



Vol 17, N° 1 https://revistas.usb.edu.co/index.php/IJPR ISSN 2011-2084 E-ISSN 2011-7922

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Manuscript received: 20-03-2023 Revised: 07-02-2024 Accepted: 21-03-2024

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Declaration of data availability: All relevant data are within the article, as well as the information support files.

Conflict of interests: The authors have declared that there is no conflict of interest.

How to Cite:

Velo Higueras, C. & Riuz Díaz, M. Á. (2024). Attitudes towards Sexual Behaviour: an Exploratory Analysis of a Comprehensive Model. *International Journal of Psichologycal Research*, 17(1), 40–52. https://doi.org/10.21500/20112084.6367



Attitudes towards Sexual Behaviour: an Exploratory Analysis of a Comprehensive Model

Actitudes sobre conducta sexual: análisis exploratorio de un modelo exhaustivo

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Abstract.

Introduction. A theoretical model of self-oriented cognitive schemata of sexual behaviour (SO-CSSB) was proposed after a previous disambiguation review on the definition and research of sexual attitudes. A quantitative exploration of the proposal may add real-world information regarding the internal structure and the adequacy of the defined factors. Consequently, the present study aims to 1) develop a questionnaire based on the theoretical review and 2) explore the structure of the SO-CSSB model. Method. Following the SO-CSSB principles, a questionnaire was developed and evaluated. An observational cross-sectional online survey was conducted. An exploratory factor analysis (EFA) and a reliability analysis were performed. Results. A study sample, comprised of 188 subjects, was analysed (Age 18-56; M = 25.27; SD = 6.6; 62 male, 33.2%). The EFA yielded 16 factors with eigenvalues above 1, accounting for 67.21% of the variance (KMO = .672, Barlett's = 3958.7, sig.<.01; item communalities between .44 and .80). Items under .49 were cut off, which included values from .49 to .86. There was no correlation between components over .20, in a range from -.19 to .20. Reliability indexes varied from .46 to .86. Conclusion. A final model of 16 components following the SO-CSSB principles was presented. The analysis revealed certain modifications to the theoretical proposal, and the objective of adding a quantitative frame to empirically specify its factors was achieved. This outcome constitutes a step forward to developing a comprehensive model on sexual beliefs.

Resumen.

Introducción. Se propuso un modelo teórico de Esquemas Cognitivos Autoorientados sobre Conducta Sexual (ECA-CS) tras una revisión previa de desambiguación sobre la literatura actual de las actitudes sexuales. Una exploración cuantitativa de la propuesta puede añadir información real sobre la estructura interna y la adecuación de los factores definidos. En consecuencia, el presente estudio pretendió 1) desarrollar un cuestionario basado en la revisión teórica y 2) explorar la estructura del modelo ECA-CS. Método. Se elaboró y evaluó un cuestionario siguiendo los principios teóricos del ECA-CS. Se realizó una encuesta observacional transversal en línea. Se realizó un análisis factorial exploratorio (AFE) y un análisis de fiabilidad. Resultados. Se analizó una muestra de 188 sujetos (Edad 18-56; M = 25.27; SD = 6.6) (62 varones, 33.2%). El AFE arrojó 16 factores con valores propios superiores a 1, que explicaban el 67.21% de la varianza (KMO = .672, Barlett's=3958.7, sig < .01) (comunalidades de los ítems entre .44 y .80). Se estableció un punto de corte por debajo de .49, incluyendo valores entre .49 y .86. No hubo correlación entre componentes por encima de .20, en un rango de -19 a .20. Los índices de fiabilidad variaron de .46 a .86. Conclusiones: Se presentó un modelo final de 16 componentes que sigue los principios del ECA-CS. El análisis reveló ciertas modificaciones a la propuesta teórica, y se logró el objetivo de agregar un marco cuantitativo para especificar empíricamente sus factores. Este resultado constituye un paso adelante en el desarrollo de un modelo integral sobre creencias sexuales.

Keywords.

Sexual Behaviour, Sexual Beliefs, Exploratory Factor Analysis, Cognitive Schema, Sexual Attitudes.

Palabras Clave.

Comportamiento sexual, creencias sexuales, análisis factorial exploratorio, esquema cognitivo, actitudes sexuales.

1. Introduction

Developing a comprehensive picture of "sexual attitudes" implies a hard effort. In a review of current literature (Velo & Ruiz, 2023), we found two main difficulties: the first one is the unlike current definition of what an attitude is, reporting distinctly depending on different aspects such as the value of the action (Redfearm & Laner, 2000), a moral judgment (Blanc et al., 2018), a mix of social norms, own beliefs, and own behavioural tendencies (Marks & Fraley, 2005), or a general overview of one's own personal perspective when evaluating situations (Sánchez-Fuentes et al., 2014), among others.

In fact, other variables such as desires regarding sexual and romantic relationships (Maxwell et al., 2017), or even the concept of "sexual beliefs" (Nobre & Pinto-Gouveia, 2006) have also been labelled with the term "attitude". Furthermore, in our previous review, we revealed variables that have different names but almost identical descriptions (Velo & Ruiz, 2023). For instance, Erotophilia (del Río et al., 2013) and Eroticism (Brito-Rhor et al., 2020).

