What Patients Want From Primary Care Consultations: A Discrete Choice Experiment to Identify Patients' Priorities

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ABSTRACT

PURPOSE The consultation is fundamental to the delivery of primary care, but different ways of organizing consultations may lead to different patient experiences in terms of access, continuity, technical quality of care, and communication. Patients' priorities for these different issues need to be understood, but the optimal methods for assessing priorities are unclear. This study used a discrete choice experiment to assess patients' priorities.

METHODS We surveyed patients from 6 family practices in England. The patients chose between primary care consultations differing in attributes such as ease of access (wait for an appointment), choice (flexibility of appointment times), continuity (physician's knowledge of the patient), technical quality (thoroughness of physical examination), and multiple aspects of patient-centered care (interest in patient's ideas, inquiry about patient's social and emotional well-being, and involvement of patient in decision making). We used probit models to assess the relative priority patients placed on different attributes and to estimate how much they were willing to pay for them.

RESULTS Analyses were based on responses from 1,193 patients (a 53% response rate). Overall, patients were willing to pay the most for a thorough physical examination ($40.87). The next most valued attributes of care were seeing a physician who knew them well ($12.18), seeing a physician with a friendly manner ($8.50), having a reduction in waiting time of 1 day ($7.22), and having flexibility of appointment times ($6.71). Patients placed similar value on the different aspects of patient-centered care ($12.06-$14.82). Responses were influenced by the scenario in which the decision was made (minor physical problem vs urgent physical problem vs ambiguous physical or psychological problem) and by patients' demographic characteristics.

CONCLUSIONS Although patient-centered care is important to patients, they may place higher priority on the technical quality of care and continuity of care. Discrete choice experiments may be a useful method for assessing patients' priorities in health care.

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INTRODUCTION

Health care professionals are encouraged to deliver patient-centered services. In health policy terms, this refers to services "closely congruent with, and responsive to patients’ wants, needs and preferences."

Patient-Centered Services

In primary care, the physician-patient consultation is the fundamental platform for service delivery. Making consultations more congruent with patients’ preferences can be achieved through a number of mechanisms, such as competition among health care professionals and measurement.
and feedback of patients’ satisfaction. Achieving congruence is complicated, however, because of the many attributes of primary care consultations that are important to patients. For example, patients want rapid access to professionals and high-quality technical and interpersonal care. Meeting expectations concerning a range of attributes may be difficult within the constraints of limited budgets, however. For example, relational continuity (ie, the ability “to provide 1 or more named professionals with whom the patient can develop a therapeutic and interpersonal relationship”) may be jeopardized if services prioritize rapid access.

The range of attributes that are important to patients is relatively well known; however, designing services that are sensitive to patients’ preferences in the context of limited resources may require patients to choose between attributes. This reality has led to interest in methods of assessing priorities. One promising method is the discrete choice experiment, used in psychology, marketing, and economics. Discrete choice experiments are based on the assumption that services (such as consultations) can be described by their attributes, and the value of a service depends on the nature and level of these attributes. Individuals are presented with alternative hypothetical services consisting of a number of attributes with different levels, and are asked to choose between them. Discrete choice experiments can ascertain individuals’ priorities by estimating the relative importance of different attributes to them.

Patient-Centered Care
Two key dimensions of the quality of primary care are technical care (ie, the quality of clinical care) and interpersonal care (ie, the quality of communication between professional and patient). Health care professionals’ communication skills are often described under the broad label of patient-centered care, which encompasses a number of communication issues, including (1) giving attention to biological, psychological, and social aspects of health (biopsychosocial perspective), (2) exploring the personal meaning of illness (patient as person), (3) increasing the involvement of patients in their care (sharing power and responsibility), and (4) giving greater priority to the personal relationship between physician and patient (attending to the therapeutic alliance).

Although the evidence linking patient-centered care to improved patient outcomes is somewhat ambiguous, considerable scientific, ethical, and professional momentum supports the adoption of a patient-centered care model. Discrete choice studies in primary care show that communication is highly valued. A small preconsultation survey (N = 101 patients) found that “being able to talk to the doctor” was more important than other attributes such as waiting times, involvement in decision making, and the type of explanation received, and this finding was replicated in a larger postal survey (N = 734 patients). Similar results have been reported in studies of care outside of routine hours.

The attributes used to test the priorities placed on patient-centered care in published studies have not accurately reflected the complexity of the patient-centered care concept, however. Only 1 study has tested patients’ preferences for a specific aspect of patient-centered care, namely, shared decision making. That study found that although patients with chronic disease valued shared decision making, it was less of a priority than whether the physician seemed to listen.

