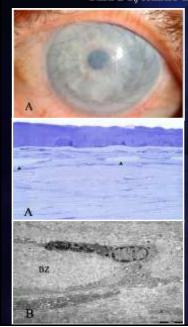
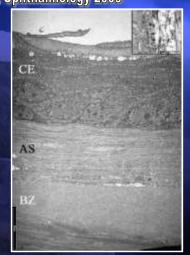
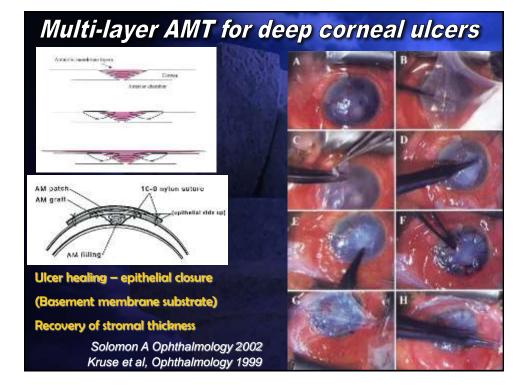


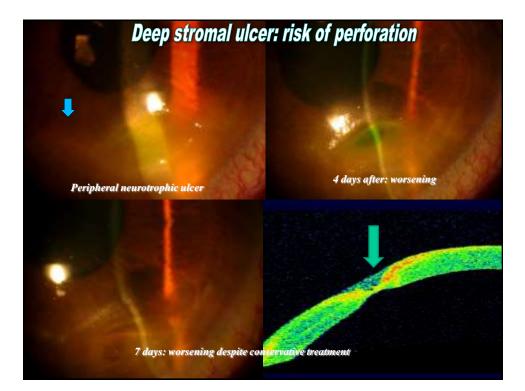
Histological features of transplanted AM: implication for corneal wound healing Said DG, Nubile M, Dua HS et al. Ophthalmology 2009

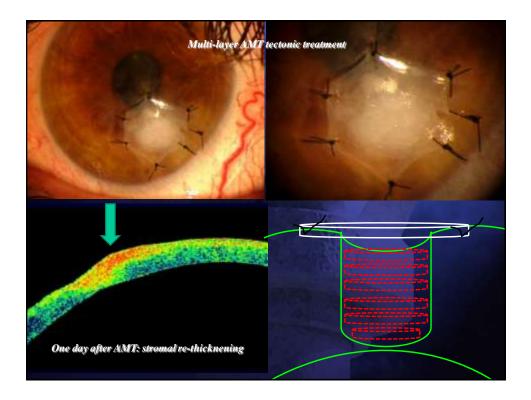


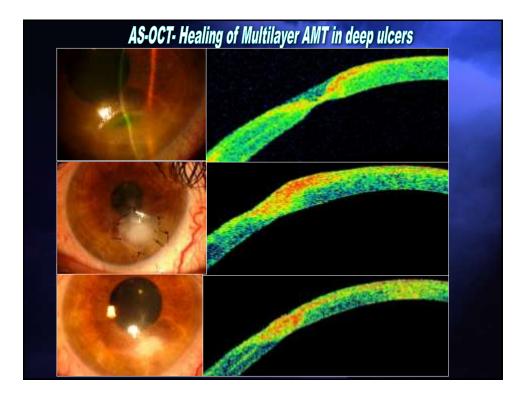


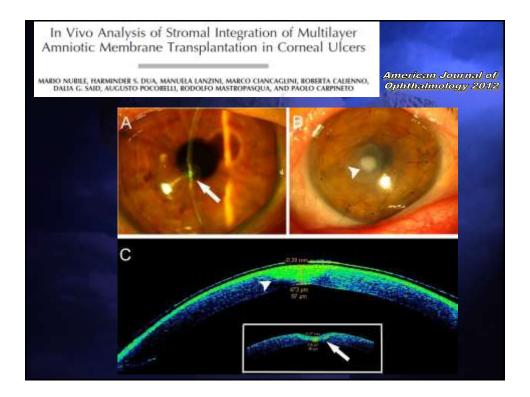
The amnion stroma supports CSDC and epithelial cells. Repopulation of the amniotic stroma by CSDC migrating through breaks in Bowmans zone integrates the amnion with corneal tissue and allows for rebuilding of corneal stroma.



