**Supplemental materials**

**Supplemental Table 1.** Summary of the studies did not include for analysis

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Remark** | **Author** | **Type** | **Case** | **Control** |
| **n** | **mean** | **SD** | **n** | **mean** | **SD** |
| Did not fit for data analysis | Chono et al, 2018 [1] | POAG | 38 | na# | na | 100 | na | na |
| EXG | 31 | na | na |
| Did not fit for data analysis | Chua et al, 2012\* [2] | PACG | 12 | 24,75# | 19,5 | 23 | 6,79 | 4,75 |
| Not a case control | Cvenkel et al, 2010\* [3] | POAG | 26 | 69,5 | 39,5 | na | na | na |
| EXG | 4 | 36,5 | 6,25 |
| Did not fit for data analysis | Du et al, 2016\* [4] | PACG | 18 | 346,755# | 254,93 | 18 | 5,1625 | 3,1375 |
| Did not fit for data analysis | Duvesh et al, 2017\* [5] | PACG | 19 | 52,69# | 39,23 | 14 | 11,905 | 3,925 |
| Did not fit for data analysis | Gramlich et al, 2013 [6] | Glaucoma | 5 | 13394# | 2749 | 5 | 9990 | 1632 |
| Did not fit for data analysis | Inoue et al, 2012 [7] | POAG | 23 | 15,2# | na | 52 | 4,6 | na |
| EXG | 26 | 12,3 | na |
| Did not fit for data analysis | Wang et al, 2018 [8] | PACG | 40 | 5,8 | 7,5 | 24 | 6,7 | 7,7 |

POAG, primary open-angle glaucoma; PACG, primary angle-closure glaucoma; EXG, exfoliative glaucoma; n and SD, represented number of samples and stand deviation of glaucoma patients and control subjects, respectively. \*Indicate the mean and SD were estimated from median, range, and the size of the sample as previously described [9]. #Indicate a significant difference compared to control.

**References**

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