

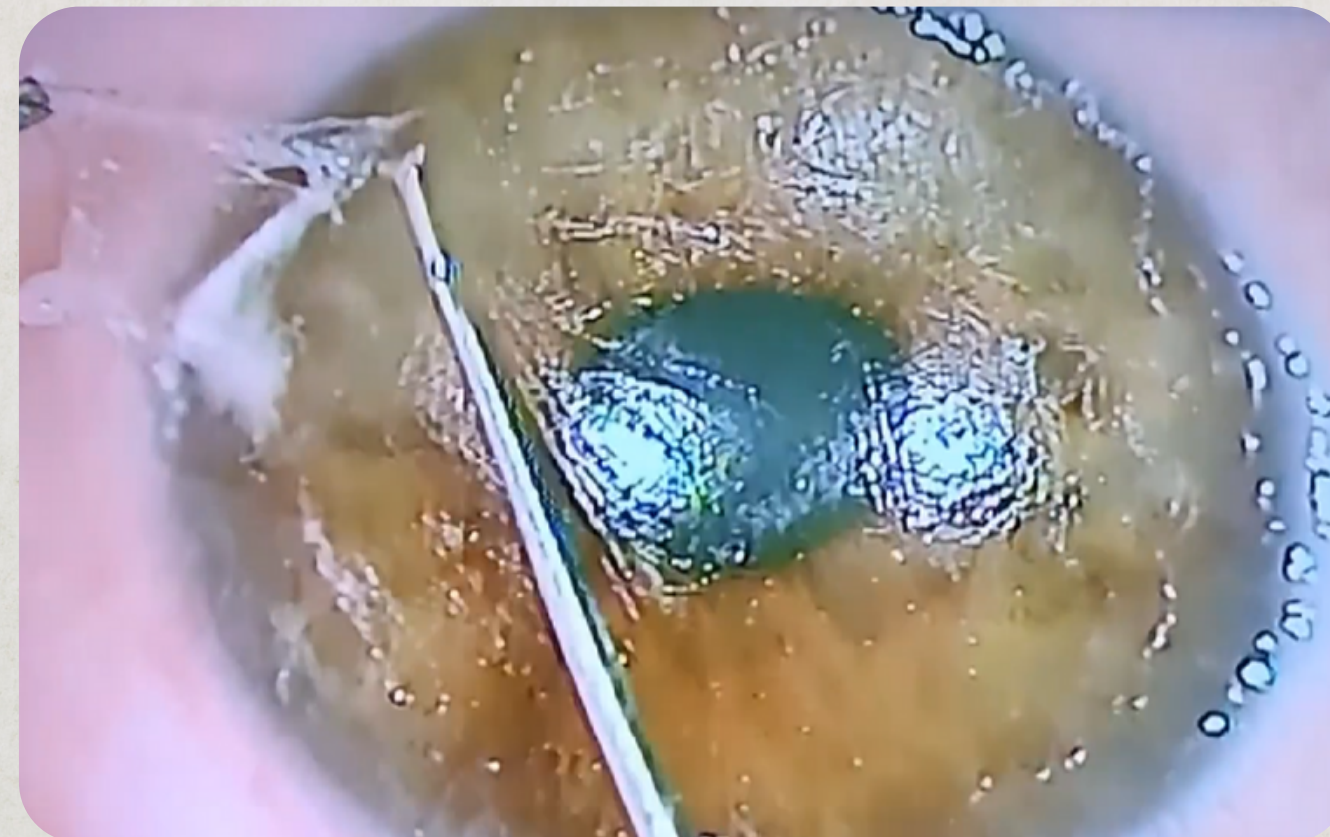
Surgical management of Salzmann's nodular degeneration using a tan DALK marginal dissector; an "onion peeling" technique

*DG. Vakalopoulos, M. Katsimpras, L. Lalou, K. Togka,
V. Tsagakogiannis, M. Chatzea, GD. Kymionis*



