**Supplementary Files**

**Table 1. Colorectal cancer incidence rate per 100,000 individuals by age group in Atlantic, Central, the Prairies, and Western Canada from 1992 to 2016 (N=349,505)**

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Age group** | **Geography** | **N** | **1992-1996Rate per 100,000(95% CI)** | **N** | **1997-2001Rate per 100,000(95% CI)** | **N** | **2002-2006Rate per 100,000(95% CI)** | **N** | **2007-2011Rate per 100,000(95% CI)** | **N** | **2012-2016Rate per 100,000(95% CI)** |
| 20-39(N=5,505) | All | 895 | 2.53 (2.36 - 2.69) | 960 | 2.76 (2.58 - 2.93) | 1000 | 2.91 (2.73 - 3.09) | 1190 | 3.38 (3.19 - 3.57) | 1460 | 3.94 (3.73 - 4.14) |
| Atlantic | 95 | 2.47 (2 - 3.02) | 120 | 3.46 (2.84 - 4.08) | 95 | 3.04 (2.46 - 3.72) | 120 | 4.09 (3.35 - 4.82) | 115 | 4.05 (3.31 - 4.79) |
| Central | 465 | 2.61 (2.38 - 2.85) | 490 | 2.79 (2.54 - 3.04) | 525 | 2.98 (2.72 - 3.23) | 640 | 3.63 (3.35 - 3.91) | 725 | 3.97 (3.68 - 4.25) |
| Prairies | 185 | 2.35 (2.01 - 2.69) | 200 | 2.59 (2.23 - 2.95) | 225 | 2.88 (2.5 - 3.25) | 270 | 3.12 (2.75 - 3.49) | 370 | 3.85 (3.46 - 4.24) |
| West | 150 | 2.53 (2.12 - 2.93) | 150 | 2.49 (2.09 - 2.89) | 155 | 2.69 (2.27 - 3.12) | 160 | 2.68 (2.27 - 3.1) | 250 | 3.93 (3.44 - 4.42) |
| 40-44(N=6,470) | All | 1040 | 12.5 (11.74 - 13.26) | 1200 | 12.57 (11.86 - 13.28) | 1295 | 12.5 (11.82 - 13.18) | 1385 | 14.47 (13.71 - 15.23) | 1550 | 16.89 (16.05 - 17.73) |
| Atlantic | 140 | 15.17 (12.66 - 17.68) | 140 | 14.32 (11.95 - 16.69) | 165 | 16.73 (14.18 - 19.28) | 145 | 16.69 (13.97 - 19.41) | 125 | 15.8 (13.03 - 18.57) |
| Central | 530 | 12.89 (11.79 - 13.99) | 630 | 13.3 (12.26 - 14.34) | 660 | 12.3 (11.36 - 13.24) | 750 | 15.06 (13.98 - 16.14) | 830 | 17.91 (16.69 - 19.13) |
| Prairies | 195 | 10.79 (9.27 - 12.3) | 250 | 11.72 (10.26 - 13.17) | 265 | 11.77 (10.35 - 13.19) | 280 | 13.41 (11.84 - 14.98) | 345 | 16.01 (14.32 - 17.7) |
| West | 175 | 11.85 (10.09 - 13.6) | 180 | 10.59 (9.04 - 12.13) | 205 | 11.66 (10.07 - 13.26) | 210 | 12.84 (11.1 - 14.57) | 250 | 15.68 (13.73 - 17.62) |
| 45-49(N=12,145) | All | 1920 | 26.53 (25.34 - 27.71) | 2200 | 26.13 (25.04 - 27.22) | 2505 | 25.93 (24.91 - 26.94) | 2765 | 26.38 (25.4 - 27.36) | 2755 | 28.3 (27.24 - 29.36) |
| Atlantic | 270 | 33.1 (29.15 - 37.05) | 285 | 31.48 (27.82 - 35.13) | 295 | 30.69 (27.19 - 34.19) | 320 | 32.84 (29.24 - 36.44) | 280 | 31.99 (28.24 - 35.73) |
| Central | 980 | 26.87 (25.19 - 28.56) | 1130 | 27.13 (25.55 - 28.72) | 1235 | 25.49 (24.07 - 26.91) | 1435 | 26.59 (25.22 - 27.97) | 1420 | 28.38 (26.91 - 29.86) |
| Prairies | 370 | 24.83 (22.3 - 27.36) | 445 | 24.65 (22.36 - 26.94) | 570 | 26.45 (24.28 - 28.62) | 585 | 25.19 (23.15 - 27.23) | 610 | 28.4 (26.15 - 30.66) |
| West | 300 | 23.34 (20.7 - 25.98) | 340 | 22.01 (19.67 - 24.35) | 405 | 23.83 (21.51 - 26.15) | 425 | 23.76 (21.51 - 26.02) | 445 | 26.04 (23.62 - 28.46) |
| 50-54(N=21,220) | All | 2770 | 50.04 (48.18 - 51.9) | 3610 | 49.93 (48.31 - 51.56) | 4315 | 51.18 (49.66 - 52.71) | 5015 | 51.59 (50.17 - 53.02) | 5510 | 52.36 (50.97 - 53.74) |
| Atlantic | 395 | 64.33 (57.99 - 70.68) | 485 | 60.39 (55.01 - 65.76) | 560 | 62.77 (57.57 - 67.97) | 555 | 58.16 (53.32 - 63) | 570 | 57.99 (53.23 - 62.75) |
| Central | 1410 | 50.05 (47.44 - 52.66) | 1855 | 51.08 (48.75 - 53.4) | 2145 | 51.18 (49.02 - 53.35) | 2585 | 53.14 (51.09 - 55.19) | 2745 | 51.15 (49.24 - 53.06) |
| Prairies | 530 | 46.8 (42.82 - 50.79) | 705 | 47.8 (44.27 - 51.33) | 900 | 49.75 (46.5 - 53) | 1130 | 51.66 (48.65 - 54.67) | 1265 | 54.35 (51.36 - 57.35) |
| West | 435 | 44.75 (40.54 - 48.95) | 565 | 42.81 (39.28 - 46.34) | 710 | 46.14 (42.75 - 49.54) | 745 | 43.46 (40.34 - 46.58) | 930 | 50.34 (47.1 - 53.58) |
| 55-59(N=30,150) | All | 4295 | 91.59 (88.85 - 94.33) | 4940 | 90.13 (87.62 - 92.65) | 6275 | 87.62 (85.45 - 89.79) | 7065 | 84.69 (82.71 - 86.66) | 7575 | 78.52 (76.75 - 80.29) |
| Atlantic | 530 | 104.34 (95.46 - 113.22) | 655 | 108.75 (100.42 - 117.08) | 865 | 109.15 (101.88 - 116.43) | 910 | 103.34 (96.62 - 110.05) | 905 | 94.51 (88.35 - 100.67) |
| Central | 2265 | 94 (90.13 - 97.87) | 2530 | 91.09 (87.54 - 94.64) | 3160 | 87.81 (84.75 - 90.87) | 3435 | 82.85 (80.08 - 85.62) | 3510 | 73.22 (70.8 - 75.65) |
| Prairies | 845 | 87.79 (81.87 - 93.71) | 970 | 87.58 (82.07 - 93.09) | 1235 | 84.87 (80.14 - 89.61) | 1605 | 89.73 (85.34 - 94.12) | 1815 | 84.63 (80.73 - 88.52) |
| West | 655 | 80.92 (74.73 - 87.12) | 785 | 79.02 (73.49 - 84.54) | 1015 | 77.16 (72.42 - 81.91) | 1115 | 73.03 (68.74 - 77.31) | 1345 | 76.81 (72.7 - 80.91) |
| 60-64(N=39,295) | All | 6275 | 141.09 (137.6 - 144.58) | 6535 | 142.28 (138.83 - 145.73) | 7435 | 137.77 (134.64 - 140.9) | 9270 | 131.72 (129.03 - 134.4) | 9780 | 119.28 (116.92 - 121.65) |
| Atlantic | 750 | 159.83 (148.4 - 171.27) | 795 | 161.47 (150.24 - 172.69) | 1065 | 179.63 (168.84 - 190.42) | 1240 | 159.09 (150.23 - 167.94) | 1315 | 150.35 (142.23 - 158.48) |
| Central | 3410 | 148.55 (143.56 - 153.53) | 3420 | 145.34 (140.47 - 150.21) | 3700 | 135.4 (131.04 - 139.76) | 4545 | 128.46 (124.72 - 132.19) | 4375 | 107.88 (104.68 - 111.07) |
| Prairies | 1155 | 126.55 (119.26 - 133.85) | 1300 | 140.25 (132.62 - 147.87) | 1495 | 138.8 (131.76 - 145.84) | 1930 | 136.79 (130.69 - 142.89) | 2215 | 128.56 (123.21 - 133.92) |
| West | 960 | 124.67 (116.79 - 132.56) | 1020 | 124.29 (116.66 - 131.91) | 1175 | 118.19 (111.43 - 124.95) | 1555 | 118.75 (112.85 - 124.65) | 1875 | 121.29 (115.8 - 126.78) |
