GRANULOMATOSIS WITH POLYANGIITIS

WITH INITIAL PRESENTATION AS ILD.

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HISTORY

A 36 year female patient presented to us with complaint of shortness of breath for 3-4 weeks which was initially on exertion but progressed to dyspnea at rest over a duration of 3 weeks, associated with dry cough.

- No history suggestive of orthopnea/PND
- No history of pedal edema, palpitations
- No complaint of fever
- No complaint of cough
- No complaint of hemoptysis
- No complaints of increased sweating, bleeding from any site
- No weight loss
- No decreased urine output
- No joint pains, rashes
- No history suggestive of raynauds phenomenon, intermittent claudication

PAST HISTORY

- Patient is known case of hypothyroidism and type 2 diabetes mellitus (on treatment)
- No history of any prior admissions or previous medical interventions

PERSONAL HISTORY

- Mixed diet pattern
- Normal sleep awake cycle
- Chullah user for 20-25 years
- Non alcoholic
- Normal bladder/bowel habits

FAMILY HISTORY

No similar complaints in family

EXAMINATION

- Conscious, oriented to time place and person
- PR 108 bpm, regular, good volume, no radioradial, no radiofemoral delay
- BP 126/72 mm Hg in right arm In sitting position
- RR 22/min, with use of accessory muscles
- temp- 98.1 F
- Sp02 81% on Room air

- No pallor
- No icterus
- No cyanosis
- No lymphadenopathy
- No pedal edema/facial puffiness
- JVP raised
- No clubbing
- No thyroid swelling

• CVS:s1 s2 were heard with NORMAL apex with loud p2

Resp: bilateral fine crepts in bilateral(left>right) infrascapular, and infra-axillary area
 axillary area

P/A soft non tender

PROVISIONAL DIAGNOSIS

Hypothyroidism with type 2 diabetes mellitus with

- I. LRTI
- 2. Pulmonary embolism
- 3. ILD with pulmonary hypertension

Blood investigation	
Hb	10.1
Hct	31.6
TLC	5800
DLC	82/13/4/1
PLT	1.57
TBil	0.6
urea	35

CXR PA findings: Bilateral lower zone opacity

with central trachea

Ecg- right axis deviation with sinus tachycardia

Urm- normal

D dimer-2400

RAT negative

ABG analysis

PH 7.32

PO2 56

PCO2 38

HCO3 23.2

2D ECHO – dilated RA/RV/ moderate PAH/ mild RV dysfunction
 ? Pulmonary embolism

CECT chest plus CTPA planned

ANA profile sent

-	Measurements			260'		
- 8	LAVAO 2.8/18	LVIDd/LVIDS 1/10/ 26	FS	EF (m-mode)		
- 83	RVID	IVSd/IVSs 0 9	PWTd/PWTs u &	RA		
- 63	svc	IVCi/IVCx	MPA	LPA		
- 89	RPA	As Ao	Des Ao	MVA		
	ASD/VSD/PDA EF		LV Mass	2D-LV Volumes		
	2D Echo Description	- Tillaled RDI	Ry Doppler D	Data		
器	Valves		MV	100		
- 88	Chambers	- mod the	AV M	RA= 3.0 cm		
-	Septa	- (RNJP= 50	+ RABO TV TI	APSE= 14.		
-	Segmental Wall Motion	01011	PV IV	'C=		
2	со	- DIXated 1	5C (2:5Cm)			
日	Mass/Veg/thrombus/other	- Dilabet 11 YSOX. Co	Modern PA press	sure		
	Other:		1-2-			
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M -	Dilaked RAJRV/mod PAH J-RV dystymen					
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 CTPA – feature suggestive of pulmonary artery hypertension with n o evidence of thromboembolism.

Cardiomegaly with mild dilatation of RA, RV

visualised lung fields show mosaic attenuation pattern diffusely with interspersed ground glass densities predominantly in both lower lobes with fibrotic bands

PROVISIONAL DIAGNOSIS

• T2DM/ Hypothroidism/ILD/NSIP pattern/Pulmonary hypertension

TREATMENT GIVEN

- Oxygen therapy
- Injection monocef I g IV BD
- T Azee 500 mg OD
- Injection MPS 60 mg OD
- Injection Lasix 20 mg BD

- RA factor- negative
- Ana was negative by elisa and if was still awaited
- crp was raised
- C anca and p anca were awaited

Patient was symptomatically improved and discharged on personal request

Home based oxygen therapy @2-4 L/min

T Wysolone 40 mg OD (to be tapered)

T Pantop 40 mg OD

T Lasix 20 mg BD

READMISSION (2ND)

Patient was lost to follow up on OPD basis and presented after 8-10 weeks with complaints of

Fever x 15 days on and off

Acute exacerbation of shortness of breath for 4-5 Days

Bilateral upper limb skin rashes for 4 days

Cough with blood stained sputum for 4 days

ON EXAMINATION

- PR II0 bpm
- BP 70/42 mm Hg in right arm on sitting position
- RR 26/min, abdominothoracic
- Sp02 79% on Room air

95% on oxygen@ 10l/min

Bilateral Pedal edema present

- CVS- S1 S2 loud p2
- Respiratory system-fine crepts in b/l interscapular infrascapular areas decreased air entry in rt axillary area
- Bilateral upper limb has palpable purpuric rashes

