

Supplementary Materials for

Exploring methods for the assessment of temporal trends in mortality and hospitalization in Italian industrially contaminated sites

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Figure 3a-3b

For each year of observation, in each selected NCPS, for both males and females, ratios between mortality rates in the NCPSs and in the reference regions are computed.

Figure 3c-3d

For each year of observation, in each selected NCPS, for both males and females, ratios between hospitalization rates in the NCPSs and in the reference regions are computed.

Figure 4

LOESS curves built on mortality and hospitalization rates, for the two selected causes (General mortality, All natural causes of hospitalization).

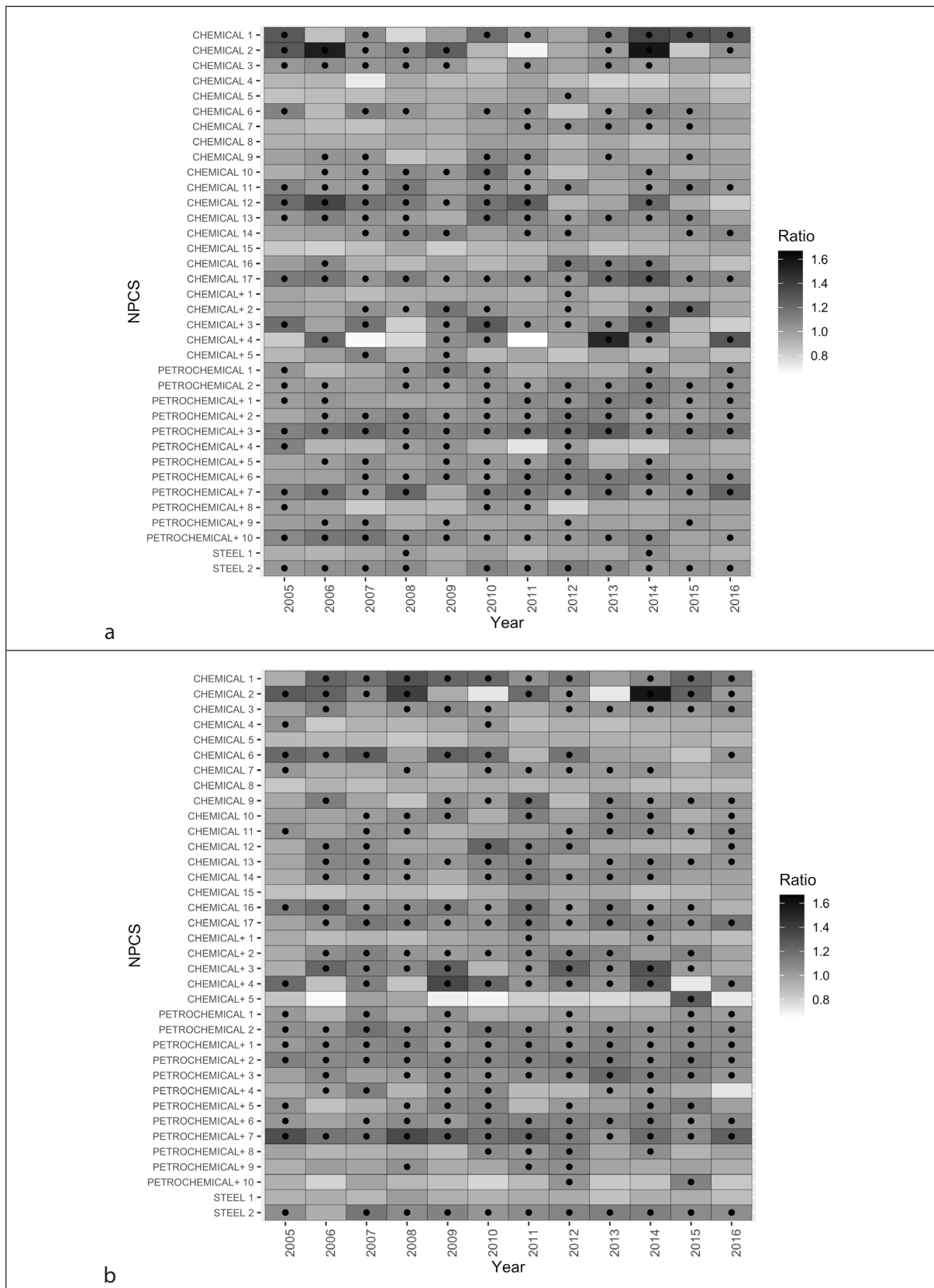


Figure 3a-3b

For each year of observation, in each selected NPCS, for both males and females, ratios between mortality rates in the NPCS and in the reference regions are computed. The shading of each cell depends on the magnitude of the corresponding rate-ratio. Each cell is marked by a dot if the corresponding ratio exceeds the threshold 1, reporting a risk excess in the site.

