

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

### **Neonatal Nurse Practitioner 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 Neonatal Nurse Practitioner (NNP).

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

The focus of the NCC certification nurse practitioner examinations is to demonstrate the entry level knowledge of the neonatal nurse practitioner.

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 NNP examinees to evaluate that the content on the exam reflects their current practice. All NNP 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 general assessment and management, the disease process and professional issues including:

- Demographics and Practice Characteristics of Certified NNPs
- 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 NNP examination. The content team identified essential knowledge, skills and abilities for this core examination and identified competencies and practice skills of the neonatal nurse practitioner. 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:

- Criteria for Evaluation of Nurse Practitioner Programs, National Organization for Nurse Practitioner Faculties (NONPF) 2012.
- Nurse Practitioner Core Competencies (NONPF) 2012
- Population-Focused Nurse Practitioner Competencies (NONPF) 2013
- Education Standards and Curriculum Guidelines for Neonatal Nurse Practitioner Programs National Association of Neonatal Nurses (NANN) and the National Association of Neonatal Nurse Practitioners (NANNP) 2014
- Scope and Standards of Advanced Practice Registered Nurses, American Nurses' Association (ANA)
- Standards for Professional Nursing Practice in the Care of Women and Newborns, AWHONN

- Neonatal Nursing: Clinical Competencies and Education Guide, AWHONN
- Pertinent literature review

The NNP Content Team based on the document review identified competencies and practice skills of the neonatal nurse practitioner. 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 Neonatal Nurse Practitioners with a valid email address (4600) 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. 608 participated in the current content validation survey, which provided an 13% 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 NNP 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 96% of NNPs work in a hospital setting in mostly Level III (73%) or Level IV (27%) neonatal units. The majority of NNPs are employed by hospitals (72%) followed by private companies (18%). Eighty-eight percent of responders held either a masters or doctoral degree while 7% held a BSN and 5% had an Associate or diploma degree. Seventy-two percent stated graduate education was required for employment. The majority of participants had over 15 years of practice (48%) and on average worked 35-45 hours a week (53%). Participants represented a broad demographic region from 50 different states. Certification was reported to be required for licensure by 85% of NNPs and 84% stated it was required for employment. The majority of NNPs provided direct patient care (88%). Twelve percent of the NNPs worked in a practice that required them to care for infants between 1 and 2 years of age.

In reviewing the survey results the first area on the survey was the core competency review. It was found that 91-100% of survey takers felt the core competencies were essential and either a frequent expectation or critical to patient outcomes for NNPs in their practice. Ninety-nine percent felt the competencies represented NNP 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 at their meeting on October 9 & 10<sup>th</sup>. These included:

- Caring for infants to the age of two
- Skills competencies
- Addition of content on
  - Effective communication
  - Understanding evidence based practice.
  - Maternal obesity and its impact on the neonate
  - Lactate levels, triglyceride levels
  - Humidity
  - Donor milk
- Review of Drugs based on prescribing practices

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 56 completed the surveys. During this time frame 247 took the examination which provided us with a 23% 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 83% had been practicing 1 year or less. Sixty-six percent of respondents are working full time (875) providing direct patient care (94%) working mostly in level III hospitals (91%). Fifty percent of examinees reported that they were obtaining certification because it was mandated by their employer. The majority of examinees felt the content areas were about right (80%) and reflected what is applied to their daily practice (96%).

Both the post-exam and the content validation surveys were reviewed at the NNP content team meeting on October 9 & 10, 2014. The reviews were used to align the exam content with current NNP practice. Content was increased under General Assessment and decreased under resuscitation and stabilization. This was done since most providers have neonatal resuscitation certificates. It was agreed that we would test out to the age of 1. After reviewing the survey and the comments the following items were added:

- Levels of evidence
- Therapeutic hypothermia
- Kangaroo care
- Vocal cord Paralysis
- Hydrolazine, Albuterol, Milrinone, Presidex, Fluconazole, Subutex, Sildenafil
- CPAM
- Contraindications and complications of circumcisions
- DiGeorge
- Deviated septum
- Micrognathia/retrognathia
- T-piece; Bag mask ventilation; NIPPV
- Non invasive ventilation management
- LMAs
- Small left Colon
- Hypophosphotemia, Vitamin K
- Pseudomonas, enterovirus, RSV
- THC

In addition the following items were removed:

- Procalcitonin
- Sibling education
- Theophyllin, narcan, tham
- Ectopic cordis

- Septic Arthritis
- Tibial Bowing
- ECMO
- Trachs

The professional section was changed to include Evidence Based Practice and Communication.

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 NNPs.

### Introduction

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

Your responses as a Board Certified NNP, 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 Neonatal Nurse Practitioner 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**

### Neonatal Nurse Practitioner (NNP) Core Competencies

The options that will be asked for each competency include

- This competency is essential and is a frequent expectation of the NNP
- This competency is essential and critical to patient outcome for the NNP but not often performed
- This competency is not essential
- This is not an expected competency of the NNP

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

	Essential and is a frequent expectation of the NNP	Essential and critical to patient outcome for the NNP but not often performed	Not essential	Not expected of the NNP
<b>Demonstrate the knowledge inherent in the role and function of the NNP in neonatal intensive care nursing.</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Apply knowledge of basic sciences to the provision of neonatal health care.</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Obtain and interpret a comprehensive perinatal history and a systematic assessment of all body systems</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Obtain clinical laboratory information and interpret the resultant data</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Institute appropriate diagnostic procedures and techniques and interpret the resultant data.</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Evaluate the benefits and risks of diagnostic and therapeutic interventions.</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Formulate a diagnosis and plan of care in collaboration with physicians and other health care professionals.</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Initiate appropriate therapeutic and educational interventions including consultations and referrals.</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Evaluate and document responses to interventions and modify the plan of care as indicated.</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Apply knowledge of basic research principles to practice.</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Use adult learning principles when teaching about the care, growth and development of the high risk infant up to one year of age.</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Maintain current knowledge regarding advances in neonatal health care.</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Integrate legal and ethical principles into neonatal health care.</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

**Are these competencies in your experience?**

- A. Representative of NNP practice
- B. Not Representative of NNP practice

# Exhibit 1 Neonatal Nurse Practitioner (NNP)

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

Are there any additional competencies that are not represented?

## General Assessment

### Perinatal Factors

Listed below are risk factors related to antepartum and intrapartum factors that can affect the newborn. Please indicate the essentiality and frequency in which you manage neonates with this maternal history of factors. *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 NNP 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

**Lifestyle risks** (check all that apply)

	Essential	Routinely seen	Occasionally seen	Rarely seen	Never seen
<b>In utero exposure to illegal drugs (cocaine, heroin etc)</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>In utero exposure to legal drugs (prescription, OTC, alcohol, nicotine)</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

**Maternal Causes - Antepartum** (check all that apply)

	Essential	Routinely seen	Occasionally seen	Rarely seen	Never seen
<b>Cardiac disease</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Diabetes</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Gestational hypertension</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Hematologic diseases</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Infections</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Maternal age</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Multiple gestation</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Pulmonary disease</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

**Maternal Causes - Intrapartum** (check all that apply)

	Essential	Routinely seen	Occasionally seen	Rarely seen	Never seen
<b>Analgesia</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Anesthesia</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Induction of labor</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Placental disorders</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Premature rupture of membranes</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Prolonged rupture of member</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Tocolysis</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>



# Exhibit 1 Neonatal Nurse Practitioner (NNP)

Are there other items that are routine to your practice that are not included in this list?

- Yes  
 No

If yes, please list specifics below

## General Assessment

### Fetal Assessment Testing

Listed below are prenatal tests. Please indicate the essentiality and frequency in which you manage neonates that have a history of these tests being performed prenatally. *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 NNP 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

**Fetal Assessment Testing** (check all that apply)

	Essential	Routinely done	Occasionally done	Rarely done	Never done
<b>Alphafetoprotein levels</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Amniocentesis</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Biophysical profile</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Fetal arterial doppler blood flow</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Tests for lung maturity</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Triple or quad screen</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Ultrasound</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Are there other items that are routine to your practice that are not included in this list?

- Yes  
 No

If yes, please list specifics below

## General Assessment

### Neonatal

Listed below are a variety of physical assessments. Please indicate the essentiality and frequency in which neonates require these types of assessments. *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 NNP 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

# Exhibit 1 Neonatal Nurse Practitioner (NNP)

## Physical and Gestational Age Assessment (check all that apply)

	Essential	Routinely done	Occasionally done	Rarely done	Never Asked or Performed
Autonomic control/responses	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Neurosensory capabilities	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Behavioral assessment	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Genetic work up	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Gestational age assessment	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Head-to-toe exam	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Neurological exam	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Neonatal states	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Ophthalmologic exam	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Are there other items that are routine to your practice that are not included in this list?

- Yes  
 No

If yes, please list specifics below

## General Assessment

### Family Integration

Listed below are a variety of aspects of promoting family integration in the time of crisis, discharge planning and continuity of care. Please indicate the essentiality and frequency in which you encounter these situations in your practice. *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 NNP 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

### Family Integration and Communication (check all that apply)

	Essential	Routinely	Occasionally	Rarely	Never
Identification of grief discordance between parents	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Prevention of cultural misunderstandings	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Prevention of miscommunication with staff and parents	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Siblings education	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

### Grieving Process (check all that apply)

	Essential	Routinely	Occasionally	Rarely	Never
Application of the knowledge of stages of grief	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Education of parents to deal with sibling grief response	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Identification of factors that may impede the normal grief process	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Recognition of gender differences in the grief process	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

### Discharge Planning and Follow up (check all that apply)

# Exhibit 1 Neonatal Nurse Practitioner (NNP)

	Essential	Routinely done	Occasionally done	Rarely done	Never done
Anticipatory guidance to parents	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Education on developmental milestones	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Education on follow up screening	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Education on future health risks	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Education on growth and nutrition	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Education on hearing testing	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Education on vision testing	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Are there other items that are routine to your practice that are not included in this list?

- Yes  
 No

If yes, please list specifics below

## General Assessment

### Laboratory Testing and Diagnostic Evaluation

For the following tests and diagnostic studies indicate the frequency, essentiality and nature of what you are responsible for in regard to the specific assessments listed. *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 NNP 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

### Laboratory Testing and Diagnostic Evaluation (Check all that apply)

	Essential	Routinely done	Occasionally done	Rarely done	No longer used	Perform	Order	Interpret Results	Explain results
Arterial blood gas	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Bilirubin (total)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Blood culture	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Blood glucose	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Blood type and Rh	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BUN and creatinine	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
C-reactive protein	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Calcium and Phosphorous	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Clotting studies	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Complete blood count	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<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"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
CT and MRI	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Drug levels (troughs)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
ECHO	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
EEG and VEEG	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
EKG	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Electrolyte panel	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

# Exhibit 1 Neonatal Nurse Practitioner (NNP)

Fecal occult blood testing	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Genetic screening	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Hct and Hgb	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Hepatitis screening	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
HIV screening	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Liver function studies	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Magnesium	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Procalcitonin	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sickle cell screen	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Spinal fluid analysis	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Thyroid studies	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Ultrasound	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Urinalysis	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<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"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Venous blood gas	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Vitamin D levels	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
White blood cell with differential	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
X-rays	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

If Other (please specify)

Are there other laboratory test or procedures that are routine to your practice that are not included in this list?

Yes

No

If yes, please list specifics below

## General Management

### Thermoregulation

Listed below are a variety of issues related to thermoregulation. Please indicate the essentiality and frequency in which you encounter or need requisite to manage your patients. *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 NNP 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

Thermoregulation (check all that apply)

	Essential	Routinely seen/done	Occasionally seen/done	Rarely seen/done	Never seen/done
Application of knowledge that puts neonates at risk for hypothermia	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

# Exhibit 1 Neonatal Nurse Practitioner (NNP)

Application of the knowledge of the neutral thermal environment	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Application of the knowledge of thermoregulation physiology	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Heat loss by conduction	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Heat loss by convection	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Heat loss by evaporation	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Heat loss by radiation	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Hyperthermia	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Hypothermia	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Induced hypothermia for HIE	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Use of temperature assessment techniques	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Are there other items that are routine to your practice that are not included in this list?

- Yes  
 No

If yes, please list specifics below

## General Management

### Fluids and Electrolytes

Listed below are a variety of issues related to fluid and electrolyte management. Please indicate the essentiality and frequency in which you encounter or need the requisite knowledge to manage your patients. *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 NNP 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

### Fluids and Electrolytes (check all that apply)

	Essential	Routinely seen/done	Occasionally seen/done	Rarely seen/done	Never seen/done
Acid base balance	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Factors contributing to insensible water loss	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Hypercalcemia	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Hyperkalemia	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Hypernatremia	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Hyperphosphatemia	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Hypocalcemia	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Hypokalemia	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Hyponatremia	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Hypophosphatemia	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Knowledge of electrolyte requirements	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Knowledge of fluid requirements	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Knowledge of preventing factors for fluid and electrolyte imbalance	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Knowledge of water balance physiology	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

# Exhibit 1 Neonatal Nurse Practitioner (NNP)

Are there other items that are routine to your practice that are not included in this list?

- Yes  
 No

If yes, please list specifics below

## General Management

### Nutrition

Listed below are a variety of issues related to nutritional management. Please indicate the essentiality and frequency in which you encounter or need the requisite knowledge to manage your patients. *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 NNP 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** (check all that apply)

	Essential	Routinely seen/done	Occasionally seen/done	Rarely seen/done	Never seen/done
Breastfeeding and its benefits	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Enteral nutrition	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Gavage feeding	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Knowledge of digestion and absorption processes	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Knowledge of formula composition and indications for use	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Knowledge of human milk composition	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Knowledge of lactation physiology	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Knowledge of milk storage	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Knowledge of nutritional requirements	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Knowledge of nutritional supplements	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Parenteral nutrition	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Special nutritional needs of the late preterm infant	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Special nutritional needs of the preterm infant	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Are there other items that are routine to your practice that are not included in this list?

- Yes  
 No

If yes, please list specifics below

## General Management

# Exhibit 1 Neonatal Nurse Practitioner (NNP)

## Resuscitation

Listed below are a variety of issues related to infants requiring resuscitation and stabilization. Please indicate the essentiality and frequency in which you encounter or need the requisite knowledge to manage a neonate requiring resuscitation. *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 NNP 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

**Resuscitation** (check all that apply)

	Essential	Routinely seen/done	Occasionally seen/done	Rarely seen/done	Never seen/done
<b>Cord blood analysis</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Delivery room assessment</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Infants requiring chest compressions</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Infants requiring endotracheal intubation</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Infants requiring fluid resuscitation</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Infants requiring laryngeal mask airway insertion</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Infants requiring positive pressure ventilation</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Infants requiring resuscitation medications</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Infants requiring suctioning</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Infants requiring tactile stimulation</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Knowledge of physiologic basis for resuscitation intervention</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Knowledge of physiology and anatomy of transition to extrauterine life</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Neonatal transport</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Are there other items that are routine to your practice that are not included in this list?

- Yes  
 No

If yes, please list specifics below

## The Disease Process

### Cardiac and Pulmonary Care

Indicate below the frequency, essentiality and nature of your practice regarding cardiac and pulmonary care for the critically, chronically and convalescing neonate. *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 NNP 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

In addition, for each item please indicate your primary responsibility for diagnosis, management, collaboration, education and referral.

Example:

- Respiratory distress syndrome - diagnosis, manage, educate

# Exhibit 1 Neonatal Nurse Practitioner (NNP)

- Ambiguous genitalia - diagnosis, refer
- Tetralogy of Fallot- diagnosis, refer, collaborate, educate
- Car seat safety - educate

## Cardiac and Pulmonary Care (Check all that apply)

	Essential	Routinely seen	Occasionally seen	Rarely seen	Never seen	Diagnose	Manage	Collaborate	Educate	Refer
Abnormal cardiac rhythms	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Abnormal heart sounds	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Aortic stenosis	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Apnea of prematurity	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Atrial septal defect	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Atrioventricular septal defect	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Bronchopulmonary dysplasia/chronic lung disease	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Coarctation of the aorta (interrupted arch)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Congenital cardiac defects	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<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"/>	<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"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Ebstein anomaly	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Ectopic cordis	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Endocardial cushion defect	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Hypertension	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Hypoplastic left heart syndrome	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Hypoplastic lungs	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Hypotension	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Laryngeal tracheomalacia/stenosis	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Meconium aspiration	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Oxygen delivery	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<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"/>	<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"/>	<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"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Pulmonary air leaks	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Pulmonary hemorrhage	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Respiratory distress	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<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"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Shock	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Systemic inflammatory response system (SIRS)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<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"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Total anomalous venous return	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Transient tachypnea of the newborn	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<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"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Tricuspid atresia	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Truncus arteriosus	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Ventilator associated infections	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>



# Exhibit 1 Neonatal Nurse Practitioner (NNP)

Ventilator management	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Ventricular septal defect	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Are there other items that are routine to your practice that are not included in this list?

- Yes  
 No

If yes, please list specifics below

## The Disease Process

### Gastrointestinal and Renal/Genitourinary Care

Indicate below the frequency, essentiality and nature of your practice regarding GI/renal and genitourinary care for the critically, chronically and convalescing neonate. *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 NNP 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

In addition, for each item please indicate your primary responsibility for diagnosis, management, collaboration, education and referral. Example:

- Respiratory distress syndrome - diagnosis, manage, educate
- Ambiguous genitalia - diagnosis, refer
- Tetralogy of Fallot- diagnosis, refer, collaborate, educate
- Car seat safety - educate

### GI/Renal and Genitourinary Care (Check all that apply)

	Essential	Routinely seen	Occasionally seen	Rarely seen	Never seen	Diagnose	Manage	Collaborate	Educate	Refer
Abdominal mass	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Abdominal wall defects	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Acute renal failure/insufficiency	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Adrenal insufficiency	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Ambiguous genitalia	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Anomalies/obstruction of the upper and/or lower GI tract	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Cystic fibrosis	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Diarrhea	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Digestive and absorptive disorders	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Disorders of suck, swallow, motility	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Duplications	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Exstrophy of the bladder	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
High output renal failure	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Hydronephrosis/ureter	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Hypercalcemia	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Hyperglycemia	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Hypermagnesemia	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Hypocalcemia	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

# Exhibit 1 Neonatal Nurse Practitioner (NNP)

Hypoglycemia	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Hypomagnesemia	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Hypospadias/epispadias	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Inborn error of metabolism	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Infant of a diabetic mother	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<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"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Inperforate anus	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Malabsorption/maldigestion	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Meconium aspiration	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Necrotizing enterocolitis	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Obstructions	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Osteopenia/rickets	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Perforations	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Polycystic/dysplastic kidneys	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Renal vein/artery thrombosis	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Short gut syndrome	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Testicular torsion	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Thyroid disease	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Tracheoesophageal fistula	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Urinary outflow tract obstruction	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Are there other items that are routine to your practice that are not included in this list?

- Yes  
 No

If yes, please list specifics below

## The Disease Process

### Hematopoietic and Infectious Disease

Indicate below the frequency, essentiality and nature of your practice regarding hematopoietic and infectious disease for the critically, chronically and convalescing neonate. *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 NNP 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

In addition, for each item please indicate your primary responsibility for diagnosis, management, collaboration, education and referral. Example:

- Respiratory distress syndrome - diagnosis, manage, educate
- Ambiguous genitalia - diagnosis, refer
- Tetralogy of Fallot- diagnosis, refer, collaborate, educate
- Car seat safety - educate

### Hematopoietic and Infectious Disease (Check all that apply)

Essential      Routinely seen      Occasionally seen      Rarely seen      Never seen      Diagnose      Manage      Collaborate      Educate      Refer

# Exhibit 1 Neonatal Nurse Practitioner (NNP)

Anemia	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Breast milk jaundice	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Candidiasis	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Chlamydia/gonorrhea	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<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"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Disseminated intravascular coagulation	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
E.Coli infection	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Enterococcus infection	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Group B strep infection	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Hematological disorders	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Hemorrhagic disease of the newborn	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<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"/>	<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"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
HIV/AIDS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Hospital acquired infections	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Hyperbilirubinemia	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Infection control and universal precautions	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Kernicterus	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Klebsiella infection	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Liver disease	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Meningitis	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Methicillin resistant staphylococcus infections (MRSA)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Neutropenia/neutrophilia	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Osteomyelitis	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Polycythemia	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Rh Disease/ABO incompatibility	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Rubella	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Septic arthritis	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Septic shock	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Staphylococcal infections	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Syphilis	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Thrombocytopenia	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Thrombocytosis	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Toxoplasmosis	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Varicella	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Are there other items that are routine to your practice that are not included in this list?

- Yes
- No

If yes, please list specifics below

# Exhibit 1 Neonatal Nurse Practitioner (NNP)

## The Disease Process

### Musculoskeletal and Integumentary

Indicate below the frequency, essentiality and nature of your practice regarding musculoskeletal and integumentary care for the critically, chronically and convalescing neonate. *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 NNP 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

In addition, for each item please indicate your primary responsibility for diagnosis, management, collaboration, education and referral.

Example:

- Respiratory distress syndrome - diagnosis, manage, educate
- Ambiguous genitalia - diagnosis, refer
- Tetralogy of Fallot- diagnosis, refer, collaborate, educate
- Car seat safety - educate

### Musculoskeletal and Integumentary (Check all that apply)

	Essential	Routinely seen	Occasionally seen	Rarely seen	Never seen	Diagnose	Manage	Collaborate	Educate	Refer
<b>Abnormalities of the skeleton</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Achondroplasia</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Acute skin conditions, e.g contact dermatitis</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Arthrogyposis</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Auricular tags</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Clubfoot</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Dislocation of the hip</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Ecchymosis</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Epidermolysis bullosa</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Erythema toxicum</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Fractures</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Hemangiomas</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Hyperpigmentation</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Hypopigmentation</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Metatarsus adductus</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Milia/miliara</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Mongolian spots (hyperpigmented nevus)</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Musculoskeletal birth injuries</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Neonatal pustula melanosis</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Petechiae</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Port wine stains</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Scoliosis</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Skin disorders</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Subcutaneous fat necrosis</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Tibial bowing</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

# Exhibit 1 Neonatal Nurse Practitioner (NNP)

Torticollis

Are there other items that are routine to your practice that are not included in this list?

Yes

No

If yes, please list specifics below

## The Disease Process

### Genetics and Neurological

Indicate below the frequency, essentiality and nature of your practice regarding genetics and neurological care for the critically, chronically and convalescing neonate. *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 NNP 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

In addition, for each item please indicate your primary responsibility for diagnosis, management, collaboration, education and referral. Example:

- Respiratory distress syndrome - diagnosis, manage, educate
- Ambiguous genitalia - diagnosis, refer
- Tetralogy of Fallot- diagnosis, refer, collaborate, educate
- Car seat safety - educate

### Genetics and Neurological (Check all that apply)

	Essential	Routinely seen	Occasionally seen	Rarely seen	Never seen	Diagnose	Manage	Collaborate	Educate	Refer
<b>Beckwith syndrome</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Chromosomal anomalies</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Cleft lip and palate</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Deletion/duplication</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Galactosemia</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Holoprosencephaly</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Hydrocephalus</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Hyperammonemia</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Hypoxic ischemic encephalopathy</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<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"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Intraventricular hemorrhage</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<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"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Multifactorial inheritance</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Neural tube defects</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Nondisjunction</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Osteogenesis imperfecta</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>PKU</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

# Exhibit 1 Neonatal Nurse Practitioner (NNP)

Potter syndrome	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Seizures	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sex linked inheritance	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Subdurals	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Translocation	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Trisomy 13	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Trisomy 18	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Trisomy 21	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Turner syndrome	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
VACTERL/VATER syndrome	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Are there other items that are routine to your practice that are not included in this list?

- Yes  
 No

If yes, please list specifics below

## The Disease Process

### Ears, Eyes, Nose and Mouth/Throat and Drug Exposure

Indicate below the frequency, essentiality and nature of your practice regarding ears, eyes, nose and mouth/throat and drug exposure care for the critically, chronically and convalescing neonate. *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 NNP 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

In addition, for each item please indicate your primary responsibility for diagnosis, management, collaboration, education and referral. Example:

- Respiratory distress syndrome - diagnosis, manage, educate
- Ambiguous genitalia - diagnosis, refer
- Tetralogy of Fallot- diagnosis, refer, collaborate, educate
- Car seat safety - educate

### Ears, Eyes, Nose and Mouth/Throat and Drug Exposure (Check all that apply)

	Essential	Routinely seen	Occasionally seen	Rarely seen	Never seen	Diagnose	Manage	Collaborate	Educate	Refer
Cataracts	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Cleft lip and palate	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Coloboma	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<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"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Corneal abrasion	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Eye prophylaxis	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Fetal alcohol syndrome	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Glaucoma	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Malformation of the ears	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

# Exhibit 1 Neonatal Nurse Practitioner (NNP)

Nasolacrimal duct obstruction	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Neonatal withdrawal	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Retinopathy of prematurity	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Strabismus	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Are there other items that are routine to your practice that are not included in this list?

