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Incidental discovery of retinal pathology on preoperative assessment of ICL candidate patients... Diagnosis and management.



**No financial interest to
disclose**

Purpose:

- Analysis of retinal pathologies incidentally discovered on preoperative preparation of ICL patients.

Methods

- Retrospective analysis of patients presenting with refractive error and being prepared for implantable collamer lens surgery (Visian ICL).

- **Any documented retinal pathology**, whether required treatment or not, affected the decision of ICL implantation surgery or not, was included in the retrospective analysis.
- Data recruited for patients presented between 5/2012 and 1/2014.

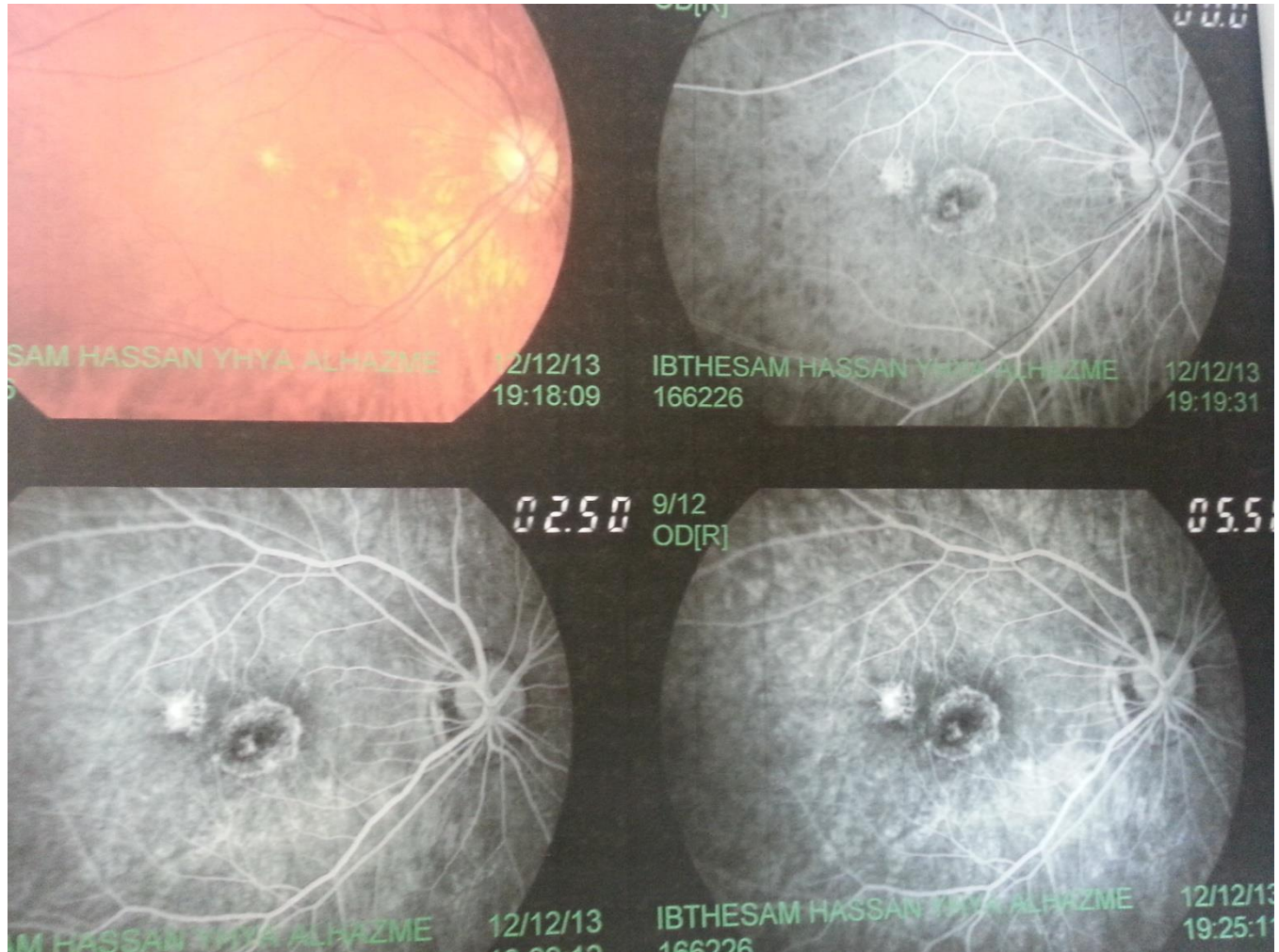
Results

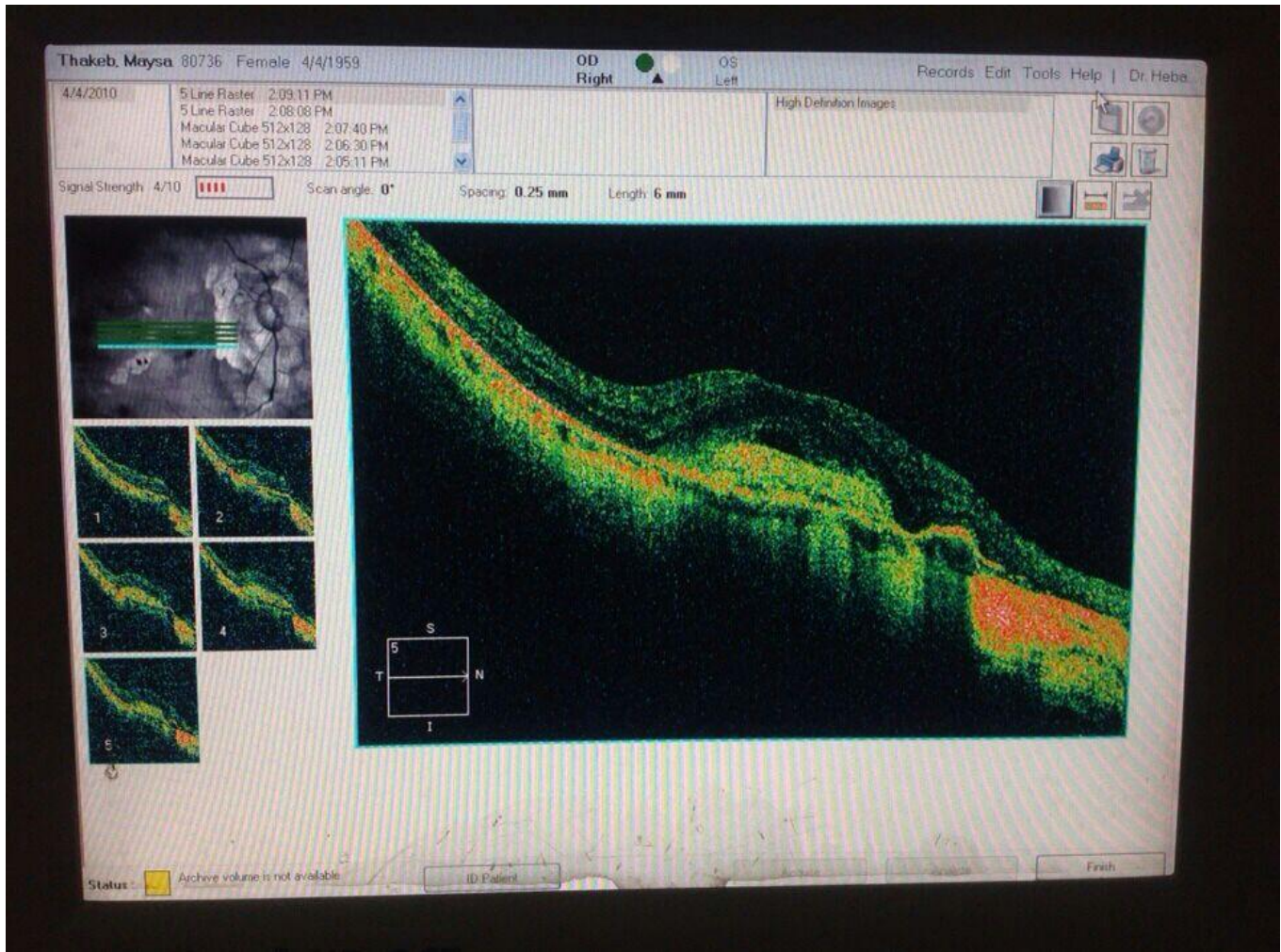
- Among 304 eyes prepared for ICL surgery, 297 eyes performed the procedure.
- 23 eyes (7.56 %) had retinal pathologies on preoperative assessment.
- 2 eyes with stage 3 macular hole.
- 2 eyes with myopic CNV scar.
- 2 eyes with white without pressure.

