

NICU Guidebook

TABLE OF CONTENTS

- **Medications**

- Antibiotics**

- Acyclovir
- Amoxicillin
- Amphotericin B Deoxycholate
- Amphotericin B Liposomal
- Ampicillin
- Azithromycin
- Aztreonam
- Cefazolin
- Cefepime
- Cefotaxime
- Ceftriaxone
- Cephalexin
- Ciprofloxacin
- Clindamycin
- Co-Trimoxazole
- Fluconazole
- Gancyclovir
- Gentamicin
- Levofloxacin
- Meropenem
- Metronizadole
- Nafcillin
- Nystatin
- Penicillin G Aqueous
- Piperacillin/Tazobactam (Zoysn)
- Rifampin
- Tobramycin
- Vancomycin

- Cardiovascular Medications**

- Adenosine
- Aminocaproic Acid (for ECMO)
- Atropine
- Calcium Chloride
- Captopril
- Dobutamine Infusion
- Dopamine Infusion
- Enalaprilat
- Epinephrine
- Esmolol Infusion

- Hydrocortisone
- Ibuprofen (Neoprofen)
- Indomethacin
- Milrinone Infusion
- Nitroprusside Infusion
- Norepinephrine Infusion
- Propranolol
- Sildenafil

- ☐ **Discharge Medications**
 - Section includes preparation of different medications prior to NICU discharge

- ☐ **Diuretics Medications**
 - Acetazolamide
 - Bumetadine
 - Chorothiazide
 - Furosemide
 - Metolazone
 - Spironolactone (Aldactone)

- ☐ **Electrolytes**
 - Arginine HCL
 - Calcium Gluconate
 - Magnesium Replacement
 - Potassium Chloride Replacement
 - Sodium Chloride Replacement

- ☐ **GI Medications**
 - Desmopressin
 - Fludrocortisone (Florinef)
 - Insulin
 - Levothyroxine
 - Vasopressin

- ☐ **GI Medications**
 - Erythromycin (For motility)
 - Glycerine enema
 - Loperamide (for chronic diarrhea)
 - Pantoprazole (Protonix)
 - Phenobarbital for Cholestasis
 - Polyethylene Glycol Powder (Miralax)
 - Ranitidine (Zantac)
 - Simethicone (Mylicon)
 - Ursodiol (Actigall)

- ☐ **Hematological Medications**
 - AQUADEKs
 - Cholecalciferol (D-Visol)
 - GMCSF (Sargramostim)

- Immunoglobulin (IVIG)
- MVI with Fe / MVI
- **Immunizations**
 - This section included doses and indications of different medications.
- **Neurological Medications**
 - Clonazepam (Klonopin)
 - Fentanyl
 - Fosphenytoin
 - Levetiracetam (Keppra)
 - Lorazepam (Ativan)
 - Methadone
 - Midazolam (Versed)
 - Morphine
 - Naloxone
 - Phenobarbital
 - Pyridoxine Injection
 - Vecuronium
- **Miscellaneous**
 - Acetaminophen
 - Albumin
 - Calcium Tribasic
 - Clonidine
 - Flonase
 - Ibuprofen
 - Mupirocin
 - Octreotide
 - Palivizumab (Synagis)
 - Phenylephrine Nasal (Neo-Synephrine)
 - Phytonadione Injection
 - Sodium Bicarbonate
 - Triamcilonone 0.5% Ointment
- **Respiratory Medications**
 - Aminophylline
 - Beclomethasone (QVAR)
 - Caffeine Citrate
 - Dexamethasone for airway edema
 - Dornase Alfa
 - Fluticasone (Flovent)
 - Ipratropium (Atrovent)
 - Methylprednisolone
 - Poractant (Curosurf)
 - Theophylline

- **Calculations**
 - **Weight Conversion**
 - **Feeding Calculator**
 - **Body Surface Area**
 - **Endotracheal Tube Size**
 - **Endotracheal Length to Lip**
 - **UAC Placement, High Position**
 - **UVC Placement**
 - **Glucose Infusion Rate**
 - **Estimated Blood Volume of an Infant**
 - **Partial Exchange Transfusion – Volume of Exchange (ml)**
 - **Total Exchange Volume (ml) – (equivalent of two neonatal blood volumes)**
 - **Oxygen Index**
 - **Lung Compliance**
 - **Anion Gap**
 - **Urinary Fractional Excretion of Na (%)**
- **Management**
 - **Cardiovascular System**
 - **Coarctation of the Aorta Guidelines**
 - **Congenital Heart Disease Screening**
 - **Patent Ductus Arteriosus Ligation Checklist**
 - **Delivery Room Management**
 - **Congenital Diaphragmatic Hernia Management**
 - **Delayed Cord Clamping**
 - **Emergency Medications**
 - **Resuscitation in the Delivery Room**
 - **Discharge from the NICU**
 - **Angle Tolerance Test**
 - ✓ **ACH Policy**
 - ✓ **UAMS Policy**
 - **Guidelines for NICU Discharge**
 - **Fluids and Electrolytes**
 - **Electrolytes Abnormalities**
 - **Fluid Requirement in Neonate**
 - **Humidification**
 - **Thermoregulation**
 - **Gastrointestinal System**
 - **Feeding Residual Management Algorithm**
 - **Genetics**
 - **Algorithm for Genetic Evaluation in NICU**
 - **Infants with Trisomy 21**
 - **Genitourinary System**
 - **Urinary Tract Infection NICU Protocol**
 - **Urology Prenatal Anomalies Algorithm**

