

**CHRONIC OBSTRUCTIVE PULMONARY
DISEASE (COPD)**

SKELETON of Presentation Skills
STATION-1 (RESPIRATORY)

CASE 1.

**Chronic Obstructive Pulmonary Disease (due to Smoking)
with Bronchiectasis with Respiratory-Failure without Cor-
Pulmonale with Secondary Polycythaemia**



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CASE 1. Chronic Obstructive Pulmonary Disease (due to Smoking) with Bronchiectasis with Respiratory-Failure without Cor-Pulmonale with Secondary Polycythaemia

1. My clinical diagnosis of this gentleman is **Chronic Obstructive Pulmonary Disease** with **Bronchiectasis**, evidence by the Tracheal-Central, Chest Expansion is =Reduced Bilaterally-Symmetrically, **Increased Anterior-Posterior Diameter**, Percussion-Note is= Hyper-Resonant, Breath-Sound =Vesicular-with-Prolong-Expiration with Expiratory-Rhonchi.



Increased Anterior-Posterior Diameter

2. Additionally, he has got **Coarse Inspiratory Crackles, Changes with Coughing.**
3. Along with that, I have found **Nicotinic Staining** and **Slight Clubbing Changes.**

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Nicotinic Staining and **Slight Clubbing Changes**.

4. Also he has got **Secondary Polycythemia** and also evidence of **Carbon-Di-Oxide Retention**, and also has got **Leg Edema**.



Secondary Polycythemia

5. Putting all them together, my clinical diagnosis of this gentleman is **Chronic Obstructive Pulmonary Disease** and **Bronchiectasis**, which is complicated by **Respiratory Failure**, may be the **Type-2-Respiratory-Failure**, may be the evidences of **CO₂ Retention**.

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6. I would like to confirm the diagnosis with **Bedside ABG**, whether he has got the **Respiratory Failure**, but he has got the **Evidence of CO2 Retention**.
7. Also this **Chronic Lung Disease** in form of **Chronic Obstructive Pulmonary Disease** and **Bronchiectasis** is complicated by **Heart Failure**, evidenced by **Leg Edema** that is, **Cor-Pulmonale**.
8. Also like to add, this gentleman having **Secondary Polycythemia** evidences and **Slight Clubbing** and **Nicotinic Staining**, that means he needs **Long-Term-O2-Therapy** but need to confirm with doing the **ABG**.
9. I would like to confirm the diagnosis doing the **CBC** to get confirm **Polycythaemia** and also the **ABG** report based on that, we will determine the patient may need needs **Long-Term-O2-Therapy** or not.
10. I would like to do **Chest X-Ray** to confirm the changes consistent with **Chronic Obstructive Pulmonary Disease**, and also to confirm the diagnosis of **Bronchiectasis** to do the **HRCT-Chest** and also do the **PFT**- will give the idea about the levels and severity of **Chronic Obstructive Pulmonary Disease** based on **FEV1** reports and also I would like to see the **Pulmonary Function Status** of the gentleman.

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CASE 2.

**Chronic Obstructive Pulmonary Disease with Pulmonary
Fibrosis with Respiratory-Failure with Cor-Pulmonale**



SKELETON of Presentation Skills
STATION-1 (RESPIRATORY)

**CASE 2. Chronic Obstructive Pulmonary Disease with
Pulmonary Fibrosis with Respiratory-Failure
with Cor-Pulmonale**

1. My clinical diagnosis of this gentleman is **Chronic Obstructive Pulmonary Disease**, as evidenced by **Chest Expansion= Reduced-Symmetrically-Bilaterally, Percussion-Note= Hyper-Resonant** along with the **Vocal Resonance** and **Breath Sound= Vesicular-with-Prolonged-Expiration-with-Expiratory-Rhonchi**.



AP-Diameter-Increased

2. He also has got **Pulmonary Fibrosis**, evidenced by **Bilateral-Fine-End- Inspiratory-Crackles** predominantly in the Both Lower Zones and also the Chest Expansion, Percussion Note, Vocal Resonance which are very consistent with **Pulmonary fibrosis**
3. Along with that the **Pulmonary Fibrosis** is complicated by **Respiratory Failure**.
4. I have seen **C02 Retention Findings** like, **Warm Hands-Palmar Erythema-Bounding Pulses**. I would like to do **ABG** to see whether he is having **Respiratory Failure** on not.

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5. His **Chronic Obstructive Pulmonary Disease** is complicated by **Cor-Pulmonale** evidenced by **Leg Edema**.



Leg Edema = Cor-Pulmonale

6. I have not found any stigmata of **Steroid** evidence at the bed side.
7. So putting all them together, my clinical diagnosis of this gentleman is **Chronic Obstructive Pulmonary Disease** along with **Pulmonary Fibrosis** but the **Predominant Picture** is **Chronic Obstructive Pulmonary Disease** that is the **Obstructive Airway Disease**, which is complicated by **C02 Retention Findings** and also **Cor-Pulmonale** and he is not on **Steroid** at this moment.
8. I would like to confirm my diagnosis by **Chest X-Ray** to see **Obstructive Changes** like **Hyper-Inflated Lungs**.
9. **Secondly**, I would like to do **CBC** to looking for **Polycythemia** to get the idea that we need to put him on **Long Term O2 Therapy** or not.
10. **Thirdly**, I would like to do **Full Spirometry**, where the **FEV1/ FVC Ratio=Less Than 70%** will indicate **obstructive airway disease** and **More Than 70%** will signify **Restrictive Airway Disease**.

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11. I would like to confirm my diagnosis by doing **HRCT-Chest** to see any **Fibrotic Changes** and extent of damage of the lung.

