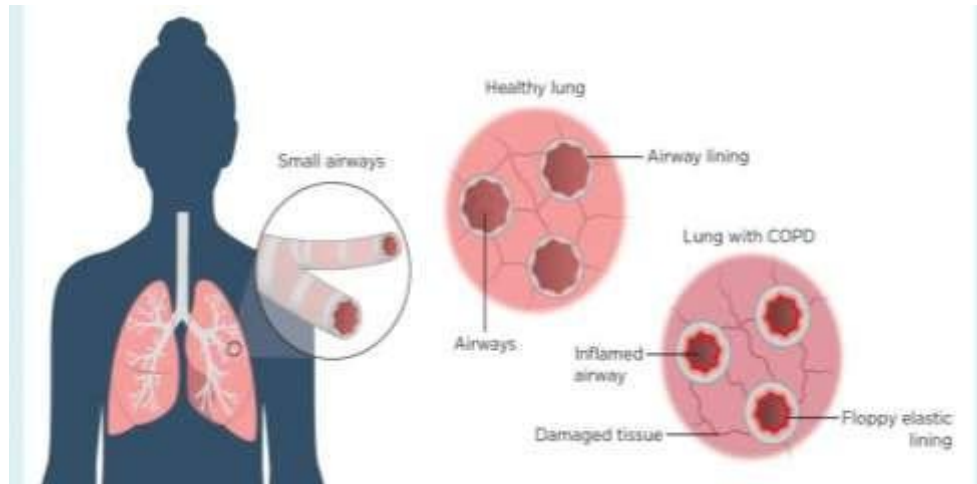


# Case presentation on CHRONIC OBSTRUCTIVE PULMONARY DISEASE



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# DEFINITION:

- ▶ COPD is a common preventable and treatable disease is characterized by obstruction of flow of air through the airways and out of the lungs Associated with an abnormal inflammatory response of the lungs to noxious particles or gases which is progressive and irreversible.

## EPIDEMIOLOGY:

COPD kills more than 3 million people every year making it the 4<sup>th</sup> largest cause of death in the world

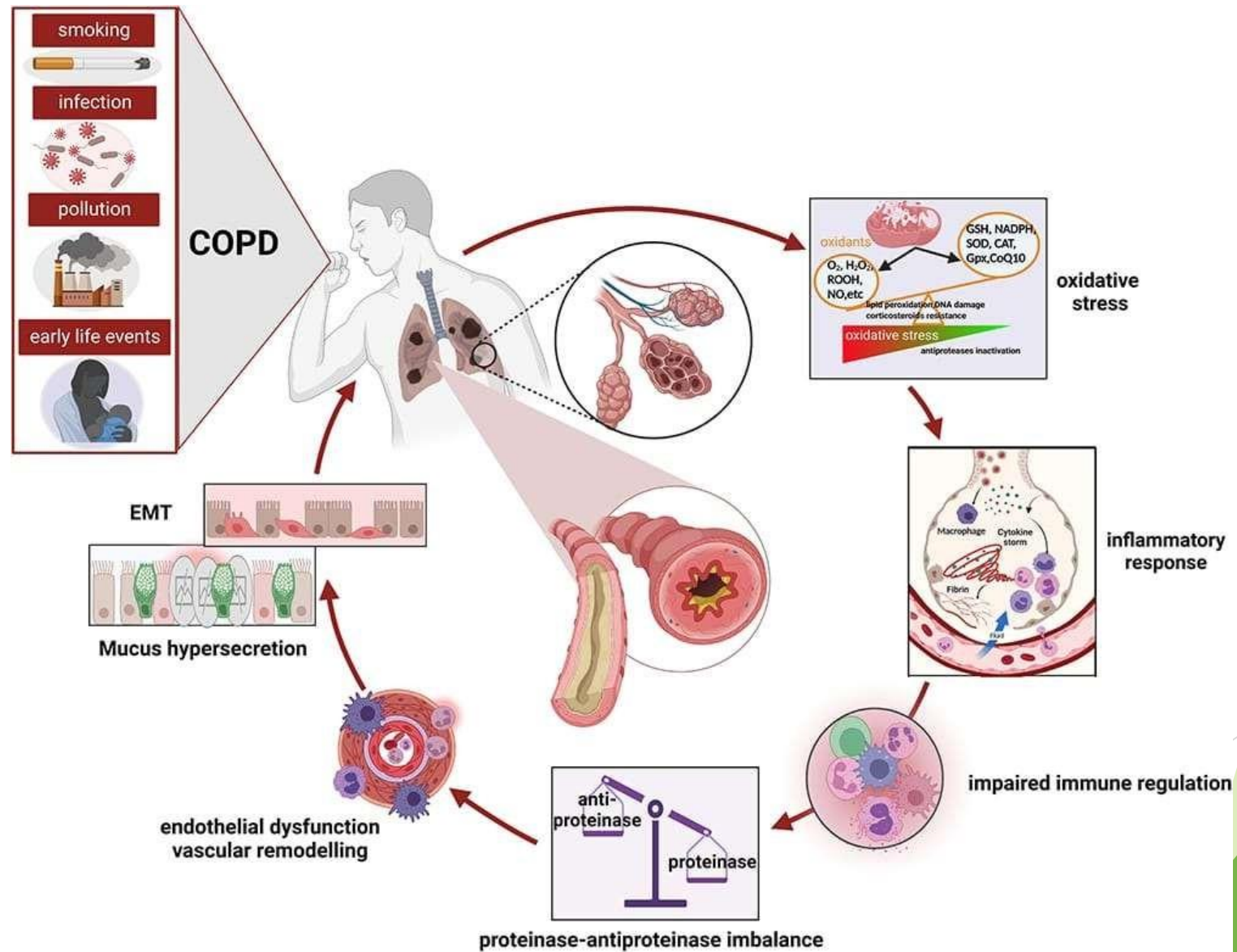
## ETIOLOGY:

