Construct and content validity of the Turkish Birth Satisfaction Scale – Revised (T-BSS-R)

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ABSTRACT

Background: The Birth Satisfaction Scale – Revised (BSS-R) is a valid and reliable scale designed to assess women’s experiences of labour and childbirth.

Objective: To assess factor structure, validity, and reliability of the Turkish Birth Satisfaction Scale – Revised (T-BSS-R) using data collected from a Turkish population.

Setting: Istanbul Ministry of Health Zeynep Kamil Women’s and Children’s Training and Research Hospital.

Participants: A convenience sample of healthy child-bearing women (n = 120) who had experienced a spontaneous vertex delivery at full term.

Method: A survey was conducted post backtranslating the T-BSS-R, with survey data analysed using confirmatory factor analysis.

Results: Factor modelling found three subscales embedded in the T-BSS-R, which indicated a good model fit, $\chi^2 = 44.67$, CFI = .94; RMSEA = .057; SRMR = .075. A Chi-square value of 1.33 also indicated a good fit. Means for the T-BSS-R subdimensions: (1) Stress Experienced (T-BSS-SE-R) = 6.86 ± 3.10, (2) Women’s Attributes (T-BSS-WA-R) = 2.84 ± 1.89, (3) Quality of Care (T-BSS-QC-R) = 10.69 ± 3.19 and total scale = 20.39 ± 5.98. The Cronbach alpha coefficient for total scale = 0.71 and for subdimensions T-BSS-SE-R = 0.55, T-BSS-WA-R = 0.44 and T-BSS-QC-R = –0.74.

Conclusion: Data analysis determined that the T-BSS-R is a valid and reliable instrument to measure birth satisfaction in a population of Turkish women. The T-BSS-R is available for use from c.hollinsmartin@napier.ac.uk.

Introduction

Childbirth is one of the most significant events in a woman’s life, and therefore it is important for healthcare services to provide a good experience amidst safe conditions (Altıparmak & Coşkun, 2016). Across the years, progressive developments in healthcare have organised a safer environment, which has freed some attention towards optimising women’s experiences...
and satisfaction with the birth process. Prior evaluations of maternity services have measured maternal and neonatal perinatal morbidity and mortality rates (Sawyer et al., 2013), with the new psychosocial criterion of ‘birth satisfaction’ now an incorporated goal of maternity care provision (Tingstig, Gottvall, Grunewald, & Waldenström, 2012). It is now important to:

1. provide the best possible outcomes for both mother and baby,
2. minimise interventions during the normal birth process, and
3. afford the highest possible consumer satisfaction with services provided.

Measuring ‘birth satisfaction’ tells us how a woman feels about her birth experience, which requires the midwife to take into consideration her personal wants and needs within confines of safety and cost (Güngör, 2009; Hollins Martin & Fleming, 2011; Özcan & Aslan, 2015). Markers of ‘birth satisfaction’ include, for example (Hollins Martin & Martin, 2014; Hollins Martin & Fleming, 2011):

- considering person-centred preparation for childbirth,
- providing respect and support throughout the birth process,
- maintaining open and honest communication
- affording a comfortable environment in which the woman is less likely to lose control,
- offering acceptable methods of pain relief,
- minimising obstetric injury, and
- helping the woman to give birth in her desired position (Hollins Martin & Martin, 2014; Hollins Martin & Fleming, 2011).

Levels of ‘birth satisfaction’ can affect the mental health of both mother and infant, with a negative experience having the potential to reduce mother–infant attachment, reduce willingness to breast-feed, instigate sexual dysfunction, instigate infant neglect/abuse, result in postnatal depression (PND), post-traumatic stress disorder (PTSD) and request for future elective cesarean section (CS), and lead to requests for sterilisation and/or abortion (Dencker, Taft, Bergqvist, Lilja, & Berg, 2010; Güngör, 2009; Sawyer et al., 2013).

The World Health Organization (WHO) determined that an acceptable cesarean rate is 15%. The rate is as approximately 53% in Turkey, compared with a rate of 15% in Holland and 20% in France (Workshop on the Evaluation of Delivery Method Preferences, Presidency of Health Institutes of Turkey, 2017, Ankara, Turkey). Evaluating birth satisfaction of women and carrying out further studies to increase birth satisfaction level may effectively reduce cesarean section rates.

