Monkeypox Outbreak in Andalusia: a Socioeconomical Approach

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Declaration of Interest

The authors declare that they have no competing financial interests or personal relationships that could have appeared to influence the work reported in this presentation.
In May 2022, the UK Health Security Agency reported several cases of Monkeypox.

All these cases had no history of recent travel to endemic areas or contact with previously reported cases.

Since then, many countries have reported more than 20,248 confirmed cases.
• July 12: 2,447 confirmed MPX cases had been reported in Spain

• Appeared to be related to specific sexual risk behaviors, especially among MSM

• A public health perspective: Characteristics of the affected population and whether it may be related to their socioeconomic level
METHODS
• **Cross-sectional study** of MPX cases in Andalusia as of July 12, 2022

• **Average income per person** (API) information was obtained with a census section disaggregation level

• **Incidence rates** (IR) were calculated by AIP and province, per 100,000 inhabitants and per 100,000 males aged 15-69 years (IRM)
RESULTS
On July 12, 232 Monkeypox cases had been reported in Andalusia

- 228 were men (98%)
- 219 declared MSM practices (96%)
- 92 were HIV co-infected (42%)
The provinces with the highest IR were:

**Malaga**
- IR: 7.61
-IRM: 20.63

**Granada**
- IR: 3.04
-IRM: 8.38

**Seville**
- IR: 1.80
-IRM: 5.04
Cases were categorized by quintiles, finding 52.59% of them between Q4-Q5.

The rate ratio between Q5/Q1 was 1.95.

<table>
<thead>
<tr>
<th>Quintil (Q)</th>
<th>Average Income per Person</th>
<th>MPX Cases</th>
<th>Percentage</th>
<th>Crude Rate</th>
<th>Rate Ratio</th>
</tr>
</thead>
<tbody>
<tr>
<td>Q1</td>
<td>[4,053€ - 8,233€]</td>
<td>34</td>
<td>14.66%</td>
<td>2.00</td>
<td>1.00</td>
</tr>
<tr>
<td>Q2</td>
<td>(8,233€ - 9,072€]</td>
<td>37</td>
<td>15.95%</td>
<td>2.19</td>
<td>1.09</td>
</tr>
<tr>
<td>Q3</td>
<td>(9,072€ - 10,017€]</td>
<td>39</td>
<td>16.81%</td>
<td>2.29</td>
<td>1.14</td>
</tr>
<tr>
<td>Q4</td>
<td>(10,017€ - 11,924€]</td>
<td>57</td>
<td>24.14%</td>
<td>3.37</td>
<td>1.69</td>
</tr>
<tr>
<td>Q5</td>
<td>(11,924€ - 26,796€]</td>
<td>65</td>
<td>28.02%</td>
<td>3.91</td>
<td>1.95</td>
</tr>
</tbody>
</table>
CONCLUSIONS
• As of July 12, 2022, Monkeypox in Andalusia mainly affected MSM (94%) 

• HIV prevalence in this subgroup was 42%

• Malaga, Granada and Seville were the provinces with the highest IR

• Unlike other diseases, incidence seemed to be directly proportional to a higher AIP

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