

APPENDIX 1

Patient demographics, LOS, and comorbidities

Table 1 Patient demographics, length of stay, comorbidity indices and theatre parameters for 2018

	PHASE 0	PHASE 1	PHASE 2	PHASE 3	TOTAL
	(N = 709)	(N = 571)	(N = 1363)	(N = 486)	(N = 3129)
Age at Injury					
Mean (SD)	61.23 (22.40)	56.40 (24.04)	57.52 (24.36)	59.06 (23.79)	58.39 (23.83)
Median (Q1, Q3)	64.0 (46.0, 79.0)	59.0 (36.0, 77.0)	60.0 (37.0, 79.0)	62.0 (42.0, 81.0)	61.0 (40.0, 79.0)
Length of Spell (Days)					
Mean (SD)	8.39 (10.31)	6.84 (8.57)	6.76 (10.19)	7.02 (9.45)	7.18 (9.84)
Median (Q1, Q3)	6.0 (1.0, 12.0)	4.0 (1.0, 10.0)	3.0 (1.0, 10.0)	3.0 (1.0, 10.0)	4.0 (1.0, 10.0)
Charlson Comorbidity Index					
Mean (SD)	0.72 (1.31)	0.65 (1.24)	0.68 (1.26)	0.60 (1.21)	0.67 (1.26)
Median (Q1, Q3)	0.0 (0.0, 1.0)	0.0 (0.0, 1.0)	0.0 (0.0, 1.0)	0.0 (0.0, 1.0)	0.0 (0.0, 1.0)
Elixhauser Comorbidity index					
Mean (SD)	1.19 (1.39)	1.09 (1.36)	1.14 (1.38)	1.06 (1.31)	1.13 (1.37)
Median (Q1, Q3)	1.0 (0.0, 2.0)	1.0 (0.0, 2.0)	1.0 (0.0, 2.0)	1.0 (0.0, 2.0)	1.0 (0.0, 2.0)
Hours to Surgery					
Mean (SD)	29.24 (50.75)	31.46 (48.29)	34.72 (91.27)	26.22 (52.95)	31.54 (71.10)
Median (Q1, Q3)	15.4 (4.4, 30.9)	16.9 (5.3, 31.2)	15.4 (4.3, 32.0)	12.4 (4.4, 23.8)	15.4 (4.5, 30.5)
Time in Theatre					

Mean (SD)	98.59 (58.34)	92.86 (48.23)	94.33 (46.30)	95.49 (48.66)	95.23 (50.04)
Median (Q1, Q3)	93.0 (67.0, 116.0)	87.0 (60.0, 118.0)	89.0 (61.0, 118.0)	88.0 (67.0, 115.0)	90.0 (63.0, 117.0)
Time in Theatre/Recovery					
Mean (SD)	61.23 (22.40)	56.40 (24.04)	57.52 (24.36)	59.06 (23.79)	58.39 (23.83)
Median (Q1, Q3)	64.0 (46.0, 79.0)	59.0 (36.0, 77.0)	60.0 (37.0, 79.0)	62.0 (42.0, 81.0)	61.0 (40.0, 79.0)
Sex					
Female	383 (54.0%)	296 (51.8%)	726 (53.3%)	249 (51.2%)	1654 (52.9%)
Male	326 (46.0%)	275 (48.2%)	637 (46.7%)	237 (48.8%)	1475 (47.1%)

Table 2 Patient demographics, length of stay, comorbidity indices and theatre parameters for 2019

