

Supplementary article data

Good outcome of total hip replacement in patients with cerebral palsy

A comparison of 389 patients and 425,813 controls from the National Joint Registry for England and Wales

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Submitted 2015-04-28. Accepted 2015-11-05.

Table 4. Comparison of patient-time incidence rates (PTIRs, per 1,000 patient-years) between CP patients and controls, according to reason for revision

Reason for revision	CP		Controls	
	Number	Rate	Number	Rate
Relating to all linked primaries	(total patient-time 1.4 x 1,000 years)		(total patient-time 1,566.1 x 1,000 years)	
1 Pain	5	3.57 (1.49–8.59)	2,150	1.37 (1.32–1.43)
2 Dislocation/subluxation	4	2.86 (1.07–7.62)	1,902	1.22 (1.16–1.27)
3 Infection	2	1.43 (0.36–5.72)	1,506	0.96 (0.92–1.01)
4 Aseptic loosening	6	4.29 (1.93–9.55)	2,499	1.60 (1.54–1.66)
5 Lysis	1	0.71 (0.10–5.07)	509	0.33 (0.30–0.35)
6 Periprosthetic fracture	7	5.00 (2.39–10.50)	1,099	0.70 (0.66–0.75)
7 Implant fracture	0	0	292	0.19 (0.17–0.21)
8 Implant wear	0	0	427	0.27 (0.25–0.30)
9 Head socket size mismatch	0	0	90	0.06 (0.05–0.07)
10 Malalignment	3	2.14 (0.69–6.65)	895	0.57 (0.54–0.61)
11 Other indication for revision	2	1.43 (0.36–5.72)	1,031	0.66 (0.62–0.70)
Relating to linked primaries >2008	(total patient-time 0.6 x 1,000 years)		(total patient-time 663 x 1,000 years)	
12 Soft tissue ^a	1	1.55 (0.22–11.01)	420	0.63 (0.58–0.70)

^a This field was not included until later questionnaires, and so was analyzed separately for years when fully implemented.

Table 5. Patient-reported outcomes (PROMS). Values are frequency (%)

Variable Outcomes	CP	Controls	p-value ^a
SATISFACTION			0.7
Excellent	22 (41)	35,288 (39)	
Very Good	14 (26)	32,127 (35)	
Good	13 (24)	16,810 (18)	
Fair	3 (6)	5,735 (6.3)	
Poor	2 (4)	1,733 (1.9)	
Total	54 (100)	91,693 (100)	
SUCCESS			0.1
Much Better	43 (78)	78,564 (86)	
A little better	7 (13)	8,704 (10)	
About the same	1 (2)	2,297 (2.5)	
A little worse	1 (2)	1,331 (1.5)	
Much worse	3 (6)	905 (1)	
Total	55 (100)	91,801 (100)	
WOUND (Any wound problems after the operation)			0.05
Yes	9 (18)	8,487 (10)	
No	40 (82)	76,020 (90)	
BLEEDING (Any bleeding after the operation)			0.4
Yes	4 (9)	4,793 (6)	
No	40 (91)	78,114 (94)	
URINE (Urinary problems after the operation)			0.03
Yes	11 (24)	11,247 (13)	
No	35 (76)	73,256 (87)	
ALLERGY (Any drug allergies after the operation)			0.8
Yes	6 (13)	10,011 (12)	
No	41 (87)	75,765 (88)	
READMITTED (Patient readmitted after the operation)			0.01
Yes	9 (16)	6,716 (7)	
No	46 (84)	85,061 (93)	
FUTHER SURGERY (Patient has had another operation on the affected area)			0.08
Yes	3 (5)	1,921 (2)	
No	52 (95)	89,932 (98)	

^a Two-sample Wilcoxon rank-sum (Mann-Whitney) test

Age distribution of primary hip procedures, %

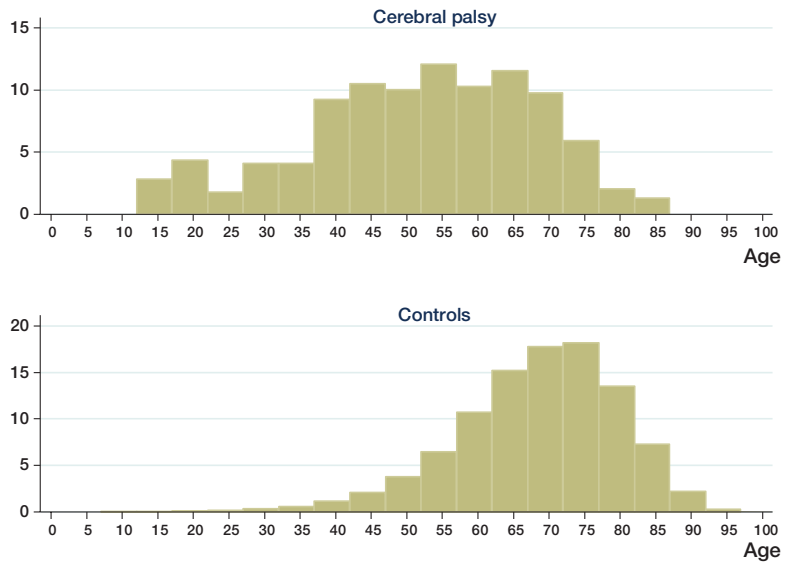


Figure 3. Age distribution of primary hip procedures. Comparison of CP patients and controls.

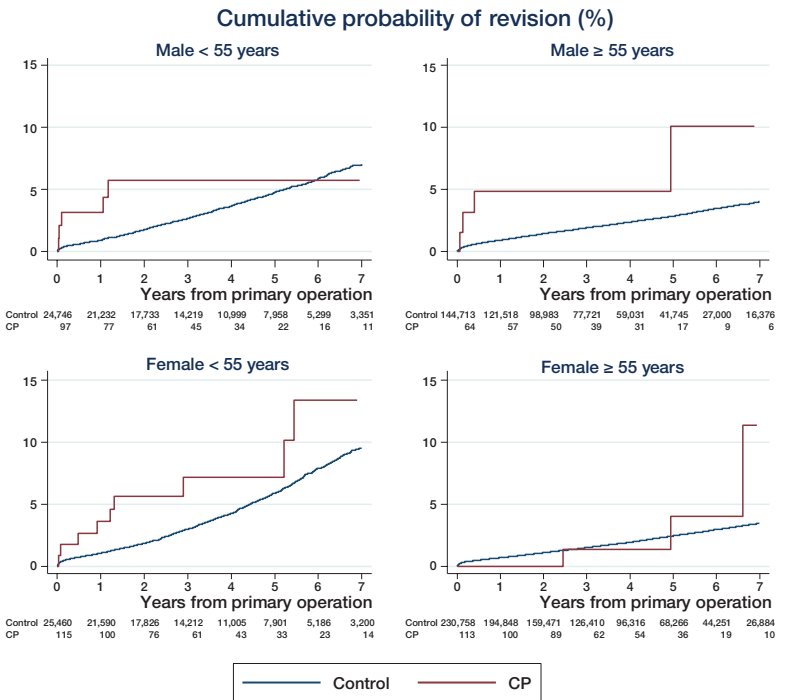


Figure 4. Cumulative probability of revision.