This inconsistent conceptualization of sexual attitudes is not new. For example, in the questionnaire assessment review by Blanc and Rojas (2017), the authors discussed how "production is diverse and dispersed" (p. 18), either at a conceptual level or in the way of measurement, and concluded that there is a need for a "precise definition acknowledged by specialists" (p. 23).

Albeit this inconsistency related to the definition of sexual attitudes, a second main difficulty was identified in the high variability within the structures of previous proposals. In our work (Velo & Ruiz, 2023), we set a theoretical criterion to define what a self-oriented cognitive schema of sexual behaviour (SO-CSSB) is, in order to review studies that fit that frame. The key point was that even though the scope of the included variables was shared, the reports which were found did not follow a common structure of considerations or a shared model. Table 1, extracted from that review (Velo & Ruiz, 2023), illustrates how several studies to date have not broached sexual attitudes in a unified way, matching again with the aforementioned "diverse and dispersed" discussion of Blanc and Rojas (2017).

As we already discussed, we could not find a broad model which encompassed the wide range of variables. On the contrary, we reported a set of different definitions and conceptual structures that had been shortly described, and which were not based on any kind of validated model of cognition on sexual behaviour. Moreover, we are not the first authors to offer these conclusions. Despite the large volume of research focused on sexual attitudes, several authors have discussed the lack of unified evidence that leads to variability of perspectives, fuzzy labelling, and, also, inconsistency among the studies (Blanc & Rojas, 2017; Kane et al., 2019; Sánchez-Fuentes & Santos-Iglesias, 2016; Shaw & Rogge, 2016).

With this background it is not possible to properly assess attitudes towards sexual behaviour simply based on raw definitions extracted from the literature, but rather a disambiguation process is needed. Therefore, our work had to be divided into a two-step research process. For the first part, we attempted to use information strictly stemmed from the thematic analysis (Braun & Clarke, 2006) to consolidate a theoretical unification extracted from the current literature, by gathering and analysing prior definitions, and bearing in mind the selforiented meaning and the likely interference of moral judgment in the description of the items (Velo & Ruiz, 2023). This first step sought to overcome the "insufficient reporting of qualitative research methods used to generate questionnaires" (Ricci et al., 2019, p. 153), ensuring rigor in the literature disambiguation as the subsequent baseline for developing the model.

From that effort, the systematic review of the literature added to the thematic analysis of the variables resulted in a compilation of 17 self-oriented cognitive schemata of sexual behaviour (SO-CSSB). This outcome gathered definitions used in previous studies and relabelled them using a common classification which aimed to achieve the maximum possible scope. Those theoretically defined factors included several areas of appraisal and selforiented beliefs such as general perception, the search of pleasure or pain (self or partner oriented), spirituality, role performance, self-presentation, emotional bond, reproduction, behavioural variability in different scenarios, the achievement of non-sexual profits, and the importance of own and partner's faithfulness (Velo & Ruiz, 2023).

Nevertheless, this review does not provide a model validation process from real-world data, but only a theoretical compilation and disambiguation of the literature. Therefore, it is still not possible to assure the proposal's level of adjustment. This is why a second step is needed to collect real-world data from a sample of subjects, and to explore the composition structure and adequacy of the model in a comprehensive exploratory factor analysis (EFA).

For that purpose, it becomes imperative to rely on the subjects' individual self-reports, assuming that sexual behaviour attitudes cannot be observed directly. Regardless of the differences in cultural norms around the world, sexual behaviours and related information are commonly constrained to private activity, censored, or, at least, subject to some kind of cultural pressure (Fenton et al., 2001; Langhaug et al., 2010).

In this regard, three characteristics of the assessment may influence the reliability of self-reports (Durant & Carey, 2000; Langhaug et al., 2010): one is the privacy of the information held; other key is the perceived anonymity; and, additionally, the credibility of the research team or assessor.

Self-reports have been concluded to provide more accurate results and less discrepant responses than face-to-

