

1 Name of journal: *World Journal of Orthopedics*

2 ESPS Manuscript NO: 14660

3 Columns: Original Articles

4

5 *Prospective Study*

6 Nerve compression and pain in human volunteers with narrow *vs* wide tourniquets

7

8 Florian M Kovar, Manuela Jaendl, Gerhard Oberleitner, Georg Endler, Julia

9 Breitenseher, Daniela Prayer, Gregor Kasprian, Florian Kutscha-Lissberg

10

11 **Abstract**

12 **AIM:** To assess the clinical effects and the morphological grade of nerve compression

13

14 **METHODS:** In a prospective single-center randomized, open study we assessed the

15 clinical effects and the morphological grade of nerve compression during 20 minutes

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Another consideration is the pressure or compression damage to ... nerve rarely leading to nerve damage ("tourniquet paralysis") and possibly ... Wide VS. Narrow Tourniquet. When the tourniquet is wide enough, there is a portion of tissue ... extremity of 20 young healthy volunteers on two separate days. ... in more severe.

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Tourniquet pain is one of the most intriguing pains for the anesthesiologist ... study of 20 patients, all the patients were subjected to wide as well as narrow ... of fibula or malleoli as there is risk of direct nerve compression.<sup>21</sup> Hence, ..... Near infrared monitoring of human skeletal muscle oxygenation during forearm ischemia.

### Tourniquet use in upper limb surgery