Maybe the 55 Percent Rule Doesn’t Tell the Whole Story: A User-Satisfaction Survey

Carolyn W. Jardine

For many years the evaluation of reference service has focused on the accuracy with which patrons’ questions are answered. It has been suggested that an area that needs further study is the behavioral aspect of reference service, i.e., the interaction between reference librarian and patron. Patrons will judge the service they receive not only on whether or not they get what they came in for, but also on the reference librarian’s attitude, behavior, interest, and enthusiasm. This paper discusses a survey done at the University Library of the University at Albany as a study of reference success based solely on users’ satisfaction with librarians’ behaviors and, most important, users’ willingness to return to the same librarian for help another time. Results of this survey indicate that users’ satisfaction with reference service does depend on more than the accuracy with which their questions are answered.

I recently went into a local drugstore for some cough syrup. I wasn’t sure what would be the best kind and had to rely on the pharmacist, whose job it is to know about such things, for help. I eventually did get what I needed, but I had to wait for the pharmacist to notice I was there. He didn’t really seem to know much about what was available, and he was less than enthusiastic if not downright surly. Was my need—the right cough medicine—satisfied? Yes. Would I return to that particular pharmacist for help again if I had a choice? Probably not. Was the encounter successful? Well, it depends on how you define success. Strictly speaking, it could be considered successful because I got what I wanted. From a behavioral point of view, however, I was less than satisfied with the service I received and will think twice before returning to that drugstore in the future—something the manager should keep in mind when evaluating that particular pharmacist’s job performance.

And so it is—or should be—with libraries. Probably since the beginning of libraries, people have questioned the effectiveness of the services they provide and how to make them better. This is especially true of reference services, since the Reference or Information Desk is, in a way, the liaison between the library and the clientele it is there to serve; reference librarians can provide (or fail to provide)

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patrons with access to the information they expect to find. There has been much research into the accuracy with which reference librarians answer questions, and this is an ongoing concern of the library community. But there is a consensus among experts that there needs to be more emphasis on reference service as a whole, not just how accurately patrons' questions are answered.

There is a consensus among experts that there needs to be more emphasis on reference service as a whole, not just how accurately patrons' questions are answered. Or, in the words of one Reference Department head, "We must evaluate not only the answer, but the process as well."1

Research suggests that one area of the reference process which needs further study is the interaction between reference librarian and patron. The question of success rests not just upon "Did the patron get the correct information?" but also upon "Would the patron return to that librarian for help?" Did the librarian's attitude, behavior, interest, enthusiasm, etc., leave the patron with a good impression of the library's service, and of that librarian in particular, so that the patron would feel confident about approaching that librarian for help another time? Particularly in academic libraries, where often reference questions are not of a strictly factual nature, users' satisfaction with the service may depend as much or more on librarians' attitudes and behavior than on whether or not the librarian answered the question successfully. This paper discusses the design, administration, and results of a survey done at the University Library at the University of Albany as a study of "reference success" based solely on users' satisfaction with librarians' behaviors and, more importantly, users' willingness to return to the same librarian for help another time.

Literature Review
Research into the literature on evaluating reference service has revealed that (1) there is an enormous amount of it, and (2) very little of it relates specifically to evaluating service based primarily on users' satisfaction with librarians' attitudes and behavior. Many studies that have evaluated reference service based on the percentage of questions answered correctly have been done. So many, in fact that the "55 percent rule," which states that barely more than 55 percent of questions asked at a reference desk are answered correctly, has become somewhat of a cliché in library literature.2 As previously stated, experts seem to agree that more qualitative research into reference effectiveness needs to be done; quantitative evaluation, which tends to focus on numbers of reference questions asked and answered (successfully or unsuccessfully), does not reflect the whole picture of reference service, particularly with regard to academic libraries. The need for a more qualitative approach to evaluation of reference services is well documented in the literature: "the correct answer fill rate appears to be a useful, but [an] extremely limited, measure of reference performance"; "One needs to study the interaction between user and librarian"; "To provide a complete picture of the effectiveness of the reference librarian, any accountability measures need to evaluate...behavioral factors along with the accuracy of the final response"; and, "The most promising methodologies for evaluating reference service librarians are those that focus on what reference librarians do and how they do it, the evaluation of behaviors" (emphasis added).3-6