- Yes  
 No

If yes, please list specifics below

## Pharmacology

### Pharmacology

Listed below are a variety of issues related to pharmacology. Please indicate the essentiality and frequency in which you encounter or need the requisite knowledge regarding pharmacologic action of neonatal drugs. *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 NNP 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 (check all that apply)

	Essential	Routinely	Occasionally	Rarely	Never
Knowledge of pharmacokinetics (absorption, distribution, etc.)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Principles of administration (dosage, route, etc)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Principles of placental drug transfer	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

What **drug categories** do you prescribe on a routine basis. *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.*

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

	Prescribe routinely	Prescribe occasionally	Prescribe rarely	Never prescribe
Analgesics/narcotics	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Anesthetics/paralytics	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Antacids/GI motility	<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"/>
Antidysrhythmia drugs	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Antifungals	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Antihypertensives	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Antivirals	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Betablockers	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

# Exhibit 1 Neonatal Nurse Practitioner (NNP)

Bronchodilators	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Calcium channel blockers	<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"/>
Ferrous Sulphate	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Hypoglycemic agents	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Immunoglobulins	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Inhaled nitric oxide	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Inotropes	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Respiratory stimulants	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sedatives/hypnotics	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Steroids	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Surfactant	<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"/>
Vasodilators	<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"/>
Other	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

If Other (please specify)

## Skills

### Specified Skills - General Assessment

Listed below are a variety of skills used in providing care to the neonate and family. Please indicate the frequency and the knowledge essentiality applicable to the performance of these skills as it applies to the neonates 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 NNP 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 - General Assessment (check all that apply)

	Essential	Routinely done	Occasionally done	Rarely done	Never done
Auscultate heart and lungs	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Conduct a physical exam	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Determine gestational age	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Determine perinatal factors (antepartum and intrapartum) that affect the neonate.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Document maternal conditions, treatments and delivery room history that impact the newborn.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Document maternal labs and diagnostic procedures that impact the neonate	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Evaluate clinical laboratory tests results	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Evaluate results of diagnostic procedures	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Evaluate the appropriate growth of the infant at birth (AGA, SGA, LGA)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Formulate a diagnosis and plan of care	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>



# Exhibit 1 Neonatal Nurse Practitioner (NNP)

Identify barriers to parent/infant interactions	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Maintain and apply knowledge of equipment used in practice	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Obtain family history and address factors affecting family integration	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Order diagnostic procedures	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Palpate abdominal structures	<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 neurological assessment	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Perform maternal consultations	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Perform newborn consultations	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Plan the discharge and follow up needs	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Review fetal assessments, ultrasounds and diagnostics tests that impact care	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Utilize adult learning principles when teaching others	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Utilize knowledge of growth and development for the high risk infant up to 1 year of age	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Utilize your knowledge of the grieving process	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Are there other skills that are routine to your practice that are not included in this list?

Yes

No

If yes, please list specifics below

## Skills

### Specified Skills - Diagnostic Procedures, Techniques and Equipment

Listed below are a variety of skills used in diagnostic procedures, techniques and equipment. Please indicate the frequency and the knowledge essentiality applicable to the performance of these skills as it applies to the neonates 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 NNP 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 - Diagnostic Procedures, Techniques and Equipment (check all that apply)

Order and evaluate the following:

	Essential	Routinely done	Occasionally done	Rarely done	Never done
CT Scan	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
ECHO	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
EEG	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
EKG	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Head Ultrasounds	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
MRI	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
x-rays	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

# Exhibit 1 Neonatal Nurse Practitioner (NNP)

## Perform the following

	Essential	Routinely done	Occasionally done	Rarely done	Never done
Arterial stick	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Bag mask ventilation	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Chest compressions	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Chest tube insertion	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Chest tube removal	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Exchange Transfusion	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Intubation	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Lumbar puncture	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Needle aspiration	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Ophthalmologic exam	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Otoscopic exam	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Peripheral arterial line (PAL)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Peripherally inserted central catheter (PICC)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Suprapubic bladder tap	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
T-piece ventilation	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Umbilical catheterization	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Urinary catheterization	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Venous stick	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

## Order, manage infants on and trouble shoot the following:

	Essential	Routinely done	Occasionally done	Rarely done	Never done
CPAP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
ECMO	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
End tidal CO2 monitoring	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
High flow cannulae	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
High frequency ventilators	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Incubators and radiant warmers	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Invasive and noninvasive blood gas monitoring	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Neonatal conventional ventilators	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Phototherapy	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Tracheostomies	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Are there other skills that are routine to your practice that are not included in this list?

Yes

No

If yes, please list specifics below

# Exhibit 1 Neonatal Nurse Practitioner (NNP)

## Specified Skills - General Management

Listed below are a variety of skills used in providing care to the neonate. Please indicate the frequency and the knowledge essentiality applicable to the performance of these skills as it applies to the neonates 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 NNP 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 - General Management (check all that apply)

	Essential	Routinely done	Occasionally done	Rarely done	Never done
Develop feeding plans	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Document plan of care and response to interventions	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Evaluate and respond to drug levels	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Evaluate drug interactions	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Evaluate drugs and breast-feeding	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Evaluate the nutritional status of the neonate using key indicators	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Formulate the diagnosis and plan of care with an inter-professional team	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Maintain current knowledge about advances in neonatal care	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Make consultations and referrals	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Manage fluid and electrolytes	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Manage infant's acid/base status	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Manage infants during transport	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Manage the enteral nutritional needs of the neonate	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Manage the thermoregulation of the neonate	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Modify the plan of care based on ongoing evaluation	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Monitor the side-effects of drugs	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Order appropriate drugs, dosage, interval and route	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Order drips (i.e. pressors, prostins)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Order parenteral fluids	<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 neonatal resuscitation	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Provide neonatal stabilization	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Are there other skills that are routine to your practice that are not included in this list?

- Yes  
 No

If yes, please list specifics below

## Professional Practice

### Professional Issues

Which of the following professional issues are essential to the NNP practice?

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	Yes	No
<b>Ethical Issues</b>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Evidence-Based Practice</b>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Informed Consent</b>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Legal Issues</b>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Nursing Research</b>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Patient Safety</b>	<input type="checkbox"/>	<input type="checkbox"/>

Are there other items that are routine 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?

### Core Competency Areas

	Under-represented	Over-represented	Just about right
<b>General Assessment at 15-20%</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>General Management at 20-30%</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>The Disease Process at 45-55%</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?

### General Assessment

	Yes	No	Don't Know
<b>Perinatal</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Neonatal</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Family Integration</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

### General Management

	Yes	No	Don't Know
<b>Thermoregulation</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Resuscitation &amp; Stabilization</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Nutrition</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Fluids and Electrolytes</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Pharmacology</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

### The Disease Process

(Embryology, Physiology and Pathophysiology)

	Yes	No	Don't Know
<b>Cardiac</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Pulmonary</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

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Gastrointestinal	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Renal/Genitourinary	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Metabolic/Endocrine	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Hematopoietic	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Infectious Diseases	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Musculoskeletal	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Integumentary	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Genetics	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Neurological	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Ears, Eyes, Nose & Mouth/Throat	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Intrauterine Drug Exposure	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

## Professional Issues

	Yes	No	Don't Know
Principles of Nursing Research	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Legal/Ethical Issues	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Patient Safety	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

## Demographic Information

### What best describes your practice setting?

- Hospital
- Follow Up Clinic
- Primary Care
- Academic setting
- Administration
- Research
- Other

### 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

- Are you employed by a
- Hospital
- Government Agency
- Private company
- Other

### If Other (please specify)

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## What is your highest level of education?

- Doctorate - Ph.D
- Doctorate - DNP
- Post Master's
- Master's
- Baccalaureate
- Associate
- Diploma
- Other

### If Other (please specify)

## What is your job title?

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

### If Other (please specify)

## Was your basic Neonatal Nurse Practitioner training

- Certificate based
- Graduate Degree

## How many hours a week do you work as an NNP (clinical practice, education, research and Administration)?

- 46 hours or more
- 35-45 hours
- 20-34 hours
- less than 20 hours
- Not working as an NNP at this time
- Retired

## How long have you been a NNP?

- 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 Board Certification as a Neonatal Nurse Practitioner (check all that apply)

- Being NCC Board Certified is required for licensure
- Being NCC Board Certified is required for employment

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

**Please specify other employer-based recognition**

**Is Graduate Education required for your employment?**

- Yes
- No

**What is the focus of your practice:**

- Direct patient care
- Education
- Management
- Research
- Unemployed
- Retired
- Other

**If Other (please specify)**

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

Direct patient care	<input type="text"/>
Education	<input type="text"/>
Management	<input type="text"/>
Research	<input type="text"/>

**Does your practice include caring for infants between 1 and 2 years.**

- Yes
- No

**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 Neonatal Nurse Practitioner (NNP)</b>		# per answer option	% per answer option	Total per item
<b>Questions</b>	<b>Answer Options</b>			
<b>Neonatal Nurse Practitioner Core Competencies</b>				
Demonstrate the knowledge inherent in the role and function of the NNP in neonatal intensive care nursing.	Essential and is a frequent expectation of the NNP	1,000	93.81%	1066
	Essential and critical to patient outcome for the NNP but not often performed	54	5.07%	
	Not essential	11	1.03%	
	Not expected of the NNP	1	0.09%	
Apply knowledge of basic sciences to the provision of neonatal health care.	Essential and is a frequent expectation of the NNP	969	91.50%	1059
	Essential and critical to patient outcome for the NNP but not often performed	83	7.84%	
	Not essential	5	0.47%	
	Not expected of the NNP	2	0.19%	
Obtain and interpret a comprehensive perinatal history and a systematic assessment of all body systems	Essential and is a frequent expectation of the NNP	1,001	94.26%	1062
	Essential and critical to patient outcome for the NNP but not often performed	59	5.56%	
	Not essential	1	0.09%	
	Not expected of the NNP	1	0.09%	
Obtain clinical laboratory information and interpret the resultant data	Essential and is a frequent expectation of the NNP	1,033	97.36%	1061
	Essential and critical to patient outcome for the NNP but not often performed	28	2.64%	
	Not essential	0	0%	
	Not expected of the NNP	0	0%	
Institute appropriate diagnostic procedures and techniques and interpret the resultant data.	Essential and is a frequent expectation of the NNP	999	94.07%	1062
	Essential and critical to patient outcome for the NNP but not often performed	61	5.74%	
	Not essential	1	0.09%	
	Not expected of the NNP	1	0.09%	
Evaluate the benefits and risks of diagnostic and therapeutic interventions.	Essential and is a frequent expectation of the NNP	948	89.43%	1060
	Essential and critical to patient outcome for the NNP but not often performed	110	10.38%	
	Not essential	0	0%	
	Not expected of the NNP	2	0.19%	
Formulate a diagnosis and plan of care in collaboration with physicians and other health care professionals.	Essential and is a frequent expectation of the NNP	1,026	96.98%	1058
	Essential and critical to patient outcome for the NNP but not often performed	31	2.93%	
	Not essential	0	0%	
	Not expected of the NNP	1	0.09%	



<b>Exhibit 2 Neonatal Nurse Practitioner (NNP)</b>		<b># per answer option</b>	<b>% per answer option</b>	<b>Total per item</b>
<b>Questions</b>	<b>Answer Options</b>			
Initiate appropriate therapeutic and educational interventions including consultations and referrals.	Essential and is a frequent expectation of the NNP	928	87.71%	1058
	Essential and critical to patient outcome for the NNP but not often performed	128	12.10%	
	Not essential	1	0.09%	
	Not expected of the NNP	1	0.09%	
Evaluate and document responses to interventions and modify the plan of care as indicated.	Essential and is a frequent expectation of the NNP	1,004	94.72%	1060
	Essential and critical to patient outcome for the NNP but not often performed	54	5.09%	
	Not essential	1	0.09%	
	Not expected of the NNP	1	0.09%	
Apply knowledge of basic research principles to practice.	Essential and is a frequent expectation of the NNP	623	59.00%	1056
	Essential and critical to patient outcome for the NNP but not often performed	366	34.66%	
	Not essential	63	5.97%	
	Not expected of the NNP	4	0.38%	
Use adult learning principles when teaching about the care, growth and development of the high risk infant up to one year of age.	Essential and is a frequent expectation of the NNP	615	58.57%	1050
	Essential and critical to patient outcome for the NNP but not often performed	335	31.90%	
	Not essential	76	7.24%	
	Not expected of the NNP	24	2.29%	
Maintain current knowledge regarding advances in neonatal health care.	Essential and is a frequent expectation of the NNP	954	90.08%	1059
	Essential and critical to patient outcome for the NNP but not often performed	102	9.63%	
	Not essential	3	0.28%	
	Not expected of the NNP	0	0%	
Integrate legal and ethical principles into neonatal health care.	Essential and is a frequent expectation of the NNP	816	78.16%	1044
	Essential and critical to patient outcome for the NNP but not often performed	206	19.73%	
	Not essential	19	1.82%	
	Not expected of the NNP	3	0.29%	
Are these competencies in your experience?	A. Representative of NNP practice	1053	99.06%	1063
	B. Not Representative of NNP practice	10	0.94%	
<b>General Assessment</b>				
<b>Perinatal Factors-</b> Listed below are risk factors related to antepartum and intrapartum factors that can affect the newborn. Please				
<b>Lifestyle risks</b>				
In utero exposure to illegal drugs (cocaine, heroin etc)	Essential	550	83.97%	
	Routinely seen	350	53.44%	
	Occasionally seen	109	16.64%	

<b>Exhibit 2 Neonatal Nurse Practitioner (NNP)</b>		# per answer option	% per answer option	Total per item
<b>Questions</b>	<b>Answer Options</b>			
	Rarely seen	4	0.61%	655
	Never seen	1	0.15%	
In utero exposure to legal drugs (prescription, OTC, alcohol, nicotine)	Essential	557	84.39%	660
	Routinely seen	390	59.09%	
	Occasionally seen	65	9.85%	
	Rarely seen	2	0.30%	
	Never seen	0	0%	
<b>Maternal Causes - Antepartum</b>				
Cardiac disease	Essential	402	58.43%	688
	Routinely seen	151	21.95%	
	Occasionally seen	314	45.64%	
	Rarely seen	120	17.44%	
	Never seen	3	0.44%	
Diabetes	Essential	608	88.37%	688
	Routinely seen	439	63.81%	
	Occasionally seen	21	3.05%	
	Rarely seen	1	0.15%	
	Never seen	0	0%	
Gestational hypertension	Essential	603	87.01%	693
	Routinely seen	433	62.48%	
	Occasionally seen	22	3.17%	
	Rarely seen	6	0.87%	
	Never seen	1	0.14%	
Hematologic diseases	Essential	435	62.95%	691
	Routinely seen	163	23.59%	
	Occasionally seen	325	47.03%	
	Rarely seen	96	13.89%	
	Never seen	1	0.14%	
Infections	Essential	599	86.56%	692
	Routinely seen	389	56.21%	
	Occasionally seen	79	11.42%	
	Rarely seen	13	1.88%	
	Never seen	0	0%	
Maternal age	Essential	523	75.91%	689
	Routinely seen	442	64.15%	
	Occasionally seen	62	9.00%	
	Rarely seen	10	1.45%	
	Never seen	1	0.15%	
Multiple gestation	Essential	565	81.88%	690
	Routinely seen	428	62.03%	
	Occasionally seen	61	8.84%	
	Rarely seen	5	0.72%	
	Never seen	0	0%	
Pulmonary disease	Essential	407	59.33%	
	Routinely seen	148	21.57%	
	Occasionally seen	285	41.55%	

<b>Exhibit 2 Neonatal Nurse Practitioner (NNP)</b>		# per answer option	% per answer option	Total per item
<b>Questions</b>	<b>Answer Options</b>			
	Rarely seen	139	20.26%	686
	Never seen	6	0.87%	
<b>Maternal Causes - Intrapartum</b>				
Analgesia	Essential	569	82.23%	692
	Routinely seen	403	58.24%	
	Occasionally seen	79	11.42%	
	Rarely seen	15	2.17%	
	Never seen	0	0%	
Anesthesia	Essential	576	83.12%	693
	Routinely seen	393	56.71%	
	Occasionally seen	80	11.54%	
	Rarely seen	19	2.74%	
	Never seen	0	0%	
Induction of labor	Essential	572	82.78%	691
	Routinely seen	451	65.27%	
	Occasionally seen	30	4.34%	
	Rarely seen	4	0.58%	
	Never seen	0	0%	
Placental disorders	Essential	545	78.87%	691
	Routinely seen	308	44.57%	
	Occasionally seen	178	25.76%	
	Rarely seen	30	4.34%	
	Never seen	1	0.14%	
Premature rupture of membranes	Essential	623	89.77%	694
	Routinely seen	432	62.25%	
	Occasionally seen	21	3.03%	
	Rarely seen	4	0.58%	
	Never seen	0	0%	
Prolonged rupture of member	Essential	611	88.68%	689
	Routinely seen	420	60.96%	
	Occasionally seen	36	5.22%	
	Rarely seen	3	0.44%	
	Never seen	1	0.15%	
Tocolysis	Essential	550	80.17%	686
	Routinely seen	436	63.56%	
	Occasionally seen	47	6.85%	
	Rarely seen	10	1.46%	
	Never seen	0	0%	
Are there other items that are routine to your practice that are not included in this list?	Yes	49	7.63%	642
	No	593	92.37%	
<b>Fetal Assessment Testing</b> - Listed below are prenatal tests. Please indicate the essentiality and frequency in which you manage neonates that have a history of these tests being performed prenatally.				
Alphafetoprotein levels	Essential	400	58.82%	
	Routinely done	305	44.85%	
	Occasionally done	213	31.32%	
	Rarely done	38	5.59%	

<b>Exhibit 2 Neonatal Nurse Practitioner (NNP)</b>		# per answer option	% per answer option	Total per item
<b>Questions</b>	<b>Answer Options</b>			
	Never done	19	2.79%	680
Amniocentesis	Essential	393	57.88%	679
	Routinely done	232	34.17%	
	Occasionally done	284	41.83%	
	Rarely done	48	7.07%	
	Never done	15	2.21%	
Biophysical profile	Essential	526	77.01%	683
	Routinely done	423	61.93%	
	Occasionally done	62	9.08%	
	Rarely done	8	1.17%	
	Never done	14	2.05%	
Fetal arterial doppler blood flow	Essential	436	63.84%	683
	Routinely done	344	50.37%	
	Occasionally done	162	23.72%	
	Rarely done	34	4.98%	
	Never done	17	2.49%	
Tests for lung maturity	Essential	432	63.34%	682
	Routinely done	267	39.15%	
	Occasionally done	212	31.09%	
	Rarely done	63	9.24%	
	Never done	17	2.49%	
Triple or quad screen	Essential	424	61.81%	686
	Routinely done	400	58.31%	
	Occasionally done	126	18.37%	
	Rarely done	22	3.21%	
	Never done	20	2.92%	
Ultrasound	Essential	547	80.44%	680
	Routinely done	438	64.41%	
	Occasionally done	16	2.35%	
	Rarely done	2	0.29%	
	Never done	11	1.62%	
Are there other items that are routine to your practice that are not included in this list?	Yes	39	6.27%	622
	No	583	93.73%	
<b>Physical and Gestational Age Assessment</b> - Listed below are a variety of physical assessments. Please indicate the essentiality and frequency in which neonates require these types of assessments.				
Autonomic control/responses	Essential	538	79.94%	673
	Routinely done	390	57.95%	
	Occasionally done	69	10.25%	
	Rarely done	20	2.97%	
	Never Asked or Performed	8	1.19%	
Neurosensory capabilities	Essential	530	79.34%	668
	Routinely done	367	54.94%	
	Occasionally done	91	13.62%	
	Rarely done	18	2.69%	
	Never Asked or Performed	6	0.90%	
Behavioral assessment	Essential	533	79.91%	

<b>Exhibit 2 Neonatal Nurse Practitioner (NNP)</b>		# per answer option	% per answer option	Total per item
<b>Questions</b>	<b>Answer Options</b>			
	Routinely done	353	52.92%	667
	Occasionally done	87	13.04%	
	Rarely done	24	3.60%	
	Never Asked or Performed	13	1.95%	
Genetic work up	Essential	417	62.15%	671
	Routinely done	207	30.85%	
	Occasionally done	308	45.90%	
	Rarely done	50	7.45%	
	Never Asked or Performed	4	0.60%	
Gestational age assessment	Essential	603	89.87%	671
	Routinely done	380	56.63%	
	Occasionally done	48	7.15%	
	Rarely done	11	1.64%	
	Never Asked or Performed	4	0.60%	
Head-to-toe exam	Essential	655	97.47%	672
	Routinely done	405	60.27%	
	Occasionally done	0	0%	
	Rarely done	0	0%	
	Never Asked or Performed	1	0.15%	
Neurological exam	Essential	610	90.50%	674
	Routinely done	398	59.05%	
	Occasionally done	39	5.79%	
	Rarely done	5	0.74%	
	Never Asked or Performed	1	0.15%	
Neonatal states	Essential	570	85.46%	667
	Routinely done	385	57.72%	
	Occasionally done	50	7.50%	
	Rarely done	11	1.65%	
	Never Asked or Performed	7	1.05%	
Ophthalmologic exam	Essential	488	72.94%	669
	Routinely done	364	54.41%	
	Occasionally done	76	11.36%	
	Rarely done	22	3.29%	
	Never Asked or Performed	50	7.47%	
Are there other items that are routine to your practice that are not included in this list?	Yes	20	3.28%	610
	No	590	96.72%	
<b>Family Integration - Listed below are a variety of aspects of promoting family integration in the time of crisis, discharge planning and continuity of care. Please indicate the essentiality and frequency in which you encounter these situations in your practice.</b>				
<b>Family Integration and Communication</b>				
Identification of grief discordance between parents	Essential	450	68.39%	658
	Routinely	248	37.69%	
	Occasionally	203	30.85%	
	Rarely	57	8.66%	
	Never	9	1.37%	
Prevention of cultural	Essential	491	74.51%	

<b>Exhibit 2 Neonatal Nurse Practitioner (NNP)</b>		# per answer option	% per answer option	Total per item
<b>Questions</b>	<b>Answer Options</b>			
misunderstandings	Routinely	303	45.98%	659
	Occasionally	169	25.64%	
	Rarely	25	3.79%	
	Never	4	0.61%	
Prevention of miscommunication with staff and parents	Essential	541	81.85%	661
	Routinely	354	53.56%	
	Occasionally	99	14.98%	
	Rarely	14	2.12%	
	Never	2	0.30%	
Siblings education	Essential	285	43.51%	655
	Routinely	164	25.04%	
	Occasionally	210	32.06%	
	Rarely	171	26.11%	
	Never	52	7.94%	
<b>Grieving Process</b>				
Application of the knowledge of stages of grief	Essential	494	74.51%	663
	Routinely	254	38.31%	
	Occasionally	185	27.90%	
	Rarely	52	7.84%	
	Never	4	0.60%	
Education of parents to deal with sibling grief response	Essential	354	54.13%	654
	Routinely	164	25.08%	
	Occasionally	214	32.72%	
	Rarely	132	20.18%	
	Never	48	7.34%	
Identification of factors that may impede the normal grief process	Essential	437	66.31%	659
	Routinely	241	36.57%	
	Occasionally	185	28.07%	
	Rarely	88	13.35%	
	Never	9	1.37%	
Recognition of gender differences in the grief process	Essential	434	65.86%	659
	Routinely	251	38.09%	
	Occasionally	186	28.22%	
	Rarely	77	11.68%	
	Never	9	1.37%	
<b>Discharge Planning and Follow up</b>				
Anticipatory guidance to parents	Essential	572	85.89%	666
	Routinely done	423	63.51%	
	Occasionally done	33	4.95%	
	Rarely done	4	0.60%	
	Never done	2	0.30%	
Education on developmental milestones	Essential	452	68.48%	660
	Routinely done	348	52.73%	
	Occasionally done	133	20.15%	
	Rarely done	36	5.45%	
	Never done	10	1.52%	

<b>Exhibit 2 Neonatal Nurse Practitioner (NNP)</b>		# per answer option	% per answer option	Total per item
<b>Questions</b>	<b>Answer Options</b>			
Education on follow up screening	Essential	532	79.76%	667
	Routinely done	437	65.52%	
	Occasionally done	46	6.90%	
	Rarely done	3	0.45%	
	Never done	4	0.60%	
Education on future health risks	Essential	482	72.48%	665
	Routinely done	388	58.35%	
	Occasionally done	104	15.64%	
	Rarely done	21	3.16%	
	Never done	4	0.60%	
Education on growth and nutrition	Essential	526	79.22%	664
	Routinely done	425	64.01%	
	Occasionally done	45	6.78%	
	Rarely done	14	2.11%	
	Never done	3	0.45%	
Education on hearing testing	Essential	518	77.89%	665
	Routinely done	419	63.01%	
	Occasionally done	49	7.37%	
	Rarely done	16	2.41%	
	Never done	4	0.60%	
Education on vision testing	Essential	472	71.95%	656
	Routinely done	382	58.23%	
	Occasionally done	88	13.41%	
	Rarely done	21	3.20%	
	Never done	17	2.59%	
Are there other items that are routine to your practice that are not included in this list?	Yes	33	5.45%	606
	No	573	94.55%	
<b>Laboratory Testing and Diagnostic Evaluation-</b> For the following tests and diagnostic studies indicate the frequency, essentiality and nature of what you are responsible for in regard to the specific assessments listed.				
Arterial blood gas	Essential	628	95.88%	655
	Routinely done	391	59.69%	
	Occasionally done	17	2.60%	
	Rarely done	4	0.61%	
	No longer used	2	0.31%	
	Perform	267	40.76%	
	Order	348	53.13%	
	Interpret Results	362	55.27%	
	Explain results	341	52.06%	
Bilirubin (total)	Essential	633	96.79%	
	Routinely done	407	62.23%	
	Occasionally done	4	0.61%	
	Rarely done	1	0.15%	
	No longer used	0	0%	
	Perform	85	13.00%	

<b>Exhibit 2 Neonatal Nurse Practitioner (NNP)</b>		<b># per answer option</b>	<b>% per answer option</b>	<b>Total per item</b>
<b>Questions</b>	<b>Answer Options</b>			
	Order	354	54.13%	654
	Interpret Results	361	55.20%	
	Explain results	340	51.99%	
Blood culture	Essential	625	95.71%	653
	Routinely done	406	62.17%	
	Occasionally done	9	1.38%	
	Rarely done	0	0%	
	No longer used	1	0.15%	
	Perform	184	28.18%	
	Order	353	54.06%	
	Interpret Results	356	54.52%	
	Explain results	333	51.00%	
Blood glucose	Essential	632	96.78%	653
	Routinely done	404	61.87%	
	Occasionally done	4	0.61%	
	Rarely done	0	0%	
	No longer used	0	0%	
	Perform	83	12.71%	
	Order	349	53.45%	
	Interpret Results	359	54.98%	
	Explain results	327	50.08%	
Blood type and Rh	Essential	619	95.08%	651
	Routinely done	398	61.14%	
	Occasionally done	15	2.30%	
	Rarely done	0	0%	
	No longer used	0	0%	
	Perform	66	10.14%	
	Order	350	53.76%	
	Interpret Results	353	54.22%	
	Explain results	312	47.93%	
BUN and creatinine	Essential	608	93.11%	653
	Routinely done	389	59.57%	
	Occasionally done	23	3.52%	
	Rarely done	8	1.23%	
	No longer used	1	0.15%	
	Perform	72	11.03%	
	Order	353	54.06%	
	Interpret Results	355	54.36%	
	Explain results	301	46.09%	
C-reactive protein	Essential	544	83.31%	
	Routinely done	330	50.54%	
	Occasionally done	77	11.79%	
	Rarely done	38	5.82%	
	No longer used	12	1.84%	
	Perform	68	10.41%	
	Order	333	51.00%	



