

## Goals and Objectives Evaluation Table

*Rotation: Neonatal ICU*

<b>Goal #1:</b> Understand the pediatrician's role in and become an active advocate for programs to reduce morbidity and mortality from high-risk pregnancies.										
Objectives	Priority Yes/ No	Teaching			Evaluation			Domain	Skills	PGY
		Who	Where	Method	Who	Where	Method			
#1. Strategies to reduce fetal and neonatal mortality: <ul style="list-style-type: none"> <li>• Use of GBS prophylaxis</li> <li>• Perinatal steroids</li> </ul>	Yes	Faculty	SCN/TTHSC	B,D,L,N	Faculty & NNP	SCN	e,h,j	PC, MK, PBLI	3,5,9,22	1,2,3
#2. Understand/assess: <ol style="list-style-type: none"> <li>a. Basic newborn vital statistics.</li> <li>b. Prenatal services in your region.</li> <li>c. Test used by OB to measure fetal well being.</li> <li>d. Neonatal Transport Systems.</li> </ol>										
#3. Describe effective intervention programs for teens & other high-risk mothers.										
#4. Recognize & demonstrate pediatricians role in assessment & management strategies for minimizing the risk to fetus and or newborn in potential adverse perinatal conditions: <ol style="list-style-type: none"> <li>a. Maternal infection during pregnancy/chorio-annionitis/Post-partum maternal fever, infections.</li> <li>b. Fetal exposure to harmful substances.</li> <li>c. Maternal insulin dependant &amp; gestational related diabetes.</li> </ol>										

<ul style="list-style-type: none"> <li>d. Multiple Gestations.</li> <li>e. Placental abnormalities.</li> <li>f. PIH, pre-eclampsia, eclampsia, HELLP syndrome.</li> <li>g. Polyhydramnios, oligohydramnios</li> <li>h. Premature labor, prolonged rupture/ premature rupture of membranes.</li> <li>i. Fetal distress.</li> <li>j. Complications of anesthesia/and forceps/vacuum delivery methods.</li> <li>k. Maternal blood group incompatibilities.</li> <li>l. Common maternal conditions; lupus, thrombocytopenia</li> </ul>										
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<b>Goal #2: Assess, resuscitate and stabilize critically ill neonates.</b>										
Objectives	Priority Yes/No	Teaching			Evaluation			Domain	Skills	PGY
		Who	Where	Method	Who	Where	Method			
#1. Explain/perform resuscitation and stabilization of the neonate	Yes	Faculty	TTUHSC SCN/L&D	A,C,D,I,O,N	Faculty & NNP	TTUHSC SCN, L&D	a, b,d,e,g,n	PBLI, com, PC,MK,PRO	1,2,3,4,5	1,2,3
#2. Describe common causes of acute deterioration in previously stable SCN patients.										
#3. Function appropriately in codes and neonatal resuscitation as part of a team.										

Currently under review by Dr. Ipson 5/23/06

a. Participate in resuscitations.										
b. Complete NRP.										
c. Use neonatal resuscitation drugs appropriately.										

<b>Goal #3: Recognize presenting signs and symptoms and manage (under supervision of neonatology) the following common conditions in the SCN.</b>										
Objectives	Priority Yes/No	Teaching			Evaluation			Domain	Skills	PGY
		Who	Where	Method	Who	Where	Method			
#1. Cardiovascular: a. CHD, cyanotic & acyanotic & cyanosis not due to heart disease. b. Cardiomyopathy, pericarditis c. Congestive heart failure. d. Dysrhythmias.	Yes	Faculty	SCN/ L&D	A,B,C,D,E, H,K,L,O	Faculty, NNP	SCN	b,d,e ,g,h,l,m	All	All	1,2,3
#2. Genetic/Metabolic/Endocrine: a. All metabolic abnormalities screened by the TDH NB screen. b. Common inborn errors of metabolism. c. Management of infants born to moms with endocrine abnormalities including diabetes. d. Common chromosomal abnormalities, malformations.		Dr. Wilson								
#3. GI/Nutrition: a. Breastfeeding support for the high risk mother, infant, and multiple births. b. Umbilical line										

