$\frac{1}{2}$	Gender equality in science, medicine, and global health: where are we at and why does it matter?				
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33	Abstract				
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35	The purpose of this review is to provide	e evidence for why gender equality in science, medicine and			
36	global health matters for health and he	alth-related outcomes. We present a high-level synthesis of			
37	global gender data, summarise progres	s towards gender equality in science, medicine and global			
38	health review the evidence for why ge	nder equality in these fields matters in terms of health and			
20	nearth, review the evidence for why gender equality in these fields matters in terms of health and				
39 40	social outcomes, and reflect on strategi	les to promote change. Notwithstanding the evolving			
40	landscape of global gender data, the overall pattern of gender equality for women science, medicine				
41	and global health is one of mixed gains and persistent challenges. Gender equality in science,				
42	medicine and global health has the potential to lead to significant health, social, and economic gains.				
43	The current gender reckoning in our field highlights both missed and future opportunities, the need				
44	to situate gender analyses in the context of political influences and structural inequalities, and to				
45	draw upon contemporary social movements to advance the field. With the evolving landscape, we				
46	are in the position to demand more fro	m the evidence, to innovate beyond current discourses, and			
47	to realise true gender equality for everyone, everywhere.				
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- 50 Introduction
- 51

52 We are in the midst of a gender reckoning in the fields of science, medicine, and global health.¹ Four

- 53 contemporary social movements have helped shape the global gender and health landscape: online
- 54 movements against violence, including #MeToo and #NiUnaMenos; intersectional feminism; the
- 55 evolving recognition of men and masculinities; and, the global trans rights movement. These
- 56 movements are transforming the health sciences, forcing us to grapple with "...questions of agency,
- 57 vulnerability, and the dynamic and changing realities of gendered power relations."² We are living
- 58 through transformative and challenging times.
- 59
- 60 It is in this context that we review the evidence for why gender equality matters in science, medicine
- 61 and global health. The purpose of this review is to provide a high-level synthesis of global gender
- 62 data, summarise progress towards gender equality in science, medicine and global health, and
- 63 review the evidence for why gender equality matters in terms of health and social outcomes. We will
- 64 situate the current #LancetWomen theme issue in the context of global movements transforming
- 65 our field, drawing inspiration from trans, feminist, and intersectional scholarship.
- 66

67 Gender, health and society

- 68
- 69 Restrictive gender norms affect everybody. As a shared determinant³ of health for men, women, 70 boys, girls and gender diverse people, gender inequalities drive large-scale excess in mortality and 71 morbidity globally.^{4,5} Gender inequality is transformed into health risk through discriminatory values, 72 norms, beliefs and practices, differential exposures and vulnerabilities to disease, disability and 73 injuries, biases in health systems, and biases in health research.⁴ Gender discrimination at any of 74 these levels detrimentally impacts health and social outcomes.^{4,5} For example, interpersonal 75 violence, including violence against women, is influenced by harmful gender norms and broader 76 systems of oppression;^{6,7} confronting these gendered structures is relevant to all people. More 77 insidiously, gender inequalities contribute to increased levels of stress and anxiety: among women 78 through their socially-prescribed role as caregivers,⁸ among men through their socially-prescribed 79 role as breadwinners,⁹ and among trans people where non-conformity to gender norms are often 80 socially penalised.^{10,11} Table 1 provides a summary of some key literature which outlines the
- $81 \qquad {\rm relationship\ between\ gender\ and\ health}.$
- 82

Gender equality is a human right.^{12,13} It is essential "to achieve peaceful societies, with full human 83 84 potential and sustainable development."¹⁴ After more than a century of feminist advocacy,^{14,15} 40 years of international discourses on gender in development,^{2,17} and a mounting body of evidence,^{1,18} 85 86 gender equality is recognised as one of the most significant determinants of health and economic development.^{4,19,20} Despite this recognition, gender equality remains a complex issue in health and 87 88 development. For one, the term gender is a "widely used and often misunderstood term. It is sometimes conflated with sex or used to refer only to women,"²¹ and also categorically excludes 89 90 trans and non-gender-binary people.^{18,19} Here, we use the Global Health 5050 definition of gender¹⁹ 91 and the United Nations (UN) definition of gender equality²² (Panel 1). While gender equality has 92 been positioned as key to achieving the Sustainable Development Goals,^{23,24} there is "a distinct lack 93 of clarity about how such a goal should be defined or about how it might be achieved."²⁵ Gender is