| 65-69(N=48,005) | All | 8430 | 205.23 (200.85 - 209.61) | 8660 | 204.4 (200.09 - 208.7) | 9075 | 206.38 (202.13 - 210.62) | 10180 | 196.34 (192.52 - 200.15) | 11660 | 171.89 (168.77 - 175.01) |
| Atlantic | 1050 | 246.38 (231.48 - 261.28) | 1035 | 235.93 (221.56 - 250.3) | 1120 | 239.27 (225.26 - 253.28) | 1375 | 242.89 (230.05 - 255.73) | 1650 | 220.08 (209.46 - 230.7) |
| Central | 4395 | 206.63 (200.52 - 212.74) | 4515 | 207.05 (201.01 - 213.09) | 4655 | 206.85 (200.91 - 212.79) | 4960 | 188.49 (183.24 - 193.73) | 5300 | 155.3 (151.12 - 159.48) |
| Prairies | 1600 | 191.23 (181.86 - 200.6) | 1725 | 200.84 (191.37 - 210.32) | 1795 | 204.78 (195.31 - 214.26) | 2065 | 203.19 (194.43 - 211.95) | 2430 | 183.08 (175.8 - 190.36) |
| West | 1385 | 192.95 (182.78 - 203.11) | 1385 | 182.55 (172.93 - 192.16) | 1505 | 187.61 (178.13 - 197.09) | 1780 | 183.31 (174.79 - 191.82) | 2280 | 176.23 (168.99 - 183.46) |
| 70-74(N=53,155) | All | 9380 | 266.94 (261.54 - 272.34) | 10400 | 279.24 (273.87 - 284.6) | 10775 | 277.31 (272.07 - 282.54) | 11040 | 269.95 (264.92 - 274.99) | 11560 | 239.05 (234.69 - 243.41) |
| Atlantic | 1170 | 306.12 (288.58 - 323.66) | 1190 | 314.76 (296.88 - 332.64) | 1225 | 310.46 (293.07 - 327.84) | 1460 | 341.46 (323.95 - 358.98) | 1640 | 316.6 (301.28 - 331.92) |
| Central | 4805 | 270.63 (262.97 - 278.28) | 5445 | 283.36 (275.84 - 290.89) | 5595 | 279.96 (272.62 - 287.29) | 5505 | 261.67 (254.76 - 268.58) | 5395 | 218.55 (212.72 - 224.39) |
| Prairies | 1825 | 251.6 (240.06 - 263.15) | 2015 | 266.32 (254.69 - 277.94) | 2150 | 273.96 (262.38 - 285.54) | 2235 | 278.7 (267.15 - 290.26) | 2310 | 248.25 (238.13 - 258.38) |
| West | 1580 | 250.45 (238.1 - 262.8) | 1750 | 261.89 (249.62 - 274.16) | 1805 | 255.06 (243.29 - 266.82) | 1840 | 243.29 (232.18 - 254.41) | 2215 | 241.09 (231.05 - 251.13) |
| 75-79(N=51,790) | All | 8635 | 348.21 (340.86 - 355.55) | 10400 | 350.98 (344.24 - 357.73) | 10990 | 342.37 (335.96 - 348.77) | 11180 | 329.97 (323.86 - 336.09) | 10585 | 292.17 (286.6 - 297.73) |
| Atlantic | 1095 | 377.16 (354.82 - 399.5) | 1295 | 412.71 (390.23 - 435.19) | 1315 | 415.3 (392.85 - 437.74) | 1355 | 405.54 (383.94 - 427.13) | 1405 | 382.15 (362.17 - 402.13) |
| Central | 4215 | 353.47 (342.79 - 364.14) | 5155 | 346.24 (336.79 - 355.69) | 5475 | 330.86 (322.09 - 339.62) | 5595 | 319.46 (311.09 - 327.83) | 5035 | 267.84 (260.44 - 275.24) |
| Prairies | 1835 | 337.61 (322.17 - 353.06) | 2145 | 348.7 (333.95 - 363.46) | 2300 | 350.79 (336.45 - 365.13) | 2320 | 340.88 (327.01 - 354.75) | 2125 | 302.81 (289.94 - 315.69) |
| West | 1490 | 328.56 (311.87 - 345.24) | 1805 | 330.99 (315.72 - 346.26) | 1900 | 325.94 (311.28 - 340.6) | 1910 | 307.06 (293.29 - 320.83) | 2020 | 299.84 (286.77 - 312.92) |
| 80-84(N=42,830) | All | 6715 | 408.04 (398.28 - 417.8) | 7605 | 408.48 (399.3 - 417.66) | 8905 | 385.19 (377.19 - 393.19) | 9705 | 382.77 (375.16 - 390.39) | 9900 | 362.67 (355.53 - 369.82) |
| Atlantic | 865 | 450.31 (420.3 - 480.32) | 1015 | 478.09 (448.67 - 507.5) | 1095 | 463.42 (435.97 - 490.87) | 1155 | 478.18 (450.6 - 505.76) | 1120 | 432.47 (407.15 - 457.8) |
| Central | 3230 | 410.31 (396.16 - 424.46) | 3580 | 403.92 (390.69 - 417.15) | 4330 | 372.81 (361.71 - 383.92) | 4935 | 376.41 (365.91 - 386.91) | 4985 | 350.96 (341.22 - 360.71) |
| Prairies | 1430 | 388.61 (368.47 - 408.75) | 1580 | 381.41 (362.6 - 400.21) | 1880 | 388.28 (370.73 - 405.83) | 1935 | 372.69 (356.09 - 389.3) | 1970 | 361.82 (345.85 - 377.8) |
| West | 1190 | 398.82 (376.16 - 421.48) | 1430 | 409.84 (388.59 - 431.08) | 1600 | 372.17 (353.93 - 390.4) | 1680 | 362.35 (345.03 - 379.68) | 1825 | 360.72 (344.17 - 377.27) |
| 85-89(N=26,535) | All | 3640 | 439.87 (425.58 - 454.16) | 4555 | 449.08 (436.03 - 462.12) | 5190 | 432.25 (420.49 - 444.01) | 6550 | 427.45 (417.1 - 437.8) | 6600 | 382.54 (373.31 - 391.77) |
| Atlantic | 485 | 521.45 (475.04 - 567.86) | 575 | 499.7 (458.85 - 540.54) | 690 | 522.67 (483.67 - 561.67) | 750 | 494.4 (459.01 - 529.78) | 675 | 432.87 (400.22 - 465.53) |
| Central | 1730 | 433.65 (413.22 - 454.09) | 2090 | 438.03 (419.25 - 456.81) | 2425 | 426.2 (409.23 - 443.16) | 3270 | 423.54 (409.02 - 438.06) | 3335 | 371.23 (358.63 - 383.83) |
| Prairies | 815 | 425.24 (396.05 - 454.44) | 1035 | 444.79 (417.69 - 471.89) | 1180 | 434.53 (409.74 - 459.33) | 1335 | 416.46 (394.12 - 438.8) | 1320 | 375.5 (355.24 - 395.76) |
| West | 610 | 423.85 (390.21 - 457.48) | 855 | 451.41 (421.16 - 481.67) | 895 | 392.31 (366.61 - 418.01) | 1195 | 414.9 (391.38 - 438.43) | 1270 | 397.52 (375.66 - 419.38) |
| 90+(N=12,405) | All | 1710 | 412.89 (393.32 - 432.46) | 2050 | 425.15 (406.75 - 443.56) | 2300 | 377.51 (362.08 - 392.94) | 2985 | 389.36 (375.39 - 403.33) | 3360 | 330.88 (319.69 - 342.07) |
| Atlantic | 240 | 506.38 (442.32 - 570.45) | 220 | 407.22 (353.41 - 461.03) | 290 | 428.55 (379.23 - 477.87) | 335 | 408.99 (365.19 - 452.78) | 410 | 422.27 (381.39 - 463.14) |
| Central | 815 | 408.1 (380.08 - 436.12) | 985 | 431.55 (404.6 - 458.5) | 1005 | 354.63 (332.71 - 376.56) | 1370 | 379.55 (359.46 - 399.65) | 1585 | 311.73 (296.39 - 327.08) |
| Prairies | 365 | 372.51 (334.29 - 410.72) | 470 | 407.56 (370.71 - 444.41) | 550 | 383.42 (351.38 - 415.47) | 680 | 386.66 (357.6 - 415.72) | 650 | 302.4 (279.15 - 325.64) |
| West | 290 | 419.86 (371.54 - 468.19) | 375 | 443.31 (398.45 - 488.18) | 455 | 396.53 (360.1 - 432.97) | 600 | 405.62 (373.17 - 438.08) | 715 | 366.7 (339.82 - 393.58) |

