Hospitalized Child

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A. Injection
a. "Painful"

I. NSG
A. Topical Anesthetic
a. Lidocaine based - "Emla"
b. Let it stay a while - Before any invasive procedure ( Certain )

I. IE
A. Led poisoning

Infections
increase WBC - Presence of Micro organism
Irritability, Fever
Pain, Red ( Erythema ) , Swelling
Inflammations
No presence of micro organism
Swelling, Redness ( surface of the skin ), Pain, Warmness
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Test

Medications

Sickle Cell Congenital Anomalies Separations Anxiety Hospitalized Child Different Pain scale Age Associated

Organ compose - Lower Organ compose - Upper

What age do they give - What kind

For Bronchiolitis

Congenital Anomalies

- a. Associated with respiratory -
 - 1. Life threatening anomalies of the esophagus
 - 2. Can occur together but not necessarily
 - A. "Esophageal Atresia"
 - a. Blind pouch / Narrowing at the end of the esophagus
 - b. S/SX
 - I. Unable to get food through
 - 2. Little food gets through Risk for occlusion
 - 3. Respiratory difficulty
 - 4. Excessive drooling
 - 5. Feeding intolerance
 - B. "Esophageal Tracheal Fistula" TEF
 - a. Hole Connects Esophagus Trachea
 - b. NSG
 - I. No Feeding Will kill baby
 - c. S/SX
 - 1. 3 "C"
 - A. Choking
 - B. Coughing
 - C. Cyanosis
 - 3. Intervention
 - A. If drooling / Cyanosis / Respiratory difficulty
 - a. NSG
 - I. Evaluate
 - A. Before child goes home
 - 2. Call DR right away
 - 3. No Food by mouth
 - 4. Maintain
 - A. Fluid
 - B. Respiratory
 - 4. <u>NSG</u>
 - A. Priority
 - a. Respiratory
 - I. Maintain good respiratory
 - B. Early intervention Great prognosis
 - C. Maintain IV
 - D. Post-Op
 - a. Electrolyte imbalance
 - I. Fluid intake maintained
 - E. Early Feeding
 - a. To check if baby has anomalies
 - 5. <u>TX</u>
 - A. Surgery Fix the anomalies
 - a. Cut the part Anastomosis
 - b. Blind pouch
 - 1. Cut through and make connection with stomach

Muscular Skeletal

A. Hip Dysplasia

- a. Birth 6 Months
- b. Abnormal developmental dysplasia of the hip
- c. Abnormal development of one or all of the component of the hip joint
 - 1. Causes instability of the hip
- d. S/SX
 - 1. Ortholany click
- e. *TX*
 - I. Double Diaper / Thick Diaper
 - A. Before discharge
 - B. Done First to push femur in a right angle and into the acetabum
 - 2. Padvic Harness
 - A. Birth 6 Months (Once discharge)
 - B. Keeps the knee flex and abducted
 - C. Pushes the head of the femur into the acetabum
 - 3. Traction
 - A. 6-18 months
 - B. Type
 - a. Brians Traction
 - 1. " Skin Traction "
 - 2. Both of the leg in the baby is extended Up in the air (Counter Traction)
 - 3. Keeps the hip 90 degree angle from the body
 - 4. NSG
 - A. Buttocks will not touch the bed If touch Traction off
 - B. Ropes on the pulley
 - C. Weights are free
 - D. Nurse should be able to place hand under babies buttocks
 - 4. Spica Cast
 - A. One or more extremities is in a cast
 - B. Looks like a pants
 - C. NSG
 - a. Plastic Cast
 - I. Hold in the palm of your hands "Do not indent"
 - b. Extremities
 - 1. Check all extremities for any swelling or discolorations
 - 2. Should be able to put your fingers in the toes area
 - 3. Baby should be able to wiggle toes
 - 4. Check for sensation
 - A. Pinch toes to see if it moves
 - c. Toys
 - 1. No toy should be given to a child that he may put inside the cast
 - A. Rational
 - a. Child may use toy to shove it down the cast INFECTIONS
 - d. Itchy / Irritations / Discomfort
 - I. Use hairdryer Soothing
 - 2. Genitals
 - A. Peddling around the cast
 - a. So no irritation on the edges of the cast
 - D. Treatment
 - a. Early as possible
 - 1. Child may try to walk Increase likely of major injury

Genital Anomalies

A. <u>2 Type</u>

- a. Hypospadias
 - I. Opening in the under side of the penis
 - 2. Common conditions
 - 3. S/SX Physiologic
 - A. Traumatic For a little boy
 - a. They have to sit down like a girl
 - B. May cause Infertility -
 - 4. TX
 - A. Surgical
- b. Epispadias
 - I. Urethra on the top of the penis (Dorsal surface)
 - 2. Rare conditions
 - 3. "Expastre of the bladder" Goes hand in hand
 - A. Goes in conjunction with Episadias
 - B. S/SX Physiologic
 - a. Abnormal development of the bladder, abdominal wall and symphysis pubis
 - b. Bladder expose Visible Supra pubic area
 - I. Red mass
 - C. TX
 - a. Re-constructive surgery