94 an inherently political issue that "is missing from, misunderstood in, and only sometimes

- 95 mainstreamed into global health policies and programmes."¹⁸ There has been sluggish progress
- 96 towards international gender equality targets,^{18,19} and conservative campaigns against 'gender
- 97 ideology' threaten to undermine progress.^{26,27}
- 98

99 The global state of gender equality data

100

101 Gender data matter for women in science, medicine, and global health: to both monitor progress 102 and reflect critically on research processes and outputs. A range of gender data has emerged in the 103 last two decades.²⁸⁻³¹ The Organisation for Economic Co-Operation and Development (OECD) reports 104 aggregate gender data on employment, education, entrepreneurship, health development, and 105 governance.³² The World Bank's Gender Data Portal contains over 500 indicators on agency, 106 socioeconomic context, economic opportunities, education, health, public life, and decision-107 making.³³ The UN Statistics Division's Minimum Set of Gender Indicators contain 52 quantitative and 108 11 gualitative indicators over the domains of economic structures and access to resources, 109 education, health, public life and decision-making, and human rights.³⁴ In addition, there are

- 110 numerous international gender indexes, reflecting composite data over various aspects of gender,
- 111 health and development.³⁵⁻³⁷
- 112
- 113 Despite the proliferation of indicators, methodological and conceptual shortfalls significantly limit 114 the use of gender data.^{29,35,36,39,40} Methodological limitations include unequal country coverage, lack
- of international standards for comparability, insufficient complexity of indicators across gender
- 116 domains, and insufficient granularity for disaggregation.⁴¹⁻⁴³ Conceptual shortfalls include
- 117 assumptions of heteronormativity, exclusion of non-gender-binary persons and men, lack of
- 118 meaningful information about within-household gender dynamics, and inadequate quantification of 119 unpaid and domestic labour.^{18,44-46} Initiatives such as Data2X and Equal Measures 2030 aim to fill
- unpaid and domestic labour.^{18,44-46} Initiatives such as Data2X and Equal Measures 2030 aim to fill
 these gaps and transform gender data collection systems through conceptualising and collecting
- 121 new data, and reorganizing existing data so it is more actionable by policy makers.^{42,43} The Gender
- 122 Equitable Men Scale (GEMS) offers survey tools that explore attitudes to gender norms, violence,
- 123 masculinities, and sexual health.⁴⁷ With massive national epidemiological and demographic
- 124 transitions combined with the growing recognition of sub-national and intra-urban heterogeneity
- 125 and the need for intersectional approaches to the quantification of relative advantage or
- 126 disadvantage⁴⁸ gender metrics are moving towards individual-level approaches.^{49,50}
- 127
- 128 Notwithstanding the changing landscape of global gender data, the overall pattern of gender
- 129 equality for women science, medicine and global health is one of mixed gains and persistent
- 130 challenges.
- 131
- 132 Gender equality in science, medicine and global health
- 133
- 134 Progress
- 135
- 136 In science, the "knowledge gender divide continues to exist in all countries, even those which have a
- 137 highly-developed knowledge society."⁵¹ UNESCO Women in Science data demonstrate that less than
- 138 $\,$ 30% of the world's researchers are women, comprising only 19% in South and West Asia, 23% in East $\,$

Asia and the Pacific, 30% in Sub-Saharan Africa, 32% in North America and Western Europe and 45%
in Latin America⁵² (Figure 1). The proportion of women researchers is increasing worldwide (Figure
2), although they publish fewer research papers on average than men and are less likely to
collaborate internationally.⁵³ In Europe and North America, men are still more likely to graduate