<b>Exhibit 2 Neonatal Nurse Practitioner (NNP)</b>		<b># per answer option</b>	<b>% per answer option</b>	<b>Total per item</b>
<b>Questions</b>	<b>Answer Options</b>			
	Interpret Results	334	51.15%	653
	Explain results	294	45.02%	
Calcium and Phosphorous	Essential	592	90.66%	653
	Routinely done	396	60.64%	
	Occasionally done	22	3.37%	
	Rarely done	9	1.38%	
	No longer used	1	0.15%	
	Perform	68	10.41%	
	Order	349	53.45%	
	Interpret Results	350	53.60%	
	Explain results	290	44.41%	
Clotting studies	Essential	510	78.22%	652
	Routinely done	227	34.82%	
	Occasionally done	211	32.36%	
	Rarely done	60	9.20%	
	No longer used	4	0.61%	
	Perform	100	15.34%	
	Order	347	53.22%	
	Interpret Results	340	52.15%	
	Explain results	285	43.71%	
Complete blood count	Essential	625	95.57%	654
	Routinely done	398	60.86%	
	Occasionally done	7	1.07%	
	Rarely done	0	0%	
	No longer used	0	0%	
	Perform	87	13.30%	
	Order	355	54.28%	
	Interpret Results	359	54.89%	
	Explain results	331	50.61%	
Coombs testing	Essential	607	92.67%	655
	Routinely done	384	58.63%	
	Occasionally done	35	5.34%	
	Rarely done	6	0.92%	
	No longer used	0	0%	
	Perform	60	9.16%	
	Order	344	52.52%	
	Interpret Results	348	53.13%	
	Explain results	311	47.48%	
CT and MRI	Essential	419	64.76%	655
	Routinely done	237	36.63%	
	Occasionally done	223	34.47%	
	Rarely done	70	10.82%	
	No longer used	1	0.15%	
	Perform	17	2.63%	
	Order	336	51.93%	
	Interpret Results	149	23.03%	

<b>Exhibit 2 Neonatal Nurse Practitioner (NNP)</b>		# per answer option	% per answer option	Total per item
<b>Questions</b>	<b>Answer Options</b>			
	Explain results	247	38.18%	647
Drug levels (troughs)	Essential	563	86.09%	654
	Routinely done	363	55.50%	
	Occasionally done	71	10.86%	
	Rarely done	14	2.14%	
	No longer used	1	0.15%	
	Perform	58	8.87%	
	Order	348	53.21%	
	Interpret Results	328	50.15%	
	Explain results	282	43.12%	
ECHO	Essential	519	79.48%	653
	Routinely done	379	58.04%	
	Occasionally done	83	12.71%	
	Rarely done	8	1.23%	
	No longer used	3	0.46%	
	Perform	16	2.45%	
	Order	344	52.68%	
	Interpret Results	142	21.75%	
	Explain results	268	41.04%	
EEG and VEEG	Essential	405	62.50%	648
	Routinely done	227	35.03%	
	Occasionally done	215	33.18%	
	Rarely done	91	14.04%	
	No longer used	8	1.23%	
	Perform	18	2.78%	
	Order	325	50.15%	
	Interpret Results	103	15.90%	
	Explain results	215	33.18%	
EKG	Essential	425	65.59%	648
	Routinely done	240	37.04%	
	Occasionally done	218	33.64%	
	Rarely done	72	11.11%	
	No longer used	3	0.46%	
	Perform	21	3.24%	
	Order	337	52.01%	
	Interpret Results	138	21.30%	
	Explain results	225	34.72%	
Electrolyte panel	Essential	622	95.25%	653
	Routinely done	376	57.58%	
	Occasionally done	12	1.84%	
	Rarely done	3	0.46%	
	No longer used	1	0.15%	
	Perform	70	10.72%	
	Order	349	53.45%	
	Interpret Results	344	52.68%	
	Explain results	309	47.32%	

<b>Exhibit 2 Neonatal Nurse Practitioner (NNP)</b>		<b># per answer option</b>	<b>% per answer option</b>	<b>Total per item</b>
<b>Questions</b>	<b>Answer Options</b>			
Fecal occult blood testing	Essential	428	65.64%	652
	Routinely done	145	22.24%	
	Occasionally done	187	28.68%	
	Rarely done	142	21.78%	
	No longer used	43	6.60%	
	Perform	35	5.37%	
	Order	294	45.09%	
	Interpret Results	266	40.80%	
	Explain results	251	38.50%	
Genetic screening	Essential	429	65.70%	653
	Routinely done	210	32.16%	
	Occasionally done	253	38.74%	
	Rarely done	64	9.80%	
	No longer used	3	0.46%	
	Perform	46	7.04%	
	Order	339	51.91%	
	Interpret Results	138	21.13%	
	Explain results	219	33.54%	
Hct and Hgb	Essential	622	94.96%	655
	Routinely done	381	58.17%	
	Occasionally done	11	1.68%	
	Rarely done	2	0.31%	
	No longer used	0	0%	
	Perform	73	11.15%	
	Order	349	53.28%	
	Interpret Results	346	52.82%	
	Explain results	312	47.63%	
Hepatitis screening	Essential	494	76.35%	647
	Routinely done	220	34.00%	
	Occasionally done	143	22.10%	
	Rarely done	102	15.77%	
	No longer used	10	1.55%	
	Perform	43	6.65%	
	Order	306	47.30%	
	Interpret Results	244	37.71%	
	Explain results	249	38.49%	
HIV screening	Essential	467	71.96%	649
	Routinely done	185	28.51%	
	Occasionally done	150	23.11%	
	Rarely done	145	22.34%	
	No longer used	10	1.54%	
	Perform	41	6.32%	
	Order	302	46.53%	
	Interpret Results	223	34.36%	
	Explain results	240	36.98%	
Liver function studies	Essential	545	83.46%	

<b>Exhibit 2 Neonatal Nurse Practitioner (NNP)</b>		<b># per answer option</b>	<b>% per answer option</b>	<b>Total per item</b>
<b>Questions</b>	<b>Answer Options</b>			
	Routinely done	336	51.45%	653
	Occasionally done	92	14.09%	
	Rarely done	20	3.06%	
	No longer used	2	0.31%	
	Perform	61	9.34%	
	Order	343	52.53%	
	Interpret Results	325	49.77%	
	Explain results	289	44.26%	
Magnesium	Essential	555	85.12%	652
	Routinely done	339	51.99%	
	Occasionally done	68	10.43%	
	Rarely done	30	4.60%	
	No longer used	1	0.15%	
	Perform	58	8.90%	
	Order	336	51.53%	
	Interpret Results	315	48.31%	
	Explain results	277	42.48%	
Procalcitonin	Essential	230	37.16%	619
	Routinely done	81	13.09%	
	Occasionally done	134	21.65%	
	Rarely done	240	38.77%	
	No longer used	106	17.12%	
	Perform	23	3.72%	
	Order	169	27.30%	
	Interpret Results	114	18.42%	
	Explain results	112	18.09%	
Sickle cell screen	Essential	352	56.14%	627
	Routinely done	182	29.03%	
	Occasionally done	119	18.98%	
	Rarely done	181	28.87%	
	No longer used	29	4.63%	
	Perform	33	5.26%	
	Order	247	39.39%	
	Interpret Results	154	24.56%	
	Explain results	181	28.87%	
Spinal fluid analysis	Essential	536	82.08%	653
	Routinely done	273	41.81%	
	Occasionally done	163	24.96%	
	Rarely done	30	4.59%	
	No longer used	1	0.15%	
	Perform	175	26.80%	
	Order	345	52.83%	
	Interpret Results	337	51.61%	
	Explain results	313	47.93%	
Thyroid studies	Essential	496	76.07%	
	Routinely done	274	42.02%	

<b>Exhibit 2 Neonatal Nurse Practitioner (NNP)</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	161	24.69%	652
	Rarely done	43	6.60%	
	No longer used	3	0.46%	
	Perform	56	8.59%	
	Order	340	52.15%	
	Interpret Results	294	45.09%	
	Explain results	276	42.33%	
Ultrasound	Essential	535	81.80%	654
	Routinely done	374	57.19%	
	Occasionally done	56	8.56%	
	Rarely done	15	2.29%	
	No longer used	1	0.15%	
	Perform	20	3.06%	
	Order	340	51.99%	
	Interpret Results	155	23.70%	
	Explain results	256	39.14%	
Urinalysis	Essential	505	77.57%	651
	Routinely done	259	39.78%	
	Occasionally done	145	22.27%	
	Rarely done	53	8.14%	
	No longer used	10	1.54%	
	Perform	51	7.83%	
	Order	333	51.15%	
	Interpret Results	304	46.70%	
	Explain results	281	43.16%	
Urine culture	Essential	531	81.32%	653
	Routinely done	281	43.03%	
	Occasionally done	124	18.99%	
	Rarely done	45	6.89%	
	No longer used	5	0.77%	
	Perform	100	15.31%	
	Order	341	52.22%	
	Interpret Results	317	48.55%	
	Explain results	297	45.48%	
Venous blood gas	Essential	562	86.59%	649
	Routinely done	301	46.38%	
	Occasionally done	86	13.25%	
	Rarely done	21	3.24%	
	No longer used	11	1.69%	
	Perform	114	17.57%	
	Order	330	50.85%	
	Interpret Results	328	50.54%	
	Explain results	294	45.30%	
Vitamin D levels	Essential	339	53.81%	
	Routinely done	123	19.52%	
	Occasionally done	171	27.14%	

<b>Exhibit 2 Neonatal Nurse Practitioner (NNP)</b>		# per answer option	% per answer option	Total per item
<b>Questions</b>	<b>Answer Options</b>			
	Rarely done	162	25.71%	630
	No longer used	64	10.16%	
	Perform	38	6.03%	
	Order	248	39.37%	
	Interpret Results	193	30.63%	
	Explain results	189	30%	
White blood cell with differential	Essential	612	93.72%	653
	Routinely done	370	56.66%	
	Occasionally done	10	1.53%	
	Rarely done	5	0.77%	
	No longer used	5	0.77%	
	Perform	72	11.03%	
	Order	342	52.37%	
	Interpret Results	341	52.22%	
	Explain results	309	47.32%	
X-rays	Essential	623	95.11%	655
	Routinely done	372	56.79%	
	Occasionally done	10	1.53%	
	Rarely done	3	0.46%	
	No longer used	1	0.15%	
	Perform	39	5.95%	
	Order	345	52.67%	
	Interpret Results	333	50.84%	
	Explain results	318	48.55%	
Other	Essential	43	67.19%	64
	Routinely done	19	29.69%	
	Occasionally done	3	4.69%	
	Rarely done	4	6.25%	
	No longer used	4	6.25%	
	Perform	6	9.38%	
	Order	24	37.50%	
	Interpret Results	23	35.94%	
	Explain results	22	34.38%	
Are there other laboratory test or procedures that are routine to your practice that are not included in this list?	Yes	67	11.32%	592
	No	525	88.68%	
<b>General Management</b>				
<b>Thermoregulation</b> - Listed below are a variety of issues related to thermoregulation. Please indicate the essentiality and frequency in which you encounter or need requisite to manage your patients.				
Application of knowledge that puts neonates at risk for hypothermia	Essential	665	96.66%	688
	Routinely seen/done	404	58.72%	
	Occasionally seen/done	8	1.16%	
	Rarely seen/done	4	0.58%	
	Never seen/done	1	0.15%	
Application of the knowledge of the	Essential	657	95.49%	

<b>Exhibit 2 Neonatal Nurse Practitioner (NNP)</b>				
<b>Questions</b>	<b>Answer Options</b>	<b># per answer option</b>	<b>% per answer option</b>	<b>Total per item</b>
neutral thermal environment	Routinely seen/done	405	58.87%	688
	Occasionally seen/done	8	1.16%	
	Rarely seen/done	2	0.29%	
	Never seen/done	0	0%	
Application of the knowledge of thermoregulation physiology	Essential	656	95.21%	689
	Routinely seen/done	404	58.64%	
	Occasionally seen/done	13	1.89%	
	Rarely seen/done	3	0.44%	
	Never seen/done	0	0%	
Heat loss by conduction	Essential	635	92.43%	687
	Routinely seen/done	361	52.55%	
	Occasionally seen/done	46	6.70%	
	Rarely seen/done	15	2.18%	
	Never seen/done	1	0.15%	
Heat loss by convection	Essential	638	92.73%	688
	Routinely seen/done	359	52.18%	
	Occasionally seen/done	43	6.25%	
	Rarely seen/done	16	2.33%	
	Never seen/done	1	0.15%	
Heat loss by evaporation	Essential	634	92.55%	685
	Routinely seen/done	371	54.16%	
	Occasionally seen/done	38	5.55%	
	Rarely seen/done	11	1.61%	
	Never seen/done	0	0%	
Heat loss by radiation	Essential	635	92.43%	687
	Routinely seen/done	358	52.11%	
	Occasionally seen/done	49	7.13%	
	Rarely seen/done	14	2.04%	
	Never seen/done	0	0%	
Hyperthermia	Essential	630	91.44%	689
	Routinely seen/done	282	40.93%	
	Occasionally seen/done	109	15.82%	
	Rarely seen/done	38	5.52%	
	Never seen/done	4	0.58%	
Hypothermia	Essential	645	94.16%	685
	Routinely seen/done	332	48.47%	
	Occasionally seen/done	74	10.80%	
	Rarely seen/done	7	1.02%	
	Never seen/done	0	0%	
Induced hypothermia for HIE	Essential	579	84.65%	684
	Routinely seen/done	237	34.65%	
	Occasionally seen/done	163	23.83%	
	Rarely seen/done	59	8.63%	
	Never seen/done	26	3.80%	
Use of temperature assessment techniques	Essential	607	89.40%	
	Routinely seen/done	388	57.14%	

<b>Exhibit 2 Neonatal Nurse Practitioner (NNP)</b>		# per answer option	% per answer option	Total per item
<b>Questions</b>	<b>Answer Options</b>			
	Occasionally seen/done	28	4.12%	679
	Rarely seen/done	9	1.33%	
	Never seen/done	6	0.88%	
Are there other items that are routine to your practice that are not included in this list?	Yes	36	5.68%	634
	No	598	94.32%	
<b>Fluids and Electrolytes-</b> Listed below are a variety of issues related to fluid and electrolyte management. Please indicate the essentiality and frequency in which you encounter or need the requisite knowledge to manage your patients.				
Acid base balance	Essential	643	96.69%	665
	Routinely seen/done	398	59.85%	
	Occasionally seen/done	9	1.35%	
	Rarely seen/done	1	0.15%	
	Never seen/done	1	0.15%	
Factors contributing to insensible water loss	Essential	631	95.32%	662
	Routinely seen/done	395	59.67%	
	Occasionally seen/done	14	2.11%	
	Rarely seen/done	4	0.60%	
	Never seen/done	0	0%	
Hypercalcemia	Essential	565	84.83%	666
	Routinely seen/done	235	35.29%	
	Occasionally seen/done	184	27.63%	
	Rarely seen/done	46	6.91%	
	Never seen/done	4	0.60%	
Hyperkalemia	Essential	595	89.34%	666
	Routinely seen/done	255	38.29%	
	Occasionally seen/done	152	22.82%	
	Rarely seen/done	39	5.86%	
	Never seen/done	4	0.60%	
Hypernatremia	Essential	606	90.99%	666
	Routinely seen/done	337	50.60%	
	Occasionally seen/done	97	14.56%	
	Rarely seen/done	8	1.20%	
	Never seen/done	2	0.30%	
Hyperphosphatemia	Essential	529	79.79%	663
	Routinely seen/done	198	29.86%	
	Occasionally seen/done	192	28.96%	
	Rarely seen/done	87	13.12%	
	Never seen/done	6	0.90%	
Hypocalcemia	Essential	591	88.47%	668
	Routinely seen/done	310	46.41%	
	Occasionally seen/done	120	17.96%	
	Rarely seen/done	20	2.99%	
	Never seen/done	2	0.30%	
Hypokalemia	Essential	592	88.89%	
	Routinely seen/done	281	42.19%	
	Occasionally seen/done	138	20.72%	



<b>Exhibit 2 Neonatal Nurse Practitioner (NNP)</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/done	28	4.20%	666
	Never seen/done	2	0.30%	
Hyponatremia	Essential	603	90.27%	668
	Routinely seen/done	340	50.90%	
	Occasionally seen/done	90	13.47%	
	Rarely seen/done	9	1.35%	
	Never seen/done	2	0.30%	
Hypophosphatemia	Essential	537	81.00%	663
	Routinely seen/done	231	34.84%	
	Occasionally seen/done	165	24.89%	
	Rarely seen/done	76	11.46%	
	Never seen/done	6	0.90%	
Knowledge of electrolyte requirements	Essential	644	96.41%	668
	Routinely seen/done	403	60.33%	
	Occasionally seen/done	3	0.45%	
	Rarely seen/done	2	0.30%	
	Never seen/done	0	0%	
Knowledge of fluid requirements	Essential	650	97.31%	668
	Routinely seen/done	399	59.73%	
	Occasionally seen/done	3	0.45%	
	Rarely seen/done	0	0%	
	Never seen/done	0	0%	
Knowledge of preventing factors for fluid and electrolyte imbalance	Essential	647	96.86%	668
	Routinely seen/done	400	59.88%	
	Occasionally seen/done	2	0.30%	
	Rarely seen/done	0	0%	
	Never seen/done	0	0%	
Knowledge of water balance physiology	Essential	629	94.59%	665
	Routinely seen/done	395	59.40%	
	Occasionally seen/done	12	1.80%	
	Rarely seen/done	1	0.15%	
	Never seen/done	0	0%	
Are there other items that are routine to your practice that are not included in this list?	Yes	34	5.53%	615
	No	581	94.47%	
<b>Nutrition-</b> Listed below are a variety of issues related to nutritional management. Please indicate the essentiality and frequency in which you encounter or need the requisite knowledge to manage your patients.				
Breastfeeding and its benefits	Essential	631	96.19%	656
	Routinely seen/done	402	61.28%	
	Occasionally seen/done	2	0.30%	
	Rarely seen/done	0	0%	
	Never seen/done	1	0.15%	
Enteral nutrition	Essential	634	96.94%	
	Routinely seen/done	387	59.17%	
	Occasionally seen/done	7	1.07%	
	Rarely seen/done	3	0.46%	

<b>Exhibit 2 Neonatal Nurse Practitioner (NNP)</b>		# per answer option	% per answer option	Total per item
<b>Questions</b>	<b>Answer Options</b>			
	Never seen/done	0	0%	654
Gavage feeding	Essential	626	95.87%	653
	Routinely seen/done	396	60.64%	
	Occasionally seen/done	6	0.92%	
	Rarely seen/done	0	0%	
	Never seen/done	2	0.31%	
Knowledge of digestion and absorption processes	Essential	598	91.44%	654
	Routinely seen/done	405	61.93%	
	Occasionally seen/done	18	2.75%	
	Rarely seen/done	2	0.31%	
	Never seen/done	0	0%	
Knowledge of formula composition and indications for use	Essential	560	85.50%	655
	Routinely seen/done	414	63.21%	
	Occasionally seen/done	37	5.65%	
	Rarely seen/done	1	0.15%	
	Never seen/done	0	0%	
Knowledge of human milk composition	Essential	556	85.02%	654
	Routinely seen/done	408	62.39%	
	Occasionally seen/done	34	5.20%	
	Rarely seen/done	4	0.61%	
	Never seen/done	1	0.15%	
Knowledge of lactation physiology	Essential	481	73.89%	651
	Routinely seen/done	386	59.29%	
	Occasionally seen/done	79	12.14%	
	Rarely seen/done	16	2.46%	
	Never seen/done	4	0.61%	
Knowledge of milk storage	Essential	471	72.46%	650
	Routinely seen/done	397	61.08%	
	Occasionally seen/done	62	9.54%	
	Rarely seen/done	16	2.46%	
	Never seen/done	10	1.54%	
Knowledge of nutritional requirements	Essential	615	94.04%	654
	Routinely seen/done	404	61.77%	
	Occasionally seen/done	7	1.07%	
	Rarely seen/done	0	0%	
	Never seen/done	0	0%	
Knowledge of nutritional supplements	Essential	586	89.60%	654
	Routinely seen/done	401	61.31%	
	Occasionally seen/done	18	2.75%	
	Rarely seen/done	4	0.61%	
	Never seen/done	2	0.31%	
Parenteral nutrition	Essential	623	95.70%	651
	Routinely seen/done	391	60.06%	
	Occasionally seen/done	8	1.23%	
	Rarely seen/done	3	0.46%	
	Never seen/done	2	0.31%	

<b>Exhibit 2 Neonatal Nurse Practitioner (NNP)</b>		<b># per answer option</b>	<b>% per answer option</b>	<b>Total per item</b>
<b>Questions</b>	<b>Answer Options</b>			
Special nutritional needs of the late preterm infant	Essential	619	94.65%	654
	Routinely seen/done	400	61.16%	
	Occasionally seen/done	8	1.22%	
	Rarely seen/done	2	0.31%	
	Never seen/done	0	0%	
Special nutritional needs of the preterm infant	Essential	617	94.63%	652
	Routinely seen/done	395	60.58%	
	Occasionally seen/done	5	0.77%	
	Rarely seen/done	3	0.46%	
	Never seen/done	0	0%	
Are there other items that are routine to your practice that are not included in this list?	Yes	36	6.05%	595
	No	559	93.95%	
<b>Resuscitation</b> - Listed below are a variety of issues related to infants requiring resuscitation and stabilization. Please indicate the essentiality and frequency in which you encounter or need the requisite knowledge to manage a neonate requiring resuscitation.				
Cord blood analysis	Essential	539	83.18%	648
	Routinely seen/done	387	59.72%	
	Occasionally seen/done	62	9.57%	
	Rarely seen/done	10	1.54%	
	Never seen/done	7	1.08%	
Delivery room assessment	Essential	622	96.14%	647
	Routinely seen/done	379	58.58%	
	Occasionally seen/done	12	1.85%	
	Rarely seen/done	7	1.08%	
	Never seen/done	6	0.93%	
Infants requiring chest compressions	Essential	599	92.30%	649
	Routinely seen/done	151	23.27%	
	Occasionally seen/done	227	34.98%	
	Rarely seen/done	58	8.94%	
	Never seen/done	2	0.31%	
Infants requiring endotracheal intubation	Essential	617	95.07%	649
	Routinely seen/done	342	52.70%	
	Occasionally seen/done	67	10.32%	
	Rarely seen/done	5	0.77%	
	Never seen/done	1	0.15%	
Infants requiring fluid resuscitation	Essential	605	93.22%	649
	Routinely seen/done	268	41.29%	
	Occasionally seen/done	137	21.11%	
	Rarely seen/done	17	2.62%	
	Never seen/done	1	0.15%	
Infants requiring laryngeal mask airway insertion	Essential	446	69.15%	645
	Routinely seen/done	70	10.85%	
	Occasionally seen/done	93	14.42%	
	Rarely seen/done	222	34.42%	
	Never seen/done	139	21.55%	

<b>Exhibit 2 Neonatal Nurse Practitioner (NNP)</b>		# per answer option	% per answer option	Total per item
<b>Questions</b>	<b>Answer Options</b>			
Infants requiring positive pressure ventilation	Essential	621	95.83%	648
	Routinely seen/done	375	57.87%	
	Occasionally seen/done	30	4.63%	
	Rarely seen/done	2	0.31%	
	Never seen/done	0	0%	
Infants requiring resuscitation medications	Essential	585	90.28%	648
	Routinely seen/done	146	22.53%	
	Occasionally seen/done	208	32.10%	
	Rarely seen/done	88	13.58%	
	Never seen/done	4	0.62%	
Infants requiring suctioning	Essential	616	95.06%	648
	Routinely seen/done	397	61.27%	
	Occasionally seen/done	20	3.09%	
	Rarely seen/done	0	0%	
	Never seen/done	0	0%	
Infants requiring tactile stimulation	Essential	627	96.46%	650
	Routinely seen/done	401	61.69%	
	Occasionally seen/done	5	0.77%	
	Rarely seen/done	0	0%	
	Never seen/done	2	0.31%	
Knowledge of physiologic basis for resuscitation intervention	Essential	627	97.36%	644
	Routinely seen/done	384	59.63%	
	Occasionally seen/done	5	0.78%	
	Rarely seen/done	1	0.16%	
	Never seen/done	0	0%	
Knowledge of physiology and anatomy of transition to extrauterine life	Essential	635	97.69%	650
	Routinely seen/done	383	58.92%	
	Occasionally seen/done	8	1.23%	
	Rarely seen/done	0	0%	
	Never seen/done	1	0.15%	
Neonatal transport	Essential	457	72.20%	633
	Routinely seen/done	254	40.13%	
	Occasionally seen/done	111	17.54%	
	Rarely seen/done	64	10.11%	
	Never seen/done	56	8.85%	
Are there other items that are routine to your practice that are not included in this list?	Yes	22	3.69%	597
	No	575	96.31%	
<b>The Disease Process</b>				
<b>Cardiac and Pulmonary Care-</b> Indicate below the frequency, essentiality and nature of your practice regarding cardiac and pulmonary care for the critically, chronically and convalescing neonate.				
Abnormal cardiac rhythms	Essential	531	65.96%	
	Routinely seen	186	23.11%	
	Occasionally seen	419	52.05%	
	Rarely seen	81	10.06%	

