The frequency of Factor V G1691A (Leiden) mutation in Iraqi Turks

Irak Türklerinde Faktör V G1691A (Leiden) mutasyon sıklığı

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To the Editor,

Factor V Leiden (FVL) mutation (G1691A) is a risk factor for the development of venous thromboembolic disorders. Hereditary disorders that predispose to thrombosis include antithrombin, protein C, and protein S deficiency, as well as such hereditary defects as Factor V G1691A (Leiden) (FVL) and prothrombin G20210A mutation [1,2]. FVL causes activated protein C resistance and is the most common thrombophilic mutation worldwide [3,4]; however, to the best of our knowledge the frequency of FVL in Iraqi Turks has not been reported.

Iraqi Turks currently live primarily in northern Iraq and are descendants of the Oghuz Turks that originated in Central Asia. The study group included 84 unrelated Iraqi Turks from northern Iraq; 40 from Kirkuk, 20 from Mosul, 10 from Arbil, 10 from Baghdad, and 4 from the Diala and Tikrit regions. Following the receipt of informed consent from all the participants, blood samples were collected into tubes containing EDTA and transferred to the laboratory, and then DNA was extracted from peripheral blood leukocytes according to the phenol-chloroform method. The prevalence of FVL was determined using real-time PCR (RT-PCR), as previously described [5]. In all, 4 (4.8%) of the 84 participants were diagnosed as FVL carriers and the frequency of FVL was 0.0238% among Turks living in Iraq. Several studies on FVL mutation in the Turkish population have been published and the prevalences reported ranged from 4% to 12.2% [6]. The prevalence of FVL among Turkish Cypriots was reported as 12.2% versus 7.9% in Turkey [6,7]. The prevalence of FVL is 3%-10% in Europeans, but FVL mutation is rare in East and Southeast Asians [3,4].

The present study’s results show that the prevalence of FVL in Iraqi Turks is similar to that in the general Caucasian population.

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Conflict of interest statement
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References


