Illness attributions among ethnic minorities: assessment and clinical relevance

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Assessment of lay attributions of mental illness: effects of patient and interviewer characteristics

Abstract

Patients’ illness attributions refer to ideas on illness causation, and are associated with treatment preference and outcome. Reliable and valid assessment of illness attributions may be hindered by interviewer and respondent disparities on certain demographic characteristics, such as ethnicity. The present study examined (a) whether ethnic minority patients reported different attributions to ethnically similar interviewers in comparison with those with a different ethnicity, and (b) whether this effect was related to respondents’ social desirability, the perceived rapport with the interviewer and level of uncertainty towards their attributions. Fifty-five patients of Turkish and Moroccan origins with mood and anxiety disorders were randomly assigned to ethnically similar or dissimilar interviewers. Illness attributions were assessed, using a semi-structured interview, across 11 different categories of causes. Participants who were interviewed by an ethnically similar interviewer perceived interpersonal, victimization, and religious/mystical causes as more important, whereas interviews by ethnically dissimilar interviewers generated higher scores on medical causes. These effects were not mediated by the perceived rapport with the interviewer, and social desirability had a modest impact on the results. Higher uncertainty among participants towards medical and religious/mystical causes seemed to be associated with greater adjustment in the report of these attributions. The findings have significant implications for interviewer selection in epidemiological research and clinical practice.
Introduction

Patients’ illness attributions refer to ideas on illness causation, and are shown to be associated with coping (Chesla, 1989; Rose, 1983), treatment preferences (Saravanan et al., 2007), compliance (Foulks, Persons, & Merkel, 1986), therapeutic relationship (McCabe & Priebe, 2004), and treatment satisfaction (Callan & Littlewood, 1998). In light of the available evidence, fostering the effectiveness of mental health care requires an understanding of patients’ perspective through methodologically rigorous assessments of their illness attributions (Bhui & Bhugra, 2002). The present study aimed to investigate the effect of patient and interviewer characteristics on the assessment of illness attributions among Dutch mental health patients of Turkish and Moroccan origins.

A major obstacle in the assessment of illness attributions is respondents’ occasional tendency to conceal or misreport their beliefs in an interview situation. Indeed, it has been suggested that lay persons may not volunteer their beliefs to clinicians, as these ideas may seem mistaken or even primitive from a Western medical point of view (Kleinman, 1980), or may simply adjust their accounts in order to appear more intelligible (Van der Geest, 1991). Thus far, little is known about the nature and magnitude of such misrepresentations, and specific factors, contributing to their occurrence, remain yet to be discovered.

In the social psychological literature, misreports of beliefs and attitudes have often been ascribed to self-presentation demand (Blair, 2002), the tendency of respondents to present themselves in a socially desirable manner. Recently, an alternative interpretation has been proposed, the so-called social tuning hypothesis (Sinclair, Huntsinger, Skorinko, & Hardin, 2005). This hypothesis postulates that, in an attempt to form or maintain a desirable bond, individuals may adjust their beliefs and utterances in order to create a closer match with the presumed attitudes and beliefs of the interviewer. Although such tunings of one’s accounts may often be driven by strategic self-presentation motives, evidence suggests that these adjustments could also, in part, be unintended (Lowery, Hardin, & Sinclair, 2001). Literature proposes a number of factors, which are thought to impact the adjustment and tuning of respondents’ accounts. Firstly, social tuning is more pronounced among individuals with high tendency towards social desirable responding (McCann & Hancock, 1983). Secondly, the quality of rapport between the respondent and the interviewer is widely considered instrumental in reducing the former’s self-presentation tendencies (Cannell, Miller, & Oksenberg, 1981).
Thirdly, adjustment of attitudes and belief utterances seem predominately to occur on sensitive topics (e.g., racial prejudice) (Weeks & Moore, 1981). That is to say, reports are more prone to adjustment, insofar as they are perceived to provoke social rejection in the interview context. Fourthly, the adjustment of belief utterances appears to be related to respondents’ level of uncertainty towards those beliefs; tuning is stronger among those who experience greater uncertainty towards their beliefs (Finkel, Guterbock, & Borg, 1991). Finally, adjustments of reports may occur as a result of disparities between respondent and interviewer characteristics in terms of age, gender, status, and ethnicity.

