The Use of Therapeutic Contact Lenses and Amniotic Membrane Transplant for Tectonic Purposes in Corneal Perforations in Neurotrophic Keratopathies

**AUTHORS:** Stanila Adriana **, Mihai Elena *, Teodor Adrian **, Botezan Andreea *, Ionut Costache **, Dan Stanila **.

Emergency Hospital Sibiu *
Faculty of Medicine “V. Papilian” Sibiu **
Ocular Surface Research Center Sibiu
AIM OF STUDY

• The study intends to reveal the role of the therapeutic contact lenses (TCL) and of the amniotic membrane transplant for tectonic purpose in corneal perforations induced by neurotrophic keratopathies.
MATERIAL, METHOD

- In 8 cases with corneal perforation induced by neurotrophic keratopathies we applied therapeutic contact lenses +/- transplant of amniotic membrane.
RESULTS, DISCUSSIONS

• In small perforations we used only therapeutic contact lenses. In some cases we applied a patch of amniotic membrane for blocking the perforation + a transplant of amniotic membrane on the ocular surface stabilized with a TCL.
We present the case of C.I., 49 years old – LE: neurotrophic keratopathy stage 3 (corneal perforation), after recidivated herpetic keratitis.

The topic treatment consisted of nonsteroidian anti-inflammatories, antitivirals, corneal trophics, therapeutic contact lens.

It was necessary to apply an amniotic membrane with favorable post operatory evolution.
• In another case with neurotrophic keratopathy we noticed an amelioration of the symptoms after applying the therapeutic contact lens;
CONCLUSIONS

• TCL and amniotic membrane transplant provides good tectonic effects in corneal perforations induced by neurotrophyc keratopathies.

• TCL maintains for longer time a vivid amniotic membrane covering the surface of the eye, offering more of its effects (anti-inflammatory effect, immuno-modulating effect, reepithelization effect etc.)