Use of the Goldberg General Health Questionnaire (GHQ-28) to Detect Psychosocial Problems in the Family Physician’s Office

L. de la Revilla Ahumada, A.M. de los Ríos Álvarez, and J.D. Luna del Castillo

Objective. To analyze the usefulness of the 28-item Goldberg General Health Questionnaire (GHQ-28) in identifying psychosocial problems, and to determine how the questionnaire scores are related to stressful life events (SLE), use of health services, and individual variables (age, sex, employment status, socioeconomic group, and educational level). Design. Cross-sectional study. Setting. Almanjáyar Health Center in the city of Granada, Southern Spain. Participants. 314 patients more than 18 years of age, selected by systematic sampling at an on-demand health center. Main measures. Each patient completed the GHQ-28 during the course of a personal interview, and scores of 8 or higher were considered to indicate psychosocial problems. Score on the Social Readjustment Rating Scale of Holmes and Rahe (stressful life events during the previous year) was also recorded, as were socioeconomic group, educational level, employment status and use of services (number of visits to the doctor during the previous year). All variables were subjected to descriptive analysis and their associations with the GHQ-28 score were tested with the chi-squared test. Multivariate analysis was used to identify categories that showed an independent association with high scores on the GHQ-28. Results. The variables associated with a greater likelihood of psychosocial problems were female sex (OR, 2.15; CI, 1.14–4.04) and high levels of stress (OR, 2.65; CI, 1.50–4.68). Both showed a statistically significant association with the GHQ-28 score after multivariate analysis. Conclusions. The GHQ-28 is a potentially useful instrument to detect psychosocial problems in the family physician’s office, and can aid in the subsequent identification and qualitative evaluation of patients. Key words: Psychosocial problem. Stressful life events. Service overuse. Goldberg General Health Questionnaire.
Introduction

Family physicians see patients every day with a wide spectrum of health problems, and thus serve as the gateway to the health care system. It is often difficult to reach a diagnosis, and health professionals often face different degrees of uncertainty. As noted by Stephens, the patient forms part of various social systems, and to really know the patient, his or her personal, familial and social circumstances need to be known as completely as possible.

Psychosocial problems (PSP) are among the reasons for consulting, and are becoming increasingly important because of their frequency and implications for diagnosis and treatment. De la Revilla defined PSP as “those situations of social stress that produce or facilitate the appearance, in affected individuals, of somatic, psychiatric or psychosomatic illness, giving rise to family crises and dysfunction with alterations in familial homeostasis capable of generating clinical manifestations in some of its members.” If the defining feature of PSP is not their clinical expression but their cause—social stress—the problems family physicians have in detecting these patients during primary care consultations are understandable. Identifying these patients involves bringing to the foreground those motives that underlie the patient’s needs—in other words, the situations that alter family and social dynamics. Higgins claimed that approximately half of all PSP remained undiscovered in primary care consultations. In daily practice, patients do not seek care directly for their PSP, and this makes it difficult for physicians to find signs suggestive of PSP in the problems patients apparently seek help for.

Improvements in diagnosis and treatment of PSP by general practitioners enhance the quality of care and are more cost-effective than care based on specialized services.

The aim of the present study was to evaluate the 28-item Goldberg General Health Questionnaire (GHQ-28) as a detector of PSP, and the relationship between questionnaire scores and causal factors of PSP (stressful life events), one of their consequences (use of services) and some individual variables (age, sex, employment status, socioeconomic group and educational level).

Material and methods

Three physician’s offices at the Almanjáyar Health Center in Granada (Southern Spain) were selected for the present study. Most patients seen at this health center are of middle-lower socioeconomic status. Systematic sampling based on the list of patients with scheduled appointments was used to obtain data for 314 patients who agreed to participate in the study. The percent level of participation was 85%. At the end of the scheduled consultation, each patient was invited to be interviewed in a different office during approximately 10 to 15 minutes so that they could respond to items on the GHQ-28 and the Social Readjustment Rating Scale of Holmes and Rahe. The demographic variables recorded were age, sex, employment status, socioeconomic group and educational level. Persons younger than 18 years were excluded.