Notes: Rate per 100,000. All numbers are rounded. All includes Atlantic, Central, Prairies, West, and Territories; Atlantic includes Nova Scotia, Prince Edward Island, New Brunswick, and Newfoundland and Labrador. Central includes Quebec and Ontario. Prairies includes Manitoba and Saskatchewan. West includes Alberta and British Columbia. Territories includes Yukon, Northwest Territories, and Nunavut. CI, confidence interval.

**Table 2. Colorectal cancer incidence rate per 100,000 individuals by age group in the Territories, Canada from 1992 to 2016 (N =1,040)**

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Age group** | **N** | **1992-1995Rate per 100,000(95% CI)** | **N** | **1996-1999Rate per 100,000(95% CI)** | **N** | **2000-2003Rate per 100,000(95% CI)** | **N** | **2004-2007Rate per 100,000(95% CI)** | **N** | **2008-2011Rate per 100,000(95% CI)** | **N** | **2012-2016Rate per 100,000(95% CI)** |
| 00-49 | 15 | 7.79 (4.36 -12.85) | 15 | 7.69 (4.3 -12.68) | 35 | 18.19 (12.67 -25.29) | 35 | 17.49 (12.18 -24.32) | 25 | 12.23 (7.91 -18.05) | 40 | 15.12 (10.8 -20.58) |
| 50-74 | 35 | 86.24 (60.07 -119.94) | 70 | 140.6 (109.61 -177.65) | 105 | 173.22 (140.09 -206.36) | 135 | 180.17 (149.78 -210.56) | 135 | 150.96 (125.5 -176.43) | 190 | 142.43 (122.18 -162.68) |
| 75+ | 15 | 378.31 (211.74 -623.97) | 35 | 732.98 (510.55 -1019.4) | 30 | 538.12 (363.07 -768.19) | 30 | 434.15 (292.92 -619.78) | 35 | 424.5 (295.68 -590.38) | 60 | 491.4 (374.99 -632.53) |

Notes: Rate per 100,000. All numbers are rounded. Territories includes Yukon, Northwest Territories, and Nunavut. CI, confidence interval.

**Table 3. Average percent change in colorectal cancer incidence by age group in Atlantic, Central, the Prairies, and Western Canada from 1992 to 2016**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Age group** | **Geography** | **Time Frame** | **APC (95%CI)** | **P value** |
| 20-39 | Atlantic | 1992-2016 | 2.3 (1.0 - 3.6) | 0.001 |
| Central | 1992-2016 | 2.1 (1.6 - 2.6) | < 0.001 |
| Prairies | 1992-2016 | 2.4 (1.7 - 3.1) | < 0.001 |
| West | 1992-2016 | 2.0 (0.8 - 3.2) | 0.002 |
| 40-44 | Atlantic | 1992-2016 | 0.5 (-0.6 - 1.6) | 0.386 |
| Central | 1992-2003 | -0.8 (-2.3 - 0.8) | 0.313 |
| Central | 2003-2016 | 3.5 (2.2 - 4.7) | < 0.001 |
| Prairies | 1992-2016 | 1.9 (1.1 - 2.8) | < 0.001 |
| West | 1992-1997 | -6.0 (-12.5 - 1.0) | 0.088 |
| West | 1997-2016 | 2.5 (1.6 - 3.5) | < 0.001 |
| 45-49 | Atlantic | 1992-2016 | -0.1 (-0.9 - 0.8) | 0.861 |
| Central | 1992-2016 | 0.2 (-0.3 - 0.6) | 0.446 |
| Prairies | 1992-2016 | 0.6 (-0.2 - 1.4) | 0.11 |
| West | 1992-2016 | 0.4 (-0.4 - 1.2) | 0.276 |
| 50-54 | Atlantic | 1992-2016 | -0.4 (-1.1 - 0.3) | 0.255 |
| Central | 1992-2016 | 0.2 (-0.1 - 0.5) | 0.23 |
| Prairies | 1992-2016 | 0.7 (0.4 - 1.1) | < 0.001 |
| West | 1992-1995 | -9.4 (-20.7 - 3.4) | 0.136 |
| West | 1995-2016 | 1.0 (0.3 - 1.7) | 0.006 |
| 55-59 | Atlantic | 1992-2016 | -0.5 (-1.1 - 0.0) | 0.066 |
| Central | 1992-2007 | -0.6 (-1.1 - 0.0) | 0.045 |
| Central | 2007-2016 | -2.5 (-3.6 - -1.3) | < 0.001 |
| Prairies | 1992-2016 | -0.1 (-0.4 - 0.2) | 0.358 |
| West | 1992-2016 | -0.3 (-0.8 - 0.2) | 0.179 |
| 60-64 | Atlantic | 1992-2003 | 1.3 (-0.2 - 2.7) | 0.079 |
| Atlantic | 2003-2016 | -1.5 (-2.6 - -0.4) | 0.01 |
| Central | 1992-2008 | -0.8 (-1.2 - -0.4) | 0.001 |
| Central | 2008-2016 | -3.4 (-4.5 - -2.2) | < 0.001 |
| Prairies | 1992-2001 | 1.9 (0.5 - 3.3) | 0.012 |
| Prairies | 2001-2016 | -0.9 (-1.5 - -0.2) | 0.011 |
| West | 1992-2016 | -0.3 (-0.7 - 0.1) | 0.192 |
| 65-69 | Atlantic | 1992-2016 | -0.4 (-0.9 – 0.0) | 0.071 |
| Central | 1992-2007 | 0.0 (-0.5 - 0.4) | 0.948 |
| Central | 2007-2016 | -4.0 (-4.9 - -3.1) | < 0.001 |
| Prairies | 1992-2002 | 1.4 (0.4 - 2.5) | 0.011 |
| Prairies | 2002-2016 | -1.1 (-1.8 - -0.5) | 0.001 |
| West | 1992-2016 | -0.3 (-0.7 - 0.1) | 0.108 |
| 70-74 | Atlantic | 1992-2016 | 0.2 (-0.1 - 0.6) | 0.203 |
| Central | 1992-2008 | 0.1 (-0.3 - 0.6) | 0.621 |
| Central | 2008-2016 | -4.1 (-5.4 - -2.9) | < 0.001 |
| Prairies | 1992-2008 | 0.9 (0.2 - 1.5) | 0.008 |
| Prairies | 2008-2016 | -2.3 (-4.0 - -0.5) | 0.013 |
| West | 1992-2016 | -0.4 (-0.8 - 0.1) | 0.1 |
| 75-79 | Atlantic | 1992-2006 | 1.0 (0.1 - 1.9) | 0.039 |
| Atlantic | 2006-2016 | -1.5 (-3.0 - -0.1) | 0.043 |
| Central | 1992-2011 | -0.7 (-1.0 - -0.4) | < 0.001 |
| Central | 2011-2016 | -4.9 (-6.8 - -2.9) | < 0.001 |
| Prairies | 1992-2014 | -0.1 (-0.4 - 0.3) | 0.744 |
| Prairies | 2014-2016 | -14.6 (-26.8 - -0.2) | 0.047 |
| West | 1992-2014 | -0.3 (-0.6 - 0.1) | 0.146 |
| West | 2014-2016 | -11.2 (-23.4 - 2.9) | 0.109 |
| 80-84 | Atlantic | 1992-2016 | -0.2 (-0.6 - 0.3) | 0.423 |
| Central | 1992-2014 | -0.5 (-0.8 - -0.2) | 0.002 |
| Central | 2014-2016 | -10.7 (-20.8 - 0.7) | 0.064 |
| Prairies | 1992-1995 | -6.2 (-11.9 - -0.1) | 0.047 |
| Prairies | 1995-2004 | 0.9 (-0.5 - 2.3) | 0.202 |
| Prairies | 2004-2016 | -0.8 (-1.6 - -0.1) | 0.03 |
| West | 1992-2016 | -0.7 (-1.2 - -0.3) | 0.002 |
| 85-89 | Atlantic | 1992-2016 | -0.8 (-1.3 - -0.3) | 0.002 |
| Central | 1992-2013 | -0.2 (-0.5 - 0.1) | 0.101 |
| Central | 2013-2016 | -9.1 (-14 - -3.8) | 0.002 |
| Prairies | 1992-2016 | -0.6 (-1.1 - -0.2) | 0.009 |
| West | 1992-2013 | 0.0 (-0.6 - 0.7) | 0.967 |
| West | 2013-2016 | -8 (-18.9 - 4.3) | 0.18 |
| 90+ | Atlantic | 1992-2016 | -0.7 (-1.5 - 0.1) | 0.097 |
| Central | 1992-2014 | -0.6 (-1.3 – 0.0) | 0.052 |
| Central | 2014-2016 | -26.8 (-43.9 - -4.4) | 0.024 |
| Prairies | 1992-2010 | -0.1 (-1.0 - 0.8) | 0.845 |
| Prairies | 2010-2016 | -5.1 (-9.6 - -0.3) | 0.038 |
| West | 1992-2016 | -0.6 (-1.4 - 0.1) | 0.104 |

