Influence of Watchful Waiting on Satisfaction and Anxiety Among Patients Seeking Care for Unexplained Complaints

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ABSTRACT

PURPOSE We undertook a study to determine whether test-ordering strategy and other consultation-related factors influence satisfaction with and anxiety after a consultation among patients seeking care for unexplained complaints.

METHODS A cluster-randomized clinical trial was conducted in family medicine practices in the Netherlands. Participants were 498 patients with unexplained complaints seen by 63 primary care physicians. Physicians either immediately ordered a blood test for patients or followed a 4-week watchful waiting approach. Physicians and patients completed questionnaires asking about their characteristics, satisfaction with care, and anxiety, and aspects of the consultation. The main outcomes were patient satisfaction and anxiety. Data were analyzed by multilevel logistic regression analysis.

RESULTS Patients were generally satisfied with their consultation and had moderately low anxiety afterward (mean scores on 11-point scales, 7.3 and 3.1, respectively), with no difference between the immediate testing and watchful waiting groups ($\chi^2 = 2.4$ and 0.3, respectively). The factors associated with higher odds of satisfaction were mainly related to physician-patient communication: patients’ satisfaction with their physician generally, feeling taken seriously, and knowing the seriousness of complaints afterward; physicians’ discussing testing and not considering complaints bearable; and older physician age. The same was true for factors associated with higher odds of anxiety: patients expecting testing or referral, patients not knowing the seriousness of their complaints afterward, and physicians not seeing a cause for alarm.

CONCLUSIONS Test-ordering strategy does not influence patients’ satisfaction with and anxiety after a consultation. Instead, specific aspects of physician-patient communication are important. Apparently, primary care physicians underestimate how much they can contribute to the well-being of their patients by discussing their worries.


INTRODUCTION

Unexplained complaints in primary care can be defined as those complaints for which a primary care physician, after clarifying the reason for the encounter, taking the patient’s history, and performing a physical examination, is unable to establish a diagnosis. Unexplained complaints are rather prevalent, especially in family medicine; on average, 3% to 39% of consultations involve complaints considered to be unexplained by the primary care physician. In many cases, blood tests are ordered for these patients. Since testing in such situations is often superfluous from a diagnostic point of view, several strategies have been promoted to reduce the ordering of tests. One of these strategies is to use a watchful waiting approach.
So far, in the medical literature, this strategy has been used more in the treatment setting than in the diagnostic setting.9-11 In the context of unexplained complaints, which are usually self-limiting, this approach is thought to reduce the number of patients tested and to improve the predictive values of tests in patients tested after a watchful waiting period.12

Primary care physicians report, however, that they order tests for a variety of reasons other than diagnostic ones—an important one being patient requests.13,14 Patients often ask for tests, and primary care physicians feel that testing is an efficient way to reassure them.15-17 Satisfying and reassuring patients appear to be 2 important goals, especially in light of the long-term relationships between primary care physicians and patients, and the aim of preventing malpractice lawsuits.16,17 The literature shows that many patients do indeed expect blood tests to be ordered and have high expectations about the value of such tests.1,18,19 Their satisfaction with the care they receive may largely depend on such testing. It remains unclear whether testing does indeed influence patients’ satisfaction with care, however. Some studies show that patients place greater importance on alternate aspects of care, such as being listened to and getting a clear explanation about the nature of their problem.20,21 In other studies, patients have stated that they would be very dissatisfied if their expectations were not met.18,22-24 None of these studies specifically looked at unexplained complaints, however.

The literature provides little support for patient reassurance as a reason for ordering tests. Qualitative studies have shown that patients may be uncomfortable with clinical uncertainty, and that they expect to obtain definitive information about their health from test results.18,22 Reassurance is recognized as an important aspect of the physician-patient relationship, which in turn is a dimension of patient satisfaction.25,26 A review of the concepts of patient satisfaction concluded, however, that a direct association of reassurance with satisfaction remains unproven.27

In summary, whereas reducing superfluous testing by using a watchful waiting approach seems a matter of rational decision making, it remains questionable if this approach is acceptable to patients. We hypothesized that watchful waiting would decrease patient satisfaction and increase patient anxiety.