<p>complications.</p> <ul style="list-style-type: none"> <li>c. Biliary atresia, NEC, GER.</li> <li>d. Nipple feeding the high risk infant, preterm, neurologically impaired, maxillofacial anomalies, IUGR/SGA.</li> <li>e. Initiation &amp; management of TPN, identify complications of TPN.</li> </ul>										
<p>#4. Hematologic:</p> <ul style="list-style-type: none"> <li>a. Bleeding disorders; DIC, hemophilia</li> <li>b. Anemia, polycythemia</li> <li>c. Hydrops due to erythroblastosis fetalis</li> <li>d. Platelet abnormalities</li> <li>e. Neutropenia</li> <li>f. Hyperbilirubinemia</li> </ul>										
<p>#5. Infectious Disease:</p> <ul style="list-style-type: none"> <li>a. Congenital infections; viral, bacterial, protozoal, syphilis, ureaplasma.</li> <li>b. Peripheral/central line infections.</li> <li>c. Hepatitis</li> <li>d. Infant of a Hep B or HIV positive mom.</li> <li>e. Early &amp; late onset neonatal sepsis, GBS, meningitis.</li> <li>f. Herpes Simplex.</li> <li>g. Nosocomial infections, treatment and prevention.</li> <li>h. Varicella exposure.</li> <li>i. RSV</li> </ul>										

j. Synagis, routine vaccinations of the ill & preterm infant.										
<p>#6. Neurologic Disorders; be able to do a good neuro exam to identify early neurologic impairment</p> <ul style="list-style-type: none"> <li>a. Central apnea, mixed apnea</li> <li>b. Common CNS abnormalities; encephalocele, spina bifida, holoprosencephaly</li> <li>c. Prevention &amp; Screening for hearing loss</li> <li>d. Hydrocephalous, micro and macrocephaly</li> <li>e. Drug withdrawal</li> <li>f. Hypotonic, jittery, irritable</li> <li>g. Seizures</li> <li>h. IVH, PVL</li> <li>i. Hypoxic Ischemic Encephalopathy</li> <li>j. Neuro injury due to birth trauma</li> </ul>										
<p>#7. Pulmonary Disorders</p> <ul style="list-style-type: none"> <li>a. HMD, BPD</li> <li>b. Meconium Aspiration with and without PPHN</li> <li>c. Pneumonias, TTN (retained fetal lung fluid)</li> <li>d. Air leaks</li> </ul>										
<p>#8. Renal</p> <ul style="list-style-type: none"> <li>a. Abnormal genitalia</li> <li>b. Acute – chronic renal failure</li> </ul>										

c. Oliguria, anuria, proteinuria, hematuria, urinary retention d. Renal mass evaluation e. Renal malformations										
#9. Initial management of acute surgical problems in the neonate a. CHD b. Diaphragmatic hernia c. Abdominal wall defects d. Esophageal atresia tracheal esophageal fistulas e. NEC, bowel perforation f. Malrotation with a volvulus g. Bowel obstructions, meconium plugs and atresias										
#10. Family problems a. Anxiety disorders b. Child abuse & neglect c. Poor attachment d. Postpartum depression e. Substance abuse f. Teenage parents										

<b>Goal #4: Understand common monitoring technology &amp; therapeutic modalities used in the newborn &amp; fetus</b>										
Objectives	Priority Yes/No	Teaching			Evaluation			Domain	Skills	PGY
		Who	Where	Method	Who	Where	Method			
#1. Be able to discuss the indications, contraindications & complications, know general technique & interpret results of the following; a. Physiologic monitoring of all parameters of vital	Yes	Faculty	SCN, L&D	A,C,D,O	Faculty	SCN, L&D	c,e,g,l,m	All	1-12	1,2,3