	PHASE 0	PHASE 1	PHASE 2	PHASE 3	TOTAL
	(N = 664)	(N = 563)	(N = 1315)	(N = 471)	(N = 3013)
Age at Injury					
Mean (SD)	58.89 (24.03)	60.66 (23.17)	58.66 (23.95)	61.11 (22.98)	59.47 (23.68)
Median (Q1, Q3)	62.0 (39.0, 79.5)	62.0 (43.0, 81.0)	62.0 (39.0, 79.0)	62.0 (43.0, 82.0)	62.0 (40.0, 80.0)
Length of Spell (Days)					
Mean (SD)	7.30 (8.05)	7.50 (9.90)	6.67 (8.60)	8.01 (10.88)	7.18 (9.14)
Median (Q1, Q3)	5.0 (1.0, 11.0)	4.0 (1.0, 11.0)	4.0 (1.0, 10.0)	6.0 (1.0, 11.0)	5.0 (1.0, 10.0)
Charlson Comorbidity Index					

Mean (SD)	0.71 (1.28)	0.84 (1.49)	0.78 (1.35)	0.77 (1.30)	0.77 (1.35)
Median (Q1, Q3)	0.0 (0.0, 1.0)	0.0 (0.0, 1.0)	0.0 (0.0, 1.0)	0.0 (0.0, 1.0)	0.0 (0.0, 1.0)
Elixhauser Comorbidity index					
Mean (SD)	1.20 (1.38)	1.36 (1.55)	1.39 (1.53)	1.34 (1.42)	1.33 (1.49)
Median (Q1, Q3)	1.0 (0.0, 2.0)	1.0 (0.0, 2.0)	1.0 (0.0, 2.0)	1.0 (0.0, 2.0)	1.0 (0.0, 2.0)
Hours to Surgery					
Mean (SD)	32.02 (57.64)	32.13 (51.56)	29.17 (47.03)	31.96 (56.83)	30.79 (51.99)
Median (Q1, Q3)	14.9 (5.0, 29.9)	15.4 (4.8, 33.5)	15.6 (5.0, 31.9)	17.7 (5.5, 35.1)	15.6 (5.0, 33.0)
Time in Theatre					
Mean (SD)	101.03 (49.49)	96.30 (67.04)	94.85 (57.61)	95.95 (47.63)	96.64 (56.36)
Median (Q1, Q3)	92.5 (70.0, 122.0)	89.5 (62.0, 114.0)	88.0 (61.0, 116.0)	88.0 (61.0, 121.0)	90.0 (63.0, 118.0)
Time in Theatre/Recovery					
Mean (SD)	213.08 (110.23)	208.29 (115.17)	214.99 (141.51)	228.39 (146.20)	215.56 (131.70)
Median (Q1, Q3)	194.0 (150.0, 247.0)	186.0 (145.0, 247.0)	190.0 (145.0, 252.0)	201.0 (153.0, 267.0)	193.0 (148.0, 253.0)
Sex					
Female	332 (50.0%)	291 (51.7%)	675 (51.3%)	239 (50.7%)	1537 (51.0%)
Male	332 (50.0%)	272 (48.3%)	640 (48.7%)	232 (49.3%)	1476 (49.0%)

Table 3 Patient demographics, length of stay, comorbidity indices and theatre parameters for 2020

