

## Russian Validation of Homophobia Scale (HS)

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### ABSTRACT

**Introduction:** A three-factors self-reporting questionnaire, consisting of 25 items, related to behavior/negative affect, affect/behavioral aggression, and negative cognition towards homosexual people, was administered to a sample of 200 farmer workers recruited in various ways from two Bryansk and Kursk regions of Russian Federation. **Aim:** The objective of this paper is to validate the HS in the Russian sample in Russian language. **Methods:** A Russian translation of the HS was carried out by two bilingual translators, after which an English native translated the Russian test back into the English language. **Main Outcome Measures:** Together with the translated version of HS was administered a biodata questionnaire including the main information as age, level of education, partnership status, faith and sex orientation. **Results :** Analyzing obtained data of 200 subjects (100 (50%) female and 100 (50%) male) with ages ranging from 18 to 50 years (mean age = 21.19±2.65; SD: 8.82) showed an overall Cronbach's  $\alpha$  coefficient 0.92 of the internal consistency. All three domains had a good alpha coefficient (three higher than .91), whereas in the total score was .87. The test-retest reliability results: behavior/negative affect was  $r = 0.79$  ( $P < 0.0001$ ), affect/behavioral aggression was  $r = 0.82$  ( $P < 0.0001$ ), negative cognition was  $r = 0.74$  ( $P < 0.0001$ ) and the HS total score was  $r = 0.93$  ( $P < 0.0001$ ). **Conclusions:** This study offers a new tool to assess homophobia in Russian population. The Russian validation of the HS in Russian language revealed the use of this self-report test to have good psychometric properties. Therefore, this scale is a necessary diagnostic instrument to detect subtle homophobic attitudes toward homosexual people and useful in the preventive programs of homophobic behavior, in the clinical praxis.

**Keywords:** Homophobia, Russia, Homophobia Scale, Russian, LGBT, Psychometrics

**H**omophobia is defined as the negative feelings, attitudes and fear displayed toward homosexual people [1] or towards “suspected” people in homosexual characteristics. Negative beliefs about homosexuality and homophobic prejudices are present in West society and pervasive in East society [2]. The fact that the homosexual people can develop, adopt towards homosexuality negative feelings and views suggests the higher homophobia level in the heterosexual sample [3], [4], [5]. The homophobic attitudes are appraised from the

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Received: October 06, 2017; Revision Received: November 01, 2017; Accepted: November 23, 2017

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homophobic information transferred by sociality and mass-media. The individual psychological development consists in adaptation to the social norms, that consists also in accepting of the certain point of view (not complex view) and prejudice socially prepared for thinking facilitation. The homosexual prejudices are negative because they form a distorted LGBT-image causing the irrational fear of sexual diversity and intolerance towards the homosexual people [1], [6].

The fact of aggressive homophobic behavior and its negative consequences conducted to the exclusion of homosexuality from the second edition of the Diagnostic and Statistical Manual of Mental Disorders [7] The aggressive homophobic symptoms as discrimination against homosexual people through psychological and social aversion and, sometimes, as physical violence are called homonegativity, distinguishing this aggressive attitude from the phobia [8]. Regardless, research into homophobia or homonegativity amplified in 1983 after the nosological revisions of the DSM (*Diagnostic and Statistical Manual of Mental Disorders*). Indeed, that year was characterized by removal of homosexuality from the list of mental health problems, demonstrating more social acknowledgment of homosexuality and homosexuals [8], [9].

In any case, the recurrence of homophobic attitudes have not decreased in individuals, as a signal of the necessity of a correct measurement of homophobia phenomenon [10], [11]. The most oftentimes used instruments evaluating the homophobia development are next: Homophobia Scale (Bouton et al. 1987) [12]; Multidimensional Heterosexism Inventory (Walls 2008) [13]; LGB-KASH (Worthington, Dillon, and Becker-Schutte 2005) [14]; and Modern Homophobia Scale (Raja and Stokers 1998) [15]; and Homophobia Scale (Wright, Adams, and Bernat 1999) [16].

The Homophobia Scale of Bouton et al. was initially composed of 30 items, later reduced to 18, assessed as positive/negative on the 11 points scale. The Homophobia Scale was administered firstly to 528 American under-graduate students. The Modern Homophobia Scale (Raja and Stokers 1998) composed of items gleaned from the scientific literature of the main tests used and was administered to 322 students. The LGB-KASH (Worthington, Dillon, and Becker-Shutte 2005), designed by 32 items; 28 of them was inserted after the pilot study. The Multidimensional Heterosexism Inventory (Walls 2008), for the first time consisted of 44 items taken from the previous version, now consists of 23 items decided upon after analysis of four specific factors. Other significant instrument is the Attitudes toward gays and lesbians designed by 20 items along five-point Likert scale [17], [18].

