



# Correction to: Restricted kinematic alignment leads to uncompromised osseointegration of cementless total knee arthroplasty

Guillaume Laforest<sup>1</sup> · Lazaros Kostretzis<sup>1</sup> · Marc-Olivier Kiss<sup>1,2</sup> · Pascal-André Vendittoli<sup>1,2,3</sup> 

Published online: 22 February 2021  
© The Author(s) 2021

## Correction to:

**Knee Surgery, Sports Traumatology, Arthroscopy**  
<https://doi.org/10.1007/s00167-020-06427-1>

Authors would like to correct the error in their original publication of the article.

Figure 3b and 3c have been switched. The image 3c should be 3b and 3b should be 3c. Correct version of Fig. 3 updated here.

The original article has been corrected.

---

The original article can be found online at <https://doi.org/10.1007/s00167-020-06427-1>.

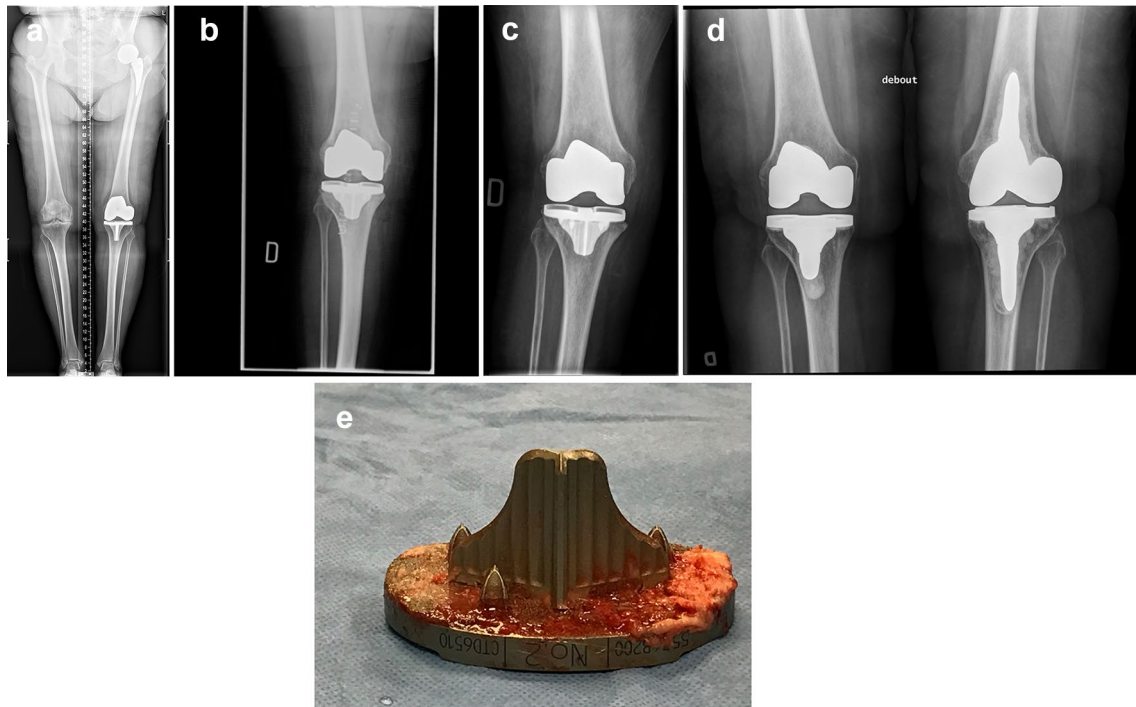
---

✉ Pascal-André Vendittoli  
[pa.vendittoli@me.com](mailto:pa.vendittoli@me.com)

<sup>1</sup> Surgery Department, Hôpital Maisonneuve-Rosemont, Université de Montréal, 5415 Boul l'Assomption, Montreal, QC H1T 2M4, Canada

<sup>2</sup> Clinique Orthopédique Duval, Laval, QC, Canada

<sup>3</sup> Personalized Arthroplasty Society, Montreal, Canada



**Fig. 3** **a** Pre-op long leg AP view radiograph of a 76-year-old female with severe medial OA where LDFA is measured at  $87.5^\circ$  (valgus) and MPTA at  $88.1^\circ$  (varus), leading to an arithmetic HKA of  $0.6^\circ$ . **b** Immediate post-op AP radiograph showing uncemented TKA implants in acceptable orientation:  $88.0^\circ$  LDFA,  $0^\circ$  MPTA and arithmetic HKA of  $2.0^\circ$ . **c** Patient sustained a fall in stairs 4 weeks after surgery. Sudden and persisting pain and swelling were present. This is an AP view radiograph, 8 weeks post-op, showing a  $5^\circ$  valgus shift of the tibial implant (MPTA changed from  $90^\circ$  to  $95^\circ$  (LDFA was maintained at  $88.0^\circ$ ). **d** Patient being unsatisfied with her lower limb alignment (HKA:  $7^\circ$  valgus) and having medial knee pain (medial

collateral ligament over tensioned), she requested a TKA revision surgery. During revision procedure, the femoral implant was well fixed and considered well aligned. Tibial implant was revised alone, changing its orientation and using a cemented version. AP view radiograph post revision showing tibial implant's MPTA at  $88.0^\circ$ , combined leading to an arithmetic HKA of  $0^\circ$  when combined with the femoral implant LDFA of  $88.0^\circ$ . **e** Removal of the well-fixed uncemented tibial implant was demanding, especially to break the osseous bonding behind the keel. Here is a photograph of the removed uncemented tibial implant where cancellous bone attachment is observed on the whole porous surface

**Open Access** This article is licensed under a Creative Commons Attribution 4.0 International License, which permits use, sharing, adaptation, distribution and reproduction in any medium or format, as long as you give appropriate credit to the original author(s) and the source, provide a link to the Creative Commons licence, and indicate if changes were made. The images or other third party material in this article are included in the article's Creative Commons licence, unless indicated otherwise in a credit line to the material. If material is not included in the article's Creative Commons licence and your intended use is not

permitted by statutory regulation or exceeds the permitted use, you will need to obtain permission directly from the copyright holder. To view a copy of this licence, visit <http://creativecommons.org/licenses/by/4.0/>.

**Publisher's Note** Springer Nature remains neutral with regard to jurisdictional claims in published maps and institutional affiliations.