

Table A3: The perioperative impact of anaesthesia technique with or without PNB use in THA/TKA presented in risk ratios

THA		
Complications	Total RR	N
Mortality ^{6, 43}	0.61 (CI 0.36 - 1.03)	342,826
Cardiac without MI ^{6, 43, 44}	*0.84 (CI 0.77 - 0.93)	342,941
Myocardial infarction ^{44, 45}	1.00 (CI 0.14 - 7.07)	277
Pulmonary ^{6, 43, 44, 46-48}	*0.70 (CI 0.61 - 0.81)	343,198
Respiratory failure ^{43, 46-48}	*0.49 (CI 0.29 - 0.82)	357
Pneumonia ⁴⁴	0.34 (CI 0.01 - 8.15)	115
Gastrointestinal ^{6, 44}	*0.55 (CI 0.43 - 0.70)	342,841
Renal ^{6, 43}	*0.67 (CI 0.59 - 0.76)	342,826
Renal failure ⁴³	0.33 (CI 0.01 - 7.99)	100
Cognitive Dysfunction/Delirium ^{43, 46, 49-51}	*0.40 (CI 0.26 - 0.62)	723
Stroke ⁶	0.83 (CI 0.53 - 1.29)	342,726
Surgical site infection ^{6, 43, 45, 47}	*0.56 (CI 0.48 - 0.65)	343,091
Any infection ^{6, 44}	*0.72 (CI 0.65 - 0.79)	342,841
Sepsis ^{43, 47}	0.33 (CI 0.03 - 3.12)	203
Thromboembolism ^{6, 47, 52, 53}	*0.74 (CI 0.58 - 0.96)	342,955
Perioperative nerve injury ^{47, 48, 54-56}	0.72 (CI 0.38 - 1.36)	11,410
Blood transfusion ^{6, 44, 51, 57, 58}	*0.87 (CI 0.86 - 0.89)	873,079
Blood loss ^{47, 48, 51, 52, 59-63}	10.61 (CI -4.28 - 25.50)	454
Critical care admission ^{6, 54}	*0.91 (CI 0.87 - 0.96)	342,885
Length of stay ^{44, 53, 54, 63-67}	*-0.36 (CI -0.42 - -0.31)	872
TKA		
Complications	Total RR	N
Mortality ^{6, 29, 43, 70-76}	1.07 (CI 0.92 - 1.24)	932,102
Cardiac without MI ^{6, 43, 44, 72-75, 77-80}	*0.83 (CI 0.79 - 0.87)	720,282
Myocardial infarction ^{44, 71-73, 78, 81-83}	0.57 (CI 0.19 - 1.76)	1,360
Pulmonary ^{6, 43, 44, 72-74, 80, 81, 84-96}	*0.84 (CI 0.79 - 0.89)	721,469
Respiratory failure ^{43, 74, 80, 84, 85, 87-94}	*0.40 (CI 0.21 - 0.78)	1,246
Pneumonia ^{44, 72, 73, 86, 95, 96}	1.15 (CI 0.48 - 2.74)	705
Gastrointestinal ^{6, 44, 73, 74, 81, 83, 89, 96, 97}	0.93 (CI 0.84 - 1.04)	720,230
Renal ^{6, 43, 73, 74, 83, 95}	0.96 (CI 0.91 - 1.02)	720,111
Renal failure ^{43, 73, 74, 83, 95}	0.82 (CI 0.34 - 2.00)	685
Cognitive Dysfunction/Delirium ^{43, 49, 72, 81-83, 88, 98-102}	*0.58 (CI 0.41 - 0.84)	1,563
Stroke ^{6, 72, 81, 95}	0.95 (CI 0.76 - 1.18)	719,734
Surgical site infection ^{70 103 72 87 99 104 105 106 107 108 109 95 110 96 73 74 111 83 112 76 112 6 43 113 114}	*0.86 (CI 0.80 - 0.91)	796,090
Any infection ^{6, 44, 72, 73, 76, 86, 89, 95, 96, 103, 115}	*0.77 (CI 0.73 - 0.81)	789,622

Sepsis ^{43, 73, 74}	1.37 (CI 0.27 - 6.89)	433
Thromboembolism ^{6, 72-74, 76, 79, 81, 83, 85, 87, 95, 99, 104-106, 108, 110, 111, 113, 116-119}	*0.90 (CI 0.84 - 0.96)	790,835
Perioperative nerve injury 86, 95, 104, 120, 121	1.42 (CI 0.88 - 2.29)	9,018
Blood transfusion ^{6, 44, 51, 57, 58, 73, 74, 122}	*0.92 (CI 0.91 - 0.93)	1,250,014
Blood loss ^{71, 74, 93, 94, 97, 105, 122-124}	*-42.53 (CI -52.08 - -32.98)	890
Critical care admission ^{6, 70, 74, 83}	†1.07 (CI 1.04 - 1.09)	719,767
Readmission ^{29, 76}	*0.66 (CI 0.62 - 0.71)	146,453
Length of stay ^{70 86 125 71 126 44 72 87 127 99 104 128 129 130 123 90 105 91 92 118 120 131 132 133 134 119 95 135 136 68 137 138 139 80 69 67 112 69 140 68 141 98 142 68 69 143 29 144 68 68 68 122 145 85 114 68 68 68}	0.02 (CI -0.01 - 0.04)	86,770

* $P < 0.05$; MI: myocardial infarction; Pulmonary: pulmonary complications excluding pneumonia; CNS: central nervous system complications; All infections: all infections including pneumonia and sepsis; OR: odds ratio; CI: confidence interval; NA: neuraxial anaesthesia; GA: general anaesthesia; N (NA/GA): total number of patients with neuraxial/general anaesthesia