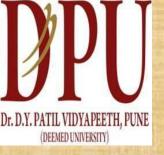




Chronic Cough – An Unusual Presentation

Dr Sourabh Jain Department of Respiratory Medicine

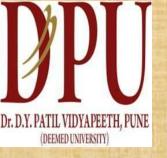




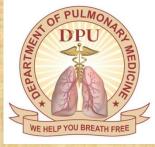
A 72 years old male from Pune, non smoker, with no co-morbidities

Chief Complaints :

Chronic cough with scanty mucoid expectoration – 6 months



H/O Present Illness

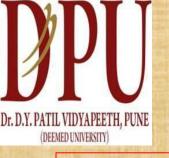


H/O – Postural (supine) and diurnal variation (early morning)- Present

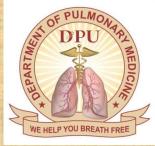
No history of dyspnea, wheezing, hemoptysis, fever, loss of appetite and weight loss

No history suggestive of aspiration, choking

H/S/O- Allergic Rhinosinusitis > 25 yrs



Managed by private practitioner



Inhaled corticosteroids (Budesonide 200mcg) + Long acting β_2 agonists (Formoterol 6mcg) – 1puff BD

22

Antibiotics (Tab Amoxicillin + clavulanic acid 625mg TDS- 7days & Azithromycin 500mg OD -3days), f/b tab Cefixime 200mg BD -7days

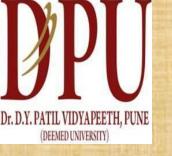
Given tab Prednisolone 40mg OD -7 days- thrice in last 6 months

No significant response

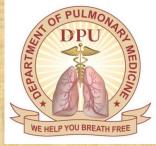


He reported to Respiratory Medicine OPD in January 2017 with persistence of presenting symptoms & no fresh symptoms





General examination



No – Pallor, Icterus, Cyanosis, Clubbing, Lymhpadenopathy or Edema

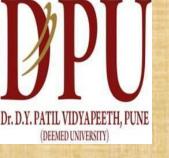
RR - 14/min

PR – 88/min

SPO2 – 97 %

R S – **B**/**L** air entry equal, no adventitious sounds

Rest systemic examination - NAD



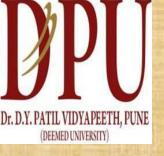
Investigation



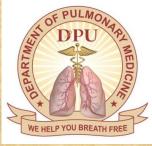
CBC and metabolic parameters were within normal limits.

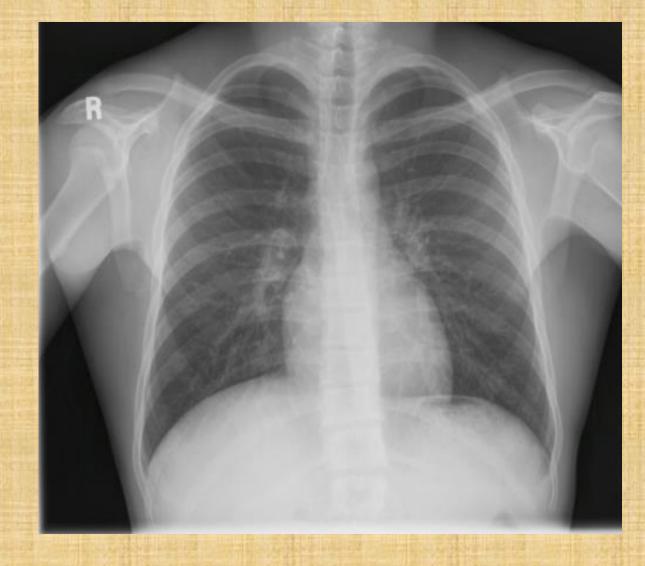
Sputum for Gram stain – Gram +ve cocci seen in short chains, ZN stain – no AFB seen and GenXpert-MTB-RIF – MTB not detected