Notes: APC, average percentage change; CI, confidence interval. Atlantic includes Nova Scotia, Prince Edward Island, New Brunswick, and Newfoundland and Labrador. Central includes Quebec and Ontario. Prairies includes Manitoba and Saskatchewan. West includes Alberta and British Columbia. Territories includes Yukon, Northwest Territories, and Nunavut.

**Table 4. Average percent change in colorectal cancer incidence by age group for the Territories, Canada from 1992 to 2016**

|  |  |  |  |
| --- | --- | --- | --- |
| **Age group** | **Time Frame** | **APC (95%CI)** | **P value** |
| 20-49 | 1992-1993 - 2014-2016 | 6.4 (-1.7 - 15.1) | 0.109 |
| 50-74 | 1992-1993 - 2000-2001 | 21.3 (0.8 – 46.0) | 0.043 |
| 50-74 | 2000-2001 - 2014-2016 | -3.0 (-10.3 - 4.9) | 0.39 |
| 75+ | 1992-1993 - 2014-2016 | 0.4 (-6.7 – 8.0) | 0.906 |

Notes: APC, average percentage change; CI, confidence interval. Territories includes Yukon, Northwest Territories, and Nunavut.

**Table 5. Colorectal cancer incidence rate per 100,000 individuals by age group and stage at diagnosis in Atlantic, Central, the Prairies, and Western Canada from 2010 to 2016 (N=102,940)**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Age Group** | **Geography** | **Stage** | **N** | **2010Rate per 100,000(95% CI)** | **N** | **2011Rate per 100,000(95% CI)** | **N** | **2012Rate per 100,000(95% CI)** | **N** | **2013Rate per 100,000(95% CI)** | **N** | **2014Rate per 100,000(95% CI)** | **N** | **2015Rate per 100,000(95% CI)** | **N** | **2016Rate per 100,000(95% CI)** |
| 20-49 | Atlantic | All | 125 | 13.13(10.83 - 15.43) | 115 | 12.15(9.93 - 14.37) | 100 | 10.71(8.61 - 12.81) | 100 | 10.91(8.77 - 13.05) | 100 | 11.12(8.94 - 13.3) | 105 | 11.91(9.63 - 14.19) | 100 | 11.4 (9.17 - 13.64) |
| Early | 45 | 4.73 (3.45 - 6.33) | 45 | 4.76 (3.47 - 6.36) | 40 | 4.28 (3.06 - 5.83) | 35 | 3.82 (2.66 - 5.31) | 45 | 5.01 (3.65 - 6.7) | 35 | 3.97 (2.77 - 5.52) | 50 | 5.7 (4.23 - 7.52) |
| Lat | 80 | 8.4 (6.66- 10.46) | 70 | 7.4 (5.77- 9.35) | 60 | 6.43 (4.9- 8.27) | 65 | 7.09 (5.47- 9.04) | 55 | 6.12 (4.61- 7.96) | 70 | 7.94 (6.19- 10.03) | 50 | 5.7 (4.23- 7.52) |
| 50-74 | Atlantic | All | 1080 | 145.76(137.07 - 154.45) | 1115 | 146.56(137.96 - 155.16) | 1175 | 150.49(141.89 - 159.1) | 1200 | 150.03(141.54 - 158.52) | 1160 | 141.79(133.63 - 149.95) | 1240 | 148.46(140.19 - 156.72) | 1150 | 135.48(127.65 - 143.32) |
| Early | 545 | 73.55(67.38 - 79.73) | 580 | 76.24(70.03 - 82.44) | 565 | 72.36(66.4 - 78.33) | 570 | 71.26(65.41 - 77.11) | 560 | 68.45(62.78 - 74.12) | 620 | 74.23(68.39 - 80.07) | 560 | 65.98(60.51 - 71.44) |
| Late | 535 | 72.21(66.09 - 78.32) | 535 | 70.32(64.36 - 76.28) | 610 | 78.13(71.93 - 84.33) | 630 | 78.76(72.61 - 84.91) | 600 | 73.34(67.47 - 79.21) | 620 | 74.23(68.39 - 80.07) | 590 | 69.51(63.9 - 75.12) |
| 75+ | Atlantic | All | 660 | 402.24(371.55 - 432.93) | 630 | 378.47(348.92 - 408.02) | 660 | 389.79(360.06 - 419.53) | 660 | 382.64(353.45 - 411.83) | 650 | 368.82(340.46 - 397.17) | 670 | 375.63(347.19 - 404.08) | 605 | 330.15(303.84 - 356.46) |
| Early | 355 | 216.36(193.85 - 238.86) | 335 | 201.25(179.7 - 222.8) | 340 | 200.8(179.46 - 222.15) | 345 | 200.02(178.91 - 221.12) | 350 | 198.59(177.79 - 219.4) | 370 | 207.44(186.3 - 228.58) | 310 | 169.17(150.34 - 188) |
| Late | 305 | 185.88(165.02 - 206.75) | 295 | 177.22(157 - 197.44) | 320 | 188.99(168.28 - 209.7) | 315 | 182.62(162.46 - 202.79) | 300 | 170.22(150.96 - 189.48) | 300 | 168.19(149.16 - 187.23) | 295 | 160.98(142.61 - 179.35) |
| 20-49 | Central | All | 515 | 9.2 (8.4 - 9.99) | 485 | 8.67 (7.9 - 9.45) | 540 | 9.64 (8.83 - 10.45) | 510 | 9.12 (8.33 - 9.91) | 500 | 8.97 (8.18 - 9.76) | 510 | 9.18 (8.39 - 9.98) | 535 | 9.56 (8.75 - 10.37) |
| Early | 210 | 3.75 (3.24 - 4.26) | 220 | 3.93 (3.41 - 4.45) | 210 | 3.75 (3.24 - 4.26) | 205 | 3.67 (3.16 - 4.17) | 190 | 3.41 (2.92 - 3.89) | 220 | 3.96 (3.44 - 4.49) | 190 | 3.4 (2.91 - 3.88) |
| Late | 305 | 5.45 (4.84 - 6.06) | 265 | 4.74 (4.17 - 5.31) | 330 | 5.89 (5.25 - 6.53) | 305 | 5.45 (4.84 - 6.07) | 310 | 5.56 (4.94 - 6.18) | 290 | 5.22 (4.62 - 5.82) | 345 | 6.17 (5.52 - 6.82) |
| 50-74 | Central | All | 3895 | 109.09(105.66 - 112.51) | 3845 | 104.2(100.9 - 107.49) | 3820 | 100.5(97.31 - 103.68) | 3760 | 95.9(92.83 - 98.96) | 3750 | 93.02(90.05 - 96) | 3740 | 90.55(87.65 - 93.46) | 3710 | 88.05(85.22 - 90.88) |
| Early | 1925 | 53.91(51.5 - 56.32) | 1950 | 52.84(50.5 - 55.19) | 1835 | 48.27(46.07 - 50.48) | 1850 | 47.18(45.03 - 49.33) | 1875 | 46.51(44.41 - 48.62) | 1810 | 43.82(41.81 - 45.84) | 1855 | 44.03(42.02 - 46.03) |
| Late | 1970 | 55.17(52.74 - 57.61) | 1895 | 51.35(49.04 - 53.67) | 1985 | 52.22(49.92 - 54.52) | 1910 | 48.71(46.53 - 50.9) | 1875 | 46.51(44.41 - 48.62) | 1930 | 46.73(44.65 - 48.82) | 1855 | 44.03(42.02 - 46.03) |
