DIFFERENCES AMONG HIV-EXPOSED UNINFECTED AND HIV-UNEXPOSED INFANTS IN DR SOETOMO GENERAL HOSPITAL

<u>Hapsari Widya Ningtiar</u>, Leny Kartina, Dwiyanti Puspitasari, Dominicus Husada, Parwati SetionoBasuki, Ismoedijanto

Department of Child Health Faculty of Medicine, UniversitasAirlangga / Dr.Soetomo General Hospital Surabaya, Indonesia

Background:Prevention of mother-to-child HIV transmission programs producing numbers of HIV-exposed uninfected infant. Researches have been done in the field, suggesting that these infants may have increased infectious morbidity and impaired growth compared with HIV-unexposed infants. The objective of this study is to compare infectious morbidity, growthanddevelopment, incidenceof anemia in HIV-exposeduninfectedwith HIV-unexposedinfants.

Method:Thiscasecontrol studyrecruited0-18 months old infantsandwasclassified as case (HIV-exposed uninfectedinfantsatoutpatientclinic) and control group (HIV unexposedinfantsadmitted as acuteillnes)atDrSoetomo General Hospital fromJanuaryto April 2017. Paired datawere matchedon age and gender.Chisquaretestanalysis was performed to compare the outcomebetween two groups.

Results:There were 37 HIV-exposed uninfected infants unexposed infants. Female (51.4%) slightly outnumber male. Birthweight (P=0.425). immunization (P=0.451) were not differentbetweengroups. Gestationalage over 38 (97.3vs81.1, P=0.025), spontaneousdelivery (29.7vs71.1; historyofbreastfeeding (2.7vs86.5; P<0.001) wassignificantdifferentbetweengroups. Incidence of anemia (P=0.816), WAZ-score (P=0.580), LAZ-score (P=0.081), WLZscore (P=0.522), anddevelopmenttestusingDenver II (P=1.000), diarrhea (P=0.077), anddypsnea(P=0.152) cough (P=1.000). were similarbetweengroupswhiletheincidenceoffever P=0.011) (16.2vs0, were significantlydifferent.

Conclusion: The incidenceoffeverwashigheramong HIV-exposeduninfectedinfantswhilegrowthanddevelopment, incidenceof anemia, diarrhea, cough, anddyspnea parameter were similar.

Keywords: HIV-exposed uninfectedinfant; HIV-unexposed infant; outcomes.