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Mortality in Brazil according to gender perspective, years 2000 and 2010

Mortalidade no Brasil segundo perspectiva de gênero, anos 2000 e 2010

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ABSTRACT: *Objective:* The article assessed the overall mortality in Brazil in 2000 and 2010. *Methods:* Data source was the Mortality Information System from Ministry of Health of Brazil. *Results:* The data show the high rate of mortality among men compared to women between ages of 20 to 59 years and an expressive lower life expectancy by this population. The main groups of death were: external causes; diseases of the circulatory system, diseases of the digestive system, infectious and parasitic diseases, diseases of the respiratory system; mental and behavioral disorders; diseases of the nervous system; endocrine, nutritional and metabolic diseases; neoplasia and diseases of the genitourinary system. *Conclusion:* Unequal gender relations and distinct characteristics of exposure to risk factors can explain this mortality, highlighting the need to bring critical incorporation of relational gender perspective by public health policies.

Keywords: Gender and Health. Men's health. Women's health. Information systems. Mortality. Health policy.

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RESUMO: *Objetivo:* O artigo avaliou a mortalidade geral no Brasil em 2000 e 2010. *Métodos:* A fonte de dados foi o Sistema de Informação sobre Mortalidade do Ministério da Saúde. *Resultados:* Os dados evidenciam alto índice de mortalidade dos homens em relação às mulheres na faixa etária dos 20 aos 59 anos e uma expectativa de vida expressivamente menor por parte da população masculina. Os principais grupos de morte são: causas externas; doenças do aparelho circulatório; doenças do aparelho digestivo; doenças infecciosas e parasitárias; doenças do aparelho respiratório; transtornos mentais e comportamentais; doenças do sistema nervoso; doenças endócrinas, nutricionais e metabólicas; neoplasias e doenças do aparelho geniturinário. *Conclusão.* As relações desiguais de gênero e as características distintas de exposição a fatores de risco podem explicar esses índices de mortalidade, realçando a necessidade da incorporação crítica da perspectiva relacional de gênero por parte das políticas públicas de saúde. *Palavras-chave:* Gênero e saúde. Saúde do homem. Saúde da mulher. Sistemas de Informação. Mortalidade. Política de saúde.

INTRODUCTION

Literature has been stating that more men than women die from the leading causes of death^{1,2}. The differences between the sexes in terms of mortality, as well as of morbidity, can be explained from the following factors: biological-genetic specificities of the sexes; social differences and inequalities; different social expectations for both sexes; search and use of health services by men, professional health care aimed at men³.

Specifically in relation to mortality, differences between men and women reflect unequal gender relations⁴. Besides suggesting distinct characteristics of exposure to risk factors, they also indirectly explain inequalities in health^{4,5}.

In Brazil, the distribution of male deaths in 2010 was 7.9% among men aged under 20 years old, 37.7% among men between 20 and 59 years old, and 54.4% among men aged over 59, while in females, the values were 6.5, 23.3 and 70.2% respectively for the same age groups, suggesting a high disparity between men and women aged between 20 and 59°. As a consequence of this high mortality in men, life expectancy at birth (69.7 years) is up to 7.6 years lower than for females⁷, having a direct impact on the population pyramid, with a substantial reduction of the male population, in comparison to females, at the highest ages.

Traditionally, mortality statistics have been used to assess the health situation in the world. In Brazil, the Mortality Information System (MIS) was established in 1975 and is currently configured as the primary source of information on deaths⁸, still requiring some adjustment factors to reduce underreporting biases and deaths from undetermined causes.

In order to formulate more specific health actions, it is necessary to explore within this System the evolution of differences between sexes, taking into account cultural gender models and public policies addressing those differences. Thus, this study aimed to analyze the overall mortality in Brazil in 2000 and 2010, applying an inter-relational gender perspective.

MATERIALS AND METHODS

The target population for this study consisted of adults, considered here men and women between 20 and 59 years old.

