

## Supplemental Material S4

## Online Questionnaire

## Sexual orientation

*Sexual self-identification*<sup>+</sup> (Kinsey-like scale; Kinsey, Pomeroy, & Martin, 1948)

<sup>†</sup>We adapted the original Kinsey-scale for our study with regard to the scale range and the description for every single scale point.

Item: “Regarding my sexual orientation I identify as...”

1	2	3	4	5	6	7
Exclusively gay	Mainly gay	Somewhat gay	Equally gay and straight	Somewhat straight	Mainly straight	Exclusively straight

*Sexual orientation towards men and women (more objectifiable measure)*

“How often have you experienced...?”

	Never	Very seldom	Seldom	From time to time	Often	Very often	Always
	<i>1</i>	<i>2</i>	<i>3</i>	<i>4</i>	<i>5</i>	<i>6</i>	<i>7</i>
...sexual fantasies with men	○	○	○	○	○	○	○
...sexual fantasies with women	○	○	○	○	○	○	○
...romantic attraction towards men	○	○	○	○	○	○	○
...romantic attraction towards women	○	○	○	○	○	○	○
...physical attraction towards men	○	○	○	○	○	○	○
...physical attraction towards women	○	○	○	○	○	○	○
...sexual interaction with men	○	○	○	○	○	○	○
...sexual interaction with women	○	○	○	○	○	○	○

## Masculinity/femininity

*Traditional Masculinity–Femininity Scale* (TMF by Kachel, Steffens, & Niedlich, 2016).

	Very masculine						Very feminine
	<i>1</i>	<i>2</i>	<i>3</i>	<i>4</i>	<i>5</i>	<i>6</i>	<i>7</i>
I consider myself...	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Ideally, I would like to be...	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Traditionally, my interests would be regarded as...	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Traditionally, my attitudes and beliefs would be regarded as...	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Traditionally, my behavior would be regarded as...	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Traditionally, my outer appearance would be regarded as...	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

*German Extended Personal Attributes Questionnaire Masculinity-Scale* (GEPAQ-M by Runge, Frey, Gollwitzer, Helmreich, & Spence, 1981) is available upon request from the copyright owner.

*German Extended Personal Attributes Questionnaire Femininity-Scale* (GEPAQ-F by Runge, Frey, Gollwitzer, Helmreich, & Spence, 1981) is available upon request from the copyright owner.

## Psycho-social identification

*Collective Self-Esteem Scale* (CSES by Luhtanen & Crocker, 1992) is available upon request from the copyright owners.

## Gender-role self-concept during childhood

*Childhood Gender Nonconformity Scale*<sup>+</sup> (CGNS, see Rieger, Linsenmeier, Gygax, & Bailey, 2008).

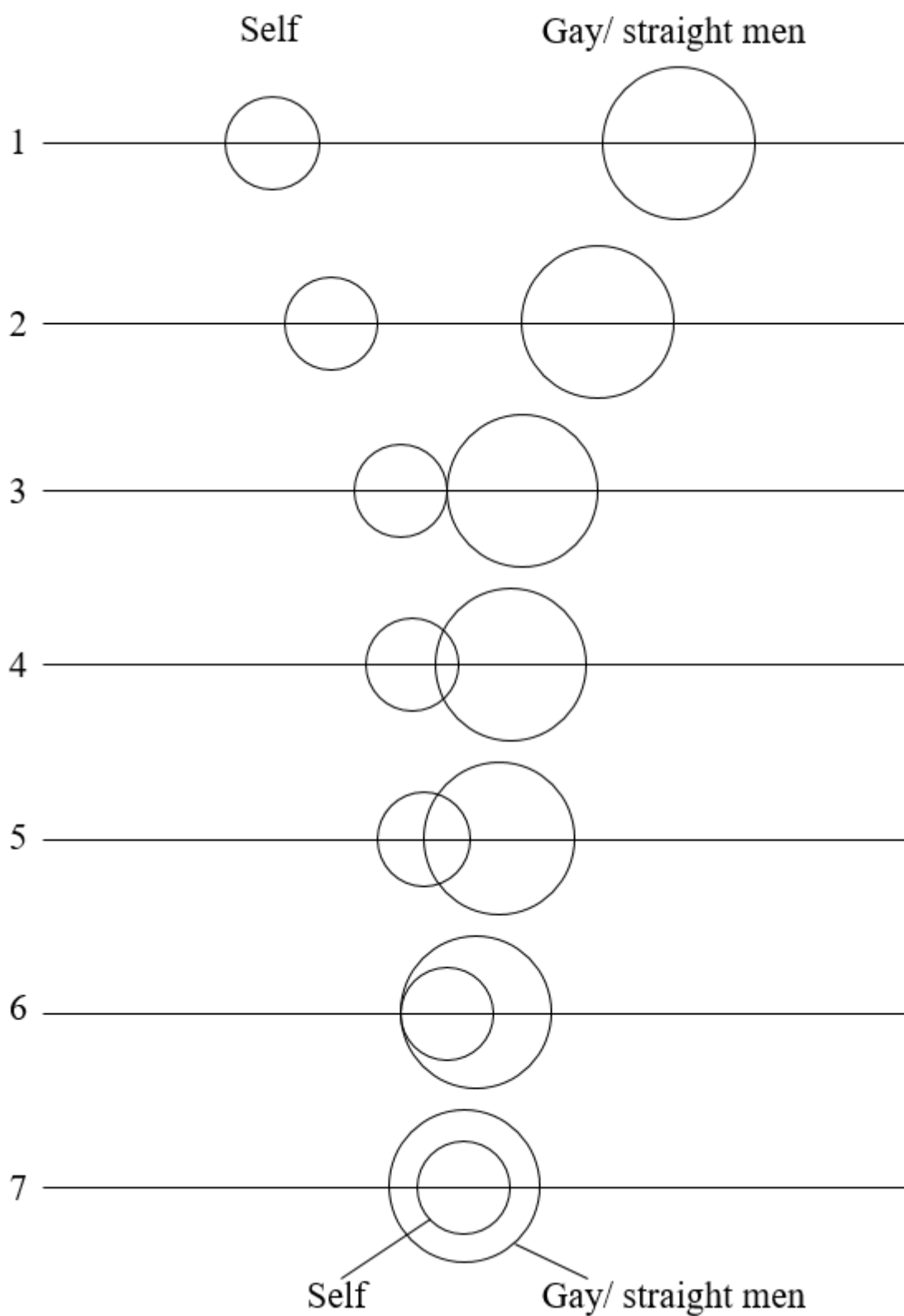
<sup>+</sup>We adapted the original CGNS scale for our study with regard to scale range (1–5), description of the scale points, and a few wordings. Moreover, we added the last item to our scale.