The purpose of this study was to determine whether immediate test ordering, compared with watchful waiting, influences satisfaction with and anxiety after the consultation among patients seeking care for unexplained complaints. We also wanted to assess the relationship between the test-ordering strategy and other characteristics of the primary care physician and practice, the patient, and the complaints and consultation.

**METHODS**

**Design**

The study was part of a cluster-randomized clinical trial on blood test ordering among patients with unexplained complaints, using the primary care physicians’ practices as the level of randomization. Participating family practices were randomly assigned to 3 groups using a computer-generated blockwise randomization list (Figure 1). Primary care physicians in Group 1 were instructed to order blood tests immediately at the first consultation. Those in Group 2 were instructed to propose a 4-week watchful waiting approach to their patients. Those in Group 3 were also instructed to try to postpone test ordering, but at the same time, they participated in a quality improvement initiative that supported them in postponing test ordering for patients with unexplained complaints. The quality improvement initiative had been systematically developed, based on barriers to and facilitators of blood test ordering identified among primary care physicians and patients. It consisted of 2 small-group meetings and a practice visit. The full protocol of this trial, addressing all criteria for the reporting of randomized clinical trials—a Consolidated Standards of Reporting Trials (CONSORT) statement—has been published elsewhere.28 The medical ethics committees of both the Academic Medical Center–University of Amsterdam and the University Hospital Maastricht approved the trial.

**Setting and Participants**

The trial took place in family medicine practices in the southern and western provinces of the Netherlands. Both single-physician and group practices could participate.

Patients were eligible to participate if they were aged 18 years or older and sought care for a complaint that remained unexplained after history taking and physical examination, according to their primary care physician. All patients were registered with a family practice. We restricted eligibility to patients with any of 5 types of complaints: fatigue, abdominal complaints, musculoskeletal complaints, weight change, or pruritus. We selected these complaints because they have a high prevalence in primary care and are frequently considered unexplained initially. Another requirement was that blood test ordering might add to the diagnosis. Patients also had to be able to read, speak, and understand Dutch. We excluded patients whose unexplained complaints alarmed the primary care physician, making watchful waiting unacceptable. Also excluded were patients who had sought care for an unexplained complaint within 6 months before the consultation.

The primary care physicians were asked to invite each consecutive eligible patient to enroll in the trial.
They gave the patients written information and asked them to provide informed consent. All patients were told that different diagnostic strategies were being evaluated. Those in the immediate test-ordering group were told that their physician might order blood tests. Those in the watchful waiting groups were kept naive about the possibility of blood test ordering to prevent a Hawthorne effect.

**Measures**

The data analyzed for this paper were derived from the consultation at which a patient was enrolled in the trial. The variables studied are summarized in Table 1. We collected data about the characteristics of the primary care physician and practice, the patient, the complaint, and the consultation. Participating primary care physicians completed a form asking about their characteristics after they had agreed to participate. When a patient was enrolled in the study, the primary care physician filled in a complaint registration form, and the patient was given a questionnaire to take home, complete, and return to the research group immediately after the consultation, in a stamped envelope. When blood tests were ordered, a copy of the test results form was sent directly to the research group by the laboratory facility.

Patients’ satisfaction with and anxiety after their consultation were measured with 2 questions: “How satisfied are you about the visit that you just paid to the primary care physician?” and “How anxious are you after the visit you just paid to the primary care physician?” For both questions, possible responses ranged from 0 (dissatisfaction or no anxiety) to 10 (total satisfaction or extreme anxiety). Patients were also asked after their consultation about their general satisfaction with the primary care physician and their anxiety.
before the consultation (also rated on scales ranging from 0 to 10). The latter was assessed by asking the patients to imagine the moment they were in the waiting room before the consultation and remember how anxious they had felt at that time.

Statistical Analysis

Except for randomization and duration of complaints, we dichotomized variables, using the mean or the median, where appropriate (as detailed in the supplemental tables, available online-only at http://www.annfammed.org/cgi/content/full/7/2/112/DC1). Patient satisfaction and anxiety were dichotomized because of their distinctly nonnormal distribution, and patients were defined as being satisfied or as having anxiety if they had an above-mean score for the measure.

Level of satisfaction with and anxiety after the consultation were determined both for each randomization group and overall. We also analyzed the relation between the ordering of tests and satisfaction or anxiety.