Data from death certificates in 2000 and 2010 were obtained directly from the MIS, managed by the Health Surveillance Secretariat of the Ministry of Health. The numbers of deaths for these years, respectively, are of 211,726 and 241,276 for males, and 98,120 and 112,386 for females.

Crude data were corrected for underreporting using correction factors from a study on active search of deaths⁹, according to Federative Units, sex and age group for each year evaluated⁸. The number of deaths from 8 of the 27 Federative Units (Distrito Federal, Espírito Santo, Mato Grosso do Sul, Paraná, Rio de Janeiro, Rio Grande do Sul, Santa Catarina and São Paulo) have been considered adequate, requiring no correction for underreporting.

The overall mortality rate was calculated based on the census population in those years for each state, region and country. The direct method was used for standardization of rates by age, taking the total adult population of 2010 as reference.

Thus, the rates of overall mortality were calculated per thousand inhabitants for male and female after correction for underreporting and adjustment by age in 2000 and in 2010. Data by sex were compared according to region and year.

Proportional mortality rates by age (20 - 29, 30 - 39, 40 - 49 and 50 - 59 years), race/skin color (white, black, yellow, brown and indigenous), region of residence and groups of cause of death (chapters of the International Classification of Diseases (ICD)-10 and groups of specific causes of death) were calculated separately for each sex and year of death, considering confidence intervals of 95% (not showed).

As cause of death, correction factors were also adopted for redistribution of poorly defined causes, considering the combination of the variables Federative Unit, sex and age⁸ for each year of death. Deaths classified in ICD-10 Chapter XVIII (Symptoms, signs and abnormal clinical and laboratory findings not classified elsewhere) were redistributed proportionally in Chapters I to XVII. Frequencies of underlying causes of death were classified and estimated, according to the ICD-10¹⁰ chapters, for sex and year. Specific mortality rates were calculated for each group of the ICD-10. Proportional mortality of each group of causes was calculated by men and women in 2000 and 2010. Rates were age-standardized using the total adult population of 2010 as reference and corrected for underreporting and ill-defined cases. Data were calculated by sex according to year for each group of causes.

Regarding to ethics aspects, data for this study were secondary, obtained from the National Mortality Information System, in this manner free from an obligation to be approved by Ethic Committee.

RESULTS

The crude rates of overall mortality in 2000 were of 5.0 per thousand inhabitants for males and 2.2 for females, decreasing in 2010 to 4.6 and 2.1 respectively. After correction for

underreporting and adjustment by age, the differences between the years expanded when compared to the crude data, from 5.8 to 2.6 deaths per thousand inhabitants in 2000 to 5.0 and 2.1 in 2010 (Table 1). It was observed that from 2000 to 2010 there was a decrease in the corrected and age-standardized mortality rates in all regions and for both sexes. However, this decrease was not homogeneous both for sex and for region, being 9.8 times higher among women in the North, 5.3 in the Northeast, and 1.6 in the Southeast when compared to men in the same region; in the Southeast and South, the relative percentage of decrease was close between sexes.

Among men, the greatest decrease occurred in the Southeast region (22.6%), and the lowest in the North (1.9%). The highest rate in 2010 was observed in the Northeast (5.5%), and the lowest in the South (4.5%). For women, the decrease ranged from 12.0% in the Central-West to 19.2% in the Southeast, with the lowest rate found in the South (2.0%). In general, the variation in mortality rates by region among men is up to twice the value for women (Table 1).

Figure 1 illustrates the evolution of mortality rates for both sexes according to age. It is noticed that there was a decrease from 2000 to 2010 for both sexes in all age groups, but it was much lower in the youngest age group, especially among men, who always present higher rates than women do.

