Supplementary Material 1. COVID-19 confirmed cases and cancer screening rates for stomach, colorectal, breast, and cervical cancers in 2019 and 2020, by region

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| Province | Total COVID-19 confirmed cases1 | Stomach cancer screening (Endoscopy or UGIs) | Colorectal cancer screening (FOBT) | Breast cancer screening (Mammography) | Cervical cancer screening (Cytology) |
| Year % (95%CI) | *p*-value | Year% (95%CI) | *p*-value | Year% (95%CI) | *p*-value | Year% (95%CI) | *p*-value |
| 2019 | 2020 |  | 2019 | 2020 |  | 2019 | 2020 |  | 2019 | 2020 |  |
| Seoul2 | 1,280 | 37.7(34.0,41.5) | 21.3(18.1,24.4) | <0.01 | 21.2(17.4,25.0) | 10.0(7.2,12.8) | <0.01 | 31.8(26.8,36.7) | 16.3(12.3,20.2) | <0.01 | 26.1(22.4,29.7) | 15.9(12.9,19.0) | <0.01 |
| Busan2 | 132 | 23.7(18.4,29.0) | 20.8(15.7,25.9) | 0.44 | 6.1(2.6,9.6) | 11.0(6.4,15.6) | 0.10 | 16.4(9.9,22.9) | 19.2(12.4,26.1) | 0.55 | 16.4(11.1,21.7) | 14.2(9.2,19.2) | 0.55 |
| Daegu2 | 6,881 | 33.5(26.5,40.6) | 33.6(27.8,39.3) | 0.99 | 26.1(19.7,32.5) | 25.8(17.9,33.7) | 0.96 | 31.1(21.4,40.8) | 36.2(28.1,44.3) | 0.43 | 23.7(17.6,29.8) | 16.5(10.2,22.9) | 0.12 |
| Incheon1 | 305 | 29.3(22.9,35.7) | 26.4(20.2,32.5) | 0.51 | 29.3(21.5,37.1) | 15.3(9.2,21.4) | 0.01 | 21.0(12.9,29.1) | 21.8(13.6,29.9) | 0.89 | 21.0(14.6,27.4) | 23.6(16.9,30.3) | 0.59 |
| Gwangju1 | 180 | 43.6(33.5,53.8) | 18.9(11.0,26.9) | <0.01 | 25.8(14.7,36.9) | 9.5(2.1,16.9) | 0.02 | 28.6(15.6,41.5) | 22.4(10.5,34.4) | 0.49 | 24.7(14.9,34.4) | 17.1(8.5,25.7) | 0.25 |
| Daejeon2 | 147 | 43.3(33.3,53.3) | 31.6(22.3,40.9) | 0.09 | 21.5(11.4,31.7) | 16.7(7.5,25.8) | 0.48 | 36.7(22.9,50.5) | 28.0(15.3,40.7) | 0.35 | 28.2(18.1,38.3) | 19.2(10.4,28.1) | 0.19 |
| Ulsan2 | 34 | 7.7(1.7,13.7) | 8.9(2.5,15.2) | 0.79 | 13.5(4.0,22.9) | 9.3(1.4,17.2) | 0.49 | 10.3(0.5,20.1) | 5.1(0.0,12.3) | 0.4 | 3.4(0.0,8.1) | 15.3(5.9,24.6) | 0.03 |
| Gyeonggi3 | 1,149 | 35.5(32.3,38.7) | 32.3(29.2,35.4) | 0.16 | 19.8(16.5,23.0) | 19.8(16.5,23.0) | 0.99 | 23.3(19.3,27.3) | 31.7(27.3,36.0) | 0.01 | 24.1(20.9,27.3) | 25.6(22.4,28.9) | 0.52 |
| Gangwon3 | 53 | 25.7(17.5,33.8) | 22.1(14.4,29.9) | 0.53 | 9.8(3.2,16.3) | 14.3(6.7,21.9) | 0.37 | 14.0(4.8,23.2) | 15.8(6.1,25.4) | 0.79 | 21.3(12.2,30.3) | 12.5(5.2,19.8) | 0.14 |
| Chungbuk3 | 62 | 40.2(31.0,49.3) | 24.5(16.4,32.7) | 0.01 | 15.2(7.2,23.2) | 19.0(10.2,27.8) | 0.53 | 28.6(16.5,40.6) | 14.5(5.0,24.1) | 0.07 | 31.3(21.2,41.4) | 11.1(4.2,18.0) | <0.01 |
| Chungnam3 | 159 | 25.5(18.7,32.2) | 26.9(19.6,34.2) | 0.78 | 6.4(1.8,11.0) | 9.8(4.0,15.6) | 0.36 | 20.0(11.1,28.9) | 12.7(4.8,20.5) | 0.11 | 13.9(7.7,20.1) | 17.1(9.9,24.4) | 0.17 |
| Jeonbuk3 | 182 | 26.9(19.2,34.6) | 49.6(40.9,58.3) | <0.01 | 10.8(4.4,17.1) | 14.9(7.6,22.2) | 0.40 | 22.7(12.4,33.0) | 36.9(25.0,48.9) | 0.08 | 23.2(14.6,31.7) | 30.4(20.9,40.0) | 0.26 |
| Jeonnam3 | 17 | 27.0(19.5,34.5) | 29.9(22.0,37.7) | 0.06 | 24.5(16.1,32.9) | 20.0(12.1,27.9) | 0.44 | 23.5(13.3,33.8) | 24.2(13.7,34.8) | 0.92 | 16.0(8.5,23.4) | 21.7(13.2,30.3) | 0.31 |
| Gyeongbuk3 | 1,372 | 40.0(33.1,46.9) | 27.8(21.5,34.2) | 0.01 | 28.0(20.6,35.4) | 9.0(4.3,13.7) | <0.01 | 38.8(29.0,48.5) | 24.7(16.1,33.4) | 0.04 | 28.5(20.8,36.1) | 20.1(13.3,27.0) | 0.11 |
| Gyeongnam3 | 111 | 25.1(19.5,30.7) | 23.3(17.9,28.7) | 0.65 | 18.4(12.4,24.4) | 16.3(10.6,21.9) | 0.61 | 33.6(25.0,42.2) | 17.8(10.8,24.8) | 0.01 | 20.2(14.2,26.3) | 21.2(15.0,27.4) | 0.83 |
| Jeju3 | 11 | 34.8(20.7,48.9) | 54.3(39.6,69.1) | 0.06 | 25.8(9.8,41.8) | 16.1(2.7,29.6) | 0.35 | 36.4(15.2,57.5) | 40.9(19.3,62.5) | 0.76 | 14.7(2.4,27.0) | 45.5(27.9,63.0) | 0.010 |

1 From January 3rd ~ August 5th, 2020; 2Metropolitan provinces; 3Provinces that include both urban and rural areas

95%CI: 95% Confidence Interval; *\* p < 0.05, \*\* p < 0.01, \*\*\* p < 0.001*