

# International Reference Pricing Analysis of Medicines in Türkiye By 2021

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## Introduction

- Türkiye uses international reference pricing (IRP) to determine the prices of medicines<sup>1</sup>.
- The IRP mechanism is based on the presence of equivalent drugs on the national market to set a reimbursement price, known as the reference price, and the price of the new drug.
- The price in the country with the lowest manufacturer sale price is considered the reference price in Türkiye<sup>2</sup>.
- The aim of this study is to analyze the results of IRP in Türkiye for 2021.

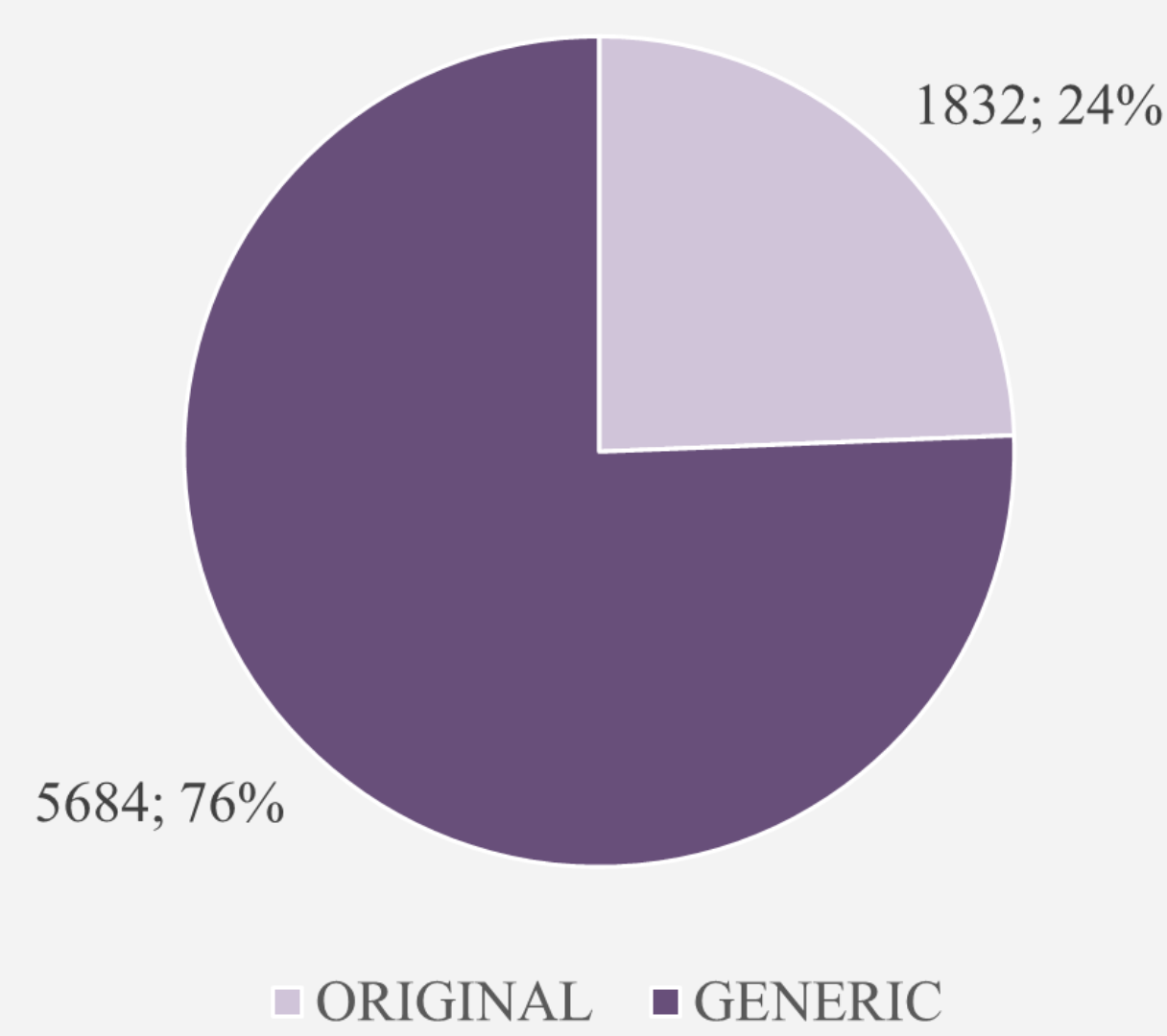
## Methods

- The study data was obtained from the Detailed Medicine Price List on December 25, 2021.
- The analysis was conducted via Microsoft Excel.
- The original and generic status, country-based distribution, manufacturer's sale price and reference pricing of medicines were analyzed.
- Medicines for which Türkiye is used as a reference country, medicines with more than one reference countries, non-reimbursement medicines, non-prescription medicines, single generic medicines without equivalents and traditional herbal medicines were not included within the scope of this research.

