

## BACKGROUND

- **Purtscher's retinopathy (PR)** or *angiopathia retinae traumatica*- a feature of traumatic retinopathy
- **Purtscher flecken**- polygonal white areas in retina between arterioles and venules
- **Purtscher –like retinopathy (PLR)**: features similar to PR seen in non traumatic condition like acute pancreatitis, collagen vascular disease and amniotic embolism.
- PLR: cause is uncertain, possible complement activation and leukoembolization. It can be seen in active SLE, with an *incidence of 29%*

## CLINICAL PRESENTATION

- A-24-yr-female presented with 1 month h/o dry cough, breathlessness and evening rise in temperature
- Loss of appetite +
- Recent weight loss (not quantifiable) and anorexia
- No visual complaints
- **General examination:** pallor, bilateral mild pitting pedal edema and enlarged non tender left upper cervical lymph node
- Vitals: PR-125, otherwise unremarkable
- **Systemic examination:**  
RS- reduced breath sounds in left lung (lower and mid zone areas)  
CVS- muffled S1 and S2

## INVESTIGATIONS

Initial blood investigation										
HB	WBC	N	L	PLT	MCV	ESR	RFT	T.P	ALB	
8.4	7250	74	30	3.37L	76	85	Normal	5.5	1.8	
PLEURAL FLUID										
CELLS	260 ; L-90%									
T.Protein & Albumin (gms/dl)	3.0 & 0.9									
ADA	46 (<40 IU)									
Gene Xpert	Negative									
Colour	Straw									
Malignant cytology	Negative									

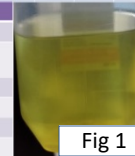


Fig 1

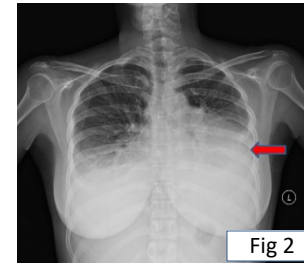


Fig 2

**ECHO -1<sup>st</sup> VISIT:**  
Moderate pericardial effusion (post-1.5cm  
Lat: 1.8cm  
Apical-0.6cms)  
Normal LV systolic function  
Normal valves  
NO RA /RV collapse  
NO tamponade

Fig 3

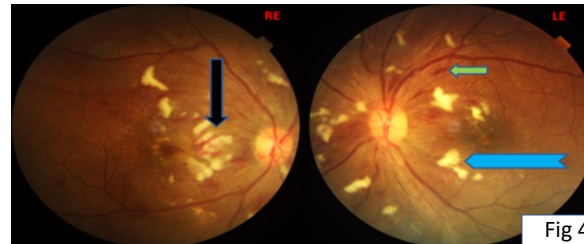


Fig 4

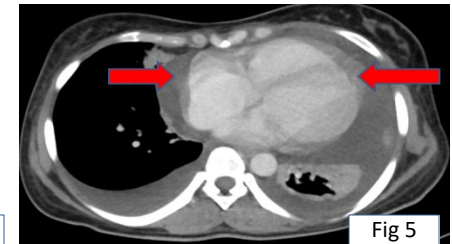


Fig 5

## COURSE OF DISEASE

Initial suspicion: TB (mantoux negative), started on ATT

Clinical review: hyperpigmentation, patchy alopecia, oral ulcer, arthralgia

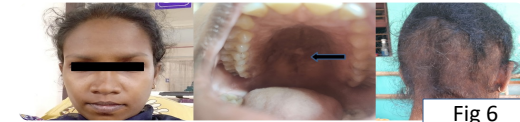


Fig 6

ANA- 4+ Fine Speckled pattern.  
Urine :2+ albuminuria ( 24 hr urine Protein: 6gms)  
Anti ds DNA –strongly positive.  
C3 & C4 levels LOW

Clinical improvement and resolution of retinal findings with Steroids and HCQ in addition to ATT

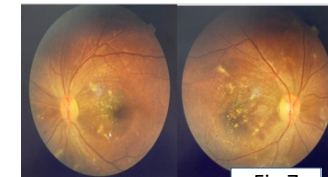


Fig 7

## REFERENCES

1. Palejwala NV, Walia HS, Yeh S. Ocular manifestations of systemic lupus erythematosus: a review of the literature. Hindawi Publishing Corporation, Autoimmune Diseases 2012; 2012(290898):9.
2. Agrawal A, Mckibbin M. Purtscher's retinopathies: a review. Surv Ophthalmol. 2006; 51:129–36.
3. Wu C, Dai R, Dong F, Wang Q. Purtscherlike retinopathy in systemic lupus erythematosus. Am J Ophthalmol. 2014;158(6):1335–41.