**Supplementary Table 6:** P values for *S. japonicum* intensity of infection (GMEPG) in Hunan province based on real-time PCR (qPCR) data

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **Sex** |  | **Male** |  | **p <0.05** |  |  |  |  |
|  | **Female** | 0.2052 |  |  |  |  |  |  |
|  | **Province** |  | **Hunan** |  |  |  |  |  |  |
|  | **Jiangxi** | 0.9541 |  |  |  |  |  |  |
|  | **Hunan** | **Villages** | Longwang | Xiangjiang | Zhangshu | Changjiang | Ganzhou | Xincheng | Dongtinghong |
|  | Longwang | na | na | na | na | na | na | na |
|  | Xiangjiang | 0.6278 | na | na | na | na | na | na |
|  | Zhangshu | 0.0122 | 0.0455 | na | na | na | na | na |
|  | Changjiang | 0.7326 | 0.9636 | 0.2044 | na | na | na | na |
|  | Ganzhou | 0.497 | 0.2712 | 0.0033 | 0.4523 | na | na | na |
|  | Xincheng | 0.0147 | 0.0557 | 0.8802 | 0.2362 | 0.004 | na | na |
|  | Dongtinghong | 0.2579 | 0.42 | 0.5457 | 0.5585 | 0.1254 | 0.6138 | na |
|  | Xinggang | 0.3009 | 0.4544 | 0.6078 | 0.5697 | 0.1614 | 0.6732 | 0.9801 |
|  |  |  | <10 | 10 - 20 | 20 - 40 | 40 - 60 | >60 |  |  |
|  | **Age group** | <10 | na | na | na | na | na |  |  |
|  | 10 - 20 | 0.9783 | na | na | na | na |  |  |
|  | 20 - 40 | 0.4540 | 0.4462 | na | na | na |  |  |
|  | 40 - 60 | 0.4179 | 0.4061 | 0.7018 | na | na |  |  |
|  | >60 | 0.9890 | 0.9877 | 0.0113 | 0.1048 | na |  |  |
|  |  |  | Illiterate | Primary school | Middle-high school | College |  |  |  |
|  | **Education** | Illiterate | na | na | na | na |  |  |  |
|  | Primary school | 0.0044 | na | na | na |  |  |  |
|  | Middle-high school | 0.1612 | 0.3464 | na | na |  |  |  |
|  | College | <0.0001 | 0.3464 | <0.0001 | na |  |  |  |
|  |  |  | Farmer | Fisherman | Farmer + Fisherman | Businessman | Teacher/administrator | Student | Unemployed |
|  | **Occupation** | Farmer | na | na | na | na | na | na | na |
|  | Fisherman | 0.1281 | na | na | na | na | na | na |
|  | Farmer + Fisherman | <0.0001 | <0.0001 | na | na | na | na | na |
|  | Businessman | <0.0001 | <0.0001 | 0.2869 | na | na | na | na |
|  | Teacher/administrator | 0.912 | 0.4456 | <0.0001 | <0.0001 | na | na | na |
|  | Student | - | - | - | - | - | na | na |
|  | Unemployed | - | - | - | - | - | - | na |
|  | Preschool/child | - | - | - | - | - | - | - |
|  | Other | - | - | - | - | - | - | - |
|  |  |  | Farmer/fisher | Business/teacher | Student/child | Unemployed | Other |  |  |
|  | **Occupation 2** | Farmer/fisher | na | na | na | na | na |  |  |
|  | Business/teacher | <0.0001 | na | na | na | na |  |  |
|  | Student/child | 0.9271 | <0.0001 | na | na | na |  |  |
|  | Unemployed + other | - | - | - | na | na |  |  |
|  |  |  | Home latrine | Public latrine | Field | Marsh or lake | Other | Unknown |  |
|  | **Defecate 2** | Home latrine | na | na | na | na | na | na |  |
|  | Public latrine | 0.0047 | na | na | na | na | na |  |
|  | Field | 0.8207 | 0.0056 | na | na | na | na |  |
|  | Marsh or lake | - | - | - | na | na | na |  |
|  | Other | - | - | - | - | na | na |  |
|  | Unknown | - | - | - | - | - | na |  |
|  |  |  | No | 1-5 episodes/fortnight | >5 episodes/fortnight | Don't know |  |  |  |
|  | **Diarrhoea** | No | na | na | na | na |  |  |  |
|  | 1-5 episodes/fortnight | 0.3431 | na | na | na |  |  |  |
