

STREPTOCOCCAL PNEUMONIA

- Infection of lung by GrpA beta hemolytic streptococci is secondary to measles, chickenpox, influenza or whooping cough
- GrpB streptococci is an imp cause of resp distress in newborns
- Pathologically it cause interstitial pneumonia
- Tracheobronchial mucosa may be ulcerated and lymph nodes enlarged



CLINICAL FEATURES

- Onset is abrupt with fever, chills, dyspnea, rapid respiration, blood streaked sputum, cough and extreme prostration
- X-ray film shows interstitial pneumonia, segmental involement, diffuse peribronchial densities or an effusion



COMPLICATIONS

- Serosanguineous or purulent empyema
- Pulmonary suppuration (less frequent)
- Bacteremia



PRIMARY ATYPICAL PNEUMONIA

- Etiological agent is Mycoplasma pneumoniae
- Transmitted by droplet infection (winter)
- Uncommon in children below 4yrs
- It involves interstitial tissue with round cell infiltration
- Alveolar space are edematus and mucosa of the bronchiole inflamed and ulcerated
- Obstruction of the terminal bronchioles causes emphysema and atelectasis
- Pleura shows patchy fibrinous exudates



CLINICAL FEATURES

- ▶ IP : 12–14days
- Malaise, headache, fever, sore throat, myalgia and cough
- Cough is dry 1st later associated with mucoid expectoration, may be blood streaked
- Hemolytic anemia can be seen
- X-ray poorly defined hazy or fluffy exudates radiate from hilar regions
- Enlargement of hilar lymph nodes and pleural effusion are reported



DIAGNOSIS

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- Cold agglutinins are elevated
- Demonstration of IgM Abs by ELISA during aute stage
- IgG are seen on compliment fixation test after one week of illness



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Macrolide antibiotics (erythromycin,azithromycin or clarithromycin) or tetracycline (for older children) for 7 to 10 days



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- Pneumonia in young infants
- C/F include spasmodic cough
- H/O purulent conjuctivitis during early neonatal period may be present

FirstRanker.com NEUMONIA Dwy.EirstRanker.com GRWW.FirstRanker.com NEGATIVE ORGANISMS

- Etiological agents are E.coli Klebsiella Pseudomonas
- Affects small children or children with malnutrition and deficient immunity
- X-ray shows unilateral or bilateral consolidation



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- IV third generation cephalosporins with or without an aminoglycosides is recommended for 10-14 days
- Ceftazidime or piperacillin-tazobactam are effective in patients with pseudomonas infection



VIRAL PNEUMONIA

- Respiratory syncytial virus is the imp cause in infants under 6months of age
- At other ages, influenza, parainfluenza, and adenovirus are common
- Features of consolidation are not present
- Radiological signs consists of perihilar and peribronchial infiltrates

FirstRanker.com NGESTION OF WAFirstRanker.com HYDROCARBONS

- Kerosene exerts its toxic effects on lungs and CNS
- Poorly absorbed from GIT
- C/F of hydrocarbon pneumonia are cough, dyspnea, high fever, vomiting, drowsiness and coma
- X-ray films shows ill defined homogeneous or patchy opacities



LOEFFLER SYNDROME

- Due to larvae of many nematodes
- Some cases may be due to drug reaction to aspirin, penicillin, sulfonamide or imipramine
- C/F are cough, low fever, feeling unwell, scattered crepitations
- Eosinophilia
- X-ray shows pulmonary infiltrates varying size



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ACUTE RESPIRATORY TRACT INFECTION (ARTI) CONTROL PROGRAM



- Acute lower respiratory tract infection is a leading cause of mortality in children below 5yrs of age
- Clinical criteria for diagnosis of pneumonia include rapid respiration with or without difficulty in respiration
- Rapid respiration is defined as respiratory rate more than 60,50 or 40 per minute in children below 2months of age ,2 months to 1 yr, 1 to 5yrs respectively

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- The WHO recommends that in a primary care setting if a child between 2months and 5yrs of age presents with cough he should be examined for rapid respiration, difficulty in breathing, presence of cyanosis or difficulty in feeding
- If the respiration is normal and there is no chest indrawing and difficulty in feeding, the patient is assessed to be having an upper resp tract infection and can be managed at home



- If the child has rapid respiration but there is no chest indrawing he/she is suffering from pneumonia and can be managed at home with oral cotrimoxazole for 5days
- Patients with chest indrawing are considerd to have severe pneumonia and treated with parenteral penicillin
- Severe chest indrwaing or cyanosis indicates very severe pneumonia and treated in hospital with IV penicillin with gentamycin and supportive care

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In children below 2months of age the presence of :fever ,convulsions ,abnormally sleepy, stridor in a calm child, wheezing, not feeding, tachypnea, chest indrawing, altered sensorium, central cyanosis, grunting and distended abdomen indicates severe d/s and are admitted to hospital and treated with parenteral ampicillin and gentamycin along with supportive care

FirstRanker.com Table 14.4: WHO clinical classification for treatment in children aged 2 mo to 5 yr with cough or difficult breathing Where to treat Therapy Classification Signs, symptoms Home Home remedies. No pneumonia Cough or cold No fast breathing, chest indrawing or indicators of severe illness Home Cotrimoxazole or amoxicillin Pneumonia Increased respiratory rate ⊈ mo-old: ≥60 per min 2-12 mo-old: ≥50 per min 12-60 mo-old: ≥40 per min Hospital IV/IM penicillin Severe pneumonia Hospital IV penicillin + gentamicin Chest indrawing Very severe pneumonia Cyanosis, severe chest indrawing, inability to feed