<b>Exhibit 2 Neonatal Nurse Practitioner (NNP)</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%	805
	Diagnose	346	42.98%	
	Manage	342	42.48%	
	Collaborate	460	57.14%	
	Educate	291	36.15%	
	Refer	347	43.11%	
Abnormal heart sounds	Essential	645	80.12%	805
	Routinely seen	412	51.18%	
	Occasionally seen	162	20.12%	
	Rarely seen	12	1.49%	
	Never seen	0	0%	
	Diagnose	380	47.20%	
	Manage	374	46.46%	
	Collaborate	442	54.91%	
	Educate	319	39.63%	
	Refer	297	36.89%	
Aortic stenosis	Essential	424	53.13%	798
	Routinely seen	68	8.52%	
	Occasionally seen	310	38.85%	
	Rarely seen	294	36.84%	
	Never seen	23	2.88%	
	Diagnose	189	23.68%	
	Manage	224	28.07%	
	Collaborate	341	42.73%	
	Educate	228	28.57%	
	Refer	412	51.63%	
Apnea of prematurity	Essential	748	93.03%	804
	Routinely seen	452	56.22%	
	Occasionally seen	24	2.99%	
	Rarely seen	6	0.75%	
	Never seen	3	0.37%	
	Diagnose	478	59.45%	
	Manage	495	61.57%	
	Collaborate	265	32.96%	
	Educate	405	50.37%	
	Refer	59	7.34%	
Atrial septal defect	Essential	533	66.54%	801
	Routinely seen	297	37.08%	
	Occasionally seen	296	36.95%	
	Rarely seen	64	7.99%	
	Never seen	3	0.37%	
	Diagnose	226	28.21%	
	Manage	360	44.94%	
	Collaborate	398	49.69%	
	Educate	308	38.45%	
	Refer	313	39.08%	

<b>Exhibit 2 Neonatal Nurse Practitioner (NNP)</b>		<b># per answer option</b>	<b>% per answer option</b>	<b>Total per item</b>
<b>Questions</b>	<b>Answer Options</b>			
Atrioventricular septal defect	Essential	501	62.55%	801
	Routinely seen	162	20.22%	
	Occasionally seen	327	40.82%	
	Rarely seen	175	21.85%	
	Never seen	7	0.87%	
	Diagnose	218	27.22%	
	Manage	322	40.20%	
	Collaborate	384	47.94%	
	Educate	277	34.58%	
	Refer	364	45.44%	
Bronchopulmonary dysplasia/chronic lung disease	Essential	688	85.68%	803
	Routinely seen	365	45.45%	
	Occasionally seen	137	17.06%	
	Rarely seen	46	5.73%	
	Never seen	13	1.62%	
	Diagnose	434	54.05%	
	Manage	477	59.40%	
	Collaborate	369	45.95%	
	Educate	400	49.81%	
	Refer	148	18.43%	
Coarctation of the aorta (interrupted arch)	Essential	517	64.38%	803
	Routinely seen	105	13.08%	
	Occasionally seen	328	40.85%	
	Rarely seen	248	30.88%	
	Never seen	8	1.00%	
	Diagnose	246	30.64%	
	Manage	285	35.49%	
	Collaborate	378	47.07%	
	Educate	276	34.37%	
	Refer	441	54.92%	
Congenital cardiac defects	Essential	567	70.61%	803
	Routinely seen	232	28.89%	
	Occasionally seen	310	38.61%	
	Rarely seen	109	13.57%	
	Never seen	2	0.25%	
	Diagnose	260	32.38%	
	Manage	317	39.48%	
	Collaborate	400	49.81%	
	Educate	300	37.36%	
	Refer	433	53.92%	
Congestive heart failure	Essential	519	64.71%	
	Routinely seen	120	14.96%	
	Occasionally seen	301	37.53%	
	Rarely seen	242	30.17%	
	Never seen	16	2.00%	
	Diagnose	338	42.14%	

<b>Exhibit 2 Neonatal Nurse Practitioner (NNP)</b>		<b># per answer option</b>	<b>% per answer option</b>	<b>Total per item</b>
<b>Questions</b>	<b>Answer Options</b>			
	Manage	402	50.12%	802
	Collaborate	399	49.75%	
	Educate	313	39.03%	
	Refer	268	33.42%	
Diaphragmatic hernia	Essential	549	68.45%	802
	Routinely seen	102	12.72%	
	Occasionally seen	242	30.17%	
	Rarely seen	305	38.03%	
	Never seen	23	2.87%	
	Diagnose	374	46.63%	
	Manage	349	43.52%	
	Collaborate	361	45.01%	
	Educate	304	37.91%	
	Refer	396	49.38%	
Ebstein anomaly	Essential	415	51.94%	799
	Routinely seen	45	5.63%	
	Occasionally seen	202	25.28%	
	Rarely seen	410	51.31%	
	Never seen	58	7.26%	
	Diagnose	201	25.16%	
	Manage	246	30.79%	
	Collaborate	324	40.55%	
	Educate	227	28.41%	
	Refer	388	48.56%	
Ectopic cordis	Essential	301	38.20%	788
	Routinely seen	21	2.66%	
	Occasionally seen	77	9.77%	
	Rarely seen	302	38.32%	
	Never seen	331	42.01%	
	Diagnose	141	17.89%	
	Manage	125	15.86%	
	Collaborate	203	25.76%	
	Educate	145	18.40%	
	Refer	315	39.97%	
Endocardial cushion defect	Essential	424	53.07%	799
	Routinely seen	54	6.76%	
	Occasionally seen	228	28.54%	
	Rarely seen	365	45.68%	
	Never seen	64	8.01%	
	Diagnose	181	22.65%	
	Manage	240	30.04%	
	Collaborate	320	40.05%	
	Educate	225	28.16%	
	Refer	375	46.93%	
Hypertension	Essential	544	67.83%	
	Routinely seen	179	22.32%	

<b>Exhibit 2 Neonatal Nurse Practitioner (NNP)</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	316	39.40%	802
	Rarely seen	151	18.83%	
	Never seen	11	1.37%	
	Diagnose	414	51.62%	
	Manage	440	54.86%	
	Collaborate	401	50%	
	Educate	339	42.27%	
	Refer	211	26.31%	
Hypoplastic left heart syndrome	Essential	490	61.02%	803
	Routinely seen	72	8.97%	
	Occasionally seen	233	29.02%	
	Rarely seen	352	43.84%	
	Never seen	39	4.86%	
	Diagnose	219	27.27%	
	Manage	256	31.88%	
	Collaborate	325	40.47%	
	Educate	253	31.51%	
	Refer	429	53.42%	
Hypoplastic lungs	Essential	533	66.21%	805
	Routinely seen	91	11.30%	
	Occasionally seen	270	33.54%	
	Rarely seen	285	35.40%	
	Never seen	30	3.73%	
	Diagnose	348	43.23%	
	Manage	386	47.95%	
	Collaborate	357	44.35%	
	Educate	307	38.14%	
	Refer	242	30.06%	
Hypotension	Essential	659	82.17%	802
	Routinely seen	373	46.51%	
	Occasionally seen	162	20.20%	
	Rarely seen	35	4.36%	
	Never seen	3	0.37%	
	Diagnose	445	55.49%	
	Manage	477	59.48%	
	Collaborate	331	41.27%	
	Educate	342	42.64%	
	Refer	81	10.10%	
Laryngeal tracheomalacia/stenosis	Essential	511	63.80%	
	Routinely seen	143	17.85%	
	Occasionally seen	297	37.08%	
	Rarely seen	214	26.72%	
	Never seen	24	3.00%	
	Diagnose	275	34.33%	
	Manage	382	47.69%	
	Collaborate	397	49.56%	



<b>Exhibit 2 Neonatal Nurse Practitioner (NNP)</b>		<b># per answer option</b>	<b>% per answer option</b>	<b>Total per item</b>
<b>Questions</b>	<b>Answer Options</b>			
	Educate	304	37.95%	801
	Refer	340	42.45%	
Meconium aspiration	Essential	655	81.47%	804
	Routinely seen	306	38.06%	
	Occasionally seen	239	29.73%	
	Rarely seen	39	4.85%	
	Never seen	2	0.25%	
	Diagnose	458	56.97%	
	Manage	489	60.82%	
	Collaborate	345	42.91%	
	Educate	364	45.27%	
	Refer	92	11.44%	
Oxygen delivery	Essential	753	93.66%	804
	Routinely seen	455	56.59%	
	Occasionally seen	20	2.49%	
	Rarely seen	3	0.37%	
	Never seen	1	0.12%	
	Diagnose	421	52.36%	
	Manage	480	59.70%	
	Collaborate	291	36.19%	
	Educate	360	44.78%	
	Refer	55	6.84%	
Patent ductus arteriosus	Essential	732	91.04%	804
	Routinely seen	447	55.60%	
	Occasionally seen	54	6.72%	
	Rarely seen	8	1.00%	
	Never seen	2	0.25%	
	Diagnose	399	49.63%	
	Manage	480	59.70%	
	Collaborate	425	52.86%	
	Educate	385	47.89%	
	Refer	231	28.73%	
Persistent pulmonary hypertension	Essential	682	84.83%	804
	Routinely seen	339	42.16%	
	Occasionally seen	189	23.51%	
	Rarely seen	35	4.35%	
	Never seen	4	0.50%	
	Diagnose	417	51.87%	
	Manage	478	59.45%	
	Collaborate	415	51.62%	
	Educate	377	46.89%	
	Refer	192	23.88%	
Pneumonia	Essential	648	80.70%	804
	Routinely seen	341	42.47%	
	Occasionally seen	190	23.66%	
	Rarely seen	49	6.10%	

<b>Exhibit 2 Neonatal Nurse Practitioner (NNP)</b>				
<b>Questions</b>	<b>Answer Options</b>	<b># per answer option</b>	<b>% per answer option</b>	<b>Total per item</b>
	Never seen	2	0.25%	803
	Diagnose	441	54.92%	
	Manage	482	60.02%	
	Collaborate	330	41.10%	
	Educate	353	43.96%	
	Refer	66	8.22%	
Pulmonary air leaks	Essential	632	78.51%	805
	Routinely seen	230	28.57%	
	Occasionally seen	297	36.89%	
	Rarely seen	77	9.57%	
	Never seen	2	0.25%	
	Diagnose	449	55.78%	
	Manage	476	59.13%	
	Collaborate	328	40.75%	
	Educate	359	44.60%	
	Refer	64	7.95%	
Pulmonary hemorrhage	Essential	569	70.77%	804
	Routinely seen	119	14.80%	
	Occasionally seen	282	35.07%	
	Rarely seen	237	29.48%	
	Never seen	15	1.87%	
	Diagnose	442	54.98%	
	Manage	454	56.47%	
	Collaborate	320	39.80%	
	Educate	334	41.54%	
	Refer	84	10.45%	
Respiratory distress	Essential	757	94.15%	804
	Routinely seen	466	57.96%	
	Occasionally seen	19	2.36%	
	Rarely seen	2	0.25%	
	Never seen	1	0.12%	
	Diagnose	467	58.08%	
	Manage	495	61.57%	
	Collaborate	319	39.68%	
	Educate	378	47.01%	
	Refer	55	6.84%	
Respiratory distress syndrome	Essential	752	93.18%	807
	Routinely seen	458	56.75%	
	Occasionally seen	31	3.84%	
	Rarely seen	4	0.50%	
	Never seen	3	0.37%	
	Diagnose	467	57.87%	
	Manage	495	61.34%	
	Collaborate	318	39.41%	
	Educate	379	46.96%	
	Refer	54	6.69%	

<b>Exhibit 2 Neonatal Nurse Practitioner (NNP)</b>		<b># per answer option</b>	<b>% per answer option</b>	<b>Total per item</b>
<b>Questions</b>	<b>Answer Options</b>			
Shock	Essential	633	78.63%	805
	Routinely seen	209	25.96%	
	Occasionally seen	265	32.92%	
	Rarely seen	123	15.28%	
	Never seen	7	0.87%	
	Diagnose	448	55.65%	
	Manage	474	58.88%	
	Collaborate	339	42.11%	
	Educate	354	43.98%	
	Refer	57	7.08%	
Systemic inflammatory response system (SIRS)	Essential	414	53.08%	780
	Routinely seen	87	11.15%	
	Occasionally seen	204	26.15%	
	Rarely seen	238	30.51%	
	Never seen	145	18.59%	
	Diagnose	247	31.67%	
	Manage	304	38.97%	
	Collaborate	264	33.85%	
	Educate	236	30.26%	
	Refer	148	18.97%	
Tetralogy of Fallot	Essential	494	61.67%	801
	Routinely seen	80	9.99%	
	Occasionally seen	272	33.96%	
	Rarely seen	314	39.20%	
	Never seen	20	2.50%	
	Diagnose	230	28.71%	
	Manage	295	36.83%	
	Collaborate	340	42.45%	
	Educate	266	33.21%	
	Refer	413	51.56%	
Total anomalous venous return	Essential	477	59.70%	799
	Routinely seen	42	5.26%	
	Occasionally seen	221	27.66%	
	Rarely seen	382	47.81%	
	Never seen	43	5.38%	
	Diagnose	218	27.28%	
	Manage	277	34.67%	
	Collaborate	320	40.05%	
	Educate	248	31.04%	
	Refer	423	52.94%	
Transient tachypnea of the newborn	Essential	737	91.78%	
	Routinely seen	461	57.41%	
	Occasionally seen	42	5.23%	
	Rarely seen	5	0.62%	
	Never seen	2	0.25%	
	Diagnose	458	57.04%	

<b>Exhibit 2 Neonatal Nurse Practitioner (NNP)</b>		<b># per answer option</b>	<b>% per answer option</b>	<b>Total per item</b>
<b>Questions</b>	<b>Answer Options</b>			
	Manage	485	60.40%	803
	Collaborate	315	39.23%	
	Educate	381	47.45%	
	Refer	67	8.34%	
Transposition of the great vessels	Essential	500	62.19%	804
	Routinely seen	77	9.58%	
	Occasionally seen	259	32.21%	
	Rarely seen	325	40.42%	
	Never seen	28	3.48%	
	Diagnose	224	27.86%	
	Manage	277	34.45%	
	Collaborate	323	40.17%	
	Educate	252	31.34%	
	Refer	427	53.11%	
Tricuspid atresia	Essential	463	57.95%	799
	Routinely seen	64	8.01%	
	Occasionally seen	246	30.79%	
	Rarely seen	340	42.55%	
	Never seen	38	4.76%	
	Diagnose	212	26.53%	
	Manage	268	33.54%	
	Collaborate	323	40.43%	
	Educate	241	30.16%	
	Refer	406	50.81%	
Truncus arteriosus	Essential	464	58.07%	799
	Routinely seen	47	5.88%	
	Occasionally seen	233	29.16%	
	Rarely seen	358	44.81%	
	Never seen	51	6.38%	
	Diagnose	210	26.28%	
	Manage	258	32.29%	
	Collaborate	308	38.55%	
	Educate	238	29.79%	
	Refer	407	50.94%	
Ventilator associated infections	Essential	567	70.88%	800
	Routinely seen	161	20.13%	
	Occasionally seen	263	32.88%	
	Rarely seen	163	20.38%	
	Never seen	41	5.13%	
	Diagnose	398	49.75%	
	Manage	447	55.88%	
	Collaborate	331	41.38%	
	Educate	339	42.38%	
	Refer	73	9.13%	
Ventilator management	Essential	744	92.88%	
	Routinely seen	417	52.06%	

<b>Exhibit 2 Neonatal Nurse Practitioner (NNP)</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	37	4.62%	801
	Rarely seen	20	2.50%	
	Never seen	7	0.87%	
	Diagnose	388	48.44%	
	Manage	467	58.30%	
	Collaborate	334	41.70%	
	Educate	357	44.57%	
	Refer	64	7.99%	
Ventricular septal defect	Essential	569	71.13%	800
	Routinely seen	307	38.38%	
	Occasionally seen	262	32.75%	
	Rarely seen	57	7.13%	
	Never seen	3	0.38%	
	Diagnose	285	35.63%	
	Manage	419	52.38%	
	Collaborate	402	50.25%	
	Educate	335	41.88%	
	Refer	292	36.50%	
Are there other items that are routine to your practice that are not included in this list?	Yes	66	8.91%	741
	No	675	91.09%	
<b>Gastrointestinal and Renal/Genitourinary Care - Indicate below the frequency, essentiality and nature of your practice regarding GI/renal and genitourinary care for the critically, chronically and convalescing neonate.</b>				
Abdominal mass	Essential	421	58.72%	717
	Routinely seen	48	6.69%	
	Occasionally seen	259	36.12%	
	Rarely seen	305	42.54%	
	Never seen	19	2.65%	
	Diagnose	318	44.35%	
	Manage	309	43.10%	
	Collaborate	359	50.07%	
	Educate	247	34.45%	
	Refer	327	45.61%	
Abdominal wall defects	Essential	518	72.65%	713
	Routinely seen	161	22.58%	
	Occasionally seen	253	35.48%	
	Rarely seen	157	22.02%	
	Never seen	13	1.82%	
	Diagnose	368	51.61%	
	Manage	340	47.69%	
	Collaborate	370	51.89%	
	Educate	297	41.65%	
	Refer	340	47.69%	
Acute renal failure/insufficiency	Essential	509	71.39%	
	Routinely seen	155	21.74%	
	Occasionally seen	259	36.33%	

<b>Exhibit 2 Neonatal Nurse Practitioner (NNP)</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	154	21.60%	713
	Never seen	13	1.82%	
	Diagnose	369	51.75%	
	Manage	386	54.14%	
	Collaborate	359	50.35%	
	Educate	286	40.11%	
	Refer	189	26.51%	
Adrenal insufficiency	Essential	459	64.47%	712
	Routinely seen	131	18.40%	
	Occasionally seen	239	33.57%	
	Rarely seen	207	29.07%	
	Never seen	25	3.51%	
	Diagnose	337	47.33%	
	Manage	371	52.11%	
	Collaborate	348	48.88%	
	Educate	267	37.50%	
	Refer	195	27.39%	
Ambiguous genitalia	Essential	442	62.43%	708
	Routinely seen	29	4.10%	
	Occasionally seen	212	29.94%	
	Rarely seen	371	52.40%	
	Never seen	16	2.26%	
	Diagnose	363	51.27%	
	Manage	299	42.23%	
	Collaborate	358	50.56%	
	Educate	282	39.83%	
	Refer	355	50.14%	
Anomalies/obstruction of the upper and/or lower GI tract	Essential	499	70.08%	712
	Routinely seen	165	23.17%	
	Occasionally seen	269	37.78%	
	Rarely seen	144	20.22%	
	Never seen	5	0.70%	
	Diagnose	344	48.31%	
	Manage	338	47.47%	
	Collaborate	357	50.14%	
	Educate	276	38.76%	
	Refer	339	47.61%	
Cystic fibrosis	Essential	348	49.08%	
	Routinely seen	26	3.67%	
	Occasionally seen	141	19.89%	
	Rarely seen	389	54.87%	
	Never seen	97	13.68%	
	Diagnose	217	30.61%	
	Manage	236	33.29%	
	Collaborate	300	42.31%	
	Educate	225	31.73%	

<b>Exhibit 2 Neonatal Nurse Practitioner (NNP)</b>		<b># per answer option</b>	<b>% per answer option</b>	<b>Total per item</b>
<b>Questions</b>	<b>Answer Options</b>			
	Refer	313	44.15%	709
Diarrhea	Essential	437	61.72%	708
	Routinely seen	147	20.76%	
	Occasionally seen	302	42.66%	
	Rarely seen	152	21.47%	
	Never seen	13	1.84%	
	Diagnose	379	53.53%	
	Manage	413	58.33%	
	Collaborate	252	35.59%	
	Educate	279	39.41%	
	Refer	60	8.47%	
Digestive and absorptive disorders	Essential	446	62.73%	711
	Routinely seen	200	28.13%	
	Occasionally seen	251	35.30%	
	Rarely seen	137	19.27%	
	Never seen	14	1.97%	
	Diagnose	317	44.59%	
	Manage	368	51.76%	
	Collaborate	337	47.40%	
	Educate	269	37.83%	
	Refer	217	30.52%	
Disorders of suck, swallow, motility	Essential	514	72.19%	712
	Routinely seen	329	46.21%	
	Occasionally seen	183	25.70%	
	Rarely seen	43	6.04%	
	Never seen	3	0.42%	
	Diagnose	357	50.14%	
	Manage	395	55.48%	
	Collaborate	361	50.70%	
	Educate	312	43.82%	
	Refer	222	31.18%	
Duplications	Essential	315	45.19%	697
	Routinely seen	33	4.73%	
	Occasionally seen	161	23.10%	
	Rarely seen	342	49.07%	
	Never seen	105	15.06%	
	Diagnose	184	26.40%	
	Manage	231	33.14%	
	Collaborate	262	37.59%	
	Educate	178	25.54%	
	Refer	294	42.18%	
Exstrophy of the bladder	Essential	365	51.34%	
	Routinely seen	17	2.39%	
	Occasionally seen	98	13.78%	
	Rarely seen	413	58.09%	
	Never seen	127	17.86%	

<b>Exhibit 2 Neonatal Nurse Practitioner (NNP)</b>		<b># per answer option</b>	<b>% per answer option</b>	<b>Total per item</b>
<b>Questions</b>	<b>Answer Options</b>			
	Diagnose	277	38.96%	711
	Manage	235	33.05%	
	Collaborate	275	38.68%	
	Educate	207	29.11%	
	Refer	346	48.66%	
High output renal failure	Essential	431	61.05%	706
	Routinely seen	85	12.04%	
	Occasionally seen	228	32.29%	
	Rarely seen	243	34.42%	
	Never seen	55	7.79%	
	Diagnose	329	46.60%	
	Manage	352	49.86%	
	Collaborate	308	43.63%	
	Educate	236	33.43%	
Refer	168	23.80%		
Hydronephrosis/ureter	Essential	454	63.85%	711
	Routinely seen	171	24.05%	
	Occasionally seen	259	36.43%	
	Rarely seen	151	21.24%	
	Never seen	13	1.83%	
	Diagnose	286	40.23%	
	Manage	353	49.65%	
	Collaborate	342	48.10%	
	Educate	257	36.15%	
Refer	280	39.38%		
Hypercalcemia	Essential	487	68.79%	708
	Routinely seen	177	25%	
	Occasionally seen	235	33.19%	
	Rarely seen	152	21.47%	
	Never seen	15	2.12%	
	Diagnose	400	56.50%	
	Manage	408	57.63%	
	Collaborate	264	37.29%	
	Educate	254	35.88%	
Refer	53	7.49%		
Hyperglycemia	Essential	565	79.58%	710
	Routinely seen	311	43.80%	
	Occasionally seen	167	23.52%	
	Rarely seen	42	5.92%	
	Never seen	10	1.41%	
	Diagnose	415	58.45%	
	Manage	425	59.86%	
	Collaborate	258	36.34%	
	Educate	276	38.87%	
Refer	45	6.34%		
Hypermagnesemia	Essential	507	71.71%	



<b>Exhibit 2 Neonatal Nurse Practitioner (NNP)</b>		<b># per answer option</b>	<b>% per answer option</b>	<b>Total per item</b>
<b>Questions</b>	<b>Answer Options</b>			
	Routinely seen	241	34.09%	707
	Occasionally seen	204	28.85%	
	Rarely seen	108	15.28%	
	Never seen	11	1.56%	
	Diagnose	405	57.28%	
	Manage	414	58.56%	
	Collaborate	245	34.65%	
	Educate	259	36.63%	
	Refer	32	4.53%	
Hypocalcemia	Essential	535	75.67%	707
	Routinely seen	290	41.02%	
	Occasionally seen	191	27.02%	
	Rarely seen	54	7.64%	
	Never seen	3	0.42%	
	Diagnose	412	58.27%	
	Manage	424	59.97%	
	Collaborate	246	34.79%	
	Educate	257	36.35%	
	Refer	35	4.95%	
Hypoglycemia	Essential	626	88.17%	710
	Routinely seen	403	56.76%	
	Occasionally seen	62	8.73%	
	Rarely seen	5	0.70%	
	Never seen	0	0%	
	Diagnose	420	59.15%	
	Manage	434	61.13%	
	Collaborate	258	36.34%	
	Educate	290	40.85%	
	Refer	45	6.34%	
Hypomagnesemia	Essential	467	66.34%	704
	Routinely seen	175	24.86%	
	Occasionally seen	210	29.83%	
	Rarely seen	172	24.43%	
	Never seen	22	3.13%	
	Diagnose	393	55.82%	
	Manage	398	56.53%	
	Collaborate	231	32.81%	
	Educate	242	34.38%	
	Refer	34	4.83%	
Hypospadias/epispadias	Essential	477	67.28%	
	Routinely seen	175	24.68%	
	Occasionally seen	303	42.74%	
	Rarely seen	111	15.66%	
	Never seen	1	0.14%	
	Diagnose	386	54.44%	
	Manage	338	47.67%	

<b>Exhibit 2 Neonatal Nurse Practitioner (NNP)</b>		<b># per answer option</b>	<b>% per answer option</b>	<b>Total per item</b>
<b>Questions</b>	<b>Answer Options</b>			
	Collaborate	305	43.02%	709
	Educate	273	38.50%	
	Refer	321	45.28%	
Inborn error of metabolism	Essential	416	58.76%	708
	Routinely seen	70	9.89%	
	Occasionally seen	203	28.67%	
	Rarely seen	321	45.34%	
	Never seen	32	4.52%	
	Diagnose	265	37.43%	
	Manage	300	42.37%	
	Collaborate	339	47.88%	
	Educate	258	36.44%	
	Refer	342	48.31%	
Infant of a diabetic mother	Essential	627	88.56%	708
	Routinely seen	419	59.18%	
	Occasionally seen	49	6.92%	
	Rarely seen	1	0.14%	
	Never seen	0	0%	
	Diagnose	400	56.50%	
	Manage	432	61.02%	
	Collaborate	268	37.85%	
	Educate	325	45.90%	
	Refer	63	8.90%	
Inguinal hernia	Essential	536	75.71%	708
	Routinely seen	291	41.10%	
	Occasionally seen	193	27.26%	
	Rarely seen	54	7.63%	
	Never seen	1	0.14%	
	Diagnose	396	55.93%	
	Manage	357	50.42%	
	Collaborate	306	43.22%	
	Educate	295	41.67%	
	Refer	307	43.36%	
Inperforate anus	Essential	480	67.80%	708
	Routinely seen	104	14.69%	
	Occasionally seen	240	33.90%	
	Rarely seen	239	33.76%	
	Never seen	17	2.40%	
	Diagnose	377	53.25%	
	Manage	285	40.25%	
	Collaborate	292	41.24%	
	Educate	252	35.59%	
	Refer	353	49.86%	
Malabsorption/maldigestion	Essential	436	61.76%	708
	Routinely seen	176	24.93%	
	Occasionally seen	226	32.01%	