|  | >5 episodes/fortnight | <0.0001 | 0.0496 | na | na |  |  |  |
|  | Don't know | - | - | - | na |  |  |  |
|  |  |  | No | 1-5 episodes/fortnight | >5 episodes/fortnight | Don't know |  |  |  |
|  | **Weakness** | No | na | na | na | na |  |  |  |
|  | 1-5 episodes/fortnight | 0.0334 | na | na | na |  |  |  |
|  | >5 episodes/fortnight | 0.4039 | 0.0033 | na | na |  |  |  |
|  | Don't know | <0.0001 | 0.0691 | <0.0001 | na |  |  |  |
|  |  |  | No | 1-5 episodes/fortnight | >5 episodes/fortnight | Don't know |  |  |  |
|  | **Fever** | No | na | na | na | na |  |  |  |
|  | 1-5 episodes/fortnight | <0.0001 | na | na | na |  |  |  |
|  | >5 episodes/fortnight | <0.0001 | <0.0001 | na | na |  |  |  |
|  | Don't know | - | - | - | na |  |  |  |
|  |  |  | Yes | No | Don't know |  |  |  |  |
|  | **HepB** | Yes | na | na | na |  |  |  |  |
|  | No | 0.9821 | na | na |  |  |  |  |
|  | Don't know | 0.0268 | 0.5154 | na |  |  |  |  |
|  |  |  | Yes | No | Don't know |  |  |  |  |
|  | **Ever had schistosomiasis** | Yes | na | na | na |  |  |  |  |
|  | No | 0.0543 | na | na |  |  |  |  |
|  | Don't know | - | - | na |  |  |  |  |
|  |  |  | Yes | No | Don't know |  |  |  |  |
|  | **Had advanced schistosomiasis** | Yes | na | na | na |  |  |  |  |
|  | No | - | na | na |  |  |  |  |
|  | Don't know | - | - | na |  |  |  |  |
|  |  |  | Yes | No | Don't know |  |  |  |  |
|  | **Had acute schistosomiasis** | Yes | na | na | na |  |  |  |  |
|  | No | - | na | na |  |  |  |  |
|  | Don't know | - | - | na |  |  |  |  |
|  |  |  | Yes | No | Don't know |  |  |  |  |
|  | **Treated for schistosomiasis last 2 years** | Yes | na | na | na |  |  |  |  |
|  | No | 0.4103 | na | na |  |  |  |  |
|  | Don't know | - | - | na |  |  |  |  |
|  |  |  | <5 | 5-10 | 10-20 | >20 |  |  |  |
|  | **Years worked in this village** | <5 | na | na | na | na |  |  |  |
|  | 5-10 | 0.0015 | na | na | na |  |  |  |
|  | 10-20 | 0.1016 | 0.2680 | na | na |  |  |  |
|  | >20 | - | - | - | na |  |  |  |
|  |  |  | Yes | No | Don't know | No answer |  |  |  |
|  | **Live and work for more than 6 mths/yr in this village** | Yes | na | na | na | na |  |  |  |
|  | No | <0.0001 | na | na | na |  |  |  |
|  | Don't know | - | - | na | na |  |  |  |
|  | No answer | - | - | - | na |  |  |  |
|  |  |  | Yes | No | Don't know | No answer |  |  |  |
|  | **Have you had water contact last 12 mths** | Yes | na | na | na | na |  |  |  |
|  | No | 0.8964 | na | na | na |  |  |  |
|  | Don't know | - | - | na | na |  |  |  |
|  | No answer | - | - | - | na |  |  |  |
| **Spring water contact activities** |  |  | >1 per wk | Between weekly and monthly | 1 per mth | No response |  |  |  |
| **Frequency of water contact** | >1 per wk | na | na | na | na |  |  |  |
| Between weekly and monthly | 0.5481 | na | na | na |  |  |  |
| 1 per mth | 0.5505 | 0.7840 | na | na |  |  |  |
| No response | - | - | - | na |  |  |  |
|  |  | Unchecked |  |  |  |  |  |  |
| **Fishing** | Checked | 0.3709 |  |  |  |  |  |  |
|  |  | Unchecked |  |  |  |  |  |  |
| **Herding bovines** | Checked | <0.0001 |  |  |  |  |  |  |
|  |  | Unchecked |  |  |  |  |  |  |
| **Farming/Cutting grass** | Checked | 0.5299 |  |  |  |  |  |  |
|  |  | Unchecked |  |  |  |  |  |  |