- 143 from the natural sciences, mathematics, and information and communication technologies, and to
- 144 translate higher degrees into employment.⁵⁴ Women are often 'squeezed out' of science careers by
- structural barriers: SAGE (Science in Australia Gender Equity), the American Association of University
- 146 Women (AAUW), and the European Commission (She Figures) report that gender inequality is a
- 147 function of systemic factors unrelated to ability, including bias, organisational constraints,
- 148 organisational culture, and differential effects of work and family demands.⁵⁵⁻⁵⁷ Analysis of
- 149 Programme for International Student Assessment (PISA) data found, paradoxically, that countries
- $150\,$ $\,$ with high levels of gender equality have some of the largest STEM gaps in secondary and tertiary $\,$
- 151 education.58
- 152

153 In health, issues of occupational segregation, wage and working conditions, and leadership

- 154 disparities remain pronounced. The health workforce is feminising, and women's participation is
- 155 consistently higher than in science or the general workforce (Figures 1 and 2), but this is occurring
- 156 unequally: approximately 75% of the global health workforce is female, yet women
- 157 disproportionately represent lower cadres of health workers.⁵⁹ In medicine, there are persistent
- 158 imbalances in specialist training participation with women remaining the minority in surgical
- 159 specialties⁶⁰ and gender pay gaps across all specialties, which are not wholly explained by seniority,
- 160 career breaks, and part-time work.⁶¹ Further, wage conditions may deteriorate as more women join
- 161 the ranks of health professions.⁶² The High-Level Commission on Health Employment and Economic
- 162 Growth recognised that working conditions of health workers were affected by poor wages and
- benefits, the absence of social protection and unsafe working conditions.⁶³ Although women
 comprise the majority of the health workforce around the world, they hold a small fraction of
- 165 leadership positions.^{1,64} The WHO Global Health Workforce Network Gender Equity Hub recognises
- 166 that, across the health and social care workforce, women are significantly under-represented in
- 167 management, leadership and governance.⁶⁵
- 168

169 Global Health is defined as "collaborative trans-national research and action for promoting health 170 for all,"66 and encompasses international governance, research, and health financing. Despite this 171 inclusive definition, global health as a field remains gender unequal or gender-blind. For example, 172 among 140 global health organizations, only 40% mention gender in their governance documents.¹⁹ 173 Only 20% of global health organisations had gender parity on their governing boards,¹⁹ and only two 174 UN Agencies related to health have women heads.⁶⁴ Despite recent commitment by The WHO's 175 Director General to gender equality, only a quarter of Member State chief delegates to the World Health Assembly or Ministers of Health are women.⁶⁷ Gender has only recently been explicitly 176 177 recognised by philanthropic bodies and research funders, with organisational commitments to 178 gender equality from the Bill and Melinda Gates Foundation, Caterpillar Foundation, Ford 179 Foundation, National Institutes of Health, Rockefeller Foundation, and Open Society Foundations.¹⁹ 180 In health financing, gender is insufficiently addressed, despite the purported emphasis placed on 181 equity by proponents of universal health coverage.⁶⁸

183 Limits

184 Gender biases in the health sector "...undermine inclusive economic growth, full employment, 185 decent work and the achievement of gender equality. They also create inefficiencies in health 186 systems by limiting the productivity, distribution, motivation and retention of female workers, who 187 constitute the majority of the health workforce."⁶⁹ Gender discrimination is linked to low morale, 188 low self-esteem, and lower productivity.^{65,70} In many countries, women lack access to productive 189 resources – including land, finance, technology and education – necessary to support engagement in 190 science.⁷¹ Research from East Africa suggests that women scientists face higher burdens of unpaid work and gender violence, with serious sequelae for mental and physical health. 70-74 Systematic 191 192 gender inequality leads to health workforce maldistribution, and inefficiencies in or barriers to 193 healthcare for those who need it most.^{70,75} Unless gender – and its intersections with other social 194 stratifiers - is explicitly recognised, progress towards UHC may fail to address or even exacerbate

195 gender inequality.⁶⁸

196 Although men face fewer barriers to career progression in science, medicine and global health, they

197 also lack systematic support for transforming existing workplace gender structures. Resources such

as Men Advocating Real Change (MARC, by Catalyst) exist to support gender equality initiatives,

199 although there are few targeted policies supporting men as carers or other policies supporting men