Focusing on the latter variable, one can expect ethnic minority patients to produce different accounts with ethnically similar (ethnic match) and dissimilar interviewers (ethnic mismatch). Such ethnic match effects have been widely demonstrated in studies into racial and political attitudes (e.g., Anderson, Silver, & Abramson, 1988; Davis, 1997), and only marginally tested in mental health research. Thompson, Worthington, and Atkinson (1994) examined self-disclosure of African-American students concerning campus life in a predominately “white” university with African-American (match) and Caucasian (mismatch) counselors. Participants with higher level of mistrust towards Caucasians provided a greater number of disclosures with African-American counselors. Another study found African-American respondents, who tested positive for cocaine use, to disclose more drug use, when interviewed by an African-American interviewer than by a Hispanic interviewer (Tassiopoulos et al., 2006). Other investigators demonstrated that ethnic matching may also produce a reverse effect (Dotinga, Van den Eijnden, Bosveld, & Garretsen, 2005). In their study, respondents of Turkish and Moroccan origins in the Netherlands reported less alcohol use to ethnically similar interviewers in comparison with native Dutch interviewers. The authors explained this result by pointing to the Islam’s prohibition of alcohol consumption in Turkish and Moroccan cultures.

The present study sought to investigate the illness attributions of Turkish- and Moroccan-Dutch patients in the context of the ethnic (mis)match with the interviewer. Past research among Turkish (Gilgen et al., 2005) and Moroccan (Al-Krenawi, 2001) immigrants has pointed to a large degree of similarity in their illness attributions, pertaining to a wide range of supernatural (magical), interpersonal, psychological, and stress-related causal factors. Although the existing literature does not provide any clear hypotheses, given the principles of social tuning, one may expect a differential report of illness attributions in ethnic
match and mismatch contexts. For instance, it seems plausible to assume that magical attributions (e.g., witchcraft and evil eye) may especially be susceptible to misreport to ethnically dissimilar interviewers, given their roots in cultural folk beliefs, which may appear primitive to outsiders. Hence, patients’ tendency towards social desirable responding and the perceived quality of rapport with the interviewer may exert a greater influence on disclosure of this type of attributions. In addition, illness beliefs in general (Van der Geest, 1991), and illness attributions in particular (Williams & Healy, 2001), are often fluid, ambiguous, and uncertain cognitions that tend to be represented differently in response to varying interview contexts. In other words, due to the ambiguity of their illness attributions, patients may report different, even contrasting accounts at different moments, or to different people. Taken this premise in light of the available evidence on social tuning, one may expect highly uncertain individuals to manifest greater adjustment of their beliefs in response to interviewer characteristics, such as ethnicity.

A final factor of importance, which may affect the report of illness attributions in (mis)match contexts, pertains to patients’ level of acculturation. Acculturation, roughly defined as cultural adaptations as a result of prolonged contact with the host society, presumably influences the types of illness attributions that patients hold (Minas, Klimidis, & Tuncer, 2007), as well as the personal salience of an ethnically similar interviewer for individual minority patients. That is, an ethnic match situation may become less significant with increasing levels of acculturation.

In summary, the present study examined whether patients of Turkish and Moroccan origins reported different attributions in the match and in the mismatch situations. It was hypothesized that, regardless of patients’ level of acculturation: (a) they would perceive magical attributions as more important in the match than in the mismatch condition; (b) the differences in reports of attributions in the match and mismatch contexts would be larger for patients with high tendency towards social desirability and (c) mediated by respondents’ perceived quality of rapport with the interviewer; and finally (d) the (mis)match effect would be larger for participants who experience greater uncertainty towards their attributions.
Methods

Design
Participants were randomly assigned (stratified according to gender and diagnosis) to one of two conditions: (1) match condition, in which participants were interviewed by an interviewer from the same ethnic background and (2) mismatch condition, in which a native Dutch interviewer conducted the interviews. Additionally, participants and interviewers were matched on gender. The research design and procedure were approved by our university ethical committee.

Participants
Participants were recruited among patients who were receiving treatment at two psychiatric outpatient centers in the city of Rotterdam. Patients were included, if they were 18 years or older, had at least one of their parents born in Turkey or Morocco, and had a DSM-IV diagnosis of major depression, dysthymia, or any anxiety disorder at intake. Exclusion criteria were having a presumed psychotic disorder in active phase, or any severe cognitive disability, which would affect the quality of communication during the interview. Proficiency in Dutch language was not an inclusion criterion.