The need for qualitative research in the area of reference effectiveness appears well established and accepted. However, a search of recent literature turns up very little in the way of studies which focus on user satisfaction based primarily on "the evaluation of behaviors" by the users themselves, independent of whether
their questions were successfully or unsuccessfully answered. In a 1984 article reviewing research in reference effectiveness, Ronald Powell found that, “Few studies that have focused on the patron as the primary source of data on reference effectiveness have been reported in the literature.” In the nearly ten years since then, little seems to have changed. A few studies incorporated user evaluation of behaviors and attitudes of reference librarians as part of a larger overall analysis of reference effectiveness. These include: a comprehensive study of user satisfaction with reference services at the University of South Africa; a study in which videotapes of reference transactions were watched and evaluated by public library users; Linda Olson’s study of academic library reference services; and the work of Marjorie Murfin and Gary Gugelchuk on the development and testing of a “reference transaction assessment instrument” in fifteen academic libraries (especially worth mentioning in this context because their results showed a relatively high degree of user satisfaction). However, while these studies can all provide helpful insight into the evaluation of user satisfaction, as well as some concrete hints and models for testing methods, for the most part their hypotheses and methods are not directly relevant to this study because they include variables (such as number of questions answered correctly, or gender of librarian and observer) which this study did not. Recently, Patricia Hults cited a “study done in Maryland [which] concluded that the highest predictive factor of success is the individual librarian’s behavior such as reference question negotiation skill, librarian interest and comfort with the question and perhaps most importantly, follow up”; but a study reported in 1989 by Joan Durrance is probably the most relevant to the survey discussed in this paper both in method and in emphasis on behavioral factors. Although it was done unobtrusively and on a much larger scale (data were gathered by M.L.S. graduate students who posed as reference patrons in a variety of libraries and then filled out a questionnaire based on the reference transaction), Durrance’s study is particularly worth noting because “the measure chosen [to measure reference success] is the willingness of the inquirer to return to the same staff member at a later time,” and because she also reported a high degree of “patron” satisfaction: between 60 and 64 percent said that they would be likely to return to the same librarian for help another time.

Method of Investigation

Survey Design

In an attempt to determine the level of user satisfaction with reference services at the University at Albany University Library, based strictly on behavioral factors, the researcher surveyed patrons during the fall 1993 semester. Several considerations went into the design of this survey. First, the questions had to relate solely to the user’s appraisal of the librarian’s attitudes and behaviors during the reference interaction, with ultimate success or failure measured as the user’s willingness to return to that librarian in the future. The survey placed emphasis on behavioral characteristics of the librarians, such as interest, confidence, friendliness, and enthusiasm, as well as on the patrons’ degree of comfort and overall satisfaction with the librarians. A ratings scale of 1–5 was used, with one being high and five low. The variable “Was your question satisfactorily answered?” was included in the survey, not as the primary issue but as one of several

The survey placed emphasis on behavioral characteristics such as interest, confidence, friendliness, and enthusiasm, as well as on the patrons’ degree of . . . overall satisfaction with the librarians.
factors to be considered when analyzing responses to the main question, "If you had a choice, would you return to this librarian for help another time?" Environmental considerations, such as number of librarians on duty, number present at the desk, and amount of time it took to be helped, were included in the survey as factors which certainly influence users', as well as librarians', attitudes. Less critical but still important, the physical design of the survey kept it as short as possible, to encourage maximum participation and completion, while still incorporating all questions considered necessary for the patron to give an accurate, as well as fair, evaluation of the librarian's service. In addition, the design of the survey purposely avoided any items that would encourage identification or make it possible to identify individual librarians. The intent of the survey was to evaluate behavioral aspects of the reference service as a whole rather than of any particular staff member. The design of the survey and some of the questions included were modeled in part on the previously cited work by Olson, Durrance, and Murfin and Gugelchuk.

