ABSTRACT

Background: Sexual compatibility between husband and wife is an effective factor in both sexual and marital satisfaction. However, there is limited valid and reliable questionnaire to measure the degree of sexual compatibility between the couples.

Methods: In this exploratory mixed method study, 54 individuals were interviewed in the qualitative phase and 448 persons participated in the quantitative phase. Totally 502 participants (261 woman, 241 men) took part in this study. According to 205 final codes derived from the qualitative phase, 102 initial items were developed, the number of which reached 69 items after deletion and merging performed by the research team. After face validity, content validity and construct validity, 68 items were introduced into the construct validity phase.

Results: Following exploratory factor analysis and promax rotation, the items were reduced to 35 in 4 factors: “Requirements of a sexual relationship”, “Sexual agreement”, “Contextual obstacles” and “Outcomes of sexual compatibility”. The questionnaire Cronbach alpha and correlation coefficient of the test-retest method were 0.90 and 0.91, respectively.

Conclusion: Final Questionnaire included 35 items in 4 point-Likert scale with total score of between 35-140. This valid and reliable questionnaire is brief, easily interpreted and can measure the main factors affecting sexual compatibility with the spouse in clinics and research fields.

KEYWORDS: Couple therapy, Factor analysis, Psychometrics, Sexual compatibility, Sexual satisfaction

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**Introduction**

Sexual compatibility is one of the dimensions of sexual well-being in lifetime. Sexual compatibility can lead to increasing sexual and marital satisfaction and joviality, in contrast, sexual incompatibility may end up in divorce. Sexual compatibility makes frequent replacement of sexual partner less likely and is effective in reducing sexual infections and in promoting sexual health of the individual and society. Perceived sexual compatibility is a strong predictor of sexual and marital satisfaction. Women with higher scores in sexual compatibility reported significantly less depression and higher levels of sexual motivation and desire. Despite the importance of sexual compatibility in marital life, scant respective studies have been carried out about sexual compatibility. Moreover, limited valid questionnaires are available to measure sexual compatibility.

Real knowledge of family relationships requires developing some methods for evaluation of couples and families. Science relies on the development of instruments. Clinical practice on couples and families suffers from lack of measurement instruments and methods to follow the progress made in treatment. Common phrases such as "he/she will be back for treatment", "the couple seems satisfied" or "the couple is not divorced" cannot indicate the clinical performance of the therapist. In order to evaluate clinical performance, we need some questionnaires to document our measures. Further, application of questionnaires to identify family problems is a time-saving practice.

Although Spanier questionnaire has been considered as a measurement instrument for dyadic adjustment in some literature, this questionnaire addresses all dimensions of compatibility in marital life, including income sharing, occupation, leisure time, education of children, etc., and only 2 out of 32 questions (6 and 29) are associated with sexual issues. Hurlbert index of sexual compatibility (HISC) is a brief and simple questionnaire for measuring sexual compatibility, but some of its phrases are ambiguous. For example, the concept of sexual values, ideas and beliefs in items 1, 12 and 21 are interpreted differently in different people. In HISC, no qualitative study has been reported as a foundation for development of questionnaire, and advanced statistical methods of instrumentation (such as construct validity) are not used. The study population was limited to nurses and the diversity of sexual compatibility in the general population has not been studied. In addition, sexuality is related to the culture of the community and changes over time, so sexual compatibility factors in western society in 1993 may be different from those in eastern society three decades later. Therefore, developing a new questionnaire with modern statistical approach in Iranian society seemed necessary. The current study aimed to develop a valid and reliable questionnaire to inclusively evaluate sexual compatibility with the spouse.

**Materials and Methods**

This methodological research is an exploratory sequential mixed method study that was carried out in two qualitative and quantitative phases during 2015 to 2017. The participants included 502 married men and women in formal marriage. Table 1 shows the number and sex distribution of participants in this study. The approval and code of ethics (SBMU2. REC.1394.73) was obtained from the research deputy of "Nursing and Midwifery School of Shahid Beheshti University". In all phases of the research, written and oral informed consent was received from all participants. Prior to conducting qualitative interviews, voice recording permission was obtained. The researcher reminded the participants of her obligation to observe all ethical principles like secrecy, privacy, anonymity and permission to withdraw from the study.

