3 Low Risk Neonatal Nursing (LRN)

### 2013-2014 Low Risk Neonatal Nursing - Post Exam Feedback Survey

#### Q10 Did you think the Family Integration content tested on the exam was

Answered: 36 Skipped: 0



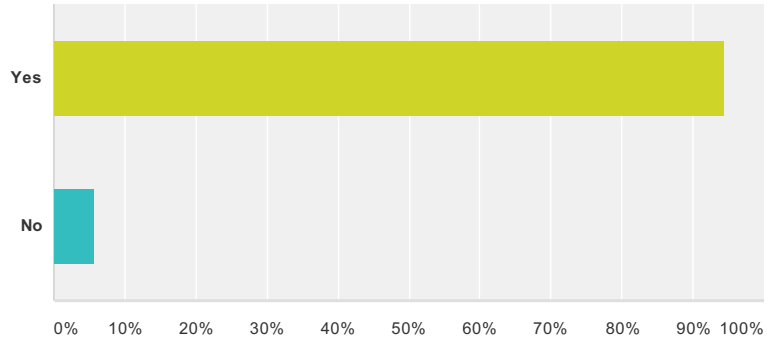
Answer Choices	Responses	Count
Under represented	8.33%	3
Over represented	8.33%	3
About right	83.33%	30
<b>Total</b>		<b>36</b>

## Exhibit 3 Low Risk Neonatal Nursing (LRN)

### 2013-2014 Low Risk Neonatal Nursing - Post Exam Feedback Survey

**Q11 Does this content adequately reflect what is applied to daily practice relative to Family Integration?**

Answered: 36 Skipped: 0



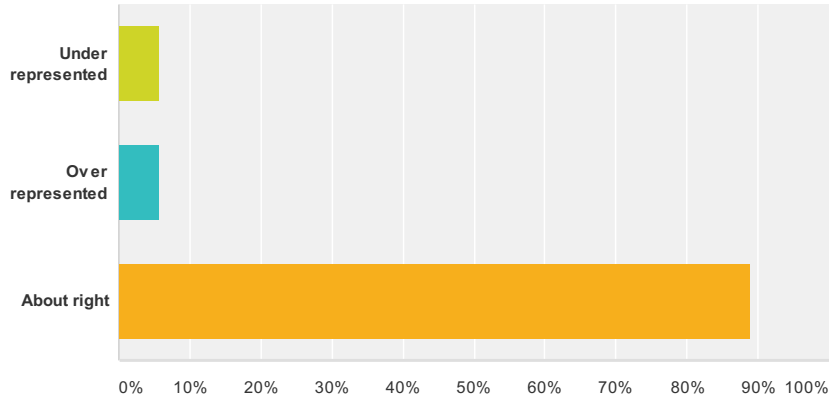
Answer Choices	Responses	
Yes	94.44%	34
No	5.56%	2
<b>Total</b>		<b>36</b>

## Exhibit 3 Low Risk Neonatal Nursing (LRN)

### 2013-2014 Low Risk Neonatal Nursing - Post Exam Feedback Survey

#### Q13 Did you think the Professional Issues content tested on the exam was

Answered: 36 Skipped: 0



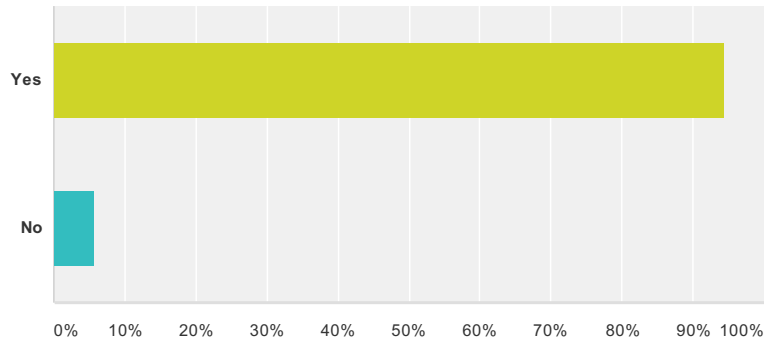
Answer Choices	Responses	Count
Under represented	5.56%	2
Over represented	5.56%	2
About right	88.89%	32
<b>Total</b>		<b>36</b>