— Hematological System

- Exchange Transfusion
- Indirect Hyperbilirubinemia
 - ✓ Indirect Hyperbilirubinemia Overview
 - ✓ Link to Graph of Hour-Specific Bilirubin Normogram for Designation of Risk of Hyperbilirubinemia
 - ✓ Link to Table of Risk Factors for Development of Severe Hyperbilirubinemia in infants ≥ 35 Weeks Gestation
 - ✓ Link to Graph of Guidelines For Phototherapy in Hospitalized infants ≥ 35 Weeks Gestation
 - ✓ Link to Graph of Guidelines for Exchange Transfusion in Hospitalized infants ≥ 35 Weeks Gestation
- Thrombosis Work up
- Transfusion in Neonate

— Infectious System

- Evaluation of Infant with Suspected Maternal Chorioamnionitis
- Early GBS Disease among Newborns
- Links to Important Tables and Algorithms
 - ✓ Evaluation & Management of Asymptomatic Neonates Born to Mothers with Active Herpes Lesions
 - ✓ Algorithm for Screening for Group B Streptococcal Colonization and Use of Intrapartum Prophylaxis for Women with Preterm Labor
 - ✓ Algorithm for Screening for Group B Streptococcal Colonization and Use of Intrapartum Prophylaxis for Women with preterm Premature Rupture of Membranes (pPROM)
 - ✓ Recommended Regimens for Intrapartum Antibiotic Prophylaxis for Prevention of Early-onset group B streptococcal disease
 - ✓ Management of Neonates for Prevention of Early-Onset Group B Streptococcal (GBS) Disease
 - ✓ Indications for Intrapartum GBS Prophylaxis
 - ✓ Immunization Schedule, United States 2017
 - ✓ Hepatitis B vaccination & Immunoprophylaxis (Refer to Immunization Schedule Link)
 - ✓ Neonates Born to Mothers with Positive HIV Status
 - Laboratory Diagnosis of HIV Infection
 - Zidovudine Regimen For Decreasing the Rate of Mother-to-Child Transmission of HIV
- Sepsis Evaluation in the Nursery

— Miscellaneous

- Congenital Hypothyroidism Management Algorithm
- Myelomeningocele Protocol
- Newborn Screening Algorithm
- Triage Neonate Call / Admission

— Neurology System

- Hydrocephalus
- Hypoxic Ischemic Encephalopathy (Guidelines for Whole Body Cooling)
- Intraventricular Hemorrhage and Periventricular Leukomalacia
- Neonatal Abstinence Algorithm
- Neonatal Seizures
- **Nutrition**
 - Enteral Nutrition
 - ✓ Breastmilk
 - ✓ Donor Breast Milk
 - ✓ Feeding Protocols
 - ✓ Formulas, Human Milk Fortifier, & Fat Modular
 - Formula Overview
 - Link to Table of Preterm Formulas
 - Link to Table of Transitional Formulas
 - Link to Table of Term Formulas
 - Link to Table of Specialized Formulas
 - Link to Table of Human Milk Fortifier
 - Link to Table of Fat Modular
 - ✓ Oral Colostrum Care
 - Parenteral Nutrition
 - Thickening Agents
 - Vitamins & Minerals
 - ✓ Calcium Tribasic
 - ✓ Multivitamins & Iron
 - ✓ Vitamin D
- **Ophthalmology**
 - Retinopathy of Prematurity
- **Procedures**
 - Procedure Precaution
 - Vascular Access in NICU
- **Respiratory System**
 - Extracorporeal Membrane Oxygenation
 - ✓ ECMO Cannulation Algorithm
 - ✓ ECMO Cannulation Guideline
 - ✓ ECMO in Neonates – General Guidelines
 - Inhaled Nitric Oxide Initiation and Weaning
 - Non-invasive Respiratory weaning Algorithm
 - Postnatal Steroid Guideline in Neonate
 - Premedication prior to Intubation Guidelines
 - Respiratory Distress in Term and Late Preterm Infants
 - Target Oxygen saturation in Neonate
 - Use of CPAP, NIMV and Surfactant Administration in Preterm, Late Preterm and Term Infants
 - Use of Cuffed ETT guidelines

- Use of Transcutaneous CO2 Monitoring Guidelines
- Ventilation in Neonate
- Resources
 - Clinical Trials
 - ERAVE – Important Documents
 - NICU Schedule (Service & On-Call)
 - Tele-Nursery Sites
 - Transport Protocols
 - This file includes list and description of transport protocols for infants with various medical pathologies
 - Useful Links and Tools
 - Useful Links
 - ✓ Arkansas Fetal Diagnosis
 - ✓ Vocera
 - ✓ PACS system
 - ✓ Compoint
 - Useful Tools
 - ✓ BiliTool
 - ✓ BPD Outcome Estimator
 - ✓ Newborn Sepsis Calculator
- Contacts
 - ACH Infection Control
 - ACH NICU Important Room Extension Numbers
 - ACH Oral Therapists
 - ACH Speech Therapists
 - Neonatology Faculty and Fellows Pager Numbers
 - Neonatology Nurse Practitioner Pager Numbers
 - Pharmacists (ACH/UAMS)
 - Registered Dieticians (ACH/UAMS)
 - Social Workers (ACH/UAMS)
 - Specialty Nurses (ACH/UAMS)
 - UAMS NICU Important Phone Numbers