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Appendix 1

Distribution of Surgical Sites

OTA/AO	Acute Fracture	Implant Removal	Nonunion
Proximal Humerus (11)	2	1	1
Humeral Shaft (12)	3		1
Distal Humerus (13)	1	1	1
Clavicle (15)	2		
Proximal Forearm (21)	1		
Forearm Shaft (22)	3	2	2
Distal Radius (23)	3	2	
Proximal Femur (31)		3	1
Femoral Shaft (32)			1
Distal Femur (33)	3	1	2
Tibial Plateau (41)	9	9	1
Tibial Shaft (42)		2	7
Tibial Pilon (43)	5	5	7
Ankle (44)	5	5	2
Acetabulum (62)	3		
Talus (81)		2	
Calcaneus (82)	3	5	1
Lisfranc (80D, 87)		2	
Chopart Dislocation (80D)		1	
Total	43	41	27

Appendix 2. Any Case with Positive Culture, NGS, or Post-operative Infection (and Speciation if Available)

Acute Fractures			Post-op Infection
Sample ID	Cx Positive Species	NGS Positive Species	
104		+ Staphylococcus epidermidis, Comamonas testosteroni, Cutibacterium acnes, Staphylococcus pettenkoferi	
107		+ Comamonas testosteroni, Cutibacterium acnes, Staphylococcus epidermidis, Escherichia coli, Lactobacillus iners	
111		+ Staphylococcus epidermidis, Anoxybacillus tepidamans, Brevundimonas sp, Xanthomonas campestris, Bacillus coagulans	
113		+ Staphylococcus epidermidis, Comamonas testosteroni, Staphylococcus aureus, Staphylococcus hominis	
115		-	
117		+ Staphylococcus hominis, Acinetobacter baumannii, Staphylococcus haemolyticus, Enterobacter cloacae, Staphylococcus epidermidis, Cronobacter sakazakii	Yes Superficial, No culture taken
119		+ Cutibacterium acnes, Staphylococcus epidermidis, Staphylococcus hominis, Comamonas testosteroni	
120		+ Staphylococcus epidermidis, Comamonas testosteroni, Staphylococcus pasteuri	
126		+ *Gemella morbillorum (below limit)	
127		+ Staphylococcus hominis, Corynebacterium tuberculostearicum, Staphylococcus epidermidis, Anaerococcus octavius	
128		+ Cutibacterium acnes, Staphylococcus epidermidis, Comamonas testosteroni	
130		+ Streptococcus sp, Comamonas testosteroni, Enterococcus cecorum	
132		+ Cutibacterium acnes, Comamonas testosteroni, Staphylococcus epidermidis	
134	Yes	Enterobacter cloacae complex	-
136		+ *Candidatus Burkholderia crenata (below limit)	Yes Deep/Organ space, MRSA
140		+ Staphylococcus pettenkoferi, Staphylococcus hominis	
Implant Removals			
204	Yes	Skin flora	+ Staphylococcus epidermidis
215			-
217			-
218		+ Corynebacterium striatum, Staphylococcus warneri, Corynebacterium jeikeium, Corynebacterium tuberculostearicum, Streptococcus sp, Staphylococcus hominis, Corynebacterium auriscanis, Corynebacterium sp	Yes Superficial, No culture taken
224		-	Yes Superficial, No culture taken
225	Yes	Enterobacter cloacae complex	-
227		+ Staphylococcus hominis, Comamonas testosteroni, Corynebacterium tuberculostearicum, Streptococcus sp	Yes Deep/Organ space, Bacillus sp. & Propionibacterium
228		+ Candidatus burkholderia crenata	Yes Superficial, No culture taken
232		-	
234		+ Candidatus burkholderia crenata, Methylobacterium aminovorans	
242		+ *Burkholderia sp (below limit)	
243	Yes	Pseudomonas aeruginosa	-
244	Yes	Diphtheroids	+ *Staphylococcus capitis, Staphylococcus lugdunensis, Corynebacterium tuberculostearicum (below limit)
Nonunions			
303			+ Candidatus burkholderia crenata, Methylobacterium aminovorans
309			-
310	Yes	CoNS, MSSA	-
311		+ *Comamonas testosteroni, Fungus -> Lecythophora sp, Naganishia diffliens (below limit)	Yes Deep/Organ space, MSSA
312		-	
314		+ *Methylobacterium aminovorans, Methylobacterium tardum, Methylobacterium isbiliense (below limit)	
315		+ Streptococcus thermophilus, Lactococcus lactis	
316		-	
317	Yes	P. acnes, CoNS	-
319		-	
322		+ Sphingomonas elodea	
323	Yes	MSSA	+ Methylobacterium aminovorans
327	Yes	Propionibacterium	-