

# Supplementary material: The operationalisation of sex and gender in quantitative health-related research: a scoping review

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**Supplementary Table S1: Search algorithm**

<b>Search term 1:</b>	((Gender or sex) adj3 (index or indices or score* or measure* or scale* or operational* or survey* or questionnaire* or inventor* or guideline* or tool* or framework* or approach or method*))
<b>Search term 2:</b>	((transgender or transsex* or intersex*) adj3 (index or indices or score* or measure* or scale* or operational* or survey* or questionnaire* or inventor* or guideline* or tool* or framework* or approach or method*))
<b>Search term 3:</b>	((feminin* or masculin*) adj3 (index or indices or score* or measure* or scale* or operational* or survey* or questionnaire* or inventor* or guideline* or tool* or framework* or approach or method*))
<b>Search term 4:</b>	(Androgyny adj3 (index or indices or score* or measure* or scale* or operational* or survey* or questionnaire* or inventor* or guideline* or tool* or framework* or approach or method*))
<b>Search term 5:</b>	(intersection* adj3 (index or indices or score* or measure* or scale* or operational* or survey* or questionnaire* or inventor* or guideline* or tool* or framework* or approach or method*))

Title- and keyword search in Medline, Scopus and Web of Science

All five search terms were connected with an “or”.

Adj3: the two search terms are only allowed to be three words apart from each other in any order

**Supplementary Table S2: Extracted variables and additionally collected information**

Extracted Variable	Definition
Author(s)	Author(s) of the publication
Year	Date the publication was released
Title	Title of the publication
Country	Country the publication was written, determined by the institutional affiliation of the corresponding author
Aim of the Study	Objectives of the study, determined by the information in the publication
Discipline	Discipline/ research field of the publication, determined by the institutional affiliation of the corresponding author
Study population	Characteristics and size of the population(s) with which the described study was conducted
Name of instrument	Name of the instrument that was applied within the publication to assess sex and/or gender
Version of the applied instrument	If applicable the instrument's version was determined by the information in the publication
Aim of the instrument	The aim of the instrument/ the measured sex/gender related content was determined by the information in the publication
Evaluation of the instrument	Findings of validations that were conducted within the publication

## **Additionally collected information**

<b>Collected Information</b>	<b>Definition</b>
Name of instrument	Name of the instrument
Existing versions of instrument	If possible, all existing versions of the instrument were collected
Original author(s)	Author(s) who developed or first validated the instrument
Year of origin	Year the publication describing the development of the instrument was published
Country of origin	Country where the instrument was developed, determined by the institutional affiliation of the corresponding author of the publication where the development was described
Discipline of origin	Discipline/ research field of the publication describing the development of the instrument, determined by the institutional affiliation of the corresponding author
Aim of the scale	The aim of the instrument/ the measured sex/gender related content
Data collection or secondary analysis	We distinguished between those that have to be employed during data collection and those applied for secondary analysis
Population of origin	Population with which the instrument was developed or first validated
Measurement of sex and/or gender	All instruments assessing biological dimensions (e.g., hormonal transition) were categorised as measuring sex, while those focusing on social dimensions (e.g., gender identity) were considered as “gender instruments”. measurements assessing both, social and biological dimensions, were categorised as “sex+gender instruments”
Type and mode	We assessed the type of instrument (e.g., item(s), scale) and mode (e.g., questionnaire, interview)
Different versions of the instrument	We assessed if there are different versions of the instrument for different sex and/or gender groups
Consideration of other social categories	The instruments already contain further differentiations of sex and/or gender by an internal structuring through further social categories

**Supplementary Table S3: Instruments**

ID	Instrument	Author and date of the publication describing the instruments' development	Author and date of publications included within the critical review	
<b>A.1: Assessment of gender and sex</b>				
ID1	Two-step measures	Various sources	Bauer et al., 2017 [1] Cella et al., 2013 [2] Hart et al., 2019 [3] Jones et al., 2019 [4] Lombardi and Banik, 2016 [5] McGuire et al., 2019 [6] Michaels et al., 2017 [7] Nagata et al., 2020 [8] Pickett et al., 2020 [9] Reisner et al., 2014a [10] Reisner et al., 2014b [11] Tamar-Mattis et al., 2018 [12] Tate et al., 2015 [13] Taube and Mussap, 2020 [14] Walls et al., 2019 [15]	
<b>A.1.2: Sex and/or gender traits measure</b>				
ID2	Perceived Masculinity Questionnaire	Chesbro and Fuse, 2001 [16]	Chesbro and Fuse, 2001 [16]	
ID3	Multidimensional sex/gender items	Bauer, 2012 [17]	Bauer et al., 2017 [1]	
ID4	Multidimensional Sex/Gender Measure (MSGM)	Bauer et al., 2017 [1]	Bauer et al., 2017 [1]	
ID5	Gender Preoccupation and Stability Questionnaire (GPSQ)	Hakeem et al., 2016 [18]	Hakeem et al., 2016 [18]	
ID6	Assessment of (trans)gender transition	Jones et al., 2019 [4]	Jones et al., 2019 [4]	
ID7	Assessment of (trans)gender spectrum	Scheim and Bauer, 2015 <sup>†</sup> [19]	Dharma et al., 2019 [20]	
ID8	Gender Identity Scale (GIS)	Ho and Mussap, 2019 [21]	Ho and Mussap, 2019 [21] Ho and Mussap, 2020 [22]	

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**A.2.1.1: Gender assignment by others (not the researchers)**