## Exhibit 3 Low Risk Neonatal Nursing (LRN)

### 2013-2014 Low Risk Neonatal Nursing - Post Exam Feedback Survey

**Q14 Does this content adequately reflect what is applied to daily practice relative to Professional Issues?**

Answered: 36 Skipped: 0



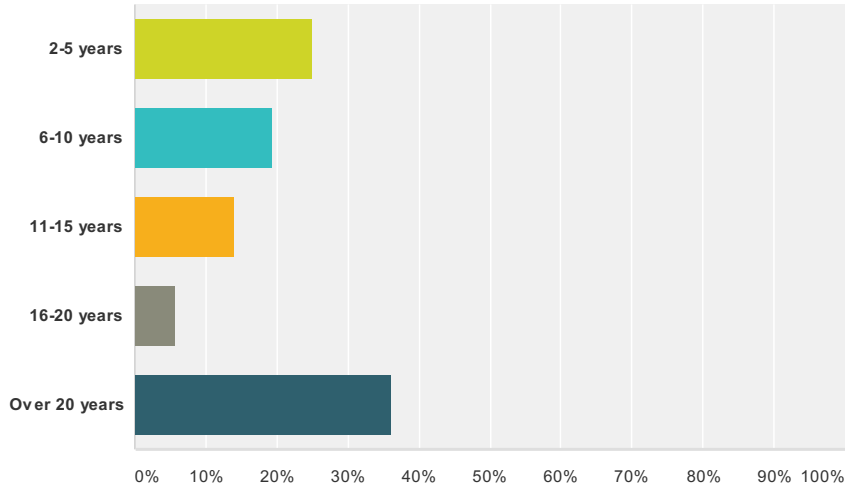
Answer Choices	Responses	
Yes	94.44%	34
No	5.56%	2
<b>Total</b>		<b>36</b>

## Exhibit 3 Low Risk Neonatal Nursing (LRN)

### 2013-2014 Low Risk Neonatal Nursing - Post Exam Feedback Survey

#### Q16 How long have you been practicing in the low risk neonatal nursing specialty?

Answered: 36 Skipped: 0



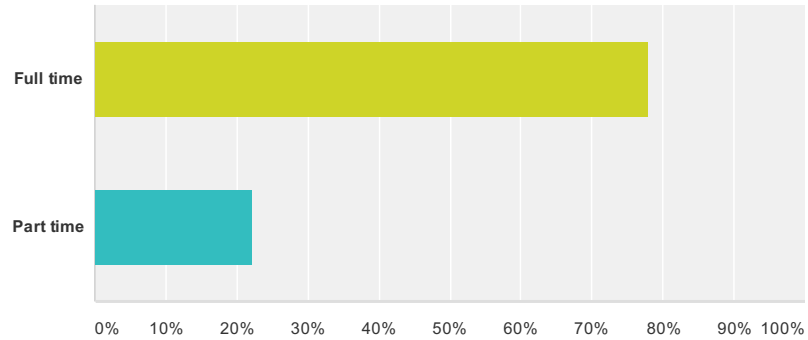
Answer Choices	Responses	
2-5 years	25.00%	9
6-10 years	19.44%	7
11-15 years	13.89%	5
16-20 years	5.56%	2
Over 20 years	36.11%	13
<b>Total</b>		<b>36</b>

## Exhibit 3 Low Risk Neonatal Nursing (LRN)

### 2013-2014 Low Risk Neonatal Nursing - Post Exam Feedback Survey

#### Q17 Do you work

Answered: 36 Skipped: 0



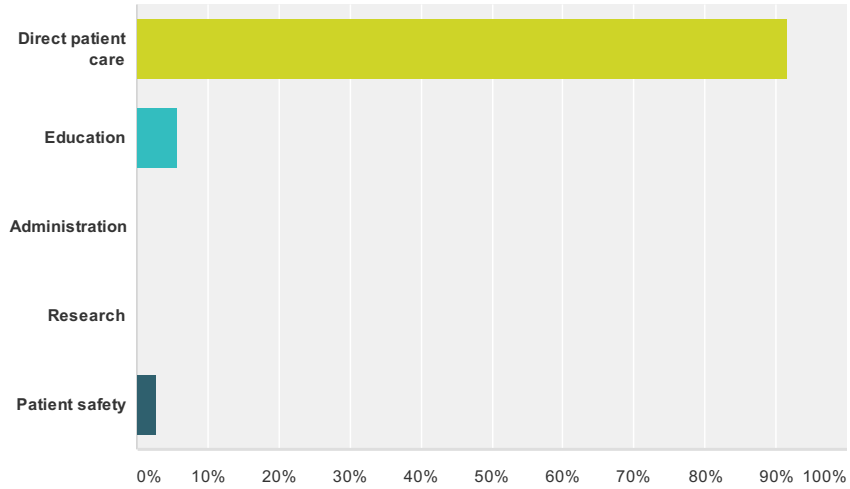
Answer Choices	Responses	
Full time	77.78%	28
Part time	22.22%	8
<b>Total</b>		<b>36</b>

