Supplemental: Table A: reasons for LOS> 4days and 30 day readmissions

Reasons for LOS >4 days	Total study cohort	Control group	Intervention group
Surgically related	·	<u> </u>	
Anemia	4	2	2
Wound complication	3	1	2
Knee dislocation	1	1	0
Hip dislocation	1	1	0
Fall	2	0	2
Total surgically related	11	5	6
Medically related	Total study cohort	Control group	Intervention group
Stroke	1	0	1
POCD	1	1	0
Cardiac arrest	2	2	0
Pneumonia	1	1	0
Abdominal complication	4	2	2
Renal	3	0	3
Urological	2	0	2
Other medically complication	7	2	5
Pain	1	1	0
Total medical related	22	9	13
Reason for LOS>4 not specified	27	10	17
TOTAL	60	24	36
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Reasons for re-admission 1-30 days	Total study cohort	Control group	Intervention group
Reasons for re-admission 1-30 days Surgically related	Total study cohort	Control group	Intervention group
	Total study cohort 6	Control group	Intervention group 3
Surgically related Prostethic infection – revision surgery Wound infection – only AB			3 4
Surgically related Prostethic infection – revision surgery Wound infection – only AB Wound complication – not infection	6	3	3
Surgically related Prostethic infection – revision surgery Wound infection – only AB	6 6 2 2	3 2	3 4
Surgically related Prostethic infection – revision surgery Wound infection – only AB Wound complication – not infection	6 6 2	3 2 2	3 4 0
Surgically related Prostethic infection – revision surgery Wound infection – only AB Wound complication – not infection Fall and peri-prosthetic fracture	6 6 2 2	3 2 2 2	3 4 0 1
Surgically related Prostethic infection – revision surgery Wound infection – only AB Wound complication – not infection Fall and peri-prosthetic fracture Fall	6 6 2 3 2	3 2 2 2 2 1	3 4 0 1 1
Surgically related Prostethic infection – revision surgery Wound infection – only AB Wound complication – not infection Fall and peri-prosthetic fracture Fall Dislocation	6 6 2 3 2 4	3 2 2 2 2 1 3	3 4 0 1 1
Surgically related Prostethic infection – revision surgery Wound infection – only AB Wound complication – not infection Fall and peri-prosthetic fracture Fall Dislocation Total surgically related	6 6 2 2 3 3 2 4 23 Total study cohort 3	3 2 2 2 1 3 13	3 4 0 1 1 1 10
Surgically related Prostethic infection – revision surgery Wound infection – only AB Wound complication – not infection Fall and peri-prosthetic fracture Fall Dislocation Total surgically related Medically related	6 6 2 2 3 3 2 4 23 Total study cohort	3 2 2 2 2 1 3 13	3 4 0 1 1 1 1 1 1 1 1 10
Surgically related Prostethic infection – revision surgery Wound infection – only AB Wound complication – not infection Fall and peri-prosthetic fracture Fall Dislocation Total surgically related Medically related DVT/PE	6 6 2 2 3 3 2 4 23 Total study cohort 3	3 2 2 2 1 3 13 Control group 2	3 4 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Surgically related Prostethic infection – revision surgery Wound infection – only AB Wound complication – not infection Fall and peri-prosthetic fracture Fall Dislocation Total surgically related Medically related DVT/PE DVT suspected, not found	6 6 2 2 3 3 2 4 4 23 Total study cohort 3 7	3 2 2 2 1 3 13 Control group 2 4	3 4 0 1 1 1 1 10 Intervention group 1 3
Surgically related Prostethic infection – revision surgery Wound infection – only AB Wound complication – not infection Fall and peri-prosthetic fracture Fall Dislocation Total surgically related Medically related DVT/PE DVT suspected, not found Cardiac complication	6 6 2 3 3 2 4 4 23 Total study cohort 3 7 3	3 2 2 2 1 3 13 Control group 2 4 1	3 4 0 1 1 1 10 Intervention group 1 3 2
Surgically related Prostethic infection – revision surgery Wound infection – only AB Wound complication – not infection Fall and peri-prosthetic fracture Fall Dislocation Total surgically related Medically related DVT/PE DVT suspected, not found Cardiac complication Death (unknown reason)	6 6 2 2 3 3 2 4 23 Total study cohort 3 7 3 1 1	3 2 2 2 1 3 13 Control group 2 4 1 1	3 4 0 1 1 1 1 10 Intervention group 1 3 2 0
Surgically related Prostethic infection – revision surgery Wound infection – only AB Wound complication – not infection Fall and peri-prosthetic fracture Fall Dislocation Total surgically related Medically related DVT/PE DVT suspected, not found Cardiac complication Death (unknown reason) Pneumonia	6 6 2 2 3 3 2 4 23 Total study cohort 3 7 3 1 1 1	3 2 2 2 2 1 3 13 Control group 2 4 1 1 1	3 4 0 1 1 1 10 Intervention group 1 3 2 0 0
Surgically related Prostethic infection – revision surgery Wound infection – only AB Wound complication – not infection Fall and peri-prosthetic fracture Fall Dislocation Total surgically related Medically related DVT/PE DVT suspected, not found Cardiac complication Death (unknown reason) Pneumonia Stroke	6 6 2 2 3 3 2 2 4 4 23 23 Total study cohort 3 7 3 1 1 1 1 1	3 2 2 2 2 1 3 13 Control group 2 4 1 1 1 1	3 4 0 1 1 1 10 Intervention group 1 3 2 0 0 0
Surgically related Prostethic infection – revision surgery Wound infection – only AB Wound complication – not infection Fall and peri-prosthetic fracture Fall Dislocation Total surgically related Medically related DVT/PE DVT suspected, not found Cardiac complication Death (unknown reason) Pneumonia Stroke Abdominal complication	6 6 2 2 3 3 2 2 4 4 2 3 3 5 7 3 3 1 1 1 1 2 2	3 2 2 2 1 3 13 3 13 Control group 2 4 1 1 1 1 1 0	3 4 0 1 1 1 10 Intervention group 1 3 2 0 0 0 2

Legend: table A appendix:

TOTAL

Causes for LOS>4 days or re-admissions during the first 30-days postoperatively after THA and TKA in 1359 patients with or without assessment of motor function (control vs intervention groups, respectively) before PACU discharge TKA: total knee arthroplasty, THA: total hip arthroplasty, DVT: deep venous thrombosis, LE: pulmonary embolism LOS: length of stay, POCD: postoperative cognitive dysfunction, AB: antibiotics

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