| 75+ | Central | All | 2750 | 320.58(308.6 - 332.56) | 2790 | 318.18(306.37 - 329.98) | 2590 | 288.52(277.41 - 299.64) | 2595 | 282.34(271.48 - 293.21) | 2485 | 263.93(253.56 - 274.31) | 2525 | 262.63(252.39 - 272.87) | 2440 | 247.14(237.34 - 256.95) |
| Early | 1480 | 172.53(163.74 - 181.32) | 1485 | 169.35(160.74 - 177.96) | 1360 | 151.5(143.45 - 159.56) | 1395 | 151.78(143.81 - 159.74) | 1380 | 146.57(138.84 - 154.3) | 1425 | 148.22(140.52 - 155.91) | 1305 | 132.18(125.01 - 139.35) |
| Late | 1270 | 148.05(139.91 - 156.19) | 1305 | 148.82(140.75 - 156.9) | 1230 | 137.02(129.36 - 144.68) | 1200 | 130.56(123.18 - 137.95) | 1105 | 117.36(110.44 - 124.28) | 1100 | 114.41(107.65 - 121.17) | 1135 | 114.96(108.27 - 121.65) |
| 20-49 | Prairies | All | 225 | 8.5 (7.39 - 9.62) | 240 | 9.02 (7.88 - 10.17) | 235 | 8.7 (7.59 - 9.82) | 205 | 7.45 (6.43 - 8.47) | 265 | 9.46 (8.32 - 10.6) | 305 | 10.83(9.61 - 12.04) | 275 | 9.68 (8.54 - 10.83) |
| Early | 80 | 3.02 (2.4 - 3.76) | 85 | 3.2 (2.55 - 3.95) | 85 | 3.15 (2.51 - 3.89) | 80 | 2.91 (2.31 - 3.62) | 105 | 3.75 (3.03 - 4.46) | 110 | 3.9 (3.17 - 4.63) | 95 | 3.35 (2.71 - 4.09) |
| Late | 145 | 5.48 (4.59 - 6.37) | 155 | 5.83 (4.91 - 6.75) | 150 | 5.56 (4.67 - 6.44) | 125 | 4.54 (3.75 - 5.34) | 160 | 5.71 (4.83 - 6.6) | 195 | 6.92 (5.95 - 7.89) | 180 | 6.34 (5.41 - 7.26) |
| 50-74 | Prairies | All | 1750 | 117.32(111.82 - 122.82) | 1840 | 119.12(113.68 - 124.57) | 1915 | 119.94(114.57 - 125.31) | 1860 | 112.66(107.54 - 117.78) | 2055 | 120.9(115.67 - 126.13) | 1955 | 112.48(107.49 - 117.46) | 2015 | 114.02(109.04 - 119) |
| Early | 855 | 57.32(53.48 - 61.16) | 870 | 56.32(52.58 - 60.07) | 910 | 57 (53.29 - 60.7) | 910 | 55.12(51.54 - 58.7) | 1010 | 59.42(55.76 - 63.08) | 980 | 56.38(52.85 - 59.91) | 970 | 54.89(51.43 - 58.34) |
| Late | 895 | 60 (56.07 - 63.93) | 970 | 62.8(58.85 - 66.75) | 1005 | 62.95(59.05 - 66.84) | 950 | 57.54(53.88 - 61.2) | 1045 | 61.48(57.75 - 65.21) | 975 | 56.09(52.57 - 59.62) | 1045 | 59.13(55.55 - 62.72) |
| 75+ | Prairies | All | 1220 | 355.49(335.55 - 375.44) | 1190 | 342.77(323.3 - 362.25) | 1045 | 296.88(278.88 - 314.88) | 1200 | 335.97(316.96 - 354.98) | 1155 | 318.93(300.54 - 337.32) | 1135 | 309.58(291.57 - 327.59) | 1010 | 269.51(252.88 - 286.13) |
| Early | 650 | 189.4(174.84 - 203.96) | 620 | 178.59(164.53 - 192.64) | 560 | 159.09(145.92 - 172.27) | 650 | 181.99(168 - 195.98) | 625 | 172.58(159.05 - 186.11) | 625 | 170.47(157.11 - 183.84) | 515 | 137.42(125.55 - 149.29) |
| Late | 570 | 166.09(152.46 - 179.73) | 570 | 164.18(150.71 - 177.66) | 485 | 137.79(125.52 - 150.05) | 550 | 153.99(141.12 - 166.86) | 530 | 146.35(133.89 - 158.81) | 510 | 139.1(127.03 - 151.18) | 495 | 132.08(120.45 - 143.72) |
| 20-49 | West | All | 150 | 7.91 (6.65 - 9.18) | 150 | 7.94 (6.67 - 9.21) | 185 | 9.71 (8.31 - 11.11) | 195 | 10.18(8.75 - 11.61) | 170 | 8.79 (7.47 - 10.11) | 155 | 7.97 (6.72 - 9.23) | 170 | 8.64 (7.34 - 9.94) |
| Early | 55 | 2.9 (2.19 - 3.78) | 60 | 3.18 (2.42 - 4.09) | 75 | 3.94 (3.1 - 4.94) | 70 | 3.66 (2.85 - 4.62) | 60 | 3.1 (2.37 - 3.99) | 55 | 2.83 (2.13 - 3.68) | 65 | 3.3 (2.55 - 4.21) |
| Late | 95 | 5.01 (4.05 - 6.13) | 90 | 4.77 (3.83 - 5.86) | 110 | 5.78 (4.7 - 6.86) | 125 | 6.53 (5.38 - 7.67) | 110 | 5.69 (4.63 - 6.75) | 100 | 5.14 (4.14 - 6.15) | 105 | 5.34 (4.32 - 6.36) |
| 50-74 | West | All | 1295 | 100.14(94.69 - 105.6) | 1310 | 98.44(93.11 - 103.77) | 1425 | 103.58(98.2 - 108.96) | 1585 | 111.2(105.72 - 116.67) | 1615 | 109.51(104.17 - 114.85) | 1700 | 111.82(106.5 - 117.13) | 1505 | 96.43(91.56 - 101.3) |
| Early | 530 | 40.99(37.5 - 44.47) | 610 | 45.84(42.2 - 49.47) | 665 | 48.34(44.66 - 52.01) | 755 | 52.97(49.19 - 56.75) | 750 | 50.86(47.22 - 54.5) | 845 | 55.58(51.83 - 59.33) | 775 | 49.66(46.16 - 53.15) |
| Late | 765 | 59.16(54.97 - 63.35) | 700 | 52.6 (48.7 - 56.5) | 760 | 55.24(51.32 - 59.17) | 830 | 58.23(54.27 - 62.19) | 865 | 58.65(54.75 - 62.56) | 855 | 56.24(52.47 - 60.01) | 730 | 46.77(43.38 - 50.17) |
| 75+ | West | All | 865 | 278.97(260.38 - 297.57) | 880 | 277.62(259.27 - 295.96) | 965 | 298.48(279.64 - 317.31) | 1055 | 319.28(300.01 - 338.55) | 1050 | 310.47(291.69 - 329.25) | 925 | 267.24(250.02 - 284.47) | 805 | 226.12(210.5 - 241.74) |
| Early | 435 | 140.29(127.11 - 153.48) | 440 | 138.81(125.84 - 151.78) | 505 | 156.2(142.57 - 169.82) | 520 | 157.37(143.84 - 170.9) | 545 | 161.15(147.62 - 174.68) | 480 | 138.68(126.27 - 151.08) | 400 | 112.36(101.35 - 123.37) |
| Late | 430 | 138.68(125.57 - 151.79) | 440 | 138.81(125.84 - 151.78) | 460 | 142.28(129.28 - 155.28) | 535 | 161.91(148.19 - 175.63) | 505 | 149.32(136.3 - 162.34) | 445 | 128.57(116.62 - 140.51) | 405 | 113.76(102.68 - 124.84) |

Notes: Rate per 100,000. All numbers are rounded. All includes Atlantic, Central, Prairies, and Western Canada; Atlantic includes Nova Scotia, Prince Edward Island, New Brunswick, and Newfoundland and Labrador. Central includes Quebec and Ontario. Prairies includes Manitoba and Saskatchewan. West includes Alberta and British Columbia. CI, confidence interval.

