

**Supplement Table 2. Estimated age-specific and sex-specific number and population prevalence of diabetic retinopathy (A) and vision impairment caused by diabetic retinopathy (B) in adult population in Taiwan, 2019.**

**(A) Diabetic retinopathy**

|           | DM        |                            | PDR                        |                            |  | DME                     |                            |                                |
|-----------|-----------|----------------------------|----------------------------|----------------------------|--|-------------------------|----------------------------|--------------------------------|
|           | number    | Population prevalence (%)* | number                     | Population prevalence* (%) | Proportion among diabetics (%)         | number                  | Population prevalence* (%) | Proportion among diabetics (%) |
|           |           |                            |                            |                            |  |                         |                            |                                |
|           |           |                            |                            |                            | point estimate (95% credible interval) |                         |                            |                                |
| Age 20-39 | 67,412    | 0.96                       | 2,168<br>(1,800, 2,639)    | 0.31 (0.26, 0.38)          | 3.22 (2.67, 3.91)                      | 942<br>(678, 1,308)     | 0.18 (0.12, 0.28)          | 1.40 (1.01, 1.94)              |
| Age 40-54 | 346,159   | 6.22                       | 9,294<br>(8,157, 10,647)   | 1.67 (1.47, 1.91)          | 2.68 (2.36, 3.08)                      | 2,588<br>(1,975, 3,452) | 0.55 (0.37, 0.83)          | 0.75 (0.57, 0.99)              |
| Age 55-69 | 907,534   | 18.66                      | 23,317<br>(20,773, 26,123) | 4.79 (4.27, 5.37)          | 2.57 (2.29, 2.88)                      | 3,703<br>(2,695, 5,021) | 0.75 (0.49, 1.11)          | 0.41 (0.30, 0.55)              |
| Age ≥70   | 679,169   | 30.49                      | 13,524<br>(11,453, 15,932) | 6.07 (5.14, 7.15)          | 1.99 (1.69, 2.35)                      | 1,076<br>(529, 1,961)   | 0.78 (0.34, 1.55)          | 0.16 (0.08, 0.29)              |
| Male      | 1,038,345 | 9.41                       | 25,464<br>(23,027, 28,209) | 2.32 (1.92, 2.80)          | 2.45 (2.22, 2.72)                      | 4,804<br>(3,742, 6,141) | 0.44 (0.28, 0.71)          | 0.46 (0.36, 0.59)              |
| Female    | 961,929   | 7.83                       | 22,871<br>(20,351, 25,777) | 1.85 (1.52, 2.27)          | 2.38 (2.12, 2.68)                      | 3,567<br>(2,665, 4,824) | 0.29 (0.18, 0.48)          | 0.37 (0.28, 0.50)              |

**(B) vision impairment caused by diabetic retinopathy**

|                  | Mild                                   |                            |                                | Moderate             |                            |                                | Severe              |                            |                                | Blindness           |                            |                                |
|------------------|--|----------------------------|--------------------------------|----------------------|----------------------------|--------------------------------|---------------------|----------------------------|--------------------------------|---------------------|----------------------------|--------------------------------|
|                  | number                                 | Population prevalence* (%) | Proportion among diabetics (%) | number               | Population prevalence* (%) | Proportion among diabetics (%) | number              | Population prevalence* (%) | Proportion among diabetics (%) | number              | Population prevalence* (%) | Proportion among diabetics (%) |
|                  | point estimate (95% credible interval) |                            |                                |                      |                            |                                |                     |                            |                                |                     |                            |                                |
| <b>Age 20-39</b> | 415<br>(274, 604)                      | 0.06<br>(0.04, 0.09)       | 0.62<br>(0.41, 0.90)           | 382<br>(249, 564)    | 0.05<br>(0.04, 0.08)       | 0.57<br>(0.37, 0.84)           | 96<br>(41, 202)     | 0.01<br>(0.006, 0.03)      | 0.14<br>(0.06, 0.30)           | 116<br>(56, 222)    | 0.02<br>(0.008, 0.03)      | 0.17<br>(0.08, 0.33)           |
| <b>Age 40-54</b> | 2024<br>(1456, 2798)                   | 0.36<br>(0.26, 0.50)       | 0.58<br>(0.42, 0.81)           | 1729<br>(1182, 2457) | 0.31<br>(0.21, 0.44)       | 0.5<br>(0.34, 0.71)            | 360<br>(166, 715)   | 0.06<br>(0.03, 0.13)       | 0.10<br>(0.05, 0.21)           | 495<br>(276, 879)   | 0.09<br>(0.05, 0.16)       | 0.14<br>(0.08, 0.25)           |
| <b>Age 55-69</b> | 6346<br>(4952, 8111)                   | 1.30<br>(1.02, 1.67)       | 0.7<br>(0.55, 0.89)            | 6179<br>(4741, 7964) | 1.27<br>(0.97, 1.64)       | 0.68<br>(0.52, 0.88)           | 934<br>(492, 1681)  | 0.19<br>(0.10, 0.35)       | 0.1<br>(0.05, 0.19)            | 693<br>(347, 1334)  | 0.14<br>(0.07, 0.27)       | 0.08<br>(0.04, 0.15)           |
| <b>Age ≥70</b>   | 4712<br>(3495, 6207)                   | 2.12<br>(1.57, 2.79)       | 0.69<br>(0.51, 0.91)           | 3445<br>(2459, 4700) | 1.55<br>(1.10, 2.11)       | 0.51<br>(0.36, 0.69)           | 1270<br>(743, 2041) | 0.57<br>(0.33, 0.92)       | 0.19<br>(0.11, 0.30)           | 737<br>(391, 1334)  | 0.33<br>(0.18, 0.60)       | 0.11<br>(0.06, 0.20)           |
| <b>Male</b>      | 5848<br>(4528, 7511)                   | 0.53<br>(0.34, 0.79)       | 0.56<br>(0.44, 0.72)           | 6112<br>(4744, 7757) | 0.55<br>(0.36, 0.82)       | 0.59<br>(0.46, 0.75)           | 1312<br>(767, 2121) | 0.12<br>(0.05, 0.22)       | 0.13<br>(0.07, 0.20)           | 1000<br>(595, 1665) | 0.09<br>(0.04, 0.18)       | 0.10<br>(0.06, 0.16)           |
| <b>Female</b>    | 7698<br>(6080, 9599)                   | 0.61<br>(0.42, 0.95)       | 0.8<br>(0.63, 1.00)            | 5673<br>(4257, 7415) | 0.44<br>(0.28, 0.73)       | 0.59<br>(0.44, 0.77)           | 1381<br>(822, 2265) | 0.11<br>(0.05, 0.22)       | 0.14<br>(0.09, 0.24)           | 1077<br>(615, 1842) | 0.08<br>(0.03, 0.18)       | 0.11<br>(0.06, 0.19)           |

\*The numbers of gender-specific prevalence were age-standardized.

DM, diabetes mellitus; PDR, proliferative diabetic retinopathy; DME, diabetic macular edema.