

Socioeconomic Position and Mortality-Reply

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1 In Reply: 2 3 In response to our study, Drs Gonzalez-Santiago and Balderas-Renteria highlight the 4 importance of air pollution as an explanatory factor for social inequalities in health. 5 Similarly, Dr Gross raises the possibility of psychological distress as a factor. We agree with 6 these possibilities; indeed, there are multiple pathways linking socioeconomic position to 7 health. 8 9 The Black Report, commissioned by the Department of Health in the United Kingdom in 1977, was the first comprehensive review of evidence in this domain. It identified 4 10 11 theoretical explanations for social inequalities: artifactual, natural or social selection. 12 materialist/structural, and cultural/behavioral. Subsequent research has attempted to examine (and promote) the relative importance of one pathway over another, with little consensus.² In 13 14 the last decade or so, there has been a surge of interest in neighborhood studies, with 15 increasing recognition of the methodological challenges and the need to identify the causal chain linking exposure to outcome.³ Exposure to environmental toxins and air pollution, is 16 17 likely to contribute to health disparities. Unfortunately, we have no data on air pollution. 18 However, the extent to which these factors explain the monotonic association between 19 socioeconomic position and mortality in high income countries with tighter regulatory 20 controls on the one hand and access to universal health care on the other remains unclear. 21 22 The principal conclusion of our study was that the effect of health behaviors in explaining 23 social inequalities in health is greater when they are assessed longitudinally (42 %

longitudinal assessment compared to 72% for baseline adjustment for all-cause mortality).

We were careful not to draw conclusions about their relative importance in relation to other

- 26 possible explanations of social inequalities. We accept Gross's assessment of the importance 27 of psychological distress. However, in our data psychological distress measured by the General Health Questionnaire explained only 2% of the association between socioeconomic 28 29 position and all-cause mortality when assessed at baseline (HR for mortality changed from 30 1.60 (1.26 - 2.04) to 1.58 (1.24 - 2.02)) and 5% when assessed longitudinally (adjusted HR 31 1.56 (1.23 - 1.99). The role of psychological factors in influencing health is likely to be 32 complex; 4 and perhaps mediated by health behaviors. 33 The task of modeling repeat measures of psychological factors, behavioral factors, and other 34 possible elements along the causal chain is daunting. However, in order to improve 35 population health and reduce inequalities, elements that can be targeted either in clinical 36 settings or through public health messages and policies need to be identified. So far, the 37 interventions aimed at changing social, behavioral, or psychological factors have produced disappointing results, perhaps due to the short term nature of these studies.⁵ The effect of the 38 39 socioeconomic context on health and well-being develops over the life course. Thus, attempts 40 to delineate the underlying pathways, either in observational studies or randomized controlled 41 trials, need to bear this in mind. Our study, using observational data, demonstrates the 42 importance of a longitudinal follow-up for health behaviors. The challenge now is to take the same approach to other key mediators of the association between socioeconomic position and 43 44 health while attempting to also model the interrelationships between them. 45 Archana Singh-Manoux, PhD 46 47 Silvia Stringhini, MSc silvia.stringhini@inserm.fr 48
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51	Villejuif, France	
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