



2009 NCC Content Validation Task Analysis Study

Maternal Newborn Nursing Examination

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1. Background and Overview

The purpose of the content validation/task analysis study is to describe the domain of practice, knowledge, skills and abilities that are essential to the maternal newborn nurse.

The application of the data collected is used to identify test content to be included in the NCC certification examination to insure the examinations are reflective of current practice, skills and knowledge.

The focus of the NCC certification is to demonstrate the special knowledge of the maternal newborn nurse.

NCC content team members, a geographically diverse group representing both academic and clinical practice venues, were charged with development of the tasks as associated with existent test outlines.

2. Development process

With psychometric consultation, the tasks/skills/interventions identified by the content team were formulated into a survey instrument. The domains for query centered on the following:

- Demographics and Practice Characteristics of certified maternal newborn nurses
- Frequency and Criticality of Patient Care
- Skills

a. The following documents were reviewed:

- Standards for Professional Nursing Practice in the Care of Women and Newborns AWHONN
- Scope and Standards of Advanced Practice Registered Nurses, American Nurses' Association (ANA)
- Neonatal Nursing: Clinical Competencies and Educational Guide, AWHONN
- Pertinent literature review

b. Review of current NCC competency statements and general and detailed test outlines for the maternal newborn nursing examination.

c. Identification of Essential Knowledge, Skills and Abilities

The Maternal Newborn Nursing Content Team developed the survey based on the document review of identified competencies and practice skills of the maternal newborn nurse. General discussion on how current competency statements and content included in the test outline related to the professional literature was also initiated. The content team then prioritized the list of tasks/skills.

3. Data Collection

The Zoomerang software was used for survey deployment and aggregate data compilation from survey responses. All NCC certified maternal newborn nurses who held a valid email address (4,260) were notified via email contact and a general invitation to participate was posted on the NCC website. 218 participated or 5%.

Detailed summary results are shown later in this report.



2009 Maternal Newborn Nursing Content Validation/Task Analysis Study Survey Map

Instructions to Participants

We need your input to insure that the NCC Maternal Newborn Nurse examination is reflective of current practice. This survey relates to the type of patients you deal with, disposition of care and the nature and frequency of the conditions you manage. The data from this survey will assist the NCC Maternal Newborn Nursing Content Team to make revisions to the content outline from which questions are derived for assessment of special knowledge as a maternal newborn nurse on the NCC certification examination. It should take 20 minutes to complete the survey.

The questions on the survey are categorized according to the identified domains above. The following lists only the questions. To review the answer options, refer to Survey Results.

Demographics and Practice Characteristics of Certified Maternal newborn Nurse

- What best describes your practice setting?
- If you work for a hospital, is it designated as Level 1, Level 2 or Level 3?
- If employed by a hospital what is your unit orientation?
- What is your job title?
- What is your highest level of education?
- How many hours do you work a week as a maternal newborn nurse?
- How long have you held a position in the maternal newborn nursing specialty?
- Where do you live?
- Is NCC certification required for your employment as a maternal newborn nurse?
- How would you best describe the focus of your position - direct patient, administrative, educational or other?
- Based on your practice, indicate on a rating scale of 1 to 5 the amount of time you spend each week in management of the following patient populations (antepartum, postpartum family, normal newborn and home care) with 1 representing the patients you spent the most time with, 2 representing the next group and so on. You should use each number only once. Check box 6 if you don't provide care for this category
- For each of the general test content categories, an assigned percentage of questions on the maternal newborn nursing exam is noted. Based on your practice and experience, do these percentages appropriately represent the knowledge needed for maternal newborn nurses to function in the current health care environment? If no, please indicate if you would increase, decrease or keep the percentage of questions the same for each major content area of the test.

