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No difference in periprosthetic bone loss and fixation between a standard length stem and a shorter version in cementless total hip arthroplasty. A randomized controlled trial

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1 No difference in periprosthetic bone loss and fixation between a standard length stem 2 and a shorter version in cementless total hip arthroplasty. A randomized controlled trial. 3 4 Jörg Schilcher, Ingemar Ivarsson, Rico Perlbach and Lars Palm 5 6 All from the Department of Experimental and Clinical Medicine and the Department of 7 8 Orthopedics, Faculty of Health Science, Linköping University, Linköping, Sweden 9 Correspondence 10 11 Jörg Schilcher Department of Experimental and Clinical Medicine 12 Faculty of Health Science 13 Linköping University 14 15 SE-581 85 Linköping Sweden 16 E-mail: jorg.schilcher@regionostergotland.se 17 18 Phone: +46 10 1034183 Fax: +46 10 1034305 19 20 Ingemar Ivarsson: ingemar.ivarsson@regionostergotland.se 21 Rico Perlbach: rico.perlbach@regionostergotland.se 22 Lars Palm: lars.palm@regionostergotland.se 23 24 25

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