

# 2019 NEHS Annual Meeting Abstract Submission

ABSTRACT TITLE *	Early Results of Thumb CMC Arthroplasty using a Rolled Human Collagen Implant
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Name of who will present abstract at NEHS meeting on December 6, 2019 Please note that the same person cannot present more than one abstract at the meeting. *	Arnold-Peter C Weiss MD
Please indicate if the presenter is: *	<ul style="list-style-type: none"><li>• Not currently a resident or fellow</li></ul>
List full names of abstract authors *	none

**ABSTRACT – should include background information and a description of methods, programs, or practices. \***

The early experience (ave 6 mths followup) of the clinical results of using a rolled human collagen implant for thumb CMC arthroplasty in 12 patients. The hypothesis is that greater pinch strength with equal or better pain relief scores versus traditional methods will be found.

In addition, biomechanical testing of the implant in cadavers versus trapeziectomy, suture suspension and LRTI was performed.

Patients had slightly better pain scores in the collagen implant group than traditional surgical methods, significantly greater height preservation on radiographs and significantly better pinch strength measurements at 2 and 4 months post-op. Patients with a previous classic method in the contralateral side preferred the implant method.

Biomechanical testing in cadavers demonstrated 6 times greater resistance to space collapse in the implant group versus the 3 classic surgical methods.

Early results of this rolled human collagen implant used for thumb CMC arthroplasty have encouraging results with likely better restoration of pinch strength compared to classic treatment options.
