SEX AND GENDER REPORTING IN RCTS OF INTERNET AND MOBILE-BASED INTERVENTIONS FOR DEPRESSION AND ANXIETY IN CHRONIC CONDITIONS: A SECONDARY ANALYSIS OF A SYSTEMATIC REVIEW

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BACKGROUND

- Mind-body internet and mobile-based interventions (IMIs) are shown to be scalable and effective strategies to manage mental health symptoms for people living with chronic conditions (1).
- Sex and gender may have implications for mind-body IMI participation, adherence, and efficacy (2).

GUIDELINES

- 1. Non-binary use (>2 categories for sex and gender)
- 2. Appropriate use of categories (sex = male/female/intersex; gender = man/woman/gender-diverse)
- 3. Non-interchangeable use of sex and gender terms (3-4)

OBJECTIVES

- 1. Describe how sex
 and gender were
 reported across
 studies and
 compare the
 studies to guidelinebased classification
 criteria
- 2. Report on
 frequency of
 author
 stratification of
 anxiety and
 depression
 outcomes by
 sex/gender
- 3. Provide a summary of sex/gender considerations related to recruitment and attrition rates.

RESULTS

- 56 studies were included with 7691 participants (62% described as female or women)
- No studies met all 3 sex/gender criteria.
- One study provided stratified mental health scoresby sex/gender
- Eleven (20%) of studies reported sex or gender imbalance as being a potential reason for outcome differences.
 - 3 studies conducted a statistical analysis investigating sex and gender.

Table 3. Sex and Gender Reporting Criteria and Results

Criteria	Met Criteria
Non-binary use (> 2 categories utilized for sex and gender)	2/56 (4%)
Use of appropriate categories (e.g., sex = male/female/intersex, gender = man/woman/gender-diverse)	28/56 (50%)
Non-interchangeable use of sex or gender terms throughout the citation	25/56 (45%)
Did not meet any of the above criteria	21/56 (38%)

METHODS

• Database Search Strategy:

 Comprehensive search of electronic databases (MEDLINE, EMBASE, PSYCInfo, Scopus, CINAHL, and CENTRAL) from inception to March 2023 was completed. Handsearching through included citations was conducted.

• Review Process and Data Analysis:

- Independent reviewers completed title and abstract screening, full-text review, data extraction, and quality assessment.
- Descriptive analysis of sex/gender data according to guidelines outlined above (6-7)

• Inclusion Criteria:

- o Participants individuals aged 18+ living with a chronic physical condition
- Digitally-delivered online mind-body wellness interventions
- Randomized controlled trials (RCTs) published in peer-reviewed journals.
- Reported depression or anxiety using a validated scale

CONCLUSION

- Findings highlight low uptake of sex and gender considerations in the context of mind-body IMIs.
- Results underscore the need to incorporate guideline-based sex and gender terms and concepts, from data collection and analysis to reporting of evidence to inform mindbody IMI development
- Stratified sex and/or gender analyses are encouraged in future studies to assess intervention outcome differences.

Sex Differ. 2021;12(1):62.

1. Johnson E, Corrick S, Isley S, Vandermeer B, Dolgoy N, Bates J, et al. Mind-body internet and mobile-based interventions for depression and anxiety in adults with chronic physical