<b>Exhibit 2 Neonatal Nurse Practitioner (NNP)</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	178	25.21%	706
	Never seen	21	2.97%	
	Diagnose	313	44.33%	
	Manage	337	47.73%	
	Collaborate	324	45.89%	
	Educate	248	35.13%	
	Refer	231	32.72%	
Meconium aspiration	Essential	571	80.65%	708
	Routinely seen	251	35.45%	
	Occasionally seen	230	32.49%	
	Rarely seen	40	5.65%	
	Never seen	2	0.28%	
	Diagnose	411	58.05%	
	Manage	429	60.59%	
	Collaborate	294	41.53%	
	Educate	305	43.08%	
	Refer	64	9.04%	
Necrotizing enterocolitis	Essential	573	80.93%	708
	Routinely seen	224	31.64%	
	Occasionally seen	211	29.80%	
	Rarely seen	79	11.16%	
	Never seen	9	1.27%	
	Diagnose	407	57.49%	
	Manage	409	57.77%	
	Collaborate	366	51.69%	
	Educate	311	43.93%	
	Refer	232	32.77%	
Obstructions	Essential	522	73.94%	706
	Routinely seen	164	23.23%	
	Occasionally seen	237	33.57%	
	Rarely seen	146	20.68%	
	Never seen	12	1.70%	
	Diagnose	349	49.43%	
	Manage	331	46.88%	
	Collaborate	322	45.61%	
	Educate	263	37.25%	
	Refer	329	46.60%	
Osteopenia/rickets	Essential	446	62.91%	706
	Routinely seen	148	20.87%	
	Occasionally seen	204	28.77%	
	Rarely seen	207	29.20%	
	Never seen	50	7.05%	
	Diagnose	343	48.38%	
	Manage	374	52.75%	
	Collaborate	303	42.74%	
	Educate	282	39.77%	

<b>Exhibit 2 Neonatal Nurse Practitioner (NNP)</b>				
<b>Questions</b>	<b>Answer Options</b>	<b># per answer option</b>	<b>% per answer option</b>	<b>Total per item</b>
	Refer	128	18.05%	709
Perforations	Essential	505	71.33%	708
	Routinely seen	148	20.90%	
	Occasionally seen	226	31.92%	
	Rarely seen	189	26.69%	
	Never seen	18	2.54%	
	Diagnose	372	52.54%	
	Manage	339	47.88%	
	Collaborate	330	46.61%	
	Educate	259	36.58%	
	Refer	337	47.60%	
Polycystic/dysplastic kidneys	Essential	412	58.03%	710
	Routinely seen	63	8.87%	
	Occasionally seen	228	32.11%	
	Rarely seen	301	42.39%	
	Never seen	37	5.21%	
	Diagnose	281	39.58%	
	Manage	300	42.25%	
	Collaborate	326	45.92%	
	Educate	234	32.96%	
	Refer	326	45.92%	
Renal vein/artery thrombosis	Essential	395	55.79%	708
	Routinely seen	50	7.06%	
	Occasionally seen	170	24.01%	
	Rarely seen	357	50.42%	
	Never seen	58	8.19%	
	Diagnose	275	38.84%	
	Manage	308	43.50%	
	Collaborate	321	45.34%	
	Educate	230	32.49%	
	Refer	246	34.75%	
Short gut syndrome	Essential	428	60.45%	708
	Routinely seen	103	14.55%	
	Occasionally seen	178	25.14%	
	Rarely seen	255	36.02%	
	Never seen	77	10.88%	
	Diagnose	279	39.41%	
	Manage	309	43.64%	
	Collaborate	309	43.64%	
	Educate	243	34.32%	
	Refer	289	40.82%	
Testicular torsion	Essential	420	59.32%	708
	Routinely seen	30	4.24%	
	Occasionally seen	135	19.07%	
	Rarely seen	378	53.39%	
	Never seen	90	12.71%	

<b>Exhibit 2 Neonatal Nurse Practitioner (NNP)</b>		# per answer option	% per answer option	Total per item
<b>Questions</b>	<b>Answer Options</b>			
	Diagnose	308	43.50%	708
	Manage	277	39.12%	
	Collaborate	293	41.38%	
	Educate	228	32.20%	
	Refer	345	48.73%	
Thyroid disease	Essential	423	60%	705
	Routinely seen	79	11.21%	
	Occasionally seen	243	34.47%	
	Rarely seen	258	36.60%	
	Never seen	38	5.39%	
	Diagnose	317	44.96%	
	Manage	352	49.93%	
	Collaborate	341	48.37%	
	Educate	252	35.74%	
	Refer	253	35.89%	
Tracheoesophageal fistula	Essential	465	65.68%	708
	Routinely seen	102	14.41%	
	Occasionally seen	230	32.49%	
	Rarely seen	255	36.02%	
	Never seen	20	2.82%	
	Diagnose	345	48.73%	
	Manage	324	45.76%	
	Collaborate	324	45.76%	
	Educate	253	35.73%	
	Refer	351	49.58%	
Urinary outflow tract obstruction	Essential	414	58.47%	708
	Routinely seen	61	8.62%	
	Occasionally seen	204	28.81%	
	Rarely seen	308	43.50%	
	Never seen	54	7.63%	
	Diagnose	276	38.98%	
	Manage	288	40.68%	
	Collaborate	306	43.22%	
	Educate	224	31.64%	
	Refer	338	47.74%	
Are there other items that are routine to your practice that are not included in this list?	Yes	29	4.57%	635
	No	606	95.43%	
<b>Hematopoietic and Infectious Disease - Indicate below the frequency, essentiality and nature of your practice regarding hematopoietic and infectious disease for the critically, chronically and convalescing neonate.</b>				
Anemia	Essential	614	89.90%	
	Routinely seen	405	59.30%	
	Occasionally seen	48	7.03%	
	Rarely seen	9	1.32%	
	Never seen	0	0%	
	Diagnose	432	63.25%	

<b>Exhibit 2 Neonatal Nurse Practitioner (NNP)</b>		<b># per answer option</b>	<b>% per answer option</b>	<b>Total per item</b>
<b>Questions</b>	<b>Answer Options</b>			
	Manage	439	64.28%	683
	Collaborate	223	32.65%	
	Educate	337	49.34%	
	Refer	33	4.83%	
Breast milk jaundice	Essential	555	81.62%	680
	Routinely seen	269	39.56%	
	Occasionally seen	197	28.97%	
	Rarely seen	45	6.62%	
	Never seen	1	0.15%	
	Diagnose	415	61.03%	
	Manage	426	62.65%	
	Collaborate	204	30%	
	Educate	353	51.91%	
	Refer	26	3.82%	
Candidiasis	Essential	500	73.42%	681
	Routinely seen	161	23.64%	
	Occasionally seen	269	39.50%	
	Rarely seen	117	17.18%	
	Never seen	8	1.17%	
	Diagnose	408	59.91%	
	Manage	412	60.50%	
	Collaborate	212	31.13%	
	Educate	298	43.76%	
	Refer	48	7.05%	
Chlamydia/gonorrhea	Essential	378	55.59%	680
	Routinely seen	30	4.41%	
	Occasionally seen	154	22.65%	
	Rarely seen	344	50.59%	
	Never seen	96	14.12%	
	Diagnose	294	43.24%	
	Manage	341	50.15%	
	Collaborate	242	35.59%	
	Educate	253	37.21%	
	Refer	85	12.50%	
CMV	Essential	434	64.01%	678
	Routinely seen	38	5.60%	
	Occasionally seen	228	33.63%	
	Rarely seen	323	47.64%	
	Never seen	23	3.39%	
	Diagnose	350	51.62%	
	Manage	385	56.78%	
	Collaborate	303	44.69%	
	Educate	289	42.63%	
	Refer	153	22.57%	
Disseminated intravascular coagulation	Essential	464	68.14%	
	Routinely seen	70	10.28%	

<b>Exhibit 2 Neonatal Nurse Practitioner (NNP)</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	254	37.30%	681
	Rarely seen	253	37.15%	
	Never seen	20	2.94%	
	Diagnose	385	56.53%	
	Manage	392	57.56%	
	Collaborate	307	45.08%	
	Educate	271	39.79%	
	Refer	103	15.12%	
E.Coli infection	Essential	466	68.53%	680
	Routinely seen	89	13.09%	
	Occasionally seen	335	49.26%	
	Rarely seen	160	23.53%	
	Never seen	6	0.88%	
	Diagnose	401	58.97%	
	Manage	418	61.47%	
	Collaborate	287	42.21%	
	Educate	278	40.88%	
	Refer	70	10.29%	
Enterococcus infection	Essential	442	65.19%	678
	Routinely seen	97	14.31%	
	Occasionally seen	300	44.25%	
	Rarely seen	180	26.55%	
	Never seen	13	1.92%	
	Diagnose	384	56.64%	
	Manage	400	59.00%	
	Collaborate	272	40.12%	
	Educate	265	39.09%	
	Refer	66	9.73%	
Group B strep infection	Essential	519	76.32%	680
	Routinely seen	135	19.85%	
	Occasionally seen	314	46.18%	
	Rarely seen	100	14.71%	
	Never seen	3	0.44%	
	Diagnose	400	58.82%	
	Manage	424	62.35%	
	Collaborate	268	39.41%	
	Educate	291	42.79%	
	Refer	62	9.12%	
Hematological disorders	Essential	443	65.34%	
	Routinely seen	110	16.22%	
	Occasionally seen	275	40.56%	
	Rarely seen	193	28.47%	
	Never seen	11	1.62%	
	Diagnose	335	49.41%	
	Manage	363	53.54%	
	Collaborate	343	50.59%	

<b>Exhibit 2 Neonatal Nurse Practitioner (NNP)</b>		<b># per answer option</b>	<b>% per answer option</b>	<b>Total per item</b>
<b>Questions</b>	<b>Answer Options</b>			
	Educate	258	38.05%	678
	Refer	234	34.51%	
Hemorrhagic disease of the newborn	Essential	434	63.92%	679
	Routinely seen	40	5.89%	
	Occasionally seen	171	25.18%	
	Rarely seen	307	45.21%	
	Never seen	86	12.67%	
	Diagnose	322	47.42%	
	Manage	338	49.78%	
	Collaborate	302	44.48%	
	Educate	246	36.23%	
	Refer	176	25.92%	
Hepatitis B	Essential	442	65%	680
	Routinely seen	34	5%	
	Occasionally seen	157	23.09%	
	Rarely seen	320	47.06%	
	Never seen	88	12.94%	
	Diagnose	311	45.74%	
	Manage	349	51.32%	
	Collaborate	282	41.47%	
	Educate	262	38.53%	
	Refer	140	20.59%	
Herpes	Essential	458	67.25%	681
	Routinely seen	63	9.25%	
	Occasionally seen	230	33.77%	
	Rarely seen	278	40.82%	
	Never seen	24	3.52%	
	Diagnose	367	53.89%	
	Manage	391	57.42%	
	Collaborate	314	46.11%	
	Educate	286	42.00%	
	Refer	125	18.36%	
HIV/AIDS	Essential	425	62.50%	680
	Routinely seen	44	6.47%	
	Occasionally seen	147	21.62%	
	Rarely seen	339	49.85%	
	Never seen	85	12.50%	
	Diagnose	294	43.24%	
	Manage	343	50.44%	
	Collaborate	329	48.38%	
	Educate	268	39.41%	
	Refer	222	32.65%	
Hospital acquired infections	Essential	502	73.72%	
	Routinely seen	157	23.05%	
	Occasionally seen	266	39.06%	
	Rarely seen	120	17.62%	



<b>Exhibit 2 Neonatal Nurse Practitioner (NNP)</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	10	1.47%	681
	Diagnose	392	57.56%	
	Manage	413	60.65%	
	Collaborate	285	41.85%	
	Educate	294	43.17%	
	Refer	75	11.01%	
Hyperbilirubinemia	Essential	632	92.80%	681
	Routinely seen	420	61.67%	
	Occasionally seen	21	3.08%	
	Rarely seen	0	0%	
	Never seen	0	0%	
	Diagnose	415	60.94%	
	Manage	431	63.29%	
	Collaborate	208	30.54%	
	Educate	329	48.31%	
	Refer	29	4.26%	
Infection control and universal precautions	Essential	639	93.97%	680
	Routinely seen	380	55.88%	
	Occasionally seen	16	2.35%	
	Rarely seen	8	1.18%	
	Never seen	0	0%	
	Diagnose	250	36.76%	
	Manage	305	44.85%	
	Collaborate	191	28.09%	
	Educate	320	47.06%	
	Refer	33	4.85%	
Kernicterus	Essential	439	64.75%	678
	Routinely seen	21	3.10%	
	Occasionally seen	66	9.73%	
	Rarely seen	240	35.40%	
	Never seen	282	41.59%	
	Diagnose	262	38.64%	
	Manage	274	40.41%	
	Collaborate	218	32.15%	
	Educate	235	34.66%	
	Refer	150	22.12%	
Klebsiella infection	Essential	427	62.89%	679
	Routinely seen	61	8.98%	
	Occasionally seen	218	32.11%	
	Rarely seen	249	36.67%	
	Never seen	66	9.72%	
	Diagnose	348	51.25%	
	Manage	372	54.79%	
	Collaborate	249	36.67%	
	Educate	250	36.82%	
	Refer	73	10.75%	

<b>Exhibit 2 Neonatal Nurse Practitioner (NNP)</b>		<b># per answer option</b>	<b>% per answer option</b>	<b>Total per item</b>
<b>Questions</b>	<b>Answer Options</b>			
Liver disease	Essential	429	63.37%	677
	Routinely seen	90	13.29%	
	Occasionally seen	225	33.23%	
	Rarely seen	238	35.16%	
	Never seen	41	6.06%	
	Diagnose	335	49.48%	
	Manage	366	54.06%	
	Collaborate	324	47.86%	
	Educate	258	38.11%	
	Refer	219	32.35%	
Meningitis	Essential	476	70.10%	679
	Routinely seen	82	12.08%	
	Occasionally seen	244	35.94%	
	Rarely seen	232	34.17%	
	Never seen	26	3.83%	
	Diagnose	384	56.55%	
	Manage	400	58.91%	
	Collaborate	300	44.18%	
	Educate	286	42.12%	
	Refer	125	18.41%	
Methicillin resistant staphylococcus infections (MRSA)	Essential	487	71.62%	680
	Routinely seen	144	21.18%	
	Occasionally seen	231	33.97%	
	Rarely seen	178	26.18%	
	Never seen	21	3.09%	
	Diagnose	378	55.59%	
	Manage	406	59.71%	
	Collaborate	286	42.06%	
	Educate	299	43.97%	
	Refer	98	14.41%	
Neutropenia/neutrophilia	Essential	526	77.35%	680
	Routinely seen	272	40%	
	Occasionally seen	196	28.82%	
	Rarely seen	57	8.38%	
	Never seen	2	0.29%	
	Diagnose	396	58.24%	
	Manage	411	60.44%	
	Collaborate	263	38.68%	
	Educate	264	38.82%	
	Refer	67	9.85%	
Osteomyelitis	Essential	390	57.61%	
	Routinely seen	37	5.47%	
	Occasionally seen	126	18.61%	
	Rarely seen	347	51.26%	
	Never seen	102	15.07%	
	Diagnose	292	43.13%	

<b>Exhibit 2 Neonatal Nurse Practitioner (NNP)</b>		<b># per answer option</b>	<b>% per answer option</b>	<b>Total per item</b>
<b>Questions</b>	<b>Answer Options</b>			
	Manage	321	47.42%	677
	Collaborate	296	43.72%	
	Educate	228	33.68%	
	Refer	179	26.44%	
Polycythemia	Essential	486	71.68%	678
	Routinely seen	222	32.74%	
	Occasionally seen	252	37.17%	
	Rarely seen	82	12.09%	
	Never seen	5	0.74%	
	Diagnose	392	57.82%	
	Manage	411	60.62%	
	Collaborate	229	33.78%	
	Educate	271	39.97%	
	Refer	33	4.87%	
Rh Disease/ABO incompatibility	Essential	526	77.47%	679
	Routinely seen	264	38.88%	
	Occasionally seen	206	30.34%	
	Rarely seen	62	9.13%	
	Never seen	2	0.29%	
	Diagnose	405	59.65%	
	Manage	420	61.86%	
	Collaborate	247	36.38%	
	Educate	299	44.04%	
	Refer	44	6.48%	
Rubella	Essential	382	56.43%	677
	Routinely seen	23	3.40%	
	Occasionally seen	64	9.45%	
	Rarely seen	273	40.32%	
	Never seen	257	37.96%	
	Diagnose	248	36.63%	
	Manage	268	39.59%	
	Collaborate	229	33.83%	
	Educate	209	30.87%	
	Refer	153	22.60%	
Septic arthritis	Essential	313	46.30%	676
	Routinely seen	17	2.51%	
	Occasionally seen	68	10.06%	
	Rarely seen	265	39.20%	
	Never seen	278	41.12%	
	Diagnose	217	32.10%	
	Manage	234	34.62%	
	Collaborate	224	33.14%	
	Educate	180	26.63%	
	Refer	190	28.11%	
Septic shock	Essential	497	73.63%	
	Routinely seen	92	13.63%	

<b>Exhibit 2 Neonatal Nurse Practitioner (NNP)</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	229	33.93%	675
	Rarely seen	211	31.26%	
	Never seen	25	3.70%	
	Diagnose	376	55.70%	
	Manage	396	58.67%	
	Collaborate	269	39.85%	
	Educate	274	40.59%	
	Refer	82	12.15%	
Staphylococcal infections	Essential	487	71.62%	680
	Routinely seen	148	21.76%	
	Occasionally seen	277	40.74%	
	Rarely seen	114	16.76%	
	Never seen	16	2.35%	
	Diagnose	383	56.32%	
	Manage	405	59.56%	
	Collaborate	257	37.79%	
	Educate	275	40.44%	
	Refer	64	9.41%	
Syphilis	Essential	384	56.64%	678
	Routinely seen	29	4.28%	
	Occasionally seen	101	14.90%	
	Rarely seen	306	45.13%	
	Never seen	182	26.84%	
	Diagnose	287	42.33%	
	Manage	328	48.38%	
	Collaborate	258	38.05%	
	Educate	245	36.14%	
	Refer	155	22.86%	
Thrombocytopenia	Essential	552	81.18%	680
	Routinely seen	305	44.85%	
	Occasionally seen	165	24.26%	
	Rarely seen	32	4.71%	
	Never seen	5	0.74%	
	Diagnose	396	58.24%	
	Manage	421	61.91%	
	Collaborate	255	37.50%	
	Educate	280	41.18%	
	Refer	58	8.53%	
Thrombocytosis	Essential	420	62.31%	
	Routinely seen	135	20.03%	
	Occasionally seen	206	30.56%	
	Rarely seen	182	27.00%	
	Never seen	53	7.86%	
	Diagnose	333	49.41%	
	Manage	350	51.93%	
	Collaborate	226	33.53%	

Exhibit 2 Neonatal Nurse Practitioner (NNP) Questions		Answer Options	# per answer option	% per answer option	Total per item
	Educate		233	34.57%	674
	Refer		71	10.53%	
Toxoplasmosis	Essential		378	55.75%	678
	Routinely seen		23	3.39%	
	Occasionally seen		90	13.27%	
	Rarely seen		350	51.62%	
	Never seen		160	23.60%	
	Diagnose		280	41.30%	
	Manage		302	44.54%	
	Collaborate		254	37.46%	
	Educate		233	34.37%	
	Refer		154	22.71%	
Varicella	Essential		370	54.73%	676
	Routinely seen		18	2.66%	
	Occasionally seen		66	9.76%	
	Rarely seen		336	49.70%	
	Never seen		201	29.73%	
	Diagnose		276	40.83%	
	Manage		300	44.38%	
	Collaborate		244	36.09%	
	Educate		224	33.14%	
	Refer		139	20.56%	
Are there other items that are routine to your practice that are not included in this list?	Yes		28	4.61%	607
	No		579	95.39%	
<b>Musculoskeletal and Integumentary</b> - Indicate below the frequency, essentiality and nature of your practice regarding musculoskeletal and integumentary care for the critically, chronically and convalescing neonate.					
Abnormalities of the skeleton	Essential		407	61.85%	658
	Routinely seen		80	12.16%	
	Occasionally seen		277	42.10%	
	Rarely seen		208	31.61%	
	Never seen		8	1.22%	
	Diagnose		306	46.50%	
	Manage		293	44.53%	
	Collaborate		332	50.46%	
	Educate		238	36.17%	
	Refer		276	41.95%	
Achondroplasia	Essential		333	50.68%	
	Routinely seen		15	2.28%	
	Occasionally seen		137	20.85%	
	Rarely seen		390	59.36%	
	Never seen		55	8.37%	
	Diagnose		237	36.07%	
	Manage		265	40.33%	
	Collaborate		308	46.88%	
	Educate		213	32.42%	

<b>Exhibit 2 Neonatal Nurse Practitioner (NNP)</b>				
<b>Questions</b>	<b>Answer Options</b>	<b># per answer option</b>	<b>% per answer option</b>	<b>Total per item</b>
	Refer	286	43.53%	657
Acute skin conditions, e.g contact dermatitis	Essential	459	69.76%	658
	Routinely seen	225	34.19%	
	Occasionally seen	231	35.11%	
	Rarely seen	74	11.25%	
	Never seen	3	0.46%	
	Diagnose	367	55.78%	
	Manage	399	60.64%	
	Collaborate	249	37.84%	
	Educate	281	42.71%	
	Refer	81	12.31%	
Arthrogryposis	Essential	337	51.29%	657
	Routinely seen	28	4.26%	
	Occasionally seen	181	27.55%	
	Rarely seen	337	51.29%	
	Never seen	53	8.07%	
	Diagnose	252	38.36%	
	Manage	269	40.94%	
	Collaborate	299	45.51%	
	Educate	208	31.66%	
	Refer	241	36.68%	
Auricular tags	Essential	415	63.07%	658
	Routinely seen	166	25.23%	
	Occasionally seen	303	46.05%	
	Rarely seen	95	14.44%	
	Never seen	2	0.30%	
	Diagnose	370	56.23%	
	Manage	307	46.66%	
	Collaborate	218	33.13%	
	Educate	263	39.97%	
	Refer	119	18.09%	
Clubfoot	Essential	440	66.77%	659
	Routinely seen	108	16.39%	
	Occasionally seen	345	52.35%	
	Rarely seen	108	16.39%	
	Never seen	3	0.46%	
	Diagnose	370	56.15%	
	Manage	310	47.04%	
	Collaborate	328	49.77%	
	Educate	270	40.97%	
	Refer	293	44.46%	
Dislocation of the hip	Essential	436	65.96%	
	Routinely seen	59	8.93%	
	Occasionally seen	288	43.57%	
	Rarely seen	222	33.59%	
	Never seen	10	1.51%	

<b>Exhibit 2 Neonatal Nurse Practitioner (NNP)</b>		<b># per answer option</b>	<b>% per answer option</b>	<b>Total per item</b>
<b>Questions</b>	<b>Answer Options</b>			
	Diagnose	369	55.82%	661
	Manage	309	46.75%	
	Collaborate	313	47.35%	
	Educate	259	39.18%	
	Refer	291	44.02%	
Ecchymosis	Essential	428	65.34%	655
	Routinely seen	235	35.88%	
	Occasionally seen	200	30.53%	
	Rarely seen	100	15.27%	
	Never seen	16	2.44%	
	Diagnose	361	55.11%	
	Manage	347	52.98%	
	Collaborate	192	29.31%	
	Educate	249	38.02%	
	Refer	50	7.63%	
Epidermolysis bullosa	Essential	348	52.89%	658
	Routinely seen	15	2.28%	
	Occasionally seen	127	19.30%	
	Rarely seen	374	56.84%	
	Never seen	85	12.92%	
	Diagnose	266	40.43%	
	Manage	276	41.95%	
	Collaborate	291	44.22%	
	Educate	226	34.35%	
	Refer	245	37.23%	
Erythema toxicum	Essential	533	80.64%	661
	Routinely seen	362	54.77%	
	Occasionally seen	103	15.58%	
	Rarely seen	25	3.78%	
	Never seen	2	0.30%	
	Diagnose	393	59.46%	
	Manage	340	51.44%	
	Collaborate	156	23.60%	
	Educate	298	45.08%	
	Refer	32	4.84%	
Fractures	Essential	410	62.22%	659
	Routinely seen	65	9.86%	
	Occasionally seen	286	43.40%	
	Rarely seen	228	34.60%	
	Never seen	6	0.91%	
	Diagnose	357	54.17%	
	Manage	340	51.59%	
	Collaborate	315	47.80%	
	Educate	269	40.82%	
	Refer	239	36.27%	
Hemangiomas	Essential	467	70.65%	

<b>Exhibit 2 Neonatal Nurse Practitioner (NNP)</b>		<b># per answer option</b>	<b>% per answer option</b>	<b>Total per item</b>
<b>Questions</b>	<b>Answer Options</b>			
	Routinely seen	219	33.13%	661
	Occasionally seen	267	40.39%	
	Rarely seen	62	9.38%	
	Never seen	1	0.15%	
	Diagnose	377	57.03%	
	Manage	327	49.47%	
	Collaborate	259	39.18%	
	Educate	292	44.18%	
	Refer	140	21.18%	
Hyperpigmentation	Essential	395	60.40%	654
	Routinely seen	150	22.94%	
	Occasionally seen	210	32.11%	
	Rarely seen	172	26.30%	
	Never seen	21	3.21%	
	Diagnose	334	51.07%	
	Manage	280	42.81%	
	Collaborate	192	29.36%	
	Educate	248	37.92%	
	Refer	72	11.01%	
Hypopigmentation	Essential	363	55.34%	656
	Routinely seen	85	12.96%	
	Occasionally seen	200	30.49%	
	Rarely seen	234	35.67%	
	Never seen	49	7.47%	
	Diagnose	312	47.56%	
	Manage	260	39.63%	
	Collaborate	187	28.51%	
	Educate	231	35.21%	
	Refer	77	11.74%	
Metatarsus adductus	Essential	371	56.47%	657
	Routinely seen	74	11.26%	
	Occasionally seen	231	35.16%	
	Rarely seen	218	33.18%	
	Never seen	50	7.61%	
	Diagnose	299	45.51%	
	Manage	271	41.25%	
	Collaborate	247	37.60%	
	Educate	235	35.77%	
	Refer	198	30.14%	
Milia/miliara	Essential	505	76.75%	
	Routinely seen	398	60.49%	
	Occasionally seen	78	11.85%	
	Rarely seen	15	2.28%	
	Never seen	4	0.61%	
	Diagnose	379	57.60%	
	Manage	289	43.92%	



