There is a Whole Lot of Searching Goin’ On: Health Information Seeking Practices of Canadians

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There is a Whole Lot of Searching Goin’ On: Health Information Seeking Practices of Canadians

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Web study results presented on behalf of the Quality Improvement of Literacy, Telecare and Self Help (QUILTS) Collaboration and the BC Ministry of Health
Overview

- Review health information-seeking patterns of Canadians
- Review findings of BC Ministry of Health self-care web site survey
- Explore how might information providers communicate more effectively with health care consumers
- Policy implications to consider when designing web sites
Searchin’ Statistics...

- BC has the highest level of Internet usage in the Country
  - 71% of BC households were regular users (2003)
    - Up 23% from 1999

- Rates similar in
  - Alberta (69%)
  - Ontario (68%)

- Lowest rates were found in
  - New Brunswick (53%)
  - Quebec (66%)
Still Broad “Digital Divide”

- Among households earning $70+
  - Almost all (90%) used the Internet

- In households earning less than $23,000
  - Only about a third (35% used the Internet)

- This rich/poor gap has increased from 1999 to 2003

- No difference in health-seeking patterns by income once a person has online access
“Cyberchondriacs”…what are they looking for?

Top three medical conditions researched on-line are:
  - Depression
  - Arthritis
  - Diabetes

Next come...allergies, migraine headaches & heart conditions

Six in ten say that they feel comfortable using drugs prescribed by a physician

  - 29% percent say they would stop taking the drug if they found negative
    information online

Canadians are divided on the question of whether drug advertising is a “good source of
information”

  - Quasi-sites add to this confusion...look like a health information site, but actually
    sponsored by drug company

NFOCF group, 2002
### Reasons for Accessing Internet - All Households

<table>
<thead>
<tr>
<th>Reason</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Email</td>
<td>52%</td>
</tr>
<tr>
<td>General browsing</td>
<td>49%</td>
</tr>
<tr>
<td>Accessing medical/health info</td>
<td>36%</td>
</tr>
<tr>
<td>Travel information/arrangement</td>
<td>34%</td>
</tr>
<tr>
<td>Government information</td>
<td>32%</td>
</tr>
<tr>
<td>View news</td>
<td>30%</td>
</tr>
<tr>
<td>Electronic banking</td>
<td>30%</td>
</tr>
<tr>
<td>Find sports-related info</td>
<td>25%</td>
</tr>
<tr>
<td>Purchasing goods/services</td>
<td>19%</td>
</tr>
</tbody>
</table>
The BC HealthGuide Program

BC HealthGuide Handbook
- 400 page handbook distributed free of charge to BC households (Spring 2001)

BC HealthGuide HealthFiles
- 170 fact sheets with information on a wide range of health & safety issues

BC NurseLine (24/7 access to nurses)
- BC is one of 8 CDN jurisdictions providing services

BC HealthGuide Online (www.bchealthguide.org)
- 3,000 common health concerns, including tests, procedures and other resources
Health Information’s Role in Primary Care Experience

- **Awareness**
  - Are residents aware of HealthGuide programs components?

- **Use / Satisfaction**
  - How / when are program components used within continuum of care? Is the information accessible? Are consumers satisfied?

- **Knowledge**
  - Do the components contribute to increased personal knowledge regarding health?

- **Choices**
  - How do the components affect decision-making?

- **Interactions**
  - Does access to information affect patient/provider interaction?

- **Care**
  - Is satisfaction with provision of care increased?

- **Results**
  - What is the impact of the program on the utilization of services? In a broader sense, what is the impact on the health system?

Source: QUILTS evaluation framework report
BC HealthGuide Program Goals

Program goals include:

- Improve consumer access to timely and accurate health information and advice
- Expand consumer knowledge in managing personal health risks and conditions
- Alleviate pressure on emergency and physician services due to inappropriate use
- Reduce costs due to inappropriate use of health care system
BC HealthGuide Research Strategy (Web Site)

- 4-Prong Research Strategy
  - Focus groups
    - Involved both English speakers/multi-lingual speakers
    - Who is using/not using?
    - Navigation patterns
    - Included physicians (both FP and ER)
  - Population-based telephone survey
    - Gauge awareness
  - Pop-up web survey
    - Develop profile of users
  - Key informant interviews of health care professionals
    - Are they aware of web site?
    - How do they use it, compared to their use of the printed materials?
Total document views to date: 28,507,231

Source: BC Ministry of Health
Focus Group Results

10 consumer groups held throughout the province

- Included both users of the program & non-users

- Navigation patterns
  - Majority use search engine (e.g., Google, MSN, Excite)
  - Web sites accessed included:
    - Ask Jeeves, Medline, Mayo Clinic, WebMD
    - Low awareness for BC HealthGuide, and government-sponsored web sites in general (about 1 in 10 were aware of the web site)

- Evaluation of information found
  - Using multiples sites
  - Using credible sites
Use of Information During Physician’s Visit

Does information affect an office visit?

