

# Bilateral diffuse uveal melanocytic proliferation (BDUMP): Nuances in pathological evidence (ID 56587)

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## Background:

- Diffuse uveal melanocytic proliferation (DUMP) can be unilateral or bilateral. •This is a sequence of internal malignancy. •It is characterized by proliferation of uveal melanocytes producing pigmented uveal tumours.
- We present two cases of enucleated eyeball with this condition.

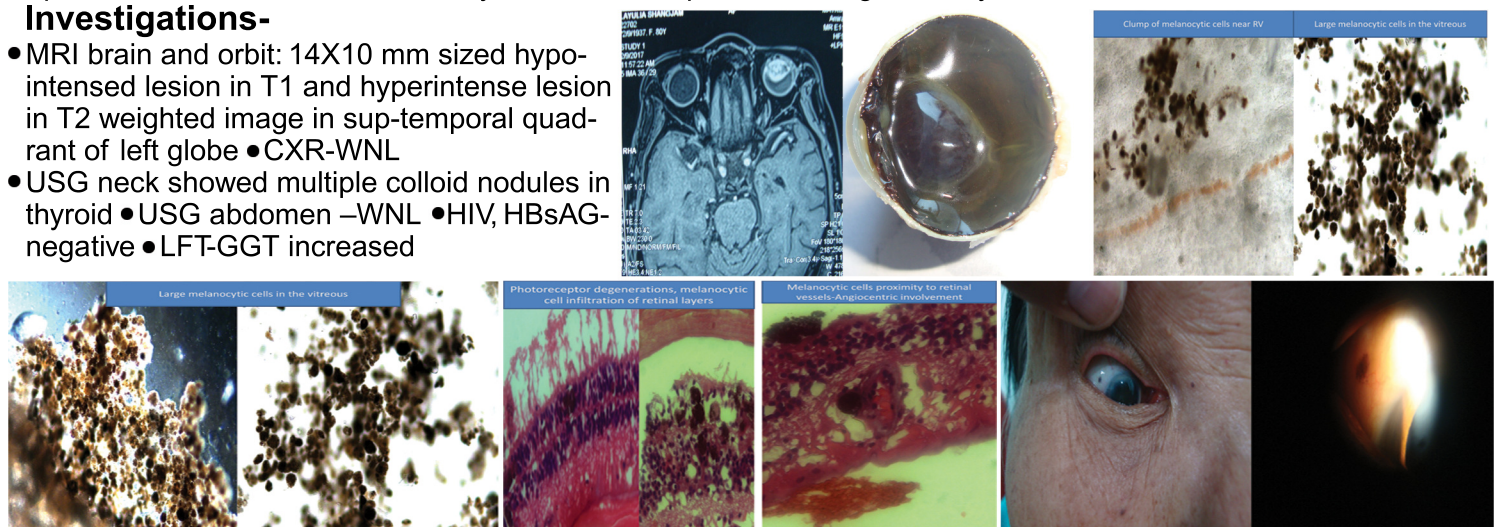
## Methods: Case series

## Results:

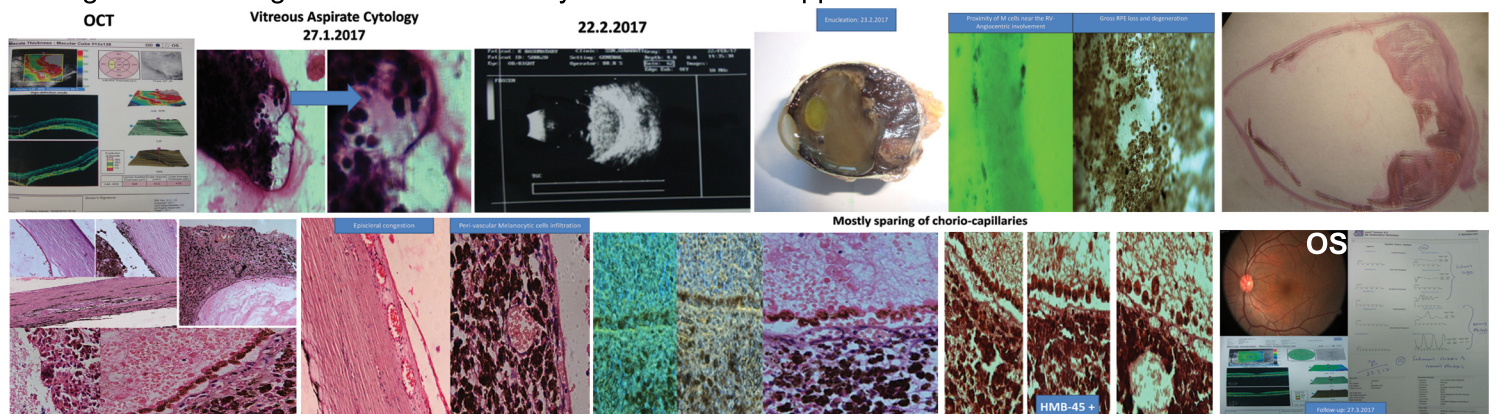
**Case 1:** An 80 years old Indian lady presented with dimness of vision (DOV) in left eye (OS) for 1 month. Vision was perception of light negative in OS. Fundus examination revealed a choroidal mass in OS. Ancillary imaging gave the diagnosis of choroidal melanoma. Ultrasound of neck showed a colloid nodule in the thyroid with abnormal liver function test; Enucleated eyeball revealed evidence of DUMP with interesting changes of melanocytic proliferations in around retinal vessels, layer of retina with characteristic sparing of choriocapillaries. Immunohisto chemistry (IHC) was done with various markers. Other eye fundus examination had retinal pigment epithelial defect and she is currently under follow-up with oncologist for thyroid nodule.

## Investigations-

- MRI brain and orbit: 14X10 mm sized hypo-intensified lesion in T1 and hyperintense lesion in T2 weighted image in sup-temporal quadrant of left globe
- CXR-WNL
- USG neck showed multiple colloid nodules in thyroid
- USG abdomen –WNL
- HIV, HBsAG-negative
- LFT-GGT increased



**Case 2:** A 28 years old man with DOV in OD for 5 months. Previously, he was diagnosed to have ulcerative colitis (UC) with GIT polyps. Ocular imaging showed diffuse choroidal mass (OD). Enucleated eyeball revealed the evidence of DUMP with interesting gross, histopathology and IHCs findings. He is presently under the follow-up with gastroenterologist for UC and is on systemic immunosuppressive



## Comments:

- Two cases of BDUMP shown. One in elderly lady and other in young person
- Histopathology supported evidence confirmed the cases and other eye of both the patients had RPE involvement
- Sparing of chorio-capillaries were characteristic findings in both the cases

## Conclusion:

Angiocentric melanocytic proliferations with IHC supported evidence in BDUMP were some of the newer observations that were seen in the study.

## References:

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- Gass JD, Gieser RG, Wilkinson CP, Beahm DE, Pautler SE. Bilateral diffuse uveal melanocytic proliferation in patients with occult carcinoma. *Arch Ophthalmol*. 1990 Apr;108(4):527-33. PubMed PMID: 2322154.