Physical exertion at work and addictive behaviors: tobacco, cannabis, alcohol, sugar and fat consumption: longitudinal analyses in the CONSTANCES cohort

Nadine Hamieh1,*, Ph.D., Alexis Descatha2,3, M.D., Ph.D., Marie Zins4,5, M.D., Ph.D., Marcel Goldberg4,5, M.D., Ph.D., Sébastien Czernichow5,6, M.D., Ph.D., Marie Plessz7, Ph.D., Yves Roquelaure8,9, M.D., Ph.D., Cedric Lemogne5,10, M.D., Ph.D, Joane Matta4, Ph.D., Guillaume Airagnes1,4,5, M.D., Ph.D.

1AP-HP.Centre-Université de Paris, DMU Psychiatrie et Addictologie, Paris, France
2Poison Control Center, Academic Hospital CHU Angers, F-49000, Angers, France
3University of Angers, Centre Hospitalier Universitaire d'Angers, Université de Rennes, INSERM, École des hautes études en santé publique, Institut de recherche en santé, environnement et travail UMR_S 1085, F-49000 Angers, France
4INSERM, Population-based Epidemiological Cohorts Unit, UMS 011, Villejuif, France
5Université de Paris, Faculty of Health, School of Medicine, Paris, France
6AP-HP.Centre-Université de Paris, Hôpital européen Georges-Pompidou, Service de Nutrition, Paris, France
7INRAE, Centre Maurice Halbwachs (ENS, EHESS, CNRS) UMR 8097, Paris, France
8University of Angers, Centre Hospitalier Universitaire d'Angers, Université de Rennes, Centre de consultations de pathologie professionnelle et santé au travail, F-49000 Angers, France
9INSERM, EHESP, Irset - UMR_S 1085, University of Angers, Université de Rennes, F-49000, Angers, France
10Université de Paris, AP-HP, Hôpital Hôtel-Dieu, DMU Psychiatrie et Addictologie, Service de Psychiatrie de l’adulte, INSERM, Institut de Psychiatrie et Neurosciences de Paris (IPNP), UMR_S1266, Paris, France

* Presenting author:
Nadine Hamieh, Ph.D.
AP-HP.Centre-Université de Paris
DMU Psychiatrie et Addictologie
20 rue Leblanc
75015 Paris, France
Email: nadine.hamieh@inserm.fr
Tel: +33 (0) 6 66 88 38 03
ABSTRACT

Objectives: This study examined the prospective association of physical exertion at work with risk of tobacco, cannabis, alcohol use and sugar and fat consumption.

Materials and methods: Volunteers of the French population-based CONSTANCES cohort currently employed were included from 2012 to 2017 for tobacco and cannabis outcomes (n=100,612), and from 2012 to 2016 for alcohol and sugar and fat outcomes (n=75,414). High level of physical exertion was defined as a score ≥12 at the Rating Perceived Exertion Borg scale. Substance use was self-reported and patterns of sugar and fat intakes were obtained from principal component analysis and used in quartiles. Generalized linear models computed odds of substance use and sugar and fat consumption at follow-up according to baseline physical exertion at work, while adjusting for sociodemographic factors, depressive symptoms and baseline level of consumption.

Results and conclusions: High physical exertion was associated with tobacco use, i.e.: increased odd of relapse in former smokers (OR:1.13, 95% confidence Interval (CI):1.02-1.24), and increased number of cigarettes per day in current smokers (OR:1.54, 95%CI:1.33-1.78) with dose-dependent relationships (P for trend<0.001). It was also associated with increased odd of cannabis use at least once per month compared to no use in the past year (OR:1.31, 95%CI:1.03-1.66) and with increased odds of sugar and fat consumption (OR:1.06, 95%CI:1.01-1.11 and OR:1.13, 95%CI:1.07-1.18, for third and fourth quartiles compared to the first, respectively). As a conclusion, the associations between physical exertion at work and subsequent tobacco and cannabis use and sugar and fat consumption should be taken into account for information and prevention strategies.

TYPE OF PRESENTATION

Oral presentation

CONFLICTS OF INTEREST

Guillaume Airagnes declares personal fees from Lundbeck and Pfizer, outside the submitted work.
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