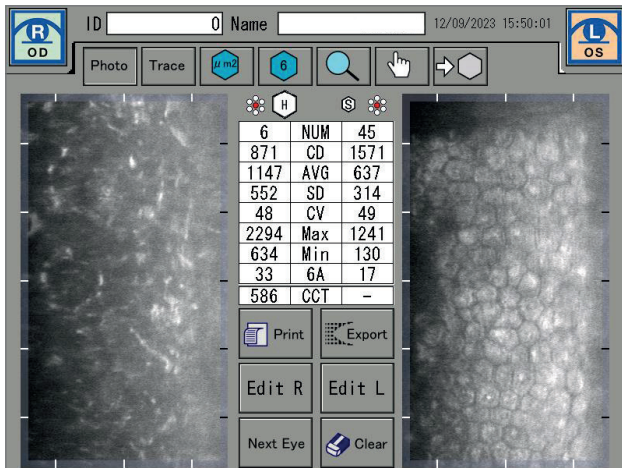




Author: Renato Ambrósio Jr, MD,
PhD, FWCRS, PCEO,
Instituto de Ohos Renato Ambrósio,
Rio de Janeiro, Brazil

Detached DMEK Transplant

A 61-year-old female patient presented with Fuchs' dystrophy with corneal decompensation in the left eye after cataract surgery.



A DMEK surgery was performed in the left eye. Post-operative Pentacam Cornea OCT examination revealed a detachment of the DMEK transplant.

Fig 1: Specular microscopy with endothelium cell counts in both eyes showing abnormalities

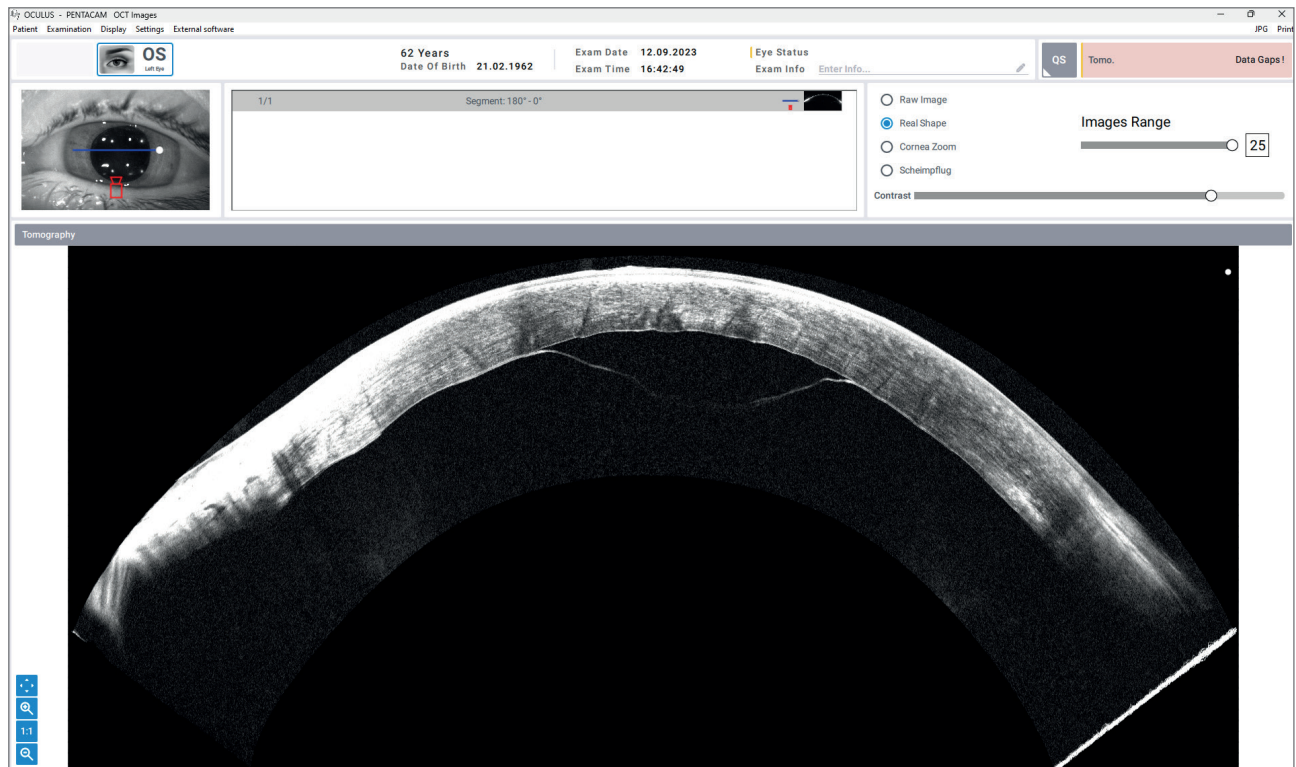


Fig 2: Pentacam Cornea OCT of the left eye with Real Shape image showing detachment of the DMEK transplant