It was observed that the proportion of older men increased from 2000 to 2010 as result of the decrease in the three younger age groups (Table 2). However, this situation is influenced by region: this positive scenario remains only in the Southeast. In the Central-West region, there was also an increase among older men, but due to a decrease only among men aged between 30 and 39 years of age; in the other regions, there was an increase among younger men, with the most negative situation in the North, where in 2010 the other age groups kept

Table 1. Distribution of deaths (n) and overall mortality rate (per thousand inhabitants), corrected for underreporting and age-standardized, by region, according sex and year of death. Adult population (20 - 59 years old), Brazil, 2000 and 2010.

	Year of death								
	2000				2010				
	Male		Female		Male		Female		
	n	%	n	%	n	%	n	%	
Region									
North	14,148	5.3	6,554	2.7	20,424	5.2	8,144	2.2	
Northeast	57,478	5.7	28,991	2.7	72,905	5.5	31,738	2.2	
Southeast	113,347	6.2	50,067	2.6	110,286	4.8	53,756	2.1	
South	31,503	4.9	15,217	2.3	35,892	4.5	17,050	2.0	
Central-West	15,478	5.5	6,784	2.5	19,011	4.9	8,606	2.2	
Brazil	231,954	5.8	107,613	2.6	258,518	5.0	119,294	2.1	

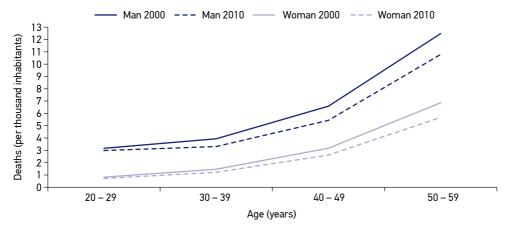


Figure 1. Death rate (per thousand inhabitants), corrected for underreporting and age-standardized, by age, according to sex and year of death. Adult population (20 – 59 years old), Brazil, 2000 and 2010.

Table 2. Proportional mortality (%), corrected for underreporting by sociodemographic variables, according to age and year of death. Brazil, adult male population, 2000 and 2010.

	Year of death									
	2000				2010					
	20 – 29 years	30 – 39 years	40 – 49 years	50 – 59 years	20 – 29 years	30 – 39 years	40 – 49 years	50 – 59 years		
	%	%	%	%	%	%	%	%		
Total	20.3	20.9	26.5	32.3	19.7	18.5	25.3	36.5		
Region										
North	26.3	22.4	23.7	27.6	28.6	21.9	22.6	26.9		
Northeast	23.3	22.0	24.6	30.1	25.6	21.0	23.9	29.5		
Southeast	19.3	20.6	27.6	32.5	15.1	16.7	26.3	41.9		
South	14.8	19.0	27.6	38.6	16.3	16.5	26.3	40.9		
Central-West	22.1	21.8	25.7	30.4	21.2	20.0	25.5	33.3		
Race/ skin color	Race/ skin color									
White	17.1	19.5	27.2	36.2	14.9	15.8	25.8	43.5		
Black	19.8	21.7	28.5	29.9	17.1	19.4	26.3	37.1		
Yellow	14.6	19.7	25.7	40.0	12.4	14.4	23.7	49.5		
Brown	26.5	22.9	24.8	25.8	24.9	20.8	24.5	29.7		
Indigenous	23.2	24.4	27.2	25.2	28.9	26.4	19.6	25.1		
Study (years)										
≤8	17.7	19.1	26.1	37.0	13.9	17.5	26.8	41.8		
> 8	24.3	21.9	26.0	27.8	23.5	18.9	24.1	33.5		
Stable relationship										
No	33.2	24.5	21.9	20.4	28.4	21.8	23.9	25.8		
Yes	5.9	16.5	31.5	46.2	4.5	12.0	27.2	56.3		

the same proportion of 2000. In the Northeast region, it was observed a decrease in the age group from 30 to 39 years old, and in the South an increase was also identified in the older age group, with a decrease in the middle ones.