Goldberg GHQ-28

During the interview patients responded to the GHQ-28, which was divided into four subscales of 7 items each. These sections dealt with somatic symptoms, anguish/anxiety, social dysfunction and depression. Suspected PSP was recorded when the number of responses in the two right-hand columns was 8 or higher.

Social Readjustment Rating Scale

To evaluate stressful life events (SLE) we used the Social Readjustment Rating Scale (SRRS) of Holmes and Rahe. Readjustment was defined by these authors as “the amount and duration of change in the subject’s accustomed pattern of life.” Only those SLE during the previous year were recorded. The SRRS consists of 43 items ranked from greatest to least stressfulness; each event is scored in life-change units (LCU) from 100 (most serious) to

General Scheme of the Study

Cross-sectional, descriptive study to evaluate the presence of psychosocial problems with the GHQ-28 in patients seen at the Almanjáyar Health Center in Granada, Spain.
11 (least serious). A total score of 150 LCU or higher is considered to indicate a level of stress that may affect individual or family health.

**Employment Status**
This was recorded as actively employed, unemployed, student or retired.

**Socioeconomic Group Indicator**
The National Occupational Classification was used to assign the individual’s professional qualifications to one of 6 socioeconomic groups: I: executive and high-level technical directors; II: managerial and technical; III: mid-level management; IV: skilled and semiskilled workers in industry; commerce and services, self-employed; V: unskilled workers; or VI: other unspecified.

**Educational Level Indicator**
This indicator was used to classify patients in seven levels according to the highest level of education completed: 1: illiterate; 2: no formal education, able to read and write; 3: primary school; 4: secondary school; 5: secondary school, university track; 6: three-year (or less) university certification; or 7: university.

**Use of Services**
The number of visits to the health center requested by the patient during the previous year was determined from the medical record. Individuals were classified as normal user or overusers depending on the frequency of visits to the health center. On the basis of an earlier study of health service usage patterns at the Cartuja Health Center (in the same city as the health center studied here), we identified patients who had 8 consultations or fewer during the preceding year as normal users, and patients who came to the health center more than 8 times during that period as overusers.

**Statistical Methods**
Descriptive analysis was used for each variable to report the frequency distribution and summary measures such as the mean, median and standard deviation. The variable “total GHQ score” was categorized as <8 or ≥8 to study the associations between this and other variables. The chi-squared test was used for all contingency tables, and when appropriate Fisher’s exact test was used with 2×2 tables, and a generalization of Fisher’s exact test was used for R×C comparisons. To identify which factors were independently associated with high GHQ scores, we used logistic regression with a model that considered all variables. Checking the goodness of fit of the model with the Hosmer-Lemeshow test showed that the results were not significant. The findings with the goodness of fit model are expressed as odds ratios (OR) with 95% confidence intervals (CI).

**Results**

**GHQ Scores**
Mean score on the GHQ was 9.25 (SD, 6.71). Slightly more than half (56%) of the patients interviewed scored 8 or higher, and were therefore considered to have a possible PSP.

**Table 1**

<table>
<thead>
<tr>
<th>GHQ</th>
<th>&lt;8</th>
<th>≥8</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>≤149 LCU</td>
<td>95</td>
<td>72</td>
<td>167</td>
</tr>
<tr>
<td>≥150 LCU</td>
<td>41</td>
<td>106</td>
<td>147</td>
</tr>
<tr>
<td>Total</td>
<td>136</td>
<td>172</td>
<td>314</td>
</tr>
</tbody>
</table>

P<.0001; χ²=26.77.

*LCU indicates life-change units

**Stressful Life Events**
Of the 314 patients interviewed, 147 (47%) reported a number of SLE during the year preceding the interview that yielded a score of 150 LCU or more on the SRRS.

**Use of Services**
We detected 151 (48%) individuals who were classified as overusers (more than 8 consultations during the previous year).

**Age and Sex**
Distribution of the participants according to age group was as follows: 29 years or younger: 63 patients (20%); 30 to 59 years: 202 (64.3%); older than 60 years: 49 patients (15.6%). The youngest participant was 20 years old, and the oldest was 78. Mean age was 42.3 years (SD, 13.85 years). Less than one third (30.6%) were men, and 69.4% were women.

