**Supplementary Table S1** Baseline characteristics of patients with and without glaucoma

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | |  | | | **Study population** | | | | | | | | | | | | | |  | | | **Total** | | | | **With glaucoma** | | | | | | **Without glaucoma** | | ***P*** | | **Total** | | **With trabeculectomy** | | **Without trabeculectomy** | | | **Variables** | | | **n** | | | **%** | **n** | **%** | **n** | **%** | **n** | **%** | **n** | **%** | | **Total** | | | 7,620 | | |  | 3,810 | 50.00 | 1,157 | 30.37 | 2,653 | 69.63 | 3,810 | 50.00 |  | | **Sex** | | |  | | |  |  |  |  |  |  |  |  |  | 0.999 | | Male | | | 3,882 | | | 50.94 | 1,941 | 50.94 | 610 | 52.72 | 1,331 | 50.17 | 1,941 | 50.94 |  | | Female | | | 3,738 | | | 49.06 | 1,869 | 49.06 | 547 | 47.28 | 1,322 | 49.83 | 1,869 | 49.06 |  | | **Age (years)** | | | 62.37 ± 16.08 | | | | 62.49 ± 15.80 | | 61.42 ± 16.64 | | 62.96 ± 15.40 | | 62.25 ± 16.35 | | 0.511 | | **Age group (years)** | | |  | | |  |  |  |  |  |  |  |  |  | 0.999 | | <19 | | | 242 | | | 3.18 | 121 | 3.18 | 50 | 4.32 | 71 | 2.68 | 121 | 3.18 |  | | 20-29 | | | 202 | | | 2.65 | 101 | 2.65 | 40 | 3.46 | 61 | 2.30 | 101 | 2.65 |  | | 30-39 | | | 304 | | | 3.99 | 152 | 3.99 | 38 | 3.28 | 114 | 4.30 | 152 | 3.99 |  | | 40-49 | | | 544 | | | 7.14 | 272 | 7.14 | 76 | 6.57 | 196 | 7.39 | 272 | 7.14 |  | | 50-59 | | | 1,152 | | | 15.12 | 576 | 15.12 | 187 | 16.16 | 389 | 14.66 | 576 | 15.12 |  | | ≧60 | | | 5,176 | | | 67.93 | 2,588 | 67.93 | 766 | 66.21 | 1,822 | 68.68 | 2,588 | 67.93 |  | | **Insured premium (New Taiwan $)** | | |  | | |  |  |  |  |  |  |  |  |  | 0.134 | | <18,000 | | | 7,512 | | | 98.58 | 3,760 | 98.69 | 1,135 | 98.10 | 2,625 | 98.94 | 3,752 | 98.48 |  | | 18,000-34,999 | | | 97 | | | 1.27 | 42 | 1.10 | 18 | 1.56 | 24 | 0.90 | 55 | 1.44 |  | | ≧35,000 | | | 11 | | | 0.14 | 8 | 0.21 | 4 | 0.35 | 4 | 0.15 | 3 | 0.08 |  | | **DM** | | |  | | |  |  |  |  |  |  |  |  |  | 0.002 | | Without | | | 6,080 | | | 79.79 | 2,985 | 78.35 | 1,036 | 89.54 | 1,949 | 73.46 | 3,095 | 81.23 |  | | With | | | 1,540 | | | 20.21 | 825 | 21.65 | 121 | 10.46 | 704 | 26.54 | 715 | 18.77 |  | | **Hyperlipidemia** | | |  | | |  |  |  |  |  |  |  |  |  | 0.682 | | Without | | | 7,468 | | | 98.01 | 3,737 | 98.08 | 1,156 | 99.91 | 2,581 | 97.29 | 3,731 | 97.93 |  | | With | | | 152 | | | 1.99 | 73 | 1.92 | 1 | 0.09 | 72 | 2.71 | 79 | 2.07 |  | | **HTN** | | |  | | |  |  |  |  |  |  |  |  |  | 0.027 | | Without | | | 5,931 | | | 77.83 | 2,925 | 76.77 | 1,049 | 90.67 | 1,876 | 70.71 | 3,006 | 78.90 |  | | With | | | 1,689 | | | 22.17 | 885 | 23.23 | 108 | 9.33 | 777 | 29.29 | 804 | 21.10 |  | | **CKD** | | |  | | |  |  |  |  |  |  |  |  |  | 0.970 | | Without | | | 6,847 | | | 89.86 | 3,424 | 89.87 | 1,151 | 99.48 | 2,273 | 85.68 | 3,423 | 89.84 |  | | With | | | 773 | | | 10.14 | 386 | 10.13 | 6 | 0.52 | 380 | 14.32 | 387 | 10.16 |  | | **CAD** | | |  | | |  |  |  |  |  |  |  |  |  | 0.041 | | Without | | | 6,872 | | | 90.18 | 3,463 | 90.89 | 1,152 | 99.57 | 2,311 | 87.11 | 3,409 | 89.48 |  | | With | | | 748 | | | 9.82 | 347 | 9.11 | 5 | 0.43 | 342 | 12.89 | 401 | 10.52 |  | | **CHF** | | |  | | |  |  |  |  |  |  |  |  |  | 0.008 | | Without | | | 7,130 | | | 93.57 | 3,594 | 94.33 | 1,156 | 99.91 | 2,438 | 91.90 | 3,536 | 92.81 |  | | With | | | 490 | | | 6.43 | 216 | 5.67 | 1 | 0.09 | 215 | 8.10 | 274 | 7.19 |  | | **Stroke** | | |  | | |  |  |  |  |  |  |  |  |  | 0.211 | | Without | | | 6,946 | | | 91.15 | 3,489 | 91.57 | 1,152 | 99.57 | 2,337 | 88.09 | 3,457 | 90.73 |  | | With | | | 674 | | | 8.85 | 321 | 8.43 | 5 | 0.43 | 316 | 11.91 | 353 | 9.27 |  | | **COPD** | | |  | | |  |  |  |  |  |  |  |  |  | 0.034 | | Without | | | 6,936 | | | 91.02 | 3,495 | 91.73 | 1,139 | 98.44 | 2,356 | 88.81 | 3,441 | 90.31 |  | | With | | | 684 | | | 8.98 | 315 | 8.27 | 18 | 1.56 | 297 | 11.19 | 369 | 9.69 |  | | **Chronic liver disease** | | |  | | |  |  |  |  |  |  |  |  |  | <0.001 | | Without | | | 7,231 | | | 94.90 | 3,666 | 96.22 | 1,156 | 99.91 | 2,510 | 94.61 | 3,565 | 93.57 |  | | With | | | 389 | | | 5.10 | 144 | 3.78 | 1 | 0.09 | 143 | 5.39 | 245 | 6.43 |  | | **Hyperthyroidism** | | |  | | |  |  |  |  |  |  |  |  |  | 0.307 | | Without | | | 7,597 | | | 99.70 | 3,796 | 99.63 | 1,157 | 100.00 | 2,639 | 99.47 | 3,801 | 99.76 |  | | With | | | 23 | | | 0.30 | 14 | 0.37 | 0 | 0.00 | 14 | 0.53 | 9 | 0.24 |  | | **Hypothyroidism** | | |  | | |  |  |  |  |  |  |  |  |  | 0.763 | | Without | | | 7,609 | | | 99.86 | 3,805 | 99.87 | 1,155 | 99.83 | 2,650 | 99.89 | 3,804 | 99.84 |  | | With | | | 11 | | | 0.14 | 5 | 0.13 | 2 | 0.17 | 3 | 0.11 | 6 | 0.16 |  | | **Hyperparathyroidism** | | |  | | |  |  |  |  |  |  |  |  |  | 0.250 | | Without | | | 7,617 | | | 99.96 | 3,807 | 99.92 | 1,157 | 100.00 | 2,650 | 99.89 | 3,810 | 100.00 |  | | With | | | 3 | | | 0.04 | 3 | 0.08 | 0 | 0.00 | 3 | 0.11 | 0 | 0.00 |  | | **Hypoparathyroidism** | | |  | | |  |  |  |  |  |  |  |  |  | 0.317 | | Without | | | 7,619 | | | 99.99 | 3,809 | 99.97 | 1,157 | 100.00 | 2,652 | 99.96 | 3,810 | 100.00 |  | | With | | | 1 | | | 0.01 | 1 | 0.03 | 0 | 0.00 | 1 | 0.04 | 0 | 0.00 |  | | **RA** | | |  | | |  |  |  |  |  |  |  |  |  | 0.663 | | Without | | | 7,600 | | | 99.74 | 3,801 | 99.76 | 1,156 | 99.91 | 2,645 | 99.70 | 3,799 | 99.71 |  | | With | | | 20 | | | 0.26 | 9 | 0.24 | 1 | 0.09 | 8 | 0.30 | 11 | 0.29 |  | | **Dementia** | | |  | | |  |  |  |  |  |  |  |  |  | 0.654 | | Without | | | 7,438 | | | 97.61 | 3,716 | 97.53 | 1,157 | 100.00 | 2,559 | 96.46 | 3,722 | 97.69 |  | | With | | | 182 | | | 2.39 | 94 | 2.47 | 0 | 0.00 | 94 | 3.54 | 88 | 2.31 |  | | **Depression** | | |  | | |  |  |  |  |  |  |  |  |  | 0.510 | | Without | | | 7,563 | | | 99.25 | 3,779 | 99.19 | 1,156 | 99.91 | 2,623 | 98.87 | 3,784 | 99.32 |  | | With | | | 57 | | | 0.75 | 31 | 0.81 | 1 | 0.09 | 30 | 1.13 | 26 | 0.68 |  | | **Parkinsonism** | | |  | | |  |  |  |  |  |  |  |  |  | 0.999 | | Without | | | 7,612 | | | 99.90 | 3,806 | 99.90 | 1,156 | 99.91 | 2,650 | 99.89 | 3,806 | 99.90 |  | | With | | | 8 | | | 0.10 | 4 | 0.10 | 1 | 0.09 | 3 | 0.11 | 4 | 0.10 |  | | **Epilepsy** | | |  | | |  |  |  |  |  |  |  |  |  | 0.760 | | Without | | | 7,577 | | | 99.44 | 3,790 | 99.48 | 1,156 | 99.91 | 2,634 | 99.28 | 3,787 | 99.40 |  | | With | | | 43 | | | 0.56 | 20 | 0.52 | 1 | 0.09 | 19 | 0.72 | 23 | 0.60 |  | | **Cataract** | | |  | | |  |  |  |  |  |  |  |  |  | <0.001 | | Without | | | 7,315 | | | 96.00 | 3,532 | 92.70 | 1,013 | 87.55 | 2,519 | 94.95 | 3,783 | 99.29 |  | | With | | | 305 | | | 4.00 | 278 | 7.30 | 144 | 12.45 | 134 | 5.05 | 27 | 0.71 |  | | **ARMD** | | |  | | |  |  |  |  |  |  |  |  |  | 0.004 | | Without | | | 7,604 | | | 99.79 | 3,796 | 99.63 | 1,144 | 98.88 | 2,652 | 99.96 | 3,808 | 99.95 |  | | With | | | 16 | | | 0.21 | 14 | 0.37 | 13 | 1.12 | 1 | 0.04 | 2 | 0.05 |  | | **Disorders of menstruation** | | |  | | |  |  |  |  |  |  |  |  |  | 0.317 | | Without | | | 7,619 | | | 99.99 | 3,810 | 100.00 | 1,157 | 100.00 | 2,653 | 100.00 | 3,809 | 99.97 |  | | With | | | 1 | | | 0.01 | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 | 1 | 0.03 |  | | **Menopause** | | |  | | |  |  |  |  |  |  |  |  |  | 0.999 | | Without | | | 7,618 | | | 99.97 | 3,809 | 99.97 | 1,157 | 100.00 | 2,652 | 99.96 | 3,809 | 99.97 |  | | With | | | 2 | | | 0.03 | 1 | 0.03 | 0 | 0.00 | 1 | 0.04 | 1 | 0.03 |  | | **Digestive ulcer or hemorrhage** | | |  | | |  |  |  |  |  |  |  |  |  | 0.033 | | Without | | | 7,119 | | | 93.43 | 3,583 | 94.04 | 1,155 | 99.83 | 2,428 | 91.52 | 3,536 | 92.81 |  | | With | | | 501 | | | 6.57 | 227 | 5.96 | 2 | 0.17 | 225 | 8.48 | 274 | 7.19 |  | | **Tobacco use disorder** | | |  | | |  |  |  |  |  |  |  |  |  | 0.999 | | Without | | | 7,618 | | | 99.97 | 3,809 | 99.97 | 1,157 | 100.00 | 2,652 | 99.96 | 3,809 | 99.97 |  | | With | | | 2 | | | 0.03 | 1 | 0.03 | 0 | 0.00 | 1 | 0.04 | 1 | 0.03 |  | | **CCI\_R** | | | 0.35 ± 1.44 | | | | 0.57 ± 1.86 | |  |  | 0.51 ± 1.89 |  | 0.60 ± 1.85 | |  | | **Systemic corticosteroids** | | |  | | |  |  |  |  |  |  |  |  |  | 0.307 | | Without | | | 6,060 | | | 79.53 | 3,012 | 79.06 | 911 | 78.74 | 2,101 | 79.19 | 3,048 | 80.00 |  | | With | | | 1,560 | | | 20.47 | 798 | 20.94 | 246 | 21.26 | 552 | 20.81 | 762 | 20.00 |  | | **PPI** | | |  | | |  |  |  |  |  |  |  |  |  | 0.686 | | Without | | | 6,385 | | | 83.79 | 3,199 | 83.96 | 979 | 84.62 | 2,220 | 83.68 | 3,186 | 83.62 |  | | With | | | 1,235 | | | 16.21 | 611 | 16.04 | 178 | 15.38 | 433 | 16.32 | 624 | 16.38 |  | | **TZD** | | |  | | |  |  |  |  |  |  |  |  |  | 0.834 | | Without | | | 6,263 | | | 82.19 | 3,128 | 82.10 | 936 | 80.90 | 2,192 | 82.62 | 3,135 | 82.28 |  | | With | | | 1,357 | | | 17.81 | 682 | 17.90 | 221 | 19.10 | 461 | 17.38 | 675 | 17.72 |  | | **AI** | | |  | | |  |  |  |  |  |  |  |  |  | 0.648 | | Without | | | 6,520 | | | 85.56 | 3,267 | 85.75 | 990 | 85.57 | 2,277 | 85.83 | 3,253 | 85.38 |  | | With | | | 1,100 | | | 14.44 | 543 | 14.25 | 167 | 14.43 | 376 | 14.17 | 557 | 14.62 |  | | **GnRH agonist** | | |  | | |  |  |  |  |  |  |  |  |  | 0.801 | | Without | | | 6,424 | | | 84.30 | 3,208 | 84.20 | 969 | 83.75 | 2,239 | 84.40 | 3,216 | 84.41 |  | | With | | | 1,196 | | | 15.70 | 602 | 15.80 | 188 | 16.25 | 414 | 15.60 | 594 | 15.59 |  | | **DMPA** | | |  | | |  |  |  |  |  |  |  |  |  | 0.657 | | Without | | | 6,639 | | | 87.13 | 3,326 | 87.30 | 1,002 | 86.60 | 2,324 | 87.60 | 3,313 | 86.96 |  | | With | | | 981 | | | 12.87 | 484 | 12.70 | 155 | 13.40 | 329 | 12.40 | 497 | 13.04 |  | | **Season** | | |  | | |  |  |  |  |  |  |  |  |  | 0.091 | | Spring (Mar-May) | | | 2,030 | | | 26.64 | 1,008 | 26.46 | 322 | 27.83 | 686 | 25.86 | 1,022 | 26.82 |  | | Summer (Jun-Aug) | | | 1,785 | | | 23.43 | 875 | 22.97 | 269 | 23.25 | 606 | 22.84 | 910 | 23.88 |  | | Autumn (Sep-Nov) | | | 1,774 | | | 23.28 | 933 | 24.49 | 261 | 22.56 | 672 | 25.33 | 841 | 22.07 |  | | Winter (Dec-Feb) | | | 2,031 | | | 26.65 | 994 | 26.09 | 305 | 26.36 | 689 | 25.97 | 1,037 | 27.22 |  | | **Location** | | |  | | |  |  |  |  |  |  |  |  |  | <0.001 | | Northern Taiwan | | | 3,366 | | | 44.17 | 1,840 | 48.29 | 465 | 40.19 | 1,375 | 51.83 | 1,526 | 40.05 |  | | Middle Taiwan | | | 1,733 | | | 22.74 | 665 | 17.45 | 173 | 14.95 | 492 | 18.55 | 1,068 | 28.03 |  | | Southern Taiwan | | | 2,181 | | | 28.62 | 1,187 | 31.15 | 485 | 41.92 | 702 | 26.46 | 994 | 26.09 |  | | Eastern Taiwan | | | 320 | | | 4.20 | 106 | 2.78 | 30 | 2.59 | 76 | 2.86 | 214 | 5.62 |  | | Outlets islands | | | 20 | | | 0.26 | 12 | 0.31 | 4 | 0.35 | 8 | 0.30 | 8 | 0.21 |  | | **Urbanization level** | | |  | | |  |  |  |  |  |  |  |  |  | <0.001 | | 1 (The highest) | | | 3,125 | | | 41.01 | 1,840 | 48.29 | 625 | 54.02 | 1,215 | 45.80 | 1,285 | 33.73 |  | | 2 | | | 3,370 | | | 44.23 | 1,749 | 45.91 | 517 | 44.68 | 1,232 | 46.44 | 1,621 | 42.55 |  | | 3 | | | 326 | | | 4.28 | 55 | 1.44 | 4 | 0.35 | 51 | 1.92 | 271 | 7.11 |  | | 4 (The lowest) | | | 799 | | | 10.49 | 166 | 4.36 | 11 | 0.95 | 155 | 5.84 | 633 | 16.61 |  | | **Level of care** | | |  | | |  |  |  |  |  |  |  |  |  | <0.001 | | Hospital center | | | 3,921 | | | 51.46 | 2,635 | 69.16 | 983 | 84.96 | 1,652 | 62.27 | 1,286 | 33.75 |  | | Regional hospital | | | 1,972 | | | 25.88 | 821 | 21.55 | 152 | 13.14 | 669 | 25.22 | 1,151 | 30.21 |  | | Local hospital | | | 1,727 | | | 22.66 | 354 | 9.29 | 22 | 1.90 | 332 | 12.51 | 1,373 | 36.04 |  | | **Frequency of OPD** | | | 7.18 ± 10.77 | | | | 7.11 ± 10.27 | | 7.13 ± 10.41 | | 7.10 ± 10.21 | | 7.24 ± 11.25 | | 0.598 | | **Frequency of ER** | | | 0.87 ± 1.03 | | | | 0.85 ± 0.94 | | 0.87 ± 0.97 | | 0.84 ± 0.92 | | 0.89 ± 1.12 | | 0.091 | | **Frequency of IPD** | | | 1.63 ± 2.00 | | | | 1.62 ± 1.97 | | 1.64 ± 2.01 | | 1.61 ± 1.95 | | 1.64 ± 2.03 | | 0.663 | |  |  |  | |  | ***P:* Chi-square / Fisher exact test on category variables and t-test on continue variables** | | | | | | | | | | | |