

Poverty and cancer incidence during the Greek austerity period: Insights from Cancer Registry of Crete



D. Sifaki-Pistolla, ¹ V. E. Chatzea, ¹ F. Koinis, ¹ N. Tzanakis, ¹ V. Georgoulias, ¹ C. Lionis ¹

Purpose

The association of socioeconomic status and cancer morbidity was always on the focus of epidemiologists and policy makers. Greece is a country that has been greatly affected by the economic crisis.

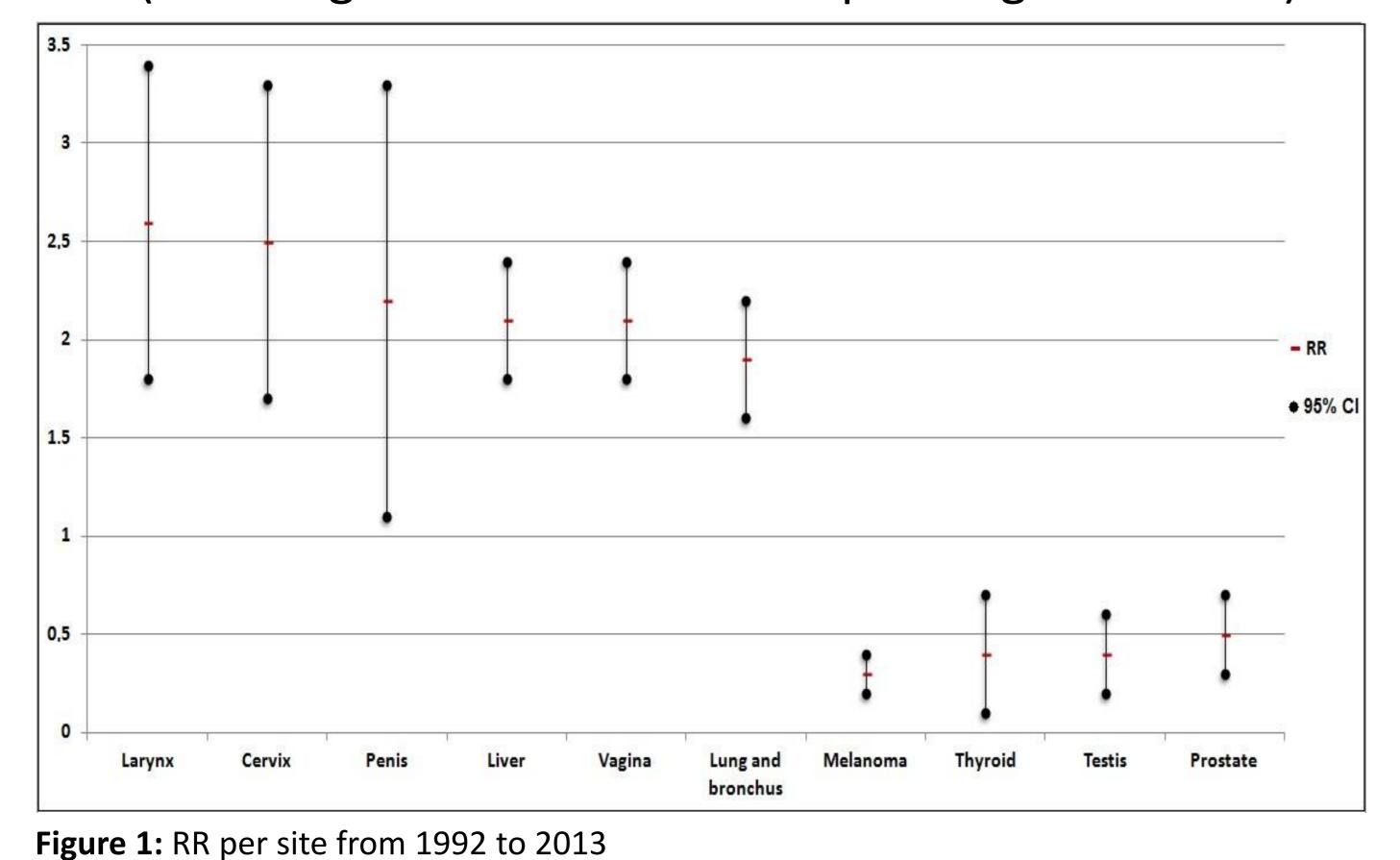
Overall aim: to investigate its impact on cancer incidence.

Methods

- ❖ Site-specific cancer data and poverty data were used. Cancer new cases and deaths per site were obtained from CRC's database (1992-2013). According to the site recode ICD10-O, 39 sites were included in the analysis.
- ❖ The Age-Adjusted Incidence Rates (ASIR) and Age-Standardized Mortality Rates (ASMR) were estimated. The Human Poverty Index (HPI-2) for high income countries assessed poverty per municipality in Crete at two time periods (1991-2000; 2001-2011). HPI was grouped in five categories across Crete's municipalities.
- ❖ Cancer cases were studied at place of residence during the time of diagnosis. The **Risk Ratio** (RR) of the highest-tolowest poverty category was measured using Poisson regression, adjusting for age.

Results - I

- □ HPI varied significantly (Pvalue=0.03) among Crete's municipalities, ranging from 9.3 to 30.2. Association between poverty and cancer incidence was observed in 36 out of 39 sites, while in 30 sites were found to be significantly associated (Pvalue<0.05).
- ☐ A total of 22 sites presented monotonic increases or decreases in risk across poverty categories from 1992 to 2013 (RRs ranged from 0.3 to 2.9 depending on the site).