**Employment**
Employed persons made up 44.3% of the participants, unemployed persons made up 36.7%, and the remaining 18.8% of the patients were retired.

**Socioeconomic Group and Educational Level**
Three fourths (75%) of the participants were considered to belong to group IV (skilled or semiskilled workers in industry or services, or self-employed persons). At the lowest end of the scale, unskilled workers (group V) made up 15% of the sample. About half of the participants (155, 49.4%) had completed primary school, 104 (33.1%) had received no formal schooling but were able to read and write, and 22 persons (7%) stated that they were illiterate.

**Univariate Analysis**
**Relationship between level of stress (stressful life events) and GHQ-28 score.** High GHQ scores were associated with higher numbers of SLE during the previous year. Almost three fourths (72%) of the patients who had a cumulative score of 150 or more LCU had a high GHQ score, whe-
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Relationship between GHQ scores and cumulative SLE group by LCU.

<table>
<thead>
<tr>
<th>GHQ</th>
<th>≥8</th>
<th>&lt;8</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>LCU</td>
<td>No.</td>
<td>%</td>
<td>No.</td>
</tr>
<tr>
<td>100-50</td>
<td>210</td>
<td>73</td>
<td>78</td>
</tr>
<tr>
<td>47-40</td>
<td>230</td>
<td>68</td>
<td>107</td>
</tr>
<tr>
<td>39-30</td>
<td>150</td>
<td>67</td>
<td>72</td>
</tr>
<tr>
<td>29-23</td>
<td>144</td>
<td>68</td>
<td>68</td>
</tr>
<tr>
<td>20-11</td>
<td>175</td>
<td>58</td>
<td>128</td>
</tr>
<tr>
<td>Total</td>
<td>910</td>
<td>67</td>
<td>453</td>
</tr>
</tbody>
</table>

P=.0023; χ²=16.52.
*N indicates cumulative number of LCU; LCU, life-change units.

Relationship between GHQ scores and life services.

<table>
<thead>
<tr>
<th>GHQ</th>
<th>&lt;8</th>
<th>≥8</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Use of Services</td>
<td>No.</td>
<td>%</td>
<td>No.</td>
</tr>
<tr>
<td>Normal user</td>
<td>100</td>
<td>61</td>
<td>63</td>
</tr>
<tr>
<td>Overuser</td>
<td>36</td>
<td>24</td>
<td>115</td>
</tr>
<tr>
<td>Total</td>
<td>136</td>
<td>178</td>
<td>314</td>
</tr>
</tbody>
</table>

GHQ indicates Cuestionario General de Salud de Goldberg. P<0.001; χ²=44.9

Relationship between GHQ scores and employment status, socioeconomic group and level of education of the individuals interviewed.

<table>
<thead>
<tr>
<th>GHQ</th>
<th>&lt;8</th>
<th>≥8</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Employment status</td>
<td>No.</td>
<td>%</td>
<td>No.</td>
</tr>
<tr>
<td>Employed</td>
<td>63</td>
<td>45</td>
<td>76</td>
</tr>
<tr>
<td>Unemployed</td>
<td>49</td>
<td>42.6</td>
<td>66</td>
</tr>
<tr>
<td>Student</td>
<td>–</td>
<td>–</td>
<td>1</td>
</tr>
<tr>
<td>Retired</td>
<td>24</td>
<td>41</td>
<td>35</td>
</tr>
<tr>
<td>Socioeconomic group</td>
<td>No.</td>
<td>%</td>
<td>No.</td>
</tr>
<tr>
<td>I</td>
<td>–</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>II</td>
<td>3</td>
<td>75</td>
<td>1</td>
</tr>
<tr>
<td>III</td>
<td>14</td>
<td>58</td>
<td>10</td>
</tr>
<tr>
<td>IV</td>
<td>105</td>
<td>44.5</td>
<td>131</td>
</tr>
<tr>
<td>V</td>
<td>14</td>
<td>28</td>
<td>36</td>
</tr>
<tr>
<td>Educational level</td>
<td>No.</td>
<td>%</td>
<td>No.</td>
</tr>
<tr>
<td>1. Illiterate</td>
<td>3</td>
<td>13.6</td>
<td>19</td>
</tr>
<tr>
<td>2. Able to read and write</td>
<td>40</td>
<td>38.5</td>
<td>64</td>
</tr>
<tr>
<td>3. Primary school</td>
<td>74</td>
<td>47</td>
<td>82</td>
</tr>
<tr>
<td>4. Secondary school</td>
<td>17</td>
<td>68</td>
<td>8</td>
</tr>
<tr>
<td>5. University track</td>
<td>1</td>
<td>20</td>
<td>4</td>
</tr>
<tr>
<td>6. University</td>
<td>2</td>
<td>–</td>
<td>–</td>
</tr>
</tbody>
</table>

