negative subjects (p<0.0001). 97.8% of the JEV positive and 92.5% of inconclusive samples had detectable titres against all four dengue serotypes, compared with 71.0% of the JEV negative samples. For every monotypic dengue serotype, the GMT was highest in JEV positive subjects, followed by those with an inconclusive JEV result, and lowest in the JEV negative group.

Conclusion: While limited by a lack of PRNT data from dengue IgG negative subjects, these results suggest that JEV IgG ELISA test results in dengue-endemic areas should be viewed with caution. More specific laboratory methods, such as JEV PRNT, should be employed where available.

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DPT vaccination rate in children ages 1 to 5 years old and associated factors in K’bang District, Gia Lai Province, Viet Nam in 2015

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Background: From October 2013 to July 2014, 108 suspected diphtheria cases were reported in 13 out of 14 communes in the K’bang district of Gia Lai province. Seven out of sixteen cases were confirmed positive with diphtheria, including two deaths. The current investigation found that 87% cases had not vaccinated with DPT while the expected coverage of DPT vaccination was 94%. The study aimed to estimate the DPT immunization coverage rate of children 1 to 5 years old and identify associated factors in this district in 2015.

Methods & Materials: Using a cross-sectional study design, seven out of fourteen communes were randomly selected. In each commune information regarding vaccination status for 50 children, aged 1 to 5 years old, was collected. This data was used to estimate the overall district vaccination rate using a weighted cluster analysis. Multivariable logistic regression models were applied to identify factors associated with the immunization status of children.

Results: 79% of the children surveyed received 3 DPT shots. Based on this study the estimated district vaccination coverage is 81%, 61% were from the Ba Na ethnic group, 87.4% were care for by the communal health center, and 68.7% were vaccinated in that communal health center, 92.3% of the mother or father received the vaccination information from commune health workers. Characteristics associated children receiving full vaccination were their ethnic group (OR = 0.45, 95% CI = 0.22, 0.89); their registration with the communal health center (OR = 0.02, 95% CI = 0.01, 0.06); the education level of mother (OR = 1.62, 95% CI = 1.19, 2.23); their economic status (OR = 1.91, 95% CI = 1.11, 3.29); the parents’ understanding of vaccination (OR = 0.40, 95% CI = 0.24, 0.68).

Conclusion: This study shows that a significant gap exists between the observed vaccination coverage (81%) and the goal immunization coverage rate (98%). Groups that need specific attention ethnic minorities and those who are not registered at communal health centers. This study suggests that many parents do not get their children vaccinated because of a lack of understanding and educations campaigns should be introduced to improve vaccination uptake.