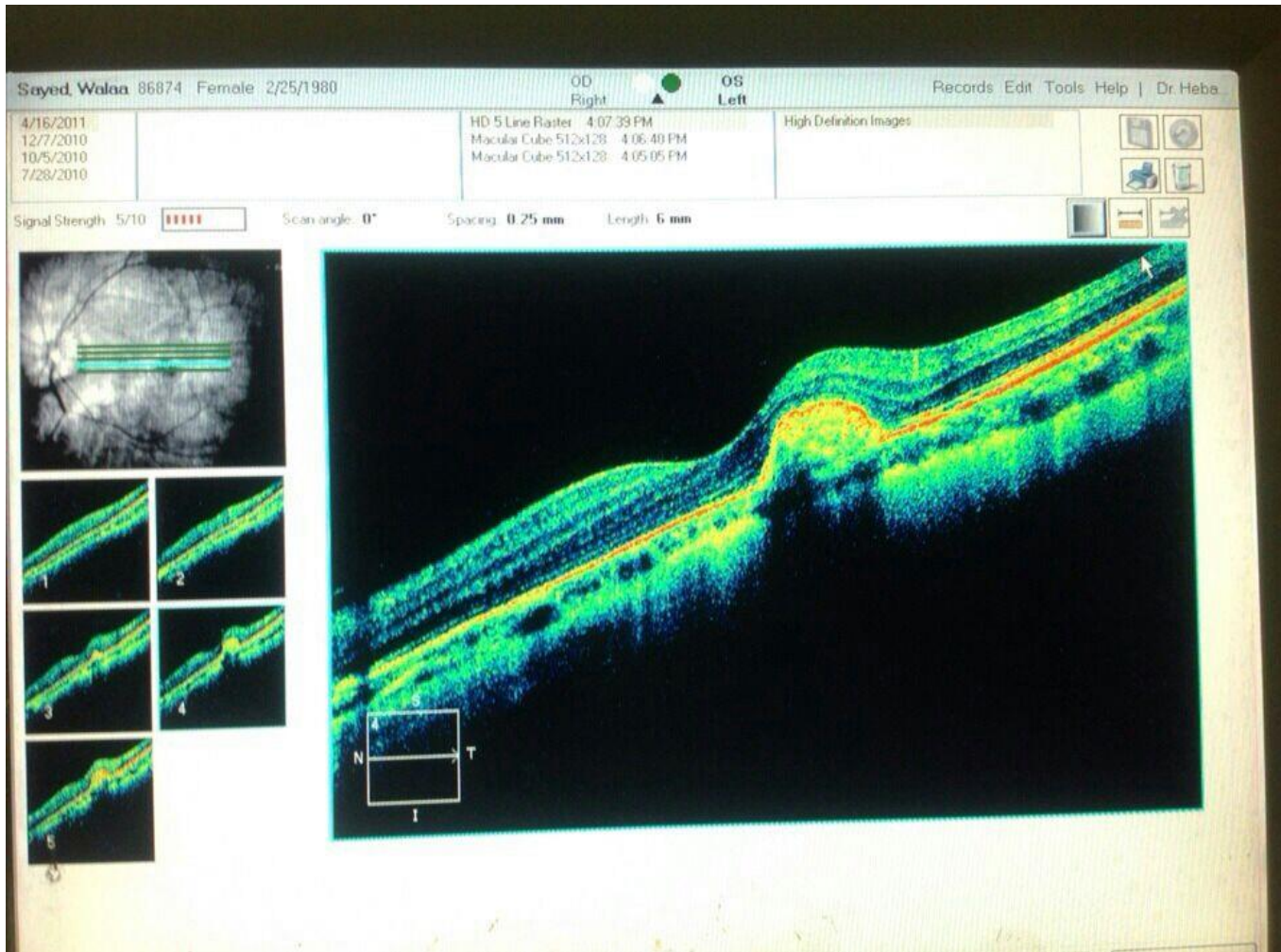
- one eye with perforated lattice degeneration and history of RD surgery in contralateral eye with evidence of previous Laser barrage done around lattice.
- 5 eyes with peripheral retinal flat holes and required Laser barrage.

- 4 eyes NPDR with dry maculae.
- 1 eye with perforated lattice degeneration and required Laser retinopexy.
- 2 eyes had peripapillary old toxoplasma scar.
- 4 eyes with active myopic CNV and required intravitreal Avastin injection.