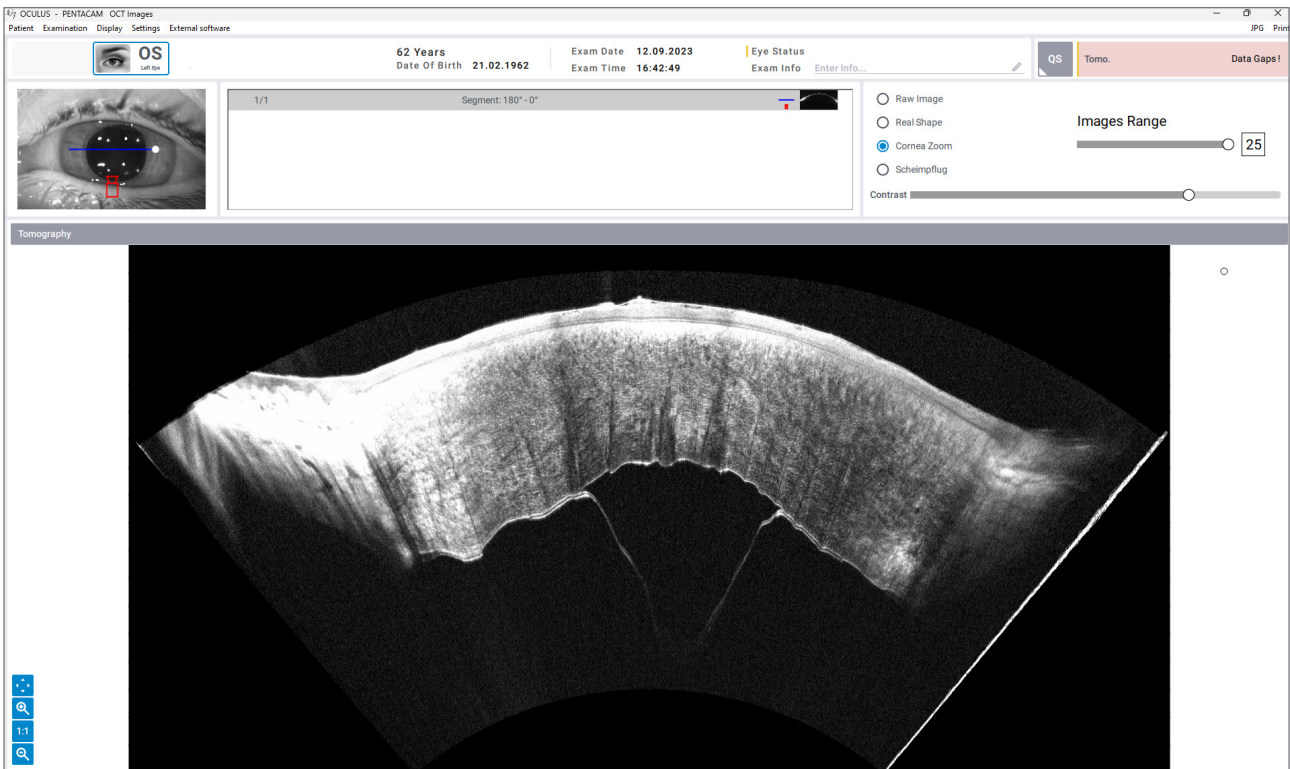


Fig 3: Cornea Zoom image showing the detached DMEK transplant with greater detail.

An air bubble was placed in the anterior chamber to reattach the DMEK transplant.