| **washing clothes** | Checked | 0.3656 |  |  |  |  |  |  |
|  |  | Unchecked |  |  |  |  |  |  |
| **Swimming or playing** | Checked | <0.0001 |  |  |  |  |  |  |
|  |  | Unchecked |  |  |  |  |  |  |
| **Wading/Washing hands** | Checked | 0.9763 |  |  |  |  |  |  |
|  |  | Unchecked |  |  |  |  |  |  |
| **Other** | Checked | <0.0001 |  |  |  |  |  |  |
| **Summer water contact activities** |  |  | >1 per wk | Between weekly and monthly | 1 per mth | No response |  |  |  |
| **Frequency of water contact** | >1 per wk | na | na | na | na |  |  |  |
| Between weekly and monthly | 0.3379 | na | na | na |  |  |  |
| 1 per mth | 0.6165 | 0.0270 | na | na |  |  |  |
| No response | - | - | - | na |  |  |  |
|  |  | Unchecked | |  |  |  |  |  |
| **Fishing** | Checked | <0.0001 |  |  |  |  |  |  |
|  |  | Unchecked |  |  |  |  |  |  |
| **Herding bovines** | Checked | <0.0001 |  |  |  |  |  |  |
|  |  | Unchecked |  |  |  |  |  |  |
| **Farming/Cutting grass** | Checked | 0.8521 |  |  |  |  |  |  |
|  |  | Unchecked |  |  |  |  |  |  |
| **washing clothes** | Checked | 0.0010 |  |  |  |  |  |  |
|  |  | Unchecked |  |  |  |  |  |  |
| **Swimming or playing** | Checked | <0.0001 |  |  |  |  |  |  |
|  |  | Unchecked |  |  |  |  |  |  |
| **Wading/Washing hands** | Checked | 0.6056 |  |  |  |  |  |  |
|  |  | Unchecked |  |  |  |  |  |  |
| **Other** | Checked | <0.0001 |  |  |  |  |  |  |
| **Autumn water contact activities** |  |  | >1 per wk | Between weekly and monthly | 1 per mth | No response |  |  |  |
| **Frequency of water contact** | >1 per wk | na | na | na | na |  |  |  |
| Between weekly and monthly | 0.9956 | na | na | na |  |  |  |
| 1 per mth | 0.8059 | 0.8578 | na | na |  |  |  |
| No response | - | - | - | na |  |  |  |
|  |  | Unchecked |  |  |  |  |  |  |
| **Fishing** | Checked | <0.0001 |  |  |  |  |  |  |
|  |  | Unchecked |  |  |  |  |  |  |
| **Herding bovines** | Checked | <0.0001 |  |  |  |  |  |  |
|  |  | Unchecked |  |  |  |  |  |  |
| **Farming/Cutting grass** | Checked | 0.6537 |  |  |  |  |  |  |
|  |  | Unchecked |  |  |  |  |  |  |
| **washing clothes** | Checked | - |  |  |  |  |  |  |
|  |  | Unchecked |  |  |  |  |  |  |
| **Swimming or playing** | Checked | - |  |  |  |  |  |  |
|  |  | Unchecked |  |  |  |  |  |  |
| **Wading/Washing hands** | Checked | 0.4786 |  |  |  |  |  |  |
|  |  | Unchecked |  |  |  |  |  |  |
| **Other** | Checked | - |  |  |  |  |  |  |
| **Water contact - seasons combined** |  |  | Unchecked |  |  |  |  |  |  |
| **Fishing** | Checked | 0.0157 |  |  |  |  |  |  |
|  |  | Unchecked |  |  |  |  |  |  |
| **Herding bovines** | Checked | <0.0001 |  |  |  |  |  |  |
|  |  | Unchecked |  |  |  |  |  |  |
| **Farming/Cutting grass** | Checked | 0.5385 |  |  |  |  |  |  |
|  |  | Unchecked |  |  |  |  |  |  |
| **washing clothes** | Checked | 0.6608 |  |  |  |  |  |  |
|  |  | Unchecked |  |  |  |  |  |  |
| **Swimming or playing** | Checked | <0.0001 |  |  |  |  |  |  |
|  |  | Unchecked |  |  |  |  |  |  |
| **Wading/Washing hands** | Checked | 0.6904 |  |  |  |  |  |  |
|  |  | Unchecked |  |  |  |  |  |  |
| **Other** | Checked | <0.0001 |  |  |  |  |  |  |
|  |  | Unchecked |  |  |  |  |  |  |
| **Any WC** | Checked | 0.1530 |  |  |  |  |  |  |

GMEPG: Geometric mean eggs per gram of faeces