EPIDEMIOLOGIA Impact of COVID-19 pandemic on inequalities in mortality: an analysis in Piedmont and Emilia-Romagna PIEMONTE

regionale

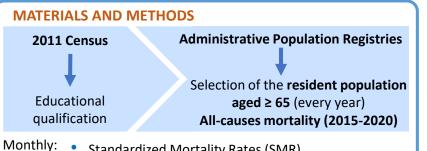
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BACKGROUND

- In Italy, during 2020 there were more than 75,000 excess deaths compared to the average expected mortality in 2015-2019
- Evidence shows a greater burden of disease and mortality attributable to COVID-19 among disadvantaged populations

AIM: To analyse the trend of social inequalities in mortality during the first pandemic year in Piedmont and Emilia-Romagna using data from Administrative Population Registries (APR) and statistical databases



- Standardized Mortality Rates (SMR)
 - **Relative Index of Inequalities (RII)**
 - Slope Index of Inequalities (SII)

Adjusted by age, stratified by gender and region

From March 2020 were forecasted using data from 2015-2019 with Holt-Winters (HW) method and compared to the observed values in the same period

RESULTS

The excess of SMR was confirmed in both regions during the two main pandemic waves (Mach-April and October-December 2020) Absolute inequalities increased among men and women

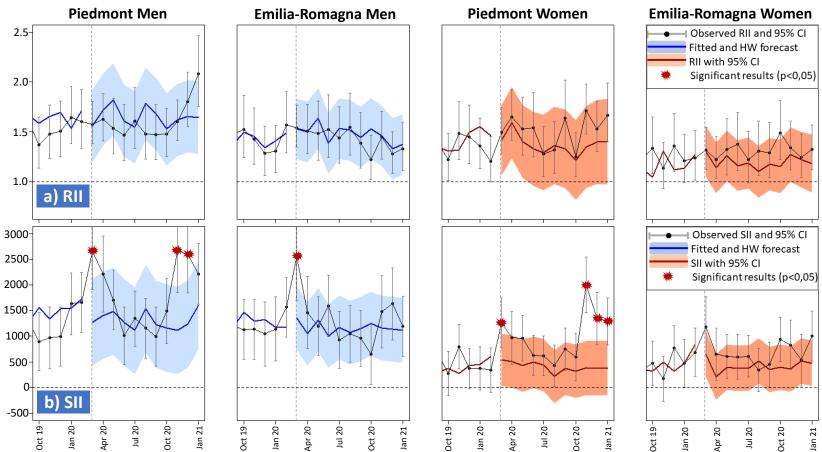


Table 1: Observed, fitted and Holt-Winter (HW) forecast of a) the Relative Index of Inequality (RII) and b) Slope Index of Inequalities (SII) in overall mortality

DISCUSSION AND CONCLUSIONS

- The impact of the pandemic on the inequalities in overall mortality was in relative terms of the same size of other mechanisms of unequal health
- Further analyses are needed to explore the underlying mechanisms (i.e. cause-specific mortality, access to health services)
- Administrative data, linked with Census data, are a reliable source for timely monitoring health inequalities



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