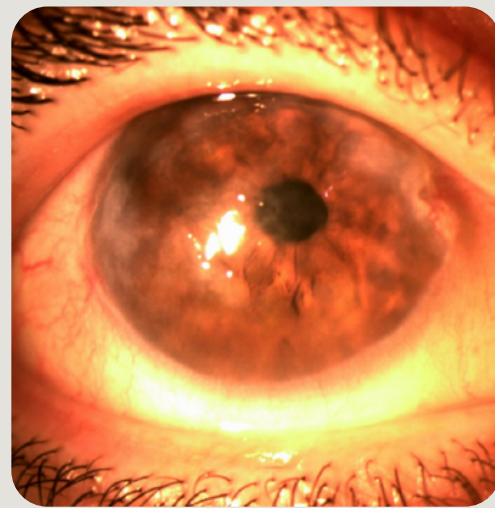
National and Kapodistrian University of Athens,
1st department of Ophthalmology "G.Gennimatas" Hospital

The authors have no conflict of interest to disclose

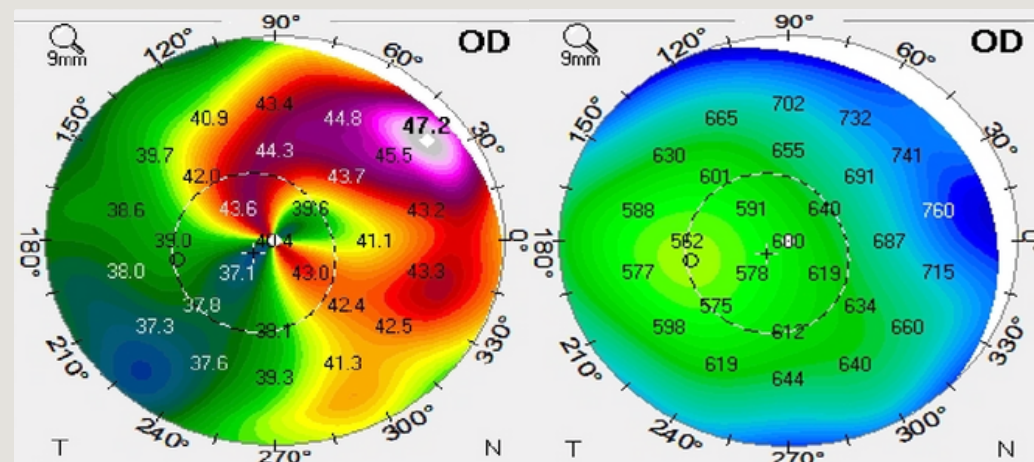


Case Presentation

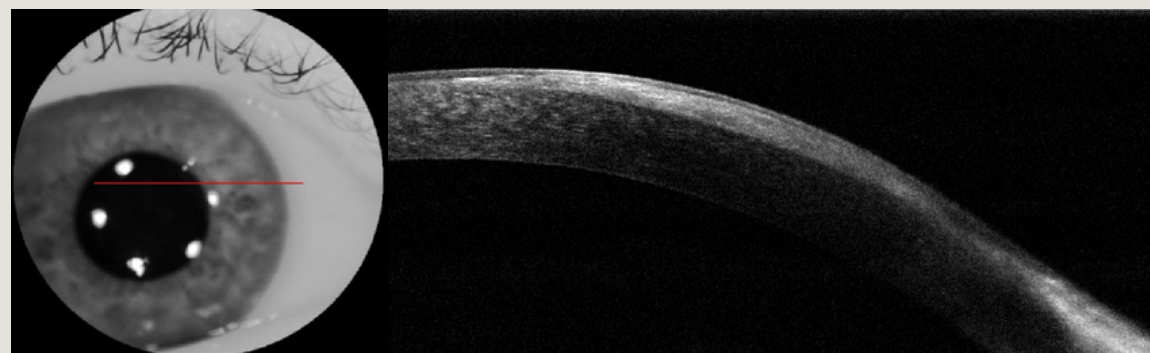
- 59-yo F
- Patient reports gradual worsening of the vision with frequent changes of eyeglasses prescription and foreign body sensation
- Corrected Distance Visual Acuity (CDVA): 2/10 OD, 5/10 OS
- Refractive error: (+6.00, -6.25/33o) OD , (+6.25, -2.00/84o) OS
- Bilateral grey-white to bluish subepithelial nodules in multiple quadrants that extended centrally OD
- Other findings: Blepharitis, Ocular rosacea