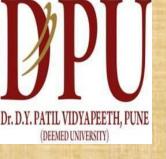
ECG – Normal study



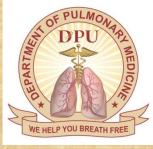
Chest X-ray





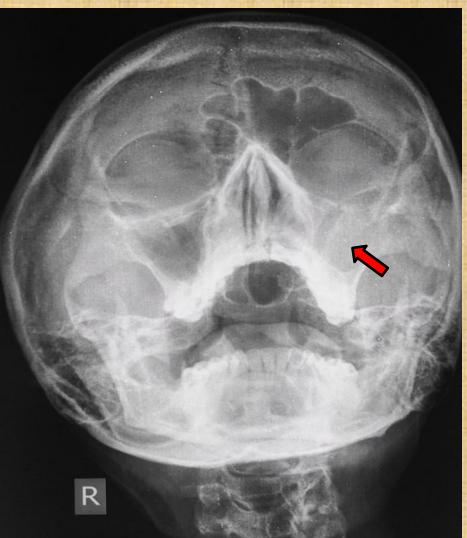


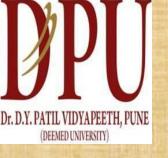
X-ray PNS



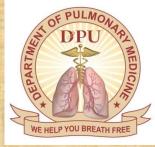
Left maxillary sinusitis





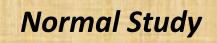




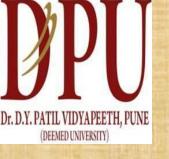


FEV1 – 1.61ml (109%) FVC – 1.61ml (127%)

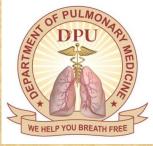
FEV1/FVC - 90ml(111%)







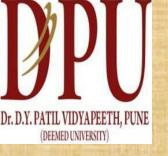
Clinical Diagnosis



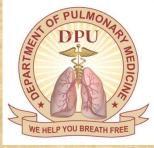
Cough Variant Asthma

Allergic Rhinosinusitis





Management

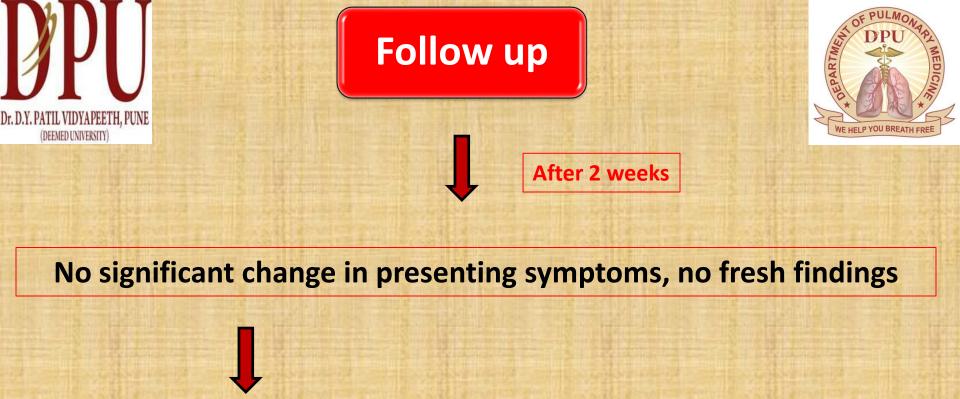


Inhaled corticosteroids (Budesonide 400mcg) & Long acting β₂ agonists (Formoterol 12mcg) - 2 puffs BD with transpacer

Fluticasone furoate (27.5mcg) nasal spray 2puffs OD in both nostrils

Tablet Levocetrizine 10mg HS

Domperidone + Rabeprazole OD before meal.

