ABSTRACT BOOK ABSTRACTS



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DERMATOLOGICAL SURGERY

BARBED SUTURES: A NEW SUTURE MATERIAL APPLIED IN DERMATOLOGIC SURGERY TO MODULATE INCISION TENSION AND PREVENT SCAR FORMATION

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Introduction: Successful wound closure of surgical procedures, for which suturing can play a critical role, influences healing, surgical site infection(SSI) risk, and hypertrophic scar formation. Recently, a new class of suture material—barbed suture—has been introduced into osteology, orthopedics, Urology and gynecology. The new synthetic sutures eschew the traditional, smooth, knot-requiring characteristic of sutures in favor of barbs that serve to anchor the sutures to tissue without knots.

Objective: To compare outcomes between barbed sutures and conventional sutures among patients undergoing dermatologic surgery.

Materials and Methods: A controlled trial was performed on patients undergoing skin operation on scalp/legs/shoulders between 1 October 2016 and 1 February 2018. Patients were randomly classified as barbed sutures group and conventional sutures group. All operations were conducted by one experienced surgeon. Scar performance was analyzed in a 6-month follow-up session.

Results: Compared with the conventional suture group, the barbed suture group had statistically significant shorter operating time, narrower scar width and lower POSAS total score. With respect to the outcome of complication, the rate of SSI was non-significantly higher in the barbed sutures group than in the conventional sutures group. Furthermore, barbed sutures call for higher technique requirement of double layer closing procedure.

Conclusions: Use of barbed sutures was associated with shorter operation time and reliable reduction of wound tension. It is the first study to show that barbed suture is a new but exciting addition to the variety of suture materials in dermatologic surgery.





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