Canary Islands cardiologists’ attitudes toward alcohol and cardiovascular health

Sohaib Haseeb1, Juan Lacalzada-Almeida2, Antonio Barragan2, Ricardo López-Santi3, Alejandro Cuesta4, and Adrian Baranchuk5

1College of Medicine and Dentistry, James Cook University, Townsville, Queensland, Australia; 2Department of Cardiology, Hospital Universitario de Canarias, Tenerife, Spain; 3Cardiology Service, Hospital Italiano de La Plata, Buenos Aires, Argentina; 4Cardiology Service, Centro Cardiovascular Universitario, Hospital de Clínicas, Montevideo, Uruguay; 5Division of Cardiology, Queen’s University, Kingston, Ontario, Canada

Alcohol consumption constitutes a major part of Western culture. The World Health Organization estimated that alcohol is consumed by more than half of the population in the Americas, Europe, and the West Pacific. Although the adverse effects of alcohol abuse related to physical, mental, and specifically cardiovascular health are well-established, the cardiovascular nature of controlled, light-to-moderate intake remains a topic of debate in the literature. At present, there are limited data on the knowledge of health-care practitioners as it relates to alcohol and its effects on cardiovascular health, and it is limited to the region of Latin America and the Canary Islands in the present analysis. Data were analyzed using the Pearson Chi-squared test or Fisher’s exact and Mann–Whitney U-tests as appropriate, with two-tailed p < 0.05 considered to be statistically significant.

The survey was conducted between January 6, 2019, and February 16, 2019, with 79 of 115 (69%) cardiologists in the Canary Islands responding. Among these, 69 were attending cardiologists and 10 were advanced cardiology trainees. The majority of respondents were male (67%; 53/79), and 87% (69/79) worked in an academic setting. The characteristics of the study population are described in Table 1 with comparison to Latin American cardiologists (response rate 54%) from Argentina (n = 745) and Uruguay (n = 298). Overall, respondents from the Canary Islands showed a mixed view regarding the appropriateness of drinking guidelines. Questions were derived from our previously conducted surveys in Argentina and Uruguay, and the responses of these Latin American countries are compared with the Canary Islands in the present analysis.
had other opinions. Respondents from both the Canary Islands and Latin America held similarly mixed views (p = 0.165) on this topic (Table 1). Furthermore, our survey showed that respondents from the Canary Islands were not satisfied with their self-reported knowledge of drinking guidelines (0 = not satisfied,
There were no significant differences in response between the Canary Islands and Latin American respondents ($p = 0.561$). Despite this, respondents from the Canary Islands reported that they were relatively comfortable in counseling patients regarding the safe limits of alcohol consumption ($5.56 \pm 2.70$), similar to the Latin American ($6.01 \pm 3.18$) respondents ($p = 0.164$). Concerning the knowledge of drinking metrics, particularly "standard drink" (SD), 61% (48/79) of the Canary Islands respondents were aware of the concept, but they were largely not comfortable in converting SD to other metric units ($2.09 \pm 2.48$). More than half (65%; 51/79) believed that drinking guidelines were not well known to healthcare practitioners, and 93% (73/79) preferred drinking guidelines to be standardized across countries. Region-specific comparison of responses regarding knowledge of drinking metrics and guidelines is summarized in Table 1. Notably, there were many academic and non-academic sources from which respondents obtained their knowledge on this topic among both regions (Fig. 1).

Our findings suggest that there are opportunities for targeted promotion and education at both the individual and systems levels of health care on the benefits and detriments of alcohol as it relates to cardiovascular health. The relationship between alcohol and health remains complex, and it is influenced by culture, religion, health context, and societal trends. Evidence from a subanalysis of an internet-based, longitudinal, cardiovascular cohort study suggested that the vast majority of lay participants who viewed alcohol as "heart" healthy cited the press as their source of knowledge. Given the considerable equipoise on the issue of alcohol and cardiovascular health, it is important to understand the attitudes of our health-care practitioners as they may play a role in medical advice. Our survey found that the knowledge and understanding of drinking guidelines among cardiologists from the Canary Islands and Latin America are low. Drinking guidelines have been defined in at least 37 countries, and there are cross-national variations in the consumption limits, SD metrics, and low-risk thresholds. These discrepancies have the potential to inappropriately influence behavior, and therefore, drinking guidelines that define clear thresholds should be discussed in training in a proactive manner.

Our study is limited by its cross-sectional design and reliance on self-reported data. Furthermore, the sample size of the Canary Islands population was limited ($n = 79$). This small sample size reduces the statistical power of the comparisons made between the two geographical areas of interest. Although the two respondent groups had similar perceptions, it is important to highlight the differences between the cardiologists residing in the Canary Islands and in Latin America, mainly in age and academic versus non-academic workplace setting. Another limitation is that responses...
from cardiologists from the Canary Islands do not represent (necessarily) the view of the Spaniard cardiologists from continental Spain. Our survey demonstrates the considerable variability in the perceptions and sources of knowledge of cardiologists concerning alcohol and its effects on cardiovascular health. Future work should address how these patterns in attitudes compare between North American and continental European health-care practitioners.

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Conflicts of interest

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Ethical disclosures

Protection of human and animal subjects. The authors declare that the procedures followed were in accordance with the regulations of the relevant clinical research ethics committee and with those of the Code of Ethics of the World Medical Association (Declaration of Helsinki).

Confidentiality of data. The authors declare that no patient data appear in this article.

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