Table 2. Prevalent number of baseline* inpatients and inpatients with COVID-19 in non-ICU and

ICU beds in two acute care hospitals in the GTA, 90 days after outbreak started.

1CU beds in two acute care nospitals					a 152 aar	tuoina 1
	Among selected scenarios**			Across 153 constrained epidemics***		
	Fast/Large	Default	Slow/Small	Median	Lower	Upper
					Quartile	Quartile
SMH non-ICU inpatient beds (capacity=476; non-COVID-19 patients=457*)						
Daily prevalent number of non-ICU	1757	285	7	73	12	402
COVID-19 related inpatients						
Extra absolute number of non-ICU	1738	266	0	54	0	383
beds needed						
% of non-COVID-19 related non-	NA	58	0	12	0	84
ICU inpatients to be reduced						
SMH ICU inpatient beds (capacity=71; non-COVID-19 patients=56*)						
Daily prevalent number of ICU	911	101	9	42	7	263
COVID-19 related inpatients						
Extra absolute number of ICU beds	896	86	0	27	0	248
needed						
% of non-COVID-19 related ICU	NA	NA	0	48	0	NA
inpatients to be reduced		1,11		1.0		1111
SJH non-ICU inpatient beds (capacity=439; non-COVID-19 patients=390*)						
Daily prevalent number of non-ICU	1537	250	6	64	10	352
COVID-19 related inpatients	1337	230			10	332
Extra absolute number of non-ICU	1488	201	0	15	0	303
beds needed	1400	201	O .	13	0	303
% of non-COVID-19 related non-	NA	52	0	4	0	78
ICU inpatients to be reduced	IVA	32	O	4	0	70
SJH ICU inpatient beds (capacity=3	2. non COV	ID 10 not	ionts_1 2 *)			
				11		70
Daily prevalent number of ICU	241	27	2	11	2	70
COVID-19 related inpatients	227	10		0	0	
Extra absolute number of ICU beds	227	13	0	0	0	56
needed						
% of non-COVID-19 related ICU	NA	72	0	0	0	NA
inpatients to be reduced	10					

^{*}The baseline number of non-COVID-19 patients was estimated based on the median daily number of inpatients on May 30th between 2014-2019 in each hospital.

Abbreviations: ICU: intensive care unit; NA: not applicable when number of COVID-19 related patients exceeded the hospital capacity; SJH: St Joseph Hospital; SMH: St Michael's Hospital.

^{**}The fast/large epidemic and slow/small epidemic were selected as the upper and lower quartiles of peak incidence, respectively, within the first 300 days. The default scenario used the default parameter set as shown in Table 1.

^{***}Among 200 simulated epidemics, 153 met the constraints using the observed data for Lombardy, Italy and Hong Kong, China (corresponding data points at day 30 since outbreak started were used as upper and lower bounds, respectively to constrain the epidemics).