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<b>ID9</b>	Scale for a close friend to rate participant's masculinity/ femininity	Pletzer et al., 2015 [23]	Gruber et al., 2020 [24]
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**A.2.1.2.1: Conformity to one preassigned gender role**

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<b>ID10</b>	Recalled childhood gender nonconformity	Zucker et al., 2006 [25]	Green et al., 2018 [26] Reisner et al., 2014a [10] Singh et al., 2010 [27] Veale, 2016 [28] Zucker et al., 2006 [25]
<b>ID11</b>	Childhood Gender Nonconformity Scale	Bailey and Oberschneider, 1997 <sup>†</sup> [29]	Skidmore et al., 2006 [30]
<b>ID12</b>	Childhood gender role behaviour (CGRB)	Kachel et al., 2016 [31]	Kachel et al., 2016 [31]
<b>ID13</b>	Auburn Differential Masculinity Inventory	Burk et al., 2004 [32]	Burk et al., 2004 [32]
<b>ID14</b>	Masculine Gender Identity in Females	Blanchard and Freund, 1983 <sup>†</sup> [33]	Lehavot et al., 2011 [34]

<b>ID15</b> Conformity to Masculine Norms Inventory (CMNI)	Mahalik et al., 2003 <sup>†</sup> [35]	Alt et al., 2014 [36] Brabete and Sánchez-López, 2012 [37] Brabete et al., 2013 [38] Burn and Ward, 2005 [39] Easton, 2014 [40] Esteban-Gonzalo et al., 2019 [41] Hammer et al., 2018a [42] Hayley et al., 2017 [43] Levant et al., 2015 [44] Levant et al., 2020 [45] Ludlow and Mahalik, 2001 [46] Magovcevic and Addis, 2008 [47] Murray et al., 2013 [48] Owen, 2011 [49] Parent and Moradi, 2009 [50] Parent and Moradi, 2011 [51] Parent and Smiler, 2013 [52] Rice et al., 2013 [53] Rochelle and Yim, 2015 [54] Steinfeldt et al., 2011 [55] Wide et al., 2011 [56] Wong et al., 2013 [57]
<b>ID16</b> Conformity to Feminine Norms Inventory (CFNI)	Mahalik et al., 2005 <sup>†</sup> [58]	Aparicio-García and Alvarado-Izquierdo, 2019 [59] Brabete and Sánchez-López, 2012 [37] Brabete et al., 2013 [38] Brown et al., 2020 [60] Esteban-Gonzalo et al., 2019 [41] Green et al., 2008 [61] Hayley et al., 2017 [43] Kling et al., 2017 [62] Lyocsa and Lyocsa, 2013 [63] Mahalik et al., 2005 [58] Murray et al., 2013 [48] Parent and Moradi, 2010 [64] Parent and Moradi, 2011 [65]

<b>ID17</b>	Gender Identity/Gender Dysphoria Questionnaire for Adolescents and Adults (GIGDQ-AA)	Deogracias et al., 2007 [66]	Deogracias et al., 2007 [66] Fisher et al., 2017 [67] Galupo and Pulice-Farrow, 2020 [68] George and Stokes, 2018 [69] Haghishat et al., 2019 [70] Hakeem et al., 2016 [18] Schneider et al., 2016 [71] Singh et al., 2010 [27] Taskinen et al., 2016 [72]
<b>ID18</b>	Utrecht Gender Dysphoria Scale (UGDS)	Cohen-Kettenis and Van Goozen, 1997 <sup>†</sup> [73]	Galupo and Pulice-Farrow, 2020 [68] Jürgensen et al., 2013 [74] Kreukels et al., 2018 [75] Schneider et al., 2016 [71] van de Grift et al., 2017 [76]
<b>ID19</b>	Socially assigned gender nonconformity	Wylie et al., 2010 <sup>†</sup> [77]	Reisner et al., 2014a [10] Reisner et al., 2014b [11]

#### A.2.1.2.2: Assignment to one (of several) gender category by researchers

<b>ID20</b>	Bem Sex Role Inventory (BSRI)	Bem, 1974 <sup>†</sup> [78]	Choi et al., 2007 [79] Choi et al., 2008 [80] Choi et al., 2009 [81] Costa et al., 2019 [82] Crosby and Sprock, 2004 [83] Endut et al., 2020 [84] Factor and Rothblum, 2017 [85] Ferrer-Pérez and Bosch-Fiol, 2014 [86] Fisher et al., 2010 [87] Geldenhuys and Bosch, 2020 [88] Ghiasi, 2019 [89] Gómez-Gil et al., 2012 [90] Gruber et al., 2020 [24] Haghishat et al., 2019 [70] Hepp et al., 2005 [91] Hoffman and Borders, 2001 [92] Hunt et al., 2007 [93]
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Johnson et al., 2006 [94]  
Juster and Lupien, 2012 [95]  
Kachel et al., 2016 [31]  
Kamboj et al., 2014 [96]  
Karim et al., 2019 [97]  
Klingemann and Gomez, 2010 [98]  
Kurpisz et al., 2016 [99]  
Lehavot et al., 2011 [34]  
Mahalik et al., 2005 [58]  
March et al., 2013 [100]  
Nielsen et al., 2015 [101]  
Norris et al., 2017 [102]  
O'Kelly, 2011 [103]  
Oswald, 2004 [104]  
Özkan and Lajunen, 2005 [105]  
Pelletier et al., 2015 [106]  
Peng, 2006 [107]  
Peralta et al., 2010 [108]  
Raparelli et al., 2020 [109]  
Reynolds et al., 2016 [110]  
Ritter, 2004 [111]  
Russell and Keel, 2002 [112]  
Sajatovic et al., 2011 [113]  
Stafford et al., 2000 [114]  
Tardif and Van Gijselghem, 2005 [115]  
Taskinen et al., 2016 [72]  
Tate et al., 2013 [116]  
Tate, 2011 [117]  
Vafaei et al., 2014 [118]  
Vafaei et al., 2016 [119]  
van Well et al., 2005 [120]  
Zhang et al., 2001 [121]

