



A novel pyrolytic carbon implant for hallux rigidus: a cadaveric study

Submitted by a.bergoend on Mon, 04/27/2015 - 16:32

Titre	A novel pyrolytic carbon implant for hallux rigidus: a cadaveric study
Type de publication	Article de revue
Auteur	Apard, Thomas [1], Casin, Charles [2], Moubarak, Elie [3], Bizot, Pascal [4]
Type	Article scientifique dans une revue à comité de lecture
Année	2011
Langue	Anglais
Date	2011 Sep
Pagination	182-185
Volume	17
Titre de la revue	Foot and Ankle Surgery
ISSN	1460-9584
Mots-clés	Cadaver [5], Carbon [6], Hallux Rigidus [7], Humans [8], Protheses and Implants [9], Prosthesis Design [10]
Résumé en anglais	<p>BACKGROUND: The aim of this cadaveric study was to assess the technical feasibility of inserting a novel interpositional pyrolytic carbon coated implant in the first MTP joint, determine the best surgical procedure for the implantation, and evaluate the dynamic behavior of the joint after surgery.</p> <p>METHODS: The marble implant was inserted in the first metatarsophalangeal joint of five pairs of cadaveric feet using two different surgical approaches, dorsal and medial, for each pair. The stability and mobility of the feet before and after implantation, as well as the relationship between the implant and the sesamoids, were assessed by static and dynamic fluoroscopy.</p> <p>RESULTS: After implantation, the stability was perfect in all positions and the mobility was conserved. There were no conflicts between the sesamoids and the implant during the movement of the first metatarsophalangeal joint. Both the dorsal and the medial surgical approaches led to similar findings.</p> <p>CONCLUSION: To our knowledge, this is the first anatomic evaluation of this type of implant. Whereas the results of the technique obtained on cadaveric feet were satisfactory, caution has to be applied to trying to apply this procedure to the living patient.</p>
URL de la notice	http://okina.univ-angers.fr/publications/ua10393 [11]
DOI	10.1016/j.fas.2010.06.002 [12]
Titre abrégé	Foot Ankle Surg
Identifiant (ID) PubMed	21783081 [13]

Liens

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- [11] <http://okina.univ-angers.fr/publications/ua10393>
- [12] <http://dx.doi.org/10.1016/j.fas.2010.06.002>
- [13] <http://www.ncbi.nlm.nih.gov/pubmed/21783081?dopt=Abstract>

Publié sur *Okina* (<http://okina.univ-angers.fr>)