| | Questionnaires* | SOS-6 | SOI | IEASF | TSAO | BSAS | ESS | CCAS | SKAT-A | SDBQ | YSEX?-HSF | QSI 260 | MSQ | MSP/PSP | | | | | | | | | | | | | | | de Evaluación del Autoesquema Sexual Femenino); EROS (Brief Sexual Attitudes Scale); ESS (Embodied Spirituality scents); SDBQ (Sexual Dysfunctional Beliefs Questionnaire); |
|--------------------------------|-------------------------|---------------------|---------------|-------------------|--|----------------|-----------------|---------------|-------------|-------------|--------------|----------------|--------------|-----------------------------------|---------|------------------|-----------------|-----------|---------------|-------------------|--------------|--------------------|-------------------|------------------------|---------------|----------------------------|-----------------|-------------------------------------|---|
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| BilidotorA | | • | | • | • | • | | • | | | • | • | • | | | • | • | | | | | | • | • | • | • | | 53 | Q (T) Q (T) SKA |
| | Year | 2020 | 2018 | 2019 2019 | 2013 | 2006 | 2015 | 2003 | 1990 | 2003 | 2022 | 2016 | 1993 2010 | 2010 | Year | 2007 | 2018 | 2001 | 2019 | 2003 | 500 <i>6</i> | 2000 | 2011 | 2014 | 2021 | 12 | 2018 | ew. | SOI TSA scale) |
| | Ye | 20 | 20 | 50 | 02 02 | 202 | 20 | 20 | 19 | 20 | 50 | 23 29 | 19 90 | 02 C | | 202 | 20 | 20 | 50 | 50 | 02 C | 2 C | 202 | 20 | 20 | 20 | 20 | revie | vey); ual); ude S |
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| | Questionnaire's authors | Arcos-Romero et al. | a et al. | Brito-Rhor et al. | et al. | ket al. | al. | ı et al. | al. | et al. | et al. | Shaw and Rogge | al. | er et al. et al. | NS No. | Buhi and Goodson | et al. | ter | f et al. | Impett and Peplau | Nane et al. | n anu mug et al | Petersen and Hvde | Sánchez-Fuentes et al. | et al. | Woertman and van den Brink | Yapp and Quayle | % of records included in the review | Note. SOS-6 (Sexual Opinion Survey); SOI (Sociose) (Encuesta Revisada de Opinión Sexual); TSAQ (The ' Scale): CCAS (Cross Cultural Attitude Scale); SKAT |
| | Questi | Arcos-F | Barrada et al | Brito-R | The transformed to the transformed to the transformed of transformed of the transformed of the transformed of the transformed of transformed of transformed of the transformed of transfo | Hendrick et al | Horn et al. | Leiblum et al | Lief et al. | Nobre et al | Meskó et al. | Shaw a | Snell et al. | Stulhoter et al Tavares et al. | Reviews | Buhi an | Calvillo et al. | Carpenter | De Neef et al | Impett | Nane et al. | McKee et al | Petersei | Sánchez | Wesche et al. | Woertm | Yapp aı | % of | Note. S (Encuest Scale); C |

face interviews (FTFI) in different populations (Durant & Carey, 2000; Langhaug et al., 2010). For that reason, the self-administered questionnaires (SAQ) may be the most used method for studies on sexual behaviour (Durant & Carey, 2000).

The SAQ allows participants to be less influenced by social desirability to answer every question, although it is reported to increase answer rates compared to other self-report surveys in different populations (Durant & Carey, 2000; Langhaug et al., 2010).

In addition to affording privacy, they are less labourintensive to researchers, and make it possible to administer them to a larger number of subjects in an affordable way (Blumenberg & Barros, 2018; Fenton et al., 2001; Langhaug et al., 2010).

In conclusion, SAQs are reported as a preferred method to reduce the cost of distribution and administration (Blumenberg & Barros, 2018; Fenton et al., 2001; Langhaug et al., 2010), and yield the most accurate information (Durant & Carey, 2000; Langhaug et al., 2010; Schroder et al., 2003).

For all those reasons, the SO-CSSB theoretical model stands as a substantiated candidate to draw a comprehensive framework for attitudes towards sexual behaviour, and may be evaluated through self-reported methods.

Thereby, the aim of the present study was to empirically explore the structure of the SO-CSSB model. It was planned in two operational objectives: 1) to develop a prototype of a questionnaire substantiated on the theoretical review and 2) to explore the structure of the SO-CSSB model.

2. Method

The present study was designed in two stages, starting with the development of a questionnaire from the theoretical proposal, and followed by the data analysis for structure exploration. The study was evaluated and approved by the ethics committees of the Doce de Octubre, Gregorio Marañón and Clínico San Carlos hospitals, and that of the Autonomous University of Madrid.

2.1 Item Generation and Expert Panel

A prototype questionnaire was designed based on the theoretical approach (Velo & Ruiz, 2023). It included 4 items for each SO-CSSB factor, distributed in a non-consecutive order. Items were created to describe objectives, drives, motivations, attitudes, as well as the degree of satisfaction/annoyance in the fulfilment of the factor, following SO-CSSB criteria. Thereby, the 4 items of each factor were designed to express levels of intensity in a Likert-type scale from 1 to 5, referring to one's own perception at present from minimum self-identification to maximum, respectively.

The questionnaire was presented to an expert panel that consisted of four psychologists specialized in dif-

ferent areas of sexual behaviour, who made comments they considered relevant to improve the instrument, and rated every feature: theoretical factors adequacy, item descriptions linked to the factors' meaning, adequacy of the Likert type of items for the purpose of the study, item understanding, questionnaire accessibility and format adjustment to different devices, and questionnaire length from 0 (minimum) to 5 (maximum).

2.2 Pilot Administration

The proposed instrument was administered to 10 subjects who were asked for feedback regarding any possible difficulty that could be encountered while answering it. The comments alluded to three areas: excessive length of the questionnaire, overlapping, and difficulty understanding some items.

Once all the information was collected, the questionnaire was modified to adapt it to the comments from the expert panel and pilot subjects, in order to make it easier to understand and answer. Finally, sets of items for every theoretical factor were reduced from four to three, except for Resolution and Susceptibility to unfaithfulness, due to content considerations.