*****Ss-Tips:**

Always try to say the underlying aetiology of the Lung Diseases; Like,

COPD

COPD due to Smoking

COPD due to A1ATD

COPD due to Occupational Chemical Exposure (Clues: Instruction Board=H/O Chemical Exposure)

Pulmonary Fibrosis

Pulmonary Fibrosis due to Drugs

Pulmonary Fibrosis due to Occupational Exposure

Pulmonary Fibrosis due to Connective Tissue Disorders

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CASE 3.

**Chronic Obstructive Pulmonary Disease (Emphysema)
(due to Smoking) with Secondary Polycythaemia with
Bilateral Bullectomy without Respiratory-Failure without
Cor-Pulmonale**



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CASE 3. Chronic Obstructive Pulmonary Disease (Emphysema) (due to Smoking) with Secondary Polycythaemia with Bilateral Bullectomy without Respiratory-Failure without Cor-Pulmonale

1. My clinical diagnosis of this elderly man is **Chronic Obstructive Pulmonary Disease** in the form of **Emphysema** as evidenced by reduced **Chest Expansion, Percussion Note=Hyper-Resonant, Breath Sound** is diminished or reduced along with **Vesicular With Prolong Expiration with Expiratory Rhonchi** with no added sound and also **Vocal Resonance** is diminished . The **Trachea** is Centrally Placed.
2. This gentleman underwent **Bilateral Bullectomy**, as evidenced by **Bullectomy** or the **Thoracotomy-Scar**.



Right sided **Bullectomy**

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Left sided **Bullectomy**

3. And the **Chronic Obstructive Pulmonary Disease**, underlying **Aetiology** is **Smoking**, as evidenced by **Nicotinic Staining** that I have found.



Smoking

4. This **Chronic Obstructive Pulmonary Disease** is not complicated by **Respiratory Failure** right at this moment as absence of **Cyanosis** or any **CO2 Retention Findings**
5. Also this gentleman has got **Polycythemia** that is **Secondary Polycythemia**.

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Congested Blood vessels = **Secondary Polycythemia**

6. This gentleman has no **Steroid Stigmata** present at the bedside
7. His **Chronic Obstructive Pulmonary Disease** is not complicated by **Cor-Pulmonale** as absence of **Leg Edema**.
8. Putting all them together, my clinical diagnosis of this gentleman is **Chronic Obstructive Pulmonary Disease** in form of **Emphysema** which is not complicated by **Respiratory Failure** or **Cor-Pulmonale** and he underwent **Bilateral Bullectomy** and the underlying aetiology is **Smoking**.

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CASE 4.

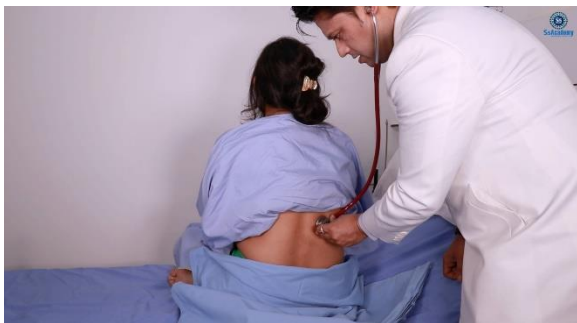
**Chronic Obstructive Pulmonary Disease due to A1ATD
(ALPHA-1-ANTI-TRYPsin DEFICIENCY) without
Respiratory-Failure without Cor-Pulmonale**



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CASE 4. Chronic Obstructive Pulmonary Disease due to A1ATD (ALPHA-1-ANTI-TRYPsin DEFICIENCY) without Respiratory-Failure without Cor-Pulmonale

1. My clinical diagnosis of this young lady is **Chronic Obstructive Pulmonary Disease** in form of **Emphysema** especially the **Lower Lobe Emphysema** as evidenced by reduced **Chest Expansion** in the **Both Lower Zones**, **Percussion note** is **Hyper Resonant**, **Breath Sound** is **Vesicular with Prolong Expiration** with **Expiratory Rhonchi** with **No Added Sound**, **Increased Vocal Resonance** and the **Trachea** is **centrally** placed.



Lower Lobe Emphysema = Breath Sound - Vesicular with Prolong Expiration with Expiratory Rhonchi

2. This **Chronic Obstructive Pulmonary Disease** is not complicated by **Respiratory Failure** as absence of **Cyanosis** and **CO₂ Retention** findings.
3. Also not complicated by **Right Heart Failure** or **Cor-Pulmonale** as absence of **Leg edema**, but I would like to do **Cardio Vascular System** examination to exclude

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features of **Pulmonary Hypertension** and **Right Heart Failure**.

4. She is not on **Steroid** as absence of any bedside evidences of steroid use.
5. Putting all them together, my clinical diagnosis of this young lady is **Chronic Obstructive Pulmonary Disease** in the form of **Lower Lobe Emphysema** without **Respiratory failure** or **Cor-Pulmonale** and she is not on **Steroid** and the underlying aetiology of this **Lower Lobe Emphysema** is **A1ATD (ALPHA-1-ANTI-TRYPsin DEFICIENCY)**.
6. I would like to confirm the diagnosis by doing **Chest X-Ray** for **LOWER LOBE EMPHYSEMA**.
Also I would like to do **CBC** to look for **Polycythemia** or **Neutrophilic Leukocytosis** for any **Infection** evidences.
And also I would like to do **FEV1/FVC ratio** look for grading of **COPD** especially the **Full Spirometry** that will give the idea of grading and severity of lung disease.

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CASE 5.
PICKWICKIAN SYNDROME /OBESITY HYPOVENTILATION SYNDROME (Obstructive Sleep Apnoea with Hypercapnia) with Cor-Pulmonale with Secondary Polycythaemia