*Socioeconomic group: I: executive and high-level technical directors; II: managerial and technical; III: mid-level management; IV: skilled and semiskilled workers in industry, commerce and services, self-employed; V: unskilled workers; VI: other unspecified.

Employment status. We found no statistically significant differences between different groups based on employment status (Table 5).
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**Socioeconomic group and educational level.** There appeared to be a relationship between low socioeconomic group (groups IV and especially V) and high GHQ scores (Table 5). We noted that as level of education increased, the risk of a high GHQ score decreased (Table 5). A higher level of education was thus considered a protective variable.

**Multivariate Analysis**

Two risk categories for the variables related with the appearance of high GHQ-28 scores (Table 6) were suggestive of the presence of PSP: high cumulative SLE results (≥150 LCU), associated with a 2.65-fold higher risk (CI, 1.50-4.68), and female sex (OR, 2.15; CI: 1.14-4.04). Less significant associations were also found for lowest socioeconomic group (level V), with an OR of 2.17 (CI, 0.57-8.36), age group 30 to 59 years (OR, 1.92; CI, 0.93-3.98), and health care service overuser status (OR, 1.71; CI, 0.79-3.69).

**Discussion**

The difficulties in rapidly detecting requests for health care that may have their origin in a PSP make it necessary to search for systems that enable us to discover which patients are subjected to social stress. According to Hoepner et al, use of a simple questionnaire that explores somatic, psychological and behavioral processes is potentially useful for discovering psychosocial distress. Goldberg’s GHQ-28, validated for the Spanish population by Lobo et al, has been shown to be a good instrument for detecting problems of social dysfunction, psychosomatic problems, anxiety and depression. Our choice of this test as an instrument to detect PSP was based on three reasons. Firstly, the GHQ is shorter than similar instruments and yet is similar to them in validity and discriminatory power, and is therefore considered more appropriate for use in primary care settings. Secondly, for a cut-off score of 7/8, the sensitivity (77%) and specificity (90%) of the GHQ-28 are acceptable for instruments of this type and similar to those reported in other countries that have tested questionnaires that take longer to administer and interpret. Thirdly, the GHQ comprises, in addition to the overall evaluation, four subscales that provide additional information on psychosomatic symptoms, anguish/anxiety, social dysfunction, and depression.

The relationship between SLE and GHQ scores is of considerable importance. In our study we found that persons with an SLE score of 150 LCU or higher also had high GHQ scores. Likewise, persons with a suspected PSP (high GHQ score) reported more serious SLE (items 1 to 7 in the SRRS). This relationship between SLE and PSP has been observed by other researchers. Chen et al found that 66% of their patients who had experienced an SLE had PSP. In addition, Aro et al reported, in a study of SLE in adolescents, that there was a clear relationship between these events and PSP. De la Revilla et al documented that 65% of the patients with a large number of SLE also had PSP.