The high priority patients place on communication issues nonetheless requires critical examination. Many studies do not include a measure of technical care, and patients may assume that technical care is of high quality if there is no suggestion to the contrary. A study from the United States that asked patients to choose between physician report cards differing on interpersonal and technical care found that more patients chose the physician with high technical care scores; however, the methods used in this study were unable to estimate the relative importance of different attributes. Another discrete choice study also reported that technical care was the most important factor in determining patient choice of a physician (accounting for 27% of the variance), compared with waiting time (15%), billing problems (20%), time to get a referral (18%), and who made health care decisions (20%).

If service delivery is to be acceptable to patients, policy makers need to understand patients’ priorities. The published literature does not clearly define the relative importance patients place on attributes such as technical and interpersonal care. In this study, we used a discrete choice experiment to comprehensively assess patients’ priorities for a range of attributes of primary care consultations, including access, technical care, continuity, and multiple attributes relevant to patient-centered care.

METHODS
A discrete choice experiment can be described in terms of a number of key stages: (1) selection of attributes, levels, and scenarios, (2) experimental design and construction of choice sets, (3) measurement of preferences, (4) estimation procedure, and (5) tests of the validity of responses. Each stage is described below.

Selection of Attributes, Levels, and Scenarios
We developed candidate attributes and levels from a “map” of concepts relating to primary care developed...
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through a theoretical and empirical review.\textsuperscript{24} We then used qualitative “think aloud” techniques\textsuperscript{25} to test patients’ comprehension of these candidate attributes\textsuperscript{26} and conducted a quantitative pilot study among 30 patients to test the questionnaire’s properties.

On the basis of the final list of quality concepts, attributes, and levels, we generated 2 discrete choice questionnaires: a generic version (including a wide range of attributes of relevance to primary care) and a version focused on patient-centered care (Table 1). Our decision to use 2 questionnaires was made on both theoretical and practical grounds. As highlighted earlier, primary care quality has multiple dimensions, and we wanted to provide a comprehensive assessment of patients’ priorities; however, we also were specifically interested in the issue of patient-centeredness, itself a multidimensional concept.\textsuperscript{10} Our desire to capture both the breadth of quality and the depth of issues relating to patient-centeredness led to a list of dimensions that would have been prohibitive for a respondent to complete. We therefore created 2 questionnaires. Some items were common to both (Table 1), to allow comparison across the 2 questionnaires.

To obtain an easily interpretable metric for assessing priorities and to further facilitate comparisons of priorities across the 2 different questionnaires, we used a cost attribute to assess how much patients were willing to pay for each attribute. Patients do not pay for services at the point of delivery in the United Kingdom, and we informed patients that the cost attribute was used simply to assess perceived value.

We created 3 scenarios to examine the effect of context on decision making: a minor physical problem scenario, an urgent physical problem scenario, and an ambiguous physical or psychological problem scenario (Table 2). These scenarios differed in terms of perceived urgency and the likelihood that psychological factors were involved.

**Experimental Design and Construction of Choice Sets**

Both the generic and the patient-centered care questionnaires included two 4-level attributes and four 2-level attributes (Table 1), giving the full factorial design 256 possible combinations of levels. To provide a manageable task for respondents, we used the D-optimality criterion to maximize the efficiency of the design.\textsuperscript{27,28} Sixteen choice sets with 2 alternatives were constructed using the CHOICEFF SAS macro (SAS Institute, Cary, North Carolina).\textsuperscript{29} To make the questionnaire more manageable, we randomly blocked 16 choice sets into 2 sets of 8 choices.

**Measurement of Preferences**

We presented each respondent with either the generic or the patient-centered care questionnaire, with 2

| Quality Concept                  | Attribute                          | Levels                                                                 |
|----------------------------------|------------------------------------|-----------------------------------------------------------------------|
| **Generic questionnaire**        |                                    |                                                                       |
| Access                           | Number of days wait for an appointment\textsuperscript{*} | Same day, next day, 2 days, 5 days                                   |
| Cost                             | Cost of appointment to patient\textsuperscript{*} | £0, £8, £18, £28 ($0, $16.27, $36.60, $56.93)                          |
| Choice                           | Flexibility of appointment times   | One appointment offered                                               |
| Interpersonal care               | Physician’s interpersonal manner   | Warm and friendly                                                     |
| Relational continuity            | Physician’s knowledge of the patient\textsuperscript{*} | The doctor has access to your medical notes and knows you well        |
| Technical care                   | Thoroughness of physical examination | The doctor gives you a thorough examination                           |

