

ON SANITARIA An Carlos

Investigación bajo la perspectiva de género











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¿Por qué la perspectiva de género en investigación? Consecuencias negativas

- Limitación de la creatividad, la excelencia y el beneficio a la sociedad (Caprile 2012; Tannenbaum et al. 2019)
- Ciencia basada en estereotipos (de género) = mala ciencia y pérdida de oportunidades
- Ausencia de una mirada crítica que puede aportar un enfoque previamente no contemplado
- Pérdida de validez científica de los resultados
- Necesidades sociales sin respuesta
- Perpetuación de normas y relaciones tradicionales de género vs contribución a su transformación



ARTICLE

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Lack of consideration of sex and gender in COVID-19 clinical studies

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Sex and gender differences impact the incidence of SARS-CoV-2 infection and COVID-19 mortality. Furthermore, sex differences influence the frequency and severity of pharmacological side effects. A large number of clinical trials to develop new therapeutic approaches and vaccines for COVID-19 are ongoing. We investigated the inclusion of sex and/or gender in COVID-19 studies on ClinicalTrials.gov, collecting data for the period January 1, 2020 to January 26, 2021. Here, we show that of the 4,420 registered SARS-CoV-2/COVID-19 studies, 935 (21.2%) address sex/gender solely in the context of recruitment, 237 (5.4%) plan sex-matched or representative samples or emphasized sex/gender reporting, and only 178 (4%) explicitly report a plan to include sex/gender as an analytical variable. Just eight (17.8%) of the 45 COVID-19 related clinical trials published in scientific journals until December 15, 2020 report sex-disaggregated results or subgroup analyses.

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Sex bias in clinical trials in gastroenterology and hepatology

Patrizia Burra , Alberto Zanetto & Giacomo Germani

Nature Reviews Gastroenterology & Hepatology 19, 413–414 (2022) Cite this article

gastroenterology and hepatology. Without sex parity and increased attention to sexspecific analyses, the translation of trial results into real-world clinical practice remains suboptimal with unpredictable consequences for patient care.

1067 Accesses 1 Citations 7 Altmetric Metrics



Contemporary Clinical Trials

Volume 115, April 2022, 106718



Enrollment of female participants in United States drug and device phase 1–3 clinical trials between 2016 and 2019

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Abstract

Background

Historically, females have been underrepresented in clinical trials evaluating the safety and efficacy of investigational drugs and devices. We assessed participation by sex in recent clinical trials.

Methods

We extracted data over a 4-year period (2016–2019) from ClinicalTrials.gov on USused, pharmaceutical industry or government-funded Phase 1-3 clinical trials of rugs and devices. We included trials with adult cardiovascular, psychiatric, and ncer endpoints whose protocol planned to enroll both sexes. Average proportions females enrolled per trial were described overall and by disease area.

esults

cross 1433 trials including 302,664 participants in our analysis, on average, 41.2% ere female. Females were underrepresented compared with their proportion of the sease population in cardiovascular disease trials (41.9% female participants vs. 1% female population with cardiovascular disease). In psychiatry, where females $\textbf{Biological sex bias in clinical trials is a common issue in various medical fields, including} \) \\ \\ \text{mprise 60\% of patients, the mean participation of females in clinical trials was} \\$ 2.0%. Similarly, for cancer trials, where 51% of patients are female, only 41.0% of incer clinical trial participants were female. For each therapeutic area analyzed, the articipation of females in clinical trials fell short of the benchmark derived from ational prevalence data.

Conclusions

While the participation of females in clinical trials has improved compared to previous reports, sex-based gaps still persist between trial populations and the expected to use these drugs/devices based on distributions of diseases in the population. Given potential sex-based differences in treatment responses and toxicities, adequate inclusion of females in clinical trials remains critical.

♠ Women's Health Reports > Vol. 3, No. 1 > Original Article





Sex Inequalities in Medical Research: A

Systematic Scoping Review of the Literature

Lea Merone ⊡, Komla Tsey, Darren Russell, and Cate Nagle

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Background: Historically, medical studies have excluded female participants and research data have been collected from males and generalized to females. The gender gap in medical research, alongside overarching misogyny, results in real-life disadvantages for female patients. This systematic scoping review of the literature aims to determine the extent of research into the medical research sex and gender gap and to assess the extent of misogyny, if any, in modern medical research.