Active myopic CNVM







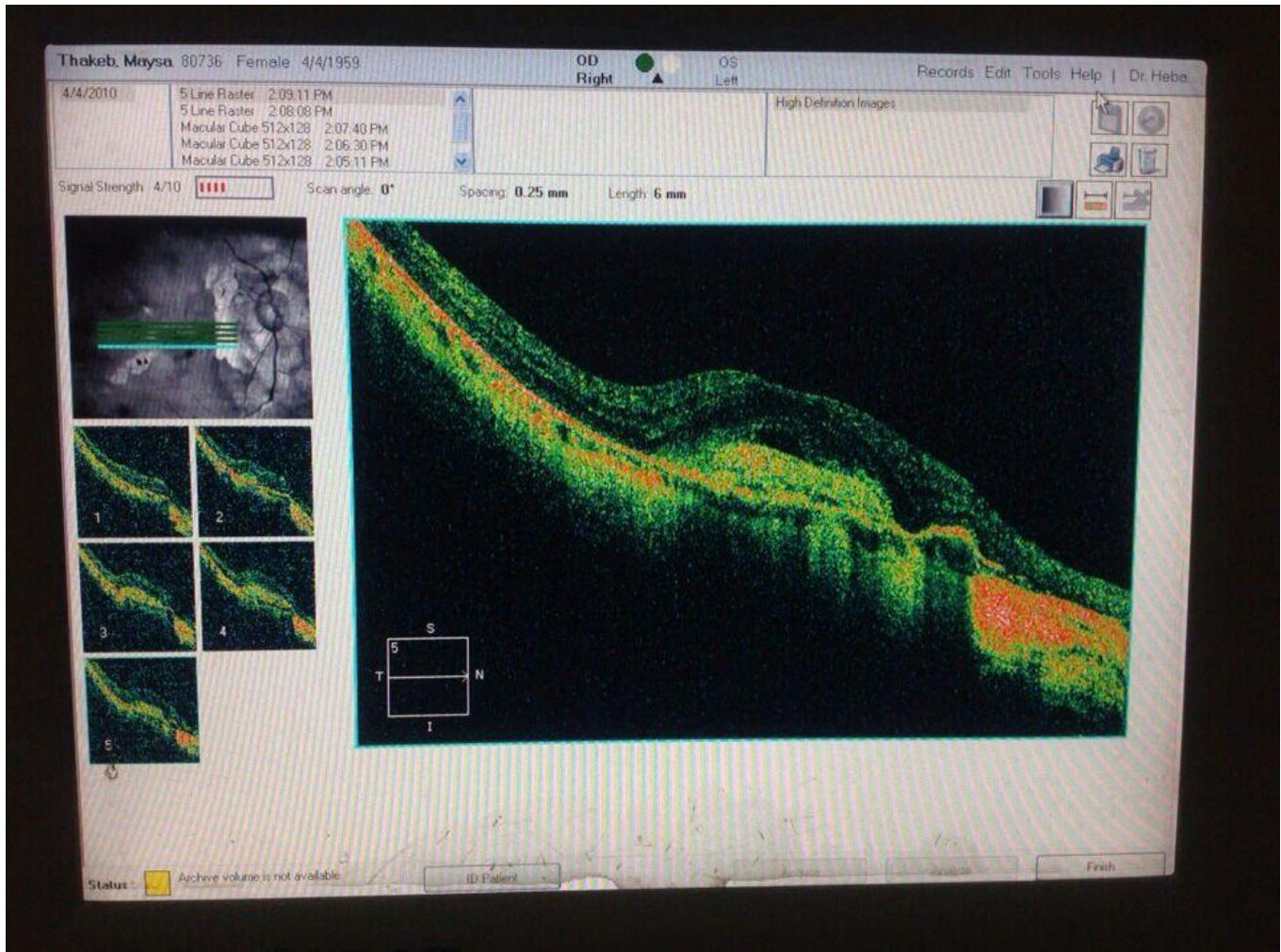
- **7 eyes were excluded** (after discussion with the patient) due to their retinal pathology .

Excluded eyes

- One eye with perforated lattice degeneration and **history of RD** surgery in contralateral eye.

2 eyes with **myopic CNV scar** with BCVA of 20/100 and 20/70.





2 eyes with peripheral retinal flat holes and required Laser retinopexy ;
with ICL surgery cancelled (**upon patient request**).







In our study

- **0%** incidence of postoperative retinal detachment.

In one study, 617 myopic eyes

- Preoperatively, 61 (9.9%) eyes had posterior segment pathology .
- The overall retinal detachment rate post-ICL was 0.32%.

Conclusion

- Preoperative retinal assessment of ICL patients is crucial to detect non diagnosed myopic retinal changes and other latent pathologies not related to myopia.



THANK YOU