| **Patient-centered care questionnaire** |                                    |                                                                       |
| Access                           | Number of days’ wait for an appointment\textsuperscript{*} | Same day, next day, 2 days, 5 days                                   |
| Cost                             | Cost of appointment to patient\textsuperscript{*} | £0, £8, £18, £28 ($0, $16.27, $36.60, $56.93)                          |
| Relational continuity            | Physician’s knowledge of the patient\textsuperscript{*} | The doctor has access to your medical notes and knows you well        |
| Patient-centered care            | Patient perspective                | The doctor is interested in your own ideas about what is wrong        |
| Patient-centered care            | Biopsychosocial perspective        | The doctor asks about your social and emotional well-being as well as physical symptoms |
| Patient-centered care            | Shared decision making            | The doctor does not involve you in decisions about treatment          |

\textsuperscript{*}Attributes shared across questionnaires.
sets of 8 choices relating to 2 of 3 scenarios. One additional choice set in each scenario repeated the first choice set; this additional set was used to assess respondents’ consistency only and was excluded from the main analysis. The order of the choice sets was reversed in one-half of the questionnaires to reduce ordering effects. An example of the decision-making task, the attributes, and the scenarios presented to respondents is shown in Figure 1. Each patient was asked to complete 18 such decision-making tasks (16 different tasks plus repetition of 2 of the 16 to assess consistency of response).

This study was approved by the local research ethics committee. We approached practices in Greater Manchester, England, to participate. Six volunteer practices were selected and stratified by practice size and a composite measure of various deprivation indices. Patients were randomly selected from practice lists and stratified by sex and 3 age bands (18-35, 36-59, and ≥60 years). We mailed each patient 1 of the 24 different versions of the questionnaire with an information sheet, and mailed written reminders 4 and 8 weeks later.

There are no formal sample size calculations for discrete choice experiments, but a conventional heuristic suggests use of 50 patients per subgroup in the analysis. We assumed 6 subgroups. Because each patient completed 2 of 3 scenarios, we needed 450 responses per questionnaire to ensure that 300 responses were available per scenario. On the assumption of a 40% response rate, we sent each questionnaire to 1,125 patients, for a total of 2,250 patients.

**Estimation Procedure**
We analyzed data using probit models, a conventional approach in the analysis of discrete choice experiments. We also calculated random effects probit models, which provide more accurate estimates of coefficients when responses from the same patients are correlated. Confidence intervals for willingness to pay

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**Table 2. Scenarios**

| Scenario Description                                      | Option A                                                                 | Option B                                                                 |
|-----------------------------------------------------------|-------------------------------------------------------------------------|-------------------------------------------------------------------------|
| Minor physical problem                                    | - You can be seen by the doctor on the same day                          | - You can be seen by the doctor in 5 days’ time                          |
|                                                           | - This appointment would cost you £0 ($0)                                | - This appointment would cost you £18 ($36.60)                           |
|                                                           | - The doctor has access to your medical notes but does not know you     | - The doctor has access to your medical notes and knows you well        |
|                                                           | - The doctor is interested in your own ideas about what is wrong        | - The doctor is not interested in your own ideas about what is wrong    |
|                                                           | - The doctor asks about your social and emotional well-being as well as you   | - The doctor asks about your physical symptoms only                      |
|                                                           | - The doctor asks about your physical symptoms as well as your physical symptoms | - The doctor involves you in decisions about treatment                   |
|                                                           | - The doctor does not involve you in decisions about treatment           |                                                                         |
| Urgent physical problem                                   |                                                                         |                                                                         |
| Ambiguous physical or psychological problem              |                                                                         |                                                                         |

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**Figure 1.** Structure of the discrete choice questionnaire.
were estimated using the method of Fieller. 30
We conducted an analysis weighted for non-
response. We also carried out preplanned
assessments of statistical interactions between
attributes and demographic characteristics
to examine whether particular characteristics
were associated with patients’ priorities. All
statistical analyses were performed using Stata
9 (StataCorp, College Station, Texas).