2.3 Quantitative Analysis

A cross-sectional observational study was conducted. It was approved by the ethical committees of Doce de Octubre, Gregorio Marañón and Clínico San Carlos hospitals, and the one of Universidad Autónoma de Madrid.

2.3.1 Sample

Subjects were selected by incidental sampling amid the participants and patients of the hospitals involved in the project, from external centres, in different outreach activities organized by the research group, and using the snowball method from already recruited subjects. All participants signed the informed consent, were Spanish speakers and at least 18 years old, had to be able to receive emails, and were not diagnosed with any impairment which could prevent them from understanding and answering the questionnaire.

2.4 Procedure

The newly designed questionnaire was administered online once the informed consent had been accepted and signed. The instrument was sent to the subjects' email address. They were asked to answer all the questions in one attempt, considering only their current situation. Finally, they were also offered to comment on the understanding or composition of the questionnaire. No comments were received.

No participant was paid or rewarded in any way for participating.

All items were coded and scored with Qualtrics online survey (Qualtrics, Provo, UT, Copyright ©2020). The completion rate was over 80% for the 16 incomplete questionnaires, which were imputed using R soft-



| Variable | Descriptive |
|---|-------------------|
| Age | |
| | Mean 25.27 |
| | SD 6.61 $(18-56)$ |
| Biological sex | |
| Male | 62~(33.2%) |
| Female | 125~(66.8%) |
| Gender (self-identified, mostly fitted) | |
| Masculine man | 63~(33.5%) |
| Feminine man | 2~(1.1%) |
| Masculine woman | 5(2.7%) |
| Feminine woman | 113~(60.1%) |
| Trans woman (man born) | 1 (0.5%) |
| Agender (neutro) | 4(2.1%) |
| Academic level | |
| Basic | 5(2.7%) |
| Medium Professional degree of Bachelor | 58~(30.9%) |
| High Professional degree or University degree | 60~(31.9%) |
| University postgraduate | 65~(34.6%) |
| Household income per year | |
| <20k | 84 (44.7%) |
| 20-25k | 43 (22.9%) |
| 25-30k | 30~(16%) |
| >30k | 30~(16%) |

Table 3

Total Variance Explained

| Component | Extrac | ction Sums of Sq | uared Loadings | Rotation Sums of Squared Loadings ^a |
|-----------|--------|------------------|----------------|---|
| | Total | % of Variance | Cumulative % | Total |
| 1 | 5.554 | 10.480 | 10.480 | 4.270 |
| 2 | 4.706 | 8.879 | 19.358 | 3.196 |
| 3 | 3.339 | 6.299 | 25.658 | 3.028 |
| 4 | 3.169 | 5.980 | 31.637 | 2.688 |
| 5 | 2.492 | 4.701 | 36.339 | 3.278 |
| 6 | 2.246 | 4.237 | 40.576 | 2.630 |
| 7 | 1.814 | 3.422 | 43.998 | 3.036 |
| 8 | 1.748 | 3.299 | 47.296 | 2.103 |
| 9 | 1.576 | 2.973 | 50.269 | 1.677 |
| 10 | 1.541 | 2.908 | 53.177 | 2.565 |
| 11 | 1.420 | 2.679 | 55.856 | 2.255 |
| 12 | 1.351 | 2.549 | 58.405 | 1.730 |
| 13 | 1.323 | 2.496 | 60.901 | 1.674 |
| 14 | 1.154 | 2.177 | 63.079 | 1.591 |
| 15 | 1.117 | 2.108 | 65.186 | 2.393 |
| 16 | 1.076 | 2.031 | 67.217 | 2.260 |