We performed bivariate analyses using patient satisfaction with the consultation and patient anxiety after the consultation as the dependent variables, and randomization group and the characteristics of the primary care physician and practice, the patient, the complaints, and the consultation as the independent variables. This analysis was conducted using the SPSS 11 statistical software package (SPSS Inc, Chicago, Illinois).

We entered independent variables having a bivariate P value of .1 or less in a backwards multilevel logistic regression analysis to correct for possible confounding, using the Stata 8 statistical software package (Stata Corp, College Station, Texas). We used a random intercept for the practice level and retained randomization group in the model. Subsequently, we added variables that might influence satisfaction and anxiety, and repeated the analysis. Results are presented as adjusted odds ratios (ORs) and 95% confidence intervals (CIs).

RESULTS

Participants’ Flow and Characteristics

Enrollment took place from February 2002 until December 2003. In total, 91 primary care physicians were randomized in the trial, 9 of whom ended their participation before enrollment of patients started, mainly because of personal circumstances and a busy practice schedule; an additional 19 did not enroll any patients. In the end, 63 primary care physicians enrolled 513 patients.

Data about the first consultation were available for 498 patients (Figure 1). The baseline characteristics of physicians and patients are summarized in Tables 2 and 3, respectively. The mean age of the participating primary care physicians was 45 years (SD, 7.3), and 74% were male. They had a mean of 13 years of experience (SD, 8.7). The mean age of the patients was 43 years (SD, 16.2), and 28% were male.

Satisfaction and Anxiety

As shown in Table 4, the mean satisfaction score of patients with the consultation on the scale from 0 to 10 was 7.3 (SD, 2.0). The mean anxiety score after the consultation was 3.1 (SD, 2.5). We found no significant differences between the 3 randomization groups in satisfaction and anxiety scores; furthermore, satisfaction did not differ significantly according to whether blood tests were ordered (described below). Multivariate analysis did not identify any confounders.

Relation of Laboratory Test Ordering and Patient Satisfaction or Anxiety

The Supplemental Tables 1 and 2 summarize determinants of satisfaction and anxiety that were significant.
at $P$ of .1 or less in the bivariate analysis. Satisfaction did not differ significantly across the 3 study groups having different test-ordering strategies ($\chi^2 = 2.4$) or between patients for whom laboratory tests were and were not actually ordered, as determined by receipt of the test results form (OR = 1.3; 95% CI, 0.9-1.8). The same was true for patient anxiety with regard to study group ($\chi^2 = 0.3$) and the ordering of tests (OR = 1.2; 95% CI, 0.9-1.6).

### Determinants of Patient Satisfaction and Anxiety

Adjusted odd ratios for associations between various factors and patient satisfaction and anxiety in the multivariate analyses are shown in Tables 5 and 6, respectively. These analyses retained study group (1, 2, or 3) in the model, but it was of limited influence. The intracluster correlation coefficient of the practice level was low for both satisfaction and anxiety, indicating that randomization at the practice level did not cause bias in outcomes at the patient level.

Patients with unexplained complaints were more likely to be satisfied with their consultation when they were satisfied with their primary care physician in general (OR = 14.39), when they felt they had been taken seriously (OR = 7.56), when, in their opinion, the physician had discussed laboratory testing with them (OR = 2.28), and when they thought they knew how serious their complaints were after the consultation (OR = 2.07). They were less likely to be satisfied when their physician was younger (OR = 0.47) and when their physician thought the complaints were bearable (OR = 0.30). Patients were more likely