Methods: Initial literature searches were conducted using PubMed, Science Direct, PsychINFO and Google Scholar. Articles published between January 01, 2009, and December 31, 2019, were included. An article was deemed to display misogyny in it discussed the female aesthetic in terms of health, but did not measure health or could not be utilized to improve clinical

Results: Of the 17 included articles, 12 examined the gender gap in medical research and 5 demonstrated misogyny, assessing female attractiveness for alleged medical reasons. Females remain broadly under-represented in the medical literature, sex and gender are poorly reported and inadequately analyzed in research, and misogynistic perceptions continue to permeate the narrative

¿Por qué la perspectiva de género en investigación? Consecuencias positivas l

- Equipos de investigación con equilibrio de género tienden a funcionar mejor porque...
 - … mejora en actividad de los equipos → atracción de personas investigadoras de alto nivel
 - … el mejor equipo posible = mixto*: mayor eficiencia, creatividad, diversidad de puntos de vista, calidad en la toma de decisiones
- Suficiente representación de mujeres
 + valores de igualdad



¿Por qué la perspectiva de género en investigación? Consecuencias positivas II

- Mejores propuestas para proyectos de investigación
 - Inclusión de la perspectiva de género → indicador frecuente para la evaluación en convocatorias autonómicas, estatales e internacionales
 - Mayores oportunidades de financiación
 - Mayor tasa de éxito en convocatorias competitivas







Nota informativa sobre evaluación de la Integración del Análisis de Género en la Investigación (IAGI), en las convocatorias de la Agencia Estatal de Investigación

[Actualizada a noviembre de 2020]

IAGI

- Integrar transversalmente el análisis de sexo y/o género en todas las fases del ciclo de una investigación (sea o no específica de género), siempre que la temática, resultados o aplicaciones del proyecto puedan afectar (in)directamente a seres humanos
- Garantizar mayor rigor científico, basado en la evidencia y en la investigación ética
- Ejemplos: GENDERED INNOVATIONS y GENDERED INNOVATIONS 2

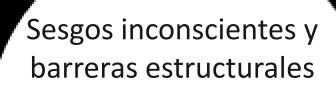


Igualdad e inclusión de género = prioridad transversal

Objetivo: eliminar la desigualdad de género y otras desigualdades (interseccionalidad)



discapacidad, etnia y LGBTIQ+



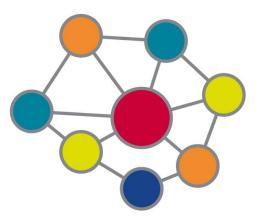
+++: salud, cuidado (COVID-19), violencia, IA, robótica, cambio, climático

¿Cómo integrar la perspectiva de género en investigación? I

- Enfoque de investigación → ¿de qué forma las conclusiones del proyecto se aplicarán a las necesidades específicas de hombres y/o mujeres?
- Revisión de la literatura → posibles diferencias y/o semejanzas de sexo/género por las implicaciones en/de los resultados de la investigación en mujeres y/o hombres (o en animales, tejidos y células)
- Preguntas e hipótesis de la investigación → análisis riguroso de sexo y/o género sobre posibles diferencias y/o semejanzas que pueda haber entre hombres y mujeres (o en animales, tejidos y células).

¿Cómo integrar la perspectiva de género en investigación? Il

- Cuestiones éticas → identificación y abordaje adecuado de las implicaciones particulares para hombres y/o mujeres
- Difusión/transferencia del conocimiento →
 - Estrategia sólida para la aplicación adecuada de los resultados de la investigación a las necesidades específicas de mujeres y/o hombres
 - Se informará de las diferencias y/o semejanzas que se detecten gracias al proyecto



ese

Se European Science Editing

Heidari et al. Research Integrity and Peer Review (2016) 1:2 DOI 10.1186/s41073-016-0007-6 Resea

REVIEW

Sex and Gender Equity in Research: rationale for the SAGER guidelines and recommended use

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Competing interests

All authors are employees of The Lancet group of journals, published by Elsevier. Joan Marsh is a member of the Editorial Board of European Science Editing and chair of the gender policy committee of the European Association of Science Editors.

