

1 **Appendix C:**

Small Scale Testing Follow-up Testing & Implementation Hardwiring Change

PDSA CYCLE	#1 Pilot Cases and Outpatient Pathway Development 09/2020 – 12/2020	#2 Pathway Implementation 01/2021 – 2/2021	#3 Revisiting Failed Discharges 03/2021 – 4/2021	#4 Further Optimization & Hardwiring Outpatient Pathway 05/2021 – 6/2021
Plan	<ul style="list-style-type: none"> Process mapping of inpatient pathway Pilot outpatient cases 	<ul style="list-style-type: none"> Formal launch of outpatient pathway 01/2021 2 to 6 cases scheduled per week 	<ul style="list-style-type: none"> Continue implementation of hybrid pathway 	<ul style="list-style-type: none"> Ramp up of outpatient arthroplasty Add preemptive opioid analgesia prior to spinal wearing off in PACU
Do	<ul style="list-style-type: none"> 12 pilot cases attempted, 11 discharged home from PACU 	<ul style="list-style-type: none"> 35 cases attempted (28 successful) Coincided with 2nd COVID-19 wave 	<ul style="list-style-type: none"> 9 cases attempted (6 successful) Suspension of all elective surgeries 04/2021 due to 3rd COVID-19 wave 	<ul style="list-style-type: none"> 22 cases attempted (21 successful)
Study	<ul style="list-style-type: none"> Ambiguity re who is a suitable outpatient candidate Need to streamline PACU PT consults Patient anxiety 	<ul style="list-style-type: none"> Significant impact on inpatient resource savings due to new pathway Pain still a barrier to discharge for some patients 	<ul style="list-style-type: none"> Limited feedback due to drop in case output 	<ul style="list-style-type: none"> Significant improvement in analgesia 56% of knee arthroplasty did not require opioids during first 72 hours
Act	<ul style="list-style-type: none"> Develop standardized patient selection criteria Develop patient education materials Evening shift PT 	<ul style="list-style-type: none"> Add outpatient continuous nerve block infusion for knee arthroplasty 	<ul style="list-style-type: none"> Prepare for surgical ramp up once elective surgeries resume 	<ul style="list-style-type: none"> Continue reviewing failed discharges Formalize outpatient pathway as an important tool to address ongoing inpatient resource constraints

PACU:post-anesthesia care unit, PT: physiotherapy

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