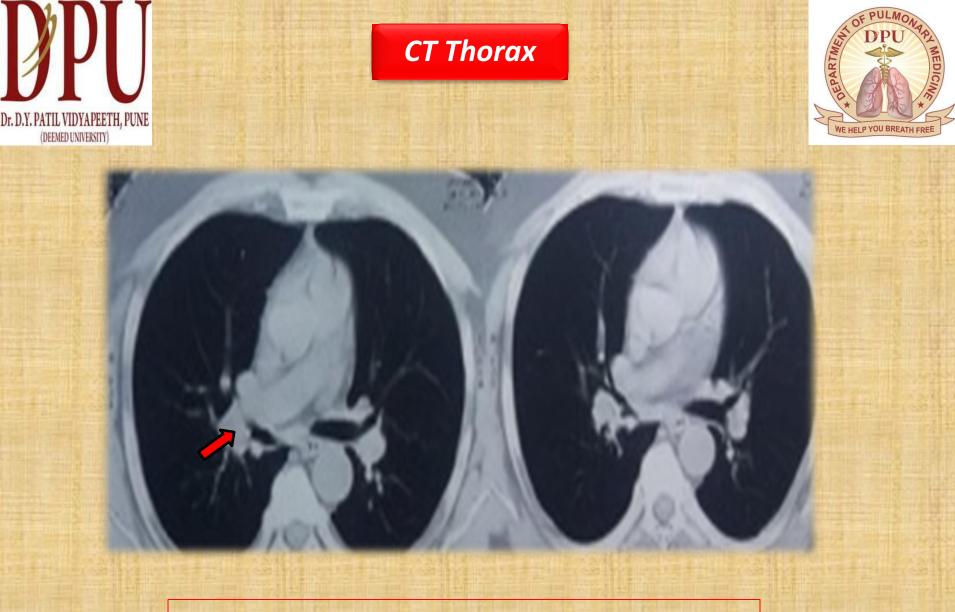


Oral corticosteroids Methylprednisolone 40mg OD-7days

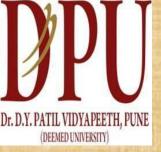


Partial relief of symptoms



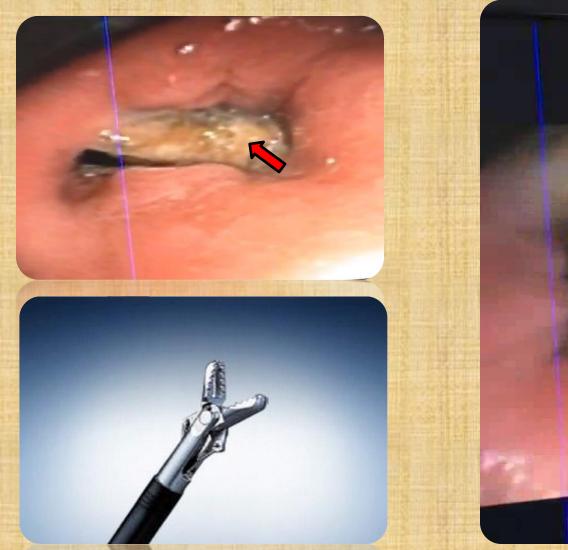


Narrowing- Right lower lobe bronchus

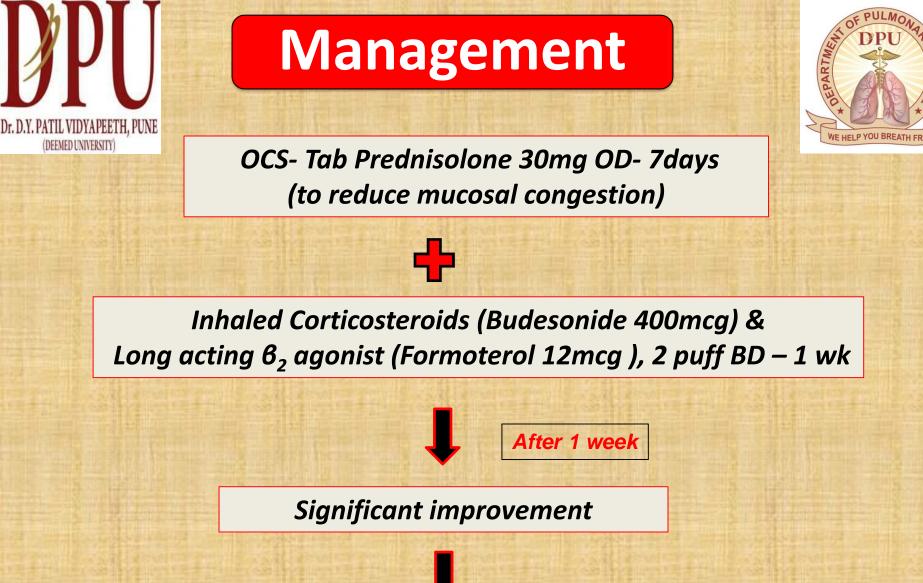


Video Bronchoscopy

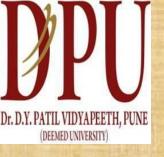








Inhaled Corticosteroids (Budesonide 400mcg) & Long acting β_2 agonist (Formoterol 12mcg), 1 puff BD - 4 weeks.



Discussion



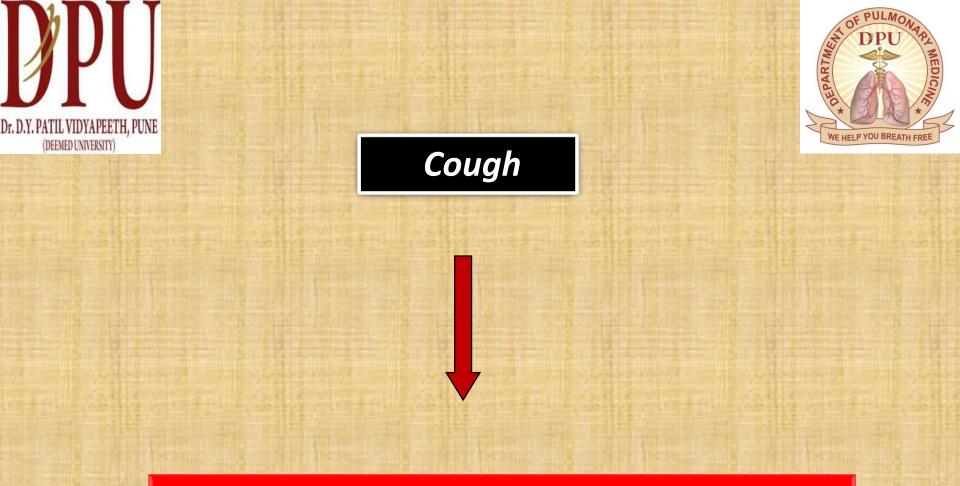
Classification of Cough

Acute - 3 wks

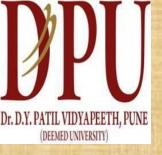
Subacute - 3-8 wks

Chronic > 8 wks

<u>Reference</u>- Smith JA, Woodcock A. Chronic cough. N Engl J Med 2016;375:1544-1551



