

Tuberculosis

General Information

- Name: XYZ
- Age: 14 years
- Sex : Male
- Address: Ahmednagar
- Informant: Self and father
- DOA: 28.05.2022
- DOE: 28.05.2022

Chief Complaints

- Fever from 2 weeks
- Cough from 2 weeks
- Chest pain from 1 week
- Vomiting from 1 week

History of Presenting Illness

- Patient was apparently normal 14 days back when he complained of fever, moderate grade, intermittent type, recurrent every 2-3 times daily, associated with evening rise of temperature, recovering partially with medication.
- Patient also complained of cough since 14 days, sudden onset, gradually progressive in nature, associated with sputum production which is moderate amount, yellowish in colour, mucoid in consistency, non blood tinged, non foul smelling, cough is present throughout the day. No relieving or aggravating factor.

History of Presenting Illness

- Patient complained of chest pain on the left side from 1 week which was insidious in onset, gradually progressed over 1 week, sharp type of pain, aggravated on deep inspiration, coughing and on sleeping on that side of the chest, sleeping on the opposite side.
- Also complained of vomiting from 1 week, 1-2 episodes/day, usually after taking food, containing food particles and sputum, non-projectile, non-bilious, non-blood-tinged. It is also associated with swallowing difficulty.
- No history of pain abdomen, difficulty in passing stools
- No history of weight loss
- No history of headache, convulsions
- No history of any bony tenderness or deformity

Past History

- Recurrent episodes of fever, abdominal pain and vomiting at the age of 7
- Recurrent episodes of fever, abdominal pain and vomiting at the age of 10. Epigastric biopsy revealed non-specific adenitis. Started on ATT for 6 months.
- Reposted to OPD at the age of 12 with oral candidiasis and LN Biopsy revealed TB Adenitis. Started on ATT for 6 months and FNAC revealed cold abscess.

Family History

- No history of TB / chronic illness in the family members.
- Born out of second degree consanguineous marriage.

Dietary history

- Diet was 40 percent deficient in both protein and carbohydrate

Developmental History

- Studying in the 6th standard with good scholastic performance

Socioeconomic History

- Belongs to the lower middle class, over crowding present

Summary

General Physical Examination

Vitals

- HR: 81 bmp good volume, all central and peripheral pulses felt
- RR : 19 cpm
- Temperature: 100.2 degree Fahrenheit
- SPO2 : 98 % under room air
- BP : 110/ 70 mmHg left upper limb in supine position

Anthropometry

Head to Toe Examination

- Generalised lymphadenopathy is seen in bilateral cervical lymph nodes and in the inguinal lymph nodes.
- Mouth examination revealed white lesions on inner cheeks and tonsils.
- No pallor, icterus, cyanosis, or clubbing is seen.

Respiratory System

- **Inspection**
- Trachea appears central in position.
- Prominent lower rib cages.
- Bilaterally symmetrical chest movements.

Respiratory System

Palpation

- Trachea is central in position
- Chest expands symmetrically on both sides (cc: 62cm in expiration, inspiration 65cm, chest expansion : 3cm)
- Right hemithorax: 31cm
- Left hemithorax: 31cm
- Vocal fremitus: reduced in left inframaxillary area.

Respiratory System

Percussion

- Dull note was present in left infra axillary

Auscultation

- Bilateral normal vesicular breath sounds air entry decreased on left mammary and infra axillary

Vocal resonance

- Decreased in left infra axillary region

Other systems

- CVS: s1 and s2 heard, no murmur
- Abdo: Soft non-tender and no organomegaly
- CNS: NFNF

Differential Diagnosis

- Chronic granulomatous conditions, TB, Leprosy, sarcoidosis,
- AD hyper IGE syndrome

Investigation

- ESR - elevated.
- Viral markers - negative.
- Genetic testing for primary immunodeficiency disorder which revealed Interleukin-12 (IL12RB1) gene deficiency, located on chromosome 19p13.1, with autosomal recessive inheritance.

Confirmatory diagnosis

- Mendelian susceptibility to Mycobacterial Disease with IL12RB1 deficiency.