Frequency and Criticality of Patient Care

- In reviewing the following practice knowledge competencies regarding **Factors Affecting Maternal/Neonatal Outcomes**, please indicate their criticality to maternal newborn nursing practice with #1 being the most important and #5 not being important at all. Criticality means it is an expected competency that a maternal newborn nurse should possess no matter the educational background, practice setting, patient population focus or years of experience.
- In reviewing the following practice knowledge competencies regarding **Maternal Assessment and Management in the Postpartum Period**, please indicate their criticality to maternal newborn nursing practice with #1 being the most important and #5 not being important at all. Criticality means it is an expected competency that a maternal newborn nurse should possess no matter the educational background, practice setting, patient population focus or years of experience.
- In reviewing the following practice knowledge competencies regarding **Newborn Assessment and Management**, please indicate their criticality to maternal newborn nursing practice with #1 being the most important and #5 not being important at all. Criticality means it is an expected competency that a maternal newborn nurse should possess no matter the educational background, practice setting, patient population focus or years of experience.
- In reviewing the following practice knowledge competencies regarding **Aspects of Professional Practice**, please indicate their criticality to maternal newborn nursing practice with #1 being the most important and #5 not being important at all. Criticality means it is an expected competency that a maternal newborn nurse should possess no matter the educational background, practice setting, patient population focus or years of experience.
- Please indicate the time frequency on average you manage pregnant or postpartum women who required the following **Antenatal Assessment Tests** with #1 being every day and #5 being rarely or never.
- Please indicate the time frequency on average you manage postpartum women who were affected by the following **Intrapartal Factors in Labor and Delivery** with #1 being every day and #5 being rarely or never.
- Please indicate the time frequency on average you manage postpartum women who were affected by the following **Antepartal Factors During Pregnancy** with #1 being every day and #5 being rarely or never.
- Please indicate the time frequency on average you manage postpartum women in regarding to the problems, issues or condition affecting **Neonatal Conditions** with #1 being every day and #5 being rarely or never.
- Please indicate the time frequency on average you manage postpartum women in regarding to the problems, issues or condition affecting **Lactation and Newborn Feeding** with #1 being every day and #5 being rarely or never.

- Please indicate the time frequency on average you manage postpartum women in regarding to the problems, issues or condition affecting **Postpartum Assessment and Management** with #1 being every day and #5 being rarely or never.
- Please indicate the time frequency on average you perform, order, interpret or use results from the following **Laboratory Tests and Diagnostic Studies** with #1 being every day and #5 being rarely or never.
- Please indicate the time frequency on average you manage **postpartum women** who are receiving any of the following **medications** with #1 being every day and #5 being rarely or never.
- Please indicate the time frequency on average you manage **neonates** who are receiving any of the following **medications** with #1 being every day and #5 being rarely or never.

Skills

Of the skills or assessments noted how often do you perform with #1 being every day and #5 being rarely or never.

Questions of Interest

- How do you keep up with the new practice information (Check all that apply)
- Please describe any perinatal safety initiatives (if any) your institution has sponsored or if Magnet status has been achieved within the last three years?
- List the content topic of the last continuing educational activity in which you participated.
- Is there any issue or practice competency that you manage in your practice that was not mentioned in the survey?
- In the last year, please describe any new procedure, drug or information that you have incorporated into your practice.

599 responses and the top 10 responses were

Late Preterm Initiative • Adoption of Baby Friendly Hospital • Cytotec for postpartum hemorrhage • Transcutaneous bilirubin screening • Laboring down for 2nd stage of labor • Revamping of oxytocin protocols guidelines • Use of fetal fibronectin testing • Rapid GBS testing • Use of electronic records

2009 Maternal Newborn
Nursing Content Validation
Study/Task Analysis
Test Results

1. What best describes your practice setting?

Hospital	190	87%
Physician's office	2	1%
Clinic (hospital or freestanding)	4	2%
Triage unit	1	0%
Home care	2	1%
Academic setting	8	4%
Education (not an academic institution)	4	2%
Administration	1	0%
Research	0	0%
Other, please specify	6	3%
Total	218	100%

2. If employed by a hospital, it is designated as

Level 1	25	12%
Level 2	68	32%
Level 3	91	43%
Not applicable	26	12%
Other, please specify	4	2%
Total	214	100%

3. If you work in a hospital, what is your unit orientation?		
Traditional separate L&D and postpartum	72	35%
LDR	13	6%
LDRP	21	10%
Antepartum Unit	5	2%
Mother Baby Unit	70	34%
Other, please specify	25	12%
Total	206	100%

4. What is your job title? (Choose the best response).		
Staff Nurse	143	67%
Nurse Manager	16	7%
Nurse Educator	19	9%
Nursing Director	4	2%
Clinical Nurse Specialist	2	1%
Outreach Coordinator	0	0%
Nursing Instructor/Professor	7	3%
Other, please specify	24	11%
Total	215	100%

5. What is your highest level of education?		
Doctorate - PhD	2	1%
Doctorate - DNP	0	0%
Post Master's	1	0%
Master's	35	16%
Baccalaureate	104	48%
Associate	51	23%
Diploma	23	11%
Other, please specify	2	1%
Total	218	100%

6. How many hours do you work a week? Work is defined as clinical practice, education, research or administration.

35 hours or more	150	69%
20-34 hours	56	26%
Less than 20 hours	7	3%
Not working right now	2	1%
Retired	1	0%
Other, please specify	2	1%
Total	218	100%