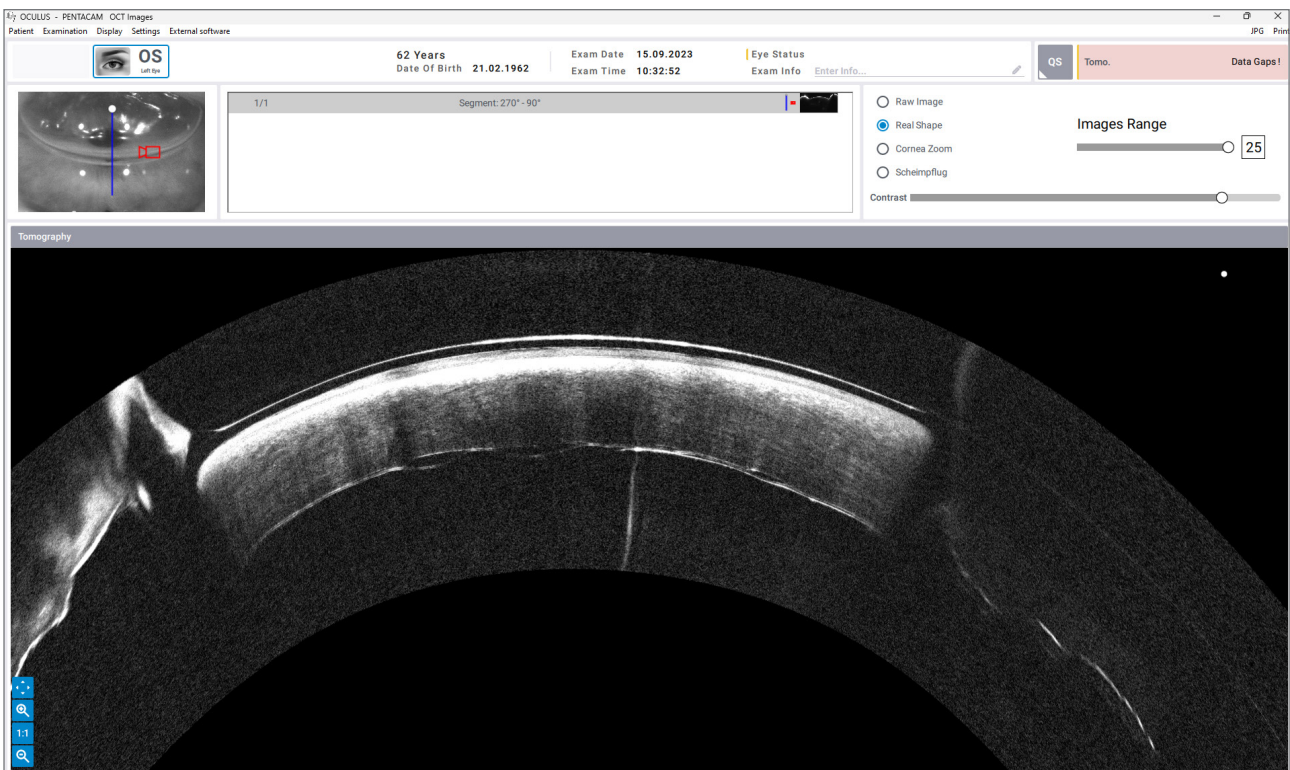


Fig 4: Pentacam Cornea OCT of the left eye with Real Shape image showing the air bubble trying to reattach the transplant again