### Table 2. Characteristics of Physicians (N = 91)

<table>
<thead>
<tr>
<th>Characteristic</th>
<th>Total Sample (N = 91)</th>
<th>Immediate Test Ordering (n = 33)</th>
<th>Watchful Waiting (n = 29)</th>
<th>Watchful Waiting + QI (n = 29)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Age, mean (SD), years</td>
<td>45 (7.3)</td>
<td>47 (5.8)</td>
<td>44 (7.2)</td>
<td>45 (8.8)</td>
</tr>
<tr>
<td>Sex, No. (%) male</td>
<td>67 (74)</td>
<td>26 (79)</td>
<td>17 (59)</td>
<td>24 (83)</td>
</tr>
<tr>
<td>Experience as a primary care physician, mean (SD), years</td>
<td>13 (8.7)</td>
<td>14 (7.1)</td>
<td>11 (8.4)</td>
<td>14 (10.4)</td>
</tr>
<tr>
<td>Practice type, No. (%) solo</td>
<td>34 (37)</td>
<td>9 (27)</td>
<td>15 (52)</td>
<td>10 (34)</td>
</tr>
<tr>
<td>Practice region, No. (%) in western region</td>
<td>44 (48)</td>
<td>19 (58)</td>
<td>11 (38)</td>
<td>14 (48)</td>
</tr>
<tr>
<td>Practice location, No. (%)</td>
<td>Urban</td>
<td>45 (50)</td>
<td>15 (47)</td>
<td>15 (52)</td>
</tr>
<tr>
<td></td>
<td>Semirural</td>
<td>11 (12)</td>
<td>4 (13)</td>
<td>2 (7)</td>
</tr>
<tr>
<td></td>
<td>Rural</td>
<td>34 (38)</td>
<td>13 (41)</td>
<td>9 (31)</td>
</tr>
<tr>
<td>Number of topics done during CME, mean (SD)$^a$</td>
<td>1.9 (1.6)</td>
<td>1.3 (1.6)</td>
<td>2.3 (1.1)</td>
<td>1.5 (1.6)</td>
</tr>
<tr>
<td>Number of available laboratory tests in own practice, mean (SD)</td>
<td>2.4 (1.1)</td>
<td>2.4 (1.2)</td>
<td>1.9 (1.0)</td>
<td>2.6 (0.9)</td>
</tr>
</tbody>
</table>

$QI =$ quality improvement; CME $=$ continuing medical education.

$^a$ Out of 4 possible topics: unexplained complaints, physician-patient communication, time management, and diagnostic testing.

### Table 3. Characteristics of Patients (N = 498)

<table>
<thead>
<tr>
<th>Characteristic</th>
<th>Total Sample (N = 498)</th>
<th>Immediate Test Ordering (n = 229)</th>
<th>Watchful Waiting (n = 95)</th>
<th>Watchful Waiting + QI (n = 174)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Age, mean (SD), years</td>
<td>43 (16.2)</td>
<td>42 (15.5)</td>
<td>45 (15.2)</td>
<td>45 (17.5)</td>
</tr>
<tr>
<td>Sex, No. (%) male</td>
<td>140 (28)</td>
<td>67 (29)</td>
<td>18 (19)</td>
<td>55 (32)</td>
</tr>
<tr>
<td>Type of health insurance, No. (%) with private$^a$</td>
<td>164 (34)</td>
<td>80 (35)</td>
<td>37 (39)</td>
<td>47 (27)</td>
</tr>
<tr>
<td>Highest level of education completed, No. (%)</td>
<td>4 (1)</td>
<td>2 (1)</td>
<td>1 (1)</td>
<td>1 (1)</td>
</tr>
<tr>
<td>None</td>
<td>140 (28)</td>
<td>67 (29)</td>
<td>18 (19)</td>
<td>55 (32)</td>
</tr>
<tr>
<td>Primary</td>
<td>46 (10)</td>
<td>20 (9)</td>
<td>5 (5)</td>
<td>21 (12)</td>
</tr>
<tr>
<td>Secondary</td>
<td>323 (64)</td>
<td>146 (64)</td>
<td>65 (68)</td>
<td>112 (64)</td>
</tr>
<tr>
<td>Higher</td>
<td>106 (22)</td>
<td>55 (24)</td>
<td>21 (22)</td>
<td>30 (17)</td>
</tr>
</tbody>
</table>

$QI =$ quality improvement.

$^a$ Note: Percentages may not total to 100% because of rounding and missing data for a few patients.

$\dagger$ Vs compulsory.

### Table 4. Patients’ Satisfaction With and Anxiety After the Consultation

<table>
<thead>
<tr>
<th>Measure</th>
<th>Total Sample (N = 498)</th>
<th>Immediate Test Ordering (n = 229)</th>
<th>Watchful Waiting (n = 95)</th>
<th>Watchful Waiting + QI (n = 174)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Satisfaction, mean (SD) score$^a$</td>
<td>7.3 (2.0)</td>
<td>7.4 (2.1)</td>
<td>7.4 (1.9)</td>
<td>7.1 (2.1)</td>
</tr>
<tr>
<td>Anxiety, mean (SD) score$^a$</td>
<td>3.1 (2.5)</td>
<td>3.1 (2.5)</td>
<td>3.4 (2.7)</td>
<td>2.8 (2.4)</td>
</tr>
</tbody>
</table>

$QI =$ quality improvement.