Respiratory Diseases

Common diseases of small children

a. High rate - Emergency room

NSG

- a. Educations
 - 1. Parent Teaching
 - A. Thermometer -
 - B. Entire course of Medications
 - a. 10 days should be given 10 days
 - C. Appointment
 - a. Compliant with appointment All vaccines

Tonsilitis

- a. Type
 - I. Adenoids
 - 2. Palatine
 - A. Common place for infections
- b. <u>S/SX</u>
 - I. Leukocytosis, Fever, Pain, Swelling
 - 2. Irritable, Lethargic
 - 3. Bad breath
 - 4. Peri tobsular abscess
- c. NSG
 - I. Asses Infection Process
 - A. Fever, Redness, Pain, Swelling
 - B. Swallowing? "Can't swallow"
 - a. Drooling
 - b. Sore Throat
 - C. Bacteria (3+)
 - D. Virus (3 Under)
- d. <u>TX</u>
 - I. Tylenol
 - A. Anti pyretic
 - B. Pain management
 - 2. NO Aspirin
 - 3. Antibiotic
 - A. Education
 - a. if 10 days Give full 10 days
 - 4. Bed rest Stay at home
 - 5. Post-op Tonsillectomy
 - A. They will remove Palatine
 - B. Risk
 - a. Hemorrhage
 - 1. <u>S/SX</u>
 - A. Constantly swallows
 - 2. NSG
 - A. No red drink
 - a. Rational
 - I. If they vomit Know if they are bleeding
 - B. Check back of neck Wetness
 - a. Drooling Blood will pool behind the neck

Bronchiolitis / RSV

- a. Disease of the lower respiratory tract
 - 1. Inflammations of the Fine bronchi Small bronchi
- b. <u>Physiological</u>
 - Age
 - A. Small children age
 - 2. Predisposes child to Asthma
 - 3. Dominant in May
 - 4. Virus Causes
 - A. Adino Virus
 - B. Para influenza Virus
 - C. RSV Respiratory Synctial Virus
- c. <u>S/SX</u>
 - I. Respiratory Symptoms
 - A. Last 2-3 days
 - B. Nasal Flaring
 - C. Inter-coastal Sub-coastal Retractions
 - a. Tachypnea
 - D. Hypoxia can Occur
 - a. (Blocking of the bronchi leads to alveoli)
 - E. Cyanosis
 - 2. Low Grade Fever
 - 3. Leukocytosis
 - A. Leukocyte Segmentations Rate
 - 4. Tachycardia Pulse increase
 - 5. Appetite Poor
 - 6. Lethargic Look Sick
- d. <u>Aq</u>
- e. Lab / Diagnostic
 - Cultured
- f. NSG
 - I. Contact precautions
 - A. Contact Isolations Secretions
 - 2. Medications
 - A. Anti pyretic
 - B. Synergist
 - a. Given IM for children that are compromised
 - 3. Tachypnea
 - A. NSG
 - a. Make sure children are well hydrated
 - b. IV
 - 4. Monitor
 - A. Because children can not tell you what is wrong
 - 5. Nebulizer
 - A. Steroid
 - 6. Position
 - A. Semi-Fowler
 - 7. Teaching
 - A. Parent Teaching
 - a. Support parents Room-in
 - b. Proper hand washing
 - 8. O2 saturations (Might be low)
 - 9. Croat Tent
 - A. Humidified Oxygen (Designed like a tent)

Epiglottitis

- A. Physiological
 - a. Disease of young children (3 7)
 - b. Infections in the epiglottis
 - c. Life threatening Emergency *SERIOUS*
 - 1. Might be well in the morning Sudden decrease in well-being
 - A. Sudden onset of S/SX
 - d. Cherry looking Epiglottis
 - e. They assume Tripod Position
 - I. Tripod Frog Position
 - f. S/SX
 - I. Hoarseness
 - 2. Difficulty swallowing / speaking
 - 3. Swelling
- B. Causes
 - a. Staph
 - b. Strep
 - c. Hemophilus Influenzae
- C. NSG
 - a. Trachea Set at hand Bedside
 - I. IMPORTANT
 - b. Specialized Health care should be the one who assess the throat
 - I. RN should not assess
 - 2. Anesthesiologist / DR
 - c. Cause by Bacteria Emergency TX
 - d. Support
 - I. Sudden onset may assume parental fault (Emotional for parents)
 - e. Antibiotic
 - f. Treatment Immediately
 - 1. If done quickly will go away in a few days
- D. <u>Diagnostic</u>
 - a. Xray

