

Supplementary Table 1 Details of patients with superficial and deep surgical site infections (SSIs) at 2 years follow up after elective primary total hip and knee arthroplasty in old regime (OR) Group (Whole cohort)

Infection Type	Age	Sex	Weight	Procedure	ASA Grade	Diabetes Mellitus	Anti-coagulation	Antibiotic	Dose appropriate?
Deep	69	F	64.7	THA	2	No	No	Cefazolin	Yes
Sup	64	M	123.5	TKA	2	No	No	Cefazolin	No
Sup	79	F	111	TKA	3	No	No	Cefazolin	Yes
Sup	38	M	73.7	THA	2	No	No	Cefazolin	Yes
Sup	88	F	89.1	TKA	2	No	No	Cefazolin	Yes
Sup	84	M	85	TKA	3	No	Yes	Cefazolin	Yes
Sup	78	M	86	TKA	2	No	No	Cefazolin	Yes
Sup	72	M	99.4	TKA	2	Yes	No	Cefazolin	Yes
Sup	59	M	98.1	THA	2	No	No	Cefazolin	Yes

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Sup	58	M	104.9	THA	2	No	No	Cefazolin	Yes
Sup	61	M	84.6	TKA	2	No	No	Cefazolin	Yes
Sup	65	F	87.7	THA	3	No	No	Cefazolin	Yes
Deep	74	F	107.4	TKA	3	No	No	Cefazolin	Yes
Sup	56	M	80.9	THA	2	No	No	Cefazolin	Yes
Deep	85	F	62.0	TKA	2	No	No	Cefazolin	Yes
Sup	65	F	60.5	TKA	2	No	No	Cefazolin	Yes
Sup	62	M	93	THA	2	No	No	Cefazolin	Yes
Deep	67	M	157	TKA	2	Yes	No	Cefazolin	Yes
Deep	54	M	141.9	TKA	3	No	No	Cefazolin	Yes

THA: Total Hip arthroplasty; TKA: Total Knee arthroplasty; M: Male; F: Female; Sup: Superficial surgical site infection; Deep: Deep/organ space infection

Supplementary Table 2 Details of patients with superficial and deep surgical site infections (SSIs) at 2 years follow up after elective primary total hip and knee arthroplasty in new regime (NR) Group (Whole cohort)

Infection Type	Age	Sex	Weight (kg)	Procedure	ASA Grade	Diabetes Mellitus	Anti-coagulation	Antibiotic	Dose appropriate?
Sup	58	F	126.8	THA	3	Yes	Yes	Cefazolin	Yes
Sup	72	F	83.3	TKA	2	No	No	Cefazolin	Yes
Sup	66	M	109.4	TKA	2	No	No	Cefazolin	Yes
Deep	69	F	75.5	THA	3	No	No	Cefazolin	Yes
Sup	69	F	85	TKA	3	No	No	Cefazolin	Yes
Deep	54	M	119	THA	2	No	No	Cefazolin	Yes

Sup	66	M	123.9	TKA	2	No	No	Cefazolin	Yes
Sup	61	F	107.6	TKA	3	No	No	Cefazolin	Yes
Sup	80	M	94.3	TKA	3	No	No	Cefazolin	Yes
Sup	64	F	98.6	TKA	3	No	No	Cefazolin	Yes
Deep	65	F	107.9	TKA	3	No	No	Cefazolin	Yes
Sup	67	M	80	THA		No	Yes	Cefazolin	Yes

THA: Total Hip arthroplasty; TKA: Total Knee arthroplasty; M: Male; F: Female; Sup: Superficial surgical site infection; Deep: Deep/organ space infection

Supplementary Table 3 Details of patients with superficial and deep surgical site infections (SSIs) at 2 years follow up after elective primary total hip and knee arthroplasty in old regime (OR) group (Complete demographic data subset)

Infec tion Type	A ge	Se x	Weight (kg)	Proce dure	AS A Gra	Diab etes Melli tion	Anti coagula tion	Antib iotic	Dose appropria te for
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					de	tus			weight?
Deep	69	F	64.7	THA	2	No	No	Cefazolin	Yes
Sup	64	M	123.5	TKA	2	No	No	Cefazolin	No
Sup	79	F	111	TKA	3	No	No	Cefazolin	Yes
Sup	38	M	73.7	THA	2	No	No	Cefazolin	Yes
Sup	88	F	89.1	TKA	2	No	No	Cefazolin	Yes
Sup	84	M	85	TKA	3	No	Yes	Cefazolin	Yes
Sup	78	M	86	TKA	2	No	No	Cefazolin	Yes
Sup	72	M	99.4	TKA	2	Yes	No	Cefazolin	Yes
Sup	59	M	98.1	THA	2	No	No	Cefazolin	Yes

THA: Total Hip arthroplasty; TKA: Total Knee arthroplasty; M: Male; F: Female; Sup: Superficial surgical site infection; Deep: Deep/organ space infection

Supplementary Table 4 Details of patients with superficial and deep surgical site infections (SSIs) at 2 years follow up after elective primary total hip and knee arthroplasty in new regime (NR) Group (Complete demographic data subset)

Infection type	Age	Sex	Weight (kg)	Procedure	ASA Grade	Diabetes Mellitus	Anti-coagulation	Antibiotic	Dose appropriate for weight?
Sup	58	F	126.8	THA	3	Yes	Yes	Cefazolin	Yes
Sup	72	F	83.3	TKA	2	No	No	Cefazolin	Yes
Sup	66	M	109.4	TKA	2	No	No	Cefazolin	Yes
Deep	69	F	75.5	THA	3	No	No	Cefazolin	Yes
Sup	69	F	85	TKA	3	No	No	Cefazolin	Yes
Deep	54	M	119	THA	2	No	No	Cefazolin	Yes
Sup	66	M	123.9	TKA	2	No	No	Cefazolin	Yes
Sup	61	F	107.6	TKA	3	No	No	Cefazolin	Yes

Sup	80	M	94.3	TKA	3	No	No	Cefazo	Yes
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THA Total Hip arthroplasty

TKA Total Knee arthroplasty

M Male

F Female

Sup Superficial surgical site infection

Deep Deep/organ space infection