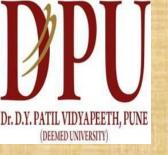
Physiological Protective Airway Reflex



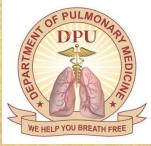


But Chronic Cough can at times prove to be a

Diagnostic & Therapeutic Challenge



Chronic cough- Aetiology

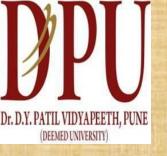


(Non smoker, No ACEI, hemoptysis/dyspnea/wheeze/constitutional symptoms, HIV/AIDS)

Upper Airway Cough Syndrome/ PNDS Bronchial Asthma / Cough Variant Asthma



Pathogenic triad



Foreign body

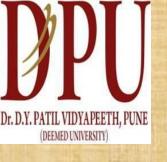


Foreign body aspiration (FBA) - commoner in children

FB aspiration mostly presents as acute emergency with cough

In adults, however, foreign-body aspiration can be tolerated and remain undetected for a long time

Delayed diagnosis and subsequent delayed treatment is associated with serious and sometimes fatal complications

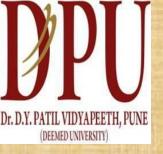




Food items are aspirated most commonly – Hard Food, Peanut, Grapes, Beans, Seeds

Foreign-body aspiration is often a serious medical condition demanding timely recognition and prompt action

80 percent of cases occur in patients younger than 15 years of age, with the remaining 20 percent presenting over the age of 15 years

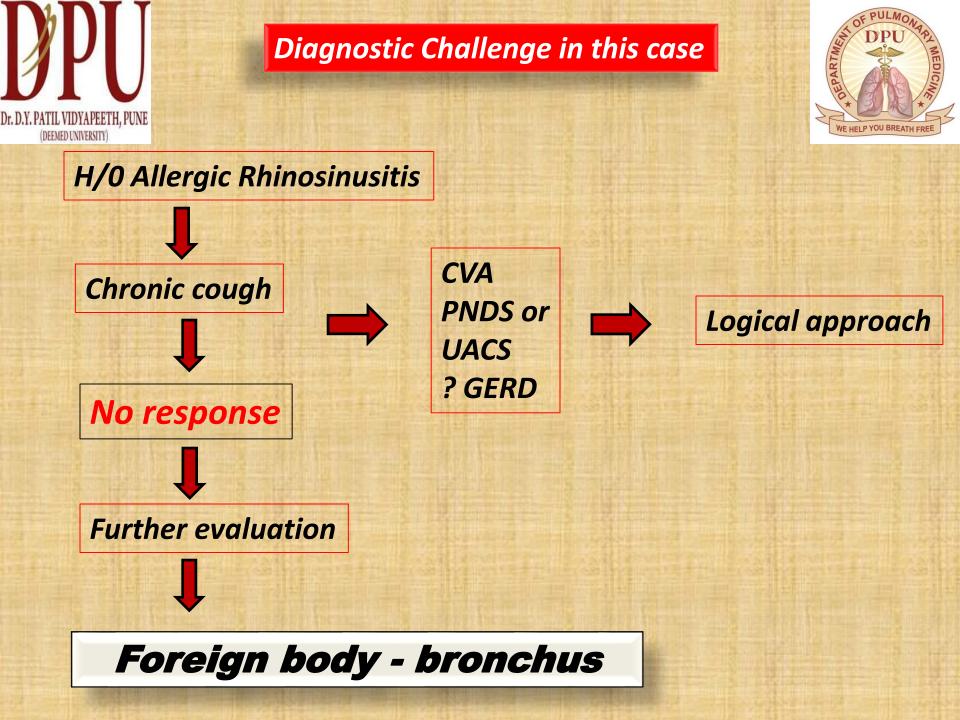




The most common site - right main bronchus because of its straighter angle of origin from the trachea

The main symptoms are episodes of coughing, intermittent or continuous dyspnea with cyanosis, pain, and intermittent hoarseness

Flexible and rigid bronchoscopy have become the cornerstone of both the diagnosis and treatment of patients with suspected FBA





In situations where chronic cough is being managed with a correct clinical diagnosis & there is an inadequate response to optimal therapy