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**ID21** Minnesota Multiphasic Personality Inventory  
(MMPI)

Hathaway & McKinley 1937<sup>†</sup>

Taher, 2007 [122]  
Tardif and Van Gijselghem, 2005 [115]

<b>ID22</b>	Minnesota Multiphasic Personality Inventory 2 MMPI-2	Butcher et al. 1989 <sup>‡</sup>	Alavi et al., 2015 [123] Haghigat et al., 2019 [70] Karim et al., 2019 [97] Park et al., 2020 [124] Woo and Oei, 2006 [125] Woo and Oei, 2008 [126]
<b>ID23</b>	Personal Attributes Questionnaire (PAQ)	Helmreich et al. 1974 <sup>‡</sup>	Gruber et al., 2020 [24] Kachel et al., 2016 [31] Langelier et al., 2018 [127] Lehavot et al., 2011 [34] Luyt, 2018 [128] Peralta et al., 2010 [108] van Well et al., 2005 [120]
<b>ID24</b>	Psychological Gender Inventory	Kuczyńska 1992 <sup>‡</sup>	Kowalczyk et al., 2012 [129] Mandal and Kocur, 2013 [130]
<b>ID25</b>	SEX Role Behaviour Scale (SRBS)	(Orlofsky, 1981) <sup>†</sup>	McCreary et al., 2002 [131]
<b>ID26</b>	Positive–Negative Sex-Role Inventory (PN-SRI)	(Berger and Krahé, 2013) <sup>†</sup>	Rydberg Sterner et al., 2018 [132]
<b>ID27</b>	Masculinity - Humanity - Femininity (MHF) scale	Ito 1978 <sup>‡</sup>	Hirokawa et al., 2001 [133]
<b>ID28</b>	Gender Role Inventory	Weaver and Sargent, 2007 [134]	Weaver and Sargent, 2007 [134]
<b>ID29</b>	Singapore Androgyny Inventory	Ward, 2000 [135]	Ward, 2000 [135]
<b>ID30</b>	Indian Gender Role Identity Scale (IGRIS)	Basu, 2010 <sup>†</sup> [136]	Basu et al., 2012 [137]
<b>ID31</b>	Gender-Related Attributes Survey	Gruber et al., 2020 [24]	Gruber et al., 2020 [24]
<b>ID32</b>	Gender role behaviour scale	Athenstaedt, 2000[31]	Kachel et al., 2016
<b>ID33</b>	Assessment of gender related factors	Raparelli et al., 2020 [109]	Raparelli et al., 2020 [109]
<b>A.2.1.2.3: Requirements due to gender role</b>			

<b>ID34</b>	Masculine Gender Role Stress	Eisler and Skidmore, 1987 <sup>†</sup> [138]	Arrindell et al., 2003 [139] Kaźmierczak et al., 2013 [140] Klingemann and Gomez, 2010 [98] Mussap, 2008 [141] Susánszky and Döbrössy, 2019 [142] Swartout et al., 2015 [143] van Well et al., 2005 [120] Wong et al., 2013 [57]
<b>ID35</b>	Feminine Gender Role Stress	Gillespie and Eisler, 1992 <sup>†</sup> [144]	Kaźmierczak et al., 2013 [140] Richmond et al., 2015 [145] van Well et al., 2005 [120]
<b>ID36</b>	Subjective Femininity Stress Scale	Shea et al., 2014 [146]	Shea et al., 2014 [146]
<b>ID37</b>	Subjective Masculinity Stress Scale (SMSS)	Wong et al., 2013 [57]	Wong et al., 2013 [57]
<b>ID38</b>	Gender Role Conflict Scale (GRCS)	O'Neil et al., 1986 <sup>†</sup> [147]	Alt et al., 2014 [36] Hammer et al., 2018b [148] Herdman et al., 2012 [149] Jones and Heesacker, 2012 [150] Komlenac et al., 2018 [151] Lease et al., 2009 [152] Levant et al., 2015 [44] Luyt, 2018 [128] Moradi et al., 2000 [153] Norwalk et al., 2011 [154] Wester et al., 2012 [155] Wong et al., 2013 [57] Zhang et al., 2015 [156]
<b>ID39</b>	Masculinity Inventory Scale (MIS) for Black Men	Mincey et al., 2014 [157]	Mincey et al., 2014 [157]
<b>ID40</b>	Gendered Racial-Ethnic Socialization Scale for Black Women	Brown et al., 2017 [158]	Brown et al., 2017 [158]
<b>ID41</b>	O'Kelly Women's Belief Scales	O'Kelly, 2011 [103]	O'Kelly, 2011 [103]
<b>ID42</b>	Masculine Self-esteem Scale (MSES)	Clark et al., 2003 [159]	Langelier et al., 2018 [127]