7. How long have you held a position in the maternal newborn nursing specialty?

Less than a year	0	0%
1-5 years	17	8%
6-10 years	26	12%
11-15 years	37	17%
16-20 years	46	21%
Over 20 years	92	42%
Total	218	100%

8. Where do you live (applies to the U.S unless otherwise noted)?

North	21	10%
South	56	26%
East	49	22%
West	46	21%
Midwest	44	20%
Outside the U.S.	2	1%
Total	218	100%

9. Is NCC maternal newborn nursing certification required for your employment?		
Yes	13	6%
No	204	94%
Not applicable	0	0%
Total	217	100%

10. How would you best describe the focus of your position? (Select the one that is most representative of your position).		
Direct patient care	162	75%
Administrative or managerial	25	12%
Education	28	13%
Research	0	0%
Other, please specify	2	1%
Total	217	100%

11. Based on your practice, indicate on a rating scale of 1 to 5 the amount of time you spend each week in management of the following patient populations with 1 representing the patients you spent the most time with, 2 representing the next group and so on. You should use each number only once. Check box 6 if you don't provide care for this category of patients or venue.					
Top number is the count of respondents selecting the option. Bottom % is percent of the total respondents selecting the option.	1	2	3	4	5
Antepartum patients	31 15%	20 10%	36 17%	22 10%	25 12%
Postpartum patients	115 54%	35 16%	22 10%	4 2%	22 10%
Newborns	80 38%	65 31%	23 11%	22 10%	14 7%
Family	45 22%	28 13%	61 29%	39 19%	14 7%
Home Care	7 3%	2 1%	2 1%	10 5%	16 8%

12. The test content percentages below represent the number of questions on the maternal newborn nursing exam. Based on your experience, do these percentages adequately represent the knowledge needed for maternal newborn nurses to function in today's health care environment? A link to the general content outline providing more content detail can be accessed at the provided link.

Factors Affecting Maternal/Neonatal Outcomes - 5-10%
 Maternal Assessment & Management in the Postpartum Period 40-45%
 Newborn Assessment & Management - 40-45%
 Aspects of Professional Practice < 5%

Yes	197	91%
No	19	9%
Total	216	100%

13. If you answered no to the previous question about the content outline, please indicate if you would increase, decrease or keep the percentage of questions in each major content area on the exam. If you answered yes, go to the next question.

Top number is the count of respondents selecting the option. Bottom % is percent of the total respondents selecting the option.	Increase	Decrease	Keep the same
Factors Affecting Maternal/Neonatal Outcomes - 5-10%	22 56%	2 5%	15 38%
Maternal Assessment & Management in the Postpartum Period - 40-45%	9 24%	6 16%	23 61%
Newborn Assessment & Management - 40-45%	6 15%	13 32%	21 52%
Aspects of Professional Practice < 5%	6 17%	6 17%	24 67%

14. In reviewing the following practice knowledge competencies regarding Factors Affecting Maternal/Neonatal Outcomes, please indicate their criticality to maternal newborn nursing practice with #1 being the most important and #5 not being important at all. Criticality means it is an expected competency that a maternal newborn nurse should possess no matter the educational background, practice setting, patient population focus or years of experience

Top number is the count of respondents selecting the option. Bottom % is percent of the total respondents selecting the option.	Very Important	Important	Neutral	Some Importance	No Importance
Antenatal Factors	116 54%	82 38%	5 2%	9 4%	2 1%
Intrapartal Factors	131 61%	67 31%	8 4%	7 3%	2 1%

15. In reviewing the following practice knowledge competencies regarding Maternal Assessment and Management in the Postpartum Period, please indicate their criticality to maternal newborn nursing practice with #1 being the most important and #5 not being important at all. Criticality means it is an expected competency that a maternal newborn nurse should possess no matter the educational background, practice setting, patient population focus or years of experience

Top number is the count of respondents selecting the option. Bottom % is percent of the total respondents selecting the option.	Very Important	Important	Neutral	Some importance	No importance
Physiologic Changes & Physical Assessment	169 78%	41 19%	3 1%	3 1%	0 0%
Nursing Care and Education	138 64%	58 27%	13 6%	6 3%	2 1%
Lactation and Newborn Feeding	131 60%	70 32%	7 3%	8 4%	1 0%
Family Dynamics after Childbirth	60 28%	105 49%	30 14%	10 5%	10 5%
Complications	160 75%	41 19%	7 3%	4 2%	1 0%

16. In reviewing the following practice knowledge competencies regarding Newborn Assessment & Management, please indicate their criticality to maternal newborn nursing practice with #1 being the most important and #5 not being important at all. Criticality means it is an expected competency that a maternal newborn nurse should possess no matter the educational background, practice setting, patient population focus or years of experience.

