Rates of Hypertension in Asthma Individuals

| Sex | Age Group | 1996 | 1997 | 1998 | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019* | 2020* |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Rates of Hypertension in Asthma Individuals (Per 100 Asthma Prevalence) | | | | | | | | | | | | | | | | | | | | | | | | |
| All | All | 22.00 | 23.17 | 24.23 | 25.34 | 26.45 | 27.42 | 28.19 | 28.91 | 29.49 | 30.02 | 30.37 | 30.56 | 30.66 | 30.62 | 30.40 | 30.12 | 29.79 | 29.53 | 29.29 | 29.06 | 28.82 | 28.66 | 28.52 | 28.37 | 28.02 |
| | 20-29 | 1.80 | 1.83 | 1.87 | 1.90 | 1.95 | 1.96 | 1.98 | 2.05 | 2.08 | 2.06 | 2.02 | 1.94 | 1.88 | 1.81 | 1.69 | 1.61 | 1.50 | 1.44 | 1.39 | 1.37 | 1.34 | 1.32 | 1.31 | 1.31 | 1.28 |
| | 30-39 | 5.90 | 6.26 | 6.55 | 6.94 | 7.37 | 7.58 | 7.96 | 8.22 | 8.37 | 8.52 | 8.61 | 8.68 | 8.62 | 8.56 | 8.42 | 8.16 | 7.89 | 7.62 | 7.33 | 7.04 | 6.74 | 6.45 | 6.20 | 5.90 | 5.46 |
| | 40-49 | 16.34 | 16.82 | 17.27 | 17.70 | 18.35 | 18.87 | 19.22 | 19.71 | 20.22 | 20.57 | 20.87 | 21.18 | 21.38 | 21.59 | 21.53 | 21.32 | 21.22 | 20.96 | 20.56 | 20.24 | 19.87 | 19.54 | 19.23 | 18.76 | 18.05 |
| | 50-59 | 32.36 | 33.62 | 34.83 | 36.09 | 37.45 | 38.58 | 39.52 | 40.29 | 40.76 | 41.40 | 41.77 | 41.78 | 41.61 | 41.38 | 41.02 | 40.65 | 39.92 | 39.40 | 38.89 | 38.37 | 37.88 | 37.58 | 37.24 | 36.90 | 36.25 |
| | 60-69 | 45.56 | 47.79 | 49.78 | 52.13 | 54.35 | 56.44 | 58.10 | 59.37 | 60.62 | 61.75 | 62.54 | 62.83 | 63.06 | 63.24 | 63.15 | 62.94 | 62.52 | 61.95 | 61.30 | 60.73 | 60.10 | 59.24 | 58.40 | 57.51 | 56.39 |
| | 70+ | 55.02 | 58.37 | 61.46 | 64.49 | 67.39 | 69.84 | 71.85 | 73.81 | 75.57 | 77.27 | 78.66 | 79.75 | 80.79 | 81.49 | 82.06 | 82.45 | 82.77 | 82.92 | 82.92 | 82.65 | 82.37 | 81.94 | 81.50 | 81.05 | 80.42 |
| Female | All | 22.55 | 23.73 | 24.84 | 26.01 | 27.20 | 28.26 | 29.17 | 30.03 | 30.75 | 31.36 | 31.81 | 32.11 | 32.34 | 32.43 | 32.35 | 32.19 | 31.99 | 31.82 | 31.67 | 31.52 | 31.34 | 31.22 | 31.11 | 31.00 | 30.69 |
| | 20-29 | 1.75 | 1.79 | 1.85 | 1.88 | 1.91 | 1.98 | 2.04 | 2.16 | 2.24 | 2.21 | 2.15 | 2.07 | 1.94 | 1.84 | 1.66 | 1.56 | 1.43 | 1.34 | 1.27 | 1.23 | 1.21 | 1.16 | 1.13 | 1.14 | 1.11 |
| | 30-39 | 5.44 | 5.84 | 6.10 | 6.44 | 6.88 | 7.10 | 7.55 | 7.87 | 7.97 | 8.07 | 8.15 | 8.21 | 8.17 | 8.17 | 8.07 | 7.88 | 7.67 | 7.40 | 7.14 | 6.87 | 6.56 | 6.24 | 5.94 | 5.57 | 5.11 |