EFA Structure Matrix

| Item | | | | | | | | Comp | | | | | | | | |
|------|------|------|------|------|------|------|-----|------|------|------|------|------|-----|------|------|-----|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 |
| 48 | .854 | | | | | | | | | | | | | | | |
| 50 | .854 | | | | | | | | | | | | | | | |
| 53 | .797 | | | | | | | | | | | | | | | |
| 52 | .780 | | | | | | | | | | | | | | | |
| 47 | .563 | | | | | | | | | | 558 | | | | | |
| 1 | | | | | | | | | | | | | | | | |
| 16 | | .734 | | | | | | | | | | | | | | |
| 27 | | .687 | | | | | | | | | | | | | | |
| 2 | | .678 | | | | | | | | | | | | | | |
| 9 | | .581 | | | | | | | | | | | | | | |
| 30 | | .522 | | | | | | | | | | | | | | |
| 24 | | .022 | .858 | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| 18 | | | .727 | | | | 500 | | | | | | | | | |
| 10 | | | .646 | | | | 538 | | | | | | | | | |
| 22 | | | | .862 | | | | | | | | | | | | |
| 28 | | | | .833 | | | | | | | | | | | | |
| 7 | | | | .535 | | | | | | | | | | | | .49 |
| 4 | | | | | .852 | | | | | | | | | | | |
| 42 | | | | | .792 | | | | | | | | | | | |
| 31 | | | | | .781 | | | | | | | | | | | |
| 3 | | | | | .725 | | | | | | | | | | | |
| 5 | | | | | | .811 | | | | | | | | | | |
| 20 | | | | | | .805 | | | | | | | | | | |
| 32 | | | | | | .776 | | | | | | | | | | |
| 44 | | | | | | .110 | 783 | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| 11 | | | | | | | 687 | | | | | | | | | |
| 37 | | | | | | | 674 | | | | | | | | | |
| 25 | | | | | | | | | | | | | | | | |
| 23 | | | | | | | | 80 | | | | | | | | |
| 36 | | | | | | | | 745 | | | | | | | | |
| 17 | | | | | | | | | | | | | | | | |
| 19 | | | | | | | | | .663 | | | | | | | |
| 12 | | | | | | | | | .614 | | | | | | | |
| 14 | | | | | | | | | | .753 | | | | | | |
| 45 | | | | | | | | | | .745 | | | | | | |
| 40 | | | | | | | | | | .718 | | | | | | |
| 49 | | | | | | | | | | | .755 | | | | | |
| 51 | .570 | | | | | | | | | | 640 | | | | | |
| 39 | .570 | | | | | | | | | | 040 | .796 | | | | |
| 46 | | | | | | | | | | | | .790 | | | | |
| | | | | | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | | | | | |
| 38 | | | | | | | | | | | | | 658 | | | |
| 26 | | | | | | | | | | | | | 593 | | | |
| 35 | | | | | | | | | | | | | | | | |
| 29 | | | | | | | | | | | | | | .724 | | |
| 8 | | | | | | | | | | | | | | .491 | | |
| 43 | | | | | | | | | | | | | | | | |
| 33 | | | | | | | | | | | | | | | .778 | |
| 6 | | | | | | | | | | | | | | | .763 | |
| 21 | | | | | | | | | | | | | | | .548 | |
| 41 | | | | | | | | | | | | | | | .010 | .69 |
| 34 | | | | | | | | | | | | | | | | .60 |
| | | | | | | | | | | | | | | | | .55 |

ware (R core team, 2020) with random forest multiple imputation. The outcome of the analysis was compared with non-imputed results.

2.5 Analysis

An exploratory factor analysis (EFA) was conducted (Principal Axis extraction method with oblique rotation). Bartlett's test of sphericity was performed to evaluate worthiness of the correlation matrix (null hypothesis indicates that the variables are uncorrelated), and also KaiserMeyerOlkin test (KMO) was reported to evaluate the adequacy of the analysis technique. Following the Kaiser and Guttman K1 rule, only factors with eigenvalues greater than one were selected.

Reliability analysis was performed using Cronbach's Alpha and McDonald's Omega indexes. Both indicators were considered because of the Likert-type variables (Hayes & Coutts, 2020) and multidimensional structure. For the sets with only two items, the Spearman-Brown coefficient was used (Eisinga et al., 2013).

3. Results

The results of the expert panel survey regarding the quality of the questionnaire were the following: theoretical factors adequacy (M = 5, SD = 0), item description linked to factors' meaning (M = 4.75, SD = .5), adequacy of the Likert type of items for the purpose of the study (M = 4.75, SD = .5), item understanding (M = 4, SD = .81), questionnaire accessibility and format adjustment to different devices (M = 4.5, SD = 1), and questionnaire length (M = 4, SD = .81). One comment was received expressing the excessive length of the instrument.

From all the participating centres, 345 subjects were recruited. Of them, 207 answered all the characterization questions and 188 completed over 80% of the questionnaire (172 complete).

Mean age was 25.27 (SD: 6.61) from 18 to 56, and 66.8% of subjects were biological females. In addition to that, 93.5% of biological males identified themselves with the masculine male gender, while 88.8% of the biological females identified themselves with the feminine female gender.

The first step was a comparison of the results from the exploratory factor analysis before and after including the imputed answers. No relevant differences were found in item classification or model outcome (n = 172: KMO = .661, Barlett's = 3789.1, sig.<.01, 70.1% of the variance explained; vs. n = 188: KMO = .672, Barlett's = 3958.7, sig.<.01, 67.2% of the variance explained). Finally, the imputation of 16 subjects was performed and included in the analysis.

Exploratory factor analysis of the 53 items yielded 16 factors with eigenvalues above 1, accounting for 67.21% of the available variance (see Table 3), and item communalities ranging from .44 to .80. Table 4 shows the

structure matrix with the items of each component, with an agreed-upon cut off of >.49 (Kyriazos, 2018), which resulted in loadings from .49 to .86.

Finally, the internal consistency of each factor was assessed computing Cronbach's Alpha and McDonal's Omega's indexes. For the sets with less than three items, reliability was assessed using Spearman-Brown coefficient (Eisinga et al., 2013), as it can be seen in Table 5. Every component was reassessed to evaluate the suitable labelling in terms of the EFA outcome. Additionally, Table 6 shows that no correlation between components over .20 was found, ranging from -.19 to .20.

4. Discussion

The aim of the present study was to add a quantitative framework to a previously reported disambiguation review and theoretical proposal of cognitive schemata on sexual behaviour (Velo & Ruiz, 2023), in order to empirically identify its factors and evaluate the feasibility of the model for further research. As shown in Table 5, we found a preliminary set of results supporting the general meanings of the suggested factors but with some key changes needed.

