Experience in the diagnosis of headaches that start in elderly people

Julio Pascual, José Berciano

Abstract

The diagnoses of the 193 patients aged 65 and over who attended the service of neurology in the past 15 years with de novo headache as their initial and main symptom were specifically analysed. Headaches beginning in elderly people represented only 5-4% of headaches in all ages, whereas 12-1% of the population in this health area was 65 or over. Headache appeared more often in women (63%), although post-traumatic, cluster, and benign cough headaches were almost restricted to men. Tension type headache (83 patients, 43% of the aged patients) and idiopathic trigeminal neuralgia (36, 19%) were the most frequent diagnoses. Fifteen per cent of the elderly patients v 1-6% of patients under 65 presented headache secondary to serious conditions, such as stroke, temporal arteritis, or intracranial neoplasm. Only one patient over 65 met migraine criteria. It is concluded that whereas the incidence of patients with headache attending a general hospital decreases with age, the risk of headaches due to serious conditions increases 10-fold after 65.

There is little information available on the frequency distribution of headaches beginning for the first time in old age. In this work we analysed the diagnosis of headaches that appeared de novo in a general hospital population aged 65 and older.

Patients and methods

All the medical charts of patients attending our service with headache as their main complaint were reviewed. We specifically concentrated on the clinical records of patients aged 65 or over. Since 1974, the service of neurology of the University Hospital “Marqués de Valdecilla” has received neurological patients directly from general practitioners, who have to send us both ambulatory and emergency patients in the area with headache. There are no other hospitals, either public or private, admitting neurological problems in our region. According to official Spanish census data, the number of inhabitants in this health area ranged between 340 000 and 360 000 (348 571 in the middle of this work), whereas those aged 65 and over represented 12-1% of the total population.

Patients were included in this study only if: (1) headache had been both the initial and main complaint, and (2) the clinical diagnosis had been performed, after an appropriate follow up, by one of the staff neurologists. Therefore, we excluded patients with headache, but in whom headache was not the presenting or main symptom for consultation.

Final headache diagnosis was performed according to current operational criteria. Only those patients with headache after lumbar puncture were not included in this series.

Patients were entered in this study provided that they had attended our service from 1978, when CT was first available in our institution, to the end of 1992.

Results

The table summarises the results of the present study. Of the 3578 patients who had attended our service with headache as their main symptom, in 193 (5-4%) the head pain had begun for the first time in their lives when aged 65 years or older.

In these elderly patients, headaches appeared more often in women (122 cases,
Diagnosis and sex distribution of headaches appearing in elderly patients (n = 193) compared with all headaches (n = 3578)

<table>
<thead>
<tr>
<th>Headache diagnosis</th>
<th>No.</th>
<th>Men</th>
<th>Women</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tension type</td>
<td>1030</td>
<td>50%</td>
<td>53%</td>
</tr>
<tr>
<td>Idiopathic trigeminal neuralgia</td>
<td>83</td>
<td>24%</td>
<td>76%</td>
</tr>
<tr>
<td>Subarachnoid haemorrhage</td>
<td>68</td>
<td>25%</td>
<td>75%</td>
</tr>
<tr>
<td>Temporal arteritis</td>
<td>32</td>
<td>19%</td>
<td>81%</td>
</tr>
<tr>
<td>Intracranial neoplasms</td>
<td>1</td>
<td>5%</td>
<td>95%</td>
</tr>
<tr>
<td>Cervical spine disorder</td>
<td>23</td>
<td>4%</td>
<td>96%</td>
</tr>
<tr>
<td>Postherpetic trigeminal neuralgia</td>
<td>20</td>
<td>3%</td>
<td>97%</td>
</tr>
<tr>
<td>Post-traumatic</td>
<td>88</td>
<td>NS</td>
<td>1%</td>
</tr>
<tr>
<td>Eyes, ears, nose, sinuses, teeth, jaws</td>
<td>32</td>
<td>4%</td>
<td>96%</td>
</tr>
<tr>
<td>Cluster</td>
<td>71</td>
<td>NS</td>
<td>1%</td>
</tr>
<tr>
<td>Benign cough</td>
<td>3</td>
<td>NS</td>
<td>1%</td>
</tr>
<tr>
<td>Accelerated hypertension</td>
<td>3</td>
<td>NS</td>
<td>1%</td>
</tr>
<tr>
<td>Intracranial haematoma</td>
<td>0</td>
<td>NS</td>
<td>1%</td>
</tr>
<tr>
<td>Substance misuse or withdrawal</td>
<td>40</td>
<td>NS</td>
<td>1%</td>
</tr>
<tr>
<td>Occipital neuralgia</td>
<td>11</td>
<td>NS</td>
<td>1%</td>
</tr>
<tr>
<td>Migraine</td>
<td>1801</td>
<td>NS</td>
<td>1%</td>
</tr>
<tr>
<td>Tolosa-Hunt syndrome</td>
<td>2</td>
<td>NS</td>
<td>1%</td>
</tr>
<tr>
<td>Facial pain not classifiable</td>
<td>13</td>
<td>NS</td>
<td>1%</td>
</tr>
<tr>
<td>Other diagnosis</td>
<td>147</td>
<td>NS</td>
<td>1%</td>
</tr>
<tr>
<td>Totals</td>
<td>3385</td>
<td>5%</td>
<td>95%</td>
</tr>
</tbody>
</table>