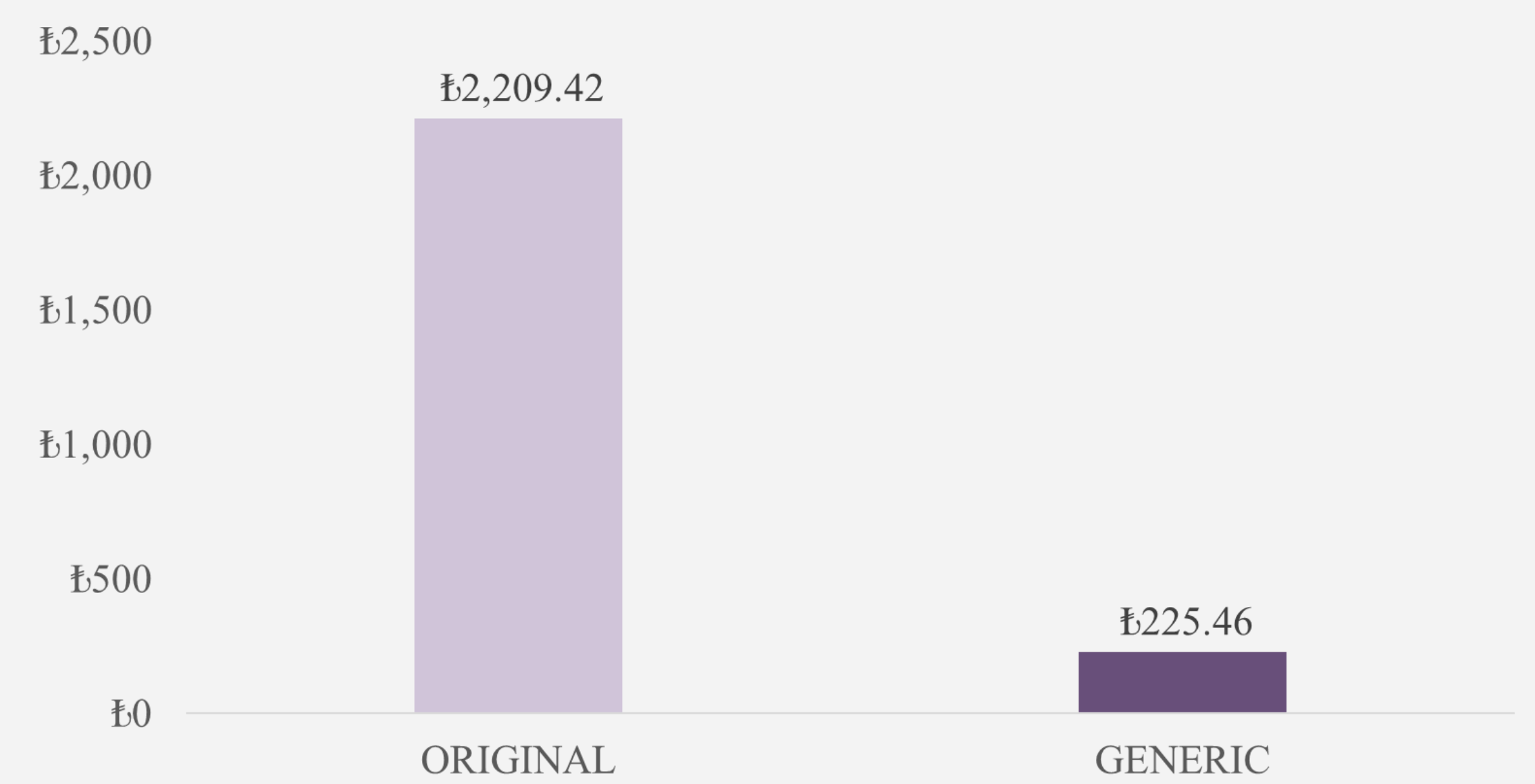
## Results

- A total of 7,156 medicines were examined and 5,684 of them were generic medicines while 1,832 were original medicines.
- 19% of original medicine prices had references from Greece, 16% from France, 13% from Italy and 11% from Spain; 28% of the generic medicine prices had references from Greece, 22% from France, 16% from Italy and 12% from Spain.
- It was found that 11% of the original medicines and 3% of the generic medicines had references from Germany, the country which is not present in the official reference countries for Türkiye.
- The average manufacturer's sale price for the original medicines was calculated as 2,209 TL and the one for the generic medicines as 225 TL in Türkiye.

