**Table 3. Bivariate (model 1.) and multivariate (model 2.) analysis examining risk factors associated with uterine fibroids among sociodemographic and clinical variables at MUH age greater or equal to 20 years old (n=193)**

|  |  |  |  |
| --- | --- | --- | --- |
| **Model 1. Bivariate analysis**  |  |  |  |
| **Sociodemographic characteristics**  | **Odd ratio**  | **95% CI** | **P-value** |
| Age category  |  |  |  |
|  20- 34 |  - |  |  |
|  >35-49  | 2.6 | (1.33 - 5.03) | 0.005 |
|  50+  | 1.2  | (0.53 - 2.90) | 0.611 |
| Zone of residence  |  |  |  |
|  Central plateau  | - |  |  |
|  Out of central plateau  | 2.3 | (1.22 - 4.17) | 0.01 |
| Number of pregnancies |  |  |  |
|  No pregnancy  | - |  |  |
|  1-3 pregnancies  | 0.6 | (0.29 - 1.32) | 0.216 |
|  >3 pregnancies  | 0.9 | (0.34 - 2.41) | 0.848 |
| Number of births (101) |  |  |  |
|  No childbirth  | - |  |  |
|  1-3 childbirths  | 0.6 | (0.30 - 1.14) | 0.115 |
|  > 3 childbirths  | 1.1 | (0.35 - 3.64) | 0.844 |
| Menopause  |  |  |  |
|  No  | - |  |  |
|  Yes  | 1.3 | (0.57 - 2.88) | 0.551 |
| Patient status  |  |  |  |
|  New patient  | - |  |  |
|  Follow up  | 3.2 | (1.14 - 8.84) | 0.026 |
| If follow-up patient  |  |  |  |
|  <6 months  | - |  |  |
|  6-12 moths  | 1.4 |  (0.25 - 7.89) |  0.699 |
|  ≥12 months  | 0.4 |  (0.11 - 1.63) | 0.208 |
| Type of residence  |  |  |  |
|  Rural  | - |  |  |
|  Urban  | 1.5 | (0.75 - 2.83) | 0.267 |
| Average time per medical appointment |  |  |  |
|  ≤2h | - |  |  |
|  >2h | 1.6 | (0.69 - 3.50) | 0.287 |
| Excessive expense for transport  |  |  |  |
|  No | - |  |  |
|  Yes  | 3.8 | (1.65 - 8.74) | 0.002 |
| Means of transport  |  |  |  |
|  Walk  | - |  |  |
|  Public transport  | 3.1 |  (1.34 - 7.28) | 0.008 |
|  Private transport  | 1.4 |  (0.29 - 6.27) | 0.694 |
| Health insurance  |  |  |  |
|  No | - |  |  |
|  Yes  | 0.5 | (0.24 - 1.12) | 0.098 |
| Education level  |  |  |  |
|  Primary  | - |  |  |
|  Higher education | 0.4 | (0.18 - 0.957) | 0.039 |
| Main profession |  |  |  |
|  Other (no specific profession)  | - |  | - |
|  Small business | 1.4 | (0.67 - 2.79) | 0.384 |
|  Educator | 1.8 | (0.64 - 5.24) | 0.256 |
|  Farmer | 5.1 | (1.04 - 25.29) | 0.044 |
|  Nurse | 0.8 | (0.31 - 2.02) | 0.631 |
| Employment  |  |  |  |
|  No | - |  |  |
|  Yes  | 1.1 | (0.61 - 1.99) | 0.744 |
|  Monthly Income  |  |  |  |
|  15 USD- ≤206USD (≤10 USD/day)  | - |  |  |
|  >206USD (>10 USD/day)  | 1.9  | (0.60 - 6.42) | 0.262 |
| Income decline (decline observed in the income after the diagnosis of uterine fibroids) |  |  |  |
|  No  | - |  |  |
|  Yes  | 3.0 | (1.64 - 5.54) | <0.001 |
| Degree of income decline  |  |  |  |
|  Low | - |  |  |
|  Moderate  | 1.1 |  (0.09 - 11.56) | 0.968 |
|  High | 0.6 |  (0.06 - 5.33) | 0.610 |
| Expenses category  |  |  |  |
|  Medical  | - |  |  |
|  Non-medical  | 0.7 |  (0.35 - 1.60) | 0.455 |
| **Clinical and psychosocial characteristics** |  |  |
| Family conflicts  |  |  |  |
|  No | - |  |  |
|  Yes | 2.6 | (1.12 - 6.16) | 0.026 |
| Family history with fibroids  |  |  |  |
|  No | - |  |  |
|  Yes  | 5.1 | (2.11 - 12.33) | <0.001 |
| Pelvic infection  |  |  |  |
|  No | - |  |  |
|  Yes | 0.6 | (0.30 - 1.24) | 0.170 |
| Ovarian micro polycystic |  |  |  |
|  No | - |  |  |
|  Yes | 0.2 | (0.12 - 0.41) | <0.001 |
| Constipation  |  |  |  |
