In search of optimal genital herpes management and standard of care (INSIGHTS): doctors’ and patients’ perceptions of genital herpes

B Romanowski,1 Y M Zdanowicz,2 S T Owens2

ABSTRACT

Objective: To compare and contrast attitudes and behaviours of family doctors and patients with regard to genital herpes and its management.

Methods: Family doctors and infected patients were surveyed online to explore disease importance/seriousness, emotional impact, transmission and treatment. The study received ethics approval.

Results: 400 patients and 200 doctors participated. Doctors estimated the emotional impact of genital herpes to be higher than did patients. Patient distress increased with recurrences and more recent diagnosis. Doctors and patients underestimated the risk of transmission during periods of asymptomatic viral shedding, 45% and 51%, respectively. Doctors reported that 74% of their patients were taking medication, whereas only 29% of patients reported use of anti-virals. Doctors reported discussing suppressive therapy with 59% of patients, whereas only 25% of patients recalled such a discussion. Only 40% of patients were aware that daily anti-viral therapy was available to reduce the risk of transmission. The most compelling reason for high interest in suppressive therapy was to reduce the frequency or severity of outbreaks (62%).

Conclusions: Although doctor and patient attitudes and behaviours coincide in a number of areas, there are many areas of misalignment. This presents opportunities for education and improvement in the management of genital herpes.

Genital herpes, a recurrent life-long infection caused by herpes simplex virus type 1 (HSV-1) and type 2 (HSV-2), is one of the most prevalent sexually transmitted infections in industrialised countries.1–3 It causes considerable morbidity, increases the risk of HIV acquisition and transmission, and may lead to congenital and neonatal infections.4 5 Despite increasing awareness of these infections, the prevalence of genital herpes continues to increase,6 most marked by an increase in genital HSV-1, and most people with genital herpes are undiagnosed because they are asymptomatic or have unrecognised disease.1 Infected people are known to shed virus asymptomatically from the genital area at variable frequencies,7 and transmission of genital herpes largely occurs during these periods of asymptomatic shedding.8 Daily treatment reduces viral shedding and the frequency of recurrences,1 and daily treatment with valacyclovir has also been shown to reduce transmission.9 Proper condom use can also reduce transmission, and disclosing HSV status to partners before any sexual contact has been proved to lengthen the time to disease transmission.1011

Although many studies into the clinical and psychosexual aspects of genital herpes have been conducted,12–18 few have focused on disease perceptions.19–21 Published data emphasise the stigma and embarrassment felt by patients: they have difficulty accepting the diagnosis and are most concerned about transmitting genital herpes to current and future sexual partners. Further, patients believe that healthcare professionals are knowledgeable and equipped to diagnose and manage genital herpes.18 However, most doctors regard genital herpes as a minor disease that is easy to manage.18 Doctors also tend to lack appreciation of the impact of a diagnosis of genital herpes on sexual relationships.18

There is a compelling need to document and understand patients’ and doctors’ perceptions about genital herpes and use the results to improve the management of genital herpes.

This study sought to compare and contrast the attitudes and behaviours of family doctors and infected patients with regard to genital herpes.

METHODS

Canadian family doctors (doctors) and people with genital herpes (patients) were surveyed using a cross-sectional, online, survey methodology. The survey was administered by Ipsos Reid; data were collected from 15 May to 9 June 2006.

Patients were recruited from Ipsos Reid’s consumer panel of over 165 000 Canadians. Panellists are amassed from approximately 25 different online sources and all have agreed to participate in research. To achieve a target sample of 400, a total of 28 572 people were sent email invitations, and 13 897 (49%) agreed to participate. Of these, 401 (2.9%) qualified for the study by indicating that they had been diagnosed with genital herpes by a medical doctor or healthcare practitioner.

Doctors were recruited from an email database of 6529 Canadian family doctors. The database comprised email addresses from the Canadian Medical Association Directory as well as doctors previously contacted by Ipsos Reid who had agreed to participate in online research. Recruitment was stratified by geographical region. To achieve a target sample of 200, a total of 1200 family doctors were invited to participate in the study; 246 were screened, and 200 (25%) in active clinical practice completed the survey. Doctors who indicated having no patients with genital herpes in their practice or those who could not provide an estimate of the number of patients with genital herpes in their practice (n = 49) had demographic
information collected and were only asked several general knowledge questions. The base for the majority of survey questions was therefore 151.