**Qualitative Phase**

At first, the existing questionnaires were reviewed. None of them was qualified to be
used in Iranian culture. Then, the qualitative study was conducted and the concept of sexual compatibility and factors affecting it were explored. The research setting for the qualitative phase included 2 clinics, 1 healthy house of municipality, and 1 religious forum (Heiat) in Tehran. Purposeful sampling was initiated and went on to reach data saturation.19 Totally 54 participants (32 women and 22 men) took part in this phase. The inclusion criteria were women and men with at least one year of marital life, fluent in the Persian language, no major disease affecting their sexual performance (such as diabetes, spinal cord injury and substance abuse), willingness to participate in the study and ability to communicate and express their sexual life experiences. Data were collected through semi-structured in-depth interviews and written narratives which were analyzed using conventional content analysis with MAXQDA software version 10. After extracting the initial codes, again the review literature was used to complete the data. As the HISC was the most relevant and widely used questionnaire in the field of sexual compatibility, the final codes of qualitative study were compared with HISC. Almost all of the items in the Hurlbert questionnaire were somehow mentioned in our study and our qualitative study was comprehensive. Following frequent reviews and corrections, the preliminary questionnaire was developed and the second phase began.

### Table 1: Sex distribution of participants in this study

|                  | Participants N (%) | Women N (%) | Men N (%) |
|------------------|--------------------|-------------|-----------|
| Total            | 502 (100)          | 261 (52)    | 241 (48)  |
| Qualitative phase| 54 (10.75)         | 32 (6.3)    | 22 (4.3)  |
| Quantitative phase| 448 (89.24)       | 7 (1.39)    | 5 (0.99)  |
| Item impact scores |                 | 12 (2.39)   | 4 (0.79)  |
| Content Validity |                   | 200(39.84)  | 200(39.84) |
| Construct Validity |                 | 10 (1.9)    | 10 (1.9)  |
| Test- retest reliability | | |

Face, content and construct validity evaluation process was conducted.

**Face Validity**

In qualitative face validity, the level of difficulty, inappropriateness and ambiguity of the items was checked by all of the participants and some questions were changed. In quantitative face validity assessment, 12 participants (7 women and 5 men) were asked to score the importance of each item from 1 to 5. Next, the item impact score for each question was measured and decisions were made for deletion of those items with impact factor below 1.5.20

**Content Validity**

Qualitative and quantitative content validity was evaluated with the participation of 16 experts (12 women and 4 men) from different fields, including 8 reproductive and sexual health experts, 2 psychologists, 1 psychiatrist, 2 sociologists, 2 gynecologists and 1 nurse. Five experts had a history of instrument construction. In quantitative content validity, the specialists scored the necessity of each item within 1 to 3 ranges and accordingly, content validity ratio (CVR) was calculated and compared with Lawshe’s CVR table. Then, the specialists scored the relevance of each item from 1 to 4 and content validity index (CVI) was calculated according to the formula presented by Waltz and Bausel.21

**Construct Validity**

Construct validity was evaluated using exploratory factor analysis with the participation of 400 married men and women
through SPSS 16 software. The research setting in construct validity included 21 healthcare, administrative, cultural and recreational centers and a family courthouse in Tehran. These people came from different ages, socioeconomic status, a variety of professions and educational levels with at least one month of formal marriage (Table 2). Convenience sampling was performed in the quantitative phase. Kaiser-Meyer-Olkin (KMO) index verified the adequacy of the samples. The number of factors was determined based on “scree plot”, and then decisions were made on omission of the items based on the degree of communalities. Finally, after Promax rotation, the scopes of the items were identified and named.

