

Independent Learning Assignment

NB Musculoskeletal & Child Respiratory

1. Cystic Fibrosis is characterized by several clinical features. How are the following systems affected? Name some major changes that may occur with the:
 - **Pancreas:** pancreatic insufficiency due to thick, sticky mucus blocking the pancreatic ducts; enzyme deficiency due to blockage of pancreatic ducts leading to lack of digestive enzymes, causing malabsorption of nutrients, CF-related DM due to scarring of the pancreas and damage to beta cells, pancreatitis that causes severe abd pain, n/v
 - **GI system:** abnormal mucus in the intestine leading to bacterial overgrowth and compromised nutrient absorption; thickened bile can block bile ducts, leading to liver inflammation and possibly cirrhosis; the gallbladder can develop gallstones due to concentrated bile, leading to a cholecystectomy; GERD
 - **Pulmonary system:** thick, sticky mucus buildup accumulates in the airways, making breathing difficult and creating a suitable environment for bacterial growth; chronic infections due to mucus-filled airways, leading to inflammation and eventual lung damage; bronchiectasis (permanent widening of airways) due to repeated infections and inflammation; respiratory failure as the disease progresses, leading to lung function decline and possibly respiratory failure in advanced stages
 - **Growth and Development:** malnutrition due to pancreatic insufficiency and malabsorption; delayed puberty due to nutritional deficiencies and chronic illness and disease process on the reproductive tract; reduced bone density due to malabsorption of vitamin D and calcium; fatigue and decreased exercise tolerance due to chronic lung disease and nutritional deficiencies.

2. Name the 3 degrees of Developmental Dysplasia of the Hip. What happens in each degree?:
 - **Hip Instability:** the femoral head is in the acetabulum but can be easily displaced
 - **Subluxation:** the femoral head is partially displaced from the acetabulum
 - **Dislocation:** the femoral head is completely displaced from the acetabulum

3. Name the 3 stages of treatment for clubfoot:
 - **Casting Phase**
 - **Minor surgery (Achilles Tenotomy)**
 - **Bracing Phase**

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Name that Croup Syndrome:

4. I am a nasty, toxic, emergency-causing bacterial infection usually caused by H. influenzae that causes my victims to have inflammation and obstruction of the airway, drooling, high fever, and feel the need to sit in a tripod position for best breathing conditions:

Epiglottitis

5. I cause my victims to wake up suddenly at night, recurrently, and cause stridor, a croupy cough, hoarseness, dyspnea, and restlessness. Cool mist, humidified, and cool air exposure is the treatment, and I may not even cause my victim to need treatment at the hospital:

Spasmodic Croup