<ul style="list-style-type: none"> <li>signs &amp; pulse oximeter</li> <li>b. Neonatal pain &amp; drug withdrawal scales</li> <li>c. Oxygen administration and basic modes of positive pressure ventilation and CPAP under supervision of neonatology</li> <li>d. Endotracheal Intubation</li> <li>e. Surfactant administration</li> <li>f. Understand theory behind ECMC and nitric oxide therapy</li> <li>g. Umbilical and central line catheters</li> <li>h. Analgesics, antiepileptics, sedatives &amp; paralytics</li> <li>i. Blood product transfusions including double volume and exchange transfusions</li> <li>j. Vasoactive drugs</li> <li>k. Judicious use of antibiotics</li> <li>l. Home medical equipment; oxygen, monitors, medication, aerosol treatments</li> <li>m. Know resources to assist infants with special needs in their transition during discharge to home care</li> <li>n. Guide moms in the use of breast pumps</li> </ul>										
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<b>Goal #5:</b> Be able to describe the rationale for the following procedures and have the ability to perform them competently										
Objectives	Priority Yes/No	Teaching			Evaluation			Domain	Skills	PGY
		Who	Where	Method	Who	Where	Method			
<p>#1. Mandatory to perform and document:</p> <ul style="list-style-type: none"> <li>a. Neonatal Resuscitation</li> <li>b. Endotracheal Intubation</li> <li>c. Peripheral IV's</li> <li>d. Arterial and venous puncture</li> <li>e. Umbilical vessel catheterization (venous &amp; arterial)</li> <li>f. Lumbar puncture</li> <li>g. Bladder catheterization</li> <li>h. Pain management in the neonate</li> <li>i. Partial exchange transfusion</li> <li>j. B-M ventilation</li> </ul>	Yes	Faculty, NNP, Senior Residents	SCN, L&D	A,C,O	Faculty, NNP, Senior Resident	SCN, L&D	b, g	All	1-5, 7	1,2,3
<p>#2. Exposure and understanding of the following (recommend documentation):</p> <ul style="list-style-type: none"> <li>a. Thorocentesis, chest tube placement and maintenance</li> <li>b. Inhalation treatments</li> <li>c. Incision and drainage of superficial abscesses</li> <li>d. Double volume exchange transfusion</li> <li>e. NG/OG tube placement</li> <li>f. Suctioning; nares, oropharynx, trachea</li> </ul>										



<b>Goal #6:</b> Understand the following procedures, how they work, when to use them and how to competently perform the underlined ones.										
Objectives	Priority Yes/No	Teaching			Evaluation			Domain	Skills	PGY
		Who	Where	Method	Who	Where	Method			
#1. Mandatory to perform and document: <ul style="list-style-type: none"> <li>a. EKG and the <u>emergency interpretation</u></li> <li>b. Hearing screen</li> <li>c. <u>Cardiac, respiratory and oxygen saturation monitoring</u></li> <li>d. End tidal CO2 monitoring</li> <li>e. Abdominal sonogram and x-rays</li> <li>f. <u>Chest x-rays</u></li> <li>g. Head ultrasound</li> <li>h. GI contrast studies</li> <li>i. X-rays of extremities</li> </ul>	Yes	Faculty	SCN	C,F,H,L,O	Faculty	SCN	g , h	All	2-3	1,2,3