<b>Exhibit 2 Neonatal Nurse Practitioner (NNP)</b>				
<b>Questions</b>	<b>Answer Options</b>	<b># per answer option</b>	<b>% per answer option</b>	<b>Total per item</b>
	Collaborate	133	20.21%	658
	Educate	301	45.74%	
	Refer	19	2.89%	
Mongolian spots (hyperpigmented nevus)	Essential	535	81.31%	658
	Routinely seen	411	62.46%	
	Occasionally seen	62	9.42%	
	Rarely seen	9	1.37%	
	Never seen	1	0.15%	
	Diagnose	383	58.21%	
	Manage	275	41.79%	
	Collaborate	131	19.91%	
	Educate	307	46.66%	
	Refer	18	2.74%	
Musculoskeletal birth injuries	Essential	465	70.88%	656
	Routinely seen	106	16.16%	
	Occasionally seen	288	43.90%	
	Rarely seen	146	22.26%	
	Never seen	6	0.91%	
	Diagnose	365	55.64%	
	Manage	354	53.96%	
	Collaborate	314	47.87%	
	Educate	289	44.05%	
	Refer	224	34.15%	
Neonatal pustula melanosis	Essential	455	69.25%	657
	Routinely seen	205	31.20%	
	Occasionally seen	205	31.20%	
	Rarely seen	92	14.00%	
	Never seen	31	4.72%	
	Diagnose	362	55.10%	
	Manage	291	44.29%	
	Collaborate	159	24.20%	
	Educate	279	42.47%	
	Refer	48	7.31%	
Petechiae	Essential	500	75.64%	661
	Routinely seen	223	33.74%	
	Occasionally seen	247	37.37%	
	Rarely seen	44	6.66%	
	Never seen	2	0.30%	
	Diagnose	396	59.91%	
	Manage	373	56.43%	
	Collaborate	214	32.38%	
	Educate	283	42.81%	
	Refer	44	6.66%	
Port wine stains	Essential	438	66.67%	
	Routinely seen	76	11.57%	
	Occasionally seen	229	34.86%	

<b>Exhibit 2 Neonatal Nurse Practitioner (NNP)</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	234	35.62%	657
	Never seen	16	2.44%	
	Diagnose	358	54.49%	
	Manage	284	43.23%	
	Collaborate	229	34.86%	
	Educate	265	40.33%	
	Refer	148	22.53%	
Scoliosis	Essential	321	48.86%	657
	Routinely seen	26	3.96%	
	Occasionally seen	110	16.74%	
	Rarely seen	331	50.38%	
	Never seen	135	20.55%	
	Diagnose	245	37.29%	
	Manage	208	31.66%	
	Collaborate	239	36.38%	
	Educate	201	30.59%	
	Refer	255	38.81%	
Skin disorders	Essential	390	59.54%	655
	Routinely seen	122	18.63%	
	Occasionally seen	223	34.05%	
	Rarely seen	208	31.76%	
	Never seen	12	1.83%	
	Diagnose	309	47.18%	
	Manage	305	46.56%	
	Collaborate	279	42.60%	
	Educate	237	36.18%	
	Refer	211	32.21%	
Subcutaneous fat necrosis	Essential	361	55.11%	655
	Routinely seen	30	4.58%	
	Occasionally seen	160	24.43%	
	Rarely seen	330	50.38%	
	Never seen	75	11.45%	
	Diagnose	300	45.80%	
	Manage	297	45.34%	
	Collaborate	227	34.66%	
	Educate	223	34.05%	
	Refer	129	19.69%	
Tibial bowing	Essential	304	46.70%	655
	Routinely seen	25	3.84%	
	Occasionally seen	101	15.51%	
	Rarely seen	295	45.31%	
	Never seen	172	26.42%	
	Diagnose	232	35.64%	
	Manage	202	31.03%	
	Collaborate	208	31.95%	
	Educate	175	26.88%	

<b>Exhibit 2 Neonatal Nurse Practitioner (NNP)</b>		<b># per answer option</b>	<b>% per answer option</b>	<b>Total per item</b>
<b>Questions</b>	<b>Answer Options</b>			
	Refer	203	31.18%	651
Torticollis	Essential	371	56.81%	653
	Routinely seen	55	8.42%	
	Occasionally seen	189	28.94%	
	Rarely seen	295	45.18%	
	Never seen	48	7.35%	
	Diagnose	315	48.24%	
	Manage	299	45.79%	
	Collaborate	280	42.88%	
	Educate	253	38.74%	
	Refer	230	35.22%	
Are there other items that are routine to your practice that are not included in this list?	Yes	20	3.37%	594
	No	574	96.63%	
<b>Genetics and Neurological</b> - Indicate below the frequency, essentiality and nature of your practice regarding genetics and neurological care for the critically, chronically and convalescing neonate.				
Beckwith syndrome	Essential	334	50.84%	657
	Routinely seen	14	2.13%	
	Occasionally seen	154	23.44%	
	Rarely seen	378	57.53%	
	Never seen	60	9.13%	
	Diagnose	253	38.51%	
	Manage	303	46.12%	
	Collaborate	325	49.47%	
	Educate	248	37.75%	
	Refer	252	38.36%	
Chromosomal anomalies	Essential	441	67.02%	658
	Routinely seen	193	29.33%	
	Occasionally seen	300	45.59%	
	Rarely seen	63	9.57%	
	Never seen	0	0%	
	Diagnose	263	39.97%	
	Manage	317	48.18%	
	Collaborate	364	55.32%	
	Educate	281	42.71%	
	Refer	314	47.72%	
Cleft lip and palate	Essential	446	67.68%	659
	Routinely seen	120	18.21%	
	Occasionally seen	377	57.21%	
	Rarely seen	67	10.17%	
	Never seen	1	0.15%	
	Diagnose	377	57.21%	
	Manage	384	58.27%	
	Collaborate	367	55.69%	
	Educate	334	50.68%	
	Refer	316	47.95%	

<b>Exhibit 2 Neonatal Nurse Practitioner (NNP)</b>		# per answer option	% per answer option	Total per item
<b>Questions</b>	<b>Answer Options</b>			
Deletion/duplication	Essential	322	49.31%	653
	Routinely seen	75	11.49%	
	Occasionally seen	267	40.89%	
	Rarely seen	228	34.92%	
	Never seen	17	2.60%	
	Diagnose	203	31.09%	
	Manage	255	39.05%	
	Collaborate	314	48.09%	
	Educate	227	34.76%	
	Refer	307	47.01%	
Galactosemia	Essential	320	48.85%	655
	Routinely seen	13	1.98%	
	Occasionally seen	84	12.82%	
	Rarely seen	408	62.29%	
	Never seen	107	16.34%	
	Diagnose	224	34.20%	
	Manage	279	42.60%	
	Collaborate	292	44.58%	
	Educate	219	33.44%	
	Refer	271	41.37%	
Holoprosencephaly	Essential	321	48.93%	656
	Routinely seen	15	2.29%	
	Occasionally seen	129	19.66%	
	Rarely seen	406	61.89%	
	Never seen	57	8.69%	
	Diagnose	213	32.47%	
	Manage	277	42.23%	
	Collaborate	291	44.36%	
	Educate	225	34.30%	
	Refer	279	42.53%	
Hydrocephalus	Essential	439	66.82%	657
	Routinely seen	117	17.81%	
	Occasionally seen	285	43.38%	
	Rarely seen	155	23.59%	
	Never seen	7	1.07%	
	Diagnose	291	44.29%	
	Manage	336	51.14%	
	Collaborate	357	54.34%	
	Educate	291	44.29%	
	Refer	297	45.21%	
Hyperammonemia	Essential	317	48.84%	
	Routinely seen	16	2.47%	
	Occasionally seen	103	15.87%	
	Rarely seen	384	59.17%	
	Never seen	94	14.48%	
	Diagnose	268	41.29%	

<b>Exhibit 2 Neonatal Nurse Practitioner (NNP)</b>		<b># per answer option</b>	<b>% per answer option</b>	<b>Total per item</b>
<b>Questions</b>	<b>Answer Options</b>			
	Manage	271	41.76%	649
	Collaborate	295	45.45%	
	Educate	209	32.20%	
	Refer	236	36.36%	
Hypoxic ischemic encephalopathy	Essential	468	71.23%	657
	Routinely seen	182	27.70%	
	Occasionally seen	263	40.03%	
	Rarely seen	102	15.53%	
	Never seen	2	0.30%	
	Diagnose	355	54.03%	
	Manage	378	57.53%	
	Collaborate	349	53.12%	
	Educate	307	46.73%	
	Refer	213	32.42%	
Inborn errors of metabolism	Essential	386	58.75%	657
	Routinely seen	36	5.48%	
	Occasionally seen	190	28.92%	
	Rarely seen	332	50.53%	
	Never seen	27	4.11%	
	Diagnose	247	37.60%	
	Manage	301	45.81%	
	Collaborate	333	50.68%	
	Educate	247	37.60%	
	Refer	310	47.18%	
Intraventricular hemorrhage	Essential	508	77.20%	658
	Routinely seen	293	44.53%	
	Occasionally seen	164	24.92%	
	Rarely seen	45	6.84%	
	Never seen	5	0.76%	
	Diagnose	327	49.70%	
	Manage	389	59.12%	
	Collaborate	320	48.63%	
	Educate	324	49.24%	
	Refer	177	26.90%	
Jitteriness	Essential	502	76.52%	656
	Routinely seen	348	53.05%	
	Occasionally seen	128	19.51%	
	Rarely seen	13	1.98%	
	Never seen	1	0.15%	
	Diagnose	372	56.71%	
	Manage	391	59.60%	
	Collaborate	219	33.38%	
	Educate	284	43.29%	
	Refer	68	10.37%	
Multifactorial inheritance	Essential	279	43.39%	
	Routinely seen	64	9.95%	

<b>Exhibit 2 Neonatal Nurse Practitioner (NNP)</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	163	25.35%	643
	Rarely seen	281	43.70%	
	Never seen	74	11.51%	
	Diagnose	164	25.51%	
	Manage	218	33.90%	
	Collaborate	244	37.95%	
	Educate	186	28.93%	
	Refer	250	38.88%	
Neural tube defects	Essential	432	65.75%	657
	Routinely seen	88	13.39%	
	Occasionally seen	225	34.25%	
	Rarely seen	240	36.53%	
	Never seen	22	3.35%	
	Diagnose	309	47.03%	
	Manage	316	48.10%	
	Collaborate	328	49.92%	
	Educate	256	38.96%	
	Refer	322	49.01%	
Nondisjunction	Essential	268	41.74%	642
	Routinely seen	24	3.74%	
	Occasionally seen	117	18.22%	
	Rarely seen	312	48.60%	
	Never seen	136	21.18%	
	Diagnose	150	23.36%	
	Manage	194	30.22%	
	Collaborate	223	34.74%	
	Educate	162	25.23%	
	Refer	248	38.63%	
Osteogenesis imperfecta	Essential	352	53.66%	656
	Routinely seen	11	1.68%	
	Occasionally seen	102	15.55%	
	Rarely seen	423	64.48%	
	Never seen	72	10.98%	
	Diagnose	240	36.59%	
	Manage	291	44.36%	
	Collaborate	310	47.26%	
	Educate	241	36.74%	
	Refer	295	44.97%	
PKU	Essential	360	55.05%	
	Routinely seen	16	2.45%	
	Occasionally seen	88	13.46%	
	Rarely seen	346	52.91%	
	Never seen	144	22.02%	
	Diagnose	219	33.49%	
	Manage	269	41.13%	
	Collaborate	275	42.05%	

<b>Exhibit 2 Neonatal Nurse Practitioner (NNP)</b>				
<b>Questions</b>	<b>Answer Options</b>	<b># per answer option</b>	<b>% per answer option</b>	<b>Total per item</b>
	Educate	227	34.71%	654
	Refer	263	40.21%	
Potter syndrome	Essential	346	52.74%	656
	Routinely seen	14	2.13%	
	Occasionally seen	111	16.92%	
	Rarely seen	422	64.33%	
	Never seen	61	9.30%	
	Diagnose	260	39.63%	
	Manage	308	46.95%	
	Collaborate	292	44.51%	
	Educate	235	35.82%	
	Refer	230	35.06%	
Seizures	Essential	482	73.36%	657
	Routinely seen	218	33.18%	
	Occasionally seen	249	37.90%	
	Rarely seen	59	8.98%	
	Never seen	2	0.30%	
	Diagnose	367	55.86%	
	Manage	388	59.06%	
	Collaborate	353	53.73%	
	Educate	299	45.51%	
	Refer	255	38.81%	
Sex linked inheritance	Essential	323	49.77%	649
	Routinely seen	36	5.55%	
	Occasionally seen	162	24.96%	
	Rarely seen	327	50.39%	
	Never seen	58	8.94%	
	Diagnose	181	27.89%	
	Manage	231	35.59%	
	Collaborate	265	40.83%	
	Educate	197	30.35%	
	Refer	266	40.99%	
Subdurals	Essential	378	57.71%	655
	Routinely seen	70	10.69%	
	Occasionally seen	209	31.91%	
	Rarely seen	276	42.14%	
	Never seen	32	4.89%	
	Diagnose	281	42.90%	
	Manage	333	50.84%	
	Collaborate	306	46.72%	
	Educate	246	37.56%	
	Refer	203	30.99%	
Translocation	Essential	304	46.91%	
	Routinely seen	29	4.48%	
	Occasionally seen	172	26.54%	
	Rarely seen	336	51.85%	

<b>Exhibit 2 Neonatal Nurse Practitioner (NNP)</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	51	7.87%	648
	Diagnose	191	29.48%	
	Manage	238	36.73%	
	Collaborate	273	42.13%	
	Educate	204	31.48%	
	Refer	262	40.43%	
Trisomy 13	Essential	392	59.76%	656
	Routinely seen	33	5.03%	
	Occasionally seen	205	31.25%	
	Rarely seen	331	50.46%	
	Never seen	25	3.81%	
	Diagnose	261	39.79%	
	Manage	326	49.70%	
	Collaborate	324	49.39%	
	Educate	281	42.84%	
	Refer	244	37.20%	
Trisomy 18	Essential	395	60.31%	655
	Routinely seen	36	5.50%	
	Occasionally seen	215	32.82%	
	Rarely seen	318	48.55%	
	Never seen	21	3.21%	
	Diagnose	269	41.07%	
	Manage	328	50.08%	
	Collaborate	328	50.08%	
	Educate	278	42.44%	
	Refer	247	37.71%	
Trisomy 21	Essential	450	68.39%	658
	Routinely seen	182	27.66%	
	Occasionally seen	285	43.31%	
	Rarely seen	78	11.85%	
	Never seen	2	0.30%	
	Diagnose	319	48.48%	
	Manage	374	56.84%	
	Collaborate	353	53.65%	
	Educate	309	46.96%	
	Refer	261	39.67%	
Turner syndrome	Essential	367	56.20%	653
	Routinely seen	26	3.98%	
	Occasionally seen	182	27.87%	
	Rarely seen	345	52.83%	
	Never seen	37	5.67%	
	Diagnose	259	39.66%	
	Manage	321	49.16%	
	Collaborate	323	49.46%	
	Educate	259	39.66%	
	Refer	261	39.97%	



<b>Exhibit 2 Neonatal Nurse Practitioner (NNP)</b>		# per answer option	% per answer option	Total per item
<b>Questions</b>	<b>Answer Options</b>			
VACTERL/VATER syndrome	Essential	391	59.79%	654
	Routinely seen	76	11.62%	
	Occasionally seen	203	31.04%	
	Rarely seen	268	40.98%	
	Never seen	30	4.59%	
	Diagnose	281	42.97%	
	Manage	330	50.46%	
	Collaborate	334	51.07%	
	Educate	264	40.37%	
	Refer	299	45.72%	
Are there other items that are routine to your practice that are not included in this list?	Yes	21	3.61%	582
	No	561	96.39%	
<b>Ears, Eyes, Nose and Mouth/Throat and Drug Exposure</b> - Indicate below the frequency, essentiality and nature of your practice regarding ears, eyes, nose and mouth/throat and drug exposure care for the critically, chronically and convalescing neonate.				
Cataracts	Essential	305	45.25%	674
	Routinely seen	8	1.19%	
	Occasionally seen	93	13.80%	
	Rarely seen	423	62.76%	
	Never seen	103	15.28%	
	Diagnose	236	35.01%	
	Manage	156	23.15%	
	Collaborate	263	39.02%	
	Educate	195	28.93%	
	Refer	319	47.33%	
Cleft lip and palate	Essential	444	65.49%	678
	Routinely seen	120	17.70%	
	Occasionally seen	390	57.52%	
	Rarely seen	80	11.80%	
	Never seen	0	0%	
	Diagnose	386	56.93%	
	Manage	379	55.90%	
	Collaborate	375	55.31%	
	Educate	350	51.62%	
	Refer	316	46.61%	
Coloboma	Essential	304	44.97%	676
	Routinely seen	12	1.78%	
	Occasionally seen	129	19.08%	
	Rarely seen	408	60.36%	
	Never seen	76	11.24%	
	Diagnose	242	35.80%	
	Manage	166	24.56%	
	Collaborate	243	35.95%	
	Educate	192	28.40%	
	Refer	282	41.72%	

<b>Exhibit 2 Neonatal Nurse Practitioner (NNP)</b>		<b># per answer option</b>	<b>% per answer option</b>	<b>Total per item</b>
<b>Questions</b>	<b>Answer Options</b>			
Conjunctivitis	Essential	424	62.63%	677
	Routinely seen	153	22.60%	
	Occasionally seen	301	44.46%	
	Rarely seen	126	18.61%	
	Never seen	5	0.74%	
	Diagnose	392	57.90%	
	Manage	415	61.30%	
	Collaborate	190	28.06%	
	Educate	261	38.55%	
	Refer	44	6.50%	
Corneal abrasion	Essential	236	35.38%	667
	Routinely seen	10	1.50%	
	Occasionally seen	74	11.09%	
	Rarely seen	314	47.08%	
	Never seen	229	34.33%	
	Diagnose	136	20.39%	
	Manage	163	24.44%	
	Collaborate	194	29.09%	
	Educate	138	20.69%	
	Refer	210	31.48%	
Eye prophylaxis	Essential	574	85.04%	675
	Routinely seen	347	51.41%	
	Occasionally seen	47	6.96%	
	Rarely seen	27	4%	
	Never seen	10	1.48%	
	Diagnose	200	29.63%	
	Manage	329	48.74%	
	Collaborate	131	19.41%	
	Educate	265	39.26%	
	Refer	36	5.33%	
Fetal alcohol syndrome	Essential	378	55.92%	676
	Routinely seen	28	4.14%	
	Occasionally seen	205	30.33%	
	Rarely seen	343	50.74%	
	Never seen	48	7.10%	
	Diagnose	303	44.82%	
	Manage	342	50.59%	
	Collaborate	312	46.15%	
	Educate	284	42.01%	
	Refer	211	31.21%	
Glaucoma	Essential	253	37.70%	
	Routinely seen	9	1.34%	
	Occasionally seen	46	6.86%	
	Rarely seen	345	51.42%	
	Never seen	225	33.53%	
	Diagnose	111	16.54%	

<b>Exhibit 2 Neonatal Nurse Practitioner (NNP)</b>		<b># per answer option</b>	<b>% per answer option</b>	<b>Total per item</b>
<b>Questions</b>	<b>Answer Options</b>			
	Manage	152	22.65%	671
	Collaborate	203	30.25%	
	Educate	142	21.16%	
	Refer	274	40.83%	
Malformation of the ears	Essential	377	55.69%	677
	Routinely seen	77	11.37%	
	Occasionally seen	297	43.87%	
	Rarely seen	232	34.27%	
	Never seen	6	0.89%	
	Diagnose	338	49.93%	
	Manage	261	38.55%	
	Collaborate	281	41.51%	
	Educate	247	36.48%	
	Refer	271	40.03%	
Nasolacrimal duct obstruction	Essential	402	59.73%	673
	Routinely seen	171	25.41%	
	Occasionally seen	228	33.88%	
	Rarely seen	164	24.37%	
	Never seen	20	2.97%	
	Diagnose	359	53.34%	
	Manage	382	56.76%	
	Collaborate	205	30.46%	
	Educate	290	43.09%	
	Refer	96	14.26%	
Neonatal withdrawal	Essential	554	81.83%	677
	Routinely seen	355	52.44%	
	Occasionally seen	121	17.87%	
	Rarely seen	8	1.18%	
	Never seen	2	0.30%	
	Diagnose	419	61.89%	
	Manage	439	64.84%	
	Collaborate	311	45.94%	
	Educate	366	54.06%	
	Refer	70	10.34%	
Retinopathy of prematurity	Essential	532	78.47%	678
	Routinely seen	282	41.59%	
	Occasionally seen	141	20.80%	
	Rarely seen	57	8.41%	
	Never seen	10	1.47%	
	Diagnose	161	23.75%	
	Manage	278	41.00%	
	Collaborate	356	52.51%	
	Educate	310	45.72%	
	Refer	331	48.82%	
Strabismus	Essential	301	45.06%	
	Routinely seen	57	8.53%	

<b>Exhibit 2 Neonatal Nurse Practitioner (NNP)</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	183	27.40%	668
	Rarely seen	281	42.07%	
	Never seen	80	11.98%	
	Diagnose	198	29.64%	
	Manage	163	24.40%	
	Collaborate	228	34.13%	
	Educate	203	30.39%	
	Refer	270	40.42%	
Are there other items that are routine to your practice that are not included in this list?	Yes	35	5.80%	603
	No	568	94.20%	
<b>Pharmacology</b>				
<b>Pharmacology</b> - Listed below are a variety of issues related to pharmacology. Please indicate the essentiality and frequency in which you encounter or need the requisite knowledge regarding pharmacologic action of neonatal drugs.				
Knowledge of pharmacokinetics (absorption, distribution, etc.)	Essential	515	77.79%	662
	Routinely	348	52.57%	
	Occasionally	60	9.06%	
	Rarely	13	1.96%	
	Never	1	0.15%	
Principles of administration (dosage, route, etc)	Essential	616	92.91%	663
	Routinely	317	47.81%	
	Occasionally	5	0.75%	
	Rarely	2	0.30%	
	Never	0	0%	
Principles of placental drug transfer	Essential	458	69.60%	658
	Routinely	333	50.61%	
	Occasionally	108	16.41%	
	Rarely	20	3.04%	
	Never	2	0.30%	
<b>What drug categories do you prescribe on a routine basis.</b>				
Analgesics/narcotics	Prescribe routinely	501	73.35%	683
	Prescribe occasionally	137	20.06%	
	Prescribe rarely	26	3.81%	
	Never prescribe	19	2.78%	
Anesthetics/paralytcs	Prescribe routinely	172	25.33%	679
	Prescribe occasionally	245	36.08%	
	Prescribe rarely	201	29.60%	
	Never prescribe	61	8.98%	
Antacids/GI motility	Prescribe routinely	231	33.87%	682
	Prescribe occasionally	265	38.86%	
	Prescribe rarely	166	24.34%	
	Never prescribe	20	2.93%	
Antibiotics	Prescribe routinely	667	97.66%	
	Prescribe occasionally	13	1.90%	
	Prescribe rarely	1	0.15%	

<b>Exhibit 2 Neonatal Nurse Practitioner (NNP)</b>				
<b>Questions</b>	<b>Answer Options</b>	<b># per answer option</b>	<b>% per answer option</b>	<b>Total per item</b>
	Never prescribe	2	0.29%	683
Anticoagulants	Prescribe routinely	200	29.28%	683
	Prescribe occasionally	203	29.72%	
	Prescribe rarely	202	29.58%	
	Never prescribe	78	11.42%	
Anticonvulsants	Prescribe routinely	207	30.40%	681
	Prescribe occasionally	336	49.34%	
	Prescribe rarely	127	18.65%	
	Never prescribe	11	1.62%	
Antidysrhythmia drugs	Prescribe routinely	59	8.64%	683
	Prescribe occasionally	276	40.41%	
	Prescribe rarely	299	43.78%	
	Never prescribe	49	7.17%	
Antifungals	Prescribe routinely	199	29.09%	684
	Prescribe occasionally	285	41.67%	
	Prescribe rarely	183	26.75%	
	Never prescribe	17	2.49%	
Antihypertensives	Prescribe routinely	94	13.74%	684
	Prescribe occasionally	280	40.94%	
	Prescribe rarely	259	37.87%	
	Never prescribe	51	7.46%	
Antivirals	Prescribe routinely	129	18.91%	682
	Prescribe occasionally	303	44.43%	
	Prescribe rarely	215	31.52%	
	Never prescribe	35	5.13%	
Betablockers	Prescribe routinely	58	8.54%	679
	Prescribe occasionally	257	37.85%	
	Prescribe rarely	289	42.56%	
	Never prescribe	75	11.05%	
Bronchodilators	Prescribe routinely	278	40.70%	683
	Prescribe occasionally	254	37.19%	
	Prescribe rarely	128	18.74%	
	Never prescribe	23	3.37%	
Calcium channel blockers	Prescribe routinely	55	8.11%	678
	Prescribe occasionally	218	32.15%	
	Prescribe rarely	307	45.28%	
	Never prescribe	98	14.45%	
Diuretics	Prescribe routinely	426	62.65%	680
	Prescribe occasionally	191	28.09%	
	Prescribe rarely	47	6.91%	
	Never prescribe	16	2.35%	
Ferrous Sulphate	Prescribe routinely	546	79.94%	683
	Prescribe occasionally	86	12.59%	
	Prescribe rarely	39	5.71%	
	Never prescribe	12	1.76%	
Hypoglycemic agents	Prescribe routinely	319	46.71%	

