

Table S1 GRADEpro level of quality evidences assessment for TB treatment outcomes

| Outcomes                                                                                       | Anticipated absolute effects* (95% CI) |                                      | Relative effect (95% CI)         | No of participants (studies) | Certainty of the evidence (GRADE) |
|------------------------------------------------------------------------------------------------|----------------------------------------|--------------------------------------|----------------------------------|------------------------------|-----------------------------------|
|                                                                                                | Risk with [comparison]                 | Risk with [intervention]             |                                  |                              |                                   |
| Successful treatment outcome (successful outcome) assessed with: <b>RR</b> follow up: 6 months | 793 per 1,000                          | <b>777 per 1,000</b><br>(705 to 856) | <b>RR 0.98</b><br>(0.89 to 1.08) | 731<br>(5 RCTs)              | ⊕⊕○○<br>LOW                       |
| Sputum conversion assessed with: <b>RR</b> follow up: 6 months                                 | 720 per 1,000                          | <b>835 per 1,000</b><br>(742 to 950) | <b>RR 1.16</b><br>(1.03 to 1.32) | 348<br>(5 RCTs)              | ⊕⊕○○<br>LOW                       |

\*The risk in the intervention group (and its 95% confidence interval) is based on the assumed risk in the comparison group and the **relative effect** of the intervention (and its 95% CI).

CI: Confidence interval; RR: Risk ratio

Table S2 GRADEpro level of quality evidences assessment for serum zinc, retinol and hemoglobin

| Outcomes                                            | Anticipated absolute effects* (95% CI)                       |                                                              | Relative effect (95% CI) | No of participants (studies) | Certainty of the evidence (GRADE) |
|-----------------------------------------------------|--------------------------------------------------------------|--------------------------------------------------------------|--------------------------|------------------------------|-----------------------------------|
|                                                     | Risk with [comparison]                                       | Risk with [intervention]                                     |                          |                              |                                   |
| Serum retinol value at 2 month (retinol at 2 month) | The mean serum retinol value at 2 month was <b>0</b> umol/l  | MD <b>0.06 umol/l higher</b><br>(0.04 higher to 0.08 higher) | -                        | 210<br>(3 RCTs)              | ⊕⊕⊕○<br>MODERATE                  |
| Serum retinol values at 6 month (retinol value)     | The mean serum retinol values at 6 month was <b>0</b> umol/l | MD <b>0.12 umol/l higher</b><br>(0.1 higher to 0.14 higher)  | -                        | 210<br>(3 RCTs)              | ⊕⊕⊕○<br>MODERATE                  |
| serum zinc value at 2 month                         | The mean serum zinc value at 2 month was <b>0</b> umol/l     | MD <b>0.86 umol/l higher</b><br>(0.14 higher to 1.57 higher) | -                        | 362<br>(4 RCTs)              | ⊕⊕⊕○<br>MODERATE                  |
| serum zinc at 6 month                               | The mean serum zinc at 6 month was <b>0</b> umol/l           | MD <b>0.28 umol/l higher</b><br>(0.06 lower to 0.62 higher)  | -                        | 362<br>(4 RCTs)              | ⊕⊕⊕○<br>MODERATE                  |
| serum hemoglobin at 2 month                         | The mean serum hemoglobin at 2 month was <b>0</b> ug/dl      | <b>0.15 ug/dl higher</b><br>(0.5 lower to 0.8 higher)        | -                        | 323<br>(3 RCTs)              | ⊕⊕⊕○<br>MODERATE                  |
| serum hemoglobin at 6 month                         | The mean serum hemoglobin at 6 month was <b>0</b> ug/dl      | <b>0.29 ug/dl higher</b><br>(0.08 higher to 0.51 higher)     | -                        | 323<br>(3 RCTs)              | ⊕⊕⊕○<br>MODERATE                  |

\*The risk in the intervention group (and its 95% confidence interval) is based on the assumed risk in the comparison group and the **relative effect** of the intervention (and its 95% CI).

CI: Confidence interval; MD: Mean difference