First, the factors related to faithfulness were consistent with the initial proposal (Velo & Ruiz, 2023). The only discrepancy was an initial item planned for Resolution that was finally included as a Susceptibility factor (see result 1, Table 5), even though one component focused on Resolution came up too (see result 11, Table 5).

We considered this outcome to be a relevant find because of the need to distinguish between two options for unfaithfulness: if the concept applies equally no matter whether it relates to infidelity intercourse or experiencing jealousy, or, on the contrary, as upheld by Schmitt and Buss (2000), they are different factors with different attributes for individuals.

Thus, in the light of our results, we considered it suitable to assess them separately for a correct evaluation of the schemata, but taking into account a likely connection between them.

On the contrary, a different outcome was found regarding the theoretical factors related to seeking pleasure (Partner's and Self-oriented). The EFA yielded one factor containing items from Partner's pleasure, Self-pleasure, Self-presentation, and the inversed form of a strict item of Reproduction, which leave out the pleasure motivation in sexual activity. Thereby, we addressed this result as evidence of a probable general pleasure-orientation in the context of intercourse, self- and partner-oriented, in which sexual joy or delight is the main purpose of the action (Pleasure focus; see result 2, Table 5).

Moreover, this Pleasure Focus was not the only pleasure-oriented outcome. Another yielded component was found, including 2 items of self-pleasure (see result 8, Table 5), which likely evidences a specific identification of

| Summary of EF | A and Re | Summary of EFA and Reliability Analysis | | | |
|---|-------------------------------------|---|--|---|--|
| | | | Exploratory factor analysis | Scale and | Scale analysis and decision making |
| Component | Total | % of variance | Items resulted* | Reliability*** | ** Final label |
| | | loading | Factors theoretically based | | |
| 1 | 5.554 | 10.48% | 4 Susceptibility to unfaithfulness (1 inversed load) | $\alpha = .860$ | Susceptibility to unfaithfulness |
| | | | 1 Resolution to unfaithfulness (inversed load) | | |
| 2 | 4.706 | 8.87% | 2 Partner's pleasure | $\alpha = .67$ | Pleasure focus |
| | | | 1 Self-presentation | | |
| | | | 1 Self-pleasure | | |
| | | | 1 Reproduction (inversed load) | | |
| 3 | 3.339 | 6.29% | 2 Partner's pain | $\alpha = .75$ | Pain focus |
| | | | 1 Self- pain | | |
| 4 | 3.169 | 5.97% | 1 Erotophilia | $\alpha = .72$ | Social erotoph |
| | | | 2 Erotophobia (both inversed load) | | |
| ъ | 2.492 | 4.70% | 2 Submissiveness | $\alpha = .81$ | Submissiveness |
| | | | 2 Self-pain | | |
| 9 | 2.246 | 4.23% | 3 Spirituality | $\alpha = .77$ | Spirituality |
| 7 | 1.814 | 3.42% | 2 Domination | $\alpha = .66$ | Domination |
| | | | 1 Partner's pain | | |
| × | 1.748 | 3.29% | 2 Self-pleasure | r = .63 | Self-pleasure |
| 6 | 1.576 | 2.97% | 1 Cooperation | r = .47 | Agreement |
| | | | 1 Submissiveness | | |
| 10 | 1.541 | 2.90% | 3 Instrumentality (1 inversed load) | $\alpha = .66$ | Instrumentality |
| 11 | 1.420 | 2.67% | 2 Resolution to unfaithfulness (inversed load) | r = .68 | Resolution to unfaithfulness |
| 12 | 1.351 | 2.54% | 1 Self-presentation | | Self-presentation |
| 13 | 1.323 | 2.49% | 2 Cooperation | r = .46 | Desist |
| 14 | 1.154 | 2.17% | 1 Reproduction (inversed load) | r = .61 | Variability |
| | | | 1 Variability | | |
| 15 | 1.117 | 2.10% | 3 Emotional attachment | $\alpha = .67$ | Emotional attachment |
| 16 | 1.076 | 2.03% | 2 Erotophilia | $\alpha = .64$ | Erotoph/ |
| | | | 1 Erotophobia (inversed load) | | |
| Note. *Number They are labelle load > 50 are sh | of items ad by ever own in th | Note. *Number of items resulted for each factor They are labelled by every theoretical area they load > 50 are shown in the table *** α =Cronbac | Note. *Number of items resulted for each factor out of the 3 designed for each aspect, 4 in the case of Resolution and Susceptibility to unfaithfulness. They are labelled by every theoretical area they are meant to, as defined in the disambiguation review (Velo & Ruiz, 2023). **Only items with factor load > 50 are shown in the table *** α =Crombach's alpha: r =Shearman-Brow coefficient. McDonald's ones a not shown because no differences over | f Resolution and w (Velo & Ruiz, s omega is not s | 1 Susceptibility to unfaithfulness. 2023). **Only items with factor hown because no differences over |
| .03 with Cronbach's alpha were found | ach's alph | a were found. | | 300 | |