Interviewers
Interviews were conducted by 17 interviewers, of whom 10 had native Dutch (mean age = 24, SD = 1.15), and 7 had Turkish or Moroccan (mean age = 25.28, SD = 5.52) ethnicity. All interviewers in the match condition were graduate students in clinical psychology, whereas three interviewers in the mismatch condition were psychology students, and the remaining studied other disciplines (e.g., social science, economy). A two-day extensive training was provided for all interviewers, in which the research procedure, and especially the interview protocol were discussed.

Instruments
Illness attributions were assessed, using the Explanatory Models Interview Catalogue (EMIC) (Weiss, 1997). This instrument consists of a collection of locally adapted semi-structured interviews for eliciting illness attributions among specific cultural groups. The version, utilized in the present study, was partly based on a previously developed Turkish version (Gilgen et al., 2005), which was further
adjusted for use among Turkish and Moroccan patients. The adjustment consisted of developing additional items, based on a review of the relevant literature and consultation with cultural experts. The interview consists of an open query into the perceived causes of patient’s condition, and a checklist of 46 causal factors that were divided into 11 different categories of causes: ingestion of food or substances, medical, interpersonal, stress, loss and grief, migration related factors, victimization (e.g., physical or sexual abuse), magical (e.g., djinns, evil eye), religious and mystical (e.g., divine punishment, fate), psychological (e.g., personality characteristics), and finally environmental causes (e.g., pollution). The final section of the interview inquires about the most important cause, and the first cause that patients considered when they became aware of their problems. Each item was assigned a weighted numerical value, corresponding to the degree of emphasis a respondent placed on that item as a perceived cause of his/her symptoms. Perceived causes, which were spontaneously reported in response to the open query, were assigned a score of 4. Items that were identified as causal factors after probing (using the checklist), received a score of 3 or 2, depending on whether they were emphasized or merely mentioned during the interview. An additional score of 5 was assigned to the cause, which was perceived as the most important, and an additional score of 1 to the cause, the respondent considered first after becoming aware of the symptoms. Higher item scores reflected greater perceived significance of the item as a causal factor. For each category of causes, a score was generated by calculating mean values for the individual item scores in that category.

Social desirability was measured with the short Dutch version (Vorst, 2002) of the Balanced Inventory of Desirable Responding (BIDR) (Paulhus, 1984). This questionnaire consists of 24 items, and measures social desirability along the two dimensions of impression management and self-deception. The reliability of the Dutch version is acceptable (α = .79).

Quality of rapport was evaluated, using a short questionnaire, which was developed for the purpose of this study. Participants were asked to rate, on a 5 point Likert scale (1 = completely disagree; 5 completely agree), whether they agreed with three statements pertaining to their level of comfort during the interview, and the tendency to disclose information. In this sample, a Chronbach’s alpha of .64, and a mean inter-item correlation of .37 were found for this scale.

Uncertainty towards attributions was assessed with a rating scale, which was integrated into the EMIC. On each item of the EMIC checklist, patients were
asked to rate, on a 4 point Likert scale, how likely they found the item to be a cause of their illness (0 = not at all; 4 = very much). Scores were reversed prior to analysis, so that higher scores represented greater uncertainty.

**Acculturation** was measured, using the Dutch, Turkish and Moroccan versions of the Lowlands Acculturation Scale (LAS) (Mooren, Knipscheer, Kamperman, Kleber, & Komproe, 2001). This measure was constructed and validated, based on research among the Turkish and Moroccan communities in the Netherlands. The LAS consists of 27 items that form the following subscales: social integration, traditions, norms and values, skills, and loss. Higher scores on these subscales reflect a greater orientation towards the culture of origin. Acceptable levels of reliability (Kamperman, Komproe, & De Jong, 2003) and validity (Mooren et al., 2001) have been reported for the entire scale.

**Manipulation check** was performed by one item, added to the rapport questionnaire, which informed whether patient and interviewer had the same or a different ethnicity (yes/no).

**Socio-demographic characteristics** were assessed with a questionnaire focusing on age, gender, ethnicity, education, and migration related factors, such as participant’s age at migration and the length of residence in the Netherlands.

With the exception of the manipulation check and the socio-demographic characteristics, analyses were performed using the mean scores for each instrument. All measures, except the LAS, were translated into Turkish and Arabic, using the translation-back translation procedure.

