

TMC Prosthesis complications

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ccmbrussels.be



2016

Hand Surg Rehabil. 2016 Jun;35(3):190-198. doi: 10.1016/j.hansur.2016.02.005. Epub 2016 May 31.

Complications and failures of the trapeziometacarpal Maia® prosthesis: A series of 156 cases.

Bricout M¹, Rezzouk J².

156 MAIA 2008-2012

- 16,0% Tendinitis de Quervain
- 4,5% Dislocation
- 2,6% Loosening
- 11,5% Surgical revision
- 7,7% Failure Trapezectomy
- 90,8% Survival rate at 5y

JHS

The Journal of Hand Surgery

ASSH American Society for Surgery of the Hand

MAIA Trapeziometacarpal Joint Arthroplasty: Clinical and Radiological Outcomes of 80 Patients With More than 6 Years of Follow-Up

Adriano Toffoli, MD, Jacques Teissier, MD

Published Online: July 13, 2017

DOI: <https://doi.org/10.1016/j.jhsa.2017.06.008>

2006 - 2009:

- 96 Maia at 6 y (Publication 2017)
- 6 % Dislocation
- 4,6% Loosening
- 3,1% Post-traumatic fractures
- 8,3% Revision of the Tmc prosthesis
- 5,2% Failure Trapezectomy
- 93% Survival rate at 6 y

Full Length Article

JHS(E)

Can surgical guidelines minimize complications after Maia® trapeziometacarpal joint arthroplasty with unconstrained cups?

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Peter Caekenbeek and Joris Duerinckx

- 50 Maia mai 2011-mai 2012
- 0% dislocation
- 5% post traumatic loosening
- 0% spontaneous loosening
- 2% wear of PE
- 4% revision
- 4% Trapezectomy failure
- 96% survival rate at 56 m

2017

EDITOR'S CHOICE

Joint Survival Analysis and Clinical Outcome of Total Joint Arthroplastics With the ARPE Implant in the Treatment of Trapeziometacarpal Osteoarthritis With a Minimal Follow-Up of 5 Years

Katrien Coops, MD,^a Jeroen Vanhaecke, MD,^a Marleen Deziel, MD,^b Joen Barth, MD,^b Hans Potrel, MD,^c Filip Stockmans, MD, PhD^d

Continuing Medical Education

166 Implants 2003 - 2010

4,8 % Dislocation

1,0% Loosening - 1,0% subsidence

3,0% Failure trapezectomy

96% Survival rate min 5y

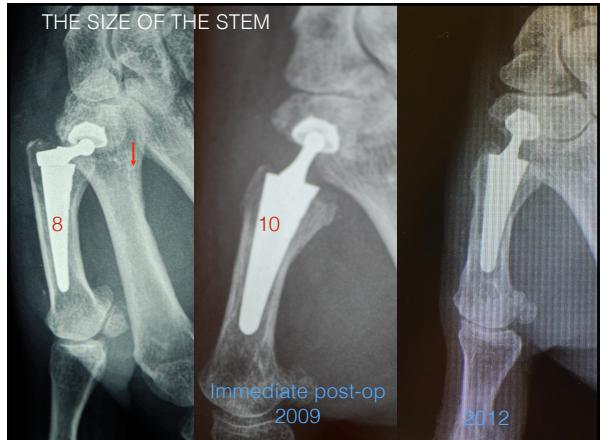
Complications	Martin Ferrero 1999-2002 (n=60)	Bricout Rezzout 2008-2010 (n=156)	TOFFOLI TESSIER 2006-2009 (n=96)	COOTJANS VANHAECKE 2003-2010 (n=166)	CAKEBEKE DUEPINCK 2011-2012 (n=50)
Tendinopathy		16 %			16 à 17%
Dislocation	6 %	4,5 %	1 %	4,8 %	0 %
Loosening	1,5 %	2,6 %	4,2 %	1% Loosening 1% Enfouissement	5% posttraumatique 0% spontané
Surgical revision	4,6 %	11,5 %	4,2		4 %
Failure Trapeziectomy	7,7 %	7,7 %	5,2 %	3 %	4 %
Survival rate	92,3 % at 10y	90,8% at 5y	93% at 6y	96% at 80m	96% à 56 m