<b>ID43</b>	Gender Expression Measure among Sexual Minority Women (GEM-SMW)	Lehavot et al., 2011 [34]	Lehavot et al., 2011 [34]
<b>A.2.2.1: Agreement with statements on conformity with one's own gender role or assessment of the degree of one's own conformity (not category)</b>			
<b>ID44</b>	Transgender Congruence scale	Kozee et al., 2012 [160]	Jones et al., 2019 [4] Kozee et al., 2012 [160] Taube and Mussap, 2020 [14]
<b>ID45</b>	Strength of Transgender Identity Scale	Barr et al., 2016 <sup>†</sup> [161]	Taube and Mussap, 2020 [14]
<b>ID46</b>	Genderqueer Identity (GQI) Scale	McGuire et al., 2019 [6]	McGuire et al., 2019 [6]
<b>ID47</b>	Measure of adult gender typicality	Egan and Perry, 2001 [162]	Tate et al., 2015 [13]
<b>ID48</b>	Gender nonconformity in self-presentation (of gay men)	Reisen et al., 2013 [163]	Reisen et al., 2013 [163]
<b>ID49</b>	Transgender Behaviour Scale	Docter and Fleming, 2001 [164]	Bockting et al., 2020 [165] Docter and Fleming, 2001 [164]
<b>ID50</b>	Traditional Masculinity-Femininity (TMF) scale	Kachel et al., 2016 [31]	Kachel et al., 2016 [31]
<b>ID51</b>	Gender Expression Identity	Lehavot et al., 2011 [34]	Lehavot et al., 2011 [34]
<b>ID52</b>	Bipolar gender identity continuum	Tate, 2011 [117]	Tate, 2011 [117]
<b>ID53</b>	Scale of perceived femininity and masculinity	Taskinen et al., 2016 [72]	Taskinen et al., 2016 [72]
<b>ID54</b>	Sex-Role Identity Scale (SRIS)	Storms, 1979 [166]	Lehavot et al., 2011 [34]
<b>ID55</b>	Measure of Gender Perception	Bejerot and Eriksson, 2014 [167]	Bejerot and Eriksson, 2014 [167]
<b>ID56</b>	Six item sex role scale	Pletzer et al., 2015 <sup>†</sup> [23]	Gruber et al., 2020 [24]
<b>ID57</b>	Self-rated gender scales	Hart et al., 2019 [3]	Hart et al., 2019 [3]
<b>ID58</b>	Reference Group Identity Dependence Scale (RGIDS)	Wade and Gelso, 1998 <sup>†</sup> [168]	Alt et al., 2014 [36]
<b>A.2.2.2: Self-assignment to gender categories</b>			
<b>ID59</b>	Single item assessing transgender-identity	Bockting et al., 2020 [165]	Bockting et al., 2020 [165]

<b>ID60</b> Self-identification as transgender	Information not available	Cicero et al., 2020 [169] Levant et al., 2020 [45]
<b>ID61</b> Three questions form transgender survey	Factor and Rothblum, 2017 [85]	Factor and Rothblum, 2017 [85]
<b>ID62</b> Single item measure assessing gender identity	Various sources	Bauerband et al., 2019 [170] Bazzi et al., 2015 [171] Christian et al., 2018 [172] Fraser et al., 2020 [173] George and Stokes, 2018 [69] Ho and Mussap, 2020 [22] Kozee et al., 2012 [160] Kreukels et al., 2018 [75] Pickett et al., 2020 [9]
<b>A.2.3: No further classification possible</b>		
<b>ID63</b> Measurement of Masculinity-Femininity [MF]	Information not available	Ewalds-Kvist et al., 2003 [174]
<b>ID64</b> Questionnaire of Gender Identity	Information not available	Jürgensen et al., 2013 [74]
<b>A.3: Assessment of Sex</b>		
<b>A.3.1: Measurement of physical characteristics/ diagnoses</b>		
<b>ID65</b> DNA analysis	Various sources	Ballering et al., 2020 [175]
<b>ID66</b> Examination of internal and external genital organs	Various sources	Ballering et al., 2020 [175]
<b>ID67</b> Androgyny Score	Tanner, 1951 <sup>†</sup> [176]	Dubey, 2015 [177] Mishra et al., 2011 [178]
<b>ID68</b> Assessment of karyotype and androgen effect	Various sources	(Kreukels et al., 2018)
<b>ID69</b> Single item measure about DSD condition	The GenIUSS Group., 2014 <sup>†</sup> [179]	Tamar-Mattis et al., 2018 [12]
<b>A.3.2: Assessment by researchers</b>		
<b>ID70</b> Physical Appearance Scale	Smith et al., 2005 <sup>†</sup> [180]	van de Grift et al., 2017 [76]
<b>A.3.3: Status of sex reassignment therapy</b>		

<b>ID71</b>	Status of gender affirming hormone therapy	Various sources	Suppikitjanusant et al., 2020 [181]
<b>ID72</b>	Status of sex reassignment surgery	Various sources	(Cella et al., 2013)
<b>B: Secondary analysis</b>			
<b>ID73</b>	Gender Index	Ballering et al., 2020 [175]	Ballering et al., 2020 [175]
<b>ID74</b>	Gender Index	Norris et al., 2017 [102]	Norris et al., 2017 [102]
<b>ID75</b>	GENDER Index	Lacasse et al., 2020 [182]	Lacasse et al., 2020 [182]
<b>ID76</b>	Gender Score	Pelletier et al., 2015 [106]	Pelletier et al., 2015 [106]
<b>ID77</b>	Labour Force Gender Index (LFGI)	Smith and Koehoorn, 2016 [183]	Smith and Koehoorn, 2016 [183]