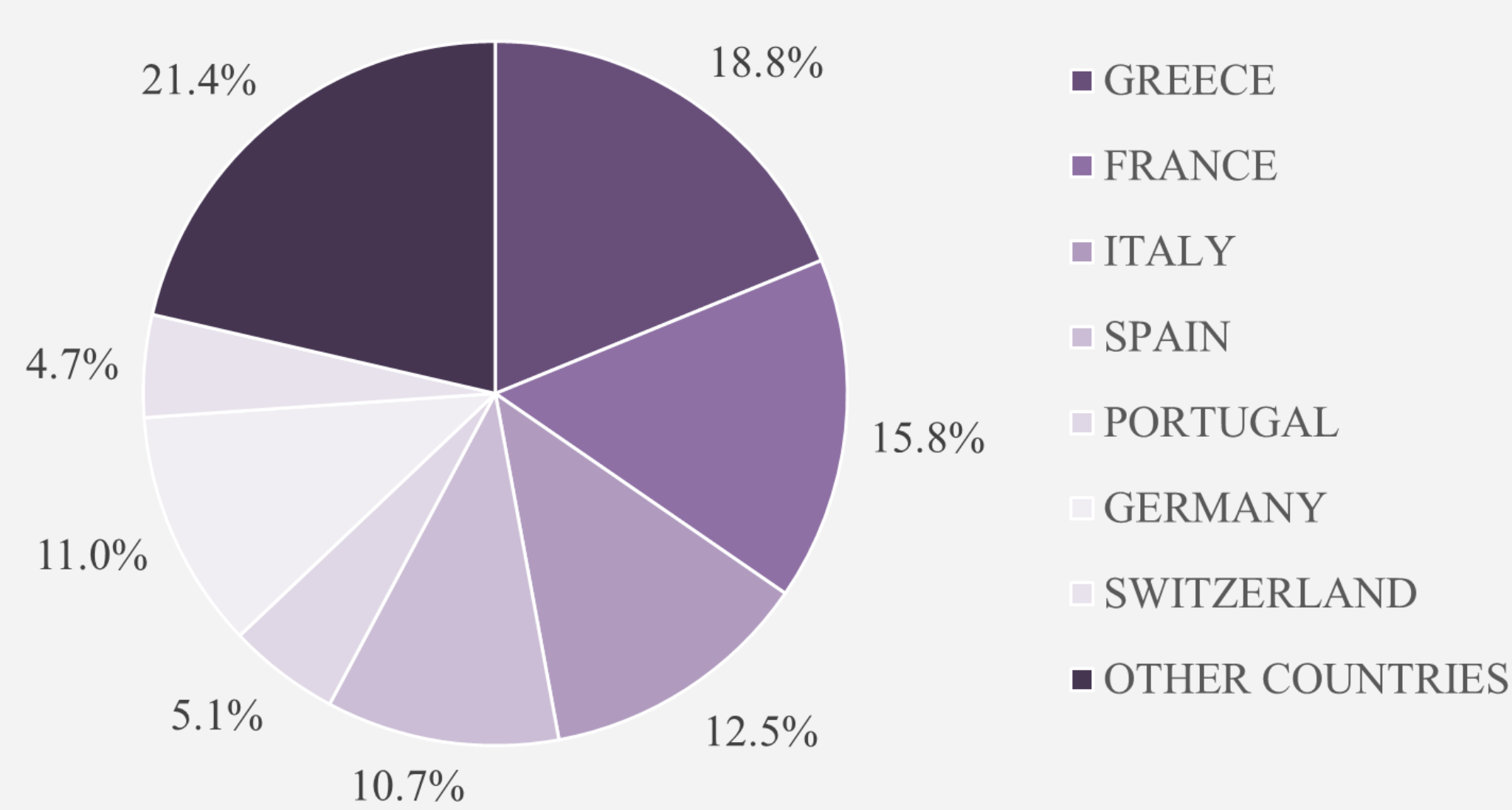
### Distribution of Original and Generic Medicines in 2021