Top number is the count of respondents selecting the option. Bottom % is percent of the total respondents selecting the option.	Very Important	Important	Neutral	Some Importance	No Importance
Transition to Extrauterine Life	169 79%	38 18%	5 2%	2 1%	0 0%
Physiologic Changes and Physical Assessment	177 82%	32 15%	7 3%	0 0%	0 0%
Nursing Care and Family Education	113 52%	84 39%	11 5%	7 3%	1 0%
Complications	165 77%	38 18%	7 3%	4 2%	0 0%

17. In reviewing the following practice knowledge competencies regarding Aspects of Professional Practice, please indicate their criticality to maternal newborn nursing practice with #1 being the most important and #5 not being important at all. Criticality means it is an expected competency that a maternal newborn nurse should possess no matter the educational background, practice setting, patient population focus or years of experience

Top number is the count of respondents selecting the option. Bottom % is percent of the total respondents selecting the option.	Very Important	Important	Neutral	Some Importance	No importance
Research	30 14%	88 41%	54 25%	35 16%	7 3%
Guidelines for Practice	108 51%	84 39%	10 5%	10 5%	1 0%
Ethical/Legal Issues	84 39%	96 45%	23 11%	11 5%	0 0%
Patient Safety	175 82%	30 14%	6 3%	2 1%	1 0%
Culturally Sensitive Care	73 35%	105 50%	21 10%	11 5%	1 0%

18. Listed below are a variety of Antenatal Fetal Assessment tests. Please indicate the time frequency on average you manage pregnant or postpartum women who require or underwent such fetal testing with #1 being every day and #5 being rarely or never. (Select the option closest to your experience)

Top number is the count of respondents selecting the option. Bottom % is percent of the total respondents selecting the option.	Every day	Every week	Every month	Within the last year	Rarely or never
Alphafetoprotein screening	41 19%	39 18%	26 12%	35 16%	74 34%
Amniocentesis	8 4%	24 11%	62 29%	52 24%	67 31%
Biophysical profile	38 18%	67 31%	43 20%	26 12%	41 19%
Diagnostic ultrasound	76 36%	47 22%	26 12%	21 10%	43 20%
Lung maturation studies	10 5%	29 13%	69 32%	44 20%	63 29%
Nonstress testing	92 43%	55 26%	19 9%	14 7%	35 16%
Triple or quad screening	30 14%	26 12%	35 17%	35 17%	86 41%

19. Listed below are a variety of Intrapartal Factors that affect maternal and neonatal outcomes. Please indicate the time frequency on average you manage postpartum women who are affected by these intrapartal factors in labor and delivery with #1 being every day and #5 being rarely or never. (Select the option closest to your experience)

Top number is the count of respondents selecting the option. Bottom % is percent of the total respondents selecting the option.	Every day	Every week	Every month	Within the last year	Rarely or never
Abnormal cord gases	15 7%	47 22%	57 27%	45 21%	51 24%
Abnormal FHR patterns	68 32%	79 37%	38 18%	8 4%	21 10%
Breech or other malpresentations	47 22%	88 41%	49 23%	14 7%	16 7%
Cesarean delivery	147 69%	47 22%	4 2%	5 2%	11 5%
Cord prolapse	5 2%	12 6%	44 21%	114 53%	39 18%
Infection	23 11%	58 27%	71 33%	49 23%	13 6%
Meconium stained fluid	49 23%	96 45%	47 22%	7 3%	14 7%
Placental abruption	4 2%	19 9%	69 32%	98 46%	25 12%
Placental previa	2 1%	29 14%	72 34%	85 40%	24 11%
Precipitous delivery	19 9%	49 23%	92 43%	37 17%	16 8%
Prolonged labor	32 15%	81 39%	64 30%	15 7%	18 9%
Shoulder dystocia	5 2%	41 19%	84 39%	65 30%	19 9%
Use of anesthesia	153 72%	35 16%	9 4%	4 2%	12 6%
Use of oxytocics	151 72%	35 17%	9 4%	3 1%	12 6%
Use of tocolytics	83 39%	49 23%	48 22%	15 7%	19 9%
VBAC	18 8%	46 22%	69 32%	43 20%	37 17%

20. Listed below are a variety of Antepartal Factors that affect maternal and neonatal outcomes. Please indicate the time frequency on average you manage postpartum women who are affected by these antenatal factors in labor and delivery with #1 being every day and #5 being rarely or never. (Select the option closest to your experience.)