<b>Exhibit 2 Neonatal Nurse Practitioner (NNP)</b>		<b># per answer option</b>	<b>% per answer option</b>	<b>Total per item</b>
<b>Questions</b>	<b>Answer Options</b>			
	Prescribe occasionally	188	27.53%	683
	Prescribe rarely	134	19.62%	
	Never prescribe	42	6.15%	
Immunoglobulins	Prescribe routinely	94	13.76%	683
	Prescribe occasionally	279	40.85%	
	Prescribe rarely	279	40.85%	
	Never prescribe	31	4.54%	
Inhaled nitric oxide	Prescribe routinely	256	37.54%	682
	Prescribe occasionally	228	33.43%	
	Prescribe rarely	106	15.54%	
	Never prescribe	92	13.49%	
Inotropes	Prescribe routinely	299	43.84%	682
	Prescribe occasionally	231	33.87%	
	Prescribe rarely	123	18.04%	
	Never prescribe	29	4.25%	
Respiratory stimulants	Prescribe routinely	515	75.40%	683
	Prescribe occasionally	107	15.67%	
	Prescribe rarely	37	5.42%	
	Never prescribe	24	3.51%	
Sedatives/hypnotics	Prescribe routinely	391	57.25%	683
	Prescribe occasionally	182	26.65%	
	Prescribe rarely	78	11.42%	
	Never prescribe	32	4.69%	
Steroids	Prescribe routinely	268	39.24%	683
	Prescribe occasionally	257	37.63%	
	Prescribe rarely	118	17.28%	
	Never prescribe	40	5.86%	
Surfactant	Prescribe routinely	556	81.52%	682
	Prescribe occasionally	98	14.37%	
	Prescribe rarely	19	2.79%	
	Never prescribe	9	1.32%	
Vaccinations	Prescribe routinely	578	84.88%	681
	Prescribe occasionally	83	12.19%	
	Prescribe rarely	14	2.06%	
	Never prescribe	6	0.88%	
Vasodilators	Prescribe routinely	233	34.06%	684
	Prescribe occasionally	262	38.30%	
	Prescribe rarely	154	22.51%	
	Never prescribe	35	5.12%	
Vitamins	Prescribe routinely	622	91.47%	680
	Prescribe occasionally	41	6.03%	
	Prescribe rarely	12	1.76%	
	Never prescribe	5	0.74%	
Other	Prescribe routinely	29	35.80%	
	Prescribe occasionally	11	13.58%	
	Prescribe rarely	2	2.47%	

Exhibit 2 Neonatal Nurse Practitioner (NNP) Questions		Answer Options	# per answer option	% per answer option	Total per item
		Never prescribe	39	48.15%	81
<b>Specified Skills</b>					
<b>Skills - General Assessment</b> - Listed below are a variety of skills used in providing care to the neonate and family. Please indicate the frequency and the knowledge essentiality applicable to the performance of these skills as it applies to the neonates you manage.					
Auscultate heart and lungs	Essential	690	98.57%	700	
	Routinely done	372	53.14%		
	Occasionally done	2	0.29%		
	Rarely done	0	0%		
	Never done	2	0.29%		
Conduct a physical exam	Essential	689	98.85%	697	
	Routinely done	370	53.08%		
	Occasionally done	0	0%		
	Rarely done	1	0.14%		
	Never done	1	0.14%		
Determine gestational age	Essential	628	90.23%	696	
	Routinely done	354	50.86%		
	Occasionally done	52	7.47%		
	Rarely done	16	2.30%		
	Never done	1	0.14%		
Determine perinatal factors (antepartum and intrapartum) that affect the neonate.	Essential	665	95.14%	699	
	Routinely done	386	55.22%		
	Occasionally done	7	1.00%		
	Rarely done	0	0%		
	Never done	1	0.14%		
Document maternal conditions, treatments and delivery room history that impact the newborn.	Essential	661	94.84%	697	
	Routinely done	395	56.67%		
	Occasionally done	3	0.43%		
	Rarely done	0	0%		
	Never done	2	0.29%		
Document maternal labs and diagnostic procedures that impact the neonate	Essential	650	92.99%	699	
	Routinely done	384	54.94%		
	Occasionally done	17	2.43%		
	Rarely done	2	0.29%		
	Never done	1	0.14%		
Evaluate clinical laboratory tests results	Essential	683	97.99%	697	
	Routinely done	378	54.23%		
	Occasionally done	0	0%		
	Rarely done	0	0%		
	Never done	0	0%		
Evaluate results of diagnostic procedures	Essential	662	94.98%	697	
	Routinely done	378	54.23%		
	Occasionally done	12	1.72%		
	Rarely done	0	0%		
	Never done	1	0.14%		
Evaluate the appropriate growth of the infant at birth (AGA, SGA, LGA)	Essential	649	92.85%		
	Routinely done	392	56.08%		

<b>Exhibit 2 Neonatal Nurse Practitioner (NNP)</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	10	1.43%	699
	Rarely done	2	0.29%	
	Never done	1	0.14%	
Formulate a diagnosis and plan of care	Essential	681	97.42%	699
	Routinely done	377	53.93%	
	Occasionally done	2	0.29%	
	Rarely done	0	0%	
	Never done	1	0.14%	
Identify barriers to parent/infant interactions	Essential	593	84.96%	698
	Routinely done	392	56.16%	
	Occasionally done	57	8.17%	
	Rarely done	4	0.57%	
	Never done	1	0.14%	
Maintain and apply knowledge of equipment used in practice	Essential	599	86.06%	696
	Routinely done	399	57.33%	
	Occasionally done	40	5.75%	
	Rarely done	7	1.01%	
	Never done	0	0%	
Obtain family history and address factors affecting family integration	Essential	572	81.83%	699
	Routinely done	387	55.36%	
	Occasionally done	68	9.73%	
	Rarely done	8	1.14%	
	Never done	2	0.29%	
Order diagnostic procedures	Essential	661	94.70%	698
	Routinely done	377	54.01%	
	Occasionally done	11	1.58%	
	Rarely done	1	0.14%	
	Never done	2	0.29%	
Palpate abdominal structures	Essential	636	91.12%	698
	Routinely done	382	54.73%	
	Occasionally done	23	3.30%	
	Rarely done	2	0.29%	
	Never done	1	0.14%	
Perform a behavioral assessment	Essential	492	71.10%	692
	Routinely done	323	46.68%	
	Occasionally done	101	14.60%	
	Rarely done	46	6.65%	
	Never done	26	3.76%	
Perform a neurological assessment	Essential	619	88.56%	699
	Routinely done	379	54.22%	
	Occasionally done	38	5.44%	
	Rarely done	6	0.86%	
	Never done	2	0.29%	
Perform maternal consultations	Essential	462	66.28%	
	Routinely done	285	40.89%	
	Occasionally done	132	18.94%	



<b>Exhibit 2 Neonatal Nurse Practitioner (NNP)</b>		<b># per answer option</b>	<b>% per answer option</b>	<b>Total per item</b>
<b>Questions</b>	<b>Answer Options</b>			
	Rarely done	56	8.03%	697
	Never done	57	8.18%	
Perform newborn consultations	Essential	536	77.23%	694
	Routinely done	326	46.97%	
	Occasionally done	94	13.54%	
	Rarely done	32	4.61%	
	Never done	25	3.60%	
Plan the discharge and follow up needs	Essential	620	88.95%	697
	Routinely done	386	55.38%	
	Occasionally done	27	3.87%	
	Rarely done	7	1.00%	
	Never done	4	0.57%	
Review fetal assessments, ultrasounds and diagnostics tests that impact care	Essential	552	79.42%	695
	Routinely done	367	52.81%	
	Occasionally done	67	9.64%	
	Rarely done	22	3.17%	
	Never done	10	1.44%	
Utilize adult learning principles when teaching others	Essential	535	77.09%	694
	Routinely done	382	55.04%	
	Occasionally done	74	10.66%	
	Rarely done	11	1.59%	
	Never done	6	0.86%	
Utilize knowledge of growth and development for the high risk infant up to 1 year of age	Essential	525	75.76%	693
	Routinely done	348	50.22%	
	Occasionally done	98	14.14%	
	Rarely done	24	3.46%	
	Never done	12	1.73%	
Utilize your knowledge of the grieving process	Essential	530	76.26%	695
	Routinely done	343	49.35%	
	Occasionally done	127	18.27%	
	Rarely done	27	3.88%	
	Never done	1	0.14%	
Are there other skills that are routine to your practice that are not included in this list?	Yes	47	7.39%	636
	No	589	92.61%	
<b>Skills - Diagnostic Procedures, Techniques and Equipment</b> - Listed below are a variety of skills used in diagnostic procedures, techniques and equipment. Please indicate the frequency and the knowledge essentiality applicable to the performance of these skills as it applies to the neonates you manage.				
<b>Order and evaluate the following:</b>				
CT Scan	Essential	357	52.42%	681
	Routinely done	184	27.02%	
	Occasionally done	293	43.02%	
	Rarely done	107	15.71%	
	Never done	14	2.06%	
ECHO	Essential	500	73.10%	
	Routinely done	423	61.84%	

<b>Exhibit 2 Neonatal Nurse Practitioner (NNP)</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	76	11.11%	684
	Rarely done	7	1.02%	
	Never done	6	0.88%	
EEG	Essential	391	57.33%	682
	Routinely done	241	35.34%	
	Occasionally done	271	39.74%	
	Rarely done	59	8.65%	
	Never done	14	2.05%	
EKG	Essential	433	63.21%	685
	Routinely done	251	36.64%	
	Occasionally done	265	38.69%	
	Rarely done	51	7.45%	
	Never done	2	0.29%	
Head Ultrasounds	Essential	552	80.58%	685
	Routinely done	425	62.04%	
	Occasionally done	29	4.23%	
	Rarely done	10	1.46%	
	Never done	5	0.73%	
MRI	Essential	379	55.65%	681
	Routinely done	234	34.36%	
	Occasionally done	265	38.91%	
	Rarely done	74	10.87%	
	Never done	14	2.06%	
x-rays	Essential	638	92.87%	687
	Routinely done	405	58.95%	
	Occasionally done	14	2.04%	
	Rarely done	1	0.15%	
	Never done	1	0.15%	
<b>Perform the following:</b>				
Arterial stick	Essential	600	86.71%	692
	Routinely done	324	46.82%	
	Occasionally done	110	15.90%	
	Rarely done	27	3.90%	
	Never done	4	0.58%	
Bag mask ventilation	Essential	668	96.25%	694
	Routinely done	378	54.47%	
	Occasionally done	34	4.90%	
	Rarely done	4	0.58%	
	Never done	2	0.29%	
Chest compressions	Essential	629	90.90%	692
	Routinely done	148	21.39%	
	Occasionally done	244	35.26%	
	Rarely done	56	8.09%	
	Never done	3	0.43%	
Chest tube insertion	Essential	513	74.13%	
	Routinely done	77	11.13%	

<b>Exhibit 2 Neonatal Nurse Practitioner (NNP)</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	258	37.28%	692
	Rarely done	180	26.01%	
	Never done	31	4.48%	
Chest tube removal	Essential	502	72.54%	692
	Routinely done	96	13.87%	
	Occasionally done	245	35.40%	
	Rarely done	176	25.43%	
	Never done	29	4.19%	
Exchange Transfusion	Essential	433	62.57%	692
	Routinely done	30	4.34%	
	Occasionally done	139	20.09%	
	Rarely done	379	54.77%	
	Never done	56	8.09%	
Intubation	Essential	651	93.80%	694
	Routinely done	371	53.46%	
	Occasionally done	54	7.78%	
	Rarely done	6	0.86%	
	Never done	3	0.43%	
Lumbar puncture	Essential	589	84.87%	694
	Routinely done	276	39.77%	
	Occasionally done	165	23.78%	
	Rarely done	36	5.19%	
	Never done	10	1.44%	
Needle aspiration	Essential	546	78.67%	694
	Routinely done	100	14.41%	
	Occasionally done	278	40.06%	
	Rarely done	137	19.74%	
	Never done	15	2.16%	
Ophthalmologic exam	Essential	434	63.08%	688
	Routinely done	296	43.02%	
	Occasionally done	79	11.48%	
	Rarely done	57	8.28%	
	Never done	126	18.31%	
Otoscopic exam	Essential	352	51.01%	690
	Routinely done	147	21.30%	
	Occasionally done	142	20.58%	
	Rarely done	221	32.03%	
	Never done	99	14.35%	
Peripheral arterial line (PAL)	Essential	480	69.26%	693
	Routinely done	178	25.69%	
	Occasionally done	190	27.42%	
	Rarely done	116	16.74%	
	Never done	66	9.52%	
Peripherally inserted central catheter (PICC)	Essential	512	74.10%	
	Routinely done	300	43.42%	
	Occasionally done	95	13.75%	

<b>Exhibit 2 Neonatal Nurse Practitioner (NNP)</b>		<b># per answer option</b>	<b>% per answer option</b>	<b>Total per item</b>
<b>Questions</b>	<b>Answer Options</b>			
	Rarely done	57	8.25%	691
	Never done	69	9.99%	
Suprapubic bladder tap	Essential	345	50.07%	689
	Routinely done	76	11.03%	
	Occasionally done	146	21.19%	
	Rarely done	241	34.98%	
	Never done	156	22.64%	
T-piece ventilation	Essential	517	75.58%	684
	Routinely done	269	39.33%	
	Occasionally done	83	12.13%	
	Rarely done	64	9.36%	
	Never done	84	12.28%	
Umbilical catheterization	Essential	645	92.94%	694
	Routinely done	372	53.60%	
	Occasionally done	51	7.35%	
	Rarely done	10	1.44%	
	Never done	3	0.43%	
Urinary catheterization	Essential	551	79.74%	691
	Routinely done	263	38.06%	
	Occasionally done	147	21.27%	
	Rarely done	71	10.27%	
	Never done	18	2.60%	
Venous stick	Essential	598	86.79%	689
	Routinely done	353	51.23%	
	Occasionally done	67	9.72%	
	Rarely done	34	4.93%	
	Never done	4	0.58%	
<b>Order, manage infants on and trouble shoot the following:</b>				
CPAP	Essential	663	94.99%	698
	Routinely done	394	56.45%	
	Occasionally done	9	1.29%	
	Rarely done	6	0.86%	
	Never done	5	0.72%	
ECMO	Essential	194	28.36%	684
	Routinely done	45	6.58%	
	Occasionally done	86	12.57%	
	Rarely done	105	15.35%	
	Never done	422	61.70%	
End tidal CO2 monitoring	Essential	407	59.07%	689
	Routinely done	206	29.90%	
	Occasionally done	133	19.30%	
	Rarely done	108	15.67%	
	Never done	112	16.26%	
High flow cannulae	Essential	631	90.66%	
	Routinely done	383	55.03%	
	Occasionally done	31	4.45%	

<b>Exhibit 2 Neonatal Nurse Practitioner (NNP)</b>		# per answer option	% per answer option	Total per item
<b>Questions</b>	<b>Answer Options</b>			
	Rarely done	13	1.87%	696
	Never done	12	1.72%	
High frequency ventilators	Essential	578	82.93%	697
	Routinely done	319	45.77%	
	Occasionally done	76	10.90%	
	Rarely done	33	4.73%	
	Never done	46	6.60%	
Incubators and radiant warmers	Essential	648	92.97%	697
	Routinely done	415	59.54%	
	Occasionally done	7	1.00%	
	Rarely done	3	0.43%	
	Never done	1	0.14%	
Invasive and noninvasive blood gas monitoring	Essential	648	92.97%	697
	Routinely done	395	56.67%	
	Occasionally done	21	3.01%	
	Rarely done	5	0.72%	
	Never done	6	0.86%	
Neonatal conventional ventilators	Essential	654	94.37%	693
	Routinely done	388	55.99%	
	Occasionally done	24	3.46%	
	Rarely done	5	0.72%	
	Never done	6	0.87%	
Phototherapy	Essential	658	94.54%	696
	Routinely done	411	59.05%	
	Occasionally done	6	0.86%	
	Rarely done	1	0.14%	
	Never done	1	0.14%	
Tracheostomies	Essential	362	52.39%	691
	Routinely done	109	15.77%	
	Occasionally done	164	23.73%	
	Rarely done	185	26.77%	
	Never done	153	22.14%	
Are there other skills that are routine to your practice that are not included in this list?	Yes	58	9.13%	635
	No	577	90.87%	
<b>Skills - General Management</b> - Listed below are a variety of skills used in providing care to the neonate. Please indicate the frequency and the knowledge essentiality applicable to the performance of these skills as it applies to the neonates you manage.				
Develop feeding plans	Essential	643	93.19%	690
	Routinely done	416	60.29%	
	Occasionally done	10	1.45%	
	Rarely done	1	0.14%	
	Never done	3	0.43%	
Document plan of care and response to interventions	Essential	644	93.74%	
	Routinely done	406	59.10%	
	Occasionally done	14	2.04%	

<b>Exhibit 2 Neonatal Nurse Practitioner (NNP)</b>		# per answer option	% per answer option	Total per item
<b>Questions</b>	<b>Answer Options</b>			
	Rarely done	1	0.15%	687
	Never done	2	0.29%	
Evaluate and respond to drug levels	Essential	612	88.82%	689
	Routinely done	393	57.04%	
	Occasionally done	54	7.84%	
	Rarely done	5	0.73%	
	Never done	3	0.44%	
Evaluate drug interactions	Essential	548	79.65%	688
	Routinely done	351	51.02%	
	Occasionally done	108	15.70%	
	Rarely done	27	3.92%	
	Never done	4	0.58%	
Evaluate drugs and breast-feeding	Essential	535	77.99%	686
	Routinely done	388	56.56%	
	Occasionally done	105	15.31%	
	Rarely done	10	1.46%	
	Never done	4	0.58%	
Evaluate the nutritional status of the neonate using key indicators	Essential	622	90.54%	687
	Routinely done	408	59.39%	
	Occasionally done	25	3.64%	
	Rarely done	2	0.29%	
	Never done	2	0.29%	
Formulate the diagnosis and plan of care with an inter-professional team	Essential	637	92.86%	686
	Routinely done	406	59.18%	
	Occasionally done	16	2.33%	
	Rarely done	5	0.73%	
	Never done	3	0.44%	
Maintain current knowledge about advances in neonatal care	Essential	645	93.75%	688
	Routinely done	412	59.88%	
	Occasionally done	12	1.74%	
	Rarely done	0	0%	
	Never done	1	0.15%	
Make consultations and referrals	Essential	584	84.76%	689
	Routinely done	415	60.23%	
	Occasionally done	43	6.24%	
	Rarely done	8	1.16%	
	Never done	5	0.73%	
Manage fluid and electrolytes	Essential	666	97.08%	686
	Routinely done	401	58.45%	
	Occasionally done	2	0.29%	
	Rarely done	3	0.44%	
	Never done	1	0.15%	
Manage infant's acid/base status	Essential	660	96.35%	
	Routinely done	395	57.66%	
	Occasionally done	9	1.31%	
	Rarely done	2	0.29%	

<b>Exhibit 2 Neonatal Nurse Practitioner (NNP)</b>		# per answer option	% per answer option	Total per item
<b>Questions</b>	<b>Answer Options</b>			
	Never done	1	0.15%	685
Manage infants during transport	Essential	376	54.81%	686
	Routinely done	169	24.64%	
	Occasionally done	94	13.70%	
	Rarely done	115	16.76%	
	Never done	196	28.57%	
Manage the enteral nutritional needs of the neonate	Essential	654	95.47%	685
	Routinely done	408	59.56%	
	Occasionally done	3	0.44%	
	Rarely done	4	0.58%	
	Never done	1	0.15%	
Manage the thermoregulation of the neonate	Essential	643	93.60%	687
	Routinely done	404	58.81%	
	Occasionally done	11	1.60%	
	Rarely done	7	1.02%	
	Never done	2	0.29%	
Modify the plan of care based on ongoing evaluation	Essential	661	96.08%	688
	Routinely done	409	59.45%	
	Occasionally done	0	0%	
	Rarely done	1	0.15%	
	Never done	2	0.29%	
Monitor the side-effects of drugs	Essential	602	88.01%	684
	Routinely done	406	59.36%	
	Occasionally done	39	5.70%	
	Rarely done	8	1.17%	
	Never done	2	0.29%	
Order appropriate drugs, dosage, interval and route	Essential	652	94.91%	687
	Routinely done	410	59.68%	
	Occasionally done	4	0.58%	
	Rarely done	1	0.15%	
	Never done	2	0.29%	
Order drips (i.e. pressors, prostins)	Essential	602	87.88%	685
	Routinely done	333	48.61%	
	Occasionally done	80	11.68%	
	Rarely done	35	5.11%	
	Never done	8	1.17%	
Order parenteral fluids	Essential	648	94.74%	684
	Routinely done	384	56.14%	
	Occasionally done	19	2.78%	
	Rarely done	7	1.02%	
	Never done	4	0.58%	
Provide education about SIDS and/or shaken baby syndrome	Essential	473	69.05%	685
	Routinely done	276	40.29%	
	Occasionally done	149	21.75%	
	Rarely done	86	12.55%	
	Never done	28	4.09%	

<b>Exhibit 2 Neonatal Nurse Practitioner (NNP)</b>		# per answer option	% per answer option	Total per item
Questions	Answer Options			
Provide neonatal resuscitation	Essential	657	95.91%	685
	Routinely done	367	53.58%	
	Occasionally done	40	5.84%	
	Rarely done	7	1.02%	
	Never done	1	0.15%	
Provide neonatal stabilization	Essential	661	96.36%	686
	Routinely done	392	57.14%	
	Occasionally done	13	1.90%	
	Rarely done	1	0.15%	
	Never done	1	0.15%	
Are there other skills that are routine to your practice that are not included in this list?	Yes	23	3.65%	630
	No	607	96.35%	
<b>Professional Practice</b> - Which of the following professional issues are essential to the NNP practice?				
Ethical Issues	Yes	560	98.07%	571
	No	11	1.93%	
Evidence-Based Practice	Yes	563	98.95%	569
	No	6	1.05%	
Informed Consent	Yes	567	99.47%	570
	No	3	0.53%	
Legal Issues	Yes	548	96.14%	570
	No	22	3.86%	
Nursing Research	Yes	512	90.14%	568
	No	56	9.86%	
Patient Safety	Yes	559	99.11%	564
	No	5	0.89%	
Are there other items that are routine to your practice that are not included in this list?	Yes	27	5.24%	515
	No	488	94.76%	
<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?				
General Assessment at 15-20%	Under- represented	150	26.36%	569
	Over- represented	16	2.81%	
	Just about right	403	70.83%	
General Management at 20-30%	Under- represented	158	27.87%	567
	Over- represented	7	1.23%	
	Just about right	402	70.90%	
The Disease Process at 45-55%	Under- represented	17	3.00%	566
	Over- represented	179	31.63%	
	Just about right	370	65.37%	
Professional Issues at less than 5%	Under- represented	73	12.85%	568
	Over- represented	34	5.99%	
	Just about right	461	81.16%	
<b>General Assessment</b> - Does this content adequately reflect what is applied to your daily practice?				