**Table 2: characteristics of 400 participants in the construct validity phase**

| Variable                        | N (%) |
|---------------------------------|-------|
| Sex                             |       |
| Men                             | 200 (50) |
| Women                           | 200 (50) |
| Marital life status             |       |
| First marriage                  | 355 (88.75) |
| Divorced or on the verge of divorcing | 28 (7) |
| On the verge of marriage        | 13 (3.25) |
| The second marriage             | 4 (1)  |
| Occupation                      |       |
| Housewife                       | 96 (24) |
| Employee                        | 186 (46.50) |
| Self-employed                   | 112 (28) |
| Not mentioning the job          | 6 (1.5)  |
| Duration of marriage            |       |
| Shorter than 1 year             | 21 (5.25) |
| 1-10 years                      | 155 (38.75) |
| 11-20 years                     | 158 (39.5) |
| 21-30 years                     | 52 (13) |
| 31-40 years                     | 12 (3) |
| Over 40 years                   | 2 (0.5)  |
| Education                       |       |
| High school educations          | 47 (11.75) |
| Diploma                         | 85 (21.25) |
| Associate's degree              | 46 (11.5) |
| Bachelor                        | 152 (38) |
| Master                          | 45 (11.25) |
| Doctoral                        | 8 (2) |
| University student              | 17 (4.25) |
| Number of sexual relationships per month |       |
| 0                               | 18 (4.5) |
| 1-3 times                       | 70 (17.5) |
| 4-6                             | 125 (31.25) |
| 7-9                             | 67 (16.75) |
| 10-13                           | 52 (13) |
| 14-16                           | 16 (4) |
| More than 16 times              | 16 (4) |
| Not mentioning the number of relationships | 36 (9) |

**Reliability**

Internal consistency and test-retest reliability of the questionnaire were confirmed. Twenty subjects (10 women and 10 men) participated in this part and responded twice to the test in a 14 day interval.

**RESULTS**

In this study, literature review was done in 4 stages: before, during and after the research, as well as before the results of the research were published. Studies were reviewed in Scopus, PubMed and Google Scholar databases. Here is the latest report on the Scopus database in 17 January 2020: 88 articles were obtained by searching sexual compatibility in article
titles. After excluding the articles related to Agricultural, Genetic, Immunology and Computer Sciences, articles unrelated to heterosexual couples were omitted. Finally, 13 articles were retrieved. One of these 13 studies was qualitative and the others were quantitative. In 7 out of 13 studies Hurlbert sexual compatibility index was used and 3 studies were conducted using researcher-made questionnaires or combination of several questionnaires. Full text of 2 old articles was not accessed. Foster had designed a 101-question questionnaire about sexual compatibility, but it was not used in any of the subsequent studies and the text of the questionnaire was not accessible to any journal. Thus, the Hurlbert questionnaire is by far the most relevant and widely used questionnaire in the field of sexual compatibility and we will compare our questionnaire with Hurlbert’s.

The current questionnaire is the product of a mixed methods study (qualitative and quantitative). In the qualitative phase, through interviewing 54 married women and men, the concept and factors affecting sexual compatibility were explored (Table 3).

### Concept and Factors Affecting Sexual Compatibility with the Spouse Based on Qualitative Study

Sexual compatibility with the spouse is the couples’ participation for fulfilling each other’s sexual needs and solving problems arising from sexual discrepancies based on sexual understanding, sexual agreement and interest in continuing sexual relationships with the aim of mutual sexual satisfaction.

The factors affecting sexual compatibility included individual, marital and contextual factors that may play facilitating, inhibiting or intervening roles.

### Item Generation

Out of 905 preliminary codes in the qualitative study, 257 final codes were obtained according to which 102 items were developed. After omitting and merging by the research team, 69 items were left.

### Table 3: Factors affecting sexual compatibility with spouse

| Factors | Individual | Couple | Contextual |
|---------|------------|--------|------------|
| Facilitators | Awareness and preparation before marriage | Love each other | Passing of time |
| | Patience and tolerance | Practice, effort and experience | Asking for help from others |
| | Solving problems instead of quarrels | Sexual talk with spouse | Adorned wearing and making up at home |
| | Focus on own change | Female sexual orgasm | Leisure and travel |
| | | Prominent role of husband | |
| | | Sexual agreement | |
| | | Mutual understanding | |
| | | Developing a couple identity | |
| | | Forgiveness and consideration of each other | |
| | | Helping wife for babysitting | |
| | | Humor in sex | |
| Inhibitors | Embarrassment | Lack of sexual talk with spouse | Lack of privacy for parents |
| | Bad body image | Ignoring spouse | Irregularities in the hours of sleep and wakefulness |
| | Self-centeredness | Challenge between parenting and partnering roles | Great attention to ceremony and luxury |
| | Taboo and the guilt of having sex | Challenge between spousal role and other roles | |
| | Dissatisfaction with the choice of spouse | Stingy and close-fisted husband | |
| | | Fear of pregnancy | |
| | | Problems of breastfeeding period | |
| Mediators | Marriage age | Couples sex solutions in specific fertility periods (menstruation, pregnancy, infertility treatment) | Woman tired of work outside home |
| | Religious rituals like bathing after sex (Ghusl) | The initiator of sex | Financial problems |
| | Sexual education | | Social problems |
| | Sexual self-awareness | | Watching sex movies |
Face Validity

**Qualitative face validity:** The level of difficulty, inappropriateness and ambiguity of the items were examined by all of the participants and at the end, 10 questions were reworded.