	I strongly disagree		Partly agree		I strongly agree
	<i>1</i>	<i>2</i>	<i>3</i>	<i>4</i>	<i>5</i>
I was a feminine boy.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
As a child I was called a sissy by my parents and/or peers.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
As a child I sometimes wished I had been born a girl rather than a boy.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
As a child I preferred playing with girls rather than boys.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
As a child I often felt that I had more in common with girls than boys.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
As a child I usually avoided masculine clothing.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
As a child I did not like competitive sports such as soccer or basketball.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
*As a child I behaved like a typical boy.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

\*Items with asterisks had to be recoded (1 to 5, 2 to 4, 3 to 3, 4 to 2, 5 to 1).

### Group affiliation (Affiliation to gay and straight men)

Item: “Please mark the picture that describes your relationship to the group of gay/straight men best.”



## Social environment

### -Present social environment

*Current contact to gay men* (based on Hodson, Harry, & Mitchell, 2009).

Item: “Frequency of contact to gay men.”

1	2	3	4	5	6	7
Never	Almost never	Seldom	Sometimes	Often	Very often	Always

*Current contact to straight men*

Item: “Frequency of contact to straight men.”

1	2	3	4	5	6	7
Never	Almost never	Seldom	Sometimes	Often	Very often	Always

*Gender distribution of friends*

Item: “My circle of friends consists of...”

1	2	3	4	5	6	7
...women only	...women mainly	...somewhat more women	...women and men equally	...somewhat more men	...men mainly	...men only

*Sexual orientation of male friends*

Item: “My female circle of friends consists of...”

1	2	3	4	5	6	7
... gay men only	... gay men mainly	...somewhat more gay men	... gay and straight men equally	...somewhat more straight men	... straight men mainly	... straight men only

**-Childhood social environment**

*Contact to girls during childhood*

Item: “Contact to girls.”

1	2	3	4	5	6	7
Never	Very seldom	Seldom	From time to time	Often	Very often	Always

*Contact to boys during childhood*

Item: “Contact to boys.”

1	2	3	4	5	6	7
Never	Very seldom	Seldom	From time to time	Often	Very often	Always

## Voice self-assessment

	Strong rejection						Strongly agreement
	<i>1</i>	<i>2</i>	<i>3</i>	<i>4</i>	<i>5</i>	<i>6</i>	<i>7</i>
I believe other people think I speak in a masculine way.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I think I speak stereotypically straight.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
*In other people’s opinion, I speak stereotypically gay.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
*Other people think I speak in a feminine way.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
*In my opinion, I speak stereotypically gay.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I think I speak masculine.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

\*Items with asterisks had to be recoded (1 to 7, 2 to 6, 3 to 5, 4 to 4, 5 to 3, 6 to 2, 7 to 1).

