

**Supplemental Table S2.** Laboratory Analysis of Bloodwork and Joint Aspirate and Pathology of Intraoperative Specimens

Descriptive	All Outcomes				Prosthesis Survival			Aseptic Loosening			Recurrent PJI		
	All Patients	Male	Female	p Value	Male	Female	p Value	Male	Female	p Value	Male	Female	p Value
<i>Joint Aspirate</i>													
Absolute Cell Number [/ $\mu$ L]	20,294 $\pm$ 32,438	26,868 $\pm$ 41,471	13,719 $\pm$ 16,399	0.111	23,776 $\pm$ 38,645	14,528 $\pm$ 16,263	0.377	18,818 $\pm$ 36,209	8,911 $\pm$ 15,583	0.178	33,337 $\pm$ 46,363	26,499 $\pm$ 16,283	0.830
PMN [/ $\mu$ L]	18,398 $\pm$ 29,955	24,074 $\pm$ 38,130	12,721 $\pm$ 15,734	0.166	21,708 $\pm$ 35,163	13,212 $\pm$ 16,095	0.419	3,488 $\pm$ 33,519	8,507 $\pm$ 14,990	0.312	32,551 $\pm$ 42,466	24,316 $\pm$ 14,940	0.787
PMN [%]	64.7 $\pm$ 26.9%	63.1 $\pm$ 27.7%	66.4 $\pm$ 25.4%	0.662	64.7 $\pm$ 27.9%	65.7 $\pm$ 26.4%	0.925	52.5 $\pm$ 27.9%	62.8 $\pm$ 25.8%	0.858	57.8 $\pm$ 26.4%	81.6 $\pm$ 12.6%	0.235
<i>CRP [mg/L]</i>													
Preoperative Prosthesis Removal	39.8 $\pm$ 59.2	50.7 $\pm$ 77.1	31.2 $\pm$ 36.4	0.092	47.8 $\pm$ 77.6	31.0 $\pm$ 33.5	0.264	41.2 $\pm$ 73.8	21.2 $\pm$ 33.5	0.128	56.2 $\pm$ 79.2	46.7 $\pm$ 43.4	0.761
Postoperative Prosthesis Removal	9.9 $\pm$ 13.4	8.4 $\pm$ 7.6	11.0 $\pm$ 16.5	0.316	9.8 $\pm$ 8.5	10.5 $\pm$ 12.1	0.789	3.9 $\pm$ 8.2	12.5 $\pm$ 17.5	0.445	6.7 $\pm$ 4.6	10.7 $\pm$ 8.9	0.246
Preoperative Prosthesis Reimplantation	49.3 $\pm$ 33.2	54.7 $\pm$ 37.0	44.8 $\pm$ 28.6	0.149	54.9 $\pm$ 36.5	45.4 $\pm$ 28.3	0.288	36.7 $\pm$ 34.2	38.7 $\pm$ 29.1	0.278	60.9 $\pm$ 41.4	52.3 $\pm$ 23.3	0.619
<i>Pathology</i>													
Type I [%] (No. of Patients)	19.3% (21)	20.4% (10)	18.3% (11)	0.962	15.6% (5)	17.1% (6)	0.673	42.9% (3)	57.1% (4)	0.531	25.0% (3)	10.0% (1)	0.411
Type II [%] (No. of Patients)	37.6% (41)	34.7% (17)	40.0% (24)	0.653	37.5% (12)	40.0% (14)	0.870	14.3% (1)	71.4% (5)	0.426	33.3% (4)	40.0% (4)	0.543
Type III [%] (No. of Patients)	25.7% (28)	28.6% (14)	23.3% (14)	0.591	31.3% (10)	22.9% (8)	0.508	14.3% (1)	42.9% (3)	0.770	25.0% (3)	30.0% (3)	0.823
Type IV [%] (No. of Patients)	15.6% (17)	16.3% (8)	15.0% (9)	0.862	15.6% (5)	17.1% (6)	0.878	28.6% (2)	42.9% (3)	0.694	16.7% (2)	0.0% (0)	0.197
N/A [%] (No. of Patients)	19.3% (21)	20.4% (10)	18.3% (11)	0.366	0.0% (0)	2.9% (1)	-	0.0% (0)	0.0% (0)	-	0.0% (0)	10.0% (1)	0.273