As for race/skin color (Table 2), there was an increase in the oldest age group for white, black, yellow and brown-skinned men, and a decrease for yellow-skinned men between 30 and 39 years of age and for brown men aged between 20 and 39 years; the indigenous kept in 2010 the same proportions of 2000. It should be noted that in 2000 information on race/skin color was absent for 13.6% of men, a number that fell to 6.0% in 2010.

Regarding education, men showed an increase in the proportion of deaths in the last age group with a decrease in the others; this proportion remained the same only for men aged between 40 and 49 with less than 8 years of education (Table 2). A similar situation was observed regarding the type of conjugal union, in which men aged between 40 and 49 years with common-law or marital partnerships maintained the same proportion of deaths as observed in 2000.

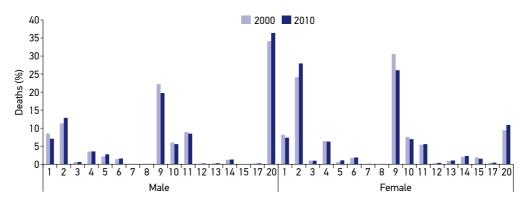
For women (Table 3), the same pattern was observed: the proportion of deaths increased with aging, and there was a greater increase in the period for the oldest age group in all regions, with a decrease in the age group of 30 to 39 years old in the Northeast and South, and in all other groups in the Southeast and Central-West. Women of yellow and indigenous race/skin color maintained the same death rates at all ages. In the other race/skin color groups, there was an increase in the proportion of deaths among the oldest women, with decreases in all other age groups for white women, and between 20 and 39 years old for the black and brown-skinned. The lack of information about race/skin color for women reached 16.2% in 2000 and 6.3% in 2010. Unlike men, women with any level of education or marital status showed an increase in the proportion of deaths in the age group between 50 and 59 years, and a decrease in all others.

The comparison between the sexes (Tables 2 and 3) shows a very unfavorable situation for the younger men, who presented almost twice the proportion of deaths than women, a situation that has persisted in nearly a decade of study. In 2000, men between 20 and 39 years of age had a higher proportion of deaths than women of the same age have in all regions of the country, as well as among white, black and brown-skinned. Among the yellow-skinned, the highest proportion among men was observed in the group of 20 to 29 years old. With regard to education, a higher deaths proportion was observed among men aged between 20 and 39 in both education groups (\leq 8 and > 8 years of study). A higher proportion was also observed among 20 to 39 years-old men who had no common-law or marital partnership and among men aged 30 to 39 years with partners. A similar situation occurred in 2000, excepting the partnership, which did not affect men and women differently.

The proportional mortality pointed in 2000 and in 2010 as the three most important groups in order of appearance: external causes of morbidity and mortality, diseases of the circulatory system and neoplasms for men; and neoplasms, diseases of the circulatory system and external causes of morbidity and mortality for women (Figure 2).

Table 3. Proportional mortality (%), corrected for underreporting by sociodemographic variables, according to age and year of death. Brazil, adult female population, 2000 and 2010.

	Year of death								
	2000				2010				
	20 – 29	30 – 39	40 – 49	50 – 59	20 – 29	30 – 39	40 – 49	50 – 59	
	years	years	years	years	years	years	years	years	
	%	%	%	%	%	%	%	%	
Total	11.6	17.6	29.3	41.5	10.4	15.4	28.2	46.0	
Region									
North	18.3	19.7	28.3	33.7	16.3	19.5	26.3	38.0	
Northeast	13.4	17.7	27.9	41.0	12.6	16.4	28.1	42.9	
Southeast	10.2	17.3	30.2	42.3	8.4	14.4	28.5	48.7	
South	9.1	16.9	29.0	45.0	9.0	14.1	28.0	48.9	
Central-West	13.1	18.9	30.4	37.7	11.3	17.3	28.2	43.2	
Race/ skin color									
White	10.8	16.4	29.1	43.8	9.2	13.9	27.4	49.5	
Black	10.4	19.1	30.6	39.8	8.6	16.0	29.1	46.3	
Yellow	8.1	15.5	29.0	47.4	10.2	14.6	24.5	50.8	
Brown	13.6	19.2	29.3	37.8	12.3	16.9	28.9	41.9	
Indigenous	19.1	23.5	26.6	30.8	16.1	27.7	23.1	33.0	
Study (years)									
≤ 8	8.4	14.8	28.5	48.3	6.1	11.9	27.0	55.0	
> 8	15.3	20.7	30.6	33.5	12.9	17.3	28.8	41.0	
Stable relationship									
No	16.9	19.5	26.3	37.3	14.5	17.5	27.0	41.0	
Yes	6.1	15.6	32.3	46.0	4.4	12.1	29.8	53.8	



