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Metrics visibility 334 views get\_app 474 downloads Insecticides resistance has spread rapidly among dengue vectors from Central Java, and require an effective insecticide resistance management strategies.one of the resistance mechanism in *Aedes aegypti* may arise through knockdown resistance or *kdr* which consists of single point mutation within the genes that are targeted by insecticide compounds. Mutation at position 1016 in domain II, segment 6 of the Voltage Gated Sodium Channel gene in *Ae. aegypti* leads to a valine to glycine substitution (V1016G) is associated with resistance to the type II pyrethroid. The result of this study will help us to strengthen basic and operational research on the development of strategies for Dengue vector control in Indonesia. This study utilized an allele-specific Polymerase Chain Reaction (ASPCR) assay that could be used to detect the V1016G mutation. The assay was conducted on 22 female mosquitoes aged 2–5 days old. The result showed there were 22,7% wild type mosquito (V/V), 59,1% heterozygous for V1016G mutation (V/G) and 18,2% V1016G mutant homozygous (G/G). It indicated synthetic pyrethroid resistance in *Ae. aegypti* population caused by knockdown resistance mechanism. Speiser PW, White PC. Congenital adrenal hyperplasia. *N Eng J Med* 2003;349:776-88. White PC, Speiser PW. Congenital adrenal hyperplasia due to 21-hydroxylase deficiency. *Endocr Rev* 2000;21:245-91. Pulungan AB, Siregar CD, Aditiawati, Soenggoro EP, Triningsih E, Suryawan IWB, dkk. Korteks adrenal dan gangguannya. Dalam: Batubara JRL, Tridjaja B, Pulungan AB, penyunting. Buku ajar endokrinologi anak. Edisi ke-1. Jakarta: Badan Penerbit Ikatan Dokter Anak Indonesia; 2010. h.251-95. Speiser P, Azziz R, Baskin L, Ghizzoni L, Hensle TW, Merke DP, dkk. Congenital adrenal hyperplasia due to steroid 21-hydroxylase deficiency: an Endocrine Society clinical practice guideline. *J Clin Endocrinol Metab* 2010;95:4133-60. 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