Where possible, the content of the doctor and patient questionnaires mirrored one another. The surveys took 15 min to complete and covered four main themes related to genital herpes: perceived importance/seriousness, emotional impact, risk of transmission and treatment. Study participants received nominal financial compensation (doctors, $C65; patients, $C10). The study was approved by the research ethics board of the University of Alberta. All statistical tests were performed using SPSS 12.0.2. software (SPSS Base 12.0 User's Guide, SPSS 2005). Independent sample t-tests (assuming unequal variances) were performed when differences between groups, mean values and proportions were tested for. The χ² test was used to test for differences between groups when variables with multiple categories were examined.

RESULTS

Doctors had been in practice for 14.7 years (mean) and had 2180 patients (mean) in their practice, with 139 or 6.4% (mean) diagnosed with genital herpes. Sixty-four per cent of the doctors were male, and 68% practiced in a city with a population exceeding 100 000. Participating doctors did not differ significantly in terms of gender or language from family doctors listed in the Canadian Medical Directory, but they had been in practice for a shorter period of time (14.7 vs 22.3 years, respectively; p<0.001).

The mean patient age was 44.4 years and 40% were male. Age at diagnosis was 31.2 years (mean), and the mean disease duration was 13.2 years; 10% had had genital herpes for 1 year or less, 13% for 2–4 years, 25% for 5–10 years, 30% for 11–20 years, and 22% for 20+ years. Overall, patients had experienced 2.3 outbreaks (mean) in the preceding year, 35% had had no outbreaks, 36% one to two, 19% three to five, and 11% six or more. Most patients were either married (46%) or had partners (21%). Sixty-seven per cent of patients were currently in sexual relationships, 22% were not sexually active, and 4% were entering new sexual relationships. Fifty-six per cent lived in a city of over 100 000 people, and 19% in a city of 50 000 to just under 100 000.

Diagnosis

Patients reported that their diagnosis of genital herpes was made by a family doctor in 74% of cases, 19% were diagnosed by a specialist, and the remainder were not categorised. Doctors reported that a mean of 40% of their patients with genital herpes were diagnosed by clinical assessment only, 48% by genital culture, 6% using a “blood test”, and the remaining 6% did not specify the method of diagnosis. In contrast, 70% of patients reported that a genital swab was carried out to confirm their diagnosis, 14% reported that specific blood tests for herpes were performed, and 24% stated no test was carried out. A proportion of patients reported more than one method of diagnosis.

Doctors and patients were asked what percentage of people with genital herpes are unaware of their infection. Both groups underestimated the magnitude (doctors, 44%; patients, 36%; p<0.01).

Emotional impact of genital herpes

Doctors and patients acknowledged the negative emotional impact at diagnosis and the ongoing psychological distress related to genital herpes. On average, doctors estimated the emotional impact to be higher than that reported by patients (table 1). Patients with genital herpes for more than 10 years reported less distress than those diagnosed more recently. Distress tended to increase significantly with the number of recurrences in the preceding year.

Transmission of genital herpes

Patients were asked to indicate sources of infection from a list of options. Virtually everyone cited sexual contact (99%); however, some considered toilet seats (19%), blood transfusions (18%), shaking hands (8%), and swimming pools or baths (6%) as potential sources of infection. Overall only 65% identified sexual contact as the sole means of transmission.

Patients estimated that 51% (mean) of people are infected by a partner who does not have an outbreak at the time of contact, and doctors estimated that 45% (mean) of cases are transmitted during periods of asymptomatic shedding (p<0.001).

Patients were asked to indicate if a series of statements were true or false. Seventy per cent felt that “genital herpes can be passed to a sexual partner even when you don’t have an outbreak”. However, 38% then believed “genital herpes can only be passed to a partner when an infected person has sexual contact during an outbreak” and 25% believed that “when you are experiencing an outbreak of genital herpes, your sexual partner will be fully protected from contracting the virus if you use a condom”. Finally, only 40% were aware that “there is a daily treatment available to reduce the chances of passing the virus on to your sexual partner”.

Doctors and patients were asked to indicate their level of agreement with statements related to transmission (table 1). Over 80% of patients agreed that “I can handle the outbreaks of genital herpes, it’s the risk of transmitting the virus that really troubles me”. Doctors were much less likely (62%) to acknowledge that most patients are more concerned with transmission than outbreaks. Recently diagnosed patients reported more concern with transmission and were more likely to believe that genital herpes can be totally controlled by treating each outbreak than those who had had genital herpes longer. Patients who experienced more outbreaks expressed greater concern about transmission, more disruption to their sex life, and less faith in either condoms or treatments than those with fewer recurrences.