Top number is the count of respondents selecting the option. Bottom % is percent of the total respondents selecting the option.	Every Day	Every Week	Every Month	Within the last year	Rarely or Never
Amniotic fluid disorders	6 3%	34 16%	50 23%	80 37%	44 21%
Bacterial or viral infections	20 9%	46 22%	71 33%	60 28%	16 8%
Cardiac disease	3 1%	9 4%	41 19%	109 51%	52 24%
Diabetes	32 15%	71 33%	89 42%	12 6%	9 4%
Hematologic disorders	4 2%	22 10%	75 35%	83 39%	31 14%
Hypertension (gestational or chronic)	68 32%	89 42%	40 19%	9 4%	8 4%
Intrauterine growth restriction	17 8%	60 28%	89 42%	39 18%	8 4%
Multiple gestation	16 8%	46 22%	87 41%	52 25%	10 5%
Premature rupture of membranes	36 17%	67 31%	87 41%	16 7%	8 4%
Postterm pregnancy	32 15%	57 27%	77 36%	34 16%	13 6%
Preterm labor	46 21%	95 44%	52 24%	13 6%	8 4%
Substance abuse	22 10%	64 30%	64 30%	46 21%	18 8%

21. Listed below are a variety of Neonatal Conditions. Please indicate the time frequency on average you manage neonates with any or all the conditions with #1 being every day and #5 being rarely or never. (Select the option closest to your experience).

Top number is the count of respondents selecting the option. Bottom % is percent of the total respondents selecting the option.	Every day	Every week	Every month	Within the last year	Rarely or never
Anemia	2 1%	8 4%	42 20%	83 39%	79 37%
Apnea	7 3%	33 15%	68 32%	79 37%	28 13%
Bacterial infections	8 4%	29 14%	60 28%	90 42%	25 12%
Benign skin disorders	14 7%	27 13%	47 22%	68 32%	59 27%
Birth injuries	1 0%	20 9%	51 24%	102 48%	38 18%
Caput succedaneum	48 22%	58 27%	63 29%	31 14%	14 7%
Cardiac disease and anomalies	1 0%	18 8%	50 24%	97 46%	46 22%
Cephalohematoma	21 10%	56 26%	72 34%	50 24%	13 6%
Congenital hip dislocation/dysplasia	0 0%	13 6%	42 20%	102 48%	57 27%
Craniotabes	1 0%	3 1%	9 4%	44 21%	150 72%
Drug exposed infant	18 8%	37 17%	69 32%	67 31%	23 11%
Electrolyte imbalance	0 0%	8 4%	32 15%	91 43%	82 38%
Genetic defects	1 0%	9 4%	36 17%	131 61%	37 17%
GI anomalies	0 0%	6 3%	17 8%	110 52%	80 38%
GI obstructions	0 0%	2 1%	10 5%	91 43%	110 52%
Hyperbilirubinemia	63 30%	78 37%	48 23%	17 8%	6 3%
Hypoglycemia	54 25%	79 37%	60 28%	13 6%	7 3%

Infant of diabetic mother	64 30%	76 36%	57 27%	8 4%	7 3%
Intracranial hemorrhage	1 0%	2 1%	10 5%	67 32%	131 62%
Jitteriness	36 17%	57 27%	82 38%	27 13%	12 6%
Meconium aspiration	7 3%	22 10%	73 35%	72 34%	36 17%
Neural tube defects	0 0%	0 0%	8 4%	67 32%	137 65%
Pneumothorax	1 0%	1 0%	17 8%	92 44%	97 47%
Polycythemia/hyperviscosity	0 0%	7 3%	23 11%	84 40%	97 46%
Rh disease	6 3%	10 5%	29 14%	56 26%	113 53%
Seizures	0 0%	0 0%	20 9%	85 40%	107 50%
Sepsis	4 2%	25 12%	51 24%	84 39%	50 23%
STD infections	1 0%	14 7%	33 16%	66 31%	97 46%
Thrombocytopenia	1 0%	3 1%	28 13%	84 40%	94 45%
Transient tachypnea of the newborn	32 15%	82 38%	62 29%	30 14%	7 3%
Viral infections	1 0%	10 5%	45 21%	80 37%	79 37%
Vitamin K deficiency	5 2%	1 0%	3 1%	28 13%	175 83%

22. Listed below are a variety of issues related to Lactation and Newborn Feeding. Please indicate the time frequency on average you manage postpartum women with any or all the conditions with #1 being every day and #5 being rarely or never. (Select the option closest to your experience).