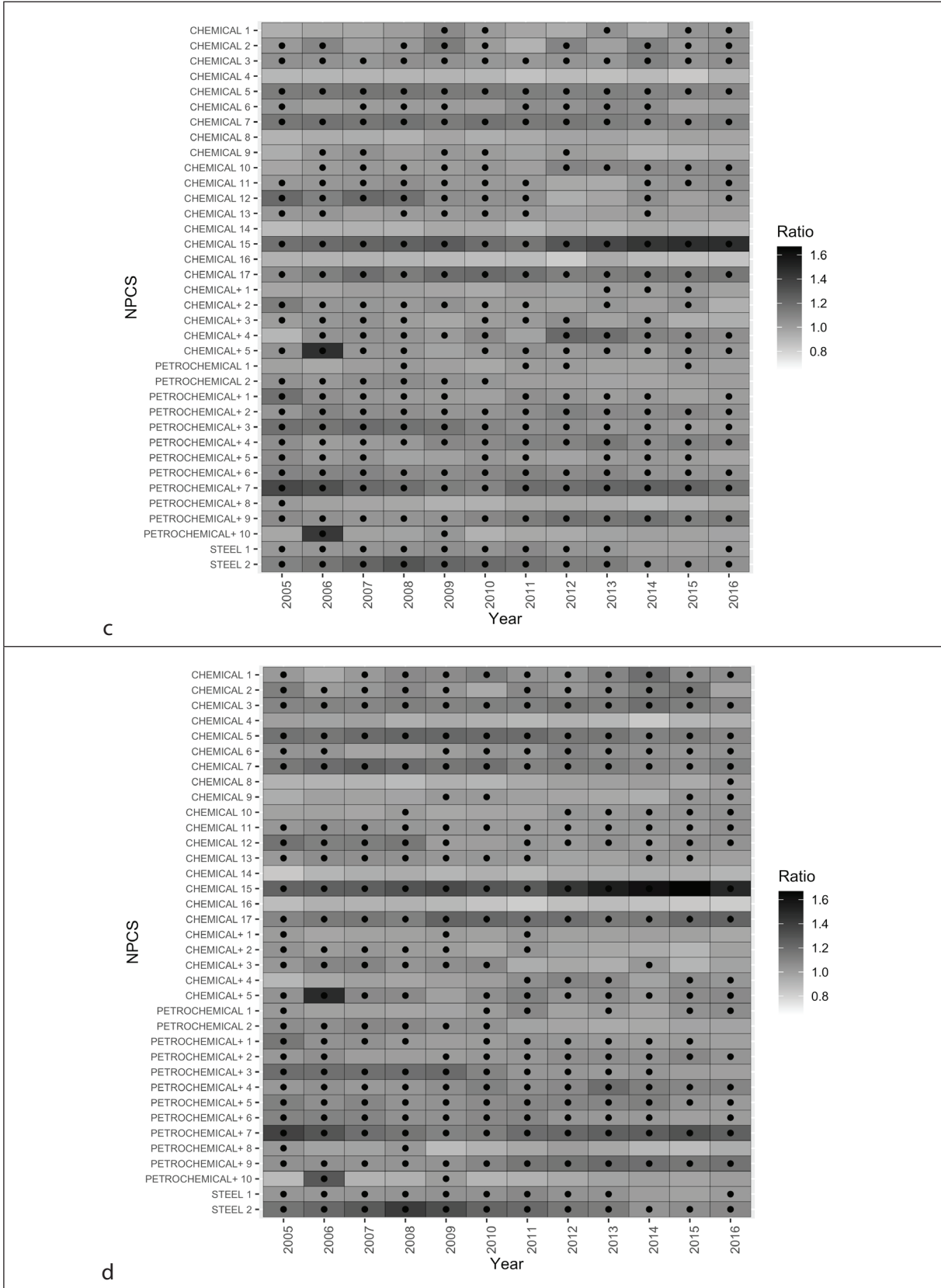


Figure 3c-3d
 For each year of observation, in each selected NPCS, for both males and females, ratios between hospitalization rates in the NPCSs and in the reference regions are computed. The shading of each cell depends on the magnitude of the corresponding rate-ratio. Each cell is marked by a dot if the corresponding ratio exceeds the threshold 1, reporting a risk excess in the site.

