# **Diagnostic accuracy of the INSHI consensus case definition for the diagnosis of paradoxical tuberculosis-IRIS**

*Cari Stek, Jozefien Buyze, Joris Menten, Charlotte Schutz, Friedrich Thienemann, Lisette Blumenthal, Gary Maartens, Tom Boyles, Robert J. Wilkinson, Graeme Meintjes, and Lutgarde Lynen*

Online Supplement



**Figure S1 Flow of participants**

**Table S1 LCA-predicted sensitivity and specificity of variables in alternative latent class models.**

|  |  |  |  |
| --- | --- | --- | --- |
|  | Model with variables selected based on unadjusted OR > 5.0 or < 0.2 (5-model) | Model replacing maximum CRP with baseline urine LAM | Model replacing fever with weight loss |
| Variable | LCA predicted sensitivity | LCA predicted specificity | LCA predicted sensitivity | LCA predicted specificity | LCA predicted sensitivity | LCA predicted specificity |
| Respiratory symptoms  | 0.59 | 0.84 | 0.60 | 0.83 | 0.56 | 0.81 |
| Night sweats | 0.61 | 0.98 | 0.59 | 0.96 | 0.54 | 0.92 |
| INSHI major 1 (new or enlarging lymph nodes) | 0.27 | 0.97 | 0.28 | 0.99 | 0.27 | 0.98 |
| INSHI major 2 (new or worsening CXR abnormalities) | 0.36 | 0.97 | 0.36 | 0.96 | 0.34 | 0.96 |
| INSHI major 4 (new or worsening serositis) | 0.02 | 0.99 | 0.02 | 1.00 | 0.03 | 1.00 |
| Maximum C-reactive protein > 90 mg/l | 0.66 | 0.86 | - | - | 0.71 | 0.92 |
| Maximum heart rate > 120 bpm | - | - | 0.76 | 0.77 | 0.76 | 0.79 |
| Maximum temperature > 37.7 0C | 0.41 | 1.00 | 0.42 | 0.99 | - | - |
| Nadir CD4 count < 50 cells/μl | - | - | 0.79 | 0.54 | 0.78 | 0.54 |
| Baseline urine LAM (≥ 1) | - | - | 0.76 | 0.67 | - | - |
| Weight loss | - | - | - | - | 0.58 | 0.89 |

**Table S2 LCA-predicted sensitivity and negative likelihood ratio of different cut-off values of CRP**

|  |  |  |
| --- | --- | --- |
| CRP value (mg/ml) | LCA predicted sensitivity | LCA predicted negative likelihood ratio |
| > 10 | 0.99 | 0.07 |
| > 20 | 0.97 | 0.09 |
| > 30 | 0.95 | 0.13 |
| > 40 | 0.93 | 0.15 |
| > 50 | 0.92 | 0.13 |
| > 60 | 0.88 | 0.20 |
| > 70 |  0.80 | 0.27 |
| > 80 | 0.77 | 0.28 |
| > 90 | 0.73 | 0.30 |
| > 100 | 0.64 | 0.39 |