## Mental Health Across the Spectrum of Sexual Orientation - a Study Among Young Swiss Men



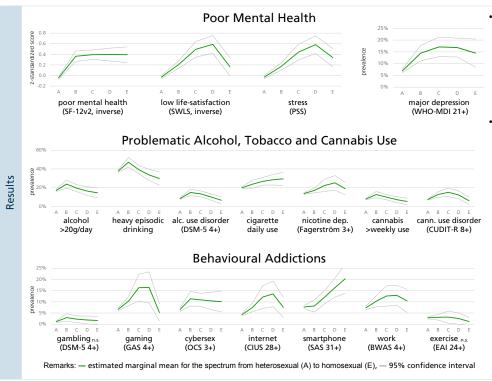
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Introduction

- Compared to heterosexual individuals, non-heterosexual individuals face greater risks for mental health problems such as depression, stress, low life-satisfaction, but also for problematic substance use and behavioural addictions. These differences are often explained by minority-stress theory [1] and biphobia [2] and other factors such as social norms, personality or life-style.
- Although sexologists such as Kinsey [3] initially operationalised sexual orientation as a continuum ranging from being heterosexual to being homosexual, contemporary public health researchers usually aggregate the spectrum (e.g. heterosexual vs non-heterosexual) and thereby potentially blur essential differences between groups. Thus, far less is known about how that risk varies within the non-heterosexual population.
- Additionally, a large part of the existing studies is based on community- or self-selected samples from English-speaking countries and have a risk for sampling bias and/or masking possible cultural differences.

- To estimate the burden (mean-score or prevalence) of poor mental health (low life-satisfaction, stress, depression, problematic substance use and behavioural addictions) across the spectrum of sexual orientation in a large representative sample of young Swiss men.
- Sample: 5,294 young Swiss men (mean age = 25.5, SD = 1.25, representative of 21 of Switzerland's 26 cantons) participating in the third wave of the Cohort Study on Substance Use Risk Factors (C-SURF).
- Measures: Sexual orientation (attraction) was operationalised using the Reduced Kinsey Scale with a focus on the dimension of sexual attraction<sup>[4]</sup>. Participants were asked, whether they felt sexually attracted to "women only" (heterosexual), "women predominantly" (mostly-heterosexual), "both women and men equally" (bisexual), "men predominantly" (mostly-homosexual) and "men only" (homosexual). Mental health problems have been assessed with standardized self-report instruments using recommended cut-offs [6-18]. All criterion variables were coded so that a higher value corresponded to a less benign state.
- Statistical analyses: Fractional polynomial regression models were used to test the associations between the spectrum of sexual orientation and the criterion variables (adjusted for age and linguistic region). Marginal means and 95%-confidence intervals are presented in the results to allow non-heteronormative comparisons between groups.



- · Sexual orientation (attraction):
  - 89.2% heterosexual (A)
  - 6.7% mostly-heterosexual (B)
  - 1.1% bisexual (C)
  - 0.7% mostly-homosexual (D)
  - 2.4% homosexual (E)
- All indicators of poor mental health except gambling and exercise addiction were significantly (p<.05) associated with sexual orientation.

The highest burden of mental health problems were commonly found among mostly-heterosexual, bisexual or mostly-homosexual men, lowest burden among heterosexual men.

With a few exceptions, the curves identified were inverse-J-shaped and neither monotonically increasing nor decreasing.

The estimated curves varied considerably across indicators of poor mental health.

- Considering sexual orientation is important to provide targeted prevention and healthcare.
- Aggregating the spectrum of sexual orientations into two or three distinct groups blurs important internal group differences.
- Outcome-specific explanations beyond minority stress and biphobia are necessary to understand the pathways between sexual orientation and indicators of poor mental health.
- Meyer, I.H. (2003). Psychol Bull, 129(5), 674-697
- Ochs, R. (2011). J Bisex, 11(2-3), 171-175.
  Kinsey, A.C., W.B. Pomeroy, and C.E. Martin (1948). Sexual behavior in the human male. Philadelphia: Saunders.
- rström, K.O., et al. (1992). Ear Nose Throat J, 11-16.
- Bailey, J.M., et al. (2016). Psychol Sci Public Interest, 17(2), 45-101 Knight, J.R., et al. (2002). J Stud Alcohol, 2002. 63(3), 263-270.

n, B. et al. (2010). Int J Methods Psychiatr Res, 19(3), 142-155

- compulsive online sexual behavior. New York: Simon and Schuster [11] Meerkerk, G.-J., et al., (2009). Cyberpsychol Behav, 12(1), 1-6. [12] Haug, S., et al. (2015). J Behav Addict, 4(4), 299-307. [13] Andreassen, C.S., et al. (2012). Scand J Psychol, 53(3), 265-272
- [8] American Psychiatric Association, Diagnostic and statistical manual of mental disorders (DSM-59). 2013: American Psychiatric Pub.
   [9] Lemmens, J.S. et al., (2009). Media Psychol, 12(1), 77-95.
   [10] Cames, P.J. et al. (2009). In the shadows of the net: Breaking free of
- Terry, A. et al. (2004). Addict Res Theory, 12(5), 489–499.
  Bech, P., et al. (2015). BMC Psychiatry, 15(1), 190.
  Ware, J., et al. (2009). User's Manual for the SF-12v2® Health Survey With a Supplement Documenting SF-12® Health Survey, Lincoln: QualityMetric Incorporated
  - Diener, E., et al. (1985), J Pers Assess, 1985, 49(1); p. 71-75.

Conclusions

References etc.

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