Subtitles according to categorization in figure 2; <sup>a</sup>publications that were additionally researched but were not part of the original search; <sup>b</sup>publications of which full texts could not be retrieved

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Supplementary Figure S1: Number of Applications

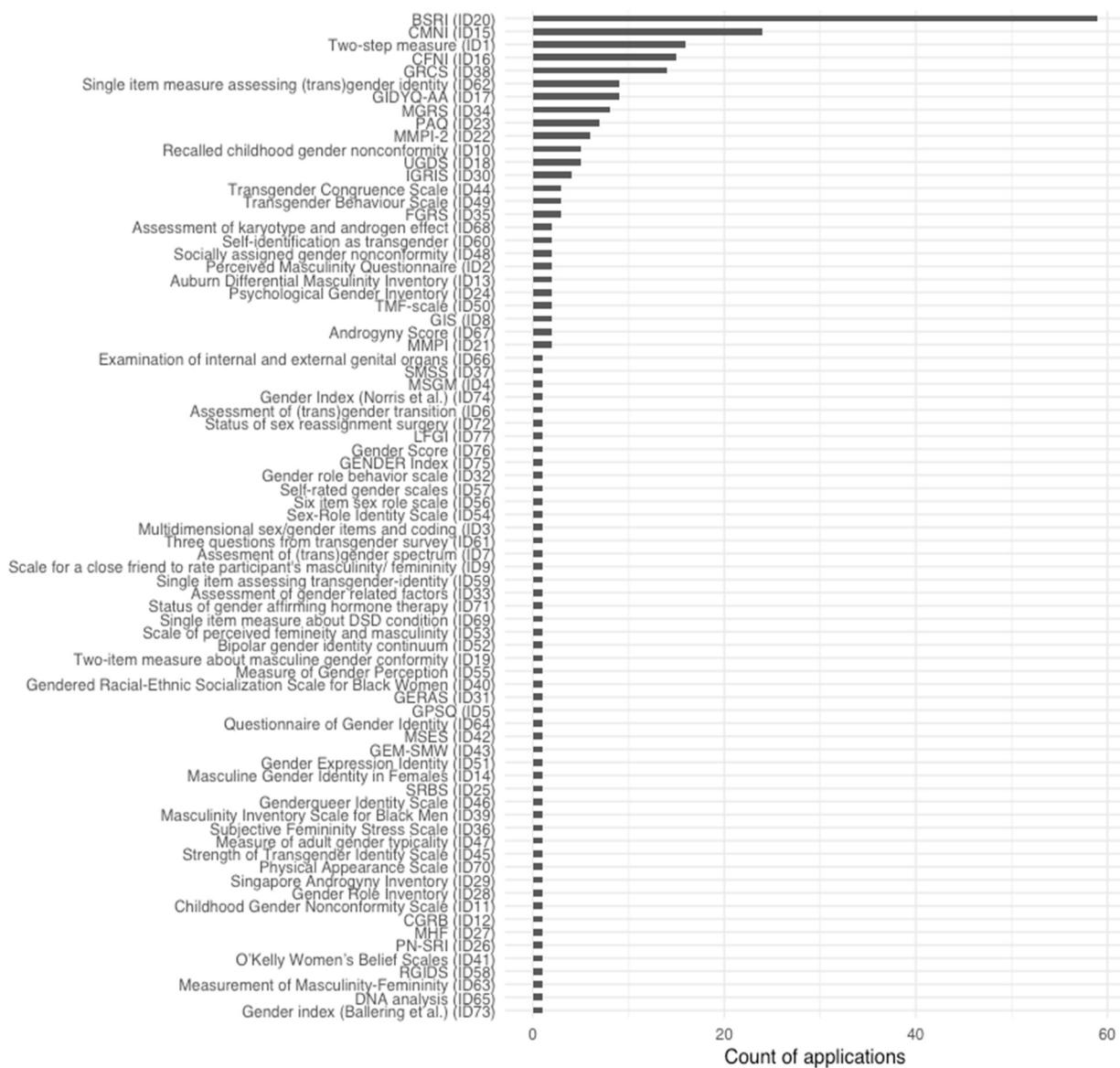


Figure S1: Number of Applications per Tool (N = 77)

