

## Complications After ... Trapezectomy



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## Conflict of Interest

FX Solution, Zimmer, Medartis, Evolutis, Wright,  
Springer, Elsevier,  
University hospital & Medical School of Besançon

*Conflict of friendship ... thank's to*  
B Lefebvre ... and the Belgian Hand Group

## The true advantage of trapezectomy is ...

Revue de chirurgie orthopédique et traumatologique (2012) 98, 415–416

Disponible en ligne sur  
ScVerse ScienceDirect  
www.sciencedirect.com

Elsevier Masson France  
EM|consulte  
www.elsevier.com/locate/orthotra

PRATIQUE PROFESSIONNELLE

**Detection of orthopaedic implants in travelers at airport security gates:  
How to advise the patient?**

R. Luth\*, L. Obert, N. Lecomte

EA 4268 Innovation, Imagerie, ingénierie et intervention en santé - I45 - 978 133 Inseam, service d'orthopédie, de traumatologie, de chirurgie plastique, reconstructrice et assistance main, université de Franche Comté, CHU Jean-Minajac, 25000 Besançon, France

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## How a so simple technique can give complications ?



## Main complications

### Trapezectomy & Pain ...

- Delay to reach stable and useful thumb
- Loss of strength
- No improvement with adjuncts (LTRI ...)
- No improvement with arthroscopy
- Thighrope ?



## Trapezectomy & Pain


### Proximalisation and Conflict with scaphoid or trapezoid



## Trapezectomy & Pain

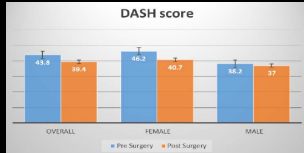
Secondary to carpal instability

Yuan BJ, et al J HSA 2009

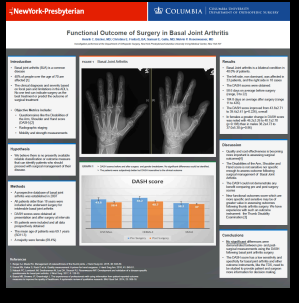


## Trapezectomy & Pain

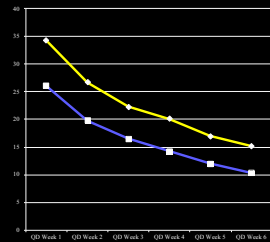
No differences ... before & after



Group	Pre Surgery	Post Surgery
OVERALL	44.8	39.8
FEMALE	46.2	40.3
MALE	38.3	37




## Delay to reach stable and usefull thumb



Week	Carpal Tunnel	Prosthesis
QD Week 1	35	25
QD Week 2	28	20
QD Week 3	22	18
QD Week 4	18	15
QD Week 5	15	12
QD Week 6	12	10

Loisel F - Obert L GEM 12

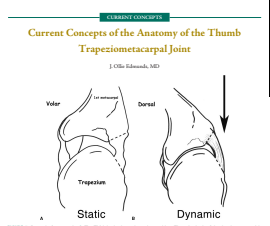
## Delay to reach stable and usefull thumb



## Loss of strength

Current Concepts of the Anatomy of the Thumb Trapeziometacarpal Joint

J. Ellis Edwards, MD



Static Dynamic

You loose the fixed point

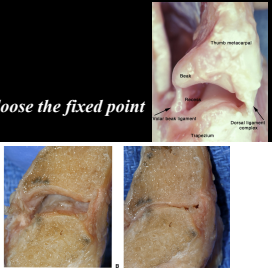


FIGURE 8. Current concepts of the TM joint. These digital dissections were created by starting at the TM joint, which is found deep through the plane of the distal ligament complex, the volar hook, and the volar hook ligament. A The volar hook TM joint is in the resting position. The TM joint is flat. The volar hook is disengaged from the trapezoid crest, and both the volar hook ligament and the distal ligament complex are relaxed. B The TM joint is in active thumb opposition position; the joint is supported by the volar hook complex and the distal ligament complex. The volar hook ligament is taut, and the distal ligament complex is relaxed and taut. (Continued on next slide.) (Continued on next slide.) (Continued on next slide.)

## No improvement with «plasty» (LTRI)

Retrospective / Comparative / N = 200 Thumbs / FU = 1 Y

trapeziectomy alone / trapeziectomy with ligament reconstruction and tendon interposition

Complications : 39%

Major (REOP) = 5%

More complications in « adjunction » group

Naram A et al Hand (N Y) 2016

## *No improvement with arthroscopy*

No differences ... after 1 year

*Liverneux P  
Lyon Wrist 2016*

## *Thighrope ?*

## *Outcome comparison of primary trapeziectomy versus secondary trapeziectomy*

N = 16/15

No differences

*Kuszap B et al J Hand Surg Am 2013*

## *How to treat ?*

**Trapezectomy & Pain ...**

**Delay to reach stable and usefull thumb**

**Loss of strength**

**No improvement with adjunctions (LTRI ...)**

**No improvement with arthroscopy**

**Thighrope ?**

You can't remove a trapezectomy !



## *How to prevent ?*

**Trapezectomy & Pain ...**

**Delay to reach stable and usefull thumb**

**Loss of strength**

**No improvement with adjunctions (LTRI ...)**

**No improvement with arthroscopy**

**Thighrope ?**

Prefer partial trapezectomy + interposition ( pyrocarbone / cartilage ...)

Or ...

Prosthesis

## *Conclusion*

Trapezectomy is the gold standard ...



Less ideas you have, more you believe in