When questioned about strategies for reducing the risk of transmission, doctors reported that they typically suggest consistent condom use (87%), always informing partners before becoming sexually involved (85%), abstaining from sexual contact during outbreaks (82%), taking prescription medication (74%), and/or using condoms (40%). Patients, however, typically relied on abstinence during outbreaks (61%) as opposed to always informing partners before becoming sexually involved (22%). They also reported consistent condom use (17%) or, taking prescription medication during outbreaks (22%) or using condoms (15%) to reduce transmission.

Doctor consultation

Virtually all doctors (97%) reported that they typically see their patients with genital herpes at least once a year to discuss the disease. In contrast, only 80% of patients reported having discussed genital herpes with their doctor within the preceding year. The likelihood of discussions in the preceding year decreased with years since diagnosis and increased with the number of recurrences in the preceding year (fig 1).
Table 1  Attitudes towards genital herpes (GH) among doctors and patients and by patient characteristics (% = agree somewhat and strongly agree)

<table>
<thead>
<tr>
<th>Attitudinal statement</th>
<th>Doctors (n = 151)</th>
<th>Patients (n = 400)</th>
<th>p Value</th>
<th>Years since diagnosis</th>
<th>Outbreaks past 12 months</th>
</tr>
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<tr>
<td></td>
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<td>0–1 (n = 40)</td>
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<td>2–4 (n = 50)</td>
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<td></td>
<td>5–10 (n = 100)</td>
<td>F</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>11+ (n = 209)</td>
<td>G</td>
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<td>H</td>
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<tr>
<td>Emotional impact of GH (%)</td>
<td></td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td>I was very upset when I was first diagnosed with GH</td>
<td>99</td>
<td>89</td>
<td>&lt;0.001</td>
<td>A</td>
<td>91</td>
</tr>
<tr>
<td>I have learned to live with my GH</td>
<td>85</td>
<td>86</td>
<td></td>
<td>B</td>
<td>88</td>
</tr>
<tr>
<td>I would do anything to get rid of my GH</td>
<td>92</td>
<td>85</td>
<td>&lt;0.01</td>
<td>C</td>
<td>79</td>
</tr>
<tr>
<td>I would never tell my friends that I have GH</td>
<td>NA</td>
<td>70</td>
<td></td>
<td>D</td>
<td>68</td>
</tr>
<tr>
<td>I feel very embarrassed about having GH</td>
<td>96</td>
<td>67</td>
<td>&lt;0.001</td>
<td>A</td>
<td>88</td>
</tr>
<tr>
<td>I am very upset about having GH</td>
<td>97</td>
<td>65</td>
<td>&lt;0.001</td>
<td>B</td>
<td>78</td>
</tr>
<tr>
<td>I constantly worry about having the next outbreak</td>
<td>75</td>
<td>38</td>
<td>&lt;0.001</td>
<td>C</td>
<td>58</td>
</tr>
<tr>
<td>Having GH is not a big deal</td>
<td>9</td>
<td>33</td>
<td>&lt;0.001</td>
<td>D</td>
<td>30</td>
</tr>
<tr>
<td>Transmission risk (%)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>I can handle the outbreaks of GH, it’s the risk of transmitting the virus that really troubles me</td>
<td>62</td>
<td>83</td>
<td>&lt;0.001</td>
<td>E</td>
<td>82</td>
</tr>
<tr>
<td>I think condoms are very effective in preventing someone from getting GH</td>
<td>93</td>
<td>60</td>
<td>&lt;0.001</td>
<td>F</td>
<td>66</td>
</tr>
<tr>
<td>I believe GH can be totally controlled by treating each outbreak</td>
<td>67</td>
<td>57</td>
<td>&lt;0.05</td>
<td>G</td>
<td>67</td>
</tr>
<tr>
<td>I am constantly worried that I might pass GH to my sexual partner</td>
<td>87</td>
<td>56</td>
<td>&lt;0.001</td>
<td>H</td>
<td>49</td>
</tr>
<tr>
<td>Having GH has restricted my sex life a bit</td>
<td>NA</td>
<td>51</td>
<td></td>
<td>A</td>
<td>41</td>
</tr>
<tr>
<td>I have not changed my sexual practice since the diagnosis of GH</td>
<td>NA</td>
<td>37</td>
<td></td>
<td>B</td>
<td>42</td>
</tr>
<tr>
<td>I am totally comfortable telling a new sexual partner that I have GH</td>
<td>NA</td>
<td>37</td>
<td></td>
<td>C</td>
<td>36</td>
</tr>
</tbody>
</table>
| Statements reflect wording posed to patients. For doctor statements “I” was replaced with “most patients” for all statements except the second last statement which read “I feel completely comfortable discussing GH with my patients”. Both GH patients and doctors were asked to indicate their agreement with each statement using the following scale: “agree strongly, agree somewhat, disagree somewhat, disagree strongly”. Independent sample t-tests (assuming unequal variances) were performed to test for significant differences between: (a) doctors and patients, (b) patients diagnosed within 0–1 years versus patients who had been diagnosed 2–4 years ago, 5–10 years ago or 11 or more years ago and (c) patients with zero outbreaks in the past year versus those experiencing one to two, three to five or six or more outbreaks in the past year. Differences by patient characteristics noted if significant at p < 0.05.
Doctors and patients have different perceptions of who initiated the discussions. According to doctors, 55% of the discussions were patient-initiated. Among patients who had discussed genital herpes with their doctor, 79% stated that they initiated the last discussion (fig 2). Patients diagnosed 11+ years ago were more likely to have initiated the last discussion than those diagnosed in the preceding year. Patients experiencing outbreaks in the preceding year were more likely to have initiated the last discussion than those not experiencing outbreaks.