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| Component Correlation Matrix | Correlatic | on Matris | r | | | | | | | | | | | | | |
|------------------------------|------------|-----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Comp. | 1 | 7 | e | 4 | IJ | 9 | 2 | œ | 6 | 10 | 11 | 12 | 13 | 14 | 15 | 16 |
| 1 | 1.000 | 009 | 126 | .156 | 068 | .057 | 026 | .003 | 060 | 094 | 166 | 030 | .064 | 062 | .142 | 101 |
| 17 | 009 | 1.000 | 035 | .033 | .059 | .109 | 190 | 100 | .005 | 003 | 046 | .135 | 085 | 029 | .023 | .086 |
| က | 126 | 035 | 1.000 | .008 | .128 | 006 | 096 | 038 | .054 | .201 | .072 | .006 | 200. | .073 | 091 | 062 |
| 4 | .156 | .033 | .008 | 1.000 | .031 | 023 | 163 | 066 | .037 | 015 | .029 | 004 | .050 | 020 | 039 | .161 |
| Ŋ | 068 | .059 | .128 | .031 | 1.000 | .045 | 120 | .045 | .026 | .078 | .058 | .039 | 050 | 027 | 054 | .078 |
| 9 | .057 | .109 | 006 | 023 | .045 | 1.000 | 083 | .026 | 024 | 025 | .008 | .104 | .016 | .064 | .141 | 031 |
| 7 | 026 | 190 | 096 | 163 | 120 | 083 | 1.000 | .016 | 047 | 063 | 021 | 108 | .040 | 048 | 048 | .008 |
| x | .003 | 100 | 038 | 066 | .045 | .026 | .016 | 1.000 | 000. | 035 | .025 | 051 | .050 | .049 | 061 | 029 |
| 6 | 060 | .005 | .054 | .037 | .026 | 024 | 047 | 000. | 1.000 | .074 | .016 | .028 | 004 | 034 | 040 | .040 |
| 10 | 094 | 003 | .201 | 015 | .078 | 025 | 063 | 035 | .074 | 1.000 | .013 | .014 | .023 | .093 | 011 | 066 |
| 11 | 166 | 046 | .072 | .029 | .058 | .008 | 021 | .025 | .016 | .013 | 1.000 | 029 | 009 | .081 | 160 | .007 |
| 12 | 030 | .135 | .006 | 004 | .039 | .104 | 108 | 051 | .028 | .014 | 029 | 1.000 | 022 | .067 | .014 | 028 |
| 13 | .064 | 085 | 200. | .050 | 050 | .016 | .040 | .050 | 004 | .023 | 009 | 022 | 1.000 | .028 | 029 | 003 |
| 14 | 062 | 029 | .073 | 020 | 027 | .064 | 048 | .049 | 034 | .093 | .081 | .067 | .028 | 1.000 | 032 | 074 |
| 15 | .142 | .023 | 091 | 039 | 054 | .141 | 048 | 061 | 040 | 011 | 160 | .014 | 029 | 032 | 1.000 | 049 |
| 16 | 101 | .086 | 062 | .161 | .078 | 031 | .008 | 029 | .040 | 066 | .007 | 028 | 003 | 074 | 049 | 1.000 |
| | | | | | | | | | | | | | | | | |

a self-oriented need of physical pleasure to achieve a satisfying experience (Self-pleasure).

We consider this result highlights the main idea upheld throughout the theoretical and empirical study: schemata may vary and differentiate depending on the self or outer focus of the action. One's own consideration within a given scenario constitutes then a key variable to have in mind when evaluating sexual behaviour and appraisal. In this case, equal pleasure is found to be a general objective for individuals themselves and when they focus on their partners, but another specific consideration turns up remarking the own and personal physical intercourse experience.

Furthermore, we found more changes in factors related to social standing and pain. Although we theoretically divided them into role (Domination and Submissiveness), and pain focus (Partner's and Self), they finally turned out to be just three factors with mixed items from the previous four.

We reviewed the item descriptions in order to understand the reorganization and considered that those pain items eventually associated with role performance were the ones depicted with the lowest level of intensity. Therefore, we discussed the possibility of distinguishing between these two apparently related aspects. For one thing, what subjects understood as a role performance (eventually defined by items theoretically designed for Domination + Partner's pain, and Submissiveness+Selfpain), as shown in results 5 and 7 in Table 5, would not mean hard pain or humiliation but may only imply a graded way of interacting during intercourse. This role would differ from what we called Pain Focus (see result 3, Table 5), which consequently means a tendency specifically oriented to higher intensity of physical or mental suffering, aimed at oneself or one's partner.

This reassignment and the careful analysis of the items led us to discuss the Domination and Submissiveness roles as possibly being associated to some behaviours and attitudes with mild or moderate intensity, unlikely perceived by subjects who consider the sexual context as a scenario of intense pain-oriented acts (Painfocus), in which the intensity of similar actions may define the way individuals plan, behave and appraise.

Another change showed by the analysis was the general conceptualization of sexual intercourse (Erotophilia and Erotophobia), which were intentionally proposed using two terms, although they had also been previously defined as two poles of the same factor (Shaw & Rogge, 2016).

