

# Abstract of Our Published H100 Tissue Penetration Study

## TRANSDERMAL APPLICATION OF H100 GEL TO THE PENILE SHAFT IN PATIENTS WITH PEYRONIE'S DISEASE INFILTRATES THE TUNICA ALBUGINEA

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### ABSTRACT

Treatment options for Peyronie's disease (PD) remain limited. Topical H100 gel, (Hybrid Medical, Edina, USA), which contains nicardipine, super oxide dismutase and emu oil showed safety and efficacy in a previous small double-blind placebo-controlled pilot study. The present study evaluates if topically applied H100 gel applied to the penile shaft infiltrates the tunica albuginea. Nicardipine is a key active ingredient in H100 and serves as a surrogate marker.

3 men already scheduled to undergo a planned surgical procedure for PD applied commercially available H100 gel twice daily to the penile shaft for up to 30 days prior to the procedure. Tunica albuginea samples were obtained at surgery. Nicardipine evaluation was performed using isotope dilution technique via liquid-chromatograph-mass spectrometry (LCMS).

All 3 patients tolerated H100 gel application without side effects. All 3 tunica albuginea specimens showed detectable nicardipine in the tunical tissue.

Transdermal application of commercially available H100 gel is able to penetrate the tunica albuginea tissue and is detectable in men with acute and chronic PD. This finding may support the encouraging results found in the prior H100 pilot study.