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Supplement of

Characteristics and outcomes of culture-negative prosthetic joint infections from the Prosthetic Joint Infection in Australia and New Zealand Observational (PIANO) cohort study

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Supplementary

Table S1: Case details of 10 culture negative PJI cases not meeting EBJIS PJI criterion for ‘definitive’ or ‘likely’

Patient No.	Age at diagnosis	Joint type	Indication	Infection category	Clinical findings	Diagnostic features and investigations									24-month outcome
						Baseline CRP (mg/L)	Closed joint aspiration	Purulence surrounding the prosthesis	Intraoperative synovial fluid sent for culture	No. periprosthetic tissue specimens submitted for	No. periprosthetic specimens submitted for histopathology	Neutrophils PHPF & histology findings	90-day Surgical management		
1	53	Hip	Primary	Early postoperative	Fever, local inflammation	-	-	Yes	-	-	-	-	-	DAIR	Successful
2	84	Knee	Primary	Late acute	Local inflammation	158	-	Yes	-	2	-	-	-	DAIR	Unsuccessful
3	63	Hip	Primary	Late acute	Nil	17	-	Yes	Yes	-	-	-	-	DAIR	Successful
4	85	Knee	Primary	Chronic	Local inflammation	180	-	Yes	Yes	6	-	-	-	DAIR	Unsuccessful
5	72	Shoulder	Primary	Late acute	Fever, local inflammation	236	-	Yes	Yes	-	-	-	-	DAIR	Successful

6	73	Hip	Primary	Unclassifiable	Nil	-	-	Yes	Yes	4	6	4	Benign fibrous connective tissue	One stage revision	Successful
7	75	Knee	Primary	Unclassifiable	Local inflammation	116	-	Yes	Yes	4	-	-		Two stage revision	Successful
8	75	Hip	Primary	Unclassifiable	Fever, local inflammation	89	-	Yes	-	6	-	-		DAIR	Successful
9	70	Knee	Neither primary nor infective	Early postoperative	Fever, local inflammation	133	-	Yes	Yes	1	-	-		DAIR	Successful
10	61	Shoulder	Primary	Early postoperative	Local inflammation	300	-	Yes	Yes	5	-	-		Excision arthroplasty	Successful

Abbreviations: No., number; CRP, C-reactive protein; PHPF, per high powered field.

Table S2: Presenting features, diagnostic criterion, and outcomes of 16 late acute culture negative prosthetic joint infection managed with debridement, antibiotics, and implant retention

Patient No.	Age, M/F	Joint	Any comorbidity	Clinical findings of fever, local inflammation, or sepsis	Baseline CRP (mg/L)	Closed joint aspiration	Synovial fluid WCC (cells/ μ l) Synovial fluid neutrophil %	Purulence surrounding the prosthesis	Intraoperative synovial fluid sent for culture	No. periprosthetic tissue specimens submitted for culture	No. periprosthetic specimens submitted for histopathology	Histology findings	24-month outcome
1	84, F	Knee	No	Acute inflammation	158	-	-	Yes	-	2	0	-	Unsuccessful
2	81, F	Knee	Yes	Fever, acute inflammation	75	Yes	90%	-	-	6	0	-	Successful
3	82, F	Knee	Yes	Fever, acute inflammation	19	Yes	64000 85%	Yes	Yes	2	0	-	Successful
4	58, F	Elbow	Yes	Fever, acute inflammation	103	Yes	100000 85%	Yes	Yes	7	0	-	Successful
5	61, F	Knee	Yes	Acute inflammation	130	Yes	130000 86%	Yes	Yes	2	0	-	Successful
6	65, F	Knee	No	Fever, acute inflammation	367	Yes	53500	Yes	Yes	3	0	-	Successful

7	63, F	Hip	Yes	Nil	17	-	-	Yes	Yes	Not quantified	-	-	Successful
8	61, F	Knee	Yes	Acute inflammation	130	-	-	Yes	Yes	Not quantified	-	-	Successful
9	82, F	Knee	Yes	Fever, acute inflammation	240	Yes	100%	-	Yes	6	0	-	Successful
10	64, M	Knee	Yes	Fever, acute inflammation	140	Yes	26100 78%	Yes	Yes	5	0	-	Unsuccessful
11	65, F	Knee	No	Fever, acute inflammation	250	Yes	183000 84%	-	Yes	4	0	-	Successful
12	72, F	Shoulder	Yes	Fever, acute inflammation	236	-	-	Yes	Yes	Not quantified	-	-	Successful
13	53, F	Knee	Yes	Fever, acute inflammation	23	Yes	31 97%	Yes	Yes	3	0	-	Unsuccessful
14	58, F	Knee	Yes	Fever, acute inflammation	110	-	1000 96%	-	Yes	3	1	Acute inflammation	Successful

15	68, F	Knee	Yes	Acute inflammation	190	Yes	154000 95%	-	Yes	6	0	-	Successful
16	83, M	Hip	No	Acute inflammation	150	-	-	-	Yes	Not quantified	-	-	Successful

Abbreviations: No., number; M, male; F, female; CRP, C-reactive protein; WCC, white cell count