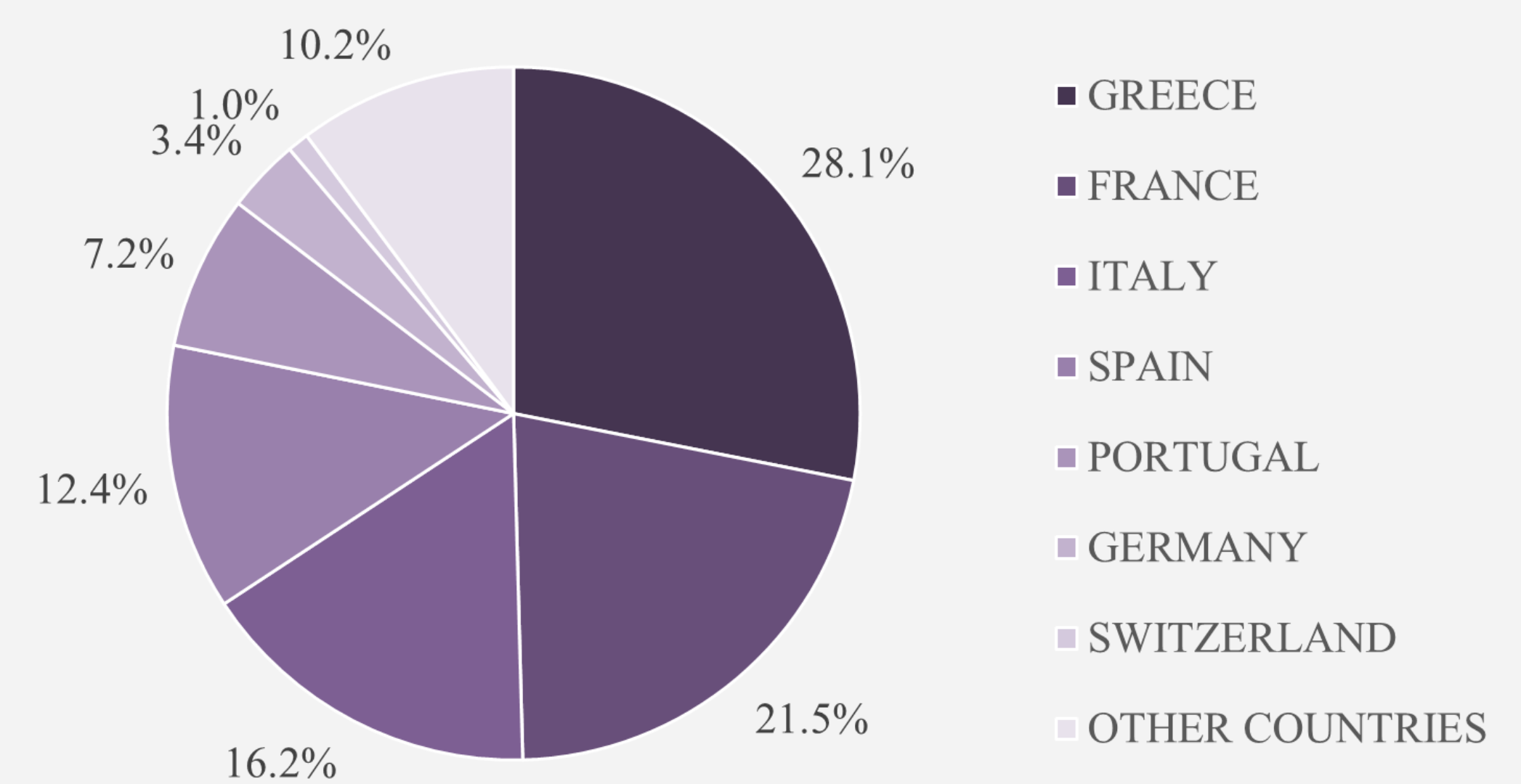
### Average Manufacturer's Sale Price of Medicines in 2021



### Reference Country Distribution of Original Medicines in 2021



### Reference Country Distribution of Generic Medicines in 2021



## Conclusions

- It was found that Greece was the country that was mostly considered as the country of the reference price in Türkiye, although differences were present between the prices for original or generic medicines.
- While the manufacturer sale price is 100% of the reference price for original medicines, the manufacturer sale price for generic medicines is 60% of the reference price for generic medicines, so the average manufacturer sale price of generic medicines is considerably lower than that of the original medicines.

## References

- Turkish Medicines and Medical Devices Agency. Decree on The Pricing of Medicinal Products for Human Use.
- Oğuzhan, G. E. (2018). "Impact of the International Reference Pricing on Pharmaceutical Market Access", in Kockaya, G. and Wertheimer, A. (ed.) Pharmaceutical Market Access in Developed Markets, SEEd Medical Publisher, Italy, pp. 255-258.

