

Assessment of environmental AMD risk factors in a population of patients suffering from stroke and myocardial infarction

Catherine P. Garcher, Frédéric Nicot, Brice Dugas, Niyazi Acar, Lionel Brétillon, Maurice Giroud, Marianne Zeller, Alain M. Bron

▶ To cite this version:

Catherine P. Garcher, Frédéric Nicot, Brice Dugas, Niyazi Acar, Lionel Brétillon, et al.. Assessment of environmental AMD risk factors in a population of patients suffering from stroke and myocardial infarction. Association for Research in Vision and Ophthalmology annual congress, May 2009, Fort Lauderdale, Florida, United States. pp.E-Abstract 540. hal-01000585

HAL Id: hal-01000585 https://hal.science/hal-01000585

Submitted on 3 Jun2020

HAL is a multi-disciplinary open access archive for the deposit and dissemination of scientific research documents, whether they are published or not. The documents may come from teaching and research institutions in France or abroad, or from public or private research centers. L'archive ouverte pluridisciplinaire **HAL**, est destinée au dépôt et à la diffusion de documents scientifiques de niveau recherche, publiés ou non, émanant des établissements d'enseignement et de recherche français ou étrangers, des laboratoires publics ou privés.

540-A221

Assessment of Environmental AMD Risk Factors in a Population of Patients Suffering From Stroke and Myocardial Infarction

C. P. Garcher^{1A,2}, F. Nicot, III^{1A}, B. Dugas, Jr.^{1A,2}, N. Acar², L. Bretillon², M. Giroud^{1B}, M. Zeller^{1C} and A. M. Bron^{1A,2}

^AOphthalmology, ^BNeurology, ^CCardiology, ¹University Hospital, Dijon, France ²INRA, University of Burgundy, Eye & Nutrition Research Group, Dijon Cedex, France

Commercial Relationships: C.P. Garcher, None; F. Nicot, III, None; B. Dugas, Jr., None; N. Acar, None; L. Bretillon, None; M. Giroud, None; M. Zeller, None; A.M. Bron, None.

Support: Baush and Lomb, Regional Council of Burgundy

Abstract

Purpose:Stroke and myocardial infarction are common diseases occurring in patients suffering from Age Macular Degeneration (AMD). We assessed the rate of AMD and AMD risk factors in patients suffering from recent stroke or myocardial infarction.

<u>Methods</u>:Patients suffering from a recent stroke or myocardial infarction (less than 1 month) benefited from a thorough ophthalmic examination with the following measurements and evaluations: visual acuity, intraocular pressure, fundus photography, Raman spectroscopy and macular OCT. In the same time a food questionnaire was dispensed. Finally, blood samples to measure fatty acids and lutein were performed.

<u>Results:</u>74 patients were examined, 31 females and 43 males. The age of the patients was 65 ± 10 years, [47-90]. The rates of stage 2 and 3 AMD were 25.7 % and 13.5 % respectively (n=19, n=10). Raman spectroscopy did not differ between groups, p=0.83. Central retina thickness was increased in the AMD group, $250\pm37 \mu$ versus $222\pm35 \mu$, p=0.04. The fatty acid profile and lutein in blood did not differ between patients with or without AMD, p=0.7 and p=0.21, respectively. The overall omega 6/ omega 3 ratio was 4.64 ± 0.97 in our population.

<u>Conclusions</u>: The rate of AMD risk factors does not seem to be increased in the patients suffering from AMD in this population of patients suffering from stroke and myocardial infarction. A longitudinal study is needed to confirm these results.

Keywords: age-related macular degeneration • nutritional factors • clinical (human) or epidemiologic studies: risk factor assessment

© 2010, The Association for Research in Vision and Ophthalmology, Inc., all rights reserved. Permission to republish any abstract or part of an abstract in any form must be obtained in writing from the ARVO Office prior to publication.