After analyzing above tools the author considers the Homophobia Scale (Wright, Adams, and Bernat 1999) to be one of the most valid self-report tests for the homophobic construct assessment, because it overcomes the criticism of many scales, assessing the immense range of homophobic aspects in comparison with them [19]. In such manner, a recent systematic review considers the Homophobia Scale a sufficient tool to considering the complex phenomenon of homophobia in a newly and comprehensively [20].

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The aim of the first validation of the Homophobia Scale was developing and validating its initial psychometric characteristics, and to describe precisely the homophobia aspects such as cognitive, affective and behavioral. After its factor analysis, the scale was divided into three subscales: behavior/negative feeling, feeling/behavioral aggression, and cognitive negativism. The HS' development in the English language and the related validation was performed on a sample of 321 subjects at its first administration and 122 at the test–retest analysis.

The psychometric properties of the Homophobia Scale were calculated with Cronbach's  $\alpha$  coefficient for internal consistency ( $\alpha = 0.9528$ ) and the calculation of the test–retest reliability shows that a Pearson coefficient was  $r = 0.958$  ( $P < 0.01$ ). The Pearson coefficient's concurrent validity between the HS and the Index of Homophobia [19] used indicates a high level of correlation ( $r = 0.658$ ,  $P < 0.01$ ). The HS in its final version, validated by Wright, Adams and Bernat (1999) consists of 25 items and assesses three factors: behavior/negative feeling, emotion/aggression behavioral, and cognitive negativism. The high level of homophobia was indicated by higher scores in the total score of the scale. The distribution of the answers represents the five-point Likert scale from “strongly agree” (1) to “strongly disagree” (5).

### *Aim*

The aim of this study was a translation of the HS from English into Russian and its successive validation in a sample of the Russian population, especially in farm workers of two regions.

## **METHODS**

### *Sample Recruitment*

The HS and the socio-demographic questionnaires were given to a pool of 200 farmer workers of two Russian oblasts in September 2017. They were heterosexual subjects aged 18–50 years, voluntarily decided to participate and without severe mental disorders, that is, mood disorders or psychosis as assessed by a clinical psychologist according to the DSM-V criteria.

### *Main Outcome Measures*

The Russian translation of the HS and the biodata (like age, level of education, partnership status, faith and sex orientation) questionnaire was administered.

### *Translation*

During the translating process of the Homophobia Scale the Minimal Translation Criteria were followed by two independent bilingual translators for each language [20]. Each item was adapted and evaluated by the author to understanding of the Russian people, especially for the persons with low education level. Final Russian version and back-translated version of the HS were revised and approved with suggestions by one of the original authors, Dr. Lester Wright

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### Statistical Analysis

The data collected were organized in an Excel 2007 spreadsheet, and SAS 9.0 software was used for descriptive and inferential analysis. The continuous variables was presented as mean  $\pm$  standard deviation, and categorical variables are expressed as numbers and percentages. Categorical variables were represented as percentage and absolute frequencies. The assessment of the internal consistency was produced by the overall Cronbach's  $\alpha$  coefficient following the 25 items of the HS and also for the four domains. In addition, the factorial analysis was employed to test the eigenvalues and the variance. The test-retest reliability was performed by the Pearson coefficient, calculated with two administrations, first at the baseline and then regularly after 14 days (82%), and after 15-16 days (18%). The correlation among the factors of HS was carried out. All statistical analyses and reevaluations were carried out using SPSS 20.0 (SPSS Inc., Chicago, IL, USA).

## RESULTS

Overall, data of 200 subjects (range 18–50 years; mean age = 21.19 $\pm$ 2.65; SD: 8.82; 100 (50%) female and 100 (50%) male) were retrieved for analysis. Socio-demographic characteristics revealed that, among the recruited subjects, there were no differences by gender. Partnership status: 164 (82%) of subjects were in a relationship. Sexual orientation: 100% of heterosexuals. Faith: 192 (96%) of faithfuls. The mean score of the HS was 60.26  $\pm$  18.13 (Table 1).