Birth satisfaction is influenced by social and cultural structure of regions. The adaptation of the scale into Turkish will reveal factors that affect birth satisfaction in Turkish society. In addition, differences in Turkish culture can be compared with other countries. Sociodemographic characteristics, the expectations of pregnant women, prenatal education, organisation of service delivery, communication with health workers, the quality of midwifery care, applied medical treatment and initiatives, pain control and support, adequate information and participation in decisions, postnatal care, continuity of care and early discharge were all found to affect birth satisfaction in a Turkish population (Güngör, 2009). Other factors that affect birth satisfaction are characteristics of the clinical area, aspects of service providers and level of stress experienced (Güngör & Beji, 2012). The personal characteristics of child-bearing women that affect birth satisfaction include being educated about birth, ability to cope during labour, feeling in control and infant condition.
The personal characteristics of health personnel that are important include protection of privacy, providing information, the quality of care provided, continuity of care provider and support provided (Gencalp, 2001). Environmental and institutional factors that stress women during labour include obstetric interventions and the health of the newborn infant (Güngör, 2009).

Instruments validated to collect data in specified populations (Güngör & Beji, 2012; Hollins Martin, Snowden, & Martin, 2012) are required to assess puerperal women’s levels of ‘birth satisfaction’, from which improvements can be measured. Currently, there are limited methods of measuring ‘birth satisfaction’ in Turkey, with a need identified to produce a valid and reliable instrument (Apay & Arslan, 2009).

It was recognised that one method of producing a robust psychometric instrument to measure ‘birth satisfaction’ in Turkey would be to translate a pre-existing international instrument, collect survey data from a cohort of Turkish puerperal women and carry out psychometric tests to evaluate scale robustness within this particular population. Such an approach would provide both Turkish understandings of ‘birth satisfaction’ and permit cross-cultural comparison to take place. With this in mind, the present study aimed to translate the Birth Satisfaction Scale – Revised (BSS-R) developed by Hollins Martin and Martin (2014), which is a robust psychometric instrument recommended by the International Confederation of Health Outcome Measures (ICHOM), and conduct validity and reliability tests on data collected from a cohort of puerperal Turkish women. The BSS-R is preferred due to its fast ability to collect data, its high Cronbach alpha value, and its adaptability to be translated into many different languages, which allows for cross-cultural data collection.

Method

A survey method was used, with the BSS-R (Hollins Martin & Martin, 2014) first backtranslated and data collected and validated using confirmatory factor analysis (CFA). Taking a prospective cross-sectional approach, key psychometric properties of the T-BSS-R were tested, which involved a sequential process of instrument evaluation using classical and contemporary psychometric approaches applied to a single cohort of Turkish child-bearing women. The study was conducted between 1 January and 1 December 2015, with data collected in Istanbul at the Ministry of Health Zeynep Kamil Women’s and Children’s Training and Research Hospital postnatal clinic. Ethics approval was acquired from the Istanbul Zeynep Kamil Training and Research Hospital Ethical Committee for Clinical Investigations (11391090-900-).

Language and content validity of scale

The backtranslation method was used to determine language equivalence of the T-BSS-R. The UK English-language version of the BSS-R (Hollins Martin & Martin, 2014) was initially translated into Turkish by a team of four academics who were proficient in English. The backtranslation of the scale from Turkish to English was conducted by a faculty member who was proficient in both languages, had previously given birth and who had not previously read the UK English-language version of the BSS-R (Hollins Martin & Martin, 2014). The backtranslated version was compared with the original scale statements and the T-BSS-R items finalised. To assess content validity index (CVI), the draft T-BSS-R was sent to 11 academic
experts who were nurses, midwives and obstetricians working in a variety of universities. These assessors were asked to evaluate on a Likert scale each T-BSS-R item for appropriateness at measuring ‘birth satisfaction’ (Not appropriate = 1; It should be customized = 2; Appropriate but small modifications needed = 3; Perfectly appropriate = 4). All scale items were scored with 3 or 4 points, which calculated a CVI score of 100%. Post CVI, a pilot was conducted in which puerperal women (n = 20) completed the T-BSS-R and provided feedback. All 20 pilot participants understood what each item on the scale was asking and gave feedback on processes of administration. At this point the draft T-BSS-R was officially named the T-BSS-R.