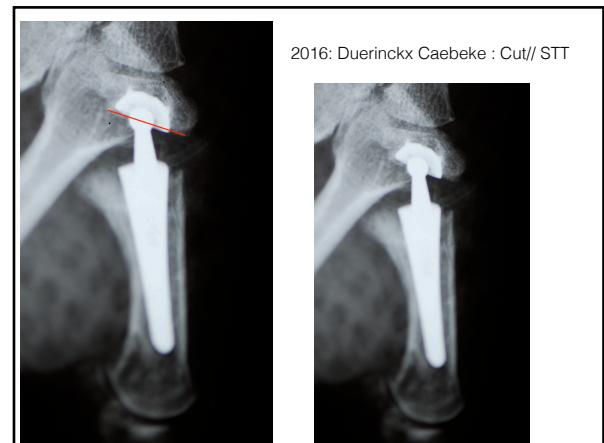
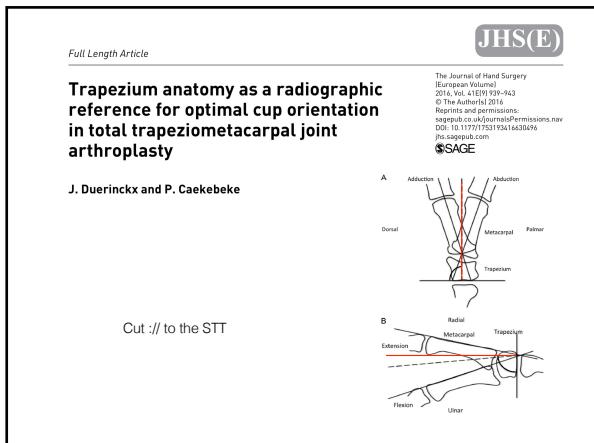
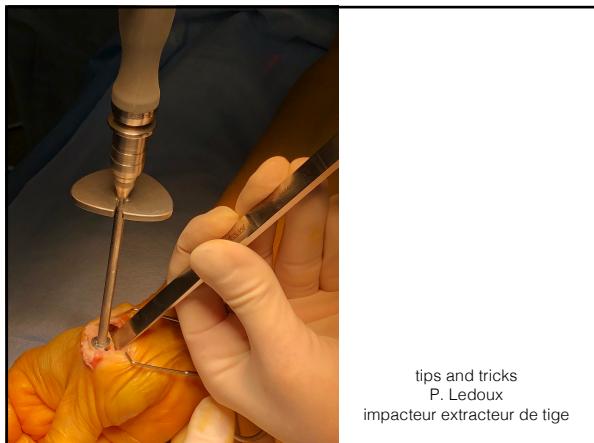
P.Ledoux. Échec de prothèse totale trapézo-métacarpienne non cimentée.
Ann Chir Main Memb Super 1997;16:215-21.