Slit-lamp examination



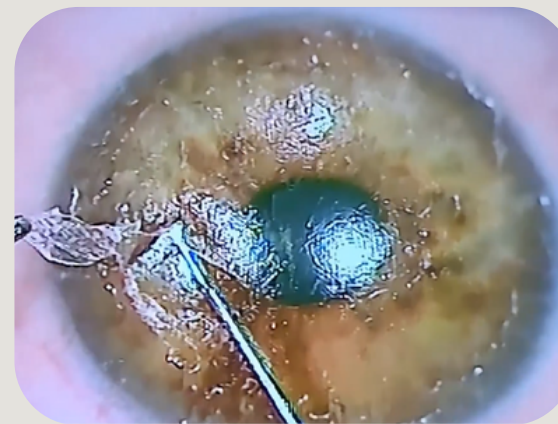
Scheimpflug tomography: excessive central flattening due to peripheral thickening caused by the nodules



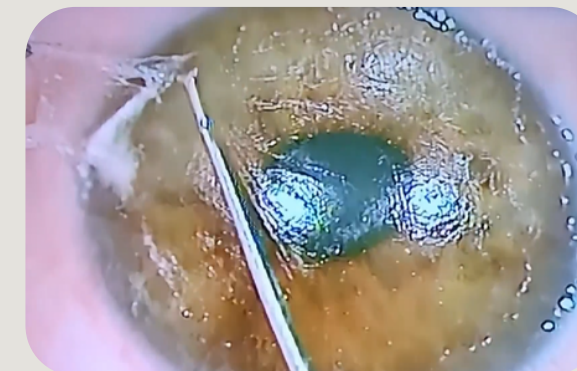
Anterior-OCT: Hypercellular area of extracellular matrix

Management

- Epithelial debridement
- Removal of the nodules using a tan DALK marginal dissector
- Minimal hyperopic PRK (+1D) to further smoothen the periphery



nodule cutting
(dissector)



nodule peeling
(forceps)

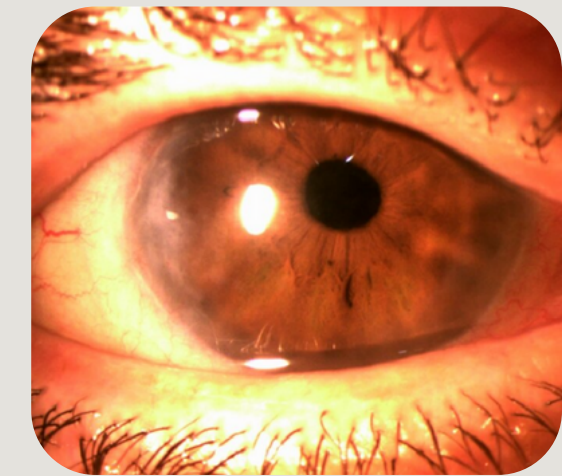


smoothing
(minimal hyperopic PRK)

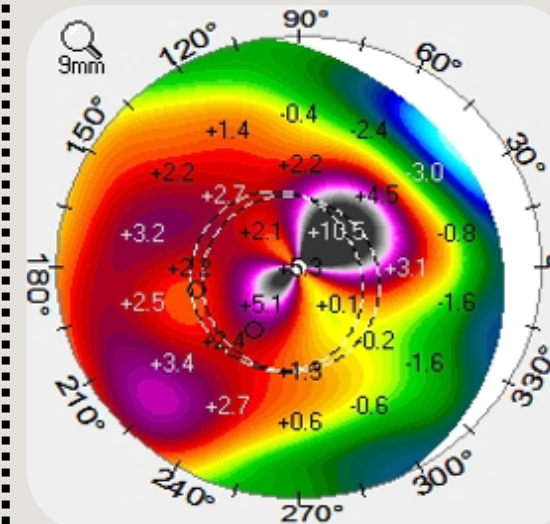
Results

Timeline

- *pre-op*: CDVA 2/10 (+6.00 / -6.25x33o)
- *15 days post-op*: CDVA 7/10 (-1.00 / -0.75x150o)
- *6 months post-op*: CDVA 10/10 (-0.25sph)



Clear cornea
(6 months post-op)



Difference map before and after the procedure; normalization of the flattened central cornea

Take-home message

Salzmann's nodular degeneration can be managed with this minimal surgical procedure, preserving the otherwise healthy cornea of the patient