| | 40-49 | 16.34 | 16.77 | 17.21 | 17.58 | 18.20 | 18.65 | 19.03 | 19.41 | 19.89 | 20.15 | 20.29 | 20.43 | 20.55 | 20.68 | 20.54 | 20.25 | 20.06 | 19.79 | 19.32 | 18.95 | 18.63 | 18.30 | 18.03 | 17.60 | 16.93 |
| | 50-59 | 33.24 | 34.46 | 35.68 | 36.93 | 38.38 | 39.57 | 40.28 | 40.99 | 41.43 | 41.91 | 42.21 | 42.05 | 41.70 | 41.29 | 40.82 | 40.26 | 39.33 | 38.56 | 37.92 | 37.19 | 36.50 | 36.02 | 35.52 | 35.12 | 34.42 |
| | 60-69 | 47.78 | 49.82 | 51.64 | 54.00 | 56.13 | 58.08 | 59.69 | 61.05 | 62.03 | 63.00 | 63.56 | 63.63 | 63.72 | 63.77 | 63.52 | 63.06 | 62.39 | 61.67 | 60.87 | 60.20 | 59.43 | 58.34 | 57.35 | 56.19 | 54.91 |
| | 70+ | 58.91 | 61.95 | 64.95 | 67.90 | 70.51 | 72.72 | 74.67 | 76.36 | 78.05 | 79.46 | 80.62 | 81.54 | 82.44 | 82.99 | 83.44 | 83.72 | 83.94 | 83.98 | 83.84 | 83.51 | 83.10 | 82.54 | 81.93 | 81.39 | 80.65 |
| Male | All | 21.11 | 22.27 | 23.25 | 24.26 | 25.25 | 26.07 | 26.65 | 27.16 | 27.54 | 27.97 | 28.21 | 28.27 | 28.22 | 28.02 | 27.65 | 27.25 | 26.81 | 26.47 | 26.16 | 25.87 | 25.61 | 25.44 | 25.30 | 25.14 | 24.77 |
| | 20-29 | 1.89 | 1.91 | 1.92 | 1.93 | 2.01 | 1.93 | 1.91 | 1.91 | 1.87 | 1.88 | 1.86 | 1.82 | 1.81 | 1.78 | 1.72 | 1.66 | 1.56 | 1.53 | 1.49 | 1.47 | 1.45 | 1.45 | 1.45 | 1.44 | 1.41 |
| | 30-39 | 6.65 | 6.93 | 7.27 | 7.72 | 8.14 | 8.34 | 8.62 | 8.79 | 9.00 | 9.22 | 9.32 | 9.41 | 9.32 | 9.16 | 8.95 | 8.57 | 8.19 | 7.92 | 7.57 | 7.24 | 6.97 | 6.69 | 6.47 | 6.24 | 5.81 |
| | 40-49 | 16.33 | 16.90 | 17.37 | 17.91 | 18.61 | 19.23 | 19.55 | 20.21 | 20.76 | 21.23 | 21.79 | 22.37 | 22.69 | 23.02 | 23.10 | 23.00 | 23.04 | 22.79 | 22.51 | 22.25 | 21.82 | 21.47 | 21.10 | 20.54 | 19.75 |
| | 50-59 | 30.86 | 32.17 | 33.36 | 34.62 | 35.81 | 36.83 | 38.16 | 39.04 | 39.59 | 40.49 | 41.02 | 41.31 | 41.45 | 41.53 | 41.37 | 41.30 | 40.88 | 40.74 | 40.42 | 40.23 | 40.05 | 40.02 | 39.91 | 39.65 | 39.08 |
| | 60-69 | 42.39 | 44.84 | 47.01 | 49.29 | 51.61 | 53.89 | 55.57 | 56.69 | 58.32 | 59.71 | 60.86 | 61.51 | 61.95 | 62.34 | 62.53 | 62.74 | 62.76 | 62.44 | 62.03 | 61.63 | 61.23 | 60.75 | 60.15 | 59.69 | 58.81 |
| | 70+ | 49.12 | 52.85 | 56.03 | 59.14 | 62.43 | 65.22 | 67.30 | 69.65 | 71.49 | 73.65 | 75.42 | 76.75 | 78.01 | 78.96 | 79.69 | 80.29 | 80.76 | 81.08 | 81.34 | 81.17 | 81.10 | 80.89 | 80.74 | 80.45 | 80.01 |
