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Appendix A

Table S1. Brooker Classification System of Heterotopic Ossification Following Total Hip Arthroplasty*

Grade	Description
0	No ectopic bone formation
I	Bone islands within the soft tissue
II	Bone spurs arising from proximal femur and/or pelvis with ≥ 1 cm space between ends
III	Bone spurs arising from proximal femur and/or pelvis with < 1 cm space between ends
IV	Bone ankylosis of the hip

* Adapted from Brooker et al.⁹

Appendix B

Table S2. WOMAC Scores at 24 Months Comparing Functional Outcomes in Participants with Heterotopic Ossification (HO) (Classes I and II, according to Brooker Classification) to those without HO (n=1154)

WOMAC§	n (%)	Mean adjusted difference (99% CI) *	p-value
Total score	581 (50.3)	-1.54 (-5.73 to 2.65)	0.34
Pain score	637 (55.2)	-0.48 (-1.26 to 0.30)	0.11
Stiffness score	638 (55.3)	0.09 (-0.31 to 0.49)	0.56
Function score	587 (50.9)	-1.26 (-4.55 to 2.03)	0.32

* The mean difference was adjusted to baseline scores and obtained from the multilevel model.

§ Minimally important difference (MID) was set at 7 points for the Western Ontario and McMaster Universities Osteoarthritis Index (WOMAC).

Appendix C

Table S3. WOMAC Scores at 24 Months Comparing Functional Outcomes in Participants with Heterotopic Ossification (HO) (Classes III and IV, according to Brooker Classification) to those without HO (n=1218)

WOMAC§	n (%)	Mean adjusted difference (99% CI) *	p-value
Total score	510 (41.9)	8.23 (0.56 to 15.89)	0.006
Pain score	560 (46.0)	1.46 (-0.06 to 2.97)	0.01
Stiffness score	561 (46.1)	0.51 (-0.22 to 1.24)	0.07
Function score	515 (42.3)	5.81 (-0.16 to 11.78)	0.01

* The mean difference was adjusted to baseline scores and obtained from the multilevel model.

§ Minimally important difference (MID) was set at 7 points for the Western Ontario and McMaster Universities Osteoarthritis Index (WOMAC).

Appendix D

Table S4. WOMAC Scores at 24 Months Comparing Functional Outcomes in Participants with Heterotopic Ossification (HO) (Classes III and IV, according to Brooker Classification) to those without HO or with Low Severity HO (Classes I and II) (n=1441)

WOMAC§	n (%)	Mean adjusted difference (99% CI) *	p-value
Total score	608 (42.2)	8.66 (1.06 to 16.27)	0.003
Pain score	667 (46.3)	1.54 (0.10 to 2.98)	0.006
Stiffness score	668 (46.4)	0.49 (-0.23 to 1.21)	0.08
Function score	614 (42.6)	6.21 (0.26 to 12.16)	0.007

* The mean difference was adjusted to baseline scores and obtained from the multilevel model.

§ Minimally important difference (MID) was set at 7 points for the Western Ontario and McMaster Universities Osteoarthritis Index (WOMAC).

Appendix E

Table S5. WOMAC Scores at 24 Months Comparing Functional Outcomes in Participants with Class III Heterotopic Ossification (HO) (according to Brooker Classification) to those with Low Severity HO (Classes I and II) (n=282)

WOMAC§	n (%)	Mean adjusted difference (99% CI) *	p-value
Total score	124 (8.7)	11.40 (2.18 to 20.61)	0.002
Pain score	136 (9.5)	2.15 (0.43 to 3.86)	0.001
Stiffness score	136 (9.5)	0.46 (-0.39 to 1.30)	0.16
Function score	125 (8.7)	8.41 (1.48 to 15.36)	0.002

* The mean difference was adjusted to baseline scores and obtained from the multilevel model.

§ Minimally important difference (MID) was set at 7 points for the Western Ontario and McMaster Universities Osteoarthritis Index (WOMAC).

Appendix F

Table S6. WOMAC Scores at 24 Months Comparing Functional Outcomes in Participants with Severe Heterotopic Ossification (HO) (Classes III and IV, according to Brooker Classification) to those with Low Severity HO (Classes I and II) (n=287)

WOMAC§	n (%)	Mean adjusted difference (99% CI) *	p-value
Total score	125 (8.7)	10.77 (1.70 to 19.83)	0.002
Pain score	137 (9.5)	2.06 (0.38 to 3.75)	0.002
Stiffness score	137 (9.5)	0.41 (-0.42 to 1.25)	0.20
Function score	126 (8.7)	7.95 (1.13 to 14.76)	0.003

* The mean difference was adjusted to baseline scores and obtained from the multilevel model.

§ Minimally important difference (MID) was set at 7 points for the Western Ontario and McMaster Universities Osteoarthritis Index (WOMAC).