**Procedure**

All interviews were conducted at the institutes where the participants were recruited. In order to isolate the interviewer effect, two different persons were involved in the data collection procedure. The first person welcomed the patient and guided him or her to a room where the second person (the interviewer introducing himself or herself as a student/research assistant) explained the procedure, acquired written informed consent, conducted the interview (EMIC), and subsequently administered the BIDR and LAS in random order. The socio demographic characteristics were assessed at the end of the session. Finally, the interviewer left the room, and the first person returned to administer the rapport questionnaire. In order to make the ethnicity of the interviewer more salient in the match condition, the first person was always of native Dutch origin. For participants, who were not fluent in Dutch, a professional interpreter was available.
to facilitate the communications during the interview.

**Analyses**

**Preliminary analyses.** Analyses of potential non-response bias and randomization check were performed using Chi-square and T tests. Further, a MANOVA was conducted to assess the effect of interpreter’s presence on the report of illness attributions in the mismatch condition. Finally, an additional MANOVA was performed to investigate possible differences in illness attributions of participants from Turkish and Moroccan origins.

**Main analyses.** In order to examine the effect of ethnic (mis)match on the report of illness attributions, data were initially analyzed by employing two different approaches: (1) separate multi-level regression analyses for each category of causes, which applied a correction for the nesting of multiple participants within individual interviewers (individual interviewer effect), and (2) a conventional MANCOVA, with acculturation scores as covariate, and scores on each of the 11 categories of causes as dependent variables. As both methods generated identical outcomes, only the results of the conventional analysis are presented in the next section. In case of significant differences, effect sizes were calculated using the Cohen’s $d$. Interaction effects between social desirability and condition were tested by simultaneous multiple regression analyses, using condition, social desirability, their interaction term, and acculturation as predictors, and each category of causes as the outcome variable. To assess whether the quality of rapport mediated the effect of ethnic (mis)match on reports of illness attributions, a series of regression analyses were conducted, using the following criteria, which were proposed by Baron and Kenny (Baron & Kenny, 1986): (1) the independent variable (condition) should predict the outcome variable (report of different types of illness attributions), (2) the independent variable should have an effect on the proposed mediator (perceived quality of rapport), and (3) the proposed mediator should predict the outcome variable, when controlling for the effect of the independent variable. Finally, interaction effects between uncertainty and condition were tested by simultaneous multiple regression analyses with condition, uncertainty, their interaction term, and acculturation as predictors, and each category of causes as the outcome variable. Interaction effects were further analyzed by applying the Johnson-Neyman technique (Huitema, 1980) in order to detect regions of significance on the moderating variable. That is, the values of the moderator (uncertainty) for which the scores in the outcome variable (categories of
attributions) were significant between the match and mismatch groups.

Results

Participants
One hundred and twenty-one patients were approached for participation, of whom 66 refused (54.5%). Reasons provided for refusal were fatigue (34.8%) and no time or opportunity (51.5%). Six patients (9.1%) did not disclose a reason, and in three cases (4.5%) the reason for refusal was not recorded. No significant differences were found between participants and refusers on age, gender, ethnicity and diagnosis.

Three patients in the mismatch condition reported to have been interviewed by an ethnically similar interviewer on the manipulation check. Their data were excluded from further analysis, so that the final sample consisted of 52 patients. Another participant was excluded from the analysis of social desirability scores, due to excessive number of missing values on the BIDR.

Among the participants in the mismatch condition, 12 (48%) were assisted by an interpreter during the interviews. However, the overall effect of the interpreter’s presence on the EMIC scores of respondents in the mismatch condition was not significant. In addition, analyses found no difference in the illness attributions of participants of Turkish and Moroccan origins.

Sample characteristics are shown in table 1. All participants were (first-generation) migrants, with both their parents born and raised in Turkey or Morocco. No significant differences were observed between participants in both conditions, except for the level of acculturation. Patients in the match condition appeared to be less acculturated than those in the mismatch condition, \( t (50) = 2.03, p = .05 \).