**Table 1.** Demographic characteristics and scores to Homophobia Scale

		<b>n (%)</b>
<b>Age</b>	Mean = 21.19 $\pm$ 2.65	100; 100%
<b>Gender</b>	Women	100 (50%)
	Men	100 (50%)
<b>Partnership status</b>	Have a relationship	164 (82%)
	Single	36 (18%)
<b>Sex orientation</b>	Heterosexual	200 (100%)
<b>Faith</b>	Faithful	126 (93%)
	Atheist	74 (37%)
<b>Homophobia Scale (mean <math>\pm</math> SD)</b>	Total score	60.26 $\pm$ 18.13
	Behavior/negative affect	23.28 $\pm$ 7.12
	Affect/behavioral aggression	22.67 $\pm$ 6.52
	Negative cognition	14.26 $\pm$ 4.49

**Table 1** Demographic characteristics and scores to Homophobia Scale

Soon after the extraction and rotation, we considered the eigenvalues higher of one, and the variance explained was of 68.1%. The internal consistency analysis showed an overall Cronbach's  $\alpha$  coefficient was of 0.92. The three subscales presented the Cronbach's  $\alpha$  coefficient 0.91 in behavior/negative affect, 0.93 in affect/behavioral aggression, and 0.92 in negative cognition, whereas in the total score was 0.87. (Table 2).

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**Table 2.** Internal consistency of the Homophobia Scale in Russian sample (n=200)

Domains of Homophobia Scale and overall internal consistency	Cronbach's $\alpha$
Behavior/negative affect	0.91
Affect/behavioral aggression	0.93
Negative cognition	0.92
HS total score	0.87
Overall Cronbach's $\alpha$	0.92

**Table 2 Internal consistency of the Homophobia Scale in Russian sample (n = 200)**

For the test–retest reliability, the author assessed 200 and analyzed the Pearson coefficient related to the total score and the three subscales. The test–retest analysis had two administrations, one at the baseline and one after 14 and 15 days for the absents. The author founded a significant and positive correlation in the four domains of the HS after the test–retest analysis. In particular, the HS total score was  $r=0.93$  ( $P<0.0001$ ), the behavior/negative affect was  $r=0.79$  ( $P<0.0001$ ), the affect/behavioral aggression was  $r=0.82$  ( $P<0.0001$ ), and the negative cognition was  $r=0.74$  ( $P<0.0001$ ) (Table 3).

**Table 3.** Test-retest reliability (n=200)

Domains of Homophobia Scale	Pearson coefficient
HS total score	0.93*
Behavior/negative affect	0.79*
Affect/behavioral aggression	0.82*
Negative cognition	0.74*

\*P <0.0001

**Table 3 Test–retest reliability (n = 200)**

Moreover, as shown in Table 4, we can see the positive correlation among the HS domains. Each of the domains positively correlate with another domain of the HS, for example, the behavior/negative affect has a positive correlation with affect/behavioral aggression ( $r=0.65$ ;  $P<0.0001$ ), with negative cognition ( $r=0.77$ ;  $P<0.0001$ ), and with the total score of the HS ( $r=0.93$ ;  $P<0.0001$ ). In addition, affect/behavioral aggression correlates positively with negative cognition ( $r=0.60$ ;  $P<0.0001$ ) and with the total score of the HS ( $r=0.83$ ;  $P<0.0001$ ), and negative cognition has a positive association with the total score of the HS ( $r=0.87$ ;  $P<0.0001$ ).

**Table 4.** Correlation among the domains of Homophobia Scale

	Behavior/negative affect	Affect/behavioral aggression	Negative cognition	HS total score
Behavior/negative affect	\	0.65*	0.77*	0.93*
Affect/behavioral aggression	\	\	0.60*	0.83*
Negative cognition	\	\	\	0.87

\*P <0.0001

**Table 4 Correlation among the domains of Homophobia Scale**

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In the **Appendix 1** is shown the usefulness of the Russian version of HS\* in Russian language and it's scoring as a psychometric instrument.

Appendix I. Russian version of Homophobia Scale*					
	1	2	3	4	5
1. Геи меня нервнируют					
2. Геи заслуживают на то, что получают					
3. Для меня гомосексуальность является приемлемой					
4. Узнав, что мой друг гей, я б перестал с ним дружить					
5. Считаю, что гомосексуалы не должны работать с детьми					
6. Выражаю геям оскорбительные комментарии					
7. Мне нравится находиться в компании геев					
8. Брак между гомосексуалами является приемлемым					
9. Выражаю оскорбительные комментарии «петух» или «голубой» людям, которых я подозреваю в том, что они геи					
10. Меня не волнует, то, что мои друзья геи или гетеросексуалы					
11. Я бы не рассердился, узнав, что мой лучший друг гей					
12. Гомосексуальность аморальна					
13. Презираю и дразню геев					
14. Думаю, что нельзя доверять гомосексуальному человеку					
15. Боюсь, что гомосексуалы будут заигрывать ко мне					
16. Организации, которые способствуют защите прав геев необходимы					
17. Повреждал имущество людей геев, например, «царапал ключами» их машины					
18. Я чувствовал бы себя удобно, если бы мой компаньон по комнате был гей					
19. Избил бы гомосексуала, если бы он хотел меня соблазнить					
20. Гомосексуальная поведение не должно наказываться					
21. Избегаю геев					
22. Мне не мешает, когда я вижу двух гомосексуалов в публичном месте					
23. Когда вижу гея, думаю «какой мусор»					
24. Встречая кого-то, стараюсь понять гей ли он					
25. Имею налаженные отношения с людьми, которых подозреваю, в том, что они геи					

