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Objective:	Upon completion of the lecture, attendees should be better prepared to: <ul style="list-style-type: none">▪ Determine the level of patient satisfaction in undergoing CO2 laser therapy for scars arising from CEA placement.▪ Describe advantages of CO2 laser therapy.
Abstract:	<p>Introduction: Studies show that symptomatic burn scars arising from autografts respond to CO2 laser treatments. Patients report decrease in pruritus, hypersensitivity, and increase flexibility of scar tissue. A literature search resulted no studies in which CO2 laser were applied to cultured epithelial autografts (CEA). This study will evaluate the effectiveness of the application of CO2 laser on burn scars arising from CEA by survey. Survey will assess improvement in pain, pruritus, and flexibility post treatment.</p> <p>Methods: We have performed a retrospective review of patients who have had CEAs and have undergone CO2 Laser Therapy treatments. Qualitative data will include feedback related to the patient’s perspective on how helpful the treatment was for their scar, whether it improved the appearance of the scar, whether the treatment affected the thickness and smoothness of the scar, and input related to pain and itching.</p> <p>Results: Review of records, there is evidence that patients with scars arising from CEA placement respond similarly to CO2 lasers as compared to patients with hypertrophic scarring, it seems well tolerated and with no complications noted.</p> <p>Conclusions: Although a limited data set, patients with CEA placement can develop the same post-op complications (i.e. symptomatic hypertrophic scar). The application of CO2 laser in this patient population appears to be safe. Prospective studies to analyze scar outcome with validated tools would be indicated.</p> <p>References and Resources:</p> <ol style="list-style-type: none">1) Levi, B, et al., (2016) Use of CO2 fractional photo thermolysis for treatment of burn scars. Journal of Burn Care and Research, (37)2, 106-114.2) Hultman, C. S., et al., (2014). Laser resurfacing and remodeling of hypertrophic burn

scar: the result of a large, prospective before and after cohort study, with long term follow up. *Annals of Surgery*, 260(3), 519-532.

Disclosure:

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