Participants
Participants were a convenience sample of Turkish-speaking, consenting, healthy, low-risk child-bearing women (n = 120), all of whom had experienced a spontaneous vertex delivery (SVD). For factor analysis to be effective, sample sizes need to be 10 times larger than the number of items on the scale. Because the T-BSS-R contains 10 items, a minimum of 100 survey completions was required. Mean age of women recruited was 26.9 years, with mean body mass index (BMI) = 28.15 kg/m². The majority of participants were educated to primary school level (65%), were unemployed outside the home (85%) and lived in urban areas (48.3%). Obstetric characteristics found a mean gravida of 2.19 ± 1.31 and mean parity of 1.90 ± 1.02, with 40% of the participants being primigravidas and 60% multiparous.

Data collection instruments
The 30-item Birth Satisfaction Scale (BSS) developed by Hollins Martin and Fleming (2011) was psychometrically validated by Hollins Martin and Martin in 2014, and resulted in production of the valid and reliable 10-item Birth Satisfaction Scale – Revised (BSS-R). When completing the scale, participants respond to items on a Likert scale that accumulates to a total score of 40, with 40 representing highest possible level of birth satisfaction that can be measured and 0 the lowest (Table 1).

The scale has three subdimensions: (1) Quality of care provision (four items), (2) Women’s personal attributes (two items) and (3) Stress experienced during labour (four items) (Hollins Martin et al., 2012). To predict criterion validity of the translated T-BSS-R, a visual analogue scale (VAS) and the Scale for Measuring Maternal Satisfaction in Normal Birth (SMMS) scale were utilised. We used the SMMS because it is the only developed tool so far that has been designed to measure birth satisfaction in Turkey. The SMMS-normal birth scale was developed by Güngör (2009) and consists of 43 items divided into 10 subdimensions that assess maternal satisfaction following normal birth. Participants respond to the SMMS-normal birth scale on a Likert-type scale that scores responses on a range ‘I do not agree’ (1 point) to ‘I completely agree’ (5 points). The minimum score that can be achieved is 43 and the maximum 215, which represents the highest level of satisfaction (Güngör, 2009; Güngör & Beji, 2012).

Data collection
Data were collected from participants within the first three days post-delivery at the postnatal clinic. An information sheet, consent form and the T-BSS-R were issued during a meeting in
which questioning was encouraged. Informed consent was provided, with confidentiality and anonymity assured.

Statistical analysis

NCSS (Number Cruncher Statistical System) 2007 software (Kaysville, Utah, USA) (Licence No: 1675948377483; Serial No: N7H5-J8E5-D4G2-H5L6-W2R7) was used for statistical analysis. The analysis processes used on data collected using the T-BSS-R can be viewed in Table 2. The level of significance was accepted as \( p < 0.05 \).

Results

Validity of T-BSS-R

Structural validity of T-BSS-R

Factor analysis was used to assess structural validity of the T-BSS-R by determining whether scale items could be classified under different dimensions. CFA (Aksayan & Gözüm, 2002) with robust maximum likelihood estimation was used to examine the three-factor correlated model proposed by Hollins Martin and Martin (2014). Consistent with Hollins Martin and Martin (2014), this model was hypothesised to comprise correlated factors of Stress (four items), Quality of Care (four items) and Women’s attributes (two items). Model fit was examined using a non-significant \( \chi^2 \), comparative fit index (CFI) \( \geq 0.95 \), root mean square error of approximation (RMSEA) \( \leq 0.080 \) and standardised root mean square residual (SRMR) \( \leq 0.080 \) (Schreiber, Nora, Stage, Barlow, & King, 2006). The three-factor correlated model indicated a good model fit, \( \chi^2 = 44.67 \), CFI = .94; RMSEA = .057; SRMR = .075. The standardised factor

Table 1. Valid and reliable 10-item Birth Satisfaction Scale – Revised (10-item-BSS-R) post psychometric statistical testing (Hollins Martin & Martin, 2014).

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Quality of care provision (four items)</td>
<td></td>
</tr>
<tr>
<td>2. Women’s personal attributes (two items)</td>
<td></td>
</tr>
<tr>
<td>3. Stress experienced during labour (four items)</td>
<td></td>
</tr>
</tbody>
</table>

(1) I came through childbirth virtually unscathed.
(2) I thought my labour was excessively long.
(3) The delivery room staff encouraged me to make decisions about how I wanted my birth to progress.
(4) I felt very anxious during my labour and birth.
(5) I felt well supported by staff during my labour and birth.
(6) The staff communicated well with me during labour.
(7) I found giving birth a distressing experience.
(8) I felt out of control during my birth experience.
(9) I was not distressed at all during labour.
(10) The delivery room was clean and hygienic.