200 in transforming workplace gender cultures.⁷⁶ An EU report found that, despite positive effects of

- 201 paternity leave on economic, social and demographic outcomes, uptake of leave remained low, due
- to poor compensation, lack of affordable childcare, inflexibility of leave arrangements, gender norms
 and cultural expectations.⁷⁷
- 204

There is a paucity of information available about trans persons in the science, medicine and global health workforce. However, a recent study of employment outcomes, using the American National Transgender Discrimination Survey, found they experience greater discrimination in hiring, and differential treatment once employed.⁷⁸ Research on the health burden and needs of gender minorities is increasingly available, but trans issues remain marginalized: for example, much data remains blind to trans identities due to the absence of survey items with which to identify as nongender-binary.⁷⁹

212

213 Why gender matters: opportunities in science, medicine and global health

214

215 Gender equality in science, medicine and global health has the potential to lead to significant health, 216 social, and economic gains. There is widespread consensus that gender equality in the community 217 promotes economic growth, lowers fertility, reduces child mortality, and improves nutrition.^{75,80,81} 218 There is also evidence, primarily from business and management sectors, that gender-diverse workplaces have improved productivity, innovation, decision-making, and employee retention and 219 220 satisfaction.⁸² Gender-diverse institutions are more likely to outperform those that are not gender-221 diverse.^{83,84} If productivity and innovation can be improved by increasing gender diversity, then 222 there is an ethical imperative to do so. Any organisation that is not gender diverse is failing to access 223 and leverage talent.

- 225 A benefit of diversity in corporate settings is that the workforce better understands the diverse
- 226 consumer population can therefore create products and services tailored to clients, leading to
- increased returns.⁸⁵ The same may be true in science, medicine and global health: a more diverse
- research team may develop more nuanced and relevant research questions, resulting in research
- that is applicable (and beneficial) to a broader population. In science research, ethnic diversity of
- authors is associated with increased impact and citations.⁸⁶ A review article exploring the culture in
- 231 medicine toward sexual and gender minorities notes that increasing visibility of LGBT and gender-
- diverse healthcare providers may promote a welcoming environment for staff and patients.⁸⁷ In
- these ways, gender transformation in health and science sectors has the potential to contribute
- significantly to gains in gender equality in the wider community.^{69,70,88}
- 235
- 236 A gender diverse medical workforce may also translate into improved patient outcomes. There is 237 evidence that different patients prefer to be treated by a certain gendered doctor,⁸⁹ which is 238 important for equity of access to care. A study investigating mortality of women patients with acute 239 myocardial infarction found higher mortality rates of women treated by male doctors.⁹⁰ 240 Interestingly, the effect was attenuated if male doctors had higher exposure to female patients and 241 physician colleagues.⁹⁰ There is also emerging evidence of beneficial differences in the way women 242 doctors practice, leading to lower patient morbidity and mortality.^{91,92} For example, in a matched 243 cohort study performed in Canada, patients treated by female surgeons had a modest but 244 statistically significant decrease in a composite outcome of 30-day mortality, complications, and 245 readmission.⁹¹ Similarly, Tsugawa and colleagues found that hospitalised patients treated by women 246 internists had lower mortality and readmissions compared with those cared for by male doctors.⁹² A 247 Canadian study found that patients of women primary care physicians had more consistently 248 received recommended health screening, and had fewer emergency department visits than those 249 treated by male primary care physicians.⁹³ The authors of the papers conclude that gender is a 250 marker of other behaviours that lead to better outcomes, pointing to evidence that women doctors 251 tend to follow guidelines more closely, spend more time with patients, and may have more effective 252 communication skills.⁹³ In one meta-analysis of the gender effect in medical communication,⁹⁴ 253 women primary care physicians had a more patient-centred communication style however there 254 was no gender difference in the quality of information conveyed to patients, and male obstetrics and 255 gynaecology specialists scored higher for emotionally-focused talk. Other gender differences in the 256 medical workforce have been described, from simulated surgical skills tasks to mentorship.⁹⁵ While 257 gender differences are apparent, it is important not to assume these are inherent and 258 unchangeable. Instead, we should investigate the drivers of these observed differences to elucidate 259 the positive behaviours that lead to improved outcomes, to optimise training and development for 260 the entire science and health workforce. 261 262 Promoting gender equality in science, medicine, and global health 263
- 264 Specific strategies exist to promote women and girls in health and science. The WHO has catalogued
- a range of tools to assist with gender analysis in health,⁹⁶ and outlines gender transformative
- 266 strategies for programmes and policies.⁹⁷ The Commission on the Status of Women 55th Session
- adopted a report which recognised education and training in STEM, and the 2013 UN General
- 268 Assembly adopted a resolution on science, technology and innovation for development, recognising