**Table 6. Average percent change in colorectal cancer incidence by age group and stage at diagnosis in Atlantic, Central, the Prairies, and Western Canada from 2010 to 2016**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Age** | **Geography** | **Time Frame** | **Stage** | **APC (95% CI)** | **P value** |
| 20-49 | Atlantic | 2010 - 2016 | Early  | 1.28 (-5.81 - 8.9) | 0.671 |
| Late | -3.76 (-9.45 - 2.3) | 0.168 |
| 50-74 | Early | -1.54 (-3.44 - 0.4) | 0.096 |
| Late | -0.25 (-2.76 - 2.33) | 0.813 |
| 75+ | Early | -2.43 (-5.26 - 0.49) | 0.085 |
| Late | -2.26 (-3.88 - -0.61) | 0.017 |
| 20-49 | Central | 2010 - 2016 | Early | -1.34 (-4.16 - 1.56) | 0.284 |
| Late | 1.83 (-2.14 - 5.97) | 0.294 |
| 50-74 | Early | -3.57 (-4.66 - -2.48) | <0.001 |
| Late | -3.45 (-4.46 - -2.42) | <0.001 |
| 75+ | Early | -3.85 (-5.45 - -2.22) | 0.002 |
| Late | -5.01 (-6.56 - -3.44) | <0.001 |
| 20-49 | Prairies | 2010 - 2016 | Early | 3.19 (-1.41 - 8) | 0.137 |
| Late | 2.93 (-3.2 - 9.44) | 0.281 |
| 50-74 | Early | -0.31 (-1.67 - 1.07) | 0.589 |
| Late | -1.04 (-2.99 - 0.95) | 0.234 |
| 75+ | Early | -3.42 (-7.24 - 0.56) | 0.078 |
| Late | -3.37 (-5.89 - -0.77) | 0.021 |
| 20-49 | West | 2010 - 2016 | Early | -0.28 (-6.42 - 6.26) | 0.913 |
| Late  | 1.18 (-4.18 - 6.83) | 0.605 |
| 50-74 | Early | 3.68 (0.29 - 7.19) | 0.038 |
| Late | -1.81 (-5.56 - 2.09) | 0.282 |
| 75+ | 2010 - 2014 | Early | 4.29 (-3.13 - 12.28) | 0.134 |
| 2014 - 2016 | Early | -16.86 (-34.16 - 5) | 0.077 |
| 2010 - 2013 | Late | 5.92 (2.6 - 9.34) | 0.016 |
| 2013 - 2016 | Late | -10.19 (-13 - -7.29) | 0.005 |

Notes: APC, average percentage change; CI, confidence interval. Atlantic includes Nova Scotia, Prince Edward Island, New Brunswick, and Newfoundland and Labrador. Central includes Quebec and Ontario. Prairies includes Manitoba and Saskatchewan. West includes Alberta and British Columbia.

