Response to Letter Regarding Article, “Habitual Coffee Consumption and Risk of Heart Failure: A Dose-Response Meta-Analysis”
We thank Dr Palatini for his discussion of how the relationship between coffee consumption and heart failure may be impacted by the CYP1A2 gene. As we noted1, previous studies have shown that the CYP1A2 gene modifies the association between coffee consumption and myocardial infarction. We agree that further research is necessary to examine whether the presence of certain polymorphisms also modify the risk of developing heart failure. In our meta-analysis, we summarized the findings from 5 studies that showed only moderate between-study heterogeneity (I²=37.5%); only one2 of the included studies reported an increased risk of heart failure with higher levels of coffee consumption, but it did not include adjustment for any potential confounders. It is possible that the results were consistent because all the included studies were conducted in Sweden and Finland, countries that may have a similar prevalence of allele frequencies for the CYPIA2 gene. Further work is needed to examine whether the relationship is affected by gene and environment interactions.

Disclosures
None.

References
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