	PHASE 0	PHASE 1	PHASE 2	PHASE 3	TOTAL
	(N = 664)	(N = 563)	(N = 1315)	(N = 471)	(N = 3013)
Age at Injury					
Mean (SD)	59.46 (23.95)	62.16 (23.61)	57.70 (24.07)	60.97 (23.47)	59.33 (23.93)
Median (Q1, Q3)	62.0 (41.5, 80.0)	65.0 (47.0, 83.0)	61.0 (38.0, 78.0)	65.0 (41.0, 81.0)	63.0 (40.0, 80.0)
Length of Spell (Days)					
Mean (SD)	7.05 (7.87)	5.69 (5.90)	5.71 (7.54)	7.53 (8.86)	6.30 (7.64)
Median (Q1, Q3)	5.0 (1.0, 10.0)	5.0 (1.0, 9.0)	3.0 (1.0, 9.0)	5.0 (1.0, 12.0)	4.0 (1.0, 10.0)
Charlson Comorbidity Index					
Mean (SD)	0.77 (1.23)	0.90 (1.45)	0.68 (1.19)	0.68 (1.25)	0.73 (1.26)
Median (Q1, Q3)	0.0 (0.0, 1.0)	0.0 (0.0, 1.0)	0.0 (0.0, 1.0)	0.0 (0.0, 1.0)	0.0 (0.0, 1.0)
Elixhauser Comorbidity index					
Mean (SD)	1.27 (1.46)	1.55 (1.63)	1.21 (1.37)	1.19 (1.39)	1.28 (1.44)
Median (Q1, Q3)	1.0 (0.0, 2.0)	1.0 (0.0, 2.0)	1.0 (0.0, 2.0)	1.0 (0.0, 2.0)	1.0 (0.0, 2.0)
Hours to Surgery					
Mean (SD)	30.71 (49.37)	30.84 (34.56)	24.50 (37.98)	24.59 (37.14)	26.97 (40.41)
Median (Q1, Q3)	17.1 (5.9, 32.6)	18.5 (5.0, 43.6)	13.4 (4.9, 24.1)	14.2 (4.8, 27.1)	14.7 (5.1, 31.2)
Time in Theatre					
Mean (SD)	95.62 (50.10)	144.25 (64.24)	127.98 (54.37)	123.20 (54.48)	122.11 (57.35)
Median (Q1, Q3)	88.0 (63.0, 118.0)	130.5 (102.5, 172.5)	122.5 (92.0, 154.0)	116.5 (88.0, 149.0)	115.0 (84.0, 151.0)

Time in Theatre/Recovery					
Mean (SD)	215.97 (124.31)	175.22 (117.92)	195.23 (106.09)	203.28 (132.37)	199.65 (117.42)
Median (Q1, Q3)	194.0 (150.0, 255.0)	153.0 (118.0, 202.0)	179.0 (139.0, 230.5)	181.5 (145.0, 234.0)	180.0 (139.0, 234.0)
Sex					
Female	347 (54.2%)	237 (55.8%)	649 (53.6%)	234 (56.7%)	1467 (54.6%)
Male	293 (45.8%)	188 (44.2%)	561 (46.4%)	179 (43.3%)	1221 (45.4%)