### Coming-out measures (Data collected for non-straight men only)



*Concealment motivation* (subscale of the Lesbian, Gay, and Bisexual Identity Scale by Mohr & Kendra, 2011)

[illegible]

*Perceived discrimination experiences* (based on Steffens, Bergert, & Heinecke, 2010; Williams, Yu, Jackson, & Anderson, 1997)

	Never	Once	Rarely	Sometimes	Often
	<i>1</i>	<i>2</i>	<i>3</i>	<i>4</i>	<i>5</i>
Other people act as if I was uncomfortable to them.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I was insulted or called names.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I feared something could happen to me.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Compared to other people I felt like I was treated unfair.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I was harassed.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I received poorer service in bars or restaurants.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
In shops I was ignored or treated unfriendly.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I was threatened.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Other people treated me with less respect.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Other people ignored me.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I was treated less politely compared to other people.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I experienced disadvantages during renting a flat.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I lost my job or did not got one, because I’m lesbian or bisexual.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

## Explicit speech stereotypes

		Only gay						Only straight
		1	2	3	4	5	6	7
1	High	o	o	o	o	o	o	o
2	Slow	o	o	o	o	o	o	o
3	Variable	o	o	o	o	o	o	o
4	Loud	o	o	o	o	o	o	o
5	In dialect	o	o	o	o	o	o	o
6	Succinct	o	o	o	o	o	o	o
7	Unclear	o	o	o	o	o	o	o
8	Bright	o	o	o	o	o	o	o
9	Non-nasal	o	o	o	o	o	o	o
10	Blunt	o	o	o	o	o	o	o
11	Hoarse	o	o	o	o	o	o	o
12	Soft	o	o	o	o	o	o	o
13	Lots of pauses	o	o	o	o	o	o	o
14	Rather asking	o	o	o	o	o	o	o
15	Shrill	o	o	o	o	o	o	o
16	Strong	o	o	o	o	o	o	o
17	Lots of resonance	o	o	o	o	o	o	o
18	Clear	o	o	o	o	o	o	o
19	Hard	o	o	o	o	o	o	o
20	Breathy	o	o	o	o	o	o	o

		Only gay					Only straight	
		1	2	3	4	5	6	7
21	Dark	o	o	o	o	o	o	o
22	Rather stating	o	o	o	o	o	o	o
23	Strained	o	o	o	o	o	o	o
24	Fast	o	o	o	o	o	o	o
25	Slack	o	o	o	o	o	o	o
26	Squeaky	o	o	o	o	o	o	o
27	Raspy	o	o	o	o	o	o	o
28	Sedate	o	o	o	o	o	o	o
29	Staccato	o	o	o	o	o	o	o
30	Monotonous	o	o	o	o	o	o	o
31	Weak	o	o	o	o	o	o	o
32	Stagnant	o	o	o	o	o	o	o
33	Standard German	o	o	o	o	o	o	o
34	Nasal	o	o	o	o	o	o	o
35	Little pauses	o	o	o	o	o	o	o
36	Stretched	o	o	o	o	o	o	o
37	Low	o	o	o	o	o	o	o
38	Fluid	o	o	o	o	o	o	o
39	Quiet	o	o	o	o	o	o	o
40	Pointed	o	o	o	o	o	o	o

## References

- Hodson, G., Harry, H., & Mitchell, A. (2009). Independent benefits of contact and friendship on attitudes toward homosexuals among authoritarians and highly identified heterosexuals. *European Journal of Social Psychology*, 39, 509–525.
- Kachel, S., Steffens, M. C., & Niedlich, C. (2016). Traditional masculinity and femininity: Validation of a new scale assessing gender roles. *Frontiers in Psychology*, 7, Article 956. <https://doi.org/10.3389/fpsyg.2016.00956>
- Kinsey, A., Pomeroy, W., & Martin, C. (1948). *Sexual behavior in the human male*. Philadelphia, PA: W. B. Saunders Co.
- Luhtanen, R., & Crocker, J. (1992). A Collective Self-Esteem Scale: Self-evaluation of one’s social identity. *Personality and Social Psychology Bulletin*, 18, 302–318.
- Mohr, J. J., & Kendra, M. S. (2011). Revision and extension of a multidimensional measure of sexual minority identity: The Lesbian, Gay, and Bisexual Identity Scale. *Journal of Counseling Psychology*, 58, 234–245.
- Rieger, G., Linsenmeier, J. A. W., Gygax, L., & Bailey, J. M. (2008). Sexual orientation and childhood gender nonconformity: Evidence from home videos. *Developmental Psychology*, 44, 46–58.
- Runge, T. E., Frey, D., Gollwitzer, P. E., Helmreich, R. L., & Spence, J. T. (1981). Masculine (instrumental) and feminine (expressive) traits: A comparison between students in the United States and West Germany. *Journal of Cross-Cultural Psychology*, 12, 142–162.
- Steffens, M. C., Bergert, M., & Heinecke, S. (2010). *Doppelt diskriminiert oder gut integriert? Zur Lebenssituation von Lesben und Schwulen mit Migrationshintergrund (Discriminated twice or well integrated? The living situation of lesbians and gay men with a migration background)*. Berlin, Germany: LSVD. Retrieved from [http://www.migrationsfamilien.de/pdf/Studie\\_Jena.pdf](http://www.migrationsfamilien.de/pdf/Studie_Jena.pdf)
- Williams, D. R., Yu, Y., Jackson, J. S., & Anderson, N. B. (1997). Racial differences in physical and mental health: Socioeconomic status, stress, and discrimination. *Journal of Health Psychology*, 2, 335–351.