| | | Rates of Hypertension in Asthma Individuals (Per 100 Asthma Prevalence) | | | | | | | | | | | | | | | | | | | | | | | | |
| | | 1996 | 1997 | 1998 | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019* | 2020* |
| | **Deprivation Quintile**[†] | | | | | | | | | | | | | | | | | | | | | | | | | |
| | **Q1** (least marginalized) | 19.85 | 20.72 | 21.70 | 22.69 | 23.52 | 24.24 | 25.09 | 25.72 | 26.11 | 26.37 | 26.51 | 26.66 | 27.27 | 27.10 | 26.89 | 26.60 | 26.41 | 25.36 | 25.11 | 24.91 | 24.81 | 24.78 | 24.76 | 24.49 | 24.62 |
| | **Q2** | 22.04 | 23.08 | 24.21 | 25.44 | 26.50 | 27.35 | 28.14 | 28.17 | 28.79 | 29.21 | 29.39 | 29.53 | 28.98 | 28.60 | 28.25 | 27.91 | 27.53 | 27.83 | 27.64 | 27.55 | 27.52 | 27.44 | 27.32 | 26.93 | 27.28 |
| | **Q3** | 23.38 | 24.58 | 25.77 | 26.83 | 27.85 | 28.62 | 29.36 | 29.99 | 30.53 | 31.01 | 31.25 | 31.35 | 30.43 | 30.11 | 29.78 | 29.35 | 29.06 | 29.99 | 29.76 | 29.46 | 29.30 | 29.10 | 28.91 | 28.59 | 28.97 |
| | **Q4** | 24.76 | 25.85 | 27.00 | 28.17 | 29.24 | 30.13 | 30.84 | 31.38 | 31.96 | 32.29 | 32.56 | 32.71 | 32.55 | 32.41 | 32.15 | 31.84 | 31.61 | 31.55 | 31.29 | 31.10 | 30.89 | 30.70 | 30.54 | 30.13 | 30.45 |
| | **Q5** (most marginalized) | 24.65 | 25.75 | 26.89 | 28.06 | 29.02 | 29.90 | 30.58 | 31.58 | 32.25 | 32.74 | 33.02 | 33.15 | 32.81 | 32.73 | 32.51 | 32.26 | 32.07 | 31.85 | 31.71 | 31.41 | 31.20 | 31.03 | 30.85 | 30.56 | 30.87 |
| | **Income Quintile** | | | | | | | | | | | | | | | | | | | | | | | | | |
| | **Q1** (lowest) | 23.52 | 24.59 | 25.59 | 27.08 | 28.33 | 29.27 | 30.22 | 30.98 | 31.19 | 31.83 | 32.28 | 32.56 | 32.73 | 32.89 | 32.72 | 32.44 | 32.12 | 31.86 | 32.25 | 32.09 | 31.82 | 31.64 | 31.50 | 31.29 | 30.98 |
| | **Q2** | 23.15 | 24.36 | 25.45 | 26.86 | 27.91 | 29.06 | 29.86 | 30.60 | 30.81 | 31.36 | 31.78 | 31.92 | 32.08 | 32.07 | 31.88 | 31.60 | 31.27 | 31.02 | 31.13 | 30.90 | 30.59 | 30.27 | 30.07 | 29.94 | 29.57 |
| | **Q3** | 22.23 | 23.47 | 24.56 | 25.26 | 26.47 | 27.41 | 28.14 | 28.80 | 29.39 | 29.99 | 30.30 | 30.60 | 30.75 | 30.56 | 30.39 | 30.17 | 29.82 | 29.58 | 29.28 | 29.06 | 28.85 | 28.75 | 28.56 | 28.40 | 28.06 |
