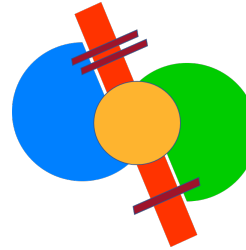




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Centro R.I.T.M.O.  
Ricerca e Innovazione in Traumatologia,  
chirurgia della Mano e Ortopedia  
«Giorgio Brunelli»



# Cuff Plus Procedure for the Treatment of Large to Massive Rotator Cuff Tears

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**Boston**  
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June 18–June 21

# Disclosure: COI

## ***G. Milano***

- Arthrex, Inc: Paid consultant; Paid presenter or speaker; Research support
- CONMED Linvatec: Paid presenter
- FGP srl: Research support
- Greenbone: Research support
- Medacta: Research support

**All other authors have nothing to disclose**

# Background

**Pauzenberger L, Heuberer PR, Dyrna F, Obopilwe E, Kriegleder B, Anderl W, Mazzocca AD.**  
Double-Layer Rotator Cuff Repair: Anatomic Reconstruction of the Superior Capsule and Rotator Cuff Improves Biomechanical Properties in Repairs of Delaminated Rotator Cuff Tears.  
Am J Sports Med. 2018;46(13):3165-3173.

**Milano G, Marchi G, Bertoni G, Vaisitti N, Galli S, Scaini A, Saccomanno MF.**  
Augmented Repair of Large to Massive Delaminated Rotator Cuff Tears With Autologous Long Head of the Biceps Tendon Graft: The Arthroscopic "Cuff-Plus" Technique.  
Arthrosc Tech. 2020 Oct 27;9(11):e1683-e1688.



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# Purpose

To evaluate the clinical outcome of the cuff plus procedure for the treatment of large to massive rotator cuff tears

## Hypothesis

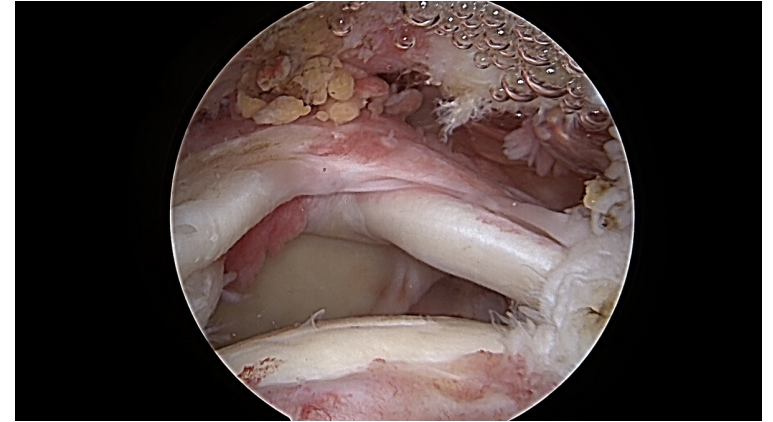
This new surgical technique could improve subjective and functional outcomes

# Methods

**Study design:** Retrospective study

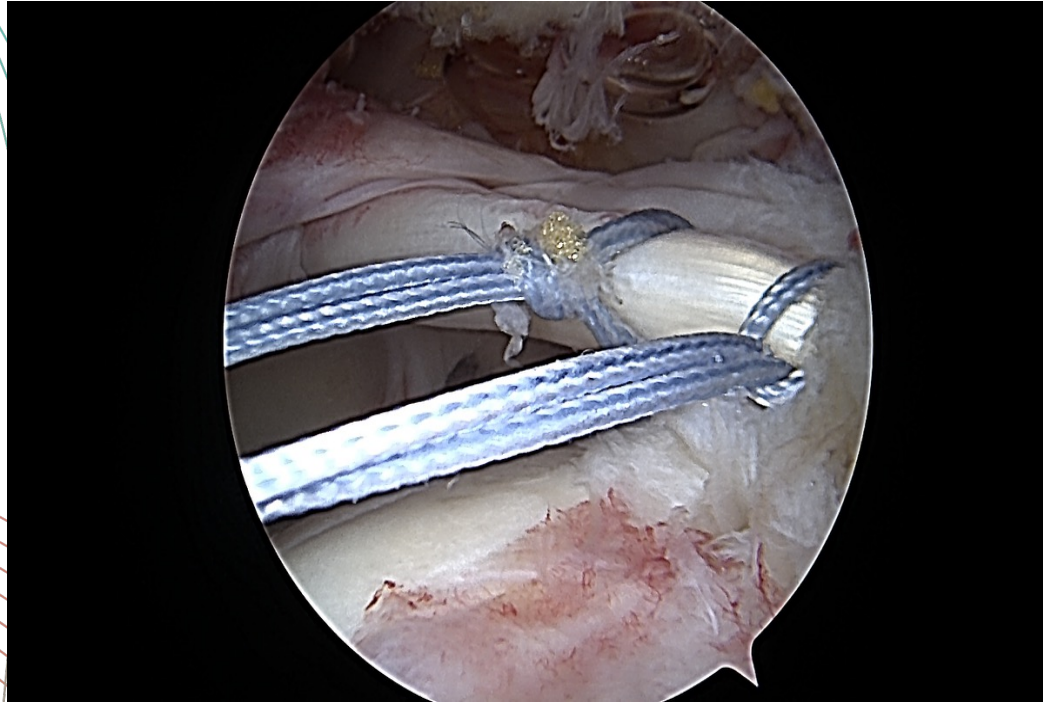
**Participants:**

- Patients with large to massive delaminated rotator cuff tears of the posterosuperior rotator cuff who underwent the cuff plus procedure
- Minimum follow-up (F-U):  $\geq 24$  months