Top number is the count of respondents selecting the option. Bottom % is percent of the total respondents selecting the option.	Every Day	Every Week	Every Month	Within the Last Year	Rarely or Never
Breast engorgement	34 16%	78 36%	48 22%	35 16%	20 9%
Infections	11 5%	19 9%	50 23%	83 39%	51 24%
Insufficient milk supply	23 11%	37 17%	61 29%	65 30%	28 13%
Latch on problems	129 60%	55 26%	20 9%	3 1%	7 3%
Mastitis	2 1%	11 5%	37 17%	84 39%	80 37%
Maternal newborn separation	51 24%	53 25%	50 23%	31 14%	30 14%
Multiple birth	20 9%	43 20%	87 40%	54 25%	11 5%
Nipple trauma	45 21%	72 33%	47 22%	26 12%	25 12%
Perinatal substance abuse effects on breastfeeding	14 7%	31 14%	48 22%	70 33%	51 24%
Plugged duct	1 0%	16 7%	39 18%	83 39%	75 35%

23. Listed below are a variety of issues related to Postpartum Assessment & Management. Please indicate the time frequency on average you manage postpartum women with any or all the conditions with #1 being every day and #5 being rarely or never. (Select the option closest to your experience).

Top number is the count of respondents selecting the option. Bottom % is percent of the total respondents selecting the option.	Every day	Every week	Every month	Within the last year	Rarely or never
Afterpains	169 79%	24 11%	9 4%	2 1%	11 5%
Anemia	57 27%	80 37%	49 23%	16 7%	13 6%
Bladder distention	30 14%	79 37%	59 28%	32 15%	13 6%
Constipation	36 17%	66 31%	62 29%	28 13%	21 10%
Diabetes	48 22%	69 32%	68 32%	16 7%	14 7%
DIC	1 0%	4 2%	20 9%	90 42%	100 47%
Fatigue	126 59%	45 21%	21 10%	8 4%	14 7%
HELLP syndrome	1 0%	13 6%	60 28%	105 49%	34 16%
Hematoma	3 1%	13 6%	54 25%	108 51%	35 16%
Hemorrhoids	58 27%	76 35%	56 26%	12 6%	13 6%
Hypertension	50 24%	92 44%	51 24%	7 3%	11 5%
Multiple birth	16 7%	43 20%	88 41%	53 25%	15 7%
Perineal edema	95 45%	70 33%	29 14%	8 4%	11 5%
Postpartum blues	22 10%	57 27%	79 37%	34 16%	19 9%
Postpartum depression	2 1%	20 9%	54 26%	83 39%	52 25%

Postpartum hemorrhage	6 3%	30 14%	92 43%	68 32%	16 8%
Rh sensitization	8 4%	26 12%	31 15%	65 31%	81 38%
Sleep disturbances	57 27%	40 19%	52 25%	28 13%	34 16%
Thrombophlebitis	0 0%	5 2%	27 13%	100 47%	79 37%
Urinary retention	13 6%	50 24%	80 38%	44 21%	24 11%
Vaginal infections	2 1%	10 5%	42 20%	93 44%	66 31%
Wound infections	0 0%	11 5%	38 18%	102 48%	61 29%

24. Listed below are a variety of Laboratory Tests or Diagnostic Studies. Please indicate the time frequency on average you manage patients requiring these evaluations with #1 being every day and #5 being rarely or never. (Select the option closest to your experience).

Top number is the count of respondents selecting the option. Bottom % is percent of the total respondents selecting the option.	Every Day	Every Week	Every Month	Within the last year	Rarely or never
Maternal Apt test	4 2%	7 3%	16 8%	49 24%	132 63%
Maternal Betke Kleihauer	6 3%	15 7%	32 15%	96 45%	63 30%
Maternal CBC	157 73%	34 16%	3 1%	10 5%	11 5%
Maternal coagulation studies	30 14%	62 29%	60 28%	41 19%	18 9%
Maternal Coombs testing	61 28%	32 15%	29 13%	43 20%	50 23%
Maternal Pap smear	15 7%	7 3%	10 5%	42 20%	139 65%
Maternal Rh typing	140 66%	37 17%	11 5%	12 6%	13 6%
Maternal serum glucose levels	58 27%	66 31%	51 24%	23 11%	15 7%
Maternal urinalysis	70 33%	54 25%	55 26%	22 10%	13 6%
Maternal vaginal cultures	30 14%	43 20%	48 23%	49 23%	42 20%
Maternal viral studies	17 8%	21 10%	47 22%	64 30%	65 30%
Maternal white count	120 57%	45 21%	22 10%	13 6%	11 5%
Newborn bilirubin levels	153 72%	33 16%	8 4%	9 4%	9 4%
Newborn calcium levels	2 1%	18 8%	48 22%	65 30%	81 38%
Newborn CBC	71 33%	76 36%	35 16%	16 7%	16 7%