**Quantitative face validity (calculation of impact factor):** In this phase, the impact factor was calculated by 12 married men and women who were asked to score the importance of each item from 1 to 5 and the score of each item was calculated. One item (financial problems affect our sexual relationship) was scored below 1.5, but as qualitative participants emphasized it, this item was not omitted. Therefore, no item was omitted using the impact factor.

Content Validity

**Qualitative content validity:** In this section, 4 items were added, 2 were merged, and 1 was separated. Moreover, 4 items (sleeping together, pre-marriage friendship, spouse’s age difference, smoking alcohol and drug use) were transferred to the demographic section.

**Quantitative content validity:** In this part, CVR-CVI ratio was calculated. Three items gained low CVR ratio and were omitted. These items were as follows:

- My education in childhood has affected my sexual relationship with my spouse (0.06).
- I’m worried that my husband becomes unfaithful to me (0.33).
- My husband’s friendship in cyberspace worries me (0.33).

Although the item “We love each other” (0.25) was not considered necessary by the experts and gained a low CVR score, the research team retained it in the questionnaire because the participants had stressed on it in the qualitative phase. Since there were 16 experts in our research and number 16 is absent in the Lawshe table, the number associated with 15 people, i.e. 0.49 was considered as the lowest score of items that was equivalent to agreement of 12 out of 16 experts (0.50).

Construct Validity (Factor Analysis)

After face validity and construct validity phases, 68 confirmed items were introduced to the construct validity phase and 400 participants (200 men and 200 women) answered the questions.

KMO index for sampling adequacy was 0.908, indicating an excellent sampling adequacy.

In the scree plot (Figure 1), four factors gained values higher than 1, so, SPSS settings were fixed according to 4 factors in the next phase.

![Scree Plot](image-url)
Based on the degree of communalities, all the items above 0.4 were retained. Two items close to 0.4 were also retained by the research team due to their qualitative importance. These two items included “Talking without shame and embarrassment” with communality of 0.38 and “Improving the relationship with entertainment and traveling” communality of 0.35.

By considering the eigenvalues larger than 1 in the scree plot as the basis and communality above 0.4, finally four factors accounted for 53.109% of variance of total variability in sexual compatibility and the first to fourth factors explained 33.969, 7.505, 6.710 and 4.925 of variance, respectively (Table 4).

**Definition of Sexual Compatibility with the Spouse Based on Construct Validity Results**

Sexual compatibility with spouse means the couple’s capability to provide the requirements of a sexual relationship, their agreement on how to have sex and their ability to manage the obstacles to achieve desirable outcomes.

