|  |  |  |  |
| --- | --- | --- | --- |
| Supplementary table 1. The gender distribution of gout patients with various Chinese medicine symptoms | | | |
| Syndrome | Male | Female | χ2, P- value |
| Obstruction of dampness and heat | 4,417  (69.08%) | 334  (66.53%) | χ2=9.855,  *p= 0.020* |
| Intermingled phlegm-stasis blood | 1,413  (22.10%) | 103  (20.52%) |
| Spleen deficiency and dampness stagnation | 485  (7.59%) | 57  (11.35%) |
| Cold-dampness obstruction | 79  (1.23%) | 8  (1.59%) |
| Total | 6,394  (100.00%) | 502  (100.00%) |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Supplementary table 2. The age distribution of four TCMs subtypes of male patients with acute gout onset | | | | |
| Syndrome | ≤35yr | 36-55yr | ≥56yr | Total |
| Obstruction of dampness and heat | 1195  (71.26%) | 2302  (68.09%) | 920  (68.86%) | 4417  (69.08%) |
| Intermingled phlegm-stasis blood | 317  (18.90%) | 793  (23.45%) | 303  (22.68%) | 1413  (22.10%) |
| Spleen deficiency and dampness stagnation | 17  (1.01%) | 44  (1.30%) | 18  (1.35%) | 79  (1.24%) |
| Cold-dampness obstruction | 148  (8.83%) | 242  (7.16%) | 95  (7.11%) | 485  (7.59%) |
| Total | 1677  (100.00%) | 3381  (100.00%) | 1336  (100.00%) | 6394  (100.00%) |
| ≤35yr group vs 36-55yr group, χ2=17.03, *p= 0.00*;  ≤35yr group vs 56-yr group, χ2=9.19, *p= 0.03*;  36-55yr group vs 56-yr group, χ2=0.35, *p= 0.95*. | | | |  |

Supplementary table 3. Indices involving blood lipid metabolism of two TCMs of male gout patients

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | Obstruction of dampness and heat syndrome | | Intermingled phlegm-stasis blood syndrome | | *P* -value | Normal range |
|  | No. | Mean± SD | No. | Mean± SD |  |  |
| Apo Al | 851 | 1.31±0.26 | 37 | 1.28±0.30 | 0.467 | 1-1.6 g/L |
| Apo B | 851 | 0.98±0.22 | 37 | 1.02±0.20 | 0.300 | 0.6-1 g/L |
| HDL | 967 | 1.09±0.29 | 107 | 1.06±0.30 | 0.053 | 0.78-2.0 mmol/L |
| LDL | 967 | 3.21±0.85**\*** | 107 | 3.21±0.80**\*** | 0.996 | 0-3.1 mmol/L |
| TG | 1053 | 2.04±1.72**\*** | 222 | 2.01±1.08**\*** | 0.841 | 0.4-1.8 mmol/L |
| TC | 1053 | 4.86±1.00 | 222 | 4.90±0.92 | 0.542 | 2.9-6.1mmol/L |
| Apo Al = Apolipoprotein al; Apo B = Apolipoprotein B; HDL = High density lipoprotein; LDL= Low density lipoprotein; TG = Total cholesterol; TC = Triglyceride.  “**\***” represents the mean level of this index of the TCM was higher than the maximum of the normal range. | | | | | | |

Supplementary table 4a. The analysis of indices reflecting immune function of male patients with acute gout

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | Obstruction of dampness and heat syndrome | | Intermingled phlegm-stasis blood syndrome | | 1. value | Normal Range |
|  | No. | Mean± SD | No. | Mean± SD |
| CRP | 940 | 18.96 ±30.10**\***  (0.1-275.8) | 103 | 17.97 ±30.76**\***  (0.2-185.6) | 0.318 | 0.42-5.2mg/L |
| IgG | 206 | 11.41 ±2.36 | 43 | 11.62 ±2.43 | 0.614 | 7.6-16.6g/L |
| IgM | 206 | 1.02 ±0.44 | 43 | 0.95 ±0.40 | 0.337 | 0.48-2.12g/L |
| C3 | 206 | 1.33 ±0.35 | 43 | 1.44 ±0.37 | 0.053 | 0.85-1.70g/L |
| C4 | 206 | 0.31 ±0.11 | 43 | 0.31 ±0.08 | 0.993 | 0.1-0.4g/L |
| CRP= C-reactive protein; IgG= immunoglobulin G; IgM= immunoglobulin M; C3= serum complement C3; C4= serum complement C4.  “**\***”represents the mean level of this index of the TCM was higher than the maximum of the normal range. | | | | | | |

Supplementary table 4b. Constitution of blood cells reflecting immune function of male patients with acute gout

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | Obstruction of dampness and heat syndrome | | Intermingled phlegm-stasis blood syndrome | | P- value | Normal Range |
|  | No. | Mean± SD | No. | Mean± SD |  |
| **WBC count** | **1249** | **8.35 ±2.69** | **191** | **7.93±2.19** | **0.016** | **4-10 ×109/L** |
| **NEUT count** | **1249** | **5.38 ±2.43** | **191** | **5.05 ±1.84** | **0.026** | **2-7 ×109/L** |
| **MONO count** | **1249** | **0.43 ±0.19** | **191** | **0.40 ±0.16** | **0.046** | **0-0.8 ×109/L** |
| BASO count | 1249 | 0.02 ±0.02 | 191 | 0.02 ±0.02 | 0.731 | 0-0.04 ×109/L |
| EO count | 1249 | 0.19 ±0.16 | 191 | 0.19 ±0.16 | 0.836 | 0.02-0.5 ×109/L |
| LYM count | 1249 | 2.32 ±0.73 | 191 | 2.26 ±0.68 | 0.296 | 0.8-4.0×109/L |
| NEUT% | 1249 | 62.72 ±10.00 | 191 | 62.76±8.57 | 0.947 | 50-70% |
| MONO% | 1249 | 5.24 ±1.65 | 191 | 5.08±1.33 | 0.220 | 3%-8% |
| BASO% | 1249 | 0.25 ±0.21 | 191 | 0.26±0.21 | 0.718 | 0-1% |
| EO% | 1249 | 2.44 ±2.11 | 191 | 2.43±1.82 | 0.943 | 0.5-5% |
| LYM% | 1249 | 29.50 ±9.20 | 191 | 29.46±8.07 | 0.956 | 20-40% |
| WBC= white blood cell; MONO= monocyte; LYM= lymphocyte; BASO= basophil; EO= eosinophils; NEUT= neutrophil count; | | | | | | |