Data Collection
A graduate student who was stationed behind the reference desk handed out the surveys and approached patrons upon completion of a reference transaction, asking for voluntary participation in the survey. Patrons who asked questions such as "Where is the restroom?" were not surveyed, nor were those who left the building or went to another floor of the library before they could be approached. Other than that, the student attempted to ask as many patrons as possible to participate in the survey, making no distinctions between short and long questions, which librarian was asked, or patrons who "seemed" satisfied and those who didn't.

Originally, the researcher intended, based on the size of the student population at the University at Albany, to collect approximately 200 completed surveys for this research. Ultimately, because of time constraints on the project, it was not possible to distribute that many surveys. At the end of the two-week time period allotted for data collection, 111 surveys had been distributed. Six were not returned and five were returned incomplete, invalidating them, which resulted in a total of 100 completed surveys. This is admittedly a statistically suspect number but, while it did simplify analysis of the results, it was purely coincidental. The surveys were distributed at times scheduled to represent all operating hours of the reference desk (i.e., both busy and quiet) and all staff as equally as possible. People were surprisingly cooperative; less than ten percent of those asked to fill out a survey refused and those who did almost all cited lack of time as the reason.

Data Analysis
Initial returns showed a high degree of user satisfaction as measured by this survey. Results continued to be high and, by the completion of the administration of the survey, fully 99 percent of the respondents had said they would return to the same librarian for help another time—impressive results, especially as that particular question was considered the most important of the survey. (A sample survey, with a breakdown of the raw data, is available from the author.)

Although 99 out of 100 respondents said they would return to the same librarian and all other results were very favorable, it is worth looking at how patrons' satisfaction and comfort ratings compare with their ratings of the behavioral traits. That is, how did a patron who was only marginally satisfied overall (a 3 or 4 rating) rate the librarian as far as knowledge, friendliness, etc.? Conversely, how did those very satisfied and comfortable patrons rate the behavioral traits? Tables 1 and 2 show, for each of the ratings (1-5, with 1 being high and 5 being low) on the Degree of Comfort and Overall Satis-
### TABLE 1
Degree of Comfort

(Number of patrons responding in each category
[1=High, 5=Low] on Question 6)

<table>
<thead>
<tr>
<th></th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>(69)</td>
<td>(24)</td>
<td>(6)</td>
<td>(1)</td>
<td>(0)</td>
</tr>
<tr>
<td>Knowledgeable</td>
<td>1.2</td>
<td>1.4</td>
<td>2.2</td>
<td>4</td>
<td>N/A</td>
</tr>
<tr>
<td>Self-confident</td>
<td>1.3</td>
<td>1.6</td>
<td>2.3</td>
<td>4</td>
<td>N/A</td>
</tr>
<tr>
<td>Helpful</td>
<td>1.1</td>
<td>1.3</td>
<td>1.5</td>
<td>4</td>
<td>N/A</td>
</tr>
<tr>
<td>Friendly</td>
<td>1.2</td>
<td>1.7</td>
<td>1.5</td>
<td>4</td>
<td>N/A</td>
</tr>
<tr>
<td>Patient</td>
<td>1.1</td>
<td>1.6</td>
<td>1.7</td>
<td>4</td>
<td>N/A</td>
</tr>
<tr>
<td>Interested</td>
<td>1.3</td>
<td>1.8</td>
<td>1.8</td>
<td>4</td>
<td>N/A</td>
</tr>
<tr>
<td>Enthusiastic</td>
<td>1.7</td>
<td>2.0</td>
<td>2.0</td>
<td>4</td>
<td>N/A</td>
</tr>
</tbody>
</table>

Numbers in the Table represent average behavioral trait ratings given by category respondents.