Effect of ethnic (mis)match on the disclosure of illness attributions
An overall effect of ethnic (mis)match was found on the report of illness attributions, \( F (11, 39) = 2.83, p < .01 \). Contrary to the first hypothesis, participants in the match condition did not perceive magical causes as more important than those in the mismatch condition. However, a number of significant differences were found on other categories of attributions, regardless of participants’ level of acculturation (table 2). Patients in the match condition scored higher on interpersonal \( (d = .70) \), victimization \( (d = .90) \), and religious/mystical causes \( (d = \)
Table 1. Sample characteristics for the match and mismatch conditions (N = 52)

<table>
<thead>
<tr>
<th></th>
<th>Match (n = 27)</th>
<th>Mismatch (n = 25)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>n</td>
<td>%</td>
</tr>
<tr>
<td>Gender</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Male</td>
<td>10</td>
<td>37.0</td>
</tr>
<tr>
<td>Female</td>
<td>17</td>
<td>63.0</td>
</tr>
<tr>
<td>Ethnicity</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Turkish</td>
<td>15</td>
<td>55.6</td>
</tr>
<tr>
<td>Moroccan</td>
<td>12</td>
<td>44.4</td>
</tr>
<tr>
<td>Age</td>
<td>41.9</td>
<td>7.8</td>
</tr>
<tr>
<td>Years of education</td>
<td>6.5</td>
<td>3.5</td>
</tr>
<tr>
<td>Age at migration</td>
<td>17.3</td>
<td>8.1</td>
</tr>
<tr>
<td>Years in the Netherlands</td>
<td>24</td>
<td>8.6</td>
</tr>
<tr>
<td>Social desirability</td>
<td>3.27</td>
<td>.4</td>
</tr>
<tr>
<td>Acculturation</td>
<td>4.3*</td>
<td>.7</td>
</tr>
</tbody>
</table>

* p = .05

.70). In contrast, participants in the mismatch condition had higher scores on medical causes (d = .56).

No interaction effects were found between social desirability and condition for any category of attributions. However, social desirability had an independent effect on the report of interpersonal (β = -.31, p = .02), and victimization causes (β = -.25, p = .05), with high levels of social desirability predicting less disclosure.

In order to examine whether the effect of ethnic (mis)match on the report of medical, interpersonal, religious/mystical, and victimization related attributions was mediated by the perceived rapport, a series of regression analyses were conducted, corresponding to criteria 2 and 3 for mediation effects. The first analysis revealed a significant relationship between ethnic (mis)match and the quality of rapport, meeting criterion 2; participants in the match condition
Table 2. Differences between the match and mismatch conditions on the EM category scores (N = 52)

<table>
<thead>
<tr>
<th>Category</th>
<th>Match (n = 27)</th>
<th>Mismatch (n = 25)</th>
<th>F (1,49)</th>
<th>p</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>M</td>
<td>SD</td>
<td>M</td>
<td>SD</td>
</tr>
<tr>
<td>Ingestion</td>
<td>.54</td>
<td>.83</td>
<td>.41</td>
<td>.68</td>
</tr>
<tr>
<td>Medical</td>
<td>.74</td>
<td>.76</td>
<td>1.12</td>
<td>.59</td>
</tr>
<tr>
<td>Interpersonal</td>
<td>2.12</td>
<td>1.65</td>
<td>1.14</td>
<td>1.08</td>
</tr>
<tr>
<td>Stress</td>
<td>1.40</td>
<td>1.07</td>
<td>1.55</td>
<td>.76</td>
</tr>
<tr>
<td>Migration</td>
<td>1.42</td>
<td>1.23</td>
<td>.94</td>
<td>1.24</td>
</tr>
<tr>
<td>Loss</td>
<td>1.24</td>
<td>1.02</td>
<td>1.04</td>
<td>1.07</td>
</tr>
<tr>
<td>Victimization</td>
<td>.92</td>
<td>.97</td>
<td>.24</td>
<td>.45</td>
</tr>
<tr>
<td>Magical</td>
<td>.80</td>
<td>1.01</td>
<td>.80</td>
<td>.99</td>
</tr>
<tr>
<td>Religious/Mystical</td>
<td>1.91</td>
<td>.86</td>
<td>1.33</td>
<td>.79</td>
</tr>
<tr>
<td>Psychological</td>
<td>1.49</td>
<td>.78</td>
<td>1.31</td>
<td>.81</td>
</tr>
<tr>
<td>Environmental</td>
<td>.81</td>
<td>.86</td>
<td>.71</td>
<td>.77</td>
</tr>
</tbody>
</table>

perceived the rapport with the interviewer more positively than those in the mismatch condition, $\beta = -.43, p = .05$. However, when controlling for the effect of ethnic (mis)match (criterion 3), the quality of rapport did not predict the report of any types of illness attributions. Hence, a mediating effect of rapport could not be established for the (mis)match effect on any category of causes.