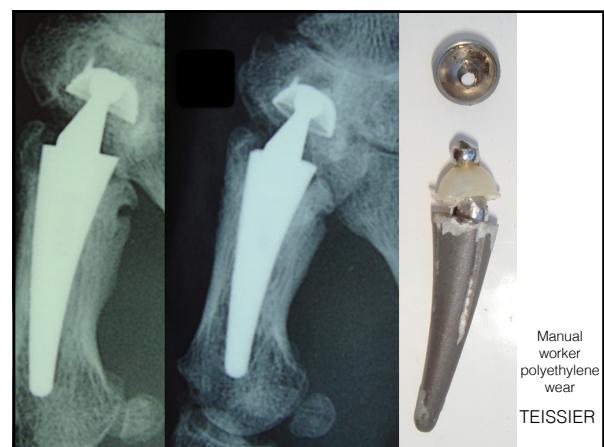
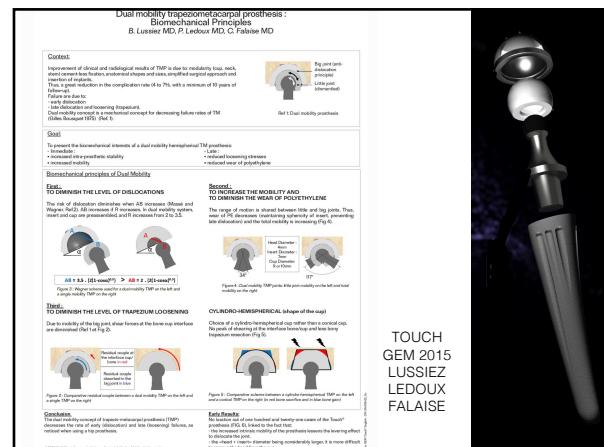
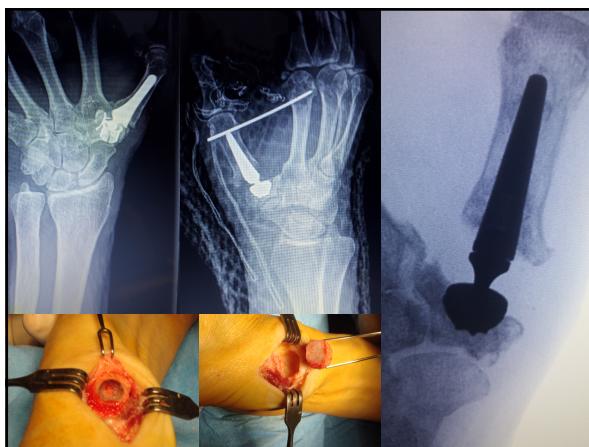
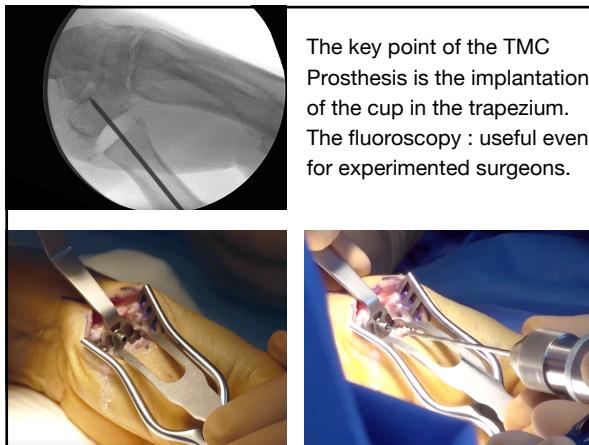
PROTHESE TMC: CHIRURGIE TECHNIQUEMENT DIFFICILE
La plupart des complications sont liées à des erreurs techniques.

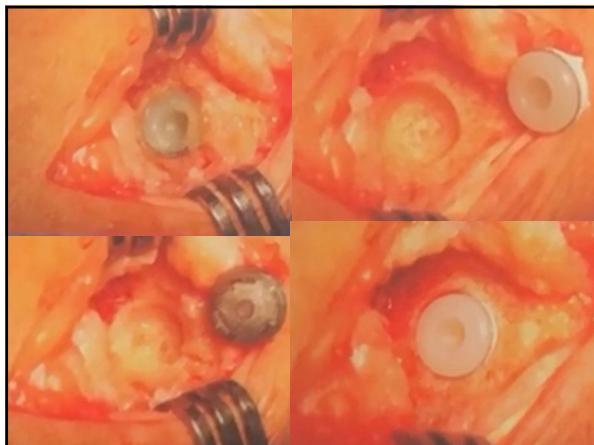


- Stem: axis, size, quality of the bone
- Cup: fracture du trapèze, bad orientation of the cut, bad centralization of the cup, standard or semi-constrained cup
- Neck: straight ou angulated, double mobility









CONCLUSION

The TMC prosthesis is a technically demanding procedure. Most of the complications are correlated to technical errors.
Failure rate 8 >3-4%
Survival rate at 5 y: 92>96%
Survival rate at 10 y: 90%