$^a$ On a scale of 0 to 10, where a higher score indicates greater satisfaction or greater anxiety.
to have anxiety after the consultation when they had already been anxious before the consultation (OR = 6.83), when they expected to be referred to a specialist (OR = 2.64) or expected blood tests to be ordered (OR = 1.84), and when the physician did a physical examination during the consultation (OR = 2.03). They were also more likely to have anxiety when the physician felt certain that there was no cause for alarm (OR = 2.37) or took a special interest in psychiatry, psychosomatics, or unexplained complaints (OR = 2.21). On the other hand, they were less likely to be anxious when they themselves considered their complaints bearable (OR = 0.56), when they felt satisfied with the consultation (OR = 0.53), and when they thought they knew how serious their complaints were after the consultation (OR = 0.45).

We also assessed the presence of interaction terms. Study group may have interacted with the patient’s perception of being taken seriously, but further statistical analysis was impossible because of the small number of patients in one subgroup.

### DISCUSSION

This study did not confirm our hypothesis that a watchful waiting approach in ordering tests for patients with unexplained complaints would decrease patient satisfaction and increase patient anxiety. The test-ordering strategy did not appear to be related to either of these outcomes. Instead, specific aspects of physician-patient communication tended to be more important determinants of these outcomes.

The finding that satisfaction with the consultation was closely related to patients’ satisfaction with their primary care physician in general is in agreement with
the literature on the concept of satisfaction. The literature shows mixed results concerning the influence of the age of the primary care physician on satisfaction with both younger and older age reported to be related to greater patient satisfaction. Three other determinants of satisfaction—patients feeling they were taken seriously, physicians discussing testing, and patients knowing the seriousness of their complaints after the consultation—mainly concern aspects of communication. It has been previously recognized that communication is important for patient satisfaction.

Primary care physicians tend to overestimate how bearable patients' unexplained complaints are, which might explain why some patients do not feel taken seriously. Although there is a tendency to view unexplained complaints of recent origin as mild and self-limiting, because patients frequently do not return to their primary care physicians for the complaints, this view may be incorrect, as longitudinal analyses from this trial show that such patients' quality of life tends to remain low, even after a year. Patients with unexplained complaints frequently do not feel that they have been taken seriously, because they get the impression that physicians think they are faking their complaints. It might be useful for primary care physicians in daily practice to ask patients how bearable their symptoms are and to check whether patients feel that they know how serious their complaints are at the end of the consultation.

Although we did not find any related evidence in the literature, it seems obvious to us that anxiety before the consultation influences anxiety afterward. The negative influence of a physical examination on patient anxiety is not so easy to explain. The usual advice for unexplained complaints is to do a physical examination to show that a patient is being taken seriously. Proper evidence for this advice is currently lacking. An alternative explanation is that primary care physicians recognize anxious patients and apply physical examination especially to this group, in order to reassure them, probably with limited effect. A third possible explanation is that patients usually do not expect to be examined and that, when they are, they view this as an alarm signal; however, in our study, anxiety before the consultation did not differ between patients who had expected physical examination and patients who had not.

As for the determinants of satisfaction, many of the determinants of anxiety were related to aspects of communication. A patient's expectation that blood tests would be ordered, as well as their wish to be referred to a specialist, could be a signal to the primary care physician to explore anxiety. In addition, as for satisfaction, physicians' views about how alarming complaints are do not always seem to correspond with those of their patients. The final determinant that was associated with higher levels of anxiety, namely, whether the physician took a special interest in psychiatry, psychosomatics, or unexplained complaints, was surprising to us. Our explanation for this finding is that physicians with such a special interest may tend to focus on the role of psychosocial factors in unexplained complaints. In the early stages of unexplained complaints, patients might then feel that insufficient attention is being given to the somatic aspects of their complaints. The literature shows that physicians' explanations are frequently at odds with the patients' own thinking. Although patients are prepared to accept a psychosocial cause of their complaints, it is important to address their concerns, confirm the reality of their complaints, and link physical and psychological factors. Exploring how bearable complaints are, as well as patients' feelings about the seriousness of their complaints and the nature of their concerns, may decrease their anxiety.

