Burden Of Serious Fungal Infections In Ukraine
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Introduction

Ukraine is a large country in Eastern Europe with a population of approximately 45 million people. There are several significant fungal infections in Ukraine. For example, in 2012, there was an estimated 100,000 cases of HIV/AIDS in Ukraine, and the prevalence of HIV/AIDS is the highest in the world. Unfortunately, there are no data on serious fungal infections in Ukraine.

Methods

Initially we identified published epidemiological papers on serious fungal infections. Unfortunately, there are no data on serious fungal infections in Ukraine.

Results

The total number of HIV positive patients in Ukraine is 161,483; 113,063 of them do not receive ARVs. There are 27,161 AIDS patients and 10,906 new cases of AIDS annually. In 2012, there were 27,161 patients with ARV treatment and 4,300 new cases of AIDS. Unfortunately, there are no data on serious fungal infections in Ukraine.

Conclusions

Approximately 1,000,000 (2.2%) of Ukrainian people suffer from serious fungal infections each year. The prevalence of RVC is high and it dominates in fungal infections burden.

Figure 1. Geographical distribution of serious fungal infections in Ukraine

<table>
<thead>
<tr>
<th>Infection</th>
<th>Number of infections per serious disorder per year</th>
<th>Rate/100K</th>
<th>Total burden</th>
</tr>
</thead>
<tbody>
<tr>
<td>None</td>
<td></td>
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<tr>
<td>HIV/AIDS</td>
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<td>Respiratory</td>
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<td>Cancer/Tx</td>
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<td>ICU</td>
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</tbody>
</table>

Table 1. Total burden of serious fungal infections in Ukraine

- Osseophageal candidiasis: approximately 1,360,000
- Candidaemia: approximately 27,000 cases
- Candida peritonitis: approximately 760 cases
- Recurrent vaginal candidiasis: approximately 23,000 cases
- Total burden estimated: approximately 1,987,329 cases

References

1. All Ukrainian population census; available at https://ukrstat.gov.ua.
6. Maps in color created using the original picture by TheSineProject.