Participants respond on a 5-point Likert scale based on level of agreement/disagreement with each of the statements placed, with a possible range of scores between 0 and 40. A score of 0 on the BSS represents the least ‘birth satisfaction’ and 40 the most.

- Strongly agree
- Agree
- Neither agree or disagree
- Disagree
- Strongly disagree

To obtain a copy of the 10-item BBS-R and marking grid contact Prof. Caroline J. Hollins Martin.
Email: c.hollinsmartin@napier.ac.uk
loadings for the T-BSS-R factor matrix can be viewed in Table 1. The RMSEA was lower than .08, which indicates a good fit of the data. The CFI within the .90–.95 range indicates that the model is satisfactory. The SRMR was less than .08, which also indicates good model fit (Schreiber et al., 2006). Corrected chi-square value was 1.33 and also indicated a good fit. The results showed that the study data had acceptable fit and the three-dimensional model was statistically significant and valid (p = 0.050; p ≤ 0.05). Scale subdimensions were based on the three-factored structure determined in the factor analysis, and also the theoretical integrity and expert opinion included in the present study. The subdimensions include (1) Stress experienced, (2) Quality of care and (3) Women's attributes. The questions constructing the three subscales of the T-BSS-R can be viewed in Table 3, which displays the standardised loads according to the CFA results.

**Criterion validity of T-BSS-R**

Simultaneous validity was implemented to test criterion validity of the T-BSS-R, with correlations calculated for the SMMS (Güngör & Beji, 2012) and a VAS on which participants indicated birth satisfaction on a scale of 1 to 10. Correlations were calculated between the T-BSS-R, SMMS-normal birth and VAS birth satisfaction scores. A highly significant correlation was found between the T-BSS-R and SMMS-normal birth total scores (r = 0.36, p = 0.001), and a positive and statistically significant correlation was found with VAS total scores at a level of 36.0% (r = 0.360; p < 0.01). These correlations validate that the T-BSS-R is a suitable instrument for collecting data from a Turkish cohort of puerperal women.

**Reliability of T-BSS-R**

Cronbach alphas were calculated to assess internal consistency of the T-BSS-R, with high correlations between items indicating that subdimensions measure similar properties. A Cronbach alpha of .40 is the minimum acceptable criterion of scale internal reliability (Aksayan & Gözüm, 2002; Aslantekin, 2006; Erdoğan, Nahcivan, & Esin, 2014; Şirin, 2011). Means for the T-BSS-R subdimensions: (1) Stress experienced (T-BSS-SE-R) calculated at 6.86 ± 3.10, (2) Women’s attributes (T-BSS-WA-R) = 2.84 ± 1.89, (3) Quality of care (T-BSS-QC-R) = 10.69 ± 3.19, with total scale = 20.39 ± 5.98. The Cronbach alpha coefficient for total scale was (0.71), and for subdimensions T-BSS-SE-R = 0.55, T-BSS-WA-R = 0.44 and T-BSS-QC-R = 0.74 (Table 4).

**Table 2.** Analysis processes used on data collected using the Turkish Birth Satisfaction Scale – Revised (T-BSS-R).

<table>
<thead>
<tr>
<th>Data analysis</th>
<th>Statistical methodology</th>
</tr>
</thead>
<tbody>
<tr>
<td>Descriptive information about puerperal women</td>
<td>Number, percentage, mean, standard deviation, median, frequency, ratio, minimum, maximum</td>
</tr>
<tr>
<td>Validity analysis</td>
<td></td>
</tr>
<tr>
<td>Language validity</td>
<td>Translation – backtranslation</td>
</tr>
<tr>
<td>Content validity</td>
<td>Content validity index (CVI)</td>
</tr>
<tr>
<td>Structural validity</td>
<td>Factor analysis</td>
</tr>
<tr>
<td>Criterion validity</td>
<td>Pearson correlation coefficient Spearman’s correlation coefficient</td>
</tr>
<tr>
<td>Reliability analysis</td>
<td></td>
</tr>
<tr>
<td>Internal consistency analysis</td>
<td>Cronbach alpha coefficient calculation</td>
</tr>
</tbody>
</table>
Table 3. Standardised factor loadings of the Turkish Birth Satisfaction Scale – Revised (T-BSS-R).