| Component | Initial Eigenvalues | Extraction Sums of Squared Loadings | Rotation Sums of Squared Loadings |
|-----------|---------------------|-------------------------------------|----------------------------------|
|           | Total | % of Variance | Cumulative % | Total | % of Variance | Cumulative % | Total |
| 1         | 11.889 | 33.969 | 33.969 | 11.889 | 33.969 | 33.969 | 11.534 |
| 2         | 2.627 | 7.505 | 41.475 | 2.627 | 7.505 | 41.475 | 5.691 |
| 3         | 2.349 | 6.710 | 48.185 | 2.349 | 6.710 | 48.185 | 3.978 |
| 4         | 1.724 | 4.925 | 53.109 | 1.724 | 4.925 | 53.109 | 3.077 |
| 5         | 1.222 | 3.492 | 56.602 | 1.222 | 3.492 | 56.602 | 2.871 |
| 6         | 1.047 | 2.992 | 59.593 | 1.047 | 2.992 | 59.593 | 2.268 |
| 7         | 0.954 | 2.726 | 62.320 | 0.954 | 2.726 | 62.320 | 2.016 |
| 8         | 0.943 | 2.694 | 65.014 | 0.943 | 2.694 | 65.014 | 1.964 |
| 9         | 0.770 | 2.199 | 67.213 | 0.770 | 2.199 | 67.213 | 1.762 |
| 10        | 0.744 | 2.127 | 69.340 | 0.744 | 2.127 | 69.340 | 1.716 |
| 11        | 0.711 | 2.031 | 71.371 | 0.711 | 2.031 | 71.371 | 1.673 |
| 12        | 0.681 | 1.946 | 73.317 | 0.681 | 1.946 | 73.317 | 1.629 |
| 13        | 0.652 | 1.864 | 75.181 | 0.652 | 1.864 | 75.181 | 1.585 |
| 14        | 0.622 | 1.777 | 76.958 | 0.622 | 1.777 | 76.958 | 1.541 |
| 15        | 0.607 | 1.734 | 78.693 | 0.607 | 1.734 | 78.693 | 1.506 |
| 16        | 0.577 | 1.649 | 80.342 | 0.577 | 1.649 | 80.342 | 1.462 |
| 17        | 0.567 | 1.621 | 81.963 | 0.567 | 1.621 | 81.963 | 1.418 |
| 18        | 0.515 | 1.471 | 83.434 | 0.515 | 1.471 | 83.434 | 1.341 |
| 19        | 0.495 | 1.415 | 84.849 | 0.495 | 1.415 | 84.849 | 1.296 |
| 20        | 0.459 | 1.311 | 86.161 | 0.459 | 1.311 | 86.161 | 1.241 |
| 21        | 0.448 | 1.280 | 87.441 | 0.448 | 1.280 | 87.441 | 1.196 |
| 22        | 0.428 | 1.222 | 88.663 | 0.428 | 1.222 | 88.663 | 1.151 |
| 23        | 0.395 | 1.128 | 89.791 | 0.395 | 1.128 | 89.791 | 1.106 |
| 24        | 0.387 | 1.106 | 90.896 | 0.387 | 1.106 | 90.896 | 1.061 |
| 25        | 0.378 | 1.081 | 91.977 | 0.378 | 1.081 | 91.977 | 1.016 |
| 26        | 0.343 | 0.981 | 92.958 | 0.343 | 0.981 | 92.958 | 0.961 |
| 27        | 0.325 | 0.927 | 93.885 | 0.325 | 0.927 | 93.885 | 0.916 |
| 28        | 0.321 | 0.916 | 94.801 | 0.321 | 0.916 | 94.801 | 0.871 |
| 29        | 0.303 | 0.865 | 95.666 | 0.303 | 0.865 | 95.666 | 0.826 |
| 30        | 0.294 | 0.841 | 96.507 | 0.294 | 0.841 | 96.507 | 0.781 |
| 31        | 0.277 | 0.792 | 97.299 | 0.277 | 0.792 | 97.299 | 0.736 |
| 32        | 0.263 | 0.750 | 98.049 | 0.263 | 0.750 | 98.049 | 0.691 |
| 33        | 0.254 | 0.727 | 98.776 | 0.254 | 0.727 | 98.776 | 0.646 |
| 34        | 0.218 | 0.623 | 99.399 | 0.218 | 0.623 | 99.399 | 0.591 |
| 35        | 0.210 | 0.601 | 100.000 | 0.210 | 0.601 | 100.000 | 0.546 |
Following Promax rotation, those items with high correlation were included in a factor or subscale and each factor was given a name. The first factor was called “sexual compatibility requirements”, the second “sexual agreement”, the third “contextual obstacles”, and the fourth “outcomes of sexual compatibility”.

Factors or Subscales of Sexual Compatibility with Spouse Questionnaire (SCSQ)

**Factor 1: Requirements of sexual relationship:** Such requirements include the couple's love for each other (Q1), improving sexual relationship over time (Q2), satisfaction with marriage (Q3), sexual attraction (Q4), sexual behavior (Q5), knowing each other sexually (Q6), reciprocal respect (Q7), mutual trust (Q8), active participation in sex (Q9), knowing each other's body (Q10), wife's understanding by the husband (Q11), sense of humor (Q12), flexibility (Q13), getting better sex in recreation and travel (Q14), dealing with the sexual needs of the spouse (Q15, 16), solving sexual problems (Q17), and sexual talk (Q18). This subscale contains 18 items, one of which is reversed (Q16). The range of scores varies from 18 to 72 and a higher score indicates the couple's capability to provide the requirements for sexual compatibility. Cronbach's alpha for this subscale was 0.913.