**Medical management of genital herpes**

Doctors reported that a mean of 56% of their patients with genital herpes were currently receiving episodic anti-viral treatment, 18% were receiving suppressive therapy, and 26% were not taking prescription medication. In contrast, 20% of patients reported that they were currently receiving episodic treatment, 9% suppressive therapy, and 71% were not taking prescription medication for genital herpes. Use of prescription medication tended to increase with the number of recurrences experienced in the preceding year (table 2).

Among doctors (n = 113) who chose not to treat select patients with anti-viral therapy, cost (42%) was the primary rationale, followed by patient refusal (26%) and infrequent outbreaks (13%) (unaided response). In contrast, patients who were not receiving anti-viral therapy (n = 286) thought that their outbreaks were not severe or frequent enough to warrant treatment (70%). Cost was only mentioned by 9% of patients (unaided).

Doctors reported discussing suppressive therapy with 59% (mean) of patients, whereas only 25% of patients recalled such a discussion. Among patients, the likelihood of having a discussion about suppressive therapy with a doctor decreased with years since diagnosis and increased with the number of recurrences experienced in the preceding year (table 2).

Doctors were asked to rank a list of factors in terms of their importance in determining whether suppressive therapy is appropriate (table 3). Reducing the frequency of outbreaks (81%) was most important followed by reducing the risk of transmission (71%) and reducing the severity of each outbreak (58%).

Doctors reported the following reasons for not prescribing suppressive therapy: cost (47%), infrequent outbreaks (38%) and poor compliance (38%) (unaided). Patients who had discussed suppressive therapy but who were not receiving it (n = 65) cited infrequent or mild outbreaks (49%), the cost of treatment or lack of drug coverage (23%), doctor didn’t feel that therapy was warranted (25%), and concern about side effects (24%) as reasons for not starting suppressive therapy (unaided).

Doctors and patients were asked about patients’ willingness to start suppressive therapy (table 4). Seventy-two per cent of doctors felt that patients are very or somewhat willing to start...
genital herpes was disappointing. Clearly, there continues to be a need for education about the basic facts of this infection.

The 2006 Canadian Sexually Transmitted Infections Guidelines stress the importance of “sensitive, empathetic, knowledgeable counselling” as a component in improving the physical and psychological morbidity associated with genital herpes. Our study confirms that genital herpes carries a physical and emotional burden, and patients are more concerned with the risk of transmitting the virus than they are with recurrences. However, not all individuals experience the same degree of morbidity. Our results and those of others confirm that emotional distress is more pronounced among those with more recurrences, and, over time, people cope better with genital herpes. Doctors are aware of the negative psychological impact of genital herpes and reported that their patients experienced greater emotional impact than did the patients themselves. It is possible that, when evaluating emotional harm, doctors tended to think about newly diagnosed patients or themselves. It is possible that, when evaluating emotional harm, doctors tended to think about newly diagnosed patients or those who experienced a greater number of outbreaks.

