Table S1 Comparison of the cost-effectiveness using different utility formulas

<table>
<thead>
<tr>
<th>Utilities</th>
<th>QALY</th>
<th>Incremental QALY</th>
<th>Total cost (¥)</th>
<th>Incremental cost (¥)</th>
<th>ICER (¥/QALY)</th>
</tr>
</thead>
</table>
| Using equation referring to the study [13]  
HUI-3 = 0.9527 − 0.2018 × HAQ-DI  
ABN + MTX  
Control | 0.79 | 0.25 | 63,815.4 | 32,516.8 | 130,067.2* |
|  | 0.64 | – | 31,298.6 | – | – |
| Using equation referring to the study [15]  
HUI3 = 0.76 + 0.05 × female + 0.001 × age-0.28 × HAQ-DI  
ABN + MTX  
Control | 0.64 | 0.21 | 63,815.4 | 32,516.8 | 154,841.9* |
|  | 0.43 | – | 31,298.6 | – | – |
| Using equation referring to the study [16]  
QoL = 0.862 − 0.327 × HAQ-DI  
ABN + MTX  
Control | 0.61 | 0.25 | 63,815.4 | 32,516.8 | 130,067.2* |
|  | 0.36 | – | 31,298.6 | – | – |
| Using equation referring to the study [17]  
QoL = 0.8229 − 0.1125 × HAQ-DI -0.06874 × HAQ-DI^2  
ABN + MTX  
Control | 0.68 | 0.21 | 63,815.4 | 32,516.8 | 154,841.9* |
|  | 0.47 | – | 31,298.6 | – | – |
| Using equation referring to the study [18]  
QoL = 0.76 − 0.28 × HAQ-DI + 0.05 × female  
ABN + MTX  
Control | 0.58 | 0.21 | 63,815.4 | 32,516.8 | 154,841.9* |
|  | 0.37 | – | 31,298.6 | – | – |

The average of gross domestic product (GDP) per capita in China from 2016 to 2019 was ¥62,634; *, the ICER was less than 3 times of the mean GDP per capita. QALY, quality-adjusted life-years; ICER, incremental cost-effectiveness ratio; HUI3, health utilities index mark 3; HAQ-DI, Health Assessment Questionnaire Disability Index; ABN, anbainuo; MTX, methotrexate; QoL, quality of life.