**Factor 2: Sexual agreement:** This agreement includes agreement on the frequency of sex (Q19), sex aids (Q20), having or not having anal and oral sex (Q21, 22), watching or not watching sexual movies (Q23), contraceptive method (Q24), and sex position (Q25). This subscale included 7 items and the scores ranged from 7 to 28. A higher score conveyed a greater agreement. Cronbach’s alpha for this subscale was 0.833.

**Factor 3: Contextual obstacles:** These obstacles include mismatch in sleeping and waking hours (Q26, 27), challenge between partnering and parenting roles (Q28, 29), and financial issues (Q30). This subscale comprises 5 items all of which are scored reversely. A higher score is indicative of the couple's capability to handle the obstacles of their sexual relationship. Cronbach’s alpha for this subscale was 0.768.

**Factor 4: Desirable outcomes:** These outcomes include become kinder (Q31), reach orgasm (Q32), mood change (Q33), importance of sex in life (Q34), and interest in the continuity of sex with spouse (Q35). This subscale included 5 items and the scores ranged from 5 to 20. A higher score conveyed better outcomes. Cronbach’s alpha for this subscale was 0.767.

Consequently, the final questionnaire included 35 items under 4 subscales with a 4 point-Likert scale, in which six items were reversed (Q16, 26, 27, 28, 29, 30). The scores range from 35 (the least compatibility) to 140 (the highest compatibility). The score of each subscale was calculated as the sum score of the items of that subscale. Then, they were converted to percentage and categorized into three levels of poor compatibility (0-33%), moderate compatibility (34-66%), and optimal compatibility (67-100%). Considering the questionnaires completed in the presence of the researcher, filling this questionnaire takes about 15 minutes. Table 5 presents the items and their quantitative values in different phases of psychometrics. Figure 2 shows stages of this study.

**Reliability**

Reliability was measured by internal consistency using Cronbach’s alpha and test-retest. Cronbach’s alpha for the entire questionnaire was obtained 0.90. Cronbach’s alpha of the subscales is presented in table 5. Correlation coefficient in the test-retest method was 0.91.

**Discussion**

This mixed method study provided a comprehensive insight into the concept and factors affecting sexual compatibility. Based on the qualitative study, sexual compatibility with the spouse is couples’ participation for meeting each other's sexual needs and solving problems arising from sexual discrepancies based on...
Table 5: Items of sexual compatibility with the spouse questionnaire and quantitative values of statements

