

Nontyphoidal Salmonella Infection Associated with Risk of Retinal Disorders

¹Department of Ophthalmology, Kaohsiung Veterans General Hospital, Kaohsiung, Taiwan

²Management Office for Health Data, China Medical University Hospital, Taichung 40447, Taiwan

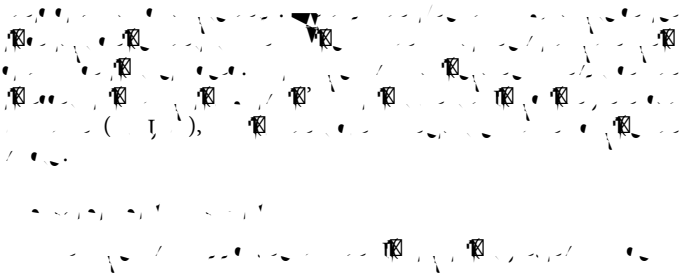
³Department of Internal Medicine, Kaohsiung Municipal United Hospital, Taiwan

⁴Department of Emergency Medicine, Kaohsiung Veterans General Hospital, Kaohsiung, Taiwan

The aim of this study was to investigate the relationship between nontyphoidal salmonellosis (NTS) and new-onset retinal diseases.

We conducted a 13-year nationwide, population-based, retrospective cohort study to examine the association between the history of NTS and risk of retinal diseases by using the Longitudinal Health Insurance Database (LHID) of Taiwan. The NTS cohort included 636 patients with newly diagnosed NTS who were older than 30 years old and recruited between 2000 and 2012. Each patient was propensity score matching with 1:4 person without NTS (N=2544) from the LHID. To determine the occurrence of retinal diseases, the study population was followed up after adjusting for age, gender, and medical comorbidities, Cox regression was adopted to assess hazard ratios (HRs)

The adjusted HR for newly diagnosed retinal diseases in the NTS cohort was 1.15 (95% CI= 1.05 to 1.26) for NTS among aged older than 61 years old. Risk of the retinal diseases was also 1.64 (95% CI = 1.04 to 2.58) for NTS among aged older than 61 years old. Risk of the retinal diseases was also



Eye as a Window to Systemic Infectious Diseases: Old Enemies, New Imaging.
J Clin Med 8:1392.

19. Fonollosa A, Giralt J, Pelegrin L (2009) Ocular syphilis—back again: understanding recent increases in the incidence of ocular syphilitic disease.
20. Albert DM, Raven ML (2016) Ocular Tuberculosis. *Microbiol Spectr* 4:10.1128/