|  No | - |  |  |
|  Yes | 1.6 | (0.80 - 3.05) | 0.191 |
| Pelvic mass  |  |  |  |
|  No | - |  |  |
|  Yes  | 2.0 | (1.10 - 3.67) | 0.024 |
| Abdominal-pelvic mass  |  |  |  |
|  No | - |  |  |
|  Yes | 1.6 | (0.46 - 5.25) | 0.475 |
| Mictional difficulty  |  |  |  |
|  No  | - |  |  |
|  Yes | 1.7 | (0.92 - 3.16) | 0.091 |
| Pelvic pressure  |  |  |  |
|  No | - |  |  |
|  Yes | 1.5 | (0.77 - 3.02) | 0.225 |
| Acute pelvic  |  |  |  |
|  No | - |  |  |
|  Yes | 1.75 | (0.97 - 3.17) | 0.062 |
| Chronic pelvic pain  |  |  |  |
|  No | - |  |  |
|  Yes | 1.3 | (0.65 - 2.48) | 0.476 |
| Polymenorrhagia  |  |  |  |
|  No | - |  |  |
|  Yes | 1.6 | (0.89 - 3.04) | 0.111 |
| Menorrhagia  |  |  |  |
|  No | - |  |  |
|  Yes | 1.6 | (0.89 - 3.04) | 0.111 |
| Metrorrhagia  |  |  |  |
|  No | - |  |  |
|  Yes | 1.6 | (0.89 - 3.01) | 0.111 |
| Dysmenorrhea  |  |  |  |
|  No | - |  |  |
|  Yes | 1.6 | (0.89 - 2.89) | 0.113 |
| Infertility  |  |  |  |
|  No | - |  |  |
|  Yes  | 1.5 | (0.80 - 2.89) | 0.198 |
| Stress  |  |  |  |
|  No | - |  |  |
|  Yes | 1.4 | (0.68 - 2.75) | 0.376 |
| Anemia  |  |  |  |
|  No | - |  |  |
|  Yes | 0.9 | (0.52 - 1.64) | 0.789 |
| Deep vein thrombosis  |  |  |  |
|  No | - |  |  |
|  Yes  | 14.1 |  (1.84 - 108.02) | 0.011 |
| Urinary stone |  |  |  |
|  No | - |  |  |
|  Yes  | 1.0 |  (0.45 - 2.30) | 0.972 |
| Hydronephrosis  |  |   |  |
|  No  | - |  |  |
|  Yes | 4.1 |  (0.49 - 35.13) | 0.192 |
| Depression  |  |  |  |
|  No  | - |  |  |
|  low (score 13-17) | 1.6 |  (0.60 - 4.06) | 0.350 |
|  Moderate (score 18-24) |  |  (0.62 - 42.73) | 0.130 |
| **Model 2. Multivariate analysis**  |  |  |  |
| **Characteristics**  | **Adjusted OR** | **95% CI** | **P-value** |
| Age category  |  |  |  |
|  <35  | - |  |  |
|  35-49 | 1.7 | (0.76 - 4.02) | 0.189 |
|  50-77 | 0.4 | (0.11 - 1.50) | 0.174 |
| Patient status  |  |  |  |
|  Initial Visit  | - |  |  |
|  Follow -up visit  | 2.8 | (0.79 - 9.95) | 0.110 |
| Excessive expense for transport  |  |  |  |
|  No | - |  |  |
|  Yes  | 4.4 | (1.55 - 12.38) | 0.005 |
| Heath Insurance  |  |  |  |
|  No | - |  |  |
|  Yes  | 1.2 | (0.44 - 3.30) | 0.709 |
| Education level |  |  |  |
|  Primary  | - |  |  |
|  Higher education  | 0.3 | (0.09 - 0.87) | 0.021 |
|  Income decline(decline observed in the income after the diagnosis of uterine fibroids) |  |  |  |
|  No | - |  |  |
|  Yes | 4.7 | (2.05 - 10.93) | <0.001 |
| Number of births  |  |  |  |
|  No childbirth  | - |  |  |
|  1-3 childbirths | 0.6 | (0.26 - 1.30) |  0.188 |
|  4+ childbirths  | 0.9 | (0.19 - 3.99)  |  0.866 |
| Family conflicts  |  |  |  |
|  No | - |  |  |
|  Yes  | 3.1 | (0.54 – 17.9) | 0.206 |
| Family history of fibroids  |  |  |  |
|  No | - |  |  |
|  Yes  | 4.6 | (1.58 - 13.56) | 0.005 |
| Pelvic infection  |  |  |  |
|  No | - |  |  |
|  Yes  | 0.4 |  (0.09 - 1.80) | 0.233 |
| Micro polycystic ovary |  |  |  |
|  No | - |  |  |
|  Yes | 0.3 |  (0.10 - 0.97) | 0.044 |
| Pelvic Mass |  |  |  |
|  No | - |  |  |
|  Yes | 2.2 |  (0.72 - 6.85) | 0.164 |
| Frequent menstruation  |  |  |  |
|  No | - |  |  |
|  Yes | 0.4 |  (0.14 - 1.16) | 0.094 |
| Deep Vein thrombosis  |  |  |  |
|  No | - |  |  |
|  Yes | 3.0 |  (0.29 – 31.89) | 0.352 |
| Depression  |  |  |  |
|  No | - |  |  |
|  Low | 5.7 | (0.56 - 59.18) | 0.142 |
|  Moderate  | 2.4 | (0.17 - 36.03) | 0.513 |