

Appendix 1 (as supplied by the authors): Cancer cases observed in Alberta (2012) and proportions attributable to active smoking

| Age at Exposure | Age at Outcome | Cancer Site | Total Obs. Cases | Total PAR (95% CI) | Men Obs. Cases | Men PAR (95% CI) | Women Obs. Cases | Women PAR (95% CI) |
|-----------------|----------------|-------------------------|------------------|--------------------|----------------|------------------|------------------|--------------------|
| 20-34 | 30-44 | Lung | 21 | 78.4 (73.3,82.8) | 13 | 79.8 (74.8,84.1) | 8 | 76.6 (71.2,81.3) |
| | 30-44 | Colorectum | 72 | 10.9 (7.7,14.1) | 37 | 11.5 (8.1,15.0) | 35 | 10.2 (7.3,13.2) |
| | 30-44 | Kidney | 42 | 20.3 (15.2,25.5) | 28 | 21.6 (16.3,27.1) | 14 | 18.9 (14.0,23.8) |
| | 25-39 | Pancreas | 5 | 23.0 (18.0,27.9) | < 5 | 24.7 (19.4,29.8) | < 5 | 21.2 (16.3,25.8) |
| | 30-44 | Oral cavity and pharynx | 36 | 49.0 (37.5,59.4) | 24 | 51.6 (39.7,61.9) | 12 | 45.9 (34.5,56.7) |
| | 30-44 | Bladder | 0 | 45.4 (37.6,52.9) | 0 | 47.4 (39.4,55.2) | 0 | 43.0 (35.3,50.5) |
| | 30-44 | Stomach | 10 | 21.9 (16.1,27.7) | 5 | 23.9 (17.3,30.3) | 5 | 19.7 (14.5,25.0) |
| | 25-39 | Liver | < 5 | 25.2 (15.1,35.1) | < 5 | 26.5 (16.1,36.4) | < 5 | 23.9 (14.1,34.1) |
| | 25-39 | Ovary | 15 | 3.4 (1.0,5.9) | | | 15 | 3.4 (1.0,5.9) |
| | 30-44 | Esophagus | 5 | 45.2 (38.5,51.5) | < 5 | 46.9 (40.1,53.7) | < 5 | 43.1 (36.7,49.5) |
| | 30-44 | Myeloid Leukemia | 19 | 9.8 (-28.1,59.1) | 10 | 10.1 (0.0,59.5) | 9 | 9.5 (0.0,57.7) |
| | 30-44 | Cervix | 49 | 25.3 (9.3,44.4) | | | 49 | 25.3 (9.3,44.4) |
| | 30-44 | Larynx | - | - | - | - | - | - |
| 35-44 | 45-54 | Lung | 127 | 78.3 (73.4,82.6) | 51 | 79.3 (74.4,83.5) | 76 | 77.1 (71.7,81.6) |
| | 45-54 | Colorectum | 233 | 11.5 (8.3,14.6) | 125 | 12.1 (8.7,15.4) | 108 | 10.9 (7.9,14.0) |
| | 45-54 | Kidney | 84 | 20.6 (15.5,25.5) | 56 | 21.5 (16.3,26.7) | 28 | 19.5 (14.7,24.3) |
| | 40-49 | Pancreas | 45 | 22.5 (17.4,27.6) | 19 | 23.6 (18.3,28.9) | 26 | 21.3 (16.3,26.3) |