- ❖ Age
- ❖ Smoking
- ❖ exposure to air pollution
- ❖ Alpha-1antitrysin deficiency Infections

# CLINICAL MANIFESTATION

- ❖ breathing difficulty
- ❖ chronic cough with sputum
- ❖ chest tightness
- ❖ wheezing fatigue

# pathophysiology



# DIAGNOSIS

- ❖ Medical history collection
- ❖ chest x-ray
- ❖ LFT
- ❖ ABG gases
- ❖ CBP

# Case presentation

# DEMOGRAPHICS DETAILS:

- ❖ Name: xyz
- ❖ Age:62 years
- ❖ Gender: Female
- ❖ Department : FMW
- ❖ DOA:1\11\2023
- ❖ IP NO:31217



# Chief complaints on admission:

- c/o SOB ,orthopnea since 3 days
- c/o pedal edema on soft
- No c/o chest pain
- c/o cough productive
- No c/o decreased urine output

## Past medical history:

- H/o similar episodes in the past

# Physical examination:

❖ A 62 year old female patient was conscious ,oriented .

## VITAL SINGS:

PR:133bpm

BP:175/80mm/Hg

SPO2:92% RA

## SYSTEMIC EXAMINATION:

CVS :S1S2+

RS: Dysponoea +  
wheeze+

PA : Scaphold

# Lab investigations:

PARAMETER S	OBSEVERD VALUES	NORMAL VALUES
Hb%	4.4gm/dl	11-16gm/dl
Total count	11,500	4000-11000
Polymorphs	93%	45-75%
Lymphocyte s	04%	20-45%
AEC	550 cells/microlitre	30-250 cells/microlitre
Platelet count	3.1 lakhs/cumm	1.5-4.5 lakhs/cumm
RBS	150mg/dl	70-110mg/dl
Serum creatinine	0.8	0.4-1.4mg/cl