## Exhibit 3 Low Risk Neonatal Nursing (LRN)

### 2013-2014 Low Risk Neonatal Nursing - Post Exam Feedback Survey

#### Q18 What is your major focus of your practice?

Answered: 36 Skipped: 0



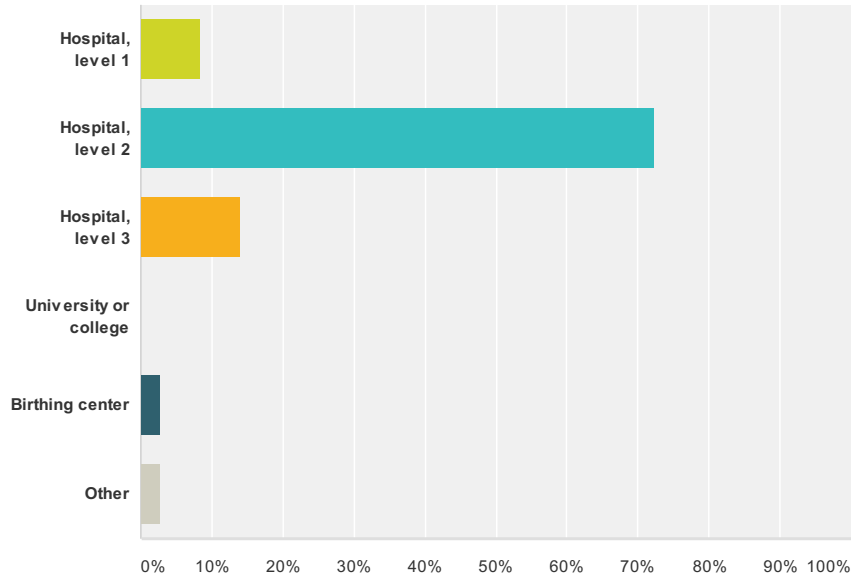
Answer Choices	Responses	Count
Direct patient care	91.67%	33
Education	5.56%	2
Administration	0.00%	0
Research	0.00%	0
Patient safety	2.78%	1
<b>Total</b>		<b>36</b>

## Exhibit 3 Low Risk Neonatal Nursing (LRN)

### 2013-2014 Low Risk Neonatal Nursing - Post Exam Feedback Survey

#### Q19 Where do you work?

Answered: 36 Skipped: 0



Answer Choices	Responses	Count
Hospital, level 1	8.33%	3
Hospital, level 2	72.22%	26
Hospital, level 3	13.89%	5
University or college	0.00%	0
Birthing center	2.78%	1
Other	2.78%	1
<b>Total</b>		<b>36</b>

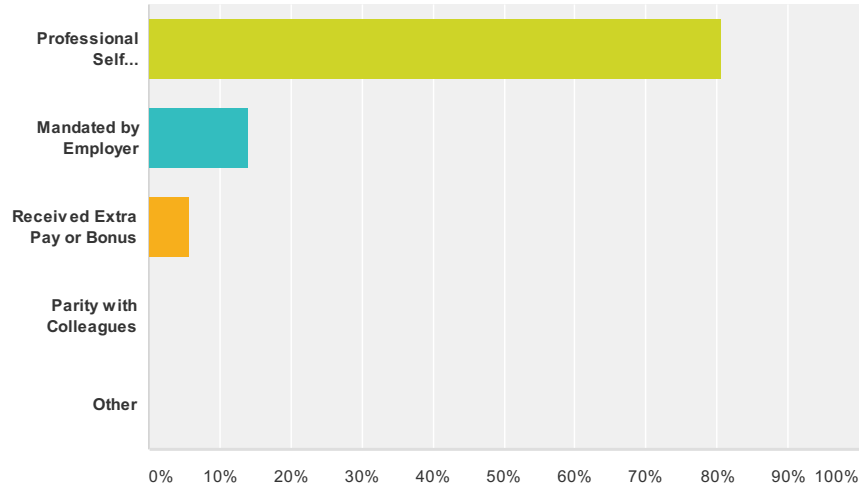


## Exhibit 3 Low Risk Neonatal Nursing (LRN)

### 2013-2014 Low Risk Neonatal Nursing - Post Exam Feedback Survey

#### Q20 Why did you primarily seek certification? (select one)

Answered: 36 Skipped: 0



Answer Choices	Responses	
Professional Self Development	80.56%	29
Mandated by Employer	13.89%	5
Received Extra Pay or Bonus	5.56%	2
Parity with Colleagues	0.00%	0
Other	0.00%	0
<b>Total</b>		<b>36</b>