## Serum butyrylcholinesterase variants in Santiago Eastern District population Variantes de butirilcolinesterasa sérica en población de Santiago Oriente

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Background: Succinylcholine causes prolonged apneas in a proportion if subjects that have genetical defect of butyrylcholinesterase, due to the presence of unusual alleles in the locus BCHE. Aim: To estimate allele frequencies of three variants of serum butyrylcholinesterase, BCHE\*U, BCHE\*A and BCHE\*F in an urban population of Santiago, Chile. Subjects and methods: Different phenotypes for the locus BCHE were determined in 300 blood samples coming from patients of a private clinical laboratory. The population was formed by an admixture of Amerindian and European (mostly Spanish) people. Results: The frequency of BCHE\*A was similar to that expected for this population, but BCHE\*F frequency was greater than predicted. Eight subjects had the genotype BCHE AK. Conclusions: The higher frequency found for BCHE\*F is probably due to the use of more precise detection techniques. Although the used method cannot distinguish BCHE UK from BCHE UU, the finding of individuals with BCHE AK, must lead