Supplementary Figure S2: Population size

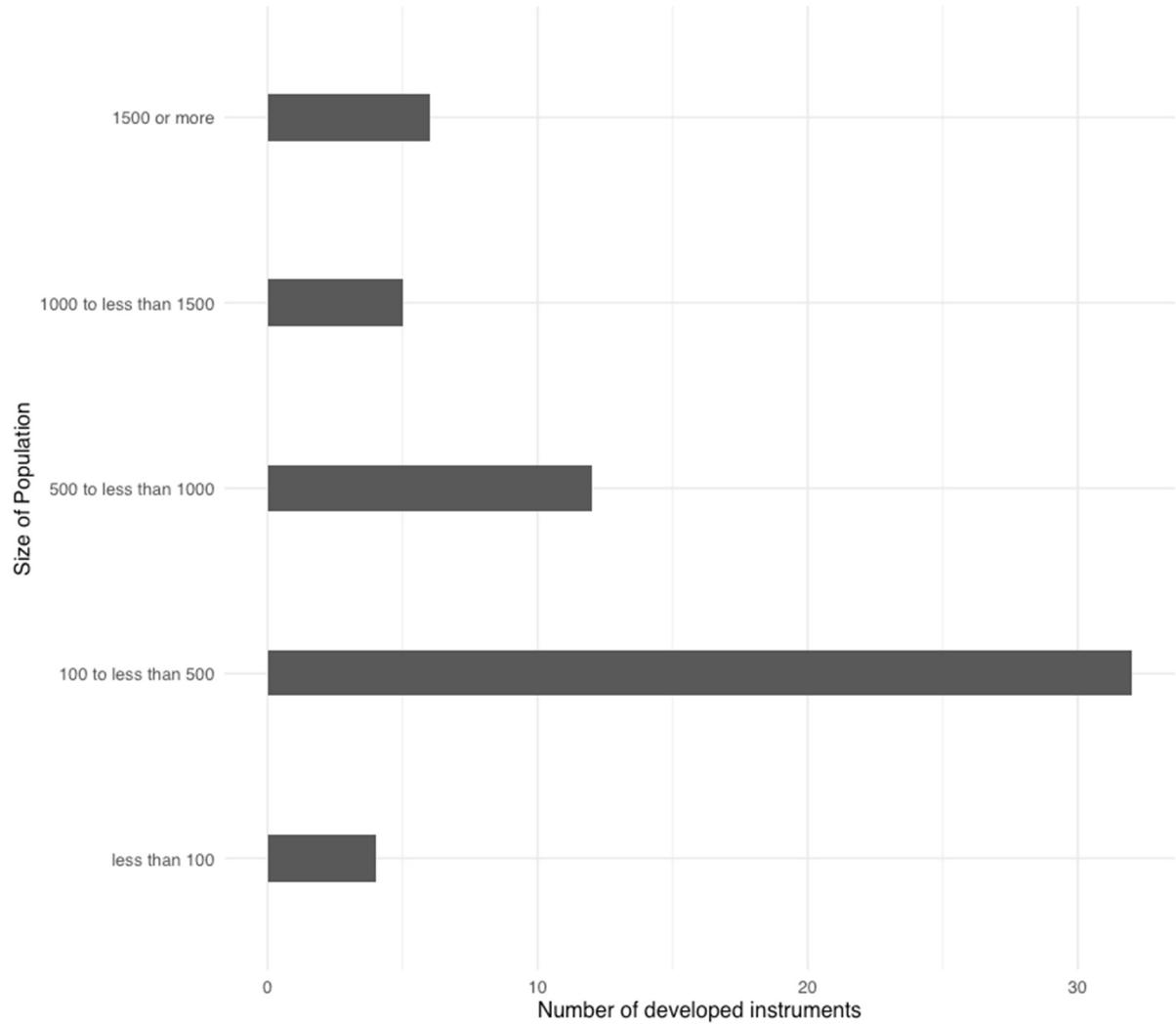
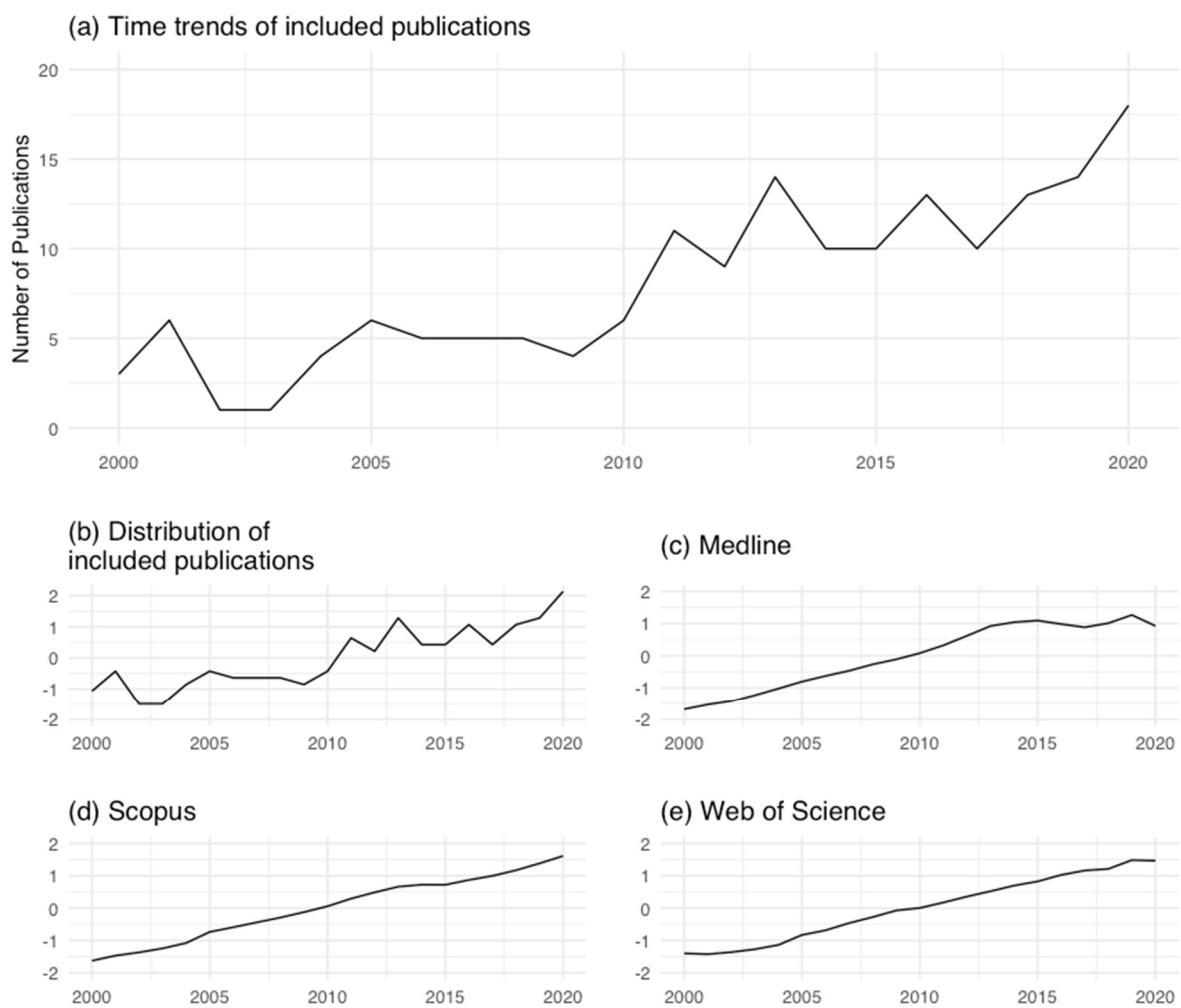


