**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** | **1992-1996 Rate per 100,000 (95% CI)** | **N** | **1997-2001 Rate per 100,000 (95% CI)** | **N** | **2002-2006 Rate per 100,000 (95% CI)** | **N** | **2007-2011 Rate per 100,000 (95% CI)** | **N** | **2012-2016 Rate 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** | **1992-1995 Rate per 100,000 (95% CI)** | **N** | **1996-1999 Rate per 100,000 (95% CI)** | **N** | **2000-2003 Rate per 100,000 (95% CI)** | **N** | **2004-2007 Rate per 100,000 (95% CI)** | **N** | **2008-2011 Rate per 100,000 (95% CI)** | **N** | **2012-2016 Rate 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** | **2010 Rate per 100,000 (95% CI)** | **N** | **2011 Rate per 100,000 (95% CI)** | **N** | **2012 Rate per 100,000 (95% CI)** | **N** | **2013 Rate per 100,000 (95% CI)** | **N** | **2014 Rate per 100,000 (95% CI)** | **N** | **2015 Rate per 100,000 (95% CI)** | **N** | **2016 Rate 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)**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Age group** | **Geography** | **N** | **1980-1984 Rate per 100,000 (95%CI)** | **N** | **1985-1989 Rate per 100,000 (95%CI)** | **N** | **1990-1994 Rate per 100,000 (95%CI)** | **N** | **1995-1999 Rate per 100,000 (95%CI)** | **N** | **2000-2004 Rate per 100,000 (95%CI)** | **N** | **2005-2009 Rate per 100,000 (95%CI)** | **N** | **2010-2014 Rate per 100,000 (95%CI)** | **N** | **2015-2018 Rate per 100,000 (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)**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Age group** | **N** | **1980-1989 Rate per 100,000 (95% CI)** | **N** | **1990-1999 Rate per 100,000 (95% CI)** | **N** | **2000-2009 Rate per 100,000 (95% CI)** | **N** | **2010-2018 Rate per 100,000 (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**

 

 

 