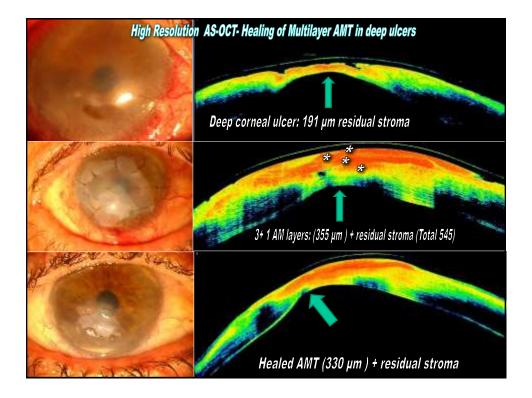








AS-OCT findings and measures at the ulcer site befeore and after multi layer AMT TABLE 2. Anterior Segment Optical Coherence Tomography Morphometric Parameters" Before and After Amniotic Membrane Transplantation 1 Month 3 Months 6 Monthe 12 Monte 1 Das 1 Wash AM AM AM. АЫ Preoperative Total CT Time Thickness Theologies Theknes Total CT Technett Tobil CT Thickness Total CT Total CT Total CT 331.70 269.5* 394.0 548.5 623.4 375.4 509.05 494.57 420.2 Mean 222.7 406.5 74.2 70.6 SD 70.3 80.4 50.9 79.7 54.9 86.0 46.1 54.1 61.2 AM = amniotic membrane; CT = comeal thickness; SD = standard deviation. (Tukey post hoc - ANOVA test for repeated measures) All thicknesses are expressed in µm. Total CT was calculated including the epithelium when present. The surface of the contact lens, if present, was excluded in any case. The properative thickness describes the minimal corneal thickness found measuring the residual strong at the bottom of the ulcer. P < .001 between preoperative thickness and 1-day-postoperative total GT and between preoperative thickness and 12 months total GT (paired Student / teet) "P < .001 between 1 week and 1 and 3 months. *P < .001 between 1 week and 1 month. *P = .003 between 1 and 3 months. ¹P = .008 between 3 and 6 months. 135 µm 570 µm 405 µm



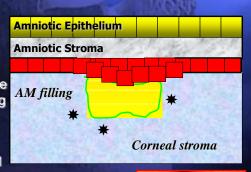




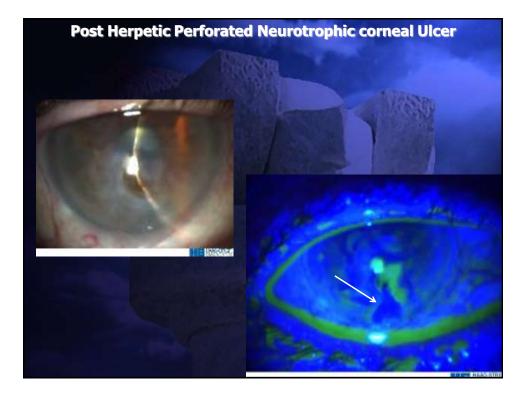
Multi-layer AMT

1. Multiple layers of AM can integrate into the corneal stroma with resulting increase in corneal thickness

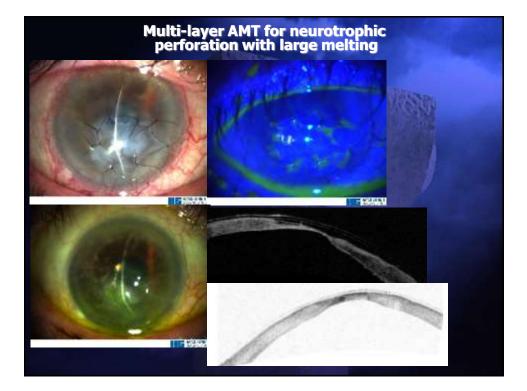
2. This appears to be related to reepithelization of the transplanted AM

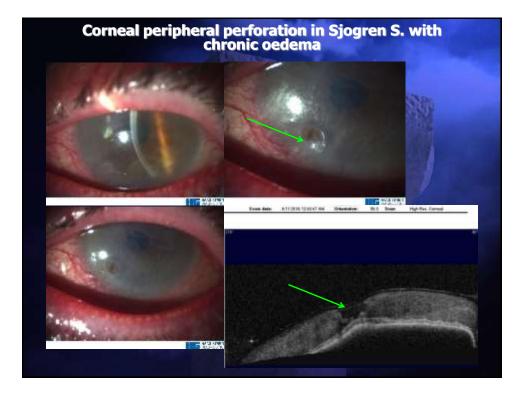


3. Integrated amnion within the stromal defect undergoes progressive changes including contraction of tissue and repopulation by corneal-stroma-derived cells









Multi-layer AMT for perforated PUK (intraoperative OCT)