Figure S2: Size of population the instruments were developed with ( $n = 59$ )



Supplementary Figure S3: Temporal trends of the included publications

Figure S3: a) Time Trend of included publications from January 2000 to August 2020. b) Standardised distribution of the number of publications included within this review from January 2000 to August 2020. c) Standardised distribution of the number of publications contained in Medline (via Ovid) from January 2000 to August 2020. d) Standardised distribution of the number of publications contained in Scopus from January 2000 to August 2020. e) Standardised distribution of the number of publications contained in Web of Science from January 2000 to August 2020.

**Supplementary Table S4: Categorisation of the tools according to their underlying concepts of sex and/or gender**

ID	Instrument
<b>(I) Gender, sex or sex and/or gender is recorded as male/masculine or female/feminine only</b>	
<b>(I.1) Instruments to define the belonging to a certain sex and/or gender – either self-definition or by others</b>	
<b>(I.1.1) Sex/gender is conceptualised as distinct</b>	
ID21	Minnesota Multiphasic Personality Inventory (MMPI)
ID52	Bipolar gender identity continuum
ID53	Scale of perceived femininity and masculinity
ID73	Gender Index
ID74	Gender Index
ID75	GENDER Index
ID76	Gender Score
ID77	Labour Force Gender Index (LFGI)
<b>(I.1.2) Sex and/or gender is conceptualised as multiple</b>	
ID9	Scale for a close friend to rate participant's masculinity/ femininity
ID23	Personal Attributes Questionnaire (PAQ)
ID25	Sex Role Behaviour Scale (SRBS)
ID31	Gender-Related Attributes Survey
ID32	Gender role behaviour scale
ID50	Traditional Masculinity-Femininity (TMF) scale
ID54	Sex-Role Identity Scale (SRIS)
ID56	Six item sex role scale
ID57	Self-rated gender scales
ID70	Physical Appearance Scale
<b>(I.1.2.1) Derivation of further categories such as androgynous or indifferent</b>	
ID20	Bem Sex Role Inventory (BSRI)
ID22	Minnesota Multiphasic Personality Inventory 2 (MMPI-2)
ID24	Psychological Gender Inventory
ID26	Positive-Negative Sex-Role Inventory (PN-SRI)
ID27	Masculinity - Humanity - Femininity (MHF) scale
ID29	Singapore Androgyny Inventory
ID30	Indian Gender Role Identity Scale (IGRIS)
ID67	Androgyny Score

**(I.2) Instruments to measure conformity, grades of belonging or consequences of belonging to a certain sex and/or gender**

**(I.2.1) Level of belonging/conformity**

- ID2 Perceived Masculinity Questionnaire
- ID10 Recalled childhood gender nonconformity
- ID11 Childhood Gender Nonconformity Scale
- ID12 Childhood gender role behaviour (CGRB)
- ID13 Auburn Differential Masculinity Inventory
- ID14 Masculine Gender Identity in Females
- ID15 Conformity to Masculine Norms Inventory (CMNI)
- ID16 Conformity to Feminine Norms Inventory (CFNI)
- ID19 Socially assigned gender nonconformity
- ID39 Masculinity Inventory Scale (MIS) for Black Men
- ID43 Gender Expression Measure among Sexual Minority Women (GEM-SMW)
- ID47 Measure of adult gender typicality
- ID48 Gender nonconformity in self-presentation (of gay men)
- ID58 Reference Group Identity Dependence Scale (RGIDS)

**(I.2.2) Consequences of the belonging to a certain gender**

- ID34 Masculine Gender Role Stress
- ID35 Feminine Gender Role Stress
- ID36 Subjective Femininity Stress Scale
- ID37 Subjective Masculinity Stress Scale (SMSS)
- ID38 Gender Role Conflict Scale (GRCS)
- ID40 Gendered Racial-Ethnic Socialization Scale for Black Women
- ID41 O'Kelly Women's Belief Scales
- ID42 Masculine Self-esteem Scale (MSES)

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**II. Gender, sex or sex and/or gender is recorded in further/other categories than male/masculine or female/feminine**

**(II.1) Instruments to define the belonging to a certain sex and/or gender – either self-definition or by others**

- ID1 Two-step measures
- ID3 Multidimensional sex/gender items
- ID4 Multidimensional Sex/Gender Measure (MSGM)
- ID8 Gender Identity Scale (GIS)
- ID17 Gender Identity/Gender Dysphoria Questionnaire for Adolescents and Adults (GIGDQ-AA)
- ID18 Utrecht Gender Dysphoria Scale (UGDS)