**Effect of ethnic (mis)match and uncertainty on report of illness attributions**

In line with the hypothesis, the examination of interaction effects between ethnic (mis)match and level of uncertainty towards each category of causes revealed two significant outcomes. First, a significant interaction effect was observed with respect to the scores on medical causes (condition x uncertainty: $\beta = .25, p = .03$). Applying the Johnson-Neyman technique, an upper region of significance was found for all values of uncertainty above 1.58 (.58 SD above the mean). This
finding indicates that as uncertainty scores exceeded 1.58, participants in the mismatch condition scored significantly higher on medical causes than those in the match condition ($\beta = .23, p = .05$).

Second, a reverse interaction effect emerged on scores on religious/mystical causes (condition x uncertainty: $\beta = -.28, p = .03$). An upper region of significance was observed for all values of uncertainty above 2.33 (.08 SD above the mean), indicating that with uncertainty scores exceeding 2.33, participants in the match condition scored significantly higher on religious/mystical causes than their counterparts in the mismatch condition ($\beta = - .27, p = .05$).

**Discussion**

The present study examined the effect of ethnic (mis)match between interviewer and respondent on the report of attributions of mental illness. Contrary to the hypothesis, however, participants in the match condition did not perceive magical causes as more important than those in the mismatch condition. Patients scored higher on interpersonal, victimization, and religious/mystical causes, when interviewed by an ethnically similar interviewer, and scored higher on medical causes, when interviewed by an ethnically dissimilar interviewer. The data provided no evidence for the moderating role of social desirability; high levels of social desirability appeared to be related to less disclosure of victimization and interpersonal causes, regardless of the ethnicity of the interviewer. Contrary to the hypothesis, the perceived quality of rapport did not seem to mediate the (mis)match effect. Finally, as expected, patients who experienced greater uncertainty towards their attributions scored higher on religious/mystical causes in the match, and higher on medical causes in the mismatch condition.

The absence of a (mis)match effect on the report of magical attributions was unexpected, and may have arisen from a number of factors. First, the interviewer’s mere probing of specific checklist items of the magical category in the mismatch condition, sometimes in respondent’s own native language to enhance communication, may have demonstrated a certain level of familiarity or recognition on the part of the interviewer, thus facilitating the report of this type of attributions. Alternatively, one can argue that participants in the match condition were equally reserved about disclosing magical attributions in a medical setting, when facing a younger person who may not endorse traditional folk beliefs.
However, the data provided evidence of (mis)match effect regarding a number of other categories of causes. It is important to note that different categories of attributions pertain to various aspects of individual’s life and functioning, some of which may be more private or socially/culturally sensitive than others. It seems, therefore, reasonable to assume that reports of different types of attributions in (mis)match situations may not share the same underlying mechanism. The differential reports of medical and religious/mystical attributions in match and mismatch situations, may have resulted, more than any other category of causes, from social tuning. More specifically, given the higher endorsement of religious/mystical causes in the match situation, one may assume that patients felt more pressured to acknowledge religious causes before a perceived fellow Muslim. This result has significant implications for the interpretation of previous research findings, which point to a relatively high prevalence of religious attributions among Turkish (Minas et al., 2007) and other non-Western respondents (Bhui, Bhugra, & Goldberg, 2002; Lloyd et al., 1998). As these studies have all employed ethnically similar interviewers, high reports of religious attributions may not necessarily reflect genuine beliefs of the respondents, but merely be an artifact of the data collection method (i.e., ethnic matching). A similar process may underlie the participants’ higher reports of medical attributions in the mismatch situation. Patients may have tuned their accounts towards the perceived views of a native Dutch interviewer in a medical setting. Interestingly, with respect to both medical and religious/mystical causes, high uncertainty towards one’s own beliefs seemed to magnify social tuning. This finding indicates that the adjustment of health beliefs in the interview context (Van der Geest, 1991) may partly occur due to the uncertain nature of these cognitions, which makes their report more susceptible to the interviewer characteristics.