Tests of the Validity of Responses
Discrete choice experiments assume that indi-
viduals give rational responses (ie, consider all
available information and make decisions on
the basis of maximizing utility) and are willing
to trade between choices.31 We tested these
assumptions using (1) tests of consistency, to
assess whether respondents always chose the
same alternatives when presented with identi-
cal choice sets, and (2) tests of lexicographic
preferences, to assess whether respondents
always chose the alternative with the best level
of a particular “favored” attribute, suggesting
an unwillingness to trade between attributes.31

RESULTS
Practice and Patient Characteristics
The 6 practices participating in the study ranged
in size from 1 to 8 general practitioners. Of the 25
general practitioners, 12 (48%) were male, 13 (52%)
were younger than 45 years of age, and 16 (64%)
had obtained their medical degree in the United Kingdom.

The overall response rate to the questionnaire
among patients was 53% (generic version, 55.8%;
patient-centered care version, 50.2%). Response varied
with age and sex: response rates were 32.8%, 45.9%,
and 72.8% among men aged 18 to 35, 36 to 59, and
60 years or older, respectively, and 40.3%, 64.3%, and
62.1% among women in these age groups. There was
a small amount of additional missing data for some
characteristics (eg, age, income, and long-term illness
status). The demographic characteristics of the 1,193
respondents are shown in Table 3.

Consistency and Willingness to Trade
On the generic questionnaire, 8.1% of respondents
failed the consistency test for 1 scenario, and 0.6% failed
the test for both scenarios in the questionnaire.
The respective rates for the patient-centered care ques-
tionnaire were 13.3% and 1.8%. Patients who failed
consistency tests were included in the main analy-
sis, although their responses to the extra choice set
included as the consistency test were excluded.

There was evidence that respondents were unwill-
ing to trade between attributes on 26.6% of the
generic questionnaires and 20.2% of the patient-cen-
tered care questionnaires. Attributes commonly associ-
ated with an unwillingness to trade were cost, waiting
time, and thoroughness of examination.

Generic Questionnaire
Relative Importance Placed on Attributes
All attributes had coefficients that were significantly
different from 0 (indicating that the attributes influ-
enced decision making) and of the expected sign
(Table 4).

The willingness to pay estimates are the most easily
interpretable measure of the relative importance placed
on attributes and are shown in Table 5. As examples, a
willingness to pay for waiting time of −$7.22 indicates
that patients are on average willing to pay $7.22 for a
1-day reduction in waiting time, and a willingness to
pay for seeing a physician who knows the patient well
of $12.18 indicates that patients are on average willing
to pay $12.81 to see such a physician.

Thoroughness of physical examination was the
most important attribute, followed by a physician who
knew the patient well, a physician whose manner was
warm and friendly, and a reduction in waiting time of 1

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Table 3. Demographic Characteristics of the Patient Sample

| Characteristic                                      | Generic Questionnaire (n = 628)* | Patient-Centered Care Questionnaire (n = 565)* |
|----------------------------------------------------|----------------------------------|-----------------------------------------------|
| Female, %                                           | 55.0                             | 52.4                                          |
| Age, mean (SD), years                               | 52.5 (17.9)                      | 53.0 (18.3)                                   |
| Number of dependent children in household, %        |                                  |                                               |
| 0                                                  | 70.1                             | 71.7                                          |
| 1-2                                                | 26.4                             | 23.6                                          |
| ≥3                                                 | 3.5                              | 4.7                                           |
| Household income, %                                 |                                  |                                               |
| <£20,000                                           | 49.1                             | 45.9                                          |
| £20,000-£39,999                                     | 35.1                             | 34.4                                          |
| £40,000-£59,999                                     | 11.5                             | 14.7                                          |
| ≥£60,000                                           | 4.3                              | 4.9                                           |
| Have a long-term illness, %                         | 46.1                             | 45.7                                          |
| White, %                                           | 94.7                             | 95.7                                          |
| Overall health is “good” or “very good,” %         | 59.5                             | 63.3                                          |
| Number of visits to physician in past 12 months, %  |                                  |                                               |
| ≤2                                                 | 44.4                             | 50.5                                          |
| 3-4                                                | 26.7                             | 24.3                                          |
| ≥5                                                 | 28.9                             | 25.2                                          |
| Own/have a mortgage on their residence, %           | 76.2                             | 76.7                                          |

*Total number of respondents in the estimation sample. Where variables have missing val-
ues, the percentages are calculated based on the nonmissing observations.
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day, and flexibility of appointment times. The estimates of the random effects probit model (Supplemental Appendix 1, available online-only at http://www.annfammed.org/cgi/content/full/6/2/107/DC1) were very similar to the estimates of the probit models in all cases.

