HUMAN CYTOMEGALOVIRUS gB1 GENOTYPES AMONG CHILDREN WHO LIVE AT THE PHAYATHAI BABIES’ HOME IN NONTHABURI, THAILAND

Saowakon Paca-uccaralertkun¹, Rungnapa Hiatt¹, Rujee Leecharoen¹, Peerapan Tan-ariya¹, Mathirut Mungthin² and Sureeporn Pongphong³

¹Department of Microbiology, Faculty of Science, Mahidol University; ²Department of Parasitology, ³Department of Pathology, Phramongkutklao College of Medicine, Bangkok, Thailand

Abstract. We conducted a survey of human cytomegalovirus (HCMV) genotypes among 176 children aged 1 month to 5 years living at Phayathai Babies’ Home in Nonthaburi Province, Thailand to determine the prevalence of HCMV glycoprotein B (gB) genotype. The study was conducted on urine samples using nested polymerase chain reaction and restriction fragment length polymorphism; the HCMV gB1 genotype was found in 89% of subjects, much higher than previous reports. Our results show a high proportion of HCMV gB1 infected children in this population.

Keywords: HCMV, children, genotype, Thailand