- Physicians are “not happy”
  - Esp. “older physicians”

- Questions competency
  - Expected that the physician already knows the info

- Disincentive for physicians to support programs like the BC HealthGuide
  - Less business

- Consumer strategy – “hide” the written information, but bring up what they know in the conversation
Population Based Telephone Survey Results

Findings related to the BC HealthGuide Online:

- Used by 4% of British Columbians in the last year
- Utilization highest among
  - Men
  - Younger persons (18-34)
  - Higher-income households (over $30,000)
BC HealthGuide Program Component Awareness & Utilization

Source: QUILTS Evaluation Team, telephone survey, Jan 04
Geographic Distribution of Awareness/Usage of Web Site

Source: QUILTS Evaluation Team, telephone survey
Pop-up survey ran on web site from mid September 2004 through February 1, 2005

- 5,800 individuals were presented with survey
- Completed surveys = 2,927 (50% response rate)
- Convenience-based sampling as users of the site self-selected into our survey

User Profile

- 76% of respondents were female
- Most users (93.5%) were between 20 to 65 years old
  - Over 65+, more evenly divided by sex
With Respect to BC Population

Over- and Under-Representation among BCHG Online Users

Users over-represented on Vancouver Island and the North

Question is... what makes this so?

Source: QUILTS evaluation team, Web Survey
Percentages of Female and Male Respondents - by Age Group

Source: QUILTS evaluation team, Web Survey
BC HealthGuide Online User Profile

- About half of users (46%) had children under 19
- 14% of users were practicing health care professionals
- 87% had some college education or better
  - 39% had finished university
- 80% reported earnings of $30K or more
- About 50% never visited site previously in the last 6 months
  - So... lots of new users. Question is will they return?
  - About 30% had visited between 1 to 3 times
  - 9% had visited 8 times +
Self-Report Quality of Health of Users

Percentages of Self Rating of Health

Source: QUILTS evaluation team, Web Survey
Types of Health Information Sought

Types of Information Sought

Response count

Type of Information

- Latest health news
- BC HealthGuide Program
- Wellness and disease prevention
- Pregnancy
- General mental health
- General physical health
- A specific health problem
- Alternative and complementary therapies
- Prescription drugs
- OTC or non-prescription drugs
- Medical or laboratory tests and x-rays
- Support groups
- Accessing health services
- Location of health services
- Other
List of Health Problems Searched…

- Abdominal pain
- Back pain
- Cancer
- Chest pain
- Chicken pox
- Flu
- Headache
- Heart problems
- Diabetes, etc.

42% of all responses
Satisfaction

Younger users (10 – 19y) least satisfied
- Only 63% of this age group liked the site design

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Pick the Low Hanging Fruit...

Determine who is currently using your site, and design your information to target their needs in the short run

- Young people/families
  - High expectations for web sites
  - Work with existing health care agencies

- Health care professionals
  - Assist those who might encounter computer access issues

- Choose general “key words” to enable more users to find your web site
Pick the Low Hanging Fruit...

- Untapped audiences that are using the web...
  - College students/young adults
    - How best to reach this group as they approach entry into the “real world”?
    - In the case of BC HealthGuide, once they move out of the parents’ house, lose access to their copy of print guide
  - Workers
    - Hard to target
    - Healthy workforce = happy employers (?)
    - Is there interest by employers?
  - One day, access to health information in pharmacies (similar to blood pressure machines)
Policy Implications

Recognize that the Internet is **not a substitute** for other forms of information for all populations

- **Investment in other forms of information delivery** aimed at less educated, less affluent Canadians, and those with literacy barriers, is essential to universal, equitable health care.

- **Targeting seniors via the Web** continues to be a challenge

- **Rural/remote access**, while there in theory, still is a challenge
  - Computer sites in libraries are often very busy
  - Little privacy
“The hardest thing is to pick it [Handbook] up and read it, rather than asking the person next to you”

*Quote from Focus group participant*
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