**TABLE 6**

<table>
<thead>
<tr>
<th>Variable</th>
<th>Reference Categories</th>
<th>Risk Categories</th>
<th>OR</th>
<th>CI</th>
</tr>
</thead>
<tbody>
<tr>
<td>Age</td>
<td>&lt;30 year</td>
<td>30-59 years</td>
<td>1.92</td>
<td>0.93-3.98</td>
</tr>
<tr>
<td></td>
<td>&gt; 59</td>
<td>0.70</td>
<td>0.21-2.38</td>
<td></td>
</tr>
<tr>
<td>Sex</td>
<td>Men</td>
<td>Women</td>
<td>2.15</td>
<td>1.14-4.04</td>
</tr>
<tr>
<td>Employment</td>
<td>Employed</td>
<td>Unemployed</td>
<td>0.98</td>
<td>0.54-1.78</td>
</tr>
<tr>
<td>Socioeconomic group</td>
<td>III-II</td>
<td>IV</td>
<td>1.52</td>
<td>0.51-4.53</td>
</tr>
<tr>
<td></td>
<td>V</td>
<td>2.17</td>
<td>0.57-8.36</td>
<td></td>
</tr>
<tr>
<td>Educational level</td>
<td>2</td>
<td>0.59</td>
<td>0.18-1.92</td>
<td></td>
</tr>
<tr>
<td></td>
<td>&gt; 3</td>
<td>0.70</td>
<td>0.20-2.46</td>
<td></td>
</tr>
<tr>
<td>SLE</td>
<td>&lt;150 LCU</td>
<td>≥150 LCU</td>
<td>2.65</td>
<td>1.50-4.68</td>
</tr>
<tr>
<td>Use of services</td>
<td>Normal user</td>
<td>Overuser</td>
<td>1.71</td>
<td>0.79-3.69</td>
</tr>
</tbody>
</table>

*OR indicates odds ratio; CI, confidence interval; SLE, stressful life events; LCU, life-change units.

**What Is Known About the Subject**

- Psychosocial problems lead to altered family dynamics and somatic, psychiatric and psychosomatic manifestations which often lead persons with these problems to seek care from their family physician.
- Because it is difficult to determine the nature of psychosocial processes, it is important to study these patients and their management in greater depth.

**What This Study Contributes**

- Family physicians should be aware of psychosocial problems. Instruments are available that make it easier to obtain information on the complex circumstances involved for each patient.
- The GHQ-28 is helpful in that the results are directly related with variables that are associated with the appearance of psychosocial processes.
- Further qualitative research is needed on this type of problem.
In a study of service usage, García Lavandera et al. found an association between overuse and psychiatric distress measured with the GHQ. We also noted this association: 76% of the overusers in our series of patients had high GHQ scores. This may reflect, as suggested by Berwick et al., that individuals with PSP need more frequent care from the health system, and that this in turn leads to increased use. However, we believe another plausible explanation (as noted by Garfield et al.) may be that patients with PSP generally have more illnesses and consequently seek care more often.

The fact that PSP can lead to an increase in health care service use has been noted by others. De la Revilla and de los Ríos found that 77% of the patients who were overusers had a PSP, and Tessler et al. and Liptzin et al. found that subjects diagnosed as having a PSP had higher rates of consultation than the rest of the patients.

Turning to the relationship between individual variables and the GHQ, we found that persons between the ages of 30 and 59 years, and to a lesser degree persons older than 60 years, had higher GHQ scores. During certain periods of life, persons may be exposed to more social or familial stress, or their sensitivity to these factors may vary. This would be consistent with the tendency, described by Verhaak and Wennik, to perceive somatic processes when patients are younger, and PSP in middle-aged patients.

Our analysis of the relationship between PSP and sex showed that women generally had higher GHQ scores than men. This was also noted in a study by Vázquez-Barquero, and may be a reflection, as Kessler et al. suggested, of the tendency for women to be less reticent than men in asking for help with psychological problems.

With regard to the relationship between employment status and PSP, Deniel et al. claimed that unemployment and occupational disability were the two events with the greatest impact on the genesis of these problems. In the present study we found no significant differences in PSP between persons of different employment status. Our analysis of socioeconomic group showed that patients in the most disadvantaged groups (IV and V) clearly tended to have higher GHQ scores. We may therefore consider persons in these socioeconomic strata as a risk group for PSP. As noted by Sinn and Berman, worse living conditions make persons in lower social classes more likely to become ill and to have SLE.

When we examined the influence of educational level on the appearance of PSP, we found that the risk of a high GHQ score decreased as level of education increased. This may be a result of the fact that the relationship between health status and social class is not static, but is mediated by cultural factors. In other words, within every society there are cultural elements that can alter the effect of social class on the process of becoming ill.

To conclude, we note that the GHQ-28 is a good instrument for detecting PSP, and the GHQ score is related in a statistically significant manner with the presence of recent SLE and with female sex. Although certain trends were noted for the other variables studied here, none of them attained statistical significance.