*p* < 0.05

Discussion

Because many, even elderly, patients with headaches either never go to a doctor, or are exclusively treated by their general practitioner, the data presented here do not have any direct epidemiological value. They should, however, be of practical interest to neurologists working in developed countries.

Historically, it has been thought that the incidence of headache in elderly people is inversely related to age, and that headache may occur more often among serious conditions such as stroke, temporal arteritis, or intracranial neoplasm in the aged population. The data of the present study are in agreement with both assumptions. Headaches beginning after 65 represented only 5-4% of all the headaches in this series, whereas 12-1% of the population in the area of our hospital is 65 or older. Even without taking into account migraine, which reached 50-4% of headaches in the total population, headaches beginning in elderly people represented 11% of consultations—that is, still lower than the percentage of subjects over 65 in the general population.

On the other hand, at least in our general hospital, it is true that headache is secondary to serious conditions, such as stroke, temporal arteritis, or intracranial neoplasms more often in elderly people than in those under 65. In this series 15% of elderly patients presenting with headache had one of these serious disorders, whereas only 1-6% of those presenting with headache under 65 had such a serious disorder.

The most frequent diagnosis in the aged was tension type headache, which accounted for nearly half of all headache beginning after 65. Because tension type headache may be associated with depression, sleep disorders, and situational life changes, it seems logical to find this headache often in elderly people. Nevertheless, this high incidence of tension type headache is only relative; in fact, consultations because of de novo tension type-
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headache were more common in subjects under 65. In our experience tension type headache beginning after 65 justified only 7.5% of overall consultations due to this diagnosis, clearly below 12.1%, the percentage of old people in our community. This concurs with the study of Langemark and coworkers, in which only a small percentage (under 5%) of patients with tension type headache report their age at onset of headache as over 60.

Apart from tension type headache, headache secondary to substance misuse or withdrawal and, above all, migraine began more commonly before 65. Whereas the prevalence of migraine over 65 is high (7% in men and 12% in women), its onset is unusual after 60 (2%). Although migraine accounted for 50% of the total series, only one patient out of 1802 met the current criteria for migraine diagnosis after 65, which represents only 0.5% of headaches in this series.

By contrast with migraine, entities such as headache secondary to vascular disorders, headache secondary to intracranial neoplasm, both postherpetic and idiopathic trigeminal neuralgia, and benign cough headache were almost exclusive to or predominant in those patients starting with headaches over 65. On the other hand, consultations due to headache secondary to eyes, ears, nose, sinuses, teeth, and jaw disorder, facial pain not classifiable, cluster headache, and occipital neuralgia were statistically similar in patients older and younger than 65.

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