### TABLE 2
Degree of Satisfaction

(Number of patrons responding in each category
[1=High, 5=Low] on Question 7)

<table>
<thead>
<tr>
<th></th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>(73)</td>
<td>(22)</td>
<td>(3)</td>
<td>(2)</td>
<td>(0)</td>
</tr>
<tr>
<td>Knowledgeable</td>
<td>1.2</td>
<td>1.7</td>
<td>3.0</td>
<td>2.5</td>
<td>N/A</td>
</tr>
<tr>
<td>Self-confident</td>
<td>1.3</td>
<td>1.8</td>
<td>3.0</td>
<td>2.5</td>
<td>N/A</td>
</tr>
<tr>
<td>Helpful</td>
<td>1.1</td>
<td>1.5</td>
<td>1.6</td>
<td>2.5</td>
<td>N/A</td>
</tr>
<tr>
<td>Friendly</td>
<td>1.2</td>
<td>1.6</td>
<td>1.6</td>
<td>3.5</td>
<td>N/A</td>
</tr>
<tr>
<td>Patient</td>
<td>1.2</td>
<td>1.6</td>
<td>2.0</td>
<td>3.0</td>
<td>N/A</td>
</tr>
<tr>
<td>Interested</td>
<td>1.3</td>
<td>1.9</td>
<td>2.0</td>
<td>3.5</td>
<td>N/A</td>
</tr>
<tr>
<td>Enthusiastic</td>
<td>1.5</td>
<td>2.0</td>
<td>2.7</td>
<td>4.0</td>
<td>N/A</td>
</tr>
</tbody>
</table>

Numbers in the Table represent average behavioral trait ratings given by category respondents.
TABLE 3
Overall Average for Behavioral Traits

<table>
<thead>
<tr>
<th>Trait</th>
<th>Average</th>
</tr>
</thead>
<tbody>
<tr>
<td>Knowledgeable</td>
<td>1.4</td>
</tr>
<tr>
<td>Self-confident</td>
<td>1.5</td>
</tr>
<tr>
<td>Helpful</td>
<td>1.2</td>
</tr>
<tr>
<td>Friendly</td>
<td>1.4</td>
</tr>
<tr>
<td>Patient</td>
<td>1.3</td>
</tr>
<tr>
<td>Interested</td>
<td>1.5</td>
</tr>
<tr>
<td>Enthusiastic</td>
<td>1.8</td>
</tr>
</tbody>
</table>

(1=High, 5=Low)

The results of the survey revealed that librarians who helped them. As for the four people who responded that their questions had not been answered satisfactorily, three of them said that they were "very satisfied" and "very comfortable" with the librarian who helped them, and indicated in the comments section that the fault was not with the librarian but rather because the information they sought was unavailable. Conversely, 94 patrons did have their questions satisfactorily answered but only 72 patrons said they were "very satisfied" overall.

The Results

Obviously, we could not have asked for better results, with a 99 percent success rate and very high ratings for the behavioral traits and overall satisfaction. This does, of course, bring up the question of the Hawthorne phenomenon. Did these librarians, who were certainly aware of the survey being done, change their normal behaviors so that the study would reflect only positive opinions about them? The researcher addressed this concern during the planning stages of this project, when the merits of a study of this type were weighed against the possibility of unrealistic results. The department head, knowing the professionals on the staff, felt that although they might initially be aware of the survey being done, they would not consciously alter their behavior, and believed that this survey would give an accurate picture of the reference service provided by the staff. It is thought that this was in fact what happened—that the librarians, serving patrons at a busy reference desk and not able to be sure which patrons would participate in the survey, were too absorbed in their work...
to be artificially helpful, enthusiastic, or friendly. However, whether or not any of these librarians did treat patrons differently because of the survey being done, the effect on the patrons remains the same. The central question of this study focused on patrons' satisfaction with librarians' behaviors, regardless of the motivation behind those behaviors.