<table>
<thead>
<tr>
<th>Scale items</th>
<th>Subdimension factor values</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1st subdimension</td>
</tr>
<tr>
<td></td>
<td>Stress experienced</td>
</tr>
<tr>
<td>5. I felt that I had excellent support from the delivery room staff during labour and delivery</td>
<td>0.97</td>
</tr>
<tr>
<td>6. The delivery room staff communicated with me satisfactorily during labour</td>
<td>0.75</td>
</tr>
<tr>
<td>3. The delivery room staff encouraged me to participate in the decisions during the delivery process</td>
<td>0.70</td>
</tr>
<tr>
<td>10. The delivery room was clean and hygienic</td>
<td>0.41</td>
</tr>
<tr>
<td>8. I felt that I lost control during delivery</td>
<td></td>
</tr>
<tr>
<td>4. I was very anxious during labour and delivery</td>
<td></td>
</tr>
<tr>
<td>9. I experienced no worries during labour</td>
<td></td>
</tr>
<tr>
<td>7. I thought delivery was a worrying experience</td>
<td></td>
</tr>
<tr>
<td>1. I experienced delivery almost without any damage</td>
<td></td>
</tr>
<tr>
<td>2. I thought the labour was extremely long</td>
<td></td>
</tr>
</tbody>
</table>
Hence, the T-BSS-R was considered a reliable instrument for use in Turkish cohorts of puerperal women in terms of the total scale comprising all 10 items.

**Cut-off scores**

Participants responded to items on the T-BSS-R on a Likert scale that accumulates to a total score out of 40, with 40 representing the highest possible level of birth satisfaction and 0 the lowest. In the present study, scale cut-off scores were calculated by dividing the total score into three equal parts:

- low satisfaction < 13 points
- moderate satisfaction 14–27 points
- high satisfaction ≥ 28 points

**Discussion**

This study was conducted to validate the English (UK) version of the BSS-R devised by Hollins Martin and Martin (2014) and validate it for use in Turkish cohorts of puerperal women. Our construct validity findings are generally consistent with those of Hollins Martin and Martin’s (2014) UK version, the Greek version (Vardavaki, Hollins Martin, & Martin, 2015), and the US version (Barbosa-Leiker, Fleming, Hollins Martin, & Martin, 2015), which together establish robustness of the original 10-item BSS-R (Hollins Martin & Martin, 2014) in terms of factor structure. Even though perception of care can be influenced by sociocultural characteristics of participants, the T-BSS-R resulted in a good-fitting three-factor model ($\chi^2 = 44.67$, CFI = .94; RMSEA = .057; SRMR = .075), which consists of a one order model of birth satisfaction that consists of three lower-order factors: (1) Stress experienced, (2) Quality of care and (3) Women's attributes.

Simultaneous validity was implemented to test criterion validity of the T-BSS-R, with correlations calculated between the SMMS (Güngör & Beji, 2012) and a VAS, with highly significant correlations found which validate that the T-BSS-R is a suitable instrument for collecting data from Turkish cohorts of puerperal women. An increase in Cronbach alpha coefficient equates with an increase in internal consistency, with it reported in the literature that a Cronbach alpha coefficient between 0.60 and 0.80 is reliable (Aksayan & Gözüm, 2002; Erdoğan et al., 2014). The Cronbach alpha of total scale was 0.71, and subscales T-BSS-SE-R 0.55, T-BSS-WA-R 0.44 and T-BSS-QC-R 0.74 (Table 4).