Doctors and patients differed in their accounts of how genital herpes was managed in the primary care setting. Doctors felt that they were more proactive and provided more information, especially on treatment and the risk of transmission, than was reported by patients. Perhaps information is being delivered, but patients do not comprehend the messages.

Both doctors and patients underestimated the risk of transmission during periods of asymptomatic viral shedding, 45% and 51%, respectively, versus 70% reported in the literature. This lack of information is reflected in patients’ behaviour of predominantly relying on abstinence during outbreaks to reduce the risk of transmission. Education that focuses on a better understanding of asymptomatic viral shedding and transmission reduction strategies is important.

There was also substantial disparity in the reported use of anti-viral therapy between doctors and patients. It is possible

### Table 2 Medical management of genital herpes by patient characteristics (%)

<table>
<thead>
<tr>
<th>Medical management of genital herpes</th>
<th>Patient characteristics</th>
<th>Outbreaks past 12 months</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Years since diagnosis</td>
<td></td>
</tr>
<tr>
<td></td>
<td>0–1 (n = 40)</td>
<td>2–4 (n = 50)</td>
</tr>
<tr>
<td>Current use of anti-viral therapy (%)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Episodic therapy</td>
<td>18</td>
<td>20</td>
</tr>
<tr>
<td>Suppressive therapy</td>
<td>8</td>
<td>16</td>
</tr>
<tr>
<td>Not taking prescription drugs</td>
<td>75</td>
<td>64</td>
</tr>
<tr>
<td>Ever discussed option of prescription suppressive therapy with a GP/family doctor (%)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Yes</td>
<td>35</td>
<td>40</td>
</tr>
<tr>
<td>No</td>
<td>65</td>
<td>56</td>
</tr>
<tr>
<td>Don’t know</td>
<td>–</td>
<td>4</td>
</tr>
</tbody>
</table>

Differences across years since diagnosis and outbreaks tested using $\chi^2$ test.

### Table 3 Factors that doctors might consider when determining if suppressive therapy is appropriate (% ranked among top three factors)

<table>
<thead>
<tr>
<th>Factors</th>
<th>Yes (%)</th>
<th>No (%)</th>
<th>Don’t know (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>To reduce the frequency of outbreaks</td>
<td>81</td>
<td>19</td>
<td>0</td>
</tr>
<tr>
<td>To reduce the likelihood of transmitting the virus</td>
<td>71</td>
<td>29</td>
<td>0</td>
</tr>
<tr>
<td>To reduce the severity of each outbreak</td>
<td>58</td>
<td>42</td>
<td>0</td>
</tr>
<tr>
<td>To reduce the duration of each outbreak</td>
<td>34</td>
<td>66</td>
<td>0</td>
</tr>
<tr>
<td>To reduce the psychological distress of recurrent outbreaks to the patient</td>
<td>30</td>
<td>70</td>
<td>0</td>
</tr>
<tr>
<td>To reduce the psychological distress of the risk of transmitting genital herpes to a partner</td>
<td>25</td>
<td>75</td>
<td>0</td>
</tr>
</tbody>
</table>

Values are the number of doctors out of 151 who considered the factor when determining if suppressive therapy is appropriate.

### Table 4 Patient willingness to receive suppressive therapy (%)

<table>
<thead>
<tr>
<th>Patient willingness</th>
<th>Doctors (n = 151)</th>
<th>Patients* (n = 364)</th>
<th>p Value</th>
<th>Patient characteristics</th>
<th>Outbreaks past 12 months</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Years since diagnosis</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>0–1 (n = 37)</td>
<td>2–4 (n = 42)</td>
</tr>
<tr>
<td>Extremely/very willing</td>
<td>18</td>
<td>28</td>
<td>&lt;0.001</td>
<td>46</td>
<td>21</td>
</tr>
<tr>
<td>Somewhat willing</td>
<td>54</td>
<td>24</td>
<td></td>
<td>11</td>
<td>24</td>
</tr>
<tr>
<td>Not at all/not very willing</td>
<td>28</td>
<td>39</td>
<td></td>
<td>30</td>
<td>45</td>
</tr>
<tr>
<td>Don’t know</td>
<td>1</td>
<td>9</td>
<td></td>
<td>14</td>
<td>10</td>
</tr>
</tbody>
</table>

*Among patients who are not currently receiving suppressive therapy. All tests for group differences conducted using $\chi^2$ test.