1: Certain infectious and parasitic diseases; 2: Neoplasms; 3: Diseases of the blood and blood-forming organs and certain disorders involving the immune mechanism; 4: Endocrine, nutritional and metabolic diseases; 5: Mental and behavioral disorders; 6: Diseases of the nervous system; 7: Diseases of the eye and annex; 8: Diseases of the ear and mastoid process; 9: Diseases of the circulatory system; 10: Diseases of the respiratory system; 11: Diseases of the digestive system; 12: Diseases of the skin and subcutaneous tissue; 13: Diseases of the musculoskeletal system and connective tissue; 14: Diseases of the genitourinary system; 15: Pregnancy, childbirth and the puerperium; 17: Congenital malformations, deformations and chromosomal abnormalities; 20: External causes of morbidity and mortality.

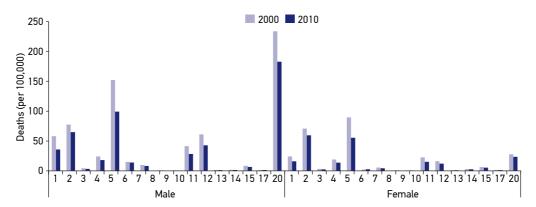
Figure 2. Proportional mortality by group of causes, corrected for ill-defined causes and underreporting and standardized for age, by sex, according to year of death. Adult population (20 – 59 years old), Brazil, 2000 and 2010.

As shown in Figure 3, men generally present higher mortality rates than women for the ICD-10 groups, except for diseases of the musculoskeletal system and connective tissue diseases in 2000 and 2010, for which women presented the double. Among then should be detached highest rates among men for: infectious and parasitic diseases (23 times higher in 2000 and 2.2 in 2010), mental and behavioral disorders (8.2 and 6.0), diseases of the nervous system (1.8 and 1.9), diseases of the respiratory system (3.7 and 1.8), diseases of the digestive system (3.7 and 3.5), and external causes (8.1 and 7.6).

DISCUSSION

Data in this study show the decline in mortality rates in men and women from 2000 to 2010 in all age groups, with lowest reduction among younger people (20-29~years) and highest among men and women aged between 40 and 49 years. The risk of death increases with aging, being up to 3.6 times higher for older women and 8.1 for men compared to the younger ones in 2010, but 7.8% lower than in 2000 for men and 5.5% for women. However, it is always higher among men, up to 4.2% higher among younger men when compared to women in 2010, a higher value than in 2000 (3.8%). This shows an increase in inequality between sexes.

For all the world, data of the World Health Organization (WHO) for 2011¹¹ show that mortality is 21% higher among men aged from 15 to 69 years when compared to women in the same age range, with the exception of maternal and neonatal death causes. These same data corroborate the global demographic transition, with the increase in life expectancy.