In contrast, interpersonal and victimization causes both pertain to private aspects of patients’ lives, and are unlikely to result from social tuning tendencies. One may assume that the differential report of these causes in the (mis)match situations would be related to the perceived rapport during the interview. This appeared, however, not to be the case. The higher disclosure rate of victimization causes contradicts previous research findings. Dailey and Claus (2001) found no effect of ethnic matching on the disclosure of physical and sexual abuse among Caucasian and African-American respondents. Beside cultural and demographic differences in the study samples, the combination of ethnic and gender matching in the present study may have been crucial for the match effect to occur.
Overall, the study failed to clarify the factors, contributing to the (mis)match effects. Social desirability appeared to impact patients’ accounts only with regard to interpersonal and victimization causes in both match and mismatch situations. Perhaps, these types of illness attributions include such sensitive information, that social desirability affects their disclosure by itself, independent of the ethnicity of the interviewer. Furthermore, given the (mis)match effect was not moderated by social desirability, one may hypothesize that certain belief adjustments in (mis)match situations may have not been necessarily deliberate, but in fact have occurred outside the patients’ conscious attempts to manipulate their utterances. Indeed, social psychological literature seems to support this assertion, indicating that belief and attitude adjustments in interpersonal interactions may be unintended (Lowery et al., 2001), or occasionally even counter a socially desirable self-presentation (Sinclair et al., 2005). Nonetheless, even in cases in which adjustments are not deliberate, social desirability can be assumed to affect the individual’s statements (McCann & Hancock, 1983), albeit perhaps not as profoundly as the case with conscious manipulations.

The study found no relation between the perceived rapport and patients’ statements in (mis)match situations. Good rapport between interviewer and respondents has been previously thought to foster disclosures (Dijkstra, 1987) by countering social desirability tendencies, thus, making patients’ expressions less threatening (Cannell et al., 1981). A number of additional factors may explain this discrepancy. First, the quality of rapport was measured after the completion of the interview, whereas illness attributions were assessed at the beginning of the encounter, when a rapport may not have been fully established yet. It is, therefore, not surprising that reports of illness attributions at one moment do not seem to be associated with the evaluation of rapport at a later moment. A second factor pertains to the theoretically complex relationship between rapport and disclosure. Similar to the present findings, a number of studies have found rapport not to predict response accuracy (Belli, Lepkowski, & Kabeto, 2001), or to mediate the relationship between interviewer characteristics and patient’s disclosure rate (Pollner, 1998). Such findings have led a number of authors (e.g., Dijkstra, 1987) to propose a curvilinear relationship between rapport and disclosure, in which very low and very high rapport may both inhibit disclosure. Indeed, the lack of evidence for the mediating role of rapport in the present study may be due to respondents’ reluctance to disclose information, which would have undermined a positive rapport with the interviewer, insofar as it has already been established.
This study suffers from a number of limitations. First, the sample size was not large. It is possible that social desirability and rapport would be more strongly linked to disclosure, had a larger sample size been acquired. Second, participants in this study were all immigrants. Data may not be generalizable to the second-generation of Turkish and Moroccan Dutch individuals, among whom the ethnic (mis)match effect may be less pronounced.

In conclusion, the present study provided evidence for the effect of ethnic (mis)match between interviewer and respondent on the report of illness attribution among psychiatric patients of Turkish and Moroccan origins. Although the exact mechanism underlying this effect remains largely unknown, the study has a number of significant implications for clinical research and practice. First, researchers should be aware of (mis)match effects in the study of illness attributions, an possibly other constructs of interest. Ethnic matching of interviewers and respondents may elicit more genuine accounts on some subjects (e.g., victimization causes), while resulting in social tuning on others (e.g., religious/mystical causes). Particularly, in cross-cultural comparisons, such tunings of beliefs and utterance may generate false assumptions of cultural differences. Therefore, the possibility of (mis)match effects should, ideally, be included in decisions regarding the research procedure and interviewer selection. Second, mismatch effects are not merely a source of non-random measurement error, but also reflect important dynamics in intercultural clinical encounters. Attempts should be made to enhance disclosure in the starting phase of these encounters in order to facilitate a more valid assessment of the patient’s attributions and history. Further studies into the mechanisms of (mis)match effects will be essential for this purpose.
References


Lloyd, K. R., Jacob, K. S., Patel, V., St, L. L., Bhugra, D., & Mann, A. H. (1998). The development of the Short Explanatory Model Interview (SEMI) and

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Vorst. (2002). Nederlandse Aanpassing van de BIDR [Dutch Adaptation of the BIDR]. Amsterdam: Unpublished report, Department of Psychology, University of Amsterdam.

