DETECTION OF HEARING IMPAIRMENT ASSOCIATED WITH POSITIVE RUBELLA ANTIBODY TEST IN WAHIDIN SUDIROHUSODO HOSPITAL AMONG NOVEMBER 2016 TO JUNE 2019

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INTRODUCTION
Rubella infection can affect several organs and cause birth defects that are responsible for congenital rubella syndrome (CRS). Infants with CRS often present with more than 1 sign or symptom consistent with congenital rubella infection. However, infants may present with a single defect, with hearing impairment being the most common single defect. (1) (2) (3)

OBJECTIVE
To perform the screening of hearing impairment using OAE test and its correlation to rubella antibody test IgG and IgM.

MATERIAL AND METHOD
The data were conducted using comprehensive search from medical record department in Wahidin Sudirohusodo Hospital from November 2016 through June 2019. Inclusion criteria were those who tested OAE and undergoing screening rubella antibody test.

RESULT
The total sample were 58 ears which consist the result by OAE test with 30 pass (51.7%) and 28 refer (48.3%). Among these ears there were 5 pass and 17 refer with Rubella antibody IgG positive IgM positive, 19 pass and 9 refer with Rubella antibody IgG positive IgM negative, 4 pass and 0 refer with Rubella antibody IgG negative IgM negative, and 0 pass and 2 refer with Rubella antibody IgG negative and IgM positive.

CONCLUSION
The results of the screening showed that patients who had hearing impairment according to the OAE test results refer within Rubella antibody IgG positive, IgM positive as many as 17 out of 23 ears (77.3 %). For further examination should be perform BERA and ASSR to plan the using of hearing aid or cochlear implant.

Reference