**Supplementary Data**

**Table S1. Subgroup analyses of gout treatment outcomes by key characteristics in febuxostat switchers**

|  |  | **Gender** | **Age Group** | **Renal Failure** | **Quan-Charlson Index** |
| --- | --- | --- | --- | --- | --- |
| **All Patients(N=748)** | **Male(N=622)** | **Female(N=126)** | **<50(N=224)** | **50-64(N=335)** | **65-74(N=158)** | **>75(N=31)** | **Yes(N=56)** | **No (N=692)** | **= 0(N=442)** | **= 1(N=153)** | **= 2+(N=153)** |
| **Post SUA <6 mg/d**L**a** | **n** | **465** | **378** | **87** | **69** | **260** | **88** | **48** | **36** | **429** | **275** | **99** | **91** |
| % | 62.17 | 60.77 | 69.05 | 50.00 | 65.66 | 60.69 | 69.57h | 64.29 | 61.99 | 62.22 | 64.71 | 59.48 |
| **Post SUA <5 mg/d**L**b** | **n** | **291** | **232** | **59** | **30** | **166** | **59** | **36** | **22** | **269** | **177** | **57** | **57** |
| % | 38.90 | 37.30 | 46.83f | 21.74 | 41.92 | 40.69 | 52.17g | 39.29 | 38.87 | 40.05 | 37.25 | 37.25 |
| **Time to Post SUA <6 mg/d**L**c** | mean | 324.17 | 339.72 | 247.39g | 419.67 | 318.34 | 287.06 | 244.59g | 316.02 | 324.83 | 326.17 | 324.67 | 317.91 |
| SD | 315.69 | 323.23 | 263.44 | 349.52 | 312.72 | 295.01 | 261.26 | 285.05 | 318.22 | 318.85 | 309.08 | 315.02 |
| **Time to Post SUA <5 mg/d**L**d** | mean | 432.48 | 448.95 | 351.17f | 538.49 | 441.15 | 366.06 | 310.33g | 417.34 | 433.71 | 435.84 | 433.53 | 421.74 |
| SD | 341.65 | 344.49 | 316.16 | 357.15 | 341.75 | 322.39 | 280.97 | 311.58 | 344.14 | 345.55 | 342.54 | 331.24 |
| **% decrease in SUA (pre to post)e** | **valid N** | **445** | **368** | **77** | **81** | **239** | **89** | **36** | **34** | **411** | **258** | **94** | **93** |
| mean | 19.21 | 19.11 | 19.73 | 16.01 | 19.68 | 19.11 | 23.57 | 28.51 | 18.44f | 19.77 | 17.41 | 19.49 |
| SD | 26.64 | 25.98 | 29.80 | 21.86 | 27.03 | 30.50 | 23.71 | 30.44 | 26.20 | 27.94 | 26.65 | 22.87 |
| **Mean decrease in SUA (pre to post)e** | mean | 1.76 | 1.76 | 1.76 | 138 | 396 | 145 | 69 | 2.88 | 1.67f | 1.84 | 1.57 | 1.74 |
| SD | 2.16 | 2.18 | 2.07 | 538.49 | 441.15 | 366.06 | 310.33 | 2.65 | 2.09 | 2.20 | 2.21 | 2.01 |

aAt least one SUA measurement <6.0 mg/dL during the study period
bAt least one SUA measurement <5.0 mg/dL during the study period
cTime to earliest SUA measurement <6.0 mg/dL during the study period
dTime to earliest SUA measurement <5.0 mg/dL during the study period
eAmong those with at least one baseline measurement and one follow-up measurement; Decrease is defined as the difference between the average pre-index SUA measurement and the average post-index SUA measurement

fp <0.05

gp <0.001

hp=0.006

SUA = serum uric acid