Croup Disease

a. Different type of Croup

Bronchio Asthma

A. Physiological

- a. Lower Respiratory Tract Disorder
 - 1. Characterized by Broncho Spasm
 - 2. Inflammation of Broncho mucusa
 - 3. Increase Mucus productions
 - A. *Decreases the size of the airway opening* "Broncho Constrictions"
 - a. Cause by Spasm, Mucus (Increase productions and Inflammations)

B. S/SX

- a. Respiratory Distress
 - I. Due to Broncho Constrictions
- b. Bronchio spasm
- c. Wheezing on expirations
 - I. Loud Audible
- d. Mucus productions Increase
 - I. Thick, viscous
- e. O2 stat Decreases
- f. Restless, apprehensive
- g. Hacking cough Non productive
- h. Flaring of Nares
- i. Circumolar cyanosis
 - I. Cyanosis in the mouth

C. Precipitated - Causes

- a. Allergens
 - I. Animal dander, Pollens
- b. Infestations
 - 1. Bed bugs, roaches
- c. Pollutants
 - 1. Smoke, Spray
- d. Exercise
- e. Temperature changes
- f. Food
- g. Upper Respiratory infections
- h. Emotional Stress

D. NSG

- a. Remove Allergens / or causes that precipitate an attack
 - I. Remove rugs
 - 2. Remove Pets
- b. D/X
 - I. Hyper resonance Lungs
 - A. Hallow sounds on percussion
- c. Minimize Symptoms
 - I. Have them drink If not
 - A. Start an IV
- d. Unless severe Remain Outpatient basis
- e. Drugs
 - I. Corticosteroid
 - 2. Broncho dilators
- f. ** Spacer **
 - 1. Allows the child to breath the nebulizer alot easier

Status Asthmaticus

A. Physiological

- a. Medical Emergency SERIOUS
- b. Child does not respond to treatment
- c. Continued attacks
 - I. Dies if attack is not reduced
- d. Even with Upper respiratory infections causing the asthma
 - I. It's still Asthma

B. NSG

- a. Diligent and rapid treatment Due to seriousness (Death may occur)
- b. Care plan -
 - 1. Individualized to child
 - 2. Goals are measurable
 - 3. Small children its important to have family in that plan of care

Cystic Fibrosis

A. Physiological

- a. Respiratory Disease
- b. Multi system disorder of the exocrine glands
 - 1. Mucus producing gland found especially in the lungs and pancreas
- c. Inheritance Autosomal recessive trait
 - 1. occurs more frequently in caucasians
- d. Organ Involvement
 - 1. Pancreas
 - A. Enzyme that flow from pancreas that digest fats, protein, carbs
 - B. Attack Causes
 - a. Enzyme can't flow to duodenum because of thickness of the mucus
 - b. Causes Impaired nutrition absorptions
 - c. S/SX
 - I. Steatorrhea-
 - A. Large, Bulky, Greasy Stools, Foul Odor
 - B. Causes Big belly
 - C. NSG
 - a. Fat soluble vitamin Given in water base
 - 2. Meconium Ileus
 - A. Newborn
 - 2. Lungs
 - A. S/SX
 - a. Pockets of infections in the bronchio tree
 - b. Pool of Thick secretions in the bronchio tree Obstruct bronchio
 - c. Frequent Respiratory Infections
 - 3. Sweat Glands
 - A. S/SX
 - a. Change in electrolyte of the sweats in the sweats gland
 - I. Baby will taste salty Perspirations
- B. D/X, Lab
 - a. Pancreas
 - I. Stool analysis for fat content
 - A. Analysis of duodenal secretions
 - b. Lung
 - 1. Lung analysis Presence of emphysema, analectesis
 - c. Sweat Gland
 - 1. Sweat testing Normal concentrations of sweat
 - a. 20 mEq / Liter (60 mEq / Liter Considered Cystic Fibrosis)

C. NSG

- a. Diet
 - I. High Caloric, Fat (Low-Moderate)
 - 2. Fat soluble Vitamins Water miscible form
 - 3. Extra Salt (Hot months)
 - 4. Pancreatic enzyme Before Each Meal or Snack (Because of thick Mucus)
- b. Fluid
 - I. Offer fluid Hydrate
 - A. Because of thick mucus
- c. Environment Must be kept in cool Environment
- d. Rest
 - Adequate rest
 - 2. Oxygen
- e. Chest PT "Broncho dilator given before Chest PT (Percussion)
- f. Oral Hygiene
- g. Rivadirin

Pneumonia

- a. Viral
 - I. Under 5 years old
- b. Bacterial
 - I. Over 5 years old

NSG

- a. Hospitalized If they have any predisposing symptoms/syndrome b. Home Treatment