Because of the finding that test-ordering strategy did not influence patient satisfaction and anxiety, we checked whether the study had sufficient statistical power. We considered a difference of 1 point (on the scale of 0-10 points) in satisfaction the minimum clinically relevant difference between the groups. With \( \alpha = 0.05 \) and \( \beta = 0.90 \), each group needed to consist of 62 patients. With 95 to 229 patients in each group, our groups were of sufficient size.

The data for this study were collected in Dutch family practices. As is typical of Dutch family medicine, patients are registered to a practice (list system), and thus doctors and patients build long-term relationships. In addition, diagnostic testing and prescribing are relatively uncommon in family medicine in the Netherlands, compared with other countries. One explanation may be that Dutch primary care physicians are not paid for ordering diagnostic procedures. They receive a capitation fee per listed patient plus a smaller fee for service, which is not influenced by diagnostic procedures. A second explanation is that the need to practice defensive medicine in order to prevent lawsuits is not very high in the Netherlands, because every patient has health insurance that covers almost all medical costs in primary care and the hospital. A third explanation may be that in the Netherlands, guidelines have been developed that include recommendations about the ordering of diagnostic tests. The guidelines are developed by primary care physicians and are highly esteemed among the professional group. A fourth explanation may be that Dutch primary care physicians are more prepared to take risks than physicians from other countries.
cians state that patient preferences strongly influence their diagnostic behaviors, however. Dutch patients, for their part, have high expectations that blood tests will clarify health issues. They prefer 1,000 patients to be tested superfluously if this can prevent missing serious disease in a single patient. In that respect, Dutch patients do not differ much from their American counterparts, so we expect that our results are generalizable to the US patient population.

A strength of this study is that we used real consultations instead of hypothetical situations to assess patients’ views about the consultation, and also included characteristics of the physician and consultation in the analysis, as usually, only patients’ opinions are taken into account. A limitation of the study was that satisfaction with the consultation and anxiety before the consultation were measured after the consultation. This approach may have caused some bias. It was not possible to measure these outcomes earlier, however, because it was not clear if the patients had unexplained complaints (and hence were eligible for the study) until the family physicians diagnosed them. We tried to overcome this limitation by asking the patients to recall the moment they were in the waiting room before the consultation, before asking the other research questions. In addition, we placed the questions about satisfaction with the consultation and anxiety after the consultation at the end of the questionnaire.

Another limitation of the study was that selective inclusion of patients may have caused bias. The physicians in the watchful waiting—only group enrolled fewer patients than the physicians in the other groups. This difference seems to have been due to the number of physicians in this group who did not enroll any patients in the study. If these physicians are left out of the analysis, no statistically significant difference in patient enrollment between the groups remains. Our explanation is that these physicians hesitated to ask patients to participate because they did not have any extra diagnostic tests to offer them that could serve as a “reward” for participation. If this were indeed the case, physicians in both watchful waiting groups should have enrolled fewer patients. But physicians in the watchful waiting group with the added quality improvement initiative had participated in training sessions in which they discussed the limited value of immediate test ordering and the effects of watchful waiting. Physicians in that group may therefore have felt more confident about convincing patients to participate. Although we have no indications of selective inclusion, we cannot completely exclude it either.

Our study shows that ordering blood tests for patients with unexplained complaints is not related to the patients’ satisfaction and anxiety, and thus, that these patients do not differ much in this respect from a more general patient population. This finding is especially remarkable as patient satisfaction and anxiety are important factors in primary care physicians’ decisions about ordering tests. Apparently, primary care physicians overestimate the effects of additional testing in patients seeking care for unexplained complaints and underestimate how much they themselves can contribute to the well-being of their patients by discussing their worries.

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Key words: Outcome assessment (health care); physician-patient relations; laboratory techniques and procedures; patient satisfaction; family practice; primary care; practice-based research

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References


WATCHFUL WAITING FOR UNEXPLAINED COMPLAINTS


