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**Supplementary Data**

**A new luciferase immunoprecipitation system assay provided serological evidence for missed diagnosis of severe fever with thrombocytopenia syndrome**

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**Figrue S1** IgM and IgG response to SFTSV in the serum samples from febrile patients were confirmed by IFAs. Images of representative samples were shown, including seven LIPS-positive samples, two LIPS-negative samples and one healthy donor samples. Samples having neutralization against SFTSV were indicated by a superscript pound sign in red. Scale bar =400 μm.

**Table S1** Gender, age, and the time post illness onset of the 82 febrile patients having anti-SFTSV antibody as tested by LIPS

|  |  |  |
| --- | --- | --- |
| Anti-SFSTV positive patients | Positive samples (n, %) | *P* value |
| Gender | Male | 47, 10.1% | 0.033 |
|  | Female | 35, 7.5% |
| Age | 21–40 | 13, 2.8% | <0.001 |
|  | 41–60 | 13, 2.8% |
|  | ≥ 61 | 56, 12.1% |
| Day post illness onseta | 1–7 | 46, 9.9% | <0.001 |
| 8–14 | 8, 1.7% |
| 15–21 | 12, 2.6% |
| >3 weeks | 10, 2.2% |

a The days post illness onset was analysed based on 76 patients with detailed records.