

## Migrant and Population Health, Two Sides of a Coin: A Descriptive Study

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**Abstract :** Introduction: Migration is not a new phenomenon; nomads often traveled, seeking better living conditions, including food and water. The increase of migrations affects all countries, rising health-related challenges. In Portugal, we have had migrant movements in the last decades, pairing with economic behavior. Irregular immigrants are detained in Santo António detention center from Portuguese Immigration and Borders Service (USHA-SEF) in Porto until court decision for a maximum of 60 days. It is the only long stay officially designated detention center for immigrants in Portugal. Immigrant health is important for public health (PH). It affects and is affected by the community. The XXVII Portuguese Government considered immigrant integration, including access to health, health promotion, protection and reduction of inequities a political priority. Many curative, psychological and legal services are provided for detainees, but until 2015, no structured health promotion or prevention actions were being held at USHA-SEF. That year, Porto Occidental PH Local Unit started to provide vaccination and health literacy on this theme for detainees and SEF workers. Our activities include a vaccine lecture, a medical consultation with vaccine prescription and administration, along with documented proof of vaccination. All vaccines are volunteer and free of charge. This action reduces the risk of importation and transmission of diseases, contributing to world eradication and elimination programs. We aimed to characterize the demography of irregular immigrant detained at UHSA-SEF and describe our activity. Methods: All data was provided by Porto Occidental Public Health Unit. All paper registers of vaccination were uploaded to MicrosoftExcel®. We included all registers and collected demographic variables, nationality, vaccination date, category, and administered vaccines. Descriptive analysis was performed using MicrosoftExcel®. Results: From 2015 to 2018, we delivered care to 256 individuals (179 immigrants; 77 workers). Considering immigrants, 72% were male, and 8 (16%) women were pregnant. 85% were between 20-54 years ( $x=30,8y$ ; 2-71y), and 11 didn't report any age. Migrants came from 48 countries, and India had the highest number (9%). MMR and Tetanus vaccines had > 90% vaccination rate and Poliomyelitis, hepatitis B and flu vaccines had around 85% vaccination rates. We had a consistent number of refusals. Conclusion: Our irregular migrant population comes from many different countries, which increases the risk of disease importation. Pregnant women are present as a particular subset of irregular migrants, and vaccination protects them and the baby. Vaccination of migrant is valuable for them and for the countries in which they pass. It contributes to universal health coverage, for eradication programmes and accomplishment of the Sustainable Development Goals. Peer influence may present as a determinant of refusals so we must consistently educate migrants before vaccination. More studies would be valuable, particularly on the migrant trajectory, duration of stay, destiny after court decision and health impact.

**Keywords :** migrants, public health, universal health coverage, vaccination

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