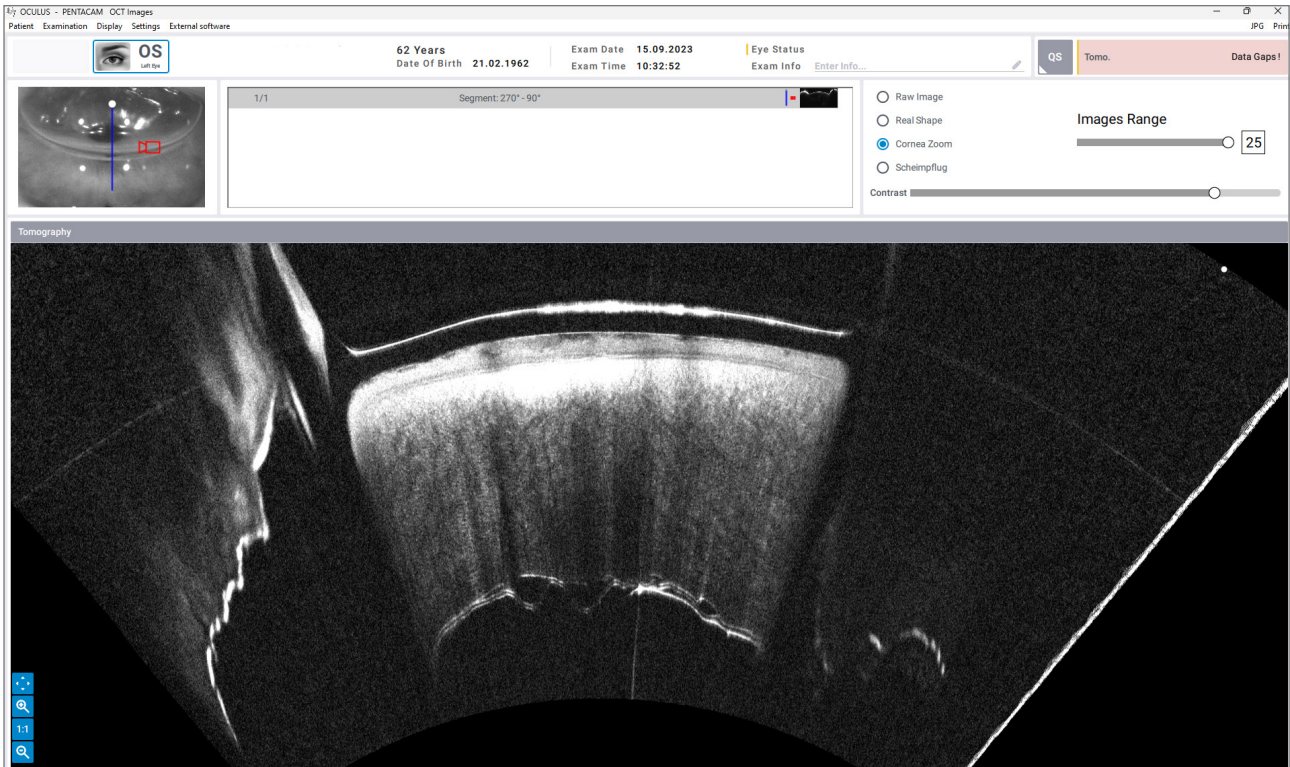


Fig 5: Cornea Zoom image showing partial success in the reattachment. The bandage lens is also visible in both image modes

Reassessment with the Pentacam Cornea OCT shows no sufficient success. The DMEK transplant had to be renewed.