# MEDICATION CHART

DRUG	DOSE	ROUTE	FREQUENCY	DAY WISE
O2 inhalation	2-4 lit/min			1-3
INJ CEFTRIAZONE	1gm	IV	BD	1-3
INJ PANTOP	40mg	IV	OD	1-3
NEB-ASTHALIN BUDECO RT			4 <sup>th</sup> hourly 12 <sup>th</sup> hourly	1-3
INJ HYDROCORT	100mg	IV	TID	1-3
INJ LASIX	40mg	IV	BD	1-3
SYP AMBROXYL	5ml	p/o	TID	1-3
Tab PCT	650mg	P/o	TID	1-3
INJ IRON SUCROSE	1 Amp in 100ml NS	IV	OD	2-3
Tab AZITHROMYCIN	500mg	p/o	OD	2-3

## Progress chart:

DAY -1	Patient admitted with complaints of SOB, Orthopnea ,pedal edema and productive cough
DAY -2	Similar complaints and fresh complaint of myalgia. BP:110/60 PR:103bpm SPO2:95%
DAY-3	No fresh complaints. BP:118/60 PR:116bpm SPO2:95%

Confirmatory diagnosis :

**CHRONIC OBSTRUCTIVE PULMONARY  
DISEASE**

# ***SOAP NOTES***

# SUBJECTIVE EVIDENCES:

A 62 Years old female patient was admitted in female medical ward with chief complaints of SOB, orthopnea since 3 days ,pedal edema and productive cough.

# OBJECTIVE EVIDENCES:

As the patient was conscious and coherent lab investigations were performed which shows decreased levels of haemoglobin and increased levels of total count and polymorphs.



# ASSESSMENT

Based on subjective and objective evidences the patient was dignosed as found to be

**CHRONIC OBSTRUCTIVE PULMONARY DISEASE**

## PLAN:

DRUG	DOSE	ROUTE	FREQUENCY	INDICATIONS
O2 inhalation	2-4 lit/min			
INJ CEFTRIAXONE	1gm	IV	BD	Treat bacterial infection
INJ PANTOP	40mg	IV	OD	Decrease acid secretion
NEB-ASTHALIN BUDECORT			4 <sup>th</sup> hourly 12 <sup>th</sup> hourly	
INJ HYDROCORT	100mg	IV	TID	Reduce swelling ; mucus production
INJ LASIX	40mg	IV	BD	Treat fluid retention
SYP AMBROXYL	5ml	p/o	TID	Prevent acute exacerbation of COPD
Tab PCT	500mg	P/o	TID	
INJ IRON SUCROSE	1 Amp in 100ml NS	IV	OD	Treat iron deficiency anemia
Tab AZITHROMYCIN	500mg	p/o	OD	Treat certain bacterial infection

# PATIENT COUNSELLING

## REGARDING DISEASE:

COPD is a lung disease that obstruct airflow and disturbs the normal breathing .this is normally due to smoking and other injections. common symptoms include chronic cough ,sputum production and SOB.

# Regarding medications

- Inj.ceftriaxone: used to treat infections caused by bacteria.
- Inj Pantop: used to decrease acid secretion.
- Neb Asthalin :fast acting brochodilator  
Budecort: used to relive symptoms of COPD.
- Inj Hydrocort : used to treat certain medical conditions such as inflammation ,  
severe allergic reactions.
- Inj Lasix: used to treat fluid retention .
- syp Ambroxol: indicated for secreolytic therapy in bronchopulmonary disease with  
abnormal mucus secretion .
- Inj iron sucrose : used to treat iron deficiency anemia.
- Tab azithromycin: used to treat certain bacteria and reduces inflammation in the lungs.

# Regarding Life modifications

- ❖ Do not exposure to allergens .
- ❖ When working in a hazardous environment, wear a respirator mask,
- ❖ use air filters at work place .
- ❖ Drink plenty of fluids .
- ❖ Avoid oily , junk and spicy foods.
- ❖ Avoid cool water and cool drinks.
- ❖ Avoid OTC medications.
- ❖ Do not exposure to chemicals and air pollution .
- ❖ Avoid exposure to cold climate.
- ❖ Eat fresh fruits, vegetables , meat , sea food etc.

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***THANK YOU***