| Factor name / Cronbach’s Alpha | Item | Factor loading | Communality | CVI | CVR | Impact item |
|-------------------------------|------|----------------|-------------|-----|-----|-------------|
| Factor 1: Requirements of sexual relationship 0.913 | 1-We love each other. | 0.755 | 0.583 | 0.81 | 0.25 | 6.15 |
| | 2-Our sexual relationship improved over time. | 0.768 | 0.590 | 0.88 | 0.94 | 1.99 |
| | 3-I’m satisfied with my marriage. | 0.746 | 0.570 | 0.88 | 0.50 | 3.52 |
| | 4-My spouse is attractive for me sexually. | 0.742 | 0.555 | 1 | 1 | 2.28 |
| | 5-I like my spouse’s sexual behaviors. | 0.724 | 0.533 | 1 | 1 | 2.08 |
| | 6-I know my spouse’s sexual mood. | 0.726 | 0.729 | 0.81 | 0.63 | 3.02 |
| | 7-We respect each other. | 0.709 | 0.526 | 0.50 | 0.63 | 2.98 |
| | 8-We trust each other. | 0.705 | 0.542 | 0.88 | 0.63 | 2.66 |
| | 9-We have mutual company and participation in our sex. | 0.710 | 0.540 | 1 | 1 | 4.16 |
| | 10-We know each other’s body and sensitive sexual points. | 0.688 | 0.478 | 1 | 1 | 4.29 |
| | 11-In our sex, husband cares about his wife’s spirit and needs. | 0.667(1) | 0.487 | 1 | 1 | 4.23 |
| | 12-We have a sense of humor in our sex | 0.657 | 0.445 | 0.88 | 0.50 | 1.80 |
| | 13-We are flexible in sex. | 0.630(1) | 0.485 | 0.88 | 0.88 | 2.38 |
| | 14-Our sexual relationship gets better with recreation and travelling. | 0.608 | 0.380 | 0.75 | 0.50 | 1.80 |
| | 15-My spouse understands my sexual needs. | 0.611 | 0.391 | 1 | 1 | 2.84 |
| | 16-My spouse is indifferent to my sexual needs. | 0.590 | 0.439 | 0.94 | 1 | 3.52 |
| | 17-We solve our sexual problems through due consideration and forgiveness. | 0.563(1) | 0.381 | 1 | 1 | 2.84 |
| | 18-We talk about our sexual issues without shame and embarrassment. | 0.552 | 0.363 | 1 | 1 | 2.66 |
| | 19-We have agreement on the numbers of sexual relationship. | 0.7059(1) | 0.533 | 1 | 1 | 2.26 |
| | 20-We have agreement on sex aids for intercourse (gel, spray and so on). | 0.806 | 0.656 | 1 | 1 | 3.03 |
| | 21-We have agreement on having or not having anal sex. | 0.797 | 0.659 | 1 | 0.88 | 2.24 |
| | 22-We have agreement on having or not having oral sex. | 0.789 | 0.635 | 1 | 0.75 | 2.78 |
| | 23-We have agreement on watching or not watching sexual movies. | 0.768 | 0.608 | 1 | 1 | 1.71 |
| | 24-We have agreement on contraceptive methods. | 0.649 | 0.450 | 1 | 1 | 3.03 |
| | 25-We have agreement on the position of our bodies during sex. | 0.559 | 0.436 | 1 | 1 | 2.57 |
| Factor 2: Sexual agreement 0.833 | 26-Mismatch sleeping and waking hours among family members have faced our sexual relationship with problems. | 2.93 | 0.88 | 0.94 | 0.88 | 2.93 |
| | 27-Mismatch sleeping and waking hours of me and my husband have faced our sexual relationship with problems. | 2.84 | 1 | 1 | 0.636 | 0.769 |
| | 28-Taking care of children has made us neglectful of each other’s sexual needs. | 0.695 | 0.518 | 0.94 | 0.50 | 2.81 |
| | 29-I’m worried my children imagine our sexual relationship. | 0.689 | 0.570 | 0.81 | 0.50 | 1.80 |
| | 30-Financial problems affect our sexual relationship. | 0.652 | 0.465 | 0.81 | 0.50 | 0.92 |
Sexual compatibility with spouse questionnaire

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sexual understanding, sexual agreement and interest in continuing sexual relationships with the aim of mutual sexual satisfaction. According to the quantitative phase, sexual compatibility with the spouse means the couple’s capability to provide the requirements of a sexual relationship, their agreement on how to have sex and their ability to manage the obstacles to achieve desirable outcomes. Based on previous studies, sexual compatibility means having similar feeling to the partner in terms of sexual desires, behaviors, likes and dislikes or similarity in emotional, cognitive, and behavioral components of a sexual relationship; however, the current research suggests couple’s sexual companionship in dealing with sexual discrepancies as the foundation of sexual compatibility. Indeed similarity alone is not enough, the ability to manage differences and solving problems is also needed. In both qualitative and quantitative phases, agreement was the central basis of sexual compatibility. The aim of sexual compatibility is achieving mutual sexual satisfaction. Other researches also suggest that sexual compatibility is significantly related to sexual satisfaction and sexual agreement.

As noted in the literature review, studies specifically focusing on sexual compatibility are limited. Most studies have been conducted on sexual compatibility in non-heterosexual couples or sexual adjustment after a psychological or physical trauma, whereas knowing sexual compatibility in a non-distressed couple is the basis for understanding sexual adjustment in unusual situations. Sexual adjustment may be used instead of sexual compatibility, but sexual adjustment usually refers to the sense of calmness or harmony by rearrangement of sexual relations after encountering a problem, for example sexual adjustment after spinal...
cord injury or sexual adjustment following treatment of cervical cancer. Therefore, the terms “Sexual Adjustment” and “Sexual Compatibility” are not interchangeable.