Indeed, we finally labelled the continuum between those two poles, philia and phobia, Eroto/ (see 16, Table 5). Unexpectedly, we found that individuals selected the newly designed items by answering in different patterns for what could be labelled as Social erotoph/ (see result 4, Table 5), and the relevant result, (self) Erotoph/ (see 16, Table 5). This conclusion of splitting Erotoph/ into social and self was made after a careful review of the items that compose both factors and becoming aware of the unlikely definition of those focused on self or outer purpose. While trying to formulate items following the SO-CSSB conditions (Velo & Ruiz, 2023), it seems that we crossed the line between one's own and others' appraisal, and eventually participants pointed it out. These results strengthen again the main precept of the need of individual and selffocused assessment in sexual behaviour to avoid biases in the final outcomes. We, therefore, decided to remove Social Erotoph from our final model given that it did not meet the baseline conditions and, consequently, we labelled Self-erotoph/ as simply Erotoph/.

The EFA also pointed out that Cooperation was another factor subject to modification. It was divided into another two components, which we discussed from their item composition as one oriented to the degree of explicit agreement among partners during sexual intercourse (Agreement; see result 9, Table 5), and another describing one partner desisting or waiving some behaviours in favour of the other during the intercourse (Desist; see 13, Table 5). The Agreement set was conformed also by a prior Submission item.

Conversely, regarding the accurate elements of the theoretical proposal, three factors corroborated the theoretical model in the exact same consideration: Spirituality, Instrumentality and Emotional Attachment (see results 6, 10 and 15, respectively, Table 5).

Finally, focusing on the weakest results of the analysis, we found an isolated item of Self-presentation (see result 12, Table 5), indicating the social status held by partners after the intercourse, and a last facet with Variability and Reproduction items (see result 14, Table 5), apparently sharing the meaning on purpose or motivation for sexual intercourse, to the Variability definition as discussed.

Figure 1 shows the final allocation of every component in a scale from minimum to maximum percentage of variance explained in the analysis. It provides a comprehensive picture of the evidence obtained along with the modifications of factor compositions, easing comparisons between the theoretical model and the empirical outcome.

Essentially, the quantitative analysis specified the theoretical factors in terms of the participants' answers, achieving a more accurate picture of the real boundaries within the schemata applied by individuals.

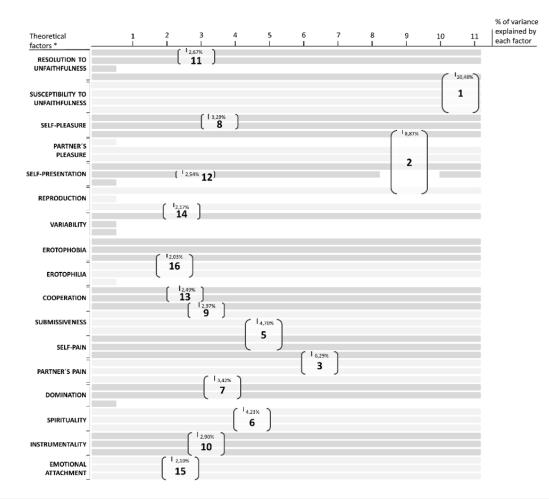
5. Conclusion

In this study we report a second stage to overcome the actual lack of consistency among studies on sexual beliefs by introducing a set of results based on data collected within the frame of theory disambiguation and unification, gathering a wide range of approaches.



Figure 1

Comparison between Theoretical Model and EFA Results



Note. *Numbers matching to final outcomes from EFA (Table 5). Factor 4 was excluded after discussion on Erotoph/ results.1: Susceptibility to unfaithfulness; 2: Pleasure focus; 3: Pain focus; 5: Submissiveness; 6: Spirituality; 7: Domination; 8: Self-pleasure; 9: Agreement; 10: Instrumentality; 11: Resolution to unfaithfulness; 12: Self-presentation; 13: Desist; 14: Variability; 15: Emotional attachment; 16: Erotoph/.

The quantitative result concerning the present report constitutes a key step to validate the theoretical model which, indeed, exposed the necessity to include some changes to improve the understanding of sexual behaviour appraisal and the self-oriented goals of individuals.

In short, this effort provides a comprehensive picture of sex cognitions constrained by an accurate definition of what can be identified as a cognitive schemata, revealed after a process of concept disambiguation, and a whole set analysis.

For all aforementioned reasons, we consider the model of SO-CSSB to be a good candidate to improve the quality of sexual research and the validity of its results. This increase in the quality of evaluations is believed a potential improvement in the development of more predictive models and tools in the research of human sex behaviour.

6. Limitations

Two main limitations must be mentioned about the study. The first one is the early stage of model development: as the present study is substantiated in a literature review (Velo & Ruiz, 2023), the actual lack of evidence within its terms hinders the model to be subject of further considerations regarding the accuracy of the internal and external consistency of the factors when compared to other samples, or the prospective or retrospective prediction of some variables of interest. On the contrary, it introduces a quantitative set of results to support the consideration of the SO-CSSB model. Therefore, every conclusion must be regarded within a preliminary stage scope.

Secondly, regarding to the sample, a larger group for the EFA, and an addition of a second sample to test the model in a confirmatory analysis, would be desirable to



set a more robust model. On the same line, different samples may be relevant to test the general character of the model, and if is equally applicable to every population as it is designed.

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