**SDC 1**. Serological Diagnosis of Clinically Suspected Acute Rickettsiosis in Children: Comparison of Murine Typhus and Spotted Fever Seropositive Cases

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| --- | --- | --- | --- |
|  | MT (N=177) | SF (N=21) | *P* |
| Age (years) |  |  |  |
| mean ± SD (range) > | 11.5±4.9 (0.4 -18.1) | 7.8±5.8 (0.7-18.0) | 0.001 |
| 1 (N,%) | 3 (1.7%) | 1 (4.8%) | 0.363 |
| ≥8 (N, %) | 130 (73.4%) | 9 (42.9%) | 0.003 |
| Gender |  |  |  |
| Male (N, %) | 110 (62.1%) | 12 (57.1%) | 0.66 |
| Ethnicity |  |  |  |
| Bedouin (N, %) | 159 (89.9%) | 20 (95.2%) | 0.69 |
|  Jewish (N, %) | 18 (10.1%) | 1 (4.8%) |  |
| Seasonality\* |  |  |  |
| Warm months: (N, %) | 130 (73.4%) | 14 (66.7%) | 0.51 |
| Clinical Manifestations |  |  |  |
| Fever (≥38°C) | 153 (86.4%) | 19 (90.5%) | 0.60 |
| Mean Temperature ± SD | 38.9 ±1.2 | 39 ±1.2 | 0.72 |
| Presence of rash (N, %) | 44 (24.9%) | 9 (42.9%) | 0.08 |
| CNS involvement (N, %) | 13 (7.3%) | 2 (9.5%) | 0.66 |
| Laboratory Findings |  |  |  |
| WBC (mm³); mean ± SD | 7.4 ±4.1 | 10.2 ±7.8 | 0.009 |
|  WBC≤5,000/mm³ (N, %) | 56/177 (31.6%) | 6/20 (30%) | 0.88 |
|  WBC≥15,000/mm³ (N, %) | 10/177 (5.6%) | 5/20 (25.0%) | 0.001 |
| Platelets(mm³); mean ± SD | 211.9 ±106.1 | 219.9 ±151.7 | 0.76 |
|  Platelets≤150 mm³ (N, %) | 58/177 (32.8%) | 9/20 (45.0%) | 0.27 |
| Sodium (mEq/L); mean ± SD | 134.8 ±2.9 (135) | 133.1 ±5.0 (134) | 0.026 |
| Sodium ≤134mEq/L (N, %) | 71/172 (41.3%) | 13/20 (65.0%) | 0.042 |
| GOT (units); mean ± SD | 50.9 ±49.9 | 57.1 ±52.8 (34.5) | 0.62 |
| GOT≥ 40U (N, %) | 71/157 (45.2%) | 8/18 (44.4%) | 0.95 |
| GPT (units); mean ± SD | 36.3±39.4 | 33.5±30.3 | 0.77 |
| GPT≥ 40U (N, %) | 45/162 (27.8%) | 4/19 (21.0%) | 0.78 |
| CRP (mg/dL); mean ± SD  | 7.0±7.7 | 18.0±9.5 | <0.001 |
| CRP≥7 mg/dL (N, %) | 48/141 (34.0%) | 9/15 (60%) | 0.047 |
| Treatment |  |  |  |
| Any treatment† (N, %) | 83 (46.9%) | 12 (57.1%) | 0.37 |
| Doxycycline (N, %) | 81/83 (97.6%) | 11/12 (91.7%) | 0.33 |
| Outcome |  |  |  |
| Hospitalization (N, %) | 122 (68.9%) | 15 (71.4%) | 0.81 |
| Hospitalization duration (days): mean ± SD | 4.2 ±3.0 | 5.1 ±2.9 | 0.27 |
| Hospitalization duration≥4 days (N, %) | 57/122 (46.7%) | 11/15 (73.3%) | 0.05 |
| PICU (N, %) | 3 (1.7%) | 1 (4.8%) | 0.34 |
| Mortality (N, %) | 0 | 0 | 1.0 |

\*Warm months – Summer and Fall (June through November); **†** Any treatment: doxycycline/macrolides

CNS indicates central nervous system; WBC, white blood cells; GOT, glutamic-oxaloacetic transaminase;

GPT, glutamic- pyruvic transaminase; CRP, C-reactive protein, PICU, pediatric intensive care unit