The averages for the behavioral characteristics—which all fell between the highest and next highest possible rating—show that patrons gave the librarians the highest marks for helpfulness and patience, and the lowest for self-confidence and enthusiasm. In fact, one patron noted, "I don't believe I've ever met an enthusiastic librarian," and the ratings seem to show that her fellow patrons shared her view. Enthusiasm received by far more middle-to-low ratings than any of the other behavioral characteristics on the survey. However, as the overall average rating for enthusiasm was still better than two, on a scale of 1–5, this is hardly cause for serious alarm—just something to keep in mind.

Overall, it seems safe to say that users of the University Library reference service are remarkably satisfied with the service. It also is safe to say, based on this survey, that patron satisfaction does indeed rest on more than simply answering questions correctly. Fewer than 75 percent of the patrons who indicated that their questions were answered correctly said they were "very satisfied" overall with the librarians who helped them, so slightly more than 25 percent of the patrons who had their questions correctly answered were still not completely satisfied with the service they received.

Conversely, of the six patrons who did not indicate that their questions were answered satisfactorily, five of them still were "Very Satisfied" (the highest rating) with the librarian who helped them. Obviously, things like patience, friendliness, and enthusiasm do influence a patron's overall impression of a librarian. From table 4 it can be seen that of the ninety-four patrons whose questions were satisfactorily answered, those who were most satisfied with the service they received gave higher overall ratings to the behavioral traits than those who indicated that they were less than completely satisfied. Since all of these patrons said they did receive the information they were looking for, it can be inferred that the differences in their overall satisfaction were because of their perception of the librarian's knowledge, interest, friendliness, etc.

It will be noted that there is no discussion of the results with regard to the time of day the surveys were filled out, number of librarians on duty, how long a patron had to wait, etc. This is primarily because these factors had little influence on patrons' overall satisfaction. Re-
responses did not differ statistically for different times of day; patrons seemed equally satisfied whether the desk was quiet or busy, and whether they had to wait a short time or not at all (no patrons said they had to wait a "long time").

Conclusion
It should be remembered that this was a very small study, with a very narrow purpose. We wanted to find out how satisfied patrons are, based on behaviors, with the librarians who staff the reference desk at the University Library, so we asked them. And what they told us is, "We are very satisfied (but you could be a little more enthusiastic)."

It is thought that . . . the librarians, serving patrons at a busy reference desk, . . . were too absorbed in their work to be artificially helpful, enthusiastic, or friendly.

It is hard to say whether the impressive results of this survey would be duplicated elsewhere or even whether the results would be the same were the identical survey to be done again in this library. For our purposes, it can be considered successful in that (1) it gave us a good indication of how patrons feel about the reference librarians, and (2) showed that patrons do, indeed, take attitudes and behavior into account when assessing their overall satisfaction with those librarians. For others interested in evaluation of reference service and personnel, a survey of this type can provide valuable information from the patron's point of view. If it is true that "library users are . . . almost invariably satisfied with reference service" (and what is wrong with that?), it still is worth looking at why.14

There are probably those who would be tempted to discount the results of a survey that shows a 99 percent satisfaction rate with reference librarians, especially a survey such as this which is based on evaluation of the librarians by the patrons themselves. It has been suggested by more than one writer in the area of reference evaluation that patrons are not reliable judges of the services libraries provide and that "library users seldom possess the expertise to evaluate the quality of reference service."15 There are others, however, who would agree with George D'Elia and Sandra Walsh, who wrote in their article "User Satisfaction With Library Service" that "the user, as the ultimate consumer of these services, is most qualified to evaluate the performance of these services."16 Patrons will judge, and obviously do judge, the services librarians provide, and the library profession as a whole needs to acknowledge its clientele's judgment and be responsive to it.

Notes
5. Tyckoson, "Wrong Questions," 159.


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