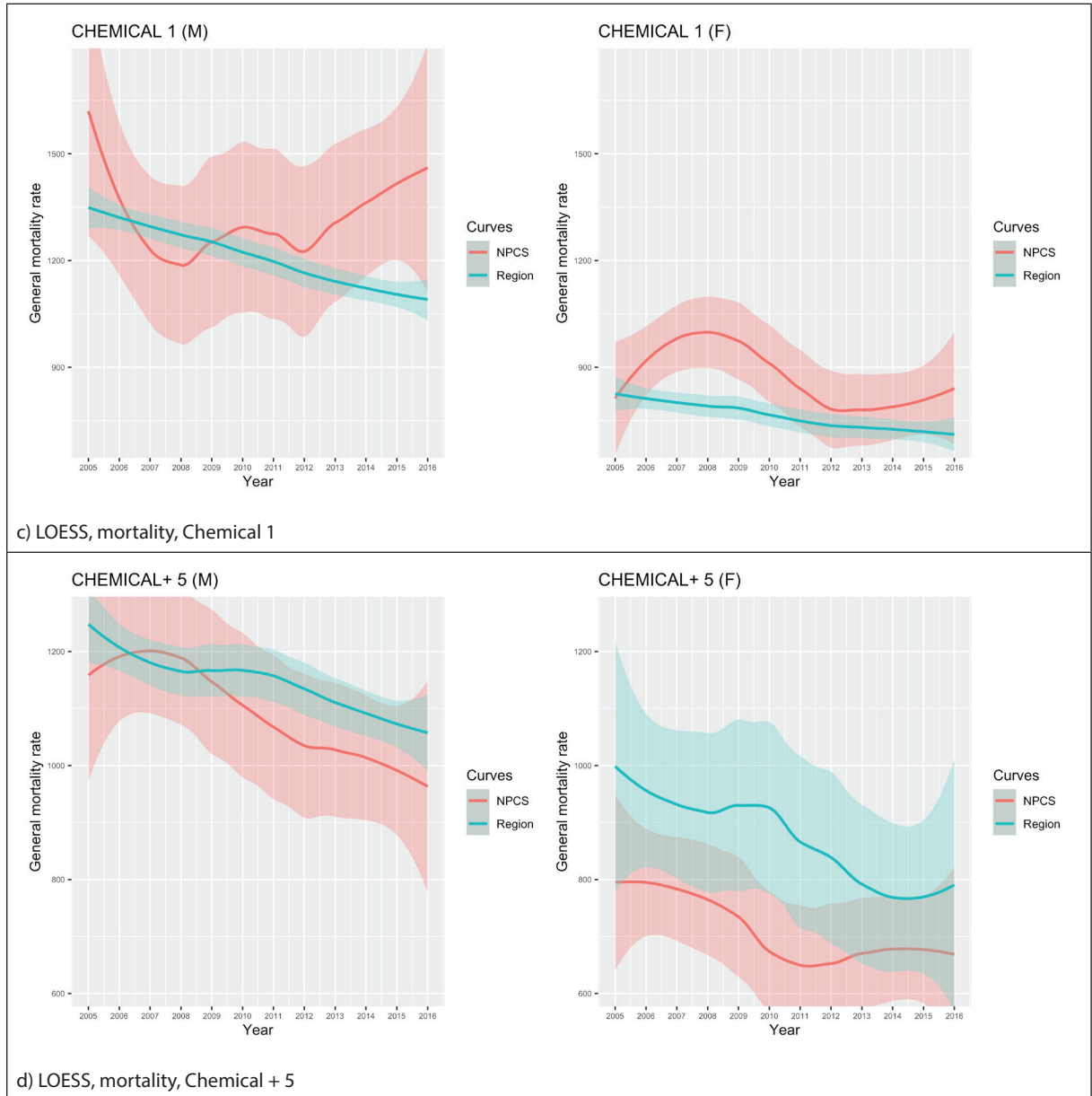
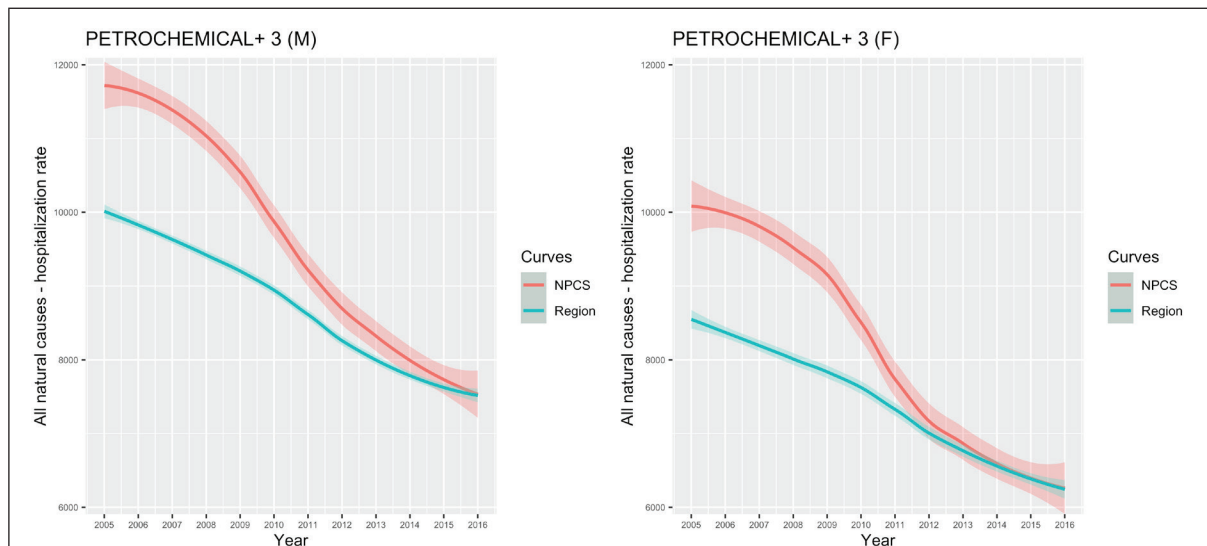
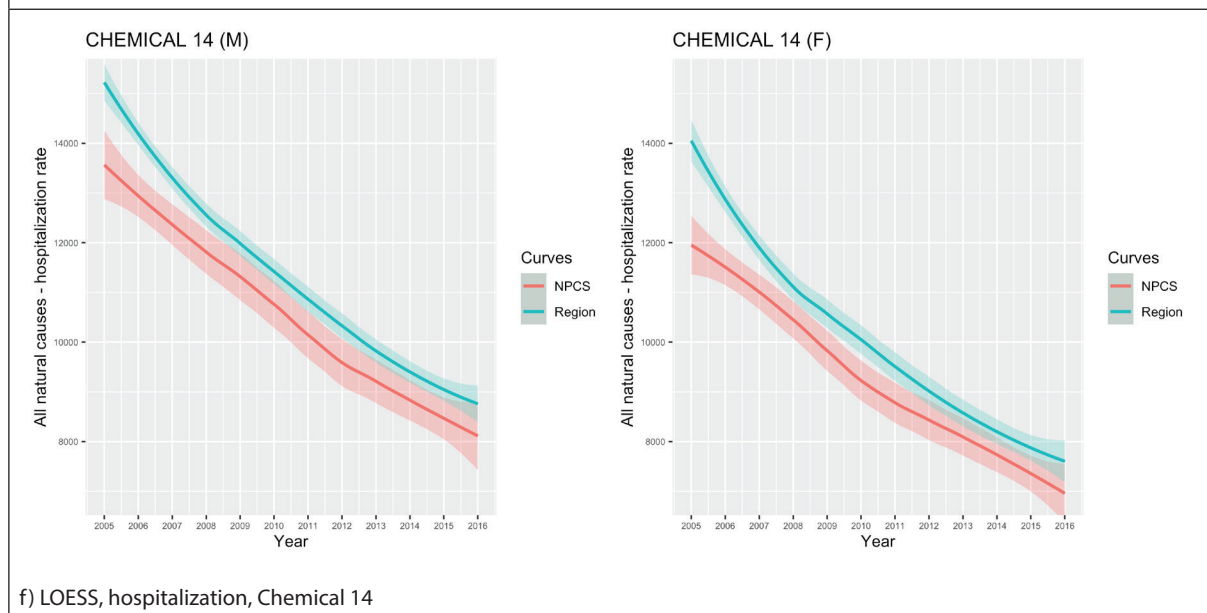


Figure 4 c-d
 LOESS curves built on mortality and hospitalization rates, for the two selected causes (General mortality, All natural causes of hospitalization). A few explicative examples are shown, for four anonymized NCPs. In each plot, the red curve is the smooth approximation of the rate series in the NCPs, while the turquoise curve relates to the rate series of the region where the NCPs is located. For each curve, a 95% confidence interval is computed.



e) LOESS, hospitalization, Petrochemical + 3



f) LOESS, hospitalization, Chemical 14

Figure 4 e-f

LOESS curves built on mortality and hospitalization rates, for the two selected causes (General mortality, All natural causes of hospitalization). A few explicative examples are shown, for four anonymized NCPSs. In each plot, the red curve is the smooth approximation of the rate series in the NCPS, while the turquoise curve relates to the rate series of the region where the NCPS is located. For each curve, a 95% confidence interval is computed.