| | **Q4** | 20.52 | 21.85 | 22.87 | 23.96 | 25.00 | 25.88 | 26.66 | 27.48 | 28.43 | 28.89 | 29.23 | 29.33 | 29.39 | 29.45 | 29.15 | 28.91 | 28.61 | 28.36 | 27.47 | 27.22 | 27.01 | 26.89 | 26.83 | 26.68 | 26.37 |
| | **Q5** (highest) | 20.10 | 21.18 | 22.33 | 22.94 | 23.99 | 24.95 | 25.69 | 26.40 | 27.19 | 27.65 | 27.97 | 28.14 | 28.19 | 27.99 | 27.76 | 27.44 | 27.13 | 26.86 | 25.93 | 25.66 | 25.52 | 25.48 | 25.42 | 25.37 | 25.04 |
| | **Rurality**[‡] | | | | | | | | | | | | | | | | | | | | | | | | | |
| | **Rural** | 24.11 | 25.39 | 26.49 | 27.58 | 28.82 | 30.00 | 30.86 | 31.40 | 32.09 | 32.61 | 33.02 | 33.18 | 33.29 | 33.04 | 32.59 | 32.25 | 31.77 | 31.44 | 31.12 | 30.78 | 30.38 | 30.08 | 29.75 | 29.38 | 28.83 |
| | **Urban** | 21.68 | 22.85 | 23.90 | 25.04 | 26.13 | 27.06 | 27.83 | 28.57 | 29.16 | 29.69 | 30.04 | 30.23 | 30.34 | 30.32 | 30.13 | 29.86 | 29.55 | 29.30 | 29.10 | 28.87 | 28.65 | 28.51 | 28.39 | 28.26 | 27.93 |
| | **Local Health Integration Network** | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 1. Erie St. Clair | 24.01 | 24.97 | 25.95 | 26.86 | 27.74 | 28.95 | 30.10 | 31.11 | 31.79 | 32.32 | 32.74 | 33.12 | 33.36 | 33.42 | 33.17 | 33.02 | 32.75 | 32.49 | 32.20 | 31.88 | 31.60 | 31.41 | 31.20 | 31.00 | 30.53 |
| | 2. South West | 22.70 | 23.85 | 24.94 | 25.95 | 27.09 | 28.00 | 28.81 | 29.36 | 29.66 | 30.23 | 30.46 | 30.35 | 30.31 | 30.12 | 29.68 | 29.19 | 28.75 | 28.44 | 28.26 | 28.04 | 27.84 | 27.86 | 27.57 | 27.39 | 27.00 |
| | 3. Waterloo Wellington | 19.34 | 20.13 | 20.84 | 21.85 | 22.78 | 23.40 | 23.92 | 24.20 | 24.51 | 24.74 | 24.95 | 25.00 | 24.96 | 24.70 | 24.45 | 24.26 | 23.99 | 23.66 | 23.45 | 23.19 | 22.99 | 22.71 | 22.65 | 22.57 | 22.30 |
| | 4. Hamilton Niagara Haldimand Brant | 22.42 | 23.77 | 25.14 | 26.59 | 27.76 | 28.70 | 29.43 | 30.01 | 30.57 | 31.19 | 31.49 | 31.63 | 31.51 | 31.23 | 30.92 | 30.62 | 30.15 | 29.92 | 29.68 | 29.52 | 29.28 | 29.08 | 28.91 | 28.74 | 28.26 |
| | 5. Central West | 20.44 | 21.57 | 22.68 | 23.83 | 25.14 | 26.37 | 27.34 | 28.10 | 28.89 | 29.67 | 30.11 | 30.62 | 30.95 | 31.33 | 31.44 | 31.49 | 31.50 | 31.39 | 31.21 | 31.16 | 31.06 | 31.05 | 31.09 | 31.15 | 31.06 |
| | 6. Mississauga Halton | 20.99 | 22.07 | 23.03 | 24.14 | 25.32 | 26.41 | 27.26 | 28.37 | 28.94 | 29.53 | 29.99 | 30.18 | 30.27 | 30.14 | 30.07 | 29.87 | 29.55 | 29.32 | 29.11 | 28.94 | 28.87 | 28.81 | 28.88 | 28.89 | 28.74 |
