AA.Gube¹, S. Lohner^{2, 3} and V. Jozsef¹

¹Doctoral School of Health Sciences, Faculty of Health Sciences, University of Pécs, Pécs, Hungary

²Department of Public Health Medicine, Medical School, University of Pécs, Pécs, Hungary

³Cochrane Hungary, Clinical Centre of the University of Pécs, Medical School, University of Pécs, Hungary

INTRODUCTION

Health inequity or health disparity is a specific type of health inequality that denotes an unjust difference in health. By one common definition, when health differences are preventable and unnecessary, allowing them to persist is unjust. In this sense, health inequities are systematic differences in health that could be avoided by reasonable means.

OBJECTIVE

To assess inequity in the distribution of communicable and non-communicable diseases among the adult population of Pécs City, Hungary.

METHOD

This is an ecological study, and the study population was adult patients living in the city of Pécs who were treated for circulatory, neoplasm, or respiratory diseases in 2019. Hospitalization and local socioeconomic data by Zip codes were obtained from the National Health Insurance Fund of Hungary and the Hungarian Central Statistical Office. Diseases were defined according to the International Classification of Diseases, 10^{th} revision (ICD-10). The difference and ratio of proportions of treated diseases, and the concentration index (C) were calculated. Zip codes were ranked from categories 1 to 5 based on socio-demographic variables. A P-value of less than 0.05 was used as the cut-off point for statistical significance. IBM SPSS version 25 and STATA version 14.0 software were used for data analysis.

RESULTS

A total of 36 Zip codes of the city of Pécs were included in the study. Based on employment status, neoplasms are more distributed among the population living in Zip codes where many people are unemployed (C = -.05277525; CI95% = -.09754951, -.00800099). Based on apartment ownership, neoplasms (C = -.07419624; CI95% = -.11023933, -.03815315) and circulatory diseases (C = -.02796282; CI95% = -.05204371, -.00388193) are more prevalent in Zip codes with fewer apartment owners.

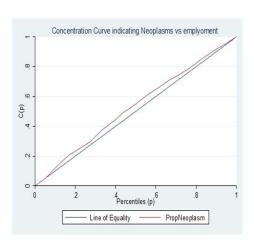


Fig. A. The concentration curve showing the distribution of Neoplasms based on employment status

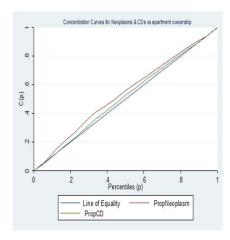


Fig. B. The concentration curves showing the distribution of Neoplasms and circulatory diseases based on apartment ownership

CONCLUSIONS

In the City of Pécs, there is inequity in the distribution of Neoplasms based on employment status and apartment ownership and inequity in the distribution of circulatory diseases based on apartment ownership. Efforts should be made to reduce health inequity in the distribution of these diseases among the city's low-economic-level population.

REFERENCES

BÍRÓ, A., HAJDU, T., KERTESI, G. & PRINZ, D. 2021. Life expectancy inequalities in Hungary over 25 years: The role of avoidable deaths. *Population Studies*, 75, 443-455

EC. 2020. knowledge for policy: Social gradient in health [Online]. European Commission [Accessed 05/27 2022].

EUROHEALTHNET 2017. EuroHealthNet Country Exchange Visit.

Health Equity and the Preventive Care Act in Germany Berlin:
Bundeszentrale für gesundheitliche Aufklärung (BZgA).

CONTACT INFORMATION

Addisu Alemayehu Gube, Email: addis166@gmail.com