Department of Pathology

GB PANT INSTITUTE OF POST GRADUATE MEDICAL EDUCATION & RESEARCH, NEW DELHI (GIPMER)

AUTOIMMUNITY REPORT FORM

Name Seema Devi

Age/ Sex 36 / F LABNO 428/12

CR No 444454	Ward/Red Z +
Referring Physician Or S. Kyngy	Contact telephone No
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speciel	volter) andedox (1+)
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2. ds DNA by ELÍSA	
Normal Value: < 25 IU/ml (negative),> 25 IU/ml (positive)	
3. Nuclear Antigen Line Assay	
Liver Line Assay	
PANCA Y.Y. Uland (Paradire) Normal Value: CANCA 70 bland (Paradire) Normal Value: ntilkM alue: <20 units (Negative), 20 - 24.9 units (Border Line	(9.5 U/ml (Negative) >3.SU/ml (Positive)
AntiGBM	
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1 - 15	
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ported By: Dr. V. V. Balaa	Date 20/2/20
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BLOOD INVESTIGATION:

Investigation	value
Hb	10.1
Hct	33.8
TLC	5700
DLC	82/14/2
PLT	2.51
Tbil/Dbil	0.8/0.5
ALT	16
ALP	178
AST	26
TP/SA	6.8/2.4

investigation	Value
Sputum KOH	Only oral flora seen
Sputum c/s	No growth
Blood c/s	No growth
Repeat blood c/s	No growth

TREATMENT

- Inj noradr 80ug/min
- inj clindamycin 600 mg tds
- Inj. tazact

PROVISIONAL DIAGNOSIS

- Hypothyroidism/Type 2 dm with ild with pulmonary hypertension with cor pulmonale with rt upper zone cavity with air fluid level
- !lung abscess with sepsis with purpura fulminans
- ?wegners with active disease

SKIN BIOPSY REPORT

• Small vessel leukocytoclastic vasculitis



व्याधिकी विभाग DEPARTMENT OF PATHOLOGY

MAMC-Appendix No. 18-p Annex-5

मौलाना आजाद मैडिकल कालेज एंव लोकनायक अस्पताल, नई दिल्ली-110002 MAULANA AZAD MEDICAL COLLEGE AND L.N. HOSPITAL NEW DELHI-110002

नाम Name	Seema	प्रयोगशाला संदर्भ संख्या/Leb. ref. No. <u>\$14098</u> /22 आयु व लिंग Age & Sex <u>3</u> ि
वार्ड और पलंग संख्या Ward and Bed No	27	
चिकित्सक का नगर	Dr. Swesh	
नमूना		
		ਿੰਧੀਰੰ REPORT
		show features of small vessel
	lencocytoda	suc vasculus

FINAL DIAGNOSIS

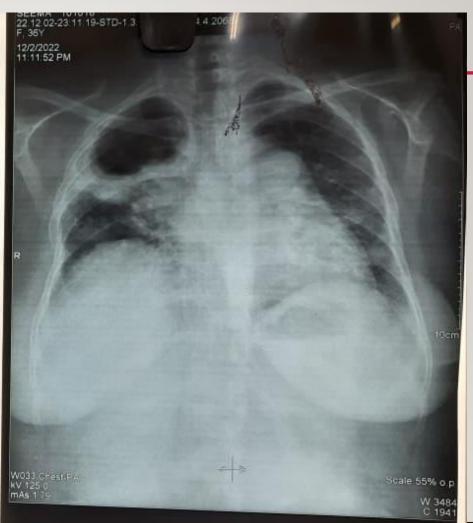
Hypothyroidism/Type-2 DM/ILD/Pulmonary hypertension /ILD/ Right upper zone cavity /c-ANCA positive small vessel vasculitis likely Wegner's

TREATMENT GIVEN

- Inj methylprednisolone I gm i/v OD for 3 days followed by-
- Tab prednisolone 60mg OD
- Tab cyclophosphamide I50mg OD
- Inj Tranexa 500 mg i/v TDS
- Tab eltroxin 150 mcg OD BBF
- Tab metformin 500 mg BD

CHEST X-RAY FILMS





FOLLOW UP

- Patients oxygen requirement came down
- Nor adr was tapered
- skin lessions started improving
- cough and hemoptysis resolved

WHYTHIS CASE?

- ILD with Wegners is relatively uncommon.
- There was no renal involvement and ENT involvement

The lung is affected in several distinct ways. Pulmonary nodules, which are necrotizing and frequently cavitate (Fig. 94.5), often occur before or in the absence of systemic vasculitis and thus are a common feature of "localized" 78,79 or "limited" 6PA. Nodular disease is often asymptomatic or merely produces cough. Alveolar hemorrhage, characterized by mild to life-threatening dyspnea and hemoptysis, is also common but is clinically and radiographically distinct from nodular disease. 82,83 Other well-described pulmonary manifestations include pleuritis⁵⁶ and endobronchial lesions distal to the subglottis⁸⁴; the frequency of the latter may be underestimated because they can only be definitively diagnosed by bronchoscopy. Clinically significant pulmonary fibrosis and bronchiectasis is relatively uncommon in GPA because parenchymal lung disease generally heals without scarring.

Thank you