Variation in the Importance of Attributes Across Scenarios

Across scenarios, patients were willing to pay the most for a short waiting time in the urgent physical scenario, whereas they were willing to pay the most to see a physician who knew them well in the ambiguous physical/psychological scenario (Table 5). Choice of appointment was not a significant contributor to decisions in the ambiguous physical/psychological scenario, but was more highly valued in the urgent physical scenario. A thorough examination was always the most important attribute relative to others regardless of the scenario, but its value was greatest in the urgent physical scenario and least in the minor physical scenario.

Patient-Centered Care Questionnaire

Relative Importance Placed on Attributes

The coefficients and willingness to pay estimates for the patient-centered care questionnaire are shown in Tables 4 and 5, respectively. Seeing a physician who knew the patient well was most important, followed by seeing a physician who was interested in the patient’s ideas, who asked about social and emotional issues, and who involved them in decisions, and having to wait 1 less day to be seen (Table 5). There was less variation in estimates of how much patients were willing to pay in the patient-centered care questionnaire compared with the generic questionnaire. The estimates of the random effects probit model (Supple-
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Variation in the Importance of Attributes Across Scenarios

Across scenarios, a short waiting time was more important in the urgent physical scenario (Table 5). Seeing a physician who asked about social and emotional issues was least highly valued in this scenario but valued most in the ambiguous physical/psychological scenario. Seeing a physician who knew the patient well was more important to patients in the urgent physical scenario, whereas shared decision making was more so in the ambiguous physical/psychological scenario.

Influence of Demographic Characteristics

Age, household income, and having a long-term illness influenced patients’ priorities, on both the generic questionnaire and the patient-centered care questionnaire. Detailed results are presented in Supplemental Appendix 2 (available online-only at http://www.annfammed.org/cgi/content/full/6/2/107/DC1).

DISCUSSION

In terms of generic attributes of primary care consultations, patients valued thoroughness of physical examination most highly, followed by seeing a physician who knew them well, seeing a physician with a friendly manner, having a reduction in waiting time of 1 day, and having flexibility in selecting appointment times. Patients placed similar value on different attributes of patient-centered care, although the highest value was placed on seeing a physician who knew them well, followed by seeing a physician who was interested in their ideas, one who asked about social and emotional issues, and one who involved them in decisions.

Methodologic Issues

Our results are based on responses from primary care patients in the United Kingdom, and they may not be generalizable to patients in different settings, where priorities for certain aspects of care (such as waiting times) might differ considerably. Preferences for aspects of patient-centered care might be expected to be more stable across settings, given the consistent experience of the physician-patient relationship; however, our findings clearly require replication in other contexts. The inclusion of the cost attribute has considerable advantages in terms of interpreting the results, but it must be reiterated that patients in the United Kingdom do not routinely pay for health care at the point of delivery, and therefore the interpretive advantages may be offset by some loss of validity.

Previous discrete choice studies in the primary care

Table 5. Willingness to Pay Estimates Derived From Discrete Choice Models

| Attribute                        | All Scenarios | Ambiguous Physical/ Psychological Scenario | Minor Physical Scenario | Urgent Physical Scenario |
|----------------------------------|---------------|---------------------------------------------|--------------------------|--------------------------|
| Waiting time, days               | –7.22 (–7.89 to –6.61) | –3.35 (–4.49 to –2.24) | –3.35 (–4.19 to –2.54) | –18.48 (–20.96 to –16.39) |
| Doctor knows you well            | 12.18 (10.15 to 14.29) | 19.11 (15.39 to 23.10) | 9.60 (6.95 to 12.34) | 11.47 (6.59 to 16.79) |
| You get a choice of appointment times | 6.71 (4.72 to 8.72) | 1.99 (−1.50 to 5.59) | 5.49 (2.85 to 8.19) | 12.04 (7.20 to 17.32) |
| Doctor is warm and friendly      | 8.50 (6.55 to 10.49) | 9.17 (5.75 to 12.71) | 8.58 (5.98 to 11.22) | 6.14 (1.50 to 10.88) |
| Doctor gives you a thorough physical examination | 40.87 (36.43 to 43.45) | 47.88 (43.39 to 52.88) | 27.39 (24.62 to 30.29) | 59.76 (52.62 to 68.38) |
| Doctor knows you well            | 17.77 (15.82 to 19.80) | 17.81 (14.54 to 21.23) | 16.86 (14.07 to 19.74) | 21.21 (16.83 to 26.00) |
| Doctor is interested in your ideas | 14.82 (12.93 to 16.77) | 16.35 (13.13 to 19.76) | 14.31 (11.59 to 17.14) | 15.86 (11.81 to 20.15) |
| Doctor asks about your social and emotional well-being | 12.61 (10.69 to 14.54) | 23.54 (20.19 to 27.08) | 9.17 (6.42 to 11.93) | 5.33 (1.30 to 9.37) |
| Doctor involves you in decision making | 12.06 (10.19 to 13.99) | 15.31 (12.12 to 18.68) | 10.55 (7.87 to 13.30) | 10.98 (6.97 to 15.21) |