## Legend

<p><b>Teaching Methods</b></p> <ul style="list-style-type: none"> <li>A. Clinical encounter</li> <li>B. Lecture</li> <li>C. Seminar or a small group</li> <li>D. Assigned reading</li> <li>E. Case conference</li> <li>F. Morning report</li> <li>G. Grand rounds</li> <li>H. Presentation</li> <li>I. AV media module</li> <li>J. Web-based module</li> <li>K. Journal reading/presenting</li> <li>L. M&amp;M conference</li> <li>M. Portfolio</li> <li>N. Quality improvement activity</li> <li>O. Supervised activity</li> </ul>	<p><b>RRC Domains</b></p> <p>PC – Patient Care          MK – Medical Knowledge          PBLI – Practice-based Learning and Improvement          COM – Interpersonal Skills and Communication          PRO – Professionalism          SBP – Systems-based Practice</p>				
<p><b>Evaluation Methods</b></p> <ul style="list-style-type: none"> <li>a. Global rating</li> <li>b. Direct observation with checklist</li> <li>c. Consensus opinion/multiple raters</li> <li>d. 360 rating</li> <li>e. Written examination</li> <li>f. Patient survey</li> <li>g. Case/procedure log</li> <li>h. Conference attendance log</li> <li>i. EBM activity log</li> <li>j. QI activity assessment</li> <li>k. Systems error activity/discussion</li> </ul>	<p><b>Basic Clinical and Professional Skills</b></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; vertical-align: top;"> <ol style="list-style-type: none"> <li>1. Perform an appropriate clinical exam</li> <li>2. Appropriately use diagnostic studies, procedures and labs</li> <li>3. Apply sound decision-making and clinical judgment</li> <li>4. Use medications and therapies safely and effectively</li> <li>5. Manage and advocate for the whole patient</li> <li>6. Skillfully and empathically manage patient’s acute or terminal illness, or death.</li> <li>7. Effectively and empathically communicate with patients and families.</li> <li>8. Effective data gathering from history and interview.</li> <li>9. Promotion of patient education and counseling.</li> </ol> </td> <td style="width: 33%; vertical-align: top;"> <ol style="list-style-type: none"> <li>13. Effective teaching of students, colleagues, other professionals and lay groups.</li> <li>14. Develop and demonstrate effective leadership and collaboration skills.</li> <li>15. Function as a consultant to other physicians and health professionals</li> <li>16. Use consultations and referrals effectively</li> <li>17. Develop responsible and productive work habits and professional responsibility.</li> <li>18. Develop personal responsibility and balance personal and professional interests.</li> <li>19. Understand basic principles in medical ethics and identify issues.</li> <li>20. Understand legal issues in pediatric practice</li> <li>21. Develop skills in life-long learning and self-</li> </ol> </td> <td style="width: 33%;"></td> </tr> </table>		<ol style="list-style-type: none"> <li>1. Perform an appropriate clinical exam</li> <li>2. Appropriately use diagnostic studies, procedures and labs</li> <li>3. Apply sound decision-making and clinical judgment</li> <li>4. Use medications and therapies safely and effectively</li> <li>5. Manage and advocate for the whole patient</li> <li>6. Skillfully and empathically manage patient’s acute or terminal illness, or death.</li> <li>7. Effectively and empathically communicate with patients and families.</li> <li>8. Effective data gathering from history and interview.</li> <li>9. Promotion of patient education and counseling.</li> </ol>	<ol style="list-style-type: none"> <li>13. Effective teaching of students, colleagues, other professionals and lay groups.</li> <li>14. Develop and demonstrate effective leadership and collaboration skills.</li> <li>15. Function as a consultant to other physicians and health professionals</li> <li>16. Use consultations and referrals effectively</li> <li>17. Develop responsible and productive work habits and professional responsibility.</li> <li>18. Develop personal responsibility and balance personal and professional interests.</li> <li>19. Understand basic principles in medical ethics and identify issues.</li> <li>20. Understand legal issues in pediatric practice</li> <li>21. Develop skills in life-long learning and self-</li> </ol>	
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<ul style="list-style-type: none"> <li>l. Self assessment</li> <li>m. Individual learning plan</li> <li>n. Critical incident discussion</li> </ul>	<ul style="list-style-type: none"> <li>10. Effective use of telephone communications.</li> <li>11. Professional communication and collaboration in healthcare teams.</li> <li>12. Maintain accurate, legible, timely and legally appropriate medical records when caring for patients.</li> </ul>	<ul style="list-style-type: none"> <li>assessment.</li> <li>22. Responsible use of information technology in decision-making and patient management.</li> <li>23. Critically read and apply scientific evidence/research to patient care.</li> <li>24. Formulate career plans.</li> </ul>
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