

# Timolol Maleate Ophthalmic Solution for the Treatment of Recalcitrant Venous Leg Ulcers

Patient at  
16 Weeks  
with  
Timolol  
Treatment



**Case Study:**  
Comparison of  
10 Patients with  
Recurrent Venous  
Leg Ulcers

- Patient Care Provided at a Wound Care Center in Central Florida.
- Patients between the ages of 70 and 83 years.
- Similar Health Histories and Comorbidities.

- Wound Care Included : Weekly Serial Debridement and the Use of Antibacterial Foam Dressing.

**Outcomes:**  
At 16 Weeks All  
Patients Treated  
with Timolol  
Healed; Healing  
Did Not Occur for  
Remaining 6  
Patients

**Clinical Issue:**  
 $\beta$ -Adrenergic  
Receptors May  
Promote Wound  
Epithelization and  
Healing for  
Recalcitrant  
VLUs

**Past  
Management:**  
OTC Topical  
Medications for  
Wound Healing  
Followed by  
Twice Weekly  
Wound Care

- Compression Declined by All Patients.
- No Wound Closure After 10 Weeks.

Patient at  
16 Weeks  
w/out  
Timolol  
Treatment



**Clinical  
Approach:**  
Cauterization and  
Debridement  
Using Silver  
Nitrate and Honey  
Alginate

- Standard Course of Treatment Provided for 10 Weeks.
- Failure of Wounds to Heal Measured by Decrease in Necrotic Tissue.
- Four Patients: Treated with Timolol.