Subject

The RNSA (French network of aerobiology monitoring) works with one network of allergists, existing for more than 10 years. Since 2006, these physicians have established with the RNSA a weekly clinical index. This index is used with pollen, phenological and meteorological data to make a weekly pollen bulletin. This index is based on the number of patients coming in consultation, the type of symptoms, their severity and allows to get information of the patients by their patentian. The purpose of this study is to bring to light the use of the clinical index to measure the health impact of pollens on the population. Five years of clinical data allow to begin a geographical and temporal comparison.

Clinical bulletin

Every week, physicians of the network receive by e-mail the clinical bulletin. On this bulletin, physicians give information about the pollinosis number (1), the evolution with regard to the previous week (2) and the intensity of symptoms (3) noticed in their patients.

Clinical index

The 4 chosen criteria for the quotation of symptoms are:

- disabiliating
- diurnal
- nocturnal
- repercussions on work

Example of clinical index calculation:

<table>
<thead>
<tr>
<th>Diagnosis</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
</tr>
</thead>
<tbody>
<tr>
<td>Conjunctivitis Mean</td>
<td>2</td>
<td>2</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>Rhinitis Strong</td>
<td>3</td>
<td>2</td>
<td>3</td>
<td>2</td>
</tr>
<tr>
<td>Cough Weak</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>Asthma Mean</td>
<td>2</td>
<td>2</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>Cutaneous Signs Mean</td>
<td>0</td>
<td>1</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

Clinical index = 11

Use of clinical index

Comparison of pollen index with clinical index of several physicians of a same town

Comparison of clinical index evolution between 2006 and 2010

Conclusion

Results show the intensity, year by year, of symptoms thanks to the evolution of clinical index curves. The analysis of clinical index of each area allows to identify health impact in these areas. The follow-up of clinical index allow the study of the evolution of health impact while season, but also in the long term. It is a tool allowing to follow year after year the problem of pollinosis for allergical people.

Bibliography