**Table 4. Internal consistency reliability coefficients for the Turkish Birth Satisfaction Scale – Revised (T-BSS-R) and subdimensions.**

<table>
<thead>
<tr>
<th>Subdimension</th>
<th>Number of questions</th>
<th>Min–Max</th>
<th>$\bar{x} \pm SD$</th>
<th>Cronbach’s alpha</th>
</tr>
</thead>
<tbody>
<tr>
<td>T-BSS-SE-R*</td>
<td>4</td>
<td>0–14</td>
<td>6.86 ± 3.10</td>
<td>0.558</td>
</tr>
<tr>
<td>T-BSS-WA-R**</td>
<td>2</td>
<td>0–8</td>
<td>2.84 ± 1.89</td>
<td>0.442</td>
</tr>
<tr>
<td>T-BSS-QC-R***</td>
<td>4</td>
<td>1–16</td>
<td>10.69 ± 3.19</td>
<td>0.747</td>
</tr>
<tr>
<td>BSS-TOTAL</td>
<td>10</td>
<td>6–37</td>
<td>20.39 ± 5.98</td>
<td>0.712</td>
</tr>
</tbody>
</table>

* Turkish version of the Birth Satisfaction Scale – Revised Stress experienced subdimension; ** Turkish version of the Birth Satisfaction Scale – Revised Women’s attributes subdimension; *** Turkish version of the Birth Satisfaction Scale – Revised Quality of care subdimension.
In Turkey, some of the women felt that they were not socially supported by the staff of the delivery room. Nonetheless, in general, the Turkish women showed a great deal of respect to staff, which was evidenced by the high score for the item #5. Unnecessary routine practices in childbirth in Turkey are quite common (e.g. routine episiotomy and induction at birth), which are events that can arouse a stress reaction. The low score for item #2 may also be attributable to practices such as amniotomy, induction and episiotomy, which are often applied to accelerate birth in Turkey (Güngör & Yıldırım-Rathfisch 2009).

There are some limitations to this study. For example, collecting a total number of \( n = 120 \) (10-item) T-BSS-R scales could be perceived as limited in terms of numbers. Nonetheless, this sample size of is considered sufficient by Child (1990), who states that the total sample size should be 10 times larger than the number of items on the scale, or arguably five times larger than the number of items on the scale (Öner, 2012) or no less than 100 total scales gathered (Hatcher, 1994; Kline, 2000). Within these contexts, \( n = 120 \) scales is considered enough, with further future data collection from larger numbers of Turkish cohorts further authenticating results. The data were collected within the first three days post-delivery, which is a time that women may be affected by variables such as the baby blues, anxiety and reflection on negative events that happened during childbirth. It is, however, useful to use the scale to measure these situations in further Turkish studies.

Overall results demonstrate that the T-BSS-R is a valid and reliable tool for measuring ‘birth satisfaction’ in Turkish puerperal women. Consequently, the scale is now available for use to evaluate services and carry out further research on what psychosocially works or does not work in terms of ‘birth satisfaction’ when delivering intranatal care. Assessing ‘birth satisfaction’ is critical to ensure delivery of a reasonable standard of maternity care provision. Measuring improvements in intranatal services is recommended, with routine assessment of women’s ‘birth satisfaction’ carried out by health care professionals, managers and administrators (Cosar Cetin, 2015; Göncü, 2015; Marín-Morales, Javier Carmona-Monge, Peñacoba-Puente, Olmos Albacete, & Toro Molina, 2013). At an international level, comparisons of US, UK, Turkish, etc. ‘birth satisfaction’ in the future will help evaluators better understand cultural differences as regard delivery of intranatal services around the world (Martin, Vardavaki, & Hollins Martin, 2016). It is anticipated that many additional countries will validate their own backtranslated language versions of the original UK scale (Hollins Martin & Martin, 2014), which is available from c.hollinsmartin@napier.ac.uk.

Conclusion

The T-BSS-R can now be considered a psychometrically valid and reliable 10-item multidimensional self-report measure of ‘birth satisfaction’, specifically designed for use in maternity care and perinatal settings in Turkey. The T-BSS-R is a backtranslation of the original BSS-R developed by Hollins Martin and Martin (2014), which is a psychometrically valid and reliable 10-item multidimensional self-report measure of birth satisfaction, specifically designed for use in maternity care and perinatal settings in the UK. Importantly, out of all measures of birth satisfaction that are currently available, the BSS-R has been appraised by international opinion leaders and consequently is now endorsed by the International Consortium of Health Outcome Measurement (ICHOM) as the measure of choice to assess ‘birth satisfaction’ and is incorporated as a key measure to comprehensively assess birth outcomes worldwide within the ICHOM Standard Set for Pregnancy and Childbirth (ICHOM Standard Set for Pregnancy & Childbirth, 2016).
Conflict of interest

No conflict of interest is declared by the authors.

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References