**Table 7. Colorectal cancer mortality rate per 100,000 individuals by age group in Atlantic, Central, the Prairies, and Western Canada from 1980 to 2018 (N=267,970)**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Agegroup** | **Geography** | **N** | **1980-1984Rate per100,000(95%CI)** | **N** | **1985-1989Rate per100,000(95%CI)** | **N** | **1990-1994Rate per100,000(95%CI)** | **N** | **1995-1999Rate per100,000(95%CI)** | **N** | **2000-2004Rate per100,000(95%CI)** | **N** | **2005-2009Rate per100,000(95%CI)** | **N** | **2010-2014Rate per100,000(95%CI)** | **N** | **2015-2018Rate per100,000(95%CI)** |
| 20-39 (N=2,665) | All | 430 | 1 (0.9 -1.09) | 415 | 0.89 (0.81- 0.98) | 395 | 0.83 (0.75- 0.92) | 405 | 0.88 (0.79- 0.96) | 270 | 0.6 (0.53 -0.67) | 245 | 0.55 (0.48- 0.61) | 275 | 0.59 (0.52- 0.65) | 230 | 0.59 (0.51- 0.66) |
| Atlantic | 50 | 1.34 (1 -1.77) | 40 | 1 (0.72 -1.37) | 40 | 1.02 (0.73- 1.39) | 40 | 1.1 (0.79 -1.5) | 30 | 0.92 (0.62- 1.32) | 30 | 1.01 (0.68- 1.44) | 15 | 0.52 (0.29- 0.85) | 20 | 0.89 (0.54- 1.38) |
| Central | 280 | 1.04 (0.92- 1.17) | 270 | 0.93 (0.82- 1.04) | 280 | 0.94 (0.83- 1.05) | 255 | 0.89 (0.78- 1) | 165 | 0.59 (0.5 -0.68) | 140 | 0.5 (0.42 -0.59) | 170 | 0.59 (0.5 -0.68) | 130 | 0.55 (0.45- 0.64) |
| Prairies | 65 | 0.84 (0.65- 1.08) | 65 | 0.8 (0.62 -1.02) | 40 | 0.5 (0.36 -0.68) | 60 | 0.77 (0.59- 0.99) | 50 | 0.65 (0.48- 0.85) | 40 | 0.48 (0.35- 0.66) | 45 | 0.49 (0.36- 0.65) | 55 | 0.69 (0.52- 0.9) |
| West | 35 | 0.71 (0.49- 0.98) | 40 | 0.76 (0.54- 1.04) | 35 | 0.61 (0.43- 0.85) | 50 | 0.82 (0.61- 1.08) | 25 | 0.43 (0.28- 0.63) | 35 | 0.6 (0.42 -0.84) | 45 | 0.73 (0.53- 0.97) | 25 | 0.47 (0.3 -0.7) |
| 40-49 (N=8,995) | All | 1155 | 8.6 (8.11 -9.1) | 1250 | 7.88 (7.45- 8.32) | 1370 | 6.98 (6.61- 7.35) | 1440 | 6.29 (5.96- 6.61) | 1075 | 4.2 (3.95 -4.45) | 995 | 3.74 (3.51- 3.97) | 1070 | 4.27 (4.01- 4.52) | 640 | 3.36 (3.1 -3.62) |
| Atlantic | 130 | 11.81 (9.78- 13.84) | 135 | 10.26 (8.53- 11.99) | 135 | 8.27 (6.88- 9.67) | 145 | 7.85 (6.58- 9.13) | 95 | 4.92 (3.98- 6.01) | 90 | 4.73 (3.81- 5.82) | 100 | 5.73 (4.61- 6.86) | 65 | 5.14 (3.96- 6.55) |
| Central | 750 | 8.68 (8.06- 9.3) | 830 | 8.15 (7.59- 8.7) | 890 | 7.14 (6.67- 7.61) | 940 | 6.59 (6.17- 7.02) | 665 | 4.15 (3.84- 4.47) | 630 | 3.76 (3.46- 4.05) | 670 | 4.28 (3.96- 4.61) | 355 | 3.03 (2.72- 3.35) |
| Prairies | 170 | 7.97 (6.77- 9.17) | 180 | 7.31 (6.24- 8.38) | 195 | 6.43 (5.53- 7.33) | 205 | 5.54 (4.78- 6.3) | 180 | 4.22 (3.6 -4.84) | 160 | 3.59 (3.03- 4.15) | 150 | 3.47 (2.91- 4.02) | 130 | 3.73 (3.09- 4.38) |
| West | 105 | 6.79 (5.49- 8.09) | 105 | 5.57 (4.5 -6.63) | 150 | 6.01 (5.05- 6.98) | 150 | 4.83 (4.06- 5.61) | 135 | 3.98 (3.31- 4.65) | 115 | 3.32 (2.71- 3.93) | 150 | 4.47 (3.76- 5.19) | 90 | 3.46 (2.78- 4.25) |
| 50-59 (N=27,875) | All | 3900 | 31.92(30.92 -32.92) | 3805 | 30.69(29.72 -31.67) | 3700 | 28.04(27.14 -28.94) | 3855 | 24.5 (23.73- 25.28) | 3370 | 17.38(16.79 -17.97) | 3340 | 14.66(14.16 -15.16) | 3705 | 14.43(13.97 -14.9) | 2200 | 10.28 (9.85- 10.71) |
| Atlantic | 370 | 37.93(34.07 -41.8) | 355 | 36.09(32.34 -39.85) | 370 | 34.94(31.38 -38.5) | 385 | 30.13(27.12 -33.14) | 345 | 21.83(19.52 -24.13) | 335 | 18.71(16.71 -20.72) | 385 | 20.18(18.17 -22.2) | 210 | 13.6 (11.76- 15.44) |
| Central | 2655 | 33.53(32.26 -34.81) | 2565 | 31.98(30.74 -33.22) | 2415 | 28.43(27.29 -29.56) | 2525 | 25.19(24.21 -26.17) | 2110 | 17.3 (16.56- 18.03) | 2075 | 14.64(14.01 -15.27) | 2215 | 13.87(13.29 -14.45) | 1310 | 9.82 (9.29- 10.35) |
| Prairies | 500 | 26.01(23.73 -28.29) | 525 | 27.14(24.82 -29.47) | 540 | 26.96(24.69 -29.23) | 530 | 22.56(20.64 -24.48) | 500 | 16.85(15.37 -18.33) | 530 | 14.29(13.07 -15.51) | 625 | 14.41(13.28 -15.54) | 385 | 10.76 (9.69- 11.84) |
| West | 375 | 26.71(24.01 -29.42) | 360 | 24.7 (22.15- 27.25) | 375 | 22.89(20.58 -25.21) | 415 | 19.93(18.01 -21.85) | 415 | 15.71 (14.2- 17.22) | 400 | 12.85(11.59 -14.1) | 480 | 13.89(12.65 -15.13) | 295 | 10.04 (8.89- 11.18) |
| 60-69 (N=56,990) | All | 7465 | 79.26(77.47 -81.06) | 8305 | 78.47(76.78 -80.16) | 8460 | 74.02(72.44 -75.59) | 8205 | 70.11(68.59 -71.63) | 6165 | 49.42(48.19 -50.66) | 6100 | 40.7 (39.68- 41.72) | 7520 | 40.54(39.63 -41.46) | 4770 | 27.63(26.85 -28.41) |
| Atlantic | 745 | 86.63(80.41 -92.85) | 730 | 82.36(76.38 -88.33) | 790 | 88.47 (82.3- 94.64) | 740 | 81.37(75.51 -87.23) | 600 | 60.45(55.61 -65.29) | 630 | 51.65(47.62 -55.69) | 745 | 49.07(45.54 -52.59) | 505 | 36.5 (33.32- 39.69) |
| Central | 4805 | 82.31(79.98 -84.64) | 5505 | 82.12(79.96 -84.29) | 5730 | 78.01(75.99 -80.03) | 5475 | 73.15(71.22 -75.09) | 3960 | 49.85(48.29 -51.4) | 3810 | 40.11(38.84 -41.39) | 4540 | 39 (37.86 -40.13) | 2850 | 26.68 (25.7- 27.66) |
| Prairies | 1025 | 66.71(62.63 -70.8) | 1175 | 70.82(66.77 -74.87) | 1060 | 61.08(57.41 -64.76) | 1115 | 63.07(59.37 -66.77) | 935 | 50.35(47.12 -53.58) | 870 | 39.41(36.79 -42.03) | 1155 | 41.51(39.12 -43.9) | 775 | 28.62 (26.6- 30.63) |
| West | 890 | 75.17(70.23 -80.1) | 895 | 67.05(62.65 -71.44) | 880 | 60.42(56.43 -64.41) | 875 | 56.75(52.99 -60.51) | 670 | 39.89(36.87 -42.91) | 790 | 38.28(35.61 -40.95) | 1080 | 41.46(38.98 -43.93) | 640 | 25.72(23.73 -27.71) |
| 70-79 (N=79,940) | All | 9165 | 164.97(161.6 -168.35) | 10500 | 162.08(158.98 -165.18) | 11070 | 147.72(144.97 -150.47) | 12065 | 142.23(139.7 -144.77) | 10280 | 110.79(108.65 -112.93) | 9735 | 100.17(98.18 -102.16) | 10565 | 99.13(97.24 -101.02) | 6560 | 65.02(63.44 -66.59) |
| Atlantic | 890 | 173.28(161.9 -184.66) | 1005 | 168.37(157.96 -178.78) | 1075 | 163.08(153.33 -172.83) | 1100 | 160.49(151 -169.97) | 985 | 140.49(131.72 -149.27) | 925 | 125.91(117.8 -134.03) | 1090 | 132.05(124.21 -139.89) | 735 | 92.06 (85.4- 98.71) |
| Central | 5915 | 173.67(169.25 -178.1) | 6745 | 171.18(167.09 -175.26) | 7070 | 154.11(150.52 -157.7) | 7965 | 150.21(146.92 -153.51) | 6670 | 113.16(110.44 -115.87) | 6285 | 101.63(99.12 -104.15) | 6540 | 96.21(93.88 -98.54) | 4035 | 62.91(60.97 -64.85) |
| Prairies | 1355 | 144.64(136.93 -152.34) | 1510 | 139.97(132.91 -147.03) | 1670 | 136.82(130.26 -143.39) | 1670 | 125.47(119.45 -131.49) | 1405 | 99.05(93.87 -104.23) | 1355 | 92.55(87.62 -97.48) | 1535 | 99.01(94.06 -103.97) | 885 | 61.35 (57.3- 65.39) |
| West | 1005 | 143.76(134.87 -152.64) | 1240 | 143.83(135.82 -151.83) | 1255 | 122.27(115.5 -129.03) | 1330 | 114.29(108.15 -120.43) | 1220 | 96.44(91.03 -101.85) | 1170 | 87.61(82.59 -92.63) | 1400 | 94.32(89.38 -99.26) | 905 | 63.07(58.96 -67.18) |
| 80-89 (N=70,590) | All | 6210 | 307.12(299.48 -314.76) | 7300 | 297.98(291.14 -304.81) | 8350 | 279.59(273.6 -285.59) | 9455 | 268.62(263.21 -274.04) | 9040 | 214.51(210.09 -218.94) | 9945 | 195.91(192.06 -199.76) | 12505 | 217.96(214.14 -221.78) | 7785 | 157.72(154.22 -161.23) |
| Atlantic | 650 | 336.46(310.59 -362.32) | 695 | 317.28(293.69 -340.87) | 825 | 312.17(290.87 -333.48) | 915 | 294.29(275.22 -313.36) | 945 | 267.08(250.05 -284.11) | 905 | 234.87(219.57 -250.17) | 1070 | 264.3(248.46 -280.13) | 665 | 192.02(177.42 -206.61) |
| Central | 3930 | 323.15(313.05 -333.26) | 4750 | 320.16(311.06 -329.27) | 5330 | 295.8(287.86 -303.74) | 5965 | 284.53(277.31 -291.75) | 5595 | 220.52(214.74 -226.3) | 6365 | 201.25(196.3 -206.19) | 8140 | 222.42(217.58 -227.25) | 5055 | 159.83(155.43 -164.24) |
| Prairies | 940 | 262.47(245.7 -279.25) | 1125 | 260.18(244.97 -275.38) | 1280 | 245.95(232.47 -259.42) | 1435 | 234.44(222.31 -246.57) | 1330 | 186.74(176.7 -196.77) | 1375 | 169.67(160.7 -178.64) | 1715 | 195.66(186.4 -204.93) | 1065 | 144.89(136.19 -153.6) |
| West | 690 | 271.08(250.86 -291.31) | 730 | 231.92(215.09 -248.74) | 915 | 228.82(214 -243.65) | 1140 | 227.84(214.62 -241.07) | 1170 | 191.51(180.54 -202.49) | 1300 | 181.09(171.24 -190.93) | 1580 | 198.44(188.65 -208.22) | 1000 | 144.55(135.59 -153.51) |
| 90+ (N=20,915) | All | 1425 | 430.72(408.36 -453.09) | 1845 | 462.86(441.74 -483.98) | 2070 | 421.51(403.35 -439.67) | 2390 | 413.73(397.15 -430.32) | 2505 | 354.07(340.21 -367.94) | 2885 | 323.7(311.88 -335.51) | 4370 | 367.28(356.39 -378.17) | 3425 | 288.24(278.59 -297.89) |
| Atlantic | 135 | 403.83(335.71 -471.95) | 215 | 538.91(466.88 -610.95) | 205 | 451.34(389.56 -513.13) | 240 | 475.34(415.2 -535.48) | 275 | 443.62(391.19 -496.05) | 280 | 370.93(327.49 -414.38) | 410 | 441.26(398.55 -483.98) | 300 | 372.19(330.07 -414.3) |
| Central | 820 | 453.82(422.75 -484.88) | 1075 | 467.8(439.83 -495.76) | 1290 | 443.28(419.09 -467.47) | 1500 | 438.4(416.21 -460.58) | 1555 | 375.64(356.97 -394.32) | 1755 | 337.2(321.42 -352.97) | 2700 | 375.42(361.26 -389.58) | 2190 | 292.16(279.92 -304.4) |
| Prairies | 280 | 422.8(373.28 -472.32) | 315 | 428.02(380.75 -475.29) | 340 | 378.32(338.11 -418.54) | 400 | 369.48(333.27 -405.69) | 395 | 303.5(273.57 -333.43) | 450 | 276.7(251.14 -302.27) | 680 | 340.28(314.7 -365.86) | 495 | 264.21(240.94 -287.49) |
| West | 190 | 376.27(322.77 -429.78) | 240 | 433.84(378.95 -488.73) | 235 | 362.68(316.31 -409.05) | 250 | 325.69(285.32 -366.06) | 280 | 276.17(243.83 -308.52) | 400 | 301.45(271.91 -331) | 580 | 326.07(299.53 -352.61) | 440 | 257.75(233.67 -281.84) |