This study also aimed to develop a brief and reliable questionnaire. The only available questionnaire on sexual compatibility is the one developed by Hurlbert (1993). In comparison to HISC, SCSQ has a qualitative study for generating and designing the items; the number of participants in constructing the questionnaire is 10 times more than that of the Hurlbert’s questionnaire (502 participants compared to 47 participants), and the participants are from different classes and occupations while all those in HISC were nurses. Face, content and construct validities of SCSQ have been determined and reported. The latest statistical methods of construct validity, “exploratory factor analysis” have been used and it has categories and subscales. Also, it has a higher reliability. Table 6 shows comparison of Hurlbert’s questionnaire with sexual compatibility with spouse questionnaire.

The impact of contextual issues on the couple’s sexual compatibility was one of the unique points of this study. Factors such as mismatch in sleeping and waking hours (Q26, 27), challenge between partnering and parenting roles (Q28, 29), and financial problems (Q30) play as inhibitory factor on sexual compatibility. It could be due to cultural differences in the concept and experience of sexual compatibility in Iran and probably in similar eastern societies. Further studies with this questionnaire are required in different cultures.

This research resulted from the interaction of qualitative thinking and statistical analysis. In quantitative face validity, the item impact of “financial problems affect our sexual relationship” was below 1.5 and in quantitative content validity the item “we love each other” gained a low CVR score, but according to the research team opinion, these items were not omitted because they gained a high weight in the qualitative study. Finally, these items obtained a high factor loading in construct validity phase with 400 participants. Also, in the construct validity phase, two items “we talk about our sexual issues without shame and embarrassment” and “our sexual relationship gets better with recreation and travelling” had communalities below 0.4, but they were retained due to their importance in the qualitative phase. Other researchers also considered communality of 0.7 and higher good, between 0.4 and 0.7 fair and lower than 0.4 in need of review.

| Table 6: Comparison of Hurlbert’s questionnaire with sexual compatibility with the spouse questionnaire |
| --- |
| **Title of questionnaire** | **Hurlbert’s sexual compatibility, 1993** | **Sexual compatibility with spouse, 2017** |
| A qualitative study to design the questionnaire | Not reported | Reported (29) |
| Participants in construction phase of questionnaire | 47 nurses (31 women, 16 men) | 502 participants (261 women, 241 men) |
| Face validity and content validity | Not reported | Conducted qualitatively and quantitatively |
| Construct validity | Not reported | Conducted using exploratory factor analysis |
| Reliability | Cronbach’s alpha: 0.813  Split half coefficient: 0.844 | Cronbach’s alpha: 0.90  Test-retest coefficient: 0.91 |
| Number of questions | 25 items | 35 items |
| Scope of items | 5 point-Likert  14 reversed items | 4 point-Likert  6 reversed items |
| Target group | There is no exact definition but it seems that it is specific to heterosexual couples. | Heterosexual couples with formal marriage. |
This questionnaire is associated with a critical issue which is so important for the respondents that they agreed to spend time to answer its items. Words and phrases in all items have been written in a simple and clear method because the items originated from in-depth qualitative interviews and the real life of people. Each item is related to a single concept. The items follow a psychological order and proceed from general to specific items. In construct validity, all 400 participants understood easily, answered the items with a great interest, and were satisfied with the order and fluency of the items. Also, its guideline is complete and clear and it can be easily interpreted. SCSQ seems to meet criteria of a suitable questionnaire.37

There were no specific limitations to the research methodology. In the qualitative phase, data saturation was achieved in the sampling stage, and in the quantitative phase as far as possible individuals from different socioeconomic levels was sampled. However, given the cultural considerations of our society, obtaining the organizations’ approval to conduct interviews or fill out questionnaires on sexual issues was a time-consuming and challenging task, which in itself caused a diversity of sampling.

CONCLUSION

The final questionnaire included 35 items under 4 subscales with a 4 point-Likert scale in which six items were reversed. This short and illustrative questionnaire is easily interpretable that measures the factors affecting sexual compatibility with the spouse and has been designed for heterosexual couples with formal marriage. This questionnaire is applicable for screening sexual compatibility in different populations and measuring sexual compatibility with the spouse before and after couple therapy sessions and sexual education interventions.

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