

Thrombophilic risk factors for Retinal Vein Occlusion

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Abstract



The aim is to study risk factors for retinal vein occlusion (RVO), such as thrombophilic and cardiovascular risk factors (CRF). A retrospective consecutive case series of 60 patients with RVO was made, tested for CRF, hyperhomocysteinemia, lupic anticoagulant, antiphospholipid antibody and 5 gene variants: factor V (FV) Leiden (G1691A), factor II (PT G20210A), 5,1-methylenetetra-hydrofolate reductase (MTHFR; 677 C > T and 1298 A > C), plasminogen activator inhibitor 1 (PAI-1; 4 G/5 G). More than 1 CRF were present in 36 patients (60%), which had a significantly higher mean age at diagnosis (66.7 ± 12.9 versus 59.5 ± 13.7 with ≤ 1 CRF, [t(57) = -2.05, p = 0.045, d = 0.54). Patients with thermolabile MTHFR forms with decreased enzyme activity (T677T or C677T/A1298C) had a significant lower mean age [57.6 ± 15.1; t (58) = 3.32; p = 0.002; d = 0.846] than patients with normal MTHFR enzyme activity (68.5 ± 10.2). Regarding CRF and thermolabile forms of MTHFR, the mean age at diagnosis could be significantly predicted [F (2,56) = 7.18; p = 0.002] by the equation: 64.8 – 10.3 × (thermolabile MTHFR) – 5.31 × (≤ 1CRF). Screening of MTHFR polymorphisms may be useful in younger RVO patients, particularly when multiple CRF are absent.

Biography:

Maria J Vieira has completed her MD degree at the age of 25 years from Minho University, Portugal. She is a 2nd year resident of Ophthalmology in "Centro Hospitalar de Leiria", Portugal. She has 2 international publications as 1st author.

Recent Publications:

- 1. Development and application of Peptide Nucleic Acid Fluorescence in situ Hybridization for the specific detection of Listeria monocytogenes
- 2. Morphological transition of Helicobacter pylori adapted to water
- 3. A new colorimetric peptide nucleic acid-based assay for the specific detection of bacteria
- 4. Water-induced modulation of Helicobacter pylori virulence factors
- 5. Genome Sequence of Serratia plymuthica V4



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