Impact of alcohol advertising content and warnings format on young adults: An fMRI study protocol

K. Gallopel-Morvan1, Q. Duché2, E. Bannier2,3, J.F. Diout4, R. Moirand5, S. Lacoste-Badie6, O. Droulers4

1.EHESP School of Public Health, EA 7348 MOS, Rennes, France; 2.Université Rennes, Inria, CNRS, Inserm, IRISA, EMPENN ERL U1228, F-35000, Rennes, France; 3.CHI Rennes, Service de Radiologie, Rennes, France; 4.Université Rennes 1, IGR-IAE de Rennes, CREM (UMR CNRS 6211), Rennes, France; 5. Université Rennes 1, INRAE, INSERM, CHU Rennes, Institut NUMECA (Nutrition Metabolism and Cancer), Unité d’Addictologie, Rennes, France; 6. Université Lille, CNRS, LEM (Lille Economie Management) - UMR 9221, Lille, France

Context

The Evin Law (1991)

Prohibits advertising for alcohol in media targeting young people

Regulatory content in authorized media (only factual/informative data and objective qualities of alcohol products)

Requires the warning message “alcohol abuse is dangerous for health” to be included in all alcohol advertisements.

Such restrictions/laws on alcohol advertising have been adopted by more than 50 countries worldwide (WHO, 2018)

Literature

• Many studies showed that exposure to alcohol advertising (through media) is associated with early consumption initiation, increased alcohol use and binge drinking patterns among young people, especially minors
• Although alcohol advertising content regulation has been adopted in many countries, its effects remain under-investigated
• Most studies on alcohol marketing have used self-report methods that present limits (neglecting the unconscious reactions involved in different subsystems and/or being influenced by social desirability)

The protocol described here has two objectives

(i) to understand better how different alcohol advertising contents influence young people
(ii) to find out whether displaying pictorial warnings on ads, compared to text-only messages, can counteract the effect of attractive contents.

Method

Declarative measurements (behavioural responses) combined with functional magnetic resonance imaging (fMRI) to investigate the neural basis of ad and warning perception

The protocol, designed to assess the effect of various alcohol advertising contents that display different warning formats, comprises six steps:

(i) Preliminary studies on 215 individuals to select alcohol categories, brands and warning message
(ii) Creation of 288 ads (stimuli) for alcohol brands (neutral vs. attractive ads: party or sport contexts with no characters vs. characters vs. celebrities in the background) and for water ads (control group)
(iii) Selection and recruitment of the 78 participants (male, aged 18–25, of ranging drinking status)
(iv) The fMRI scanning session (2 hours)
(v) Image acquisition and processing
(vi) Data analysis

Contributions and limitations

• This research investigates the neural basis and behavioural effects of various alcohol advertising contents & warning formats
• This research combines declarative measurements with functional magnetic resonance imaging (fMRI)
• This study will support policy developments related to restriction of alcohol advertising and warnings
• Limitations: due to material constraints, the sample size is relatively “modest”; no follow-up of subjects is planned after the fMRI scanning session

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