<b>Exhibit 2 Neonatal Nurse Practitioner (NNP)</b>		# per answer option	% per answer option	Total per item
Questions	Answer Options			
Perinatal	Yes	496	87.17%	569
	No	38	6.68%	
	Don't Know	35	6.15%	
Neonatal	Yes	552	96.84%	570
	No	10	1.75%	
	Don't Know	8	1.40%	
Family Integration	Yes	451	80.11%	563
	No	49	8.70%	
	Don't Know	63	11.19%	
<b>General Management - Does this content adequately reflect what is applied to your daily practice?</b>				
Thermoregulation	Yes	529	92.97%	569
	No	22	3.87%	
	Don't Know	18	3.16%	
Resuscitation & Stabilization	Yes	548	96.14%	570
	No	9	1.58%	
	Don't Know	13	2.28%	
Nutrition	Yes	547	95.96%	570
	No	14	2.46%	
	Don't Know	9	1.58%	
Fluids and Electrolytes	Yes	548	96.14%	570
	No	12	2.11%	
	Don't Know	10	1.75%	
Pharmacology	Yes	513	90.32%	568
	No	38	6.69%	
	Don't Know	17	2.99%	
<b>The Disease Process- Does this content adequately reflect what is applied to your daily practice?</b>				
Cardiac	Yes	533	93.67%	569
	No	26	4.57%	
	Don't Know	10	1.76%	
Pulmonary	Yes	552	97.18%	568
	No	7	1.23%	
	Don't Know	9	1.58%	
Gastrointestinal	Yes	552	97.18%	568
	No	6	1.06%	
	Don't Know	10	1.76%	
Renal/Genitourinary	Yes	531	93.32%	569
	No	25	4.39%	
	Don't Know	13	2.28%	
Metabolic/Endocrine	Yes	523	91.92%	569
	No	30	5.27%	
	Don't Know	16	2.81%	
Hematopoietic	Yes	522	91.90%	568
	No	21	3.70%	
	Don't Know	25	4.40%	
Infectious Diseases	Yes	550	96.66%	
	No	10	1.76%	

<b>Exhibit 2 Neonatal Nurse Practitioner (NNP)</b>		# per answer option	% per answer option	Total per item
<b>Questions</b>	<b>Answer Options</b>			
	Don't Know	9	1.58%	569
Musculoskeletal	Yes	534	94.01%	568
	No	18	3.17%	
	Don't Know	16	2.82%	
Integumentary	Yes	532	93.50%	569
	No	16	2.81%	
	Don't Know	21	3.69%	
Genetics	Yes	519	91.05%	570
	No	29	5.09%	
	Don't Know	22	3.86%	
Neurological	Yes	546	95.79%	570
	No	13	2.28%	
	Don't Know	11	1.93%	
Ears, Eyes, Nose & Mouth/Throat	Yes	532	93.66%	568
	No	19	3.35%	
	Don't Know	17	2.99%	
Intrauterine Drug Exposure	Yes	526	93.43%	563
	No	20	3.55%	
	Don't Know	17	3.02%	
<b>Professional Issues - Does this content adequately reflect what is applied to your daily practice?</b>				
Principles of Nursing Research	Yes	425	74.56%	570
	No	94	16.49%	
	Don't Know	51	8.95%	
Legal/Ethical Issues	Yes	508	89.28%	569
	No	33	5.80%	
	Don't Know	28	4.92%	
Patient Safety	Yes	519	91.21%	569
	No	23	4.04%	
	Don't Know	27	4.75%	
<b>Demographic Information</b>				
What best describes your practice setting?	Hospital	549	96.32%	570
	Follow Up Clinic	0	0%	
	Primary Care	1	0.18%	
	Academic setting	12	2.11%	
	Administration	1	0.18%	
	Research	0	0%	
	Other	7	1.23%	
If you work in a hospital, is it designated as	Level I normal newborn care	0	0%	15
	Level II NICU	0	0%	
	Level III NICU	11	73.33%	
	Level IV NICU	4	26.67%	
	Not applicable	0	0%	
	Other (please specify)	0	0%	
Are you employed by a	Are you employed by a	3	0.53%	

<b>Exhibit 2 Neonatal Nurse Practitioner (NNP)</b>		<b># per answer option</b>	<b>% per answer option</b>	<b>Total per item</b>
<b>Questions</b>	<b>Answer Options</b>			
	Hospital	408	72.21%	565
	Government Agency	17	3.01%	
	Private company	100	17.70%	
	Other	37	6.55%	
What is your highest level of education?	Doctorate - Ph.D	13	2.28%	570
	Doctorate - DNP	29	5.09%	
	Post Master's	64	11.23%	
	Master's	397	69.65%	
	Baccalaureate	40	7.02%	
	Associate	11	1.93%	
	Diploma	9	1.58%	
	Other	7	1.23%	
What is your job title?	Staff Nurse Practitioner	14	87.50%	16
	Nurse Manager	0	0%	
	Nurse Educator	0	0%	
	Nursing Director	0	0%	
	Clinical Nurse Specialist	0	0%	
	Outreach Coordinator	0	0%	
	Patient Safety Nurse	0	0%	
	Nursing Instructor/Professor	0	0%	
	Researcher	0	0%	
	Other (Please specify)	2	12.50%	
Was your basic Neonatal Nurse Practitioner training	Certificate based	160	28.37%	564
	Graduate Degree	404	71.63%	
How many hours a week do you work as an NNP (clinical practice, education, research and Administration)?	46 hours of more	143	25.09%	570
	35-45 hours	300	52.63%	
	20-34 hours	66	11.58%	
	less than 20 hours	31	5.44%	
	Not working as an NNP at this time	26	4.56%	
	Retired	4	0.70%	
How long have you been a NNP?	Less than a year	32	5.60%	571
	1-5 years	101	17.69%	
	6-10 years	92	16.11%	
	11-15 years	72	12.61%	
	16-20 years	96	16.81%	
	Over 20 years	178	31.17%	
What state do you live in?	Alberta	2	0.35%	
	Alaska	2	0.35%	
	Alabama	15	2.61%	
	Arkansas	2	0.35%	
	Arizona	10	1.74%	
	California	17	2.96%	
	Colorado	31	5.39%	
	Connecticut	9	1.57%	
	Delaware	1	0.17%	
	Florida	30	5.22%	

<b>Exhibit 2 Neonatal Nurse Practitioner (NNP)</b>		# per answer option	% per answer option	Total per item
<b>Questions</b>	<b>Answer Options</b>			
	Georgia	18	3.13%	
	Hawaii	2	0.35%	
	Iowa	7	1.22%	
	Idaho	2	0.35%	
	Illinois	7	1.22%	
	Indiana	11	1.91%	
	Kansas	11	1.91%	
	Kentucky	9	1.57%	
	Louisiana	12	2.09%	
	Massachusetts	5	0.87%	
	Manitoba	1	0.17%	
	Maryland	19	3.30%	
	Maine	1	0.17%	
	Michigan	20	3.48%	
	Minnesota	22	3.83%	
	Missouri	12	2.09%	
	Mississippi	4	0.70%	
	North Carolina	24	4.17%	
	North Dakota	2	0.35%	
	Nebraska	5	0.87%	
	New Hampshire	2	0.35%	
	New Jersey	11	1.91%	
	Newfoundland	1	0.17%	
	New Mexico	1	0.17%	
	Nevada	1	0.17%	
	New York	21	3.65%	
	Ohio	23	4%	
	Oklahoma	11	1.91%	
	Ontario	8	1.39%	
	Oregon	9	1.57%	
	Pennsylvania	13	2.26%	
	Quebec	1	0.17%	
	Rhode Island	1	0.17%	
	South Carolina	9	1.57%	
	South Dakota	8	1.39%	
	Saskatchewan	4	0.70%	
	Tennessee	25	4.35%	
	Texas	62	10.78%	
	Utah	14	2.43%	
	Virginia	18	3.13%	
	Vermont	2	0.35%	
	Washington	6	1.04%	
	Wisconsin	9	1.57%	
	West Virginia	1	0.17%	
	Other	1	0.17%	575
Which of the following statements apply to your NCC Board Certification as a	Being NCC Board Certified is required for licensure	485	84.94%	

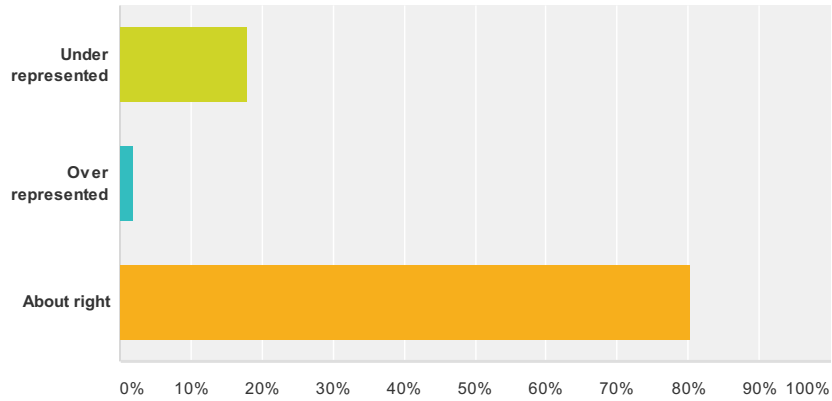
<b>Exhibit 2 Neonatal Nurse Practitioner (NNP)</b>		# per answer option	% per answer option	Total per item
<b>Questions</b>	<b>Answer Options</b>			
Neonatal Nurse Practitioner (check all that apply)	Being NCC Board Certified is required for employment	480	84.06%	571
	Being NCC Board Certified is encouraged	73	12.78%	
	Being NCC Board Certified is not required or encouraged	7	1.23%	
	There is a financial incentive tied to being NCC Board Certified	19	3.33%	
	There is no financial incentive tied to being NCC Board Certified	221	38.70%	
	My Board Certification as a NNP was attained for personal reasons.	72	12.61%	
	Being a Board Certified NNP is tied to other employer-based recognition (please specify)	13	2.28%	
Is Graduate Education required for your employment?	Yes	408	72.08%	566
	No	158	27.92%	
What is the focus of your practice:	Direct patient care	499	87.70%	569
	Education	19	3.34%	
	Management	34	5.98%	
	Research	2	0.35%	
	Unemployed	4	0.70%	
	Retired	1	0.18%	
	Othe	10	1.76%	
Percentage of practice devoted to (enter whole numbers that total 100)	Direct patient care	76.8417	5–100	556
	Education	10.6565	1–100	
	Management	10.5198	1–100	
	Research	2.69604	1–80	
Does your practice include caring for infants between 1 and 2 years.	Yes	70	12.35%	567
	No	497	87.65%	
In the last 24 months what new practice change(s) have been incorporated into your practice?	None	11	64.71%	17
	Listed below	6	35.29%	

## Exhibit 3 Neonatal Nurse Practitioner (NNP)

### 2013-2014 Neonatal Nurse Practitioner - Post Exam Feedback Survey

#### Q1 Did you think the General Assessment content tested on exam was

Answered: 56 Skipped: 1



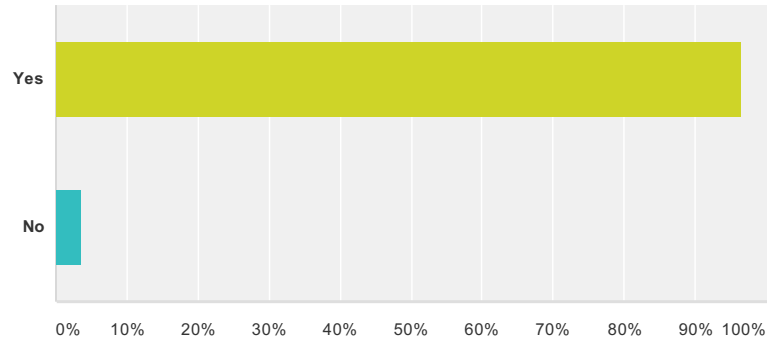
Answer Choices	Responses	
Under represented	17.86%	10
Over represented	1.79%	1
About right	80.36%	45
<b>Total</b>		<b>56</b>

## Exhibit 3 Neonatal Nurse Practitioner (NNP)

### 2013-2014 Neonatal Nurse Practitioner - Post Exam Feedback Survey

**Q2 Does this content adequately reflect what is applied to your daily practice relative to General Assessment?**

Answered: 57 Skipped: 0



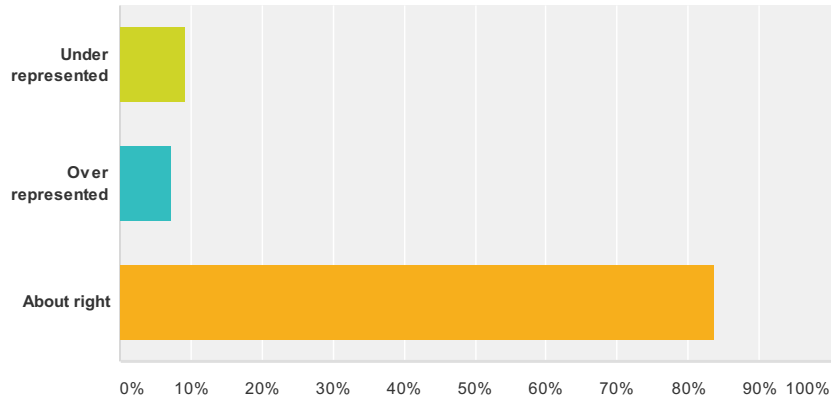
Answer Choices	Responses	
Yes	96.49%	55
No	3.51%	2
<b>Total</b>		<b>57</b>

## Exhibit 3 Neonatal Nurse Practitioner (NNP)

### 2013-2014 Neonatal Nurse Practitioner - Post Exam Feedback Survey

#### Q4 Did you think the General Management content tested on the exam was

Answered: 55 Skipped: 2



Answer Choices	Responses	Count
Under represented	9.09%	5
Over represented	7.27%	4
About right	83.64%	46
<b>Total</b>		<b>55</b>

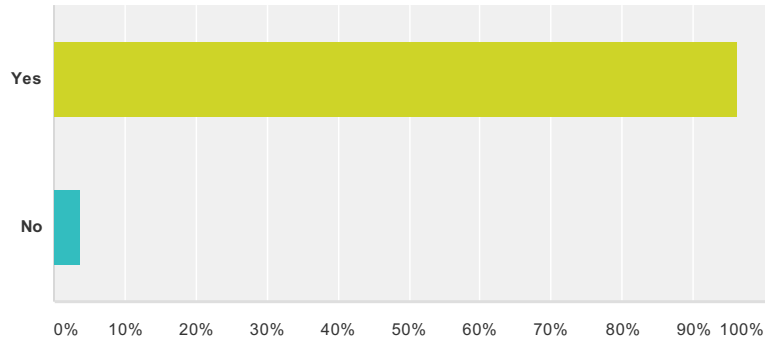


## Exhibit 3 Neonatal Nurse Practitioner (NNP)

### 2013-2014 Neonatal Nurse Practitioner - Post Exam Feedback Survey

**Q5 Does this content adequately reflect  
what is applied to daily practice relative to  
General Management?**

Answered: 53 Skipped: 4



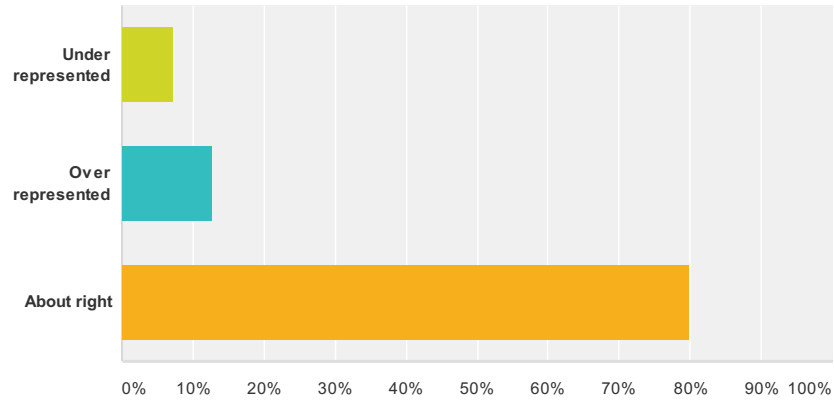
Answer Choices	Responses	
Yes	96.23%	51
No	3.77%	2
<b>Total</b>		<b>53</b>

## Exhibit 3 Neonatal Nurse Practitioner (NNP)

### 2013-2014 Neonatal Nurse Practitioner - Post Exam Feedback Survey

#### Q7 Did you think the Disease Process content tested on the exam was

Answered: 55 Skipped: 2



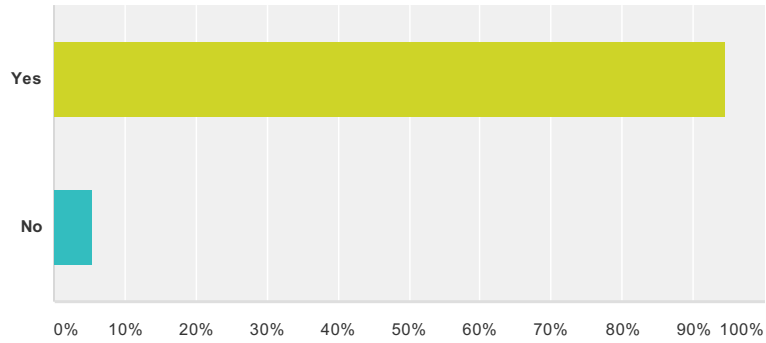
Answer Choices	Responses	Count
Under represented	7.27%	4
Over represented	12.73%	7
About right	80.00%	44
<b>Total</b>		<b>55</b>

## Exhibit 3 Neonatal Nurse Practitioner (NNP)

### 2013-2014 Neonatal Nurse Practitioner - Post Exam Feedback Survey

**Q8 Does this content adequately reflect  
what is applied to daily practice relative to  
Disease Process?**

Answered: 55 Skipped: 2



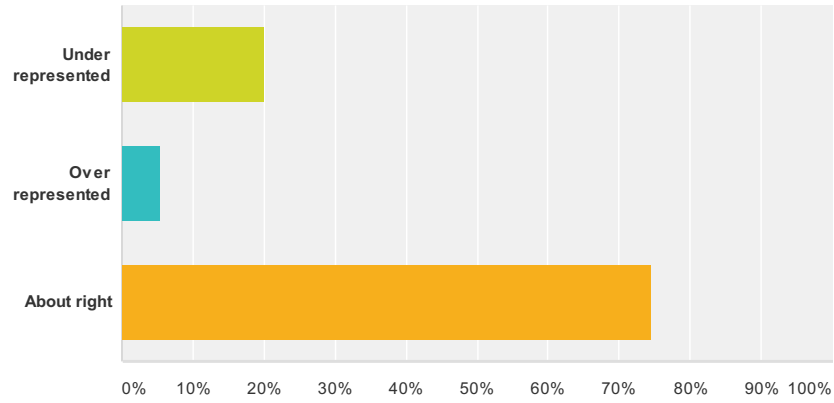
Answer Choices	Responses	
Yes	94.55%	52
No	5.45%	3
<b>Total</b>		<b>55</b>

## Exhibit 3 Neonatal Nurse Practitioner (NNP)

### 2013-2014 Neonatal Nurse Practitioner - Post Exam Feedback Survey

#### Q10 Did you think the Professional Issues content tested on the exam was

Answered: 55 Skipped: 2



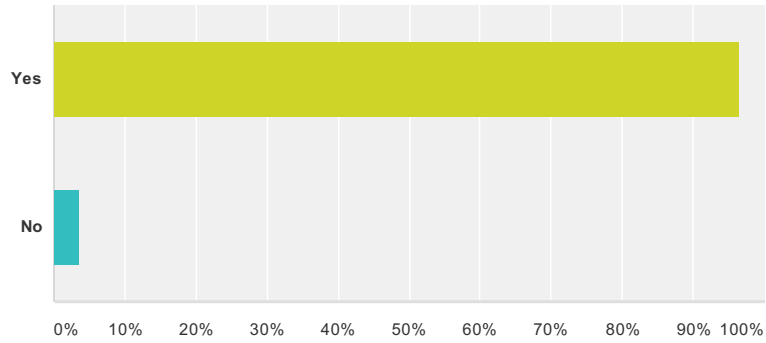
Answer Choices	Responses	
Under represented	20.00%	11
Over represented	5.45%	3
About right	74.55%	41
<b>Total</b>		<b>55</b>

## Exhibit 3 Neonatal Nurse Practitioner (NNP)

### 2013-2014 Neonatal Nurse Practitioner - Post Exam Feedback Survey

**Q11 Does this content adequately reflect what is applied to daily practice relative to Professional Issues?**

Answered: 55 Skipped: 2



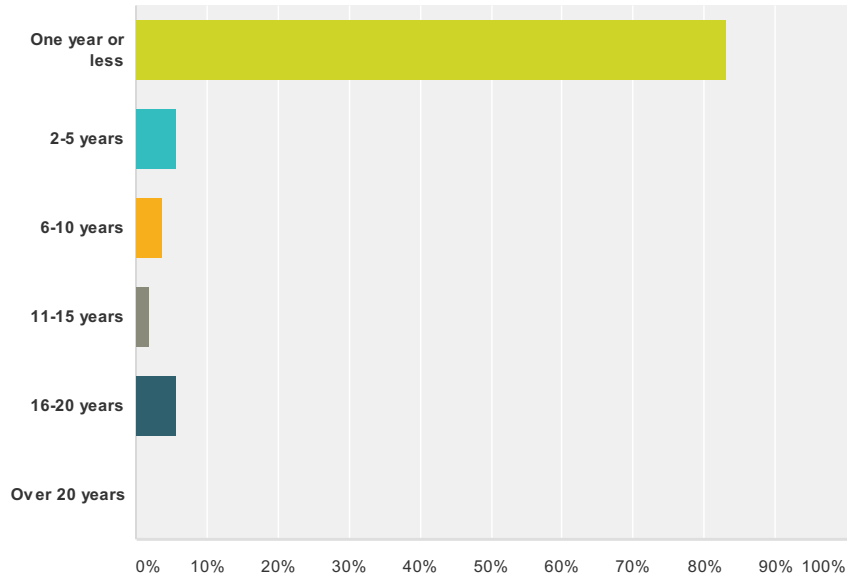
Answer Choices	Responses	
Yes	96.36%	53
No	3.64%	2
<b>Total</b>		<b>55</b>

## Exhibit 3 Neonatal Nurse Practitioner (NNP)

### 2013-2014 Neonatal Nurse Practitioner - Post Exam Feedback Survey

#### Q13 How long have you been practicing as a neonatal nurse practitioner?

Answered: 53 Skipped: 4



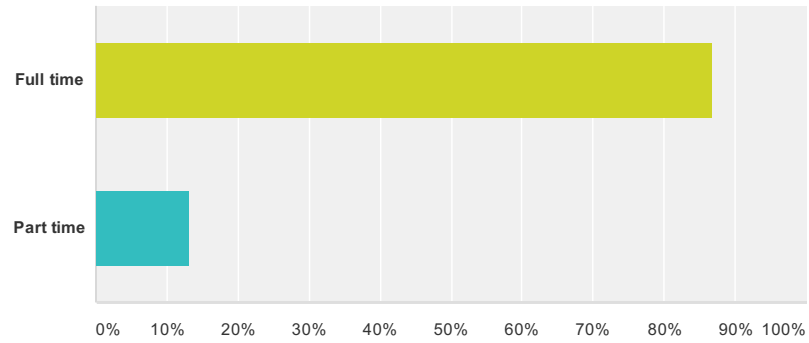
Answer Choices	Responses	Count
One year or less	83.02%	44
2-5 years	5.66%	3
6-10 years	3.77%	2
11-15 years	1.89%	1
16-20 years	5.66%	3
Over 20 years	0.00%	0
<b>Total</b>		<b>53</b>

## Exhibit 3 Neonatal Nurse Practitioner (NNP)

### 2013-2014 Neonatal Nurse Practitioner - Post Exam Feedback Survey

#### Q14 Do you work

Answered: 53 Skipped: 4



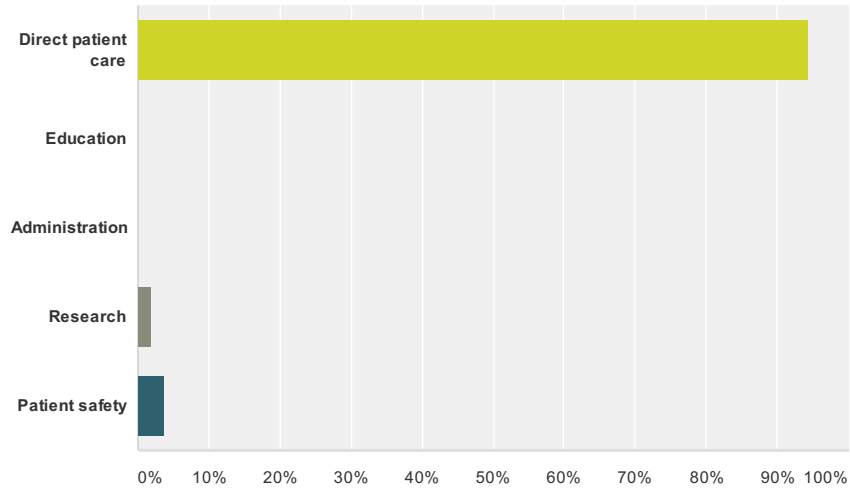
Answer Choices	Responses	
Full time	86.79%	46
Part time	13.21%	7
<b>Total</b>		<b>53</b>

## Exhibit 3 Neonatal Nurse Practitioner (NNP)

### 2013-2014 Neonatal Nurse Practitioner - Post Exam Feedback Survey

#### Q15 What is your major focus of your practice?

Answered: 53 Skipped: 4



Answer Choices	Responses	Count
Direct patient care	94.34%	50
Education	0.00%	0
Administration	0.00%	0
Research	1.89%	1
Patient safety	3.77%	2
<b>Total</b>		<b>53</b>

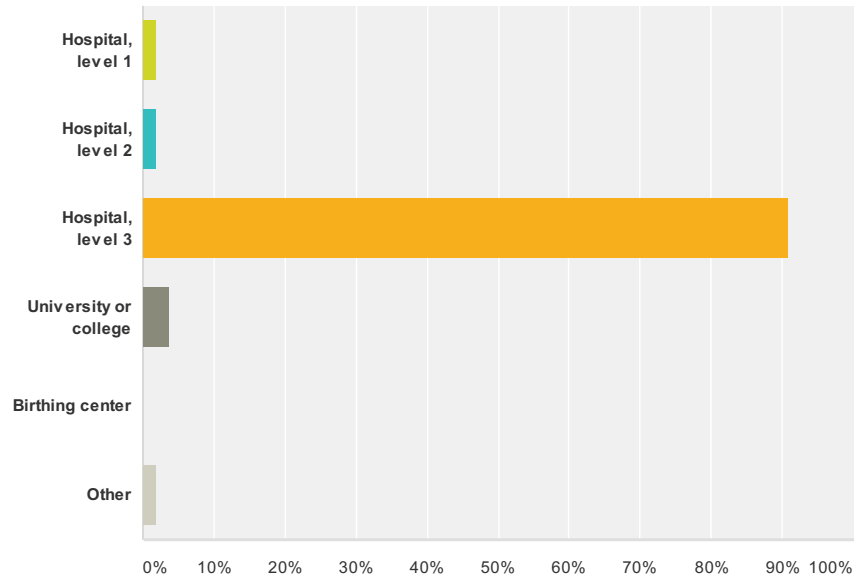


## Exhibit 3 Neonatal Nurse Practitioner (NNP)

### 2013-2014 Neonatal Nurse Practitioner - Post Exam Feedback Survey

#### Q16 Where do you work?

Answered: 54 Skipped: 3



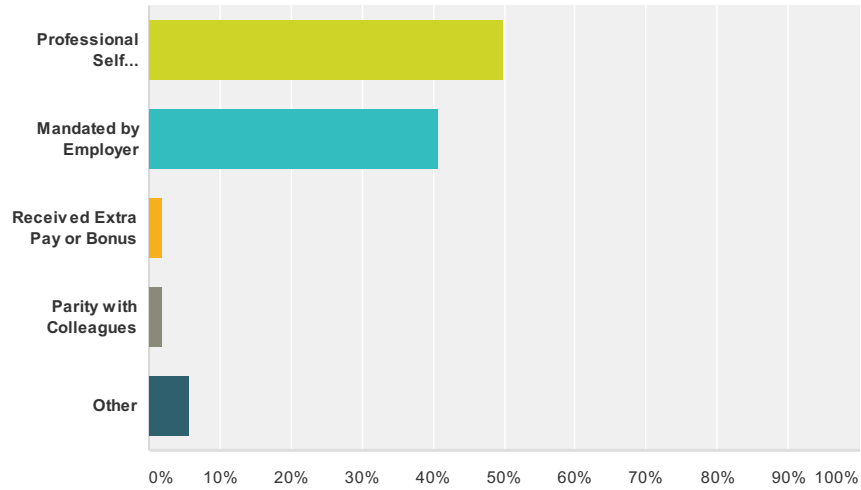
Answer Choices	Responses
Hospital, level 1	1.85% 1
Hospital, level 2	1.85% 1
Hospital, level 3	90.74% 49
University or college	3.70% 2
Birthing center	0.00% 0
Other	1.85% 1
<b>Total</b>	<b>54</b>

## Exhibit 3 Neonatal Nurse Practitioner (NNP)

### 2013-2014 Neonatal Nurse Practitioner - Post Exam Feedback Survey

#### Q17 Why did you primarily seek certification? (select one)

Answered: 54 Skipped: 3



Answer Choices	Responses	Count
Professional Self Development	50.00%	27
Mandated by Employer	40.74%	22
Received Extra Pay or Bonus	1.85%	1
Parity with Colleagues	1.85%	1
Other	5.56%	3
<b>Total</b>		<b>54</b>