- the need for full and equal access by women and girls. The African Union's Science, Technology and
- 270 Innovation Strategy for Africa 2024 recognises inclusion of women and youth in the industry,^{98,99} the
- 271 East African Community adopted a framework to promote gender in science, technology and
- 272 innovation, and the Southern Africa Development Community (SADC)'s Gender Policy supports equal
- 273 access to science education.⁹⁸ Policies such as these are supported by international advocacy
- 274 networks such as Gender in Science, Innovation, Technology and Engineering¹⁰⁰ and the
- 275 Organisation for Women in Science for the Developing World.¹⁰¹
- 276

277 However, these policies have not been sufficient to bring about the widespread social changes 278 needed to ensure gender equality in science, medicine and global health. Social movements, such as 279 the global trans rights movement and online movements against violence, contain important lessons 280 for current efforts for women within science, medicine and global health. Social movements work by 281 politicising issues, calling for the rights of marginalised or less powerful groups in ways that 282 transform power relations and create enabling environments for demands to be heard.¹⁰² At the 283 turn of the 20th century, women physicians were very much part of the women's health movement, 284 which led to a groundswell of changes in the exclusionary practices of medical schools.¹⁰³ However, 285 as women became more integrated into medicine, the focus on feminist principles faded despite the 286 continuation of widespread inequalities in specialisation, pay and career advancement.¹⁰³ Social 287 movements played a critical role in drawing attention to the voices of women and marginalized 288 groups in global health, particularly in HIV and AIDS.¹⁰⁴ For instance, the Treatment Action Campaign 289 mobilised thousands of unemployed black women, medical professionals, students and academics 290 reaching across boundaries of race, education and class to successfully transform South Africa's 291 HIV/AIDS policy.¹⁰² In science, social collectives and networks play an important role in encouraging 292 women to enter and remain in their careers¹⁰⁵ and may be more important than more individual approaches such as mentorship or 'girl-friendly' curriculums.¹⁰⁶ Taken as a whole, this literature 293 294 highlights the critical importance of collective networks in bringing about fundamental changes in 295 gender inequalities, and the urgent need for feminist action to transform the position of women in 296 science, medicine and global health.

297

298 Conclusion

299

Our review has highlighted the evidence for why gender equality matters in terms of health and health-related outcomes, positioning the #LancetWomen movement within a discussion of progress towards gender equality worldwide. We found that better gender data are available, women are making progress but remain considerably disadvantaged, men's roles are expanding but are limited by restrictive gender norms, and information on the trans community is limited. Despite this

- 305 progress, conceptual and methodological shortfalls in research including outdated
- 306 conceptualisations of gender and gender inequalities persist, meaning we only understand part of
 307 a much more complex whole.
- 308
- 309 Gender equality mattes for health. It is one of the most significant drivers of health and health
- 310 inequalities of our time. The current gender reckoning in science, medicine and global health
- 311 highlights both missed and future opportunities, the need to situate gender analyses in the context
- 312 of political influences and structural inequalities, and to draw upon contemporary social movements

- 313 to advance the field. Beyond quantitative gender equality, we must strive for a cultural
- 314 transformation that allows for the inclusion of values of transparency, honesty, fairness, and justice.
- 315 With the evolving landscape, we are in the position to demand more from the evidence, to innovate
- 316 beyond current discourses, and to realise true gender equality for everyone, everywhere. Achieving
- 317 gender equality is not simply instrumental for health and development; its impact has wide-ranging
- 318 benefits and is a matter of fairness and social justice for everyone.
- 319
- 320

321 **Author contributions** 322

323 All authors contributed equally to the conceptualisation of the study. GS, KW, MJ, and JM performed

- 324 the literature search. CC and AM contributed to insights on masculinities and transgender
- 325 communities, while AE and AO contributed country-specific insights and supporting case-studies. GS drafted the article and collated the figures, with inputs from JM, KW, MJ, CC, AM, AE and AO.
- 326
- 327 328

329 **Declaration of interests**

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331 We declare no competing interests. No funding sources to disclose.