Results - II

➤ Several variations on RRs were observed among the municipalities of Crete, with urban/semi-urban municipalities of Lasithi county and rural municipalities of the counties of Heraklion, Chania and Rethimnon to present stronger association of poverty and cancer incidence (Pvalue<0.05).

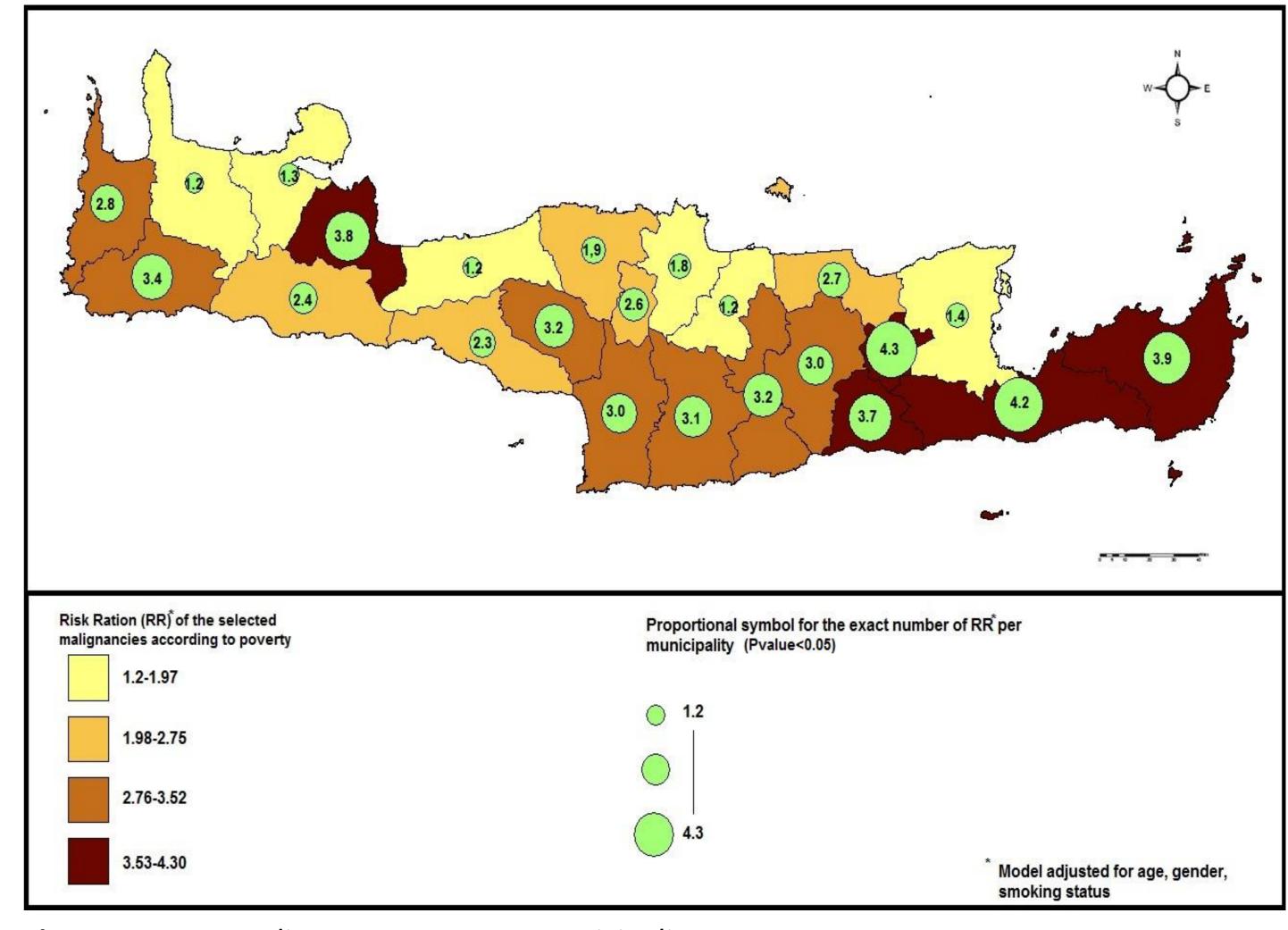


Figure 2: RR according to poverty per municipality

Discussion

- ➤ Poverty is associated with a huge array of diseases that are affected by poor living conditions, limited resources or accessibility to healthcare system.
- Results of this study are **on line with other** European and American **studies**.
- Factors that seem to co-exist in poor population groups are: smoking, alcohol consumption, diet, exposure to indoor and outdoor air pollution.

Conclusion

Socioeconomic status appears as an important variable in national cancer surveillance, especially during austerity times.

Future research

- ✓ Field study in high/low risk municipalities to explore the hidden factors among population groups of higher/lower socioeconomic status.
- ✓ Explore and conduct targeted interventions to vulnerable population groups.

Affiliations:

1. Cancer Registry of Crete



Figure: CRC's team. Photos are placed according to authors order.





Regional Cancer Registry of Crete
University of Crete, School of Medicine, Department of Social Medicine
Email: cancer.registry.crete@gmail.com, Website: www.crc.uoc.gr
Phone: +30 2810394614

