

Supplemental Table 4. Relative importance of top predictor variables^a in the random forests model predicting need for surgical intervention within 6 months among patients with primary open-angle glaucoma derived from *All of Us*.

| Variable | Importance |
|--------------------------------------------|------------|
| Days of contact with the healthcare system | 0.189 |
| Hip circumference | 0.146 |
| Waist circumference | 0.116 |
| Body Mass Index | 0.060 |
| Weight | 0.057 |
| Maximum diastolic blood pressure | 0.040 |
| Height | 0.037 |
| Minimum diastolic blood pressure | 0.032 |
| Mean heart rate | 0.030 |
| Maximum systolic blood pressure | 0.029 |
| Minimum diastolic blood pressure | 0.028 |
| Maximum heart rate | 0.028 |
| Mean diastolic blood pressure | 0.027 |
| Minimum heart rate | 0.025 |
| Mean systolic blood pressure | 0.023 |
| Age | 0.020 |

^aRemaining predictor variables not shown had relative importance <0.01. The full list of variables and their associated importance values are available in the “Data Modeling using AoU Data” Python notebook in the *All of Us* workspace associated with this manuscript (“Systemic Disease and Glaucoma”).