- ID49 Transgender Behaviour Scale
- ID59 Single item assessing transgender-identity
- ID60 Self-identification as transgender
- ID61 Three questions from transgender survey
- ID62 Single item measure assessing gender identity
- ID65 DNA analysis
- ID66 Examination of internal and external genital organs
- ID68 Assessment of karyotype and androgen effect
- ID69 Single item measure about DSD condition

**(II.2) Instruments to measure conformity or grade of belonging to a certain sex and/or gender**

- ID5 Gender Preoccupation and Stability Questionnaire (GPSQ)
- ID6 Assessment of (trans)gender transition
- ID7 Assessment of (trans)gender spectrum
- ID44 Transgender Congruence Scale
- ID45 Strength of Transgender Identity Scale
- ID51 Gender Expression Identity
- ID71 Status of gender affirming hormone therapy
- ID72 Sex reassignment surgery

**(II.3) Mixed format – instruments that define the belonging to a sex and/or gender category and measure the grade of belonging**

- ID46 Genderqueer Identity (GQI) Scale
- ID55 Measure of Gender Perception

**"unclear"**

- ID28 Gender role inventory
- ID33 Assessment of gender related factors

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Since no further information are available the instruments ID63 and ID64 are excluded from this categorisation.

**Supplementary Figure S4: Consideration of further social categories**

Developed instruments by discipline

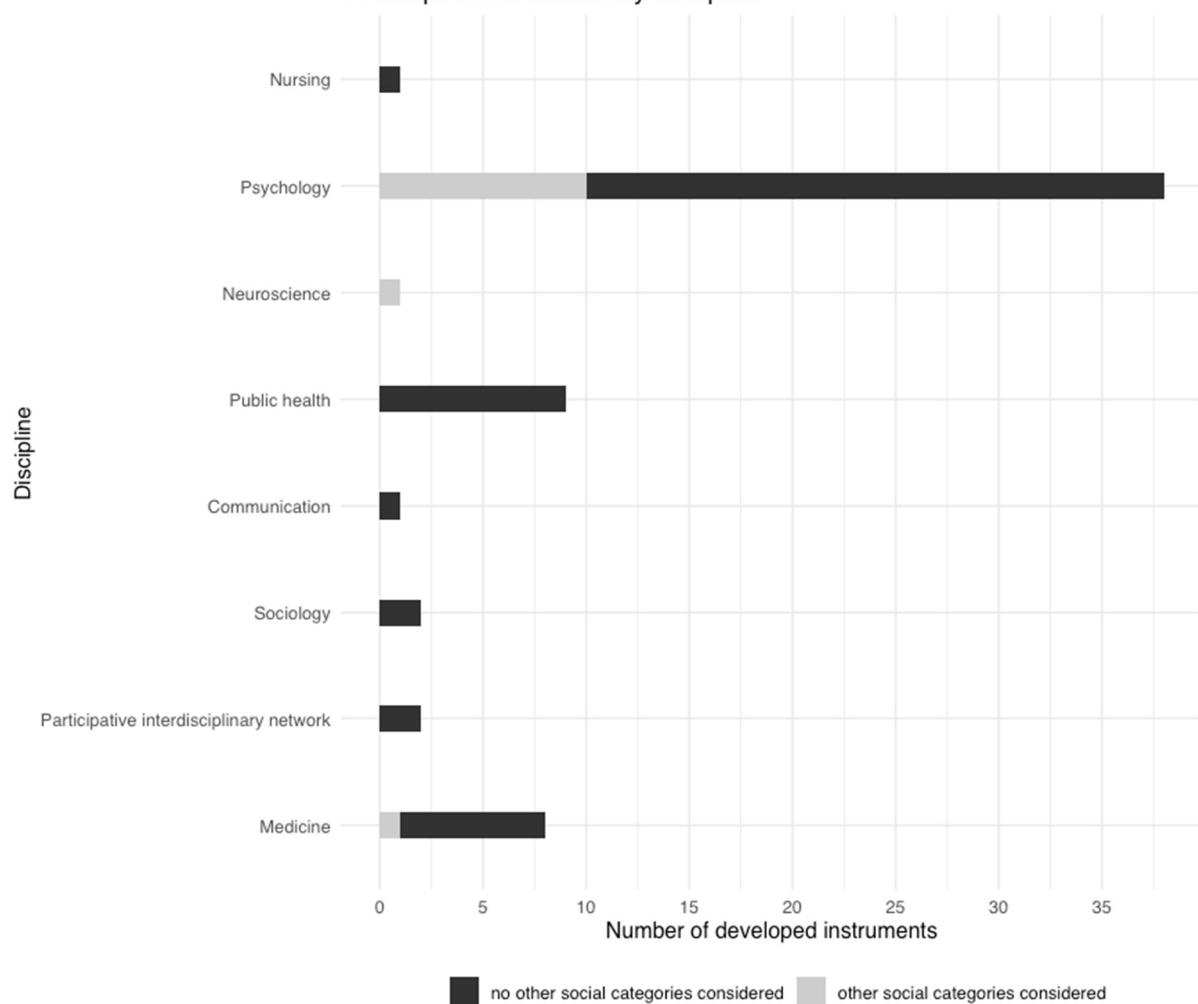


Figure S4: Number of instruments developed that take other social categories into account, by discipline (N = 62)