



Response to Data Request #DOH-093863146606

Burden of Disease (BOD) is measured by **Disability Adjusted Life Years (DALYs)**. DALYs for a disease or health condition are the sum of the years of life lost due to premature mortality and the years lived with a disability due to prevalent cases of the disease or health condition in a population. Ranking the causes of DALYs in a population shows the health problems that cause the most suffering in a society, whether it is by killing people when they are very young, by shortening by a few years the lives of many people, or by causing daily, long-term suffering for many people. It is expressed per 100,000 populations.

**Table 1. Burden of Diabetes Mellitus
Global, 2019**

| Metric | Number | Rate* |
|------------|----------------|----------|
| DALYs | 70,880,154.68 | 916.06 |
| Deaths | 1,551,170.10 | 20.05 |
| Incidence | 22,239,396.04 | 287.42 |
| Prevalence | 459,875,370.94 | 5,943.49 |

*Rate per 100,000 population

Globally, **Diabetes Mellitus** ranked 8th among 169 DALY causes (Level 3) with 70,880,154.68 number of cases and DALY rate of 916.06 per 100,000 population. It accounted for 2.79% of the total burden of disease.

**Table 2. Burden of Diabetes Mellitus
Philippines, 2019**

| Metric | Number | Rate* |
|------------|--------------|----------|
| DALYs | 1,055,434.30 | 941.15 |
| Deaths | 27,679.99 | 24.68 |
| Incidence | 238,509.40 | 212.68 |
| Prevalence | 3,759,546.20 | 3,352.46 |

*Rate per 100,000 population

In the Philippines, **Diabetes Mellitus** ranked 7th among 169 DALY causes (Level 3) with 1,055,434.30 number of cases and DALY rate of 941.15 per 100,000 population. It accounted for 3.23% of the total burden of disease.



Republic of the Philippines
Department of Health
EPIDEMIOLOGY BUREAU



**Table 3. Prevalence of Type 1 Diabetes Mellitus
Global, 2015-2019**

| Metric | 2015 | 2016 | 2017 | 2018 | 2019 |
|--------|---------------|---------------|---------------|---------------|---------------|
| Number | 19,454,438.74 | 19,962,460.25 | 20,541,337.93 | 21,206,548.59 | 21,968,798.80 |
| Rate | 262.55 | 266.36 | 271.07 | 276.90 | 283.93 |

**Table 4. Prevalence of Type 1 Diabetes Mellitus By Sex
Global, 2015-2019**

| Metric | 2015 | | 2016 | | 2017 | | 2018 | | 2019 | |
|--------|--------------|--------------|---------------|--------------|---------------|---------------|---------------|---------------|---------------|---------------|
| | Male | Female | Male | Female | Male | Female | Male | Female | Male | Female |
| Number | 9,910,241.40 | 9,544,197.34 | 10,187,398.93 | 9,775,061.32 | 10,511,714.58 | 10,029,623.35 | 10,877,827.45 | 10,328,721.14 | 11,299,031.93 | 10,669,766.87 |
| Rate | 266.45 | 258.61 | 270.86 | 261.83 | 276.45 | 265.64 | 283.12 | 270.64 | 291.14 | 276.67 |

**Table 5. Prevalence of Type 2 Diabetes Mellitus
Global, 2015-2019**

| Metric | 2015 | 2016 | 2017 | 2018 | 2019 |
|--------|----------------|----------------|----------------|----------------|----------------|
| Number | 381,998,229.14 | 392,892,227.55 | 403,813,351.09 | 418,728,293.43 | 437,906,572.14 |
| Rate | 5,155.21 | 5,242.36 | 5,328.75 | 5,467.45 | 5,659.56 |

Source: Global Burden of Disease Collaborative Network. Global Burden of Disease Study 2019 Results. Seattle, United States: Institute for Health Metrics and Evaluation (IHME), 2020. Available from <https://vizhub.healthdata.org/gbd-results/>