## DISCUSSION

The study consisted in the first translation and validation of the Russian HS in the Russian language. During this study was analyzed its implementation of the assessment of phobic behavior against homosexuals in both research and clinical contexts.

After validation of the HS emerges the high administrating, items' understanding qualities and good psychometric characteristics of this psychometric instrument, incentivizing the use of HS in Russian Federation.

The assessment with Cronbach's  $\alpha$  of the internal consistency revealed high values for the overall coefficient and also in the four subscales. Such as in the original version of Homophobia Scale has been explained about 70% of the variance [16] and the test-retest reliability demonstrated another positive characteristic regarding the validity of this test, such as the correlation coefficients among the scales. All these psychometric elements contribute to the HS and should incentivize it's use in Russian Federation, especially in Russian speaking subjects [21]. The homophobic behaviors are more present and episodes of denigration or violence toward homosexual people are more frequent in the Russian population than in Europe countries' population [23], [24].

Numerous LGBT-rights associations promote preventive programs toward violence, discrimination, and homophobic bullying in many public institutions, in schools for create a culture of respect and equality, also from a judicial point of view [25].

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In any case, adequate tools for the assessment of homophobia in Russia are absent and the HS is the first psychometric instrument actually validated in Russian sample.

The author assumes that the assessment of such specific domains of the Russian HS as behavior/negative affect, affect/behavior aggression, and negative cognition could be very useful for the measurement and studying of homophobia by clinics and researchers in a subject or in an entire study population. These domains evaluate the behaviors, specific feelings, emotional arousal linked to homosexual people and to homosexuality [26].

There are researchers who investigated the unchecked psychological mechanisms related to homophobia involving a conservative culture and anger [27], [28]. These aspects with specific items with integration among the psychological, cultural, and emotional factors that contribute to homophobic behavior are also investigated by the Homophobia Scale.

The potential offenders and victims can have the benefits only in case of the precise assessment of potential homophobic tendencies [6]: preventing the deviant behavior in offenders, such as abuse of substances, generalized violence and preventing the potential victims of psychological or physical aggression.

Furthermore, the homophobia assessment and the diffusion of this praxis can indirectly improve the social perception of homosexuality and related aspects. In fact, homosexual people are greatly influenced by a homophobic society, and this contributes to the phenomenon of internalized homophobia in homosexuals. Several studies point out that internalized homophobia causes depression, distress, and suicide [29], [30], [31], [32].

The goals of a free society are psychological and physical health and rights of homosexuals and the individuation of deviant behaviors as homophobia is a desirable capacity that each operator in educational and care contexts should know. There're different researches investigating the approach of physicians and nurses to homosexuals [33], [34], with some disagreeable surprises [35], [36]. Consequently, it is also indispensable to activate adequate programs of prevention of homophobia among experts in sexuality, as psychologists and gender rights defenders, in various social areas, and to introduce the HS into the development of these prevention programs.

## CONCLUSION

The assessment of homophobia is an essential issue in the safeguarding of the psychological, social, and physical health of homosexuals. The author concluded that the Russian version of HS can be used in routine psychological practice as a reliable diagnostic instrument for the estimation of homophobic attitudes experienced by a patient in specific contexts, such as health institutions, workplaces, universities, religious institutions and schools. Also the HS can be used for monitoring efficiency of psychotherapy and in mental disorders research.

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### *Acknowledgments*

The author thanks Dr. Lester Wright for comments, suggestions and permissions.

### *Conflict of Interest*

The author report no conflicts of interest.

### *Supporting Information*

Tables: 1, 2, 3, 4; Appendix 1 (Russian version of Homophobia Scale\*).

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**How to cite this article:** Tuziak B (2017). Russian Validation of Homophobia Scale (HS). *International Journal of Indian Psychology*, Vol. 5, (1), DIP: 18.01.046/20170501, DOI: 10.25215/0501.046