Newborn Coombs testing	118 55%	56 26%	16 7%	12 6%	13 6%
Newborn electrolyte levels	12 6%	29 14%	61 29%	62 29%	49 23%
Newborn hematocrit	57 27%	71 33%	37 17%	27 13%	21 10%
Newborn hemoglobin	58 27%	71 33%	37 17%	27 13%	20 9%
Newborn platelet count	41 19%	70 33%	44 21%	33 16%	23 11%
Newborn screening	158 76%	22 11%	8 4%	9 4%	11 5%
Newborn serum glucose levels	118 56%	49 23%	23 11%	12 6%	10 5%
Newborn stool culture	2 1%	7 3%	33 16%	65 31%	103 49%
Newborn T4 assay	7 3%	5 2%	22 10%	60 28%	120 56%
Newborn urine culture	3 1%	7 3%	33 16%	73 35%	93 44%
Newborn white count with differential	63 29%	60 28%	39 18%	27 13%	25 12%

25. Listed below are a variety of medications. Please indicate the time frequency on average you manage postpartum women receiving these medications with #1 being every day and #5 being rarely or never. (Select the option closest to your experience).

Top number is the count of respondents selecting the option. Bottom % is percent of the total respondents selecting the option.	Every Day	Every Week	Every Month	Within the last year	Rarely or Never	N/A
Analgesia/narcotics	186 87%	12 6%	2 1%	4 2%	3 1%	7 3%
Antacids/GI motility drugs	118 55%	50 23%	21 10%	12 6%	6 3%	8 4%
Anticoagulants	11 5%	17 8%	70 33%	66 31%	38 18%	13 6%
Anticonvulsants	2 1%	8 4%	32 15%	102 48%	59 28%	11 5%
Antihypertensive drugs	38 18%	61 29%	74 35%	25 12%	6 3%	8 4%
Antimicrobials	32 15%	59 28%	56 26%	32 15%	26 12%	9 4%
Diuretics	3 1%	10 5%	36 17%	82 38%	71 33%	13 6%
Magnesium sulfate	23 11%	49 23%	61 29%	38 18%	29 14%	14 7%
Sedatives/hypnotics	34 16%	64 30%	37 18%	36 17%	31 15%	9 4%

26. Listed below are a variety of medications. Please indicate the time frequency on average you manage newborns receiving these medications with #1 being every day and #5 being rarely or never. (Select the option closest to your experience).

Top number is the count of respondents selecting the option. Bottom % is percent of the total respondents selecting the option.	Every day	Every week	Every month	Within the last year	Rarely or Never
Analgesia/narcotics	45 21%	24 11%	10 5%	40 19%	95 44%
Antacids/GI motility drugs	14 7%	14 7%	13 6%	27 13%	146 68%
Anticoagulants	3 1%	3 1%	11 5%	23 11%	172 81%
Anticonvulsants	1 0%	2 1%	9 4%	40 19%	161 76%
Antidysrhythmic drugs	1 0%	1 0%	4 2%	32 15%	175 82%
Antihypertensive drugs	5 2%	7 3%	12 6%	16 7%	174 81%
Antimicrobials	11 5%	21 10%	42 20%	35 16%	105 49%
Bronchodilators	0 0%	6 3%	23 11%	22 10%	162 76%
Diuretics	0 0%	2 1%	10 5%	25 12%	173 82%
Respiratory stimulants	0 0%	5 2%	12 6%	44 21%	151 71%
Resuscitation drugs	0 0%	5 2%	18 8%	70 33%	120 56%
Sedatives/hypnotics	3 1%	6 3%	10 5%	24 11%	169 80%
Steroids	2 1%	6 3%	20 9%	32 15%	152 72%
Surfactant replacement therapy	5 2%	6 3%	22 10%	38 18%	141 67%
Vaccinations	150 70%	31 14%	4 2%	10 5%	19 9%
Vitamins	77 36%	18 8%	9 4%	23 11%	85 40%

27. Of the skills or assessments listed below, how often do you perform them with #1 being every day and #5 being rarely or never? (Select the option that is closest to your experience).