| | 7. Toronto Central | 23.07 | 24.13 | 24.91 | 25.88 | 26.77 | 27.51 | 28.04 | 28.49 | 28.87 | 29.28 | 29.39 | 29.37 | 29.43 | 29.09 | 28.80 | 28.30 | 27.69 | 27.15 | 26.63 | 26.16 | 25.67 | 25.23 | 24.92 | 24.66 | 24.36 |
| | 8. Central | 22.98 | 24.22 | 25.39 | 26.55 | 27.80 | 28.54 | 29.26 | 30.02 | 30.60 | 31.10 | 31.51 | 31.68 | 31.83 | 31.92 | 31.67 | 31.43 | 31.30 | 31.13 | 30.99 | 30.79 | 30.58 | 30.55 | 30.42 | 30.34 | 30.01 |
| | 9. Central East | 21.97 | 23.40 | 24.48 | 25.65 | 26.82 | 27.90 | 28.80 | 29.76 | 30.49 | 31.12 | 31.63 | 32.12 | 32.39 | 32.63 | 32.47 | 32.21 | 31.95 | 31.73 | 31.51 | 31.32 | 31.14 | 30.99 | 30.89 | 30.69 | 30.24 |
| | 10. South East | 22.96 | 24.35 | 25.45 | 26.68 | 27.63 | 28.46 | 29.13 | 29.93 | 30.40 | 30.74 | 31.17 | 31.21 | 31.22 | 31.10 | 30.75 | 30.48 | 29.99 | 29.67 | 29.60 | 29.42 | 29.28 | 29.12 | 29.09 | 28.96 | 28.52 |
| | 11. Champlain | 19.80 | 20.89 | 21.85 | 22.83 | 23.76 | 24.70 | 25.42 | 26.22 | 26.90 | 27.40 | 27.78 | 27.89 | 28.09 | 28.03 | 27.85 | 27.58 | 27.32 | 27.10 | 26.86 | 26.62 | 26.37 | 26.29 | 26.15 | 25.96 | 25.62 |
| | 12. North Simcoe Muskoka | 21.70 | 22.91 | 23.87 | 25.20 | 26.22 | 27.14 | 27.98 | 28.26 | 28.84 | 29.42 | 29.68 | 29.81 | 29.83 | 29.76 | 29.64 | 29.35 | 28.92 | 28.88 | 28.52 | 28.26 | 28.07 | 27.83 | 27.58 | 27.22 | 26.78 |
| | 13. North East | 23.63 | 24.93 | 26.36 | 27.33 | 28.85 | 30.43 | 31.27 | 31.90 | 32.58 | 32.94 | 33.15 | 33.38 | 33.40 | 33.35 | 32.97 | 32.60 | 32.23 | 31.88 | 31.63 | 31.20 | 30.75 | 30.37 | 30.13 | 29.85 | 29.40 |
| | 14. North West | 20.61 | 21.42 | 22.88 | 24.02 | 25.41 | 26.35 | 27.17 | 27.67 | 28.53 | 29.25 | 29.79 | 29.99 | 30.01 | 29.92 | 29.56 | 29.03 | 28.24 | 27.70 | 27.41 | 27.01 | 26.71 | 26.57 | 26.26 | 26.14 | 25.73 |

*Reporting period is from April 1996 to March 2021. Data for 2019 and 2020 may be incomplete due to the 2-year algorithm to identify asthma, and numbers are subject to change.

†Ontario Marginalization Index expressed in quintiles used as a proxy measure of socioeconomic status.

‡Rural communities defined as those with fewer than 10,000 people.

Source: This table uses statistics reported by the Ontario Asthma Surveillance Information System (OASIS) and data provided by ICES, Ontario.