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Harmonising measures of knee and hip osteoarthritis in population-based cohort studies: an international study

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ACCEPTED MANUSCRIPT Harmonising measures of knee and hip osteoarthritis in population-based cohort studies: an 1 2 international study 3 Authors: Leyland, K.M.<sup>1,2</sup>, Gates, L.S.<sup>1,3</sup>, Nevitt, M.<sup>4</sup>, Felson, D.<sup>5</sup>, Bierma-Zeinstra, S.M.<sup>6,7</sup>, 4 Conaghan, P.G.<sup>8</sup>, Engebretsen, L.<sup>9</sup>, Hochberg, M.<sup>10</sup>, Hunter, D.J.<sup>11, 12</sup>, Jones, G.<sup>13</sup>, Jordan, J.M.<sup>14,15</sup>, 5 Judge, A.<sup>1</sup> Lohmander, L.S.<sup>16</sup>, Roos, E.M.<sup>17</sup>, Sanchez-Santos, M.T.<sup>1</sup>, Yoshimura, N.<sup>18</sup>, van Meurs, 6 J.B.J.<sup>19</sup>, Batt, M.E.<sup>20</sup>, Newton, J.<sup>1</sup>, Cooper, C.<sup>1,3</sup>, Arden, N.K<sup>1,3</sup> 7 8 <sup>1</sup>NIHR Musculoskeletal Biomedical Research Unit and Arthritis Research UK Centre for Sport, 9 Exercise, and Osteoarthritis, University of Oxford, Oxford, UK 10 <sup>2</sup>MRC Integrative Epidemiology Unit, University of Bristol, Bristol, UK 11 <sup>3</sup> MRC Lifecourse Epidemiology Unit, University of Southampton, Southampton, UK 12 <sup>4</sup>Department of Epidemiology and Biostatistics, University of California, San Francisco, CA, USA 13 14 <sup>5</sup>Clinical Epidemiology Research and Training Unit, Boston University School of Medicine, Bos-15 ton, MA, USA <sup>6</sup> Department of General Practice, Erasmus University Medical Centre, Rotterdam, the Netherlands 16 <sup>7</sup>Department of Orthopaedics, Erasmus University Medical Centre, Rotterdam, the Netherlands 17 <sup>8</sup>Leeds Institute of Rheumatic and Musculoskeletal Medicine, University of Leeds & NIHR Leeds 18 19 Musculoskeletal Biomedical Research Unit, Leeds, UK 20 <sup>9</sup>Department of Orthopaedic Surgery, Oslo University Hospital and Oslo Sports Trauma Research 21 Center, Norwegian School of Sports Sciences, Oslo, Norway <sup>10</sup>University of Maryland School of Medicine, Baltimore, USA 22 <sup>11</sup>Institute of Bone and Joint Research, Kolling Institute, University of Sydney, Sydney, Australia 23 <sup>12</sup>Rheumatology Department, Royal North Shore Hospital, St Leonards, Sydney, Australia 24 25 <sup>13</sup>Menzies Research Institute Tasmania, University of Tasmania, Hobart, Australia <sup>14</sup>Thurston Arthritis Research Center, University of North Carolina at Chapel Hill, Chapel Hill, NC 26 27 USA <sup>15</sup>Department of Medicine, University of North Carolina at Chapel Hill, Chapel Hill, NC USA 28 <sup>16</sup>Lund University, Department of Clinical Sciences Lund, Orthopaedics, Lund, Sweden 29 <sup>17</sup> Institute of Sports Science and Clinical Biomechanics, University of Southern Denmark, Odense, 30 31 Denmark <sup>18</sup>Department of Joint Disease Research, 22nd Century Medical & Research Center, Faculty of 32 33 Medicine, The University of Tokyo, Tokyo, Japan <sup>19</sup>Department of Internal Medicine, Erasmus University Medical Center, Rotterdam, the Nether-34 35 lands 1

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