332 **Panels, Tables and Figures**

333

Panel 1: Key terms and definitions

Gender refers to the "socially constructed norms that impose and determine roles, relationships and positional power for all people across their lifetime. Gender interacts with sex, the biological and physical characteristics that define women, men and those with intersex identities" (Global Health 5050, 2018)

Gender Data are data disaggregated by sex or reporting gendered phenomena**

Gender Equality means "equal rights, responsibilities and opportunities of women and men and girls and boys, when the interests, needs and priorities of both women and men are taken into consideration, recognizing the diversity of different groups of women and men." (UN Women, 2010)

Trans is "an umbrella term that is used to describe people whose gender is not the same as, or does not sit comfortably with, the sex they were assigned at birth" (Stonewall UK, 2017)

* We have used the Global Health 5050 definition because the definition put forward by the WHO does not explicitly recognise trans or non-gender-binary identities ** However, some agencies define gender data as data disaggregated by sex or as data that affects women exclusively

334 335

Panel 2: Search strategy and selection criteria

We identified published and grey literature on gender equality and women in science medicine and global health using Medline, Embase, GoogleScholar, Greenfile, and Scopus search engines. Search terms included: gender, gender equ*, gender inequ*, gender disparit*, male, female, gender diversity; combined with patient outcomes, research outcomes, morbidity and mortality, differences in practice. Reference lists of relevant papers were then also searched to identify further relevant papers. The first 30 hits were looked at on Google and Google Scholar searches.

345Table 1: The relationship between gender and health: summary of key literature346Please see Supplementary File for full article references

