**Supplement Table 1. Clinical characteristics of patients for pre-PSM.**

MGD=meibomian gland dysfunction, OSDI=Ocular surface disease index, MG=meibomian gland, LLT=lipid layer thickness, TG=triglyceride, HDL= high-density lipoprotein, LDL= Low-density lipoprotein

|  |  |  |  |
| --- | --- | --- | --- |
| **Characteristics** | **MGD patients** | **Control patients** | **P-value** |
| **values** |
| **No. of patients** | 95 | 2924 |  |
| **Age(year)** | 57.5$\pm $13.2 | 48±15.7 | <.0001 |
| **Age(year) range** | 19-86 | 19-80 |  |
| **Age distribution** |  |  |
| <45(%) | 16(16.8) | 1313(44.9) | <.0001 |
| 45-64(%) | 47(49.5) | 1090(37.3) |
| >65(%) | 32(32.7) | 521(17.8) |
| **Gender** |  |  |  |
| Men (%) | 15(15.8) | 1491(51) | <.0001 |
| Women (%) | 80(84.2) | 1433(49) |
| **Lipid profile** |  |
| Total cholesterol(mg/dL)(normal value: < 200) | 193±33.9 | 189.7±36.9 | 0.395 |
| Triglyceride(mg/dL)(normal value: 34-143) | 127.2±75.3 | 132.7±112.8 | 0.6331 |
| HDL(mg/dL) (normal value: 40-60) | 63.1±14.7 | 50.2±12.3 | <.0001 |
| LDL(mg/dL)(normal value: <140) | 109.7±29.5 | 114±31.3\* | 0.2079\* |

Values are presented as mean $\pm $ standard deviation (range) or number (%).

HDL= high-density lipoprotein, LDL= Low-density lipoprotein

OSDI = Ocular surface disease index,IOP = intraocular pressure, TUBT= tear film break-up time

\* Since KNHAES did not conduct an LDL survey in 2012, we further analyzed the LDL data from 2015.