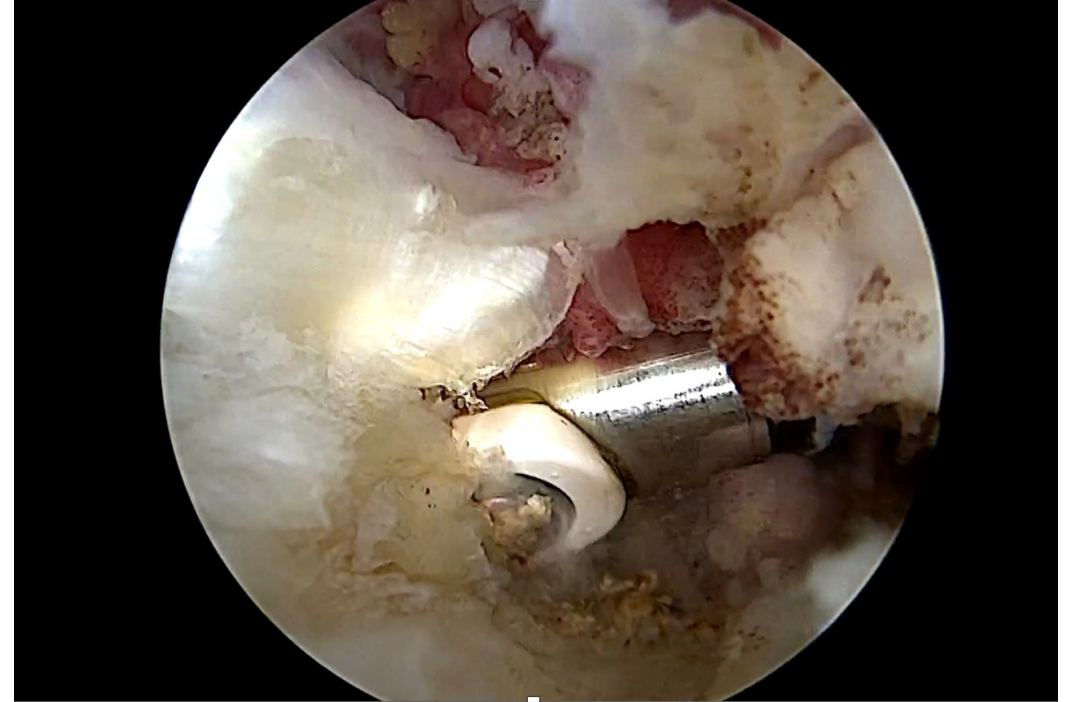




# Surgical technique

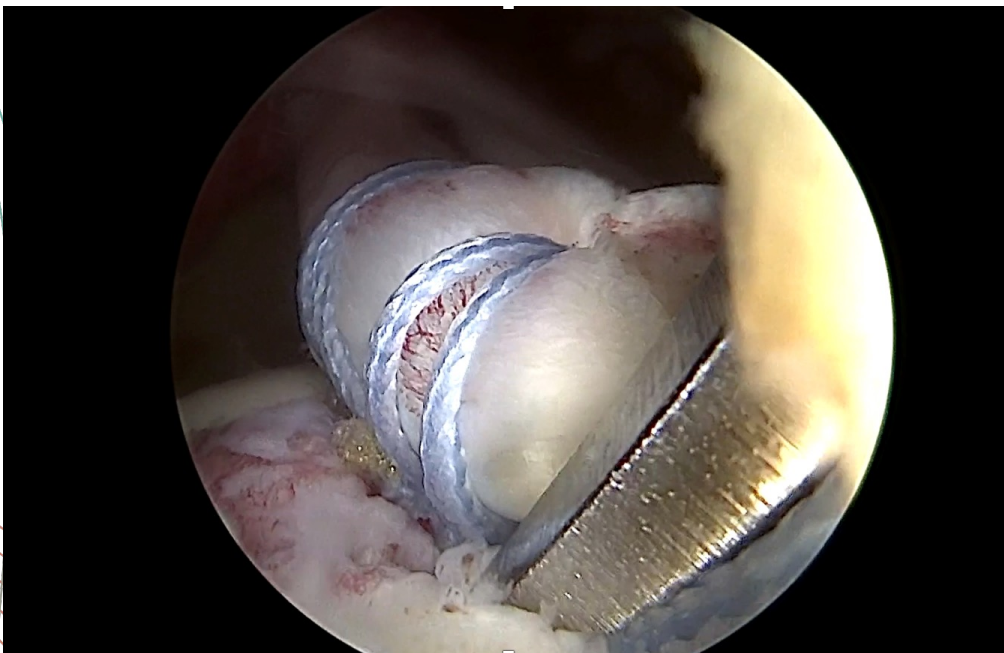


Lasso-loop configuration

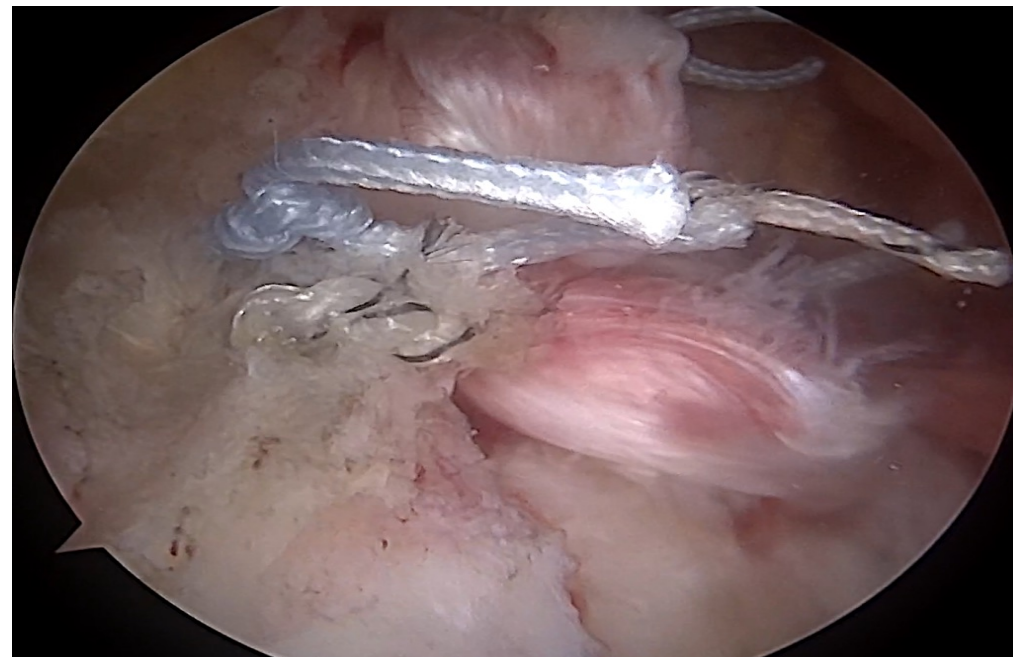


LHBT tenotomy

# Surgical technique



A knotless PEEK anchor is used to fix the LHB into the SSP footprint.



A standard cuff repair, is performed

# Methods

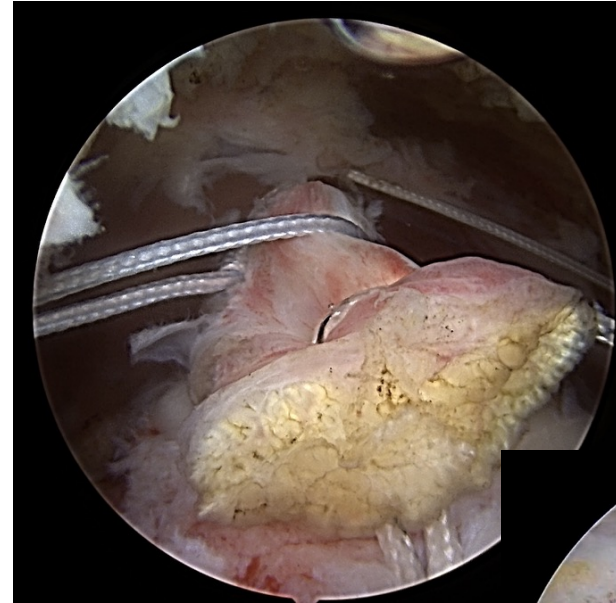
## Outcome measures

- Primary: ASES score
- Secondary
  - Quick-DASH
  - WORC



# Results

- 15 patients
  - M:F=11:4
  - Mean age:  $63.3 \pm 7.83$  yrs
- Mean follow-up
  - $28.40 \pm 5.74$  months



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# Results

Comparison between pre- and postoperative functional scores

	Baseline	Follow-up	p value
Quick-DASH	59.99 ± 22.22	22.27 ± 20.23	<0.0001
WORC	39.31 ± 23.35	75.21 ± 20.65	<0.0001
ASES	31.77 ± 21.29	79.45 ± 22.67	<0.0001

# Conclusions

Arthroscopic cuff plus technique for the treatment of large to massive rotator cuff tears provides satisfactory functional and structural outcomes

## LIMITATIONS:

- Retrospective study
- No control group

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