*The prevalence of human leukocyte antigen-B*57:01 allele in HIV-1-infected Moroccan subjects*

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Poster presentation abstract

Abstract

Introduction: Human leukocyte antigen (*HLA)-B*57:01* allele has a strong relationship with developing a hypersensitivity reaction (HSR) to abacavir (ABC). It is a well-known pharmacogenetics marker for ABC HSR. The contribution of this allele in the Moroccan HIV-1 infected patients has not been established.

Objective: The purpose of our study is to estimate the prevalence of *HLA-B*57:01* in Moroccan HIV-1 infected patients and to evaluate *HLA-B*57:01* relationship with ABC HSR

Materials and methods: A total of 166 cases are enrolled in the present study and filled in questioner about demographic and clinic factors. All cases were infected by HIV-1. Their DNA samples was isolated from peripheral blood and *HLA-B*57:01*, was genotyped by a sequence specific primer PCR.

Results: From the results obtained, we can conclude that the HLA-B * 57: 01 allele is not a common allele in Moroccans (none of HIV-infected patients expressed *HLA-B*5701*. *HLA-B*57:01* allele), therefore hypersensitivity to abacavir appears to be rare in this population. The prescribing of ABC may don't have a risk of hypersensitivity reaction for HIV infected patients and the use routine testing for *HLA-B * 57:01* would not be a cost-effective and efficient strategy in Morocco.

Keywords: HIV, HLA-B*57:01 allele, Abacavir, Morocco, Hypersensitivity reaction.