

**Supplementary Table 6: IRR of top cancers in Alberta (all stages combined) during state of emergency, compared to the incidence rate before COVID, and the post-SOE monthly recovery rate under the alternative model with 2-month SOE and 7-month post-SOE recovery**

IRR	Bladder	Breast	Colorectal	Kidney	NHL
SOE	0.88 (0.73, 1.06)	0.63 (0.56, 0.72)*	0.61 (0.52, 0.70)*	0.92 (0.71, 1.19)	1.00 (0.82, 1.21)
PostSOE	1.00 (0.97, 1.04)	1.09 (1.06, 1.12)*	1.08 (1.05, 1.11)*	1.00 (0.94, 1.05)	0.97 (0.93, 1.00)
	Lung	Melanoma	Prostate	Uterus	Cervix
SOE	0.93 (0.82, 1.05)	0.53 (0.43, 0.65)*	0.60 (0.53, 0.69)*	0.85 (0.68, 1.06)	1.16 (0.73, 1.83)
PostSOE	1.02 (0.99, 1.04)	1.09 (1.05, 1.14)*	1.08 (1.05, 1.11)*	1.04 (0.99, 1.08)	0.97 (0.89, 1.06)

SOE: estimated as the exponent of  $\beta_3$ ; PostSOE: estimated as the exponent of  $\beta_4$ .

**Table 67: Missed cancer diagnoses during March 2020 to December 2020, modeled as the difference between the counterfactual cancer diagnoses had COVID not occurred and the modeled diagnoses under the alternative model with 2-month SOE and 7-month post-SOE recovery**

Cancer	Modeled	Counterfactual	Difference
Bladder	630 (585, 673)	712 (632, 800)	82 (-14, 187)
Breast	1962 (1883, 2040)	2312 (2165, 2461)	350 (172, 531)*
Cervix	122 (103, 141)	116 (85, 155)	-6 (-45, 40)
Colorectal	1415 (1343, 1485)	1811 (1681, 1948)	397 (240, 570)*
Kidney	416 (381, 451)	458 (396, 527)	42 (-32, 122)
Lung	1637 (1568, 1708)	1674 (1556, 1803)	37 (-110, 194)
Melanoma	577 (537, 619)	800 (715, 898)	223 (122, 336)*
NHL	619 (577, 663)	695 (615, 789)	76 (-20, 185)
Prostate	1794 (1720, 1867)	2275 (2135, 2431)	481 (313, 667)*
Uterus	520 (481, 557)	542 (473, 619)	22 (-63, 114)