Notes: Rate per 100,000. All numbers are rounded. All includes Atlantic, Central, Prairies, West, and Territories; Atlantic includes Nova Scotia, Prince Edward Island, New Brunswick, and Newfoundland and Labrador. Central includes Quebec and Ontario. Prairies includes Manitoba and Saskatchewan. West includes Alberta and British Columbia. CI, confidence interval.

**Table 8. Colorectal cancer mortality rate per 100,000 individuals by age group in the Territories, Canada from 1980 to 2018 (N=440)**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Agegroup** | **N** | **1980-1989 Rate per100,000 (95% CI)** | **N** | **1990-1999 Rate per100,000 (95% CI)** | **N** | **2000-2009 Rate per100,000 (95% CI)** | **N** | **2010-2018 Rate per100,000 (95% CI)** |
| 20-49 | 5 | 1.32 (0.43 - 3.08) | 10 | 2.09 (1 - 3.85) | 15 | 3.04 (1.7 - 5.01) | 10 | 2.1 (1.01 - 3.86) |
| 50-74 | 35 | 45.92 (31.98 - 63.86) | 45 | 41.51 (30.28 - 55.55) | 90 | 50.47 (40.59 - 62.04) | 75 | 31.3 (24.62 - 39.23) |
| 75+ | 30 | 372.44 (251.28 - 531.68) | 30 | 282.35 (190.5 - 403.08) | 45 | 273.81 (199.72 - 366.37) | 50 | 227.22 (168.65 - 299.56) |

Notes: Rate per 100,000. All numbers are rounded. Territories includes Yukon, Northwest Territories, and Nunavut. CI, confidence interval.

**Table 9. Annual percent change in colorectal cancer mortality by age group in Atlantic, Central, the Prairies, and Western Canada from 1980 to 2018**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Age group** | **Geography** | **Time Frame** | **APC (95%CI)** | **P-value** |
| 20-39 | Atlantic | 1980-1984 - 2015-2018 | -7.3 (-14.6 - 0.6) | 0.064 |
| Central | 1980-1984 - 2015-2018 | -10.2 (-14.7 - -5.4) | 0.002 |
| Prairies | 1980-1984 - 2015-2018 | -4.8 (-12.2 - 3.3) | 0.189 |
| West | 1980-1984 - 2015-2018 | -4.4 (-12.0 - 3.9) | 0.237 |
| 40-49 | Atlantic | 1980-1984 - 2015-2018 | -12.2 (-17.5 - -6.4) | 0.002 |
| Central | 1980-1984 - 2015-2018 | -14.3 (-18.3 - -10.1) | < 0.001 |
| Prairies | 1980-1984 - 2015-2018 | -12.3 (-15.7 - -8.8) | < 0.001 |
| West | 1980-1984 - 2015-2018 | -8.9 (-13.4 - -4.1) | < 0.004 |
| 50-59 | Atlantic | 1980-1984 - 2015-2018 | -13.6 (-17.2 - -9.9) | < 0.001 |
| Central | 1980-1984 - 2015-2018 | -16.5 (-19.5 - -13.3) | < 0.001 |
| Prairies | 1980-1984 - 2015-2018 | -12.8 (-16.6 - -9.0) | < 0.001 |
| West | 1980-1984 - 2015-2018 | -13.0 (-15.7 - -10.2) | < 0.001 |
| 60-69 | Atlantic | 1980-1984 - 1990-1994 | 2.9 (-26.7 - 44.4) | 0.808 |
| Atlantic | 1990-1994 - 2015-2018 | -15.7 (-21.8 - -9.0) | 0.006 |
| Central | 1980-1984 - 2015-2018 | -15.3 (-19.6 - -10.8) | < 0.001 |
| Prairies | 1980-1984 - 2015-2018 | -11.4 (-15.3 - -7.2) | 0.001 |
| West | 1980-1984 - 2015-2018 | -12.9 (-16.8 - -8.9) | < 0.001 |
| 70-79 | Atlantic | 1980-1984 - 2015-2018 | -7.5 (-10.8 - -4.1) | 0.002 |
| Central | 1980-1984 - 2015-2018 | -12.8 (-16.6 - -8.9) | < 0.001 |
| Prairies | 1980-1984 - 2015-2018 | -10.3 (-14.4 - -6.0) | 0.001 |
| West | 1980-1984 - 2015-2018 | -10.2 (-13.3 - -7.0) | < 0.001 |
| 80-89 | Atlantic | 1980-1984 - 2015-2018 | -6.7 (-9.4 - -3.8) | 0.001 |
| Central | 1980-1984 - 2015-2018 | -9.3 (-12.4 - -6.0) | < 0.001 |
| Prairies | 1980-1984 - 2015-2018 | -7.9 (-11.0 - -4.7) | 0.001 |
| West | 1980-1984 - 2015-2018 | -7.0 (-9.8 - -4.0) | 0.001 |
| 90+ | Atlantic | 1980-1984 - 2015-2018 | -2.6 (-6.8 - 1.8) | 0.19 |
| Central | 1980-1984 - 2015-2018 | -6.0 (-8.6 - -3.2) | 0.002 |
| Prairies | 1980-1984 - 2015-2018 | -6.4 (-9.7 - -3.1) | 0.004 |
| West | 1980-1984 - 2015-2018 | -5.5 (-9.2 - -1.8) | 0.012 |

Notes: APC, average percentage change; CI, confidence interval, *P*<.05. Atlantic includes Nova Scotia, Prince Edward Island, New Brunswick, and Newfoundland and Labrador. Central includes Quebec and Ontario. Prairies includes Manitoba and Saskatchewan. West includes Alberta and British Columbia.

**Table 10. Annual percent change in colorectal cancer mortality by age group for the Territories, Canada from 1980 to 2018**

|  |  |  |
| --- | --- | --- |
| Age group | APC (95% CI) | P-value |
| 20-49 | 19.4 (-34.5 - 117.4) | 0.332 |
| 50-74 | -9.1 (-38.5 - 34.4) | 0.404 |
| 75+ | -14.0 (-25.0 - -1.4) | 0.041 |

Notes: APC, average percentage change; CI, confidence interval. Territories includes Yukon, Northwest Territories, and Nunavut.

**Figure 1: Time trends in colorectal cancer incidence rate per 100,000 individuals by age group and stage at diagnosis in Atlantic, Central, the Prairies, and Western Canada, 2010 to 2016**

 

 

 