References

Usefulness of Questionnaires in Preventing Psychological-Social Problems in the Primary Care Consulting-Room

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Director, Departamento de Enfermería, Universidad de Huelva, Spain.

The General Health Questionnaire (GHQ) developed by Goldberg was initially intended to help general practitioners in England to detect cases of nonpsychotic psychiatric illness among their patients. Goldberg himself emphasized that the questionnaire was not designed to detect stable dimensions of personality or character, but nonpsychotic states that might involve relapse, remission or intense transitory changes. The potential uses for this instrument have subsequently grown to include epidemiological studies in the general population, and this has made the GHQ a reference standard among questionnaires used to screen for psychopathological problems in the general population and in nonpsychiatric patients. The GHQ is a self-administered instrument with items that deal with subjective symptoms of psychological distress, somatic manifestations frequently associated with anxiety, depression, problems with relationships, and compliance with social, family and professional roles. Inequalities in health attributable to socioeconomic factors are well known. Clear differences in mortality and mor-
Many patients with psychological and social problems are identified in primary care. The Goldberg General Health Questionnaire (GHQ) is a useful tool for identifying such patients.

For the early detection of anxiety disorders and depression, the Preventive and Health Promotion Activities Program (PAPPS) recommends using the clinical interview as the basic diagnostic tool, although at the health professional’s discretion, the Goldberg Anxiety and Depression Scale (GADS) can also be used.

Routine administration of questionnaires such as the GHQ during primary care consultations improves the diagnosis, but does not improve treatment or the outcome of depression.

A substantial increase in the role of nurses, and greater integration of primary and specialized care, will be required for interventions to lead to documented improvements in the management and outcome of depression in primary care.
their problem, detection by the physician seemed to be appropriate. However, in patients with a normal GHQ score who did not perceive any psychological problems, detection by the physician was unlikely to be of any benefit.

The high rate of detection of psychosocial problems (50%) by physicians may lead them to place too much trust in their ability to identify patients with mental disorders. Thus some doctors may be spending unnecessary time and effort on healthy persons, while failing to detect 43% of the patients with high GHQ scores.

The article by de la Revilla et al\(^7\) attempts to analyze the usefulness of the GHQ as a method to detect psychosocial problems, in view of the difficulties family physicians face in detecting these patients during primary care visits. These authors show, once again, that psychosocial problems are frequent especially in care settings where patients belong predominantly to the middle-lower class.

The relationship between GHQ scores and the results on the Social Readjustment Rating Scale (stressful life events, SLE) shows that recent SLE imply a greater likelihood of high GHQ scores. The GHQ scores were also related with service use. Although the differences after correction for these factors were not significant, the findings nonetheless suggest that problems are more likely in patients such as those studied by de la Revilla et al.

The issue should not be reduced to a question of whether the GHQ helps to detect problems. One of the recommendations of the working group on mental health disorders of the Preventive and Health Promotion Activities Program (PAPPS) for the early detection of anxiety disorders and depression is to use the clinical interview as a basic diagnostic tool. However, at the health professional’s discretion, the Goldberg Anxiety and Depression Scale (the GADS, rather than the GHQ) can also be used as a script to help structure the clinical interview\(^8\).

As is always the case with early detection measures, it is of fundamental importance to know whether an appropriate response is available for the problems we may detect. Are primary care centers generally equipped to respond to these problems? Most interventions, particularly for anxiety and depression, take the form of pharmacological treatment or brief support psychotherapy. A full report from the Centre for Reviews and Dissemination at the University of York (UK) regarding improvements in the recognition and treatment of depression in primary care\(^9\) concluded that the routine administration of questionnaires such as the GHQ improved the diagnosis, but did not improve treatment or the outcome of depression. Their analysis of two systematic reviews concluded that substantial increases would be needed in the role of nurses and in the integration with specialized care for primary care interventions to lead to improvements in the management and outcome of depression.

Reference

7. de la Revilla L, de los Ríos Álvarez AM, Luna del Castillo JD. Utilización del Custionario General de Salud de Goldberg psicosociales en la consulta del médico de familia. Aten Primaria 2004;33(8): CITA CRUZADA. OJO