Republic of the Philippines
Department of Health
EPIDEMIOLOGY BUREAU



**Table 6. Prevalence of Type 2 Diabetes Mellitus By Sex
Global, 2015-2019**

| Metric | 2015 | | 2016 | | 2017 | | 2018 | | 2019 | |
|--------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| | Male | Female | Male | Female | Male | Female | Male | Female | Male | Female |
| Number | 197,584,510.85 | 184,413,718.28 | 203,154,501.45 | 189,737,726.10 | 208,619,830.17 | 195,193,520.92 | 216,371,664.29 | 202,356,629.15 | 226,572,788.05 | 211,333,784.09 |
| Rate | 5,312.38 | 4,996.82 | 5,401.36 | 5,082.18 | 5,486.53 | 5,169.86 | 5,631.60 | 5,302.20 | 5,838.04 | 5,479.95 |

**Table 7. Prevalence of Type 1 Diabetes Mellitus
Philippines, 2015-2019**

| Metric | 2015 | 2016 | 2017 | 2018 | 2019 |
|--------|-----------|-----------|-----------|------------|------------|
| Number | 93,139.99 | 95,997.13 | 98,837.79 | 101,379.95 | 103,941.39 |
| Rate | 88.58 | 89.81 | 90.98 | 91.84 | 92.69 |

**Table 8. Prevalence of Type 1 Diabetes Mellitus By Sex
Philippines, 2015-2019**

| Metric | 2015 | | 2016 | | 2017 | | 2018 | | 2019 | |
|--------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| | Male | Female | Male | Female | Male | Female | Male | Female | Male | Female |
| Number | 48,089.72 | 45,050.27 | 49,794.90 | 46,202.24 | 51,464.77 | 47,373.02 | 52,729.29 | 48,650.66 | 53,878.00 | 50,063.38 |
| Rate | 90.25 | 86.86 | 91.92 | 87.64 | 93.46 | 88.43 | 94.23 | 89.39 | 94.76 | 90.56 |

Source: Global Burden of Disease Collaborative Network. Global Burden of Disease Study 2019 Results. Seattle, United States: Institute for Health Metrics and Evaluation (IHME), 2020. Available from <https://vizhub.healthdata.org/gbd-results/>



Republic of the Philippines
Department of Health
EPIDEMIOLOGY BUREAU



**Table 9. Prevalence of Type 2 Diabetes Mellitus
Philippines, 2015-2019**

| Metric | 2015 | 2016 | 2017 | 2018 | 2019 |
|--------|--------------|--------------|--------------|--------------|--------------|
| Number | 2,900,050.31 | 3,020,317.59 | 3,165,240.97 | 3,373,384.83 | 3,655,604.81 |
| Rate | 2,757.97 | 2,825.53 | 2,913.61 | 3,056.09 | 3,259.78 |

**Table 10. Prevalence of Type 2 Diabetes Mellitus By Sex
Philippines, 2015-2019**

| Metric | 2015 | | 2016 | | 2017 | | 2018 | | 2019 | |
|--------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| | Male | Female | Male | Female | Male | Female | Male | Female | Male | Female |
| Number | 1,236,217.80 | 1,663,832.51 | 1,299,747.29 | 1,720,570.30 | 1,379,304.84 | 1,785,936.13 | 1,475,910.33 | 1,897,474.51 | 1,596,158.50 | 2,059,446.31 |
| Rate | 2,320.07 | 3,207.81 | 2,399.18 | 3,263.65 | 2,504.86 | 3,333.76 | 2,637.54 | 3,486.44 | 2,807.26 | 3,725.18 |

Source: Global Burden of Disease Collaborative Network. Global Burden of Disease Study 2019 Results. Seattle, United States: Institute for Health Metrics and Evaluation (IHME), 2020. Available from <https://vizhub.healthdata.org/gbd-results/>