

Thesis Title                      Accuracy in Health Statistic  
Information: A Case Study on  
Morbidity and Mortality of  
Hepatitis B at Chonburi Province

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Date of Graduation                19 May B.E. 2537 (1994)

#### ABSTRACT

A Retrospective descriptive study of the reliability of hepatitis B cases reported to Chonburi provincial health office (CPHO) in 1993 found that there were 24 cases reported from 12 hospitals ,8 from Chonburi province and 4 from other provinces. Only 19 medical records of these cases could be found (79.17%) and they fit with the definition only 3 cases (15.79%) so there were some error of hepatitis B cases reported to CPHO.

Further study were carried out to identify the actual number of hepatitis B cases in Chonburi province in the year 1993 by checking at the result of hepatitis B surface antigen (HBsAg) positive cases from the log book of 22 hospitals laboratory and looked for those who fit with the definition by checking at the inpatient or outpatient medical records. Those who came for routine check up or antenatal care were excluded.

There were 1,161 medical records could be found with HBsAg positive and only 133 cases fit with the definition of hepatitis B, 84 were outpatients and 49 were inpatients. There were no death from hepatitis B in 1993 , the prevalence of hepatitis B was 8.14 (100,000 patients) in 1993, so there were discrepancy of hepatitis B cases reported to CPHO 20 cases from Chonburi province (reported only Chonburi province 20 cases) and but the actual number of hepatitis B cases in Chonburi province was 133 cases and so on under the surveillance system in Chonburi province the reliability of the reported hepatitis B cases of Chonburi province only was 2 out of 18 cases (2 patient medical records could not be found) reported (11.11%).

There were 20 cases reported to CPHO by 506 cards but the actual number found was 133 which could be identified from the 22 hospitals only (not the private clinics or health centers which were not studied and could be more) , so the ratio of reported and the actual number is  $20 : 133 = 1 : 6.65$  , which may be due to missing of medical records, no definite guide line for health personnel to report properly, miss attitude and miss understanding of health personnel to use 506 and 507 report card.