

MAXIOCEL – 100% CHITOSAN WOUND DRESSING ON FEMORAL DEEP VEIN THROMBOSIS

Center

- INDO VASC Hospital , Ahmedabad-India: Dr. Srujal Shah

Patient details	65 years , Female
Comorbidities	Diabetes & Hypertension
Patient symptoms	Patient suffering from extreme pain and exudating wounds
Diagnostic Evaluation	Stage 1 – Emergency IVC filter placement. Stage 2 – Open Venous Thrombectomy Stage 3 – Wound debridement for dead ischemic calf muscles Stage 4 – VAC Therapy for large calf wound Stage 5 – Suturing under LA with drain
Confirmed	Massive ilio femoral DVT presented as phlegmesia cerulea dolens
No of MaxioCel used & Duration	4 MaxioCel ; results received in 2 weeks



Wound before using MaxioCel



Wound after using MaxioCel and complete healing seen

Result

Patient Outcome with MaxioCel	Ease of Application / Removal	Anti-microbial barrier	Wound adherence	Conformability	Wound scar improvement	Pain management
Excellent						
Good						
Fair						
Poor						

Discussion

- Venous thromboembolism (VTE) is the most serious and potentially fatal complication that can arise from DVT. Venous conditions are implicated in compromised wound healing. Postthrombotic syndrome is caused by persistent outflow occlusion, scarred or incompetent valves, and dependent positioning of lower extremities. Both venous ulceration and chronic venous insufficiency are exacerbated by increased venous hypertension; thus, often postthrombotic syndrome is demonstrated even in the absence of DVT. Consequently, patients with venous ulcers should have their venous disease carefully evaluated to determine if past or present increased venous hypertension is contributing to delayed healing. One study demonstrated the most important factor affecting ulceration and ambulatory venous pressure in post DVT patients was valvular incompetence. Ulceration did not occur in patients with persistent occlusion and competent valves. Similar findings of the importance of valvular competence were reported in another study assessing long-term sequelae of DVT. Because 80% to 85% of all leg ulcers are associated with venous hypertension, compression and leg elevation remain key factors in alleviating symptoms and promoting healing.
- MaxioCel is a non-woven microfibre dressing made up of 100% Chitosan, is highly absorbent antimicrobial dressing with pain reduction and scar improvement properties. It can be used for moderate to heavily exuding wounds of varied depth, shape and size.
- Overall, MaxioCel was also found to be an excellent chitosan wound dressing in patients suffering from Femoral DVT