| | 45-54 | Oral cavity and pharynx | 76 | 47.1 (35.1,58.1) | 62 | 48.8 (36.0,59.8) | 14 | 45.2 (33.1,56.3) |
| | 45-54 | Bladder | < 21 | 45.4 (37.9,52.6) | 16 | 46.9 (39.2,54.2) | < 5 | 43.8 (36.3,50.9) |
| | 45-54 | Stomach | < 18 | 23.1 (17.1,29.2) | < 5 | 24.2 (17.8,30.8) | 13 | 21.9 (16.0,27.8) |
| | 40-49 | Liver | 26 | 26.4 (15.2,37.9) | 20 | 27.6 (16.0,39.0) | 6 | 25.3 (14.3,36.5) |
| | 40-49 | Ovary | 41 | 3.7 (1.1,6.5) | | | 41 | 3.7 (1.1,6.5) |
| | 45-54 | Esophagus | < 26 | 46.2 (39.9,52.2) | 21 | 47.7 (41.5,53.8) | < 5 | 44.7 (38.4,50.9) |
| | 45-54 | Myeloid Leukemia | 28 | 11.3 (0.0,63.5) | 15 | 11.8 (0.0,64.7) | 13 | 10.8 (0.0,63.2) |
| | 45-54 | Cervix | 30 | 28.3 (10.1,48.6) | | | 30 | 28.3 (10.1,48.6) |
| | 45-54 | Larynx | 6 | 75.4 (64.5,85.0) | 6 | 76.4 (64.6,85.9) | - | - |
| 45-64 | 55-74 | Lung | 1132 | 77.6 (72.6,81.9) | 558 | 78.7 (73.8,83.0) | 574 | 76.3 (71.0,80.9) |
| | 55-74 | Colorectum | 982 | 11.9 (8.7,15.1) | 605 | 12.8 (9.4,16.2) | 377 | 11.0 (8.1,14.1) |
| | 55-74 | Kidney | 269 | 20.3 (15.3,25.2) | 188 | 21.4 (16.2,26.5) | 81 | 19.1 (14.5,23.8) |
| | 50-69 | Pancreas | 179 | 21.4 (16.0,26.8) | 83 | 22.5 (16.7,28.1) | 96 | 20.3 (15.1,25.4) |
| | 55-74 | Oral cavity and pharynx | 195 | 44.0 (31.1,56.0) | 153 | 45.4 (32.1,57.6) | 42 | 42.5 (29.7,54.3) |
| | 55-74 | Bladder | 179 | 44.7 (37.6,51.4) | 147 | 46.4 (38.9,53.3) | 32 | 42.8 (35.5,49.7) |
| | 55-74 | Stomach | 103 | 22.5 (16.7,28.3) | 74 | 23.9 (17.7,30.0) | 29 | 21.0 (15.4,26.5) |
| | 50-69 | Liver | 135 | 27.1 (14.2,39.8) | 92 | 28.7 (15.2,41.8) | 43 | 25.5 (13.4,37.9) |
| | 50-69 | Ovary | 85 | 3.8 (1.1,6.6) | | | 85 | 3.8 (1.1,6.6) |
| | 55-74 | Esophagus | 109 | 46.6 (40.7,52.2) | 89 | 48.4 (42.4,54.2) | 20 | 44.5 (38.4,50.3) |
| | 55-74 | Myeloid Leukemia | 74 | 12.7 (0.0,68.8) | 47 | 13.7 (0.0,70.9) | 27 | 11.6 (0.0,66.9) |
| | 55-74 | Cervix | 38 | 27.7 (11.6,47.2) | | | 38 | 27.7 (11.6,47.2) |
| | 55-74 | Larynx | 42 | 75.4 (66.2,83.8) | 37 | 76.9 (67.7,84.9) | 5 | 73.7 (63.9,82.7) |