### Discussion

This survey compares and contrasts attitudes and behaviours of family doctors and patients with regard to genital herpes. It identifies notable gaps that have relevance for improving educational efforts and the management of genital herpes.

The general knowledge of doctors and patients about the diagnosis, asymptomatic shedding and risk of transmission of genital herpes was disappointing. Clearly, there continues to be a need for education about the basic facts of this infection.

The 2006 Canadian Sexually Transmitted Infections Guidelines stress the importance of “sensitive, empathetic, knowledgeable counselling” as a component in improving the physical and psychological morbidity associated with genital herpes. Our study confirms that genital herpes carries a physical and emotional burden, and patients are more concerned with the risk of transmitting the virus than they are with recurrences. However, not all individuals experience the same degree of morbidity. Our results and those of others confirm that emotional distress is more pronounced among those with more recurrences, and, over time, people cope better with genital herpes. Doctors are aware of the negative psychological impact of genital herpes and reported that their patients experienced greater emotional impact than did the patients themselves. It is possible that, when evaluating emotional harm, doctors tended to think about newly diagnosed patients or those who experienced a greater number of outbreaks.

Doctors and patients differed in their accounts of how genital herpes was managed in the primary care setting. Doctors felt that they were more proactive and provided more information, especially on treatment and the risk of transmission, than was reported by patients. Perhaps information is being delivered, but patients do not comprehend the messages.

Both doctors and patients underestimated the risk of transmission during periods of asymptomatic viral shedding, 45% and 51%, respectively, versus 70% reported in the literature. This lack of information is reflected in patients’ behaviour of predominantly relying on abstinence during outbreaks to reduce the risk of transmission. Education that focuses on a better understanding of asymptomatic viral shedding and transmission reduction strategies is important.

There was also substantial disparity in the reported use of anti-viral therapy between doctors and patients. It is possible
that episodic therapy was under-reported given the focus on
drugs “currently” being taken to treat genital herpes. Patients
might not have considered themselves “current users” if they
were only taking anti-viral drugs with each recurrence.

Treatment guidelines acknowledge the benefits of sup-
pressive therapy for the prevention of recurrent outbreaks,
reduction of asymptomatic shedding, and valacyclovir speci-
cially to reduce the risk of transmission. Other research suggests
that patients report a strong preference for suppressive therapy,
independent of the reduction in transmission. However, in our
study only 9% of patients were receiving suppressive therapy.
Doctors reported discussing daily treatment with many of their
patients, but few patients recalled such a discussion. Moreover,
most patients said that they were willing to start suppressive
therapy. For doctors and patients, use of suppressive therapy
centred on outbreak reduction rather than reducing the risk of
transmission. Many patients were not considered for sup-
pressive therapy because their morbidity was not “severe enough”.
However, only 16% of patients experiencing six or more
outbreaks in the preceding year were receiving daily anti-viral
therapy. Another reason doctors cited for not prescribing anti-
viral drugs was cost, but this was reported as an impediment by
very few patients. These results are similar to those reported by
others and demonstrate a large discrepancy between knowl-
edge, guideline recommendations, and management practices.

Potential limitations of our study include the subject
sampling source, which may have resulted in the inclusion of
subjects who were more willing to discuss genital herpes and
were more engaged in treatment. The online consumer panel
was chosen because it provided a large sample source with high
response rates, providing an economical means of reaching
members of this population in a “safe” and anonymous
atmosphere. Internet-based research does not allow matching
of doctors and patients, but we believe that our sample is
representative of the two populations studied. A similar
recruitment strategy has been used by others.

CONCLUSION

Education for doctors and patients needs to clarify the efficacy
of available strategies to reduce asymptomatic shedding and the
risk of transmission including anti-viral therapy and condoms.
This can be achieved only if patients are empowered with
information and are able to have an informed and constructive
discussion with their doctor. Doctors recognise the emotional
impact of genital herpes and believe that they are providing
patients with choices on disease management. However,
patients are not recognising these choices. Doctors must ensure
that they are accurate and complete in their knowledge of
genital herpes and adapt their communication style so that
choices in disease management are truly shared with patients.
The challenge will be to educate both groups, with the goal of
achieving optimal genital herpes management and standard of
care as the norm not the exception. This standard of care should
include a laboratory-confirmed diagnosis, ongoing education
and discussion of genital herpes including basic disease
information, asymptomatic viral shedding and risk of transmis-
sion. Counselling and appropriate recommendations about
treatment based on morbidity, the psychological impact of

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