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Author Contributions

All authors contributed equally to the drafting, writing, and review of this manuscript.

Review

The Sex and Gender Equity in Research (SAGER) guidelines: Implementation and checklist development

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Table 1. SAGER guidelines checklist Studies with human participants

Section / topic	Item number	Checklist item	Reported on page number
General			
	1	The terms sex/gender used appropriately	
Title			
	2	Title specifies the sex/gender of participants if only one included	
Abstract			
	3a	Abstract specifies the sex/gender of participants if only one included	
	3b	Study population described with sex/gender breakdown*	

4a	If relevant, previous studies that show presence or lack of sex/gender differences or similarities are cited
4b	Mention of whether sex/gender might be an important variant and if differences might be expected
4 c	The demographics of the study population with regard to sex/gender (eg, disease prevalence among male/female study participants) are outlined*
Methods	
5a	Method of definition of sex/gender (eg, self-report, genetic testing)
	Description of how sex/gender was considered in the design, whether authors ensured adequate representation of male and female study participants, justification of the reasons for any
5b	exclusion of male or female participants, or explanation if not considered. Justification of other sex/gender-specific interventions of study designs (eg, mandating contraception for

Results			
	6a	Study population description with complete gender/sex	
		breakdown for all categories considered*	
	6b	Where appropriate, data presented disaggregated by sex/gender,	
	35	and sex/gender differences and similarities are described	
	6c	Sex- and gender-based analyses reported regardless of outcome	
	OC.	(in main paper if pre-specified; otherwise in appendix)*	
	6d	For clinical trials, adverse event data disaggregated by sex/gender	
	ou	(in main paper if pre-specified; otherwise in appendix)*	
	6e	Patient-reported outcome data disaggregated by sex/gender (in	
	ue	main paper if pre-specified; otherwise in appendix)*	
		For epidemiological studies, the effects of other exposures on	
	6f	health problems examined for all genders and analysed critically	
		from a gender perspective	
	6g	Table 1 includes separate rows for male sex/gender, female	
	ug.	sex/gender and other categories if collected*	
Discussion	ı		
		Potential implications of sex/gender on the study results and	
	7a	analyses, including the extent to which the findings can be	
		generalized to all sexes/genders in a population	
		If a sex/gender analysis not done, a rationale is given and	
	7b	implications of the lack of such analysis on the interpretation of	
		the results are discussed	

Table 2. SAGER guidelines checklist Other studies (applied sciences, biological sciences)

Section / topic	Item number	Checklist item	Reported on page number		
General					
	1	The terms sex/gender used appropriately			
Title					
	2a	Title specifies the sex of animals or any cells, tissues, and other material derived from these			
	2b	In applied sciences (technology, engineering, etc.), the title indicates if the study model was based on one sex/gender or the application was considered for the use of one specific sex/gender			
Abstract					
	3a	Abstract specifies sex of animals or any cells, tissues, and other material derived from these			
	3b	In applied sciences (technology, engineering, etc.), the abstract indicates if the study model was based on one sex/gender or the application was considered for the use of one specific sex/gender			
Introduction	Introduction				
	4a	If relevant, previous studies that show presence or lack of sex or gender differences or similarities are cited			
	4b	Mention of whether sex/gender might be an important variant and if differences might be expected			

Methods			
	5a	In cell biological, molecular biological, or biochemical experiments, the origin and sex chromosome constitutions of cells or tissue cultures are stated. If unknown, the reasons are stated	
	5b	For studies testing devices or technology, explanation of whether the product will be applied or used by all genders and if it has been tested with a user's gender in mind	
	5c	If relevant, description of how sex/gender was considered in the design	
	5d	For in-vivo and in-vitro studies using primary cultures of cells, or cell lines from humans or animals, or ex-vivo studies with tissues from humans or animals, the sex of the subjects or source donors is stated (except for immortalized cell lines, which are highly transformed)	
Results			
	6	For studies using animal models, present a sex breakdown of the animals*	
Discussion	1		
	7	If relevant, potential implications of sex/gender on the study results and analyses, including the extent to which the findings can be generalized to all sexes/genders in a population	

Otros recursos

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