Appendix 1 (continued)

| Age at Exposure | Age at Outcome | Cancer Site | Total Obs. Cases | Total PAR (95% CI) | Men Obs. Cases | Men PAR (95% CI) | Women Obs. Cases | Women PAR (95% CI) |
|-----------------|----------------|-------------------------|------------------|--------------------|------------------|------------------|------------------|--------------------|
| 45-64 | 55-74 | Lung | 1132 | 77.6 (72.6,81.9) | 558 | 78.7 (73.8,83.0) | 574 | 76.3 (71.0,80.9) |
| | 55-74 | Colorectum | 982 | 11.9 (8.7,15.1) | 605 | 12.8 (9.4,16.2) | 377 | 11.0 (8.1,14.1) |
| | 55-74 | Kidney | 269 | 20.3 (15.3,25.2) | 188 | 21.4 (16.2,26.5) | 81 | 19.1 (14.5,23.8) |
| | 50-69 | Pancreas | 179 | 21.4 (16.0,26.8) | 83 | 22.5 (16.7,28.1) | 96 | 20.3 (15.1,25.4) |
| | 55-74 | Oral cavity and pharynx | 195 | 44.0 (31.1,56.0) | 153 | 45.4 (32.1,57.6) | 42 | 42.5 (29.7,54.3) |
| | 55-74 | Bladder | 179 | 44.7 (37.6,51.4) | 147 | 46.4 (38.9,53.3) | 32 | 42.8 (35.5,49.7) |
| | 55-74 | Stomach | 103 | 22.5 (16.7,28.3) | 74 | 23.9 (17.7,30.0) | 29 | 21.0 (15.4,26.5) |
| | 50-69 | Liver | 135 | 27.1 (14.2,39.8) | 92 | 28.7 (15.2,41.8) | 43 | 25.5 (13.4,37.9) |
| | 50-69 | Ovary | 85 | 3.8 (1.1,6.6) | | | 85 | 3.8 (1.1,6.6) |
| | 55-74 | Esophagus | 109 | 46.6 (40.7,52.2) | 89 | 48.4 (42.4,54.2) | 20 | 44.5 (38.4,50.3) |
| | 55-74 | Myeloid Leukemia | 74 | 12.7 (0.0,68.8) | 47 | 13.7 (0.0,70.9) | 27 | 11.6 (0.0,66.9) |
| | 55-74 | Cervix | 38 | 27.7 (11.6,47.2) | | | 38 | 27.7 (11.6,47.2) |
| | 55-74 | Larynx | 42 | 75.4 (66.2,83.8) | 37 | 76.9 (67.7,84.9) | 5 | 73.7 (63.9,82.7) |
| | ≥65 | ≥ 75 | Lung | 672 | 71.5 (64.8,77.3) | 331 | 75.2 (68.5,80.8) | 341 |
| ≥ 75 | | Colorectum | 664 | 10.7 (7.7,13.7) | 338 | 13.1 (9.5,16.7) | 326 | 8.6 (6.2,11.2) |
| ≥ 75 | | Kidney | 87 | 16.5 (11.7,21.1) | 54 | 19.4 (13.7,25.0) | 33 | 13.9 (9.9,17.9) |
| ≥ 75 | | Pancreas | 150 | 15.6 (9.6,21.3) | 65 | 17.9 (10.8,24.9) | 85 | 13.5 (8.8,18.6) |
| ≥ 75 | | Oral cavity and pharynx | 66 | 29.8 (13.6,45.6) | 34 | 32.0 (10.9,50.2) | 32 | 28.0 (14.1,41.8) |
| ≥ 75 | | Bladder | 156 | 37.7 (30.5,44.6) | 117 | 42.3 (34.6,49.4) | 39 | 33.2 (26.6,40.0) |
| ≥ 75 | | Stomach | 127 | 19.3 (13.7,24.7) | 77 | 22.0 (15.6,28.4) | 50 | 16.8 (11.7,22.0) |
| ≥ 75 | | Liver | 52 | 24.7 (9.2,39.3) | 34 | 29.1 (10.1,45.8) | 18 | 20.6 (8.3,33.5) |
| ≥ 75 | | Ovary | 48 | 3.0 (0.7,5.4) | | | 48 | 3.0 (0.7,5.4) |
| ≥ 75 | | Esophagus | 44 | 42.2 (36.4,47.8) | 37 | 47.6 (41.3,53.5) | 7 | 36.9 (31.0,42.6) |
| ≥ 75 | | Myeloid Leukemia | 55 | 13.2 (0.0,71.6) | 27 | 16.5 (0.0,76.9) | 28 | 10.4 (0.0,64.7) |
| ≥ 75 | | Cervix | 15 | 18.3 (9.5,30.4) | | | 15 | 18.3 (9.5,30.4) |
| ≥ 75 | | Larynx | 28 | 72.4 (63.8,80.0) | 21 | 75.8 (68.0,82.7) | 7 | 68.7 (59.2,77.7) |

Abbreviations: CI = confidence interval, Obs. = Total number of observed cases per age-sex group, PAR = Population attributable Risk

*Cell counts of less than 5 for observed cases were suppressed to comply with confidentiality requirements