CI = confidence interval.

Note: All estimates were originally made in pounds and were converted to dollars based on £1 = $2.033.
setting have had response rates of 18% to 76%. Our response rate of 53% was reasonable given a complex questionnaire and an unselected group of patients. The only available data on nonrespondents were their age and sex, and these data showed some bias in that older patients and women were more likely to respond. A more comprehensive evaluation of nonresponse bias in terms of variables such as patients’ attitudes is not possible.

Tests showed patients were reasonably consistent in their responses, with a consistency level equivalent to those in studies of patient valuation conducted in the United States. Other tests indicated that about one-quarter of patients were unwilling to trade between attributes, which might call the validity of the discrete choice methodology into question and make decisions should include information on both technical and interpersonal aspects of care; however, tests of trading behavior have limitations. For example, respondents may not be willing to trade over the levels of attributes presented, but may be willing to do so if offered different levels. Published discrete choice experiments often do not report comparative data on trading, although those that do report equivalent or higher levels of unwillingness to trade. Clearly, this issue requires further methodologic research.

The lower priority patients placed on communication and patient-centered care in our study compared with that in previous studies may reflect the fact that previous studies all used attribute levels of “the doctor seemed to listen” and “the doctor did not seem to listen,” whereas our descriptors contrasted “warm and friendly” with “formal and businesslike.” Our intention was to draw a more subtle and realistic distinction between physicians than was made in the earlier studies. Although it is not certain which wording is more valid, the wording we used did have the advantage of extensive qualitative testing. Our study showed that the value patients placed on the 3 patient-centered care attributes was similar, although the importance of a physician who asks about social and emotional issues seemed to be more scenario dependent.

Relevance of the Findings for Health Policy
Overall, our results provide health policy makers with a comprehensive assessment of patients’ priorities together with a useful financial measure of their relative value. These results can inform discussions about issues such as pay for performance and the balance to be struck between incentives for technical and non-technical aspects of care.

We used thoroughness of physical examination as a measure of technical quality of care, and this was the attribute patients valued most. This finding is in line with findings of studies from the United States. Previous discrete choice experiments that have reported that patients give the highest priority to communication and patient-centered care have tended to exclude the assessment of technical care, possibly because of doubts about whether patients can provide a valid assessment. The priority accorded to patient-centered care may reflect patients’ assumption of technical quality. When that assumption is challenged, technical quality may become more important. It should be noted that the distinction we made between technical and patient-centered care is not absolute, as communication issues are still relevant in technical care generally and physical examination specifically.

Our data suggest that information provided to patients about practices and physicians to help them make decisions should include information on both technical and interpersonal aspects of care; however, little is known about how patients assess technical care, and patients’ assessments may not correlate highly with other objective measures. Providing information to patients about quality of technical care is challenging, as conventional clinical indexes of quality may not meet the needs of patients.

The value patients placed on seeing a physician who knew them well (relational continuity) was greater on the patient-centered care questionnaire than on the generic questionnaire. Relational continuity might have been expected to be less important when presented in the context of other patient-centered attributes, because both relational continuity and the patient-centered care attributes deal with aspects of the physician-patient relationship. Our results are in line with those of published studies that suggest that continuity is important, but they extend that work to show that patients still prioritize continuity even when offered a trade with patient-centeredness, which suggests that a reduction in continuity of care could not simply be overcome by professionals with better communication skills. These findings are important given some of the constraints on continuity associated with current health policy.

In conclusion, delivering effective primary care services requires an understanding of patients’ priorities. Discrete choice experiments may be criticized for assuming a model of decision making that does not reflect patients’ actual judgment processes and for being highly sensitive to issues of wording and context. The discrete choice experiment may nevertheless be a useful technique for health services researchers who seek to quantify patients’ priorities for primary care services in the context of limited resources.

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