Top number is the count of respondents selecting the option. Bottom % is percent of the total respondents selecting the option.	Every Day	Every Week	Every Month	Within the last year	Rarely or Never
Administer pain medication	183 86%	8 4%	4 2%	6 3%	13 6%
Auscultate maternal bowel sounds	171 80%	12 6%	4 2%	10 5%	16 8%
Counsel siblings	30 14%	41 19%	34 16%	41 19%	66 31%
Educate about expressing breast milk	134 63%	47 22%	16 7%	12 6%	5 2%
Educate on anticipated maternal physiologic changes	161 75%	38 18%	6 3%	5 2%	4 2%
Educate on breast care	175 82%	25 12%	7 3%	3 1%	3 1%
Educate on breastfeeding technique and timing	176 82%	27 13%	5 2%	3 1%	3 1%
Educate on contraception options	60 28%	42 20%	32 15%	31 15%	48 23%
Educate on contraindications to breastfeeding	79 38%	51 24%	43 21%	25 12%	11 5%
Educate on lactation physiology	121 57%	44 21%	27 13%	15 7%	6 3%
Educate on nutritional requirements	136 65%	45 22%	16 8%	8 4%	3 1%
Educate on benefits of breastfeeding	161 76%	40 19%	2 1%	5 2%	3 1%
Educate on postpartum exercise	93 44%	49 23%	23 11%	28 13%	19 9%
Educate on resumption of sexual activity	112 53%	48 23%	21 10%	11 5%	21 10%
Measure fundal height	128 60%	17 8%	10 5%	19 9%	39 18%
Mix insulin preparations	10 5%	30 14%	55 26%	60 28%	59 28%

Monitor input and output	141 66%	41 19%	9 4%	12 6%	11 5%
Monitor patients for breastfeeding problems	170 80%	22 10%	8 4%	5 2%	8 4%
Monitor patients for successful breastfeeding	170 80%	23 11%	9 4%	5 2%	5 2%
Observe for parent-infant attachment	182 85%	18 8%	5 2%	5 2%	4 2%
Observe lochia	176 82%	16 7%	5 2%	4 2%	14 7%
Observe the perineum	174 82%	15 7%	5 2%	5 2%	12 6%
Obtain maternal vital signs	180 85%	11 5%	3 1%	4 2%	15 7%
Palpate the uterus	173 82%	12 6%	2 1%	7 3%	16 8%
Perform a vaginal exam	41 20%	12 6%	12 6%	23 11%	121 58%
Perform fundal massage	126 59%	36 17%	21 10%	12 6%	18 8%
Provide maternal wound care	94 44%	41 19%	27 13%	27 13%	24 11%
Review maternal antenatal history	167 79%	21 10%	10 5%	8 4%	6 3%
Review maternal intrapartum history	172 82%	20 10%	10 5%	6 3%	2 1%
Administer eye prophylaxis	90 43%	23 11%	17 8%	31 15%	50 24%
Administer vitamin K	95 45%	24 11%	16 8%	28 13%	48 23%
Auscultate newborn lung sounds	161 76%	19 9%	7 3%	11 5%	13 6%
Auscultate newborn bowel sounds	151 72%	22 10%	7 3%	13 6%	17 8%
Auscultate newborn heart sounds	161 77%	16 8%	8 4%	10 5%	14 7%
Bathe infants	114 54%	40 19%	14 7%	16 8%	28 13%
Document care	192 91%	7 3%	1 0%	5 2%	6 3%
Feed infants	146 69%	32 15%	13 6%	11 5%	11 5%

Manage neonatal thermoregulatory needs	167 79%	17 8%	8 4%	8 4%	11 5%
Perform a general neonatal physical exam	166 77%	18 8%	6 3%	13 6%	12 6%
Perform a neonatal behavioral exam	99 46%	28 13%	26 12%	21 10%	39 18%
Perform Apgar scoring	53 25%	25 12%	18 8%	21 10%	96 45%
Take neonatal vital signs	170 79%	18 8%	6 3%	5 2%	15 7%
Perform gestational age assessment	71 33%	29 14%	34 16%	21 10%	58 27%
Perform heel sticks	119 56%	45 21%	18 8%	14 7%	16 8%
Perform Ortolani maneuver	52 25%	17 8%	18 9%	14 7%	103 50%
Provide cord care	152 72%	14 7%	9 4%	10 5%	26 12%
Provide post circumcision care	118 56%	43 20%	15 7%	12 6%	24 11%

28. How do you keep up with new practice information? (Check as many as apply)		
Attend live presentation continuing education programs	800	80%
Attend online programs like podcasts or webinars	481	48%
Attend institutional inservice programs	669	67%
Downloads to PDA or IPOD	24	2%
Hold membership in a professional organization	819	82%
Pursue academic degree or classes	144	14%
Read research articles or papers	246	24%
Subscribe to a journal or professional resource	621	62%
Use home study continuing education materials/tests	442	44%
Use web-based (online) home study education programs	405	40%
Visit professional websites	511	51%
Participate in research projects	132	13%