APPENDIX 2

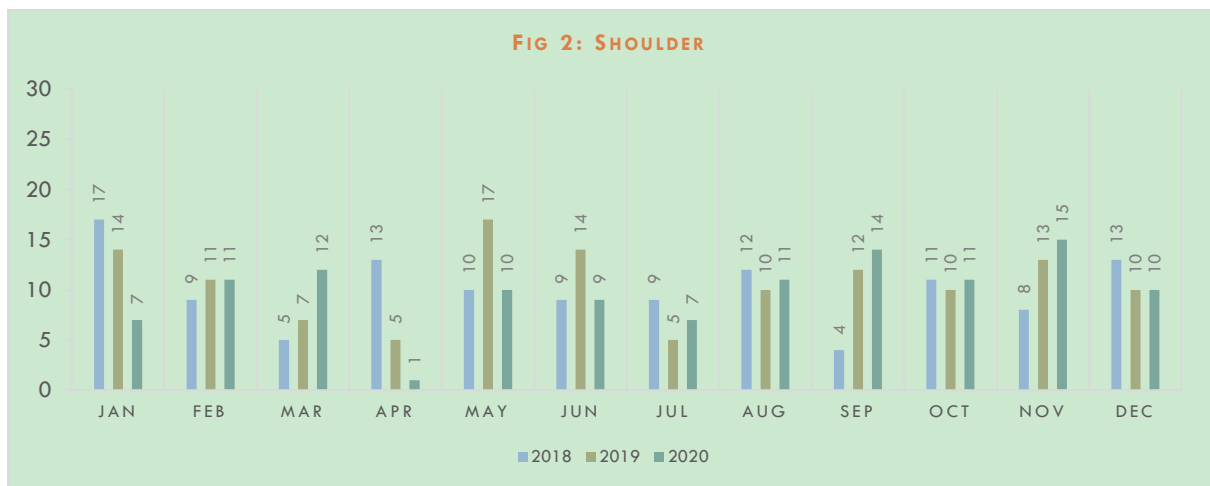
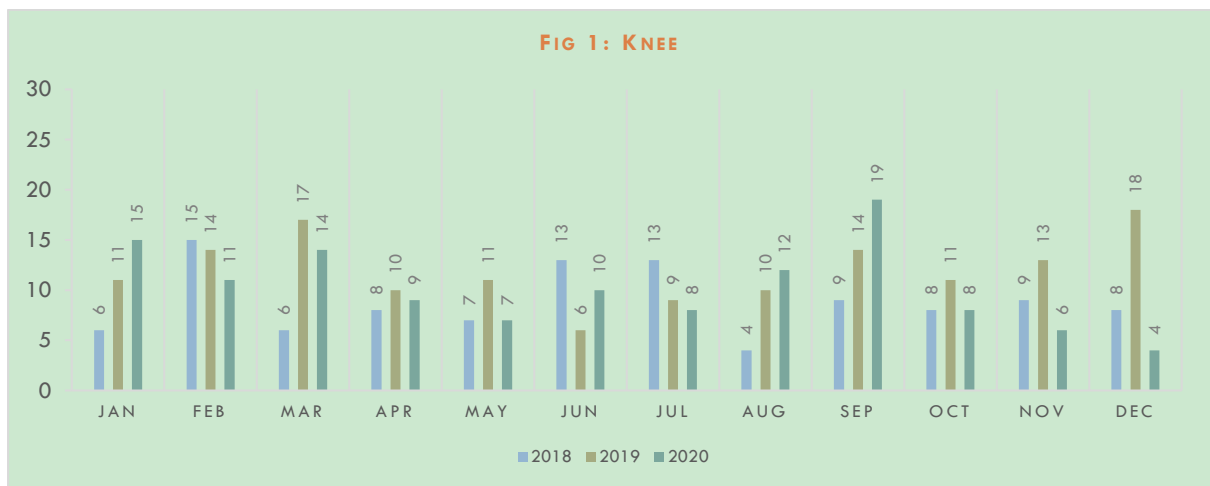


FIG 3: ELBOW

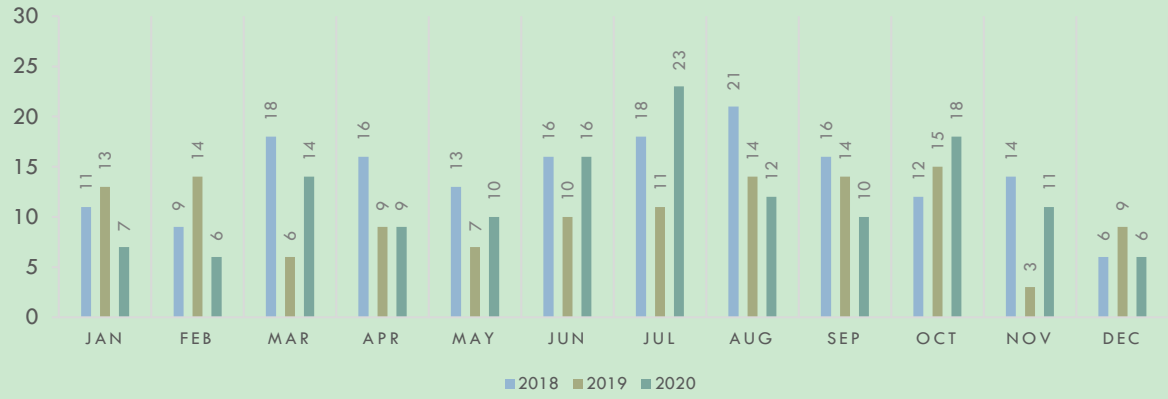


FIG 4: COMPLEX MULTI-SITE

