

CHAPTER 6

Conclusion, Recommendation, Ethical consideration, Benefit of study.

6.1. Conclusion:

6.1.1. Diagnostic value of EIA :

- Sensitivity: 78.1% with CI 95% = $78.1\% \pm 9.5\%$ (68.6% to 87.6%)
- Specificity: 81.1% with CI 95% = $81.1\% \pm 4.3\%$ (76.8 to 85.4%)
- Accuracy: 78.0% - 80.6%

6.1.2 Sensitivity of EIA test is better than Widal test in diagnosing typhoid fever.

6.1.3 EIA is rapid and simple (take only one hour to get the results without special equipment)

6.1.4 EIA is cost – effective.

6.2. Recommendation

Even though the diagnostic value of EIA is not high as expected, it is still better than Widal test for diagnosis of typhoid fever. More than that EIA's technique is simple, rapid and economized. So it is easy to be applied in field or district hospitals. That is why, with the difficult status in Vietnam, EIA should be considered to replace the Widal test to be a routine test in diagnosing typhoid fever.

6.3. Ethical consideration.

The ethical consideration in this study is not a problem, because it takes only 2 ml blood from patients for typhi dot test and does not affect healthy patients, a blood sample is only drawn from patient willing to participate in the study.

6.4. Benefit of the study:

Typhi dot test is fast, simple, economized and needs no special equipment. That is why it is easy to be implemented in a field and district hospitals. More than that its diagnostic value is better than Widal test, so it is more helpful for physician in diagnosing of typhoid fever and making decision for treatment with specific antibiotics. It can help to manage early stage of typhoid leading to quick recovery and preventing complication. It also can help manage epidemics.

6.5. Suggesting further study.

6.5.1. To avoid a false negative of test due to high level of IgG in blood of patient, we should conduct a study of typhi dot M to see the validity of this test and compared to typhi dot test to see which is better and which should be applied in Vietnam.

6.5.2. Should follow the out come of the typhi dot test positive who has negative blood culture to see whether there is any cross reaction to other diseases.