

**Table 3 Crude and multivariate analysis (logistic regression) of the relationship between AEFIs and characteristics of the participants, children aged around 2, 4 and 6 months, Zahedan, 2019**

| Model/variable   | Crude OR (95% CI) | Adjusted OR (95% CI) | P-value <sup>a</sup> |
|--|-------------------|----------------------|----------------------|
| <b>Model No. 1 (n = 1100<sup>b</sup>)</b>  |                   |                      |                      |
| <b>Response variable: local injection site complications (mild vs none)</b>                |                   |                      |                      |
| <b>Mother's education category</b><br>College education vs illiterate to diploma           | 0.44 (0.33–0.59)  | 0.42 (0.30–0.56)     | < 0.001              |
| <b>Work experience (&gt; 7 years vs 4–7 years)</b>   | 1.48 (1.16–1.88)  | 1.85 (1.40–2.46)     | < 0.001              |
| <b>Vaccine producer</b>  |                   |                      |                      |
| (Producer B vs producer A)   | 3.01 (1.01–9.02)  | 2.07 (0.67–6.42)     | 0.208                |
| (Producer C vs producer A)   | 3.93 (1.31–11.82) | 3.69 (1.20–11.37)    | 0.023                |
| <b>Fever within 72 hours of vaccination (°C)</b>   |                   |                      |                      |
| Mild (37.5 to 38.4) vs normal (≤ 37.4)   | 2.05 (1.59–2.64)  | 2.56 (1.94–3.36)     | < 0.001              |
| High (> 38.4) vs normal (≤ 37.4)   | 3.43 (2.14–5.52)  | 4.36 (2.63–7.23)     | < 0.001              |
| <b>Birth weight (≥ 2500g vs &lt; 2500 g)</b>   | 0.51 (0.34–0.77)  | 0.45 (0.29–0.70)     | < 0.001              |
| <b>Weight for age Z-score (&lt; 1.0 vs ≥ 1.0)</b>  | 1.59 (1.04–2.42)  | 1.81 (1.16–2.85)     | 0.009                |
| <b>Father's education category: college education vs illiterate to diploma<sup>c</sup></b> | 0.48 (0.36–0.64)  | 0.44 (0.33–0.60)     | < 0.001              |
| <b>Model No. 2 (n = 1119)</b>  |                   |                      |                      |
| <b>Response variable: local injection site complications (severe vs none or mild)</b>      |                   |                      |                      |
| <b>Fever within 72 hours of vaccination (°C)</b>   |                   |                      |                      |
| Mild (37.5 to 38.4) vs normal (≤ 37.4)   | 1.84 (0.53–7.22)  | 1.58 (0.50–5.00)     | 0.433                |
| High (> 38.4) vs normal (≤ 37.4)   | 7.68 (1.90–32.37) | 7.50 (2.23–25.22)    | 0.001                |
| <b>History of BCG lymphadenitis</b>  | 3.85 (0.70–14.08) | 3.89 (1.04–14.49)    | 0.043                |

OR = odds ratio; CI = confidence interval.

<sup>a</sup>P-values from Wald-test logistic regression analysis.

<sup>b</sup>Participants with severe complications at the injection site (19 children) were not included in model No. 1.

<sup>c</sup>In fitting regression model No. 1, due to the association between level of education among the mothers and fathers ( $r = 0.73$ ;  $P < 0.001$ ), these variables were regressed in 2 separate models.