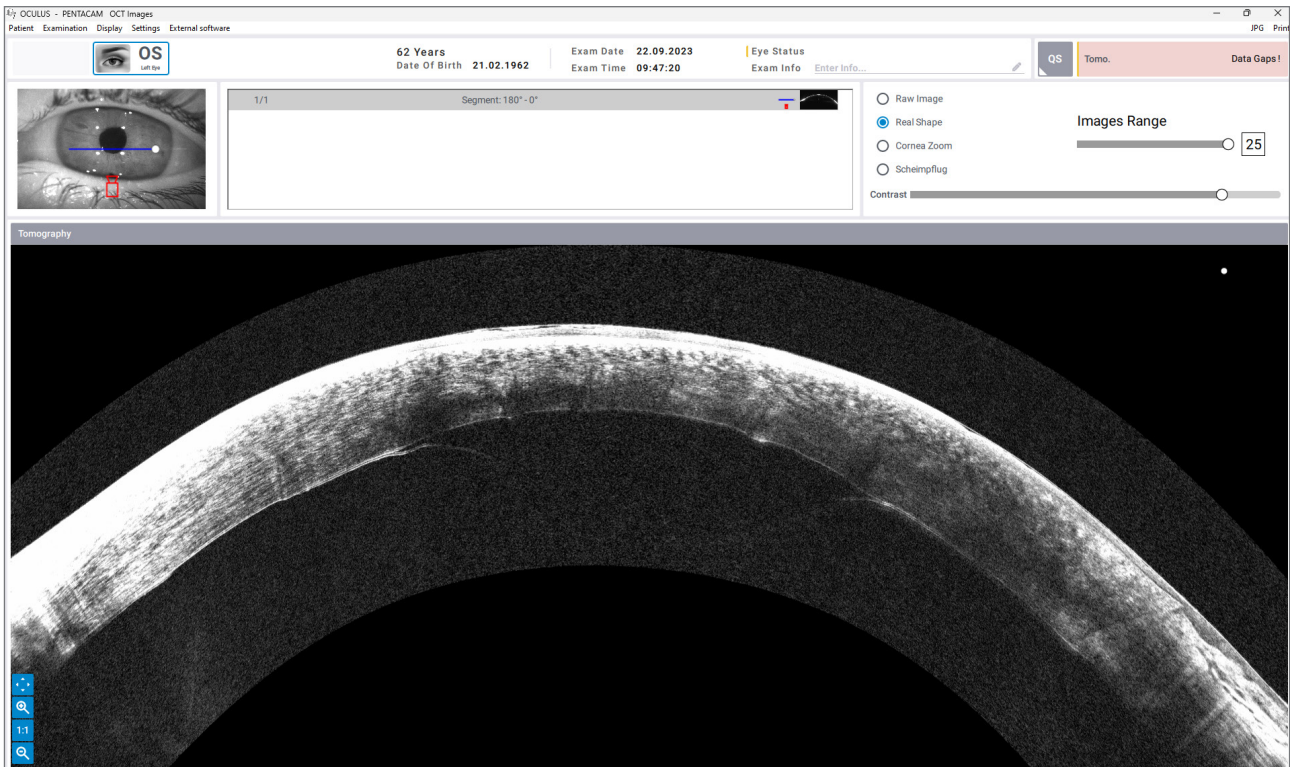


Fig 6: Pentacam Cornea OCT of the left eye with Real Shape image showing the again detached DMEK transplant

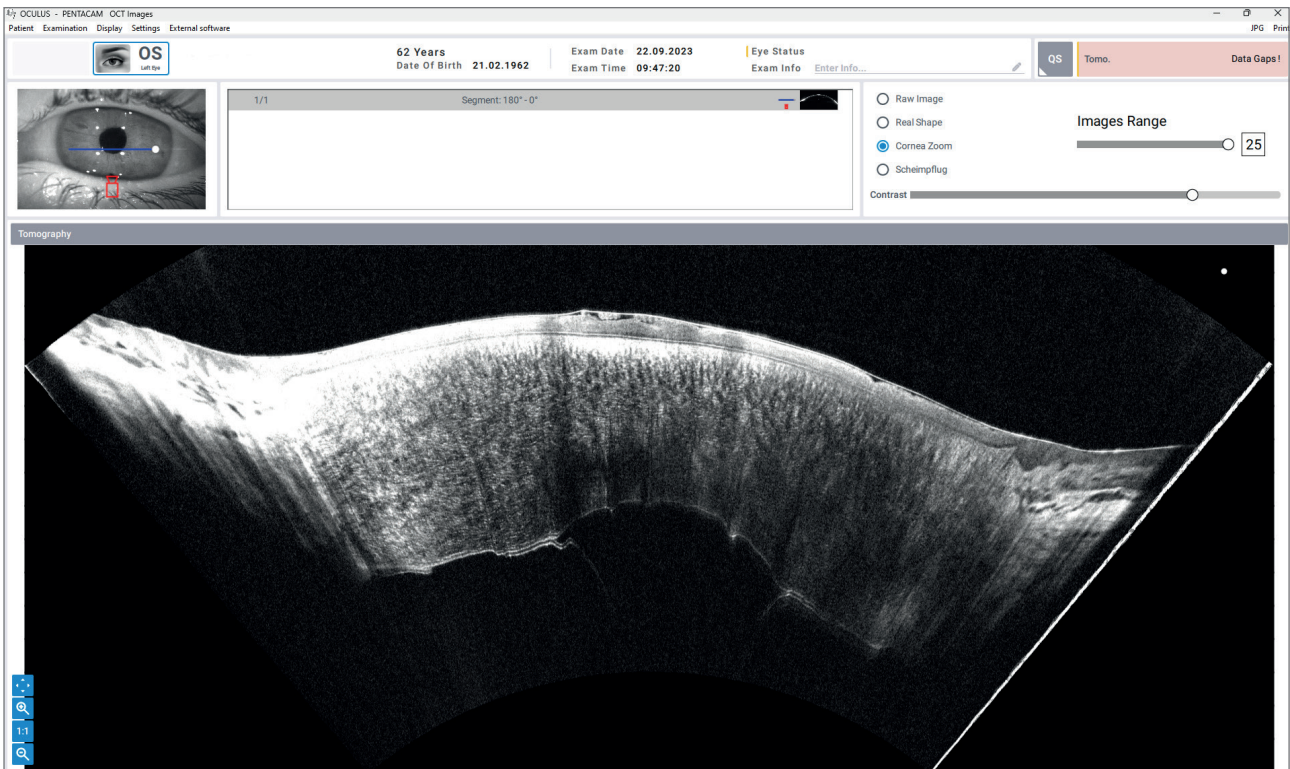


Fig 7: Cornea Zoom image showing the again detached DMEK transplant with greater detail

Pentacam® Cornea OCT

Best of both worlds: Scheimpflug & OCT!
 This powerful synergy allows for comprehensive corneal assessment, providing precise measurements of all refractive layers and detailed visualization of sublayers, crucial for early detection, optimal surgical planning and post-operative care.

www.pentacam-cornea-oct.com

