ABSTRACT

Objective: The purpose of this analytic observational study was to find correlation between clinical manifestations and clinical outcomes of typhoid fever patients and type of *Salmonella typhi* strain that are Non MDR and MDR in the period of 2012-2014 at Dr. Soetomo Hospital.

Method: This research using cohort retrospective design on correlation between patient clinical with typhoid fever caused by *Salmonella typhi* strain Non MDR and MDR toward antibiotic in Dr. Soetomo Regional Hospital Surabaya. Laboratory date were compiled from Clinical Microbiology Instalation while clinical manifestations and clinical outcomes data were compiled from Medical Record Unit at Dr. Soetomo Hospital.

Result: During the period of the study there were 30 records belong to Non MDR *Salmonella typhi* and 30 records belong to MDR *Salmonella typhi*. Cross tabulation analysis showed significant different in patient age (*p value* = 0.008), anorexia (*p value* = 0.002), nausea (*p value* = 0.038), vomiting (*p value* = 0.037), abdominal distension (*p value* = 0.028), constipation (*p value* = 0.000), dirty tongue (*p value* = 0.000), diarrhea (*p value* = 0.038), length of treatment (*p value* = 0,000) and discharge condition (*p value* = 0.035) between the two groups.

Conclusion: It could be concluded that clinical manifestations and clinical outcomes of typhoid fever patients have correlations with the type of *Salmonella typhi* strain that are Non MDR and MDR.

Keyword(s): Typhoid fever, clinical outcomes, Non MDR *Salmonella typhi*, MDR *Salmonella typhi*. 