Author, Year	Summary	
Artazcoz, L. et.al. 2007	A framework for occupational epidemiological research combining classic occupational	
	epidemiology and the consideration of structural gender inequalities in health	
Barker, Ricardo & Nascimento	Programmatic evidence on how to engage men and boys in changing gender-based	
(2007)	inequity in health	
Bates, Hankivsky & Springer (2009)	A comment on the Final Report of the WHO Commission on the Social Determinants of Health promoting a discussion on gender and health beyond women's health along	
Ballantyne DI (1000)	A contribution to the analysis of gender differences in health and illness using a social	
Danantyne, 13. (1999)	determinants of health framework	
Benagiano, G. et.al. (2011)	An article that attempts to expand concepts of gender and explore sexual identity, sexual	
	behaviour, and sexual expression, with a focus on sexual minorities	
Connell, R. (2012)	An in-depth exploration of the theoretical underpinnings of gender and health, outlining	
	post-structuralist, relational theories of gender, and positioning gender analysis in both	
	local and global arenas	
Courtenay, WH. (2000)	An examination of constructions of masculinity and health within a relational context,	
D 0. W. I (1000)	outlining structures of gender and power	
Denton & Walters (1999)	Research exploring the gender differences in structural and behavioral determinants of	
Doval I. (2001)	A call for a much clearer enpresent to say, conder and health, which highlights the the	
Doyal, L. (2001)	A can for a much clearer approach to sex, gender and nearth, which highlights the the impact of both sex and gender on health for both men and women	
Galdas Cheater & Marshall (2005)	A literature review on men and health help-seeking behaviours	
Garcia-Moreno C et al (2006)	A multi-country study on the health impacts of intimate partner violence	
Hankivsky, O. (2012)	The implications for research, policy, and practice of intersectionality on women's	
, , , , , , , , , , , , , , , , , , ,	health, men's health, and gender and health	
Hawkes & Buse (2013)	A survey of the evidence for the role of gender in health status, responses by global	
	health actors, and strategies for mainstreaming gender evidence in policies/programmes	
Hosseinpoor AR, et.al. (2013)	An investigation of the social determinants of self-reported health in women and men,	
	and male-female differences in health	
Institute of Medicine (US) (2011)	A comprehensive review of the health of lesbian, gay, bisexual, and transgender people,	
H : N (2002)	as well as identification of research gaps and opportunities related to LGBT health	
Krieger, N. (2003)	The paper draws on ecosocial theory to present examples of how gender and sex are	
Macinture Hunt & Sweeting (1996)	A paper exploring the direction and magnitude of sex differences in health according to	
Machityle, Hunt & Sweeting (1990)	symptoms or conditions, and according to the phase of the life cycle	
Manandhar M. et.al. (2018)	A conceptual framework reflecting on the relationship between gender and health in the	
	context of the sustainable development goals (SDGs)	
Matthews, Manor & Power (1999)	A paper that explores the magnitude of gender difference in socioeconomic inequalities	
	in health	
McDonough &Walters (2001)	A review of gender differences in health, and a revised framework for conceptualizing	
	pathways linking gender and health	
Payne, S. (2015)	This article focuses on the health of women and girls, and the need to address gender	
Dh:11: CD (2005)	equality and gender equity in promoting health.	
Phillips, SP. (2003)	An exploration of now gender is defined and measured as a social determinant of nearly,	
Reisner SL, et al. (2016)	A review of the global health burden and needs of transgender nonulations	
Sen G. Ostlin P. (2007)	A comprehensive report that provides an overview of gender inequity in health as well	
Sen 6, Ostin 1. (2007)	as a clear conceptual framework linking gendered social and structural determinants and	
	health outcomes	
Verbrugge, L. (1985)	An early article that outlines the evidence of the relationship between gender and health	
Vissandjee, B, et.al. (2013)	A review of sex, gender, ethnicity and migration as social determinants of women's	
	health	
Vlassoff, C. (2007)	Employs a framework developed for gender and tropical diseases for the analysis of	
	non-communicable diseases and conditions in developing and industrialized countries	
world Health Organization (1998)	A technical paper outlining some of the implications of the shift from 'women in development' to 'gender and development' on the analysis of health and healthcare	



Women's share of employment in the health and social sector

Figure 1: Women's share of employment in the economy (top), share of women in science (middle), and share of employment in the health and social sector (bottom)

Data on the share of women's employment in the economy and the health sector extracted from Health Employment and Economic Growth: An Evidence Base (Buchan J, Dhillon IS& Campbell J, eds. 2017) and checked against ILOSTAT database; data on the proportion of women researchers derived from UNESCO Women in Science, Technology and Innovation dataset (2016), SAGE (For Australian data, 2016), and Gender and the Global Research Landscape (Elsevir, 2016)



Figure 2: Trends in women's participation in the general workforce (orange, solid line), science workforce (yellow, dashed line), and in the health workforce (grey, dotted line) across selected countries derived from international *WageIndicator* survey data.

Data on participation in the general workforce was derived by calculating the gender ratio between women and men
 completing WageIndicator surveys by country and year. Participation in the science workforce was derived by extracting data
 from ISCO-08 categories beginning with 21 (Science and Engineering Professionals) and 31 (Science and Engineering Associate
 Professionals). Participation in the health workforce was derived by extracting data from ISCO-08 categories beginning with
 (Health Managers), 22 (Health Professionals), 32 (Associate Health Professionals) and 53 (Carers in health Services).

WageIndicator is an online platform for information on the labour market as well as a survey tool to collect self-reported data on background, occupation, and wages. The questionnaire comparable across countries, and adapted to local languages and contexts. More detailed information on the survey tool as well as a discussion on the strengths and limitations of this approach can be found at: Tijdens K, de Vries D, Steinmetz S. Health workforce remuneration: comparing wage levels, ranking, and dispersion of 16 occupational groups in 20 countries. Human Resources for Health. 2013; 11(11). We were granted access to WageIndicator data for free for the purpose of academic research from the IZA, Germany, at http://idsc.iza.org/?page=27&stid=1025.16

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589 Supplementary material

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591Table 1: The relationship between gender and health: summary of key referencesAuthor, YearTitle