1: Certain infectious and parasitic diseases; 2: Neoplasms; 3: Diseases of the blood and blood-forming organs and certain disorders involving the immune mechanism; 4: Endocrine, nutritional and metabolic diseases; 5: Mental and behavioral disorders; 6: Diseases of the nervous system; 7: Diseases of the eye and annex; 8: Diseases of the ear and mastoid process; 9: Diseases of the circulatory system; 10: Diseases of the respiratory system; 11: Diseases of the digestive system; 12: Diseases of the skin and subcutaneous tissue; 13: Diseases of the musculoskeletal system and connective tissue; 14: Diseases of the genitourinary system; 15: Pregnancy, childbirth and the puerperium; 17: Congenital malformations, deformations and chromosomal abnormalities; 20: External causes of morbidity and mortality.

Figure 3. Mortality rate from major groups of causes (per 100,000 inhabitants), corrected for

ill-defined causes and underreporting and standardized for age, by sex, according to year of death. Adult population (20 – 59 years old), Brazil, 2000 and 2010.

Among men, in 2000, 14.3% of deaths occurred in those aged between 15 and 29 years, 29.4% between 30 and 49, and 56.3% between 50 and 69 years old; in 2011, these values were of 12.9, 27.5, and 59.6% respectively. For the same age groups, the results were the same for women, with distinction to the age most affected by deaths (50 - 69 years): 58.5% in 2000 and 61.6% in 2011.

In accordance with official national data⁸, the three most common groups of death among the proportional mortality were: external causes of morbidity and mortality, diseases of the circulatory system and neoplasms for both sexes. Even in different order, that is, neoplasms changing place with external causes of morbidity and mortality for women, the strategies adopted for the Ministry of Health aiming to increment the surveillance of these diseases and to reduce the risk factors for them are reinforced.

The proportional mortality allows to identify leading causes of deaths in a specific population without determine their magnitude¹². The main advantage to use it is to provide data for policy makers' decisions. Additionally, the use of mortality rate by causes authorizes to compare magnitude with others populations and throughout time.

The highest mortality rate among men is primarily due to deaths from external causes. These rate is about 8 times higher than among women, followed by mental and behavioral disorders (6 times higher in 2010), diseases of the digestive system (3.5 times higher in 2010), infectious and parasitic diseases (more than 2 in both studied years), and diseases of the nervous system (1.9 times higher in 2010). Even though rates reduced in the male population from 2000 to 2010 for most of groups, with a substantial percentage for diseases of the respiratory system (43.8%), they still represent important indicators of the inequality between men and women. Although diseases of the skin and subcutaneous tissue do not configure as a major cause of death among men, their growth among men draws attention, as well as neoplasia, despite its lesser magnitude.

The men's exposure to risk factors of death from external causes (accidents and violence) is widely recognized, as well as other risk behaviors. Those behaviors may contribute to the occurrence of mental and behavioral disorders, neoplasia and diseases of the digestive system (smoking and excessive alcohol consumption, for example), in addition to occupational exposure that favors the emergence of infectious and parasitic diseases^{13,14}.

The magnitude of the causes of death in individuals aged between 15 and 69 years in the world have changed. Between 2000 and 2011, mortality rate in men due to chronic diseases increased by 2.5% and decreased in those caused by infectious diseases, nutritional deficiencies, and external causes; in women, it is possible to identify the same course of causalities: reduction in deaths by infectious diseases, nutritional deficiencies and external causes, and increase in those caused by chronic diseases (2.8%). Differences in causes of death according to regions of the world should be taken into account. Data from WHO show in five of six regions a decrease from 2000 to 2011 of deaths caused by infectious diseases and nutritional deficiencies, with differences for men and women: Africa (men: 5.8%; women: 5.6%), America (men: 1.5%; women: 0.9%), Eastern Mediterranean (men: 4.8% women: 2.8%), Southeast Asia (men: 4.6%; women: 2.8%) and Western Pacific (men: 0.4%; women: 0.9%). In one, Europe, there was an increase (men: 1.0%; women: 1.5%). With regard to chronic

diseases, all regions showed an increase in the difference between the years: Africa (men: 5.6%; women: 5.1%), America (men: 1.3%; women: 0.4%), Eastern Mediterranean (men: 1.3%; women: 2.0%), Europe (men: 3.0%; women: 0.8%), Southeast Asia (men: 4.6%; women: 4.7%) and Western Pacific (men: 1.2%; women: 2.6%). For deaths from external causes, rates have reduced only in three regions when comparing the two years: Europe, Southeast Asia and Western Pacific¹¹.

According to other analyzes of deaths in Brazil in recent years, there was a large concentration of adult deaths in males, with increased rates of mortality for both sexes with aging⁶. Changes in causes of death have affected the age pattern of mortality of the Brazilian population, occurring mainly in areas where deaths due to external causes are more common. These causes affect mainly young men, being social inequalities one of its main determinants.

In Brazil, the mortality rate due to external causes increased from 69.7 per 100,000 inhabitants in 2000 to 72.4 in 2009, an increase of 3.9%, corresponding to 12.6% of total deaths¹⁵ and ranking third place among the most frequent causes of death. Among types of occurrences, land transport accidents affected more men aged between 20 and 39 years, living in the South and Central-West regions; homicides were more frequent for 20 to 39 years-old men in the Northeast and Central-West; while falls affected especially men aged over 59 years from the Central-West, Southeast and South¹⁵, a situation similar to that observed in 2010. Regarding three investigated phenomena¹⁶ — death, hospitalization and emergency care for aggression in the general population — the Southeast and Northeast regions take turns as the regions with the largest representation, while North and Central-West regions have the lowest incidence of these death causes. Not surprisingly, authors characterize the Southeast as an urban area with high population density, in which complex interpersonal relationships are established^{15,16}.

Cultural gender models had better explained the differences between sexes about deaths from external causes, particularly by aggression. Understanding these models, in particular those relating to masculinities, can widen this discussion. Power is one of the valued attributes in the socialization of some masculine segments in certain societies. In exercising power, it is possible to occur a strong association with violence, causing men to develop aggressive behaviors or even expose themselves to danger for obtaining power, favoring the occurrence of lethal consequences^{17,18}. Thus, when some masculinity models are reinforced, men can both harm women and other men, as well as be victims of male domination¹⁹.

It is suggested that low mortality rates may be due to unregistered deaths²⁰, but the data reported here were corrected for underreporting, possibly being a reflection of low birth and infant mortality rates, associated with an improvement in health care services and quality of life. Anyway, deaths from external causes were not corrected for underreporting, by considering rare the possibility of error in the underlying cause of death in these cases.

Despite the improvement of official data along time, this study is limited especially by underreporting and less by ill-defined causes. To correct data, we used recent data, standardized to the 2010 population, and adjusted factors based on sex, age and local of residence. However, these techniques approximated data to real values; national records still present problems of underreporting especially in North and Northeast regions, as well poorly definite causes. Some authors^{21,22} use similar techniques to bring official data (births and deaths) near to reality. At the end, gender difference observed in this study was close to other Brazilian studies²³⁻²⁶. In summary, men presented higher mortality rates than women in the four age groups evaluated, and a higher proportion for most of the ICD-10 groups, indicating greater exposure to risk factors for early death. However, the proportion of deaths is greater even before they reach 20 years of age (7.9 versus 6.5% in women), suggesting greater vulnerability¹⁴.

Gender differences in morbidity and mortality profiles influenced — directly or indirectly — the responses by the Brazilian state translated into policies. The National Men's Health Policy/PNAISH²⁷ can be cited as an example. This policy was formulated by the Ministry of Health as a response to the expectations of civil society sectors, researchers, managers and other health workers that see in the high mortality rates of men a public health issue, whose peculiarities refer to a relational perspective between genders.

Mortality rates in various levels of complexity highlight the paradox between the historic privileges held by men over women and their highly detrimental effects to these men's health, coming from the same paradigm that supports such privileges. Gender issue had been raised mainly