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## Toward a correct measure of third-hand exposure

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Statement of the Problem: While exposure to secondhand smoke (SHS) is a well-established problem, exposure to third-hand smoke (THS) is scanty known and needs to be studied. The objective of this work is to characterize salivary cotinine concentrations among people who self-reported exposure to SHS and THS at home. Methodology & Dientation: Longitudinal study of a representative sample (n = 736) of the adult population (≥ 16 years) from the city of Barcelona carried out in 2004-2005 and 2013-2014. A questionnaire on tobacco use and passive exposure was administered, and a saliva sample was collected for cotinine determination. For this study, the information of the non-smoker participants who provided saliva sample was used. The geometric means (GM) and geometric standard deviations (GSD) of the cotinine concentration were compared according to the type of self- reported exposure at home: (1) Not exposed to SHS or THS; (2) Exposed to SHS and THS; and (3) Only exposed to THS. We used log-linear models to compare the cotinine concentration of each exposed group with respect to the unexposed group, adjusting for sex, age, educational level, and tobacco exposure in other settings. Findings Our study shows differences in salivary cotinine according to type tobacco smoke exposure at home, being salivary cotinine concentrations higher among SHS and THS, and only THS exposed individuals, when comparing with non-exposed ones. In addition, we found no difference in the salivary cotinine concentrations when comparing SHS and THS exposed individuals with only THS exposed individuals. This pattern was kept in baseline and follow-up. Conclusion & Conclusion & Concentration be a good approximation of the distinctly tobacco exposure between the proposed groups.

## **Biography**

Cristina Lidón is a statistician with more than seven years of experience within the field of biostatistics and epidemiology. She is also a tenured-eligible lectured teaching in biostatistics in health-related degrees. Her research focuses on tobacco, addiction, and risk-taking behaviors. Her main expertise is in tobacco control policies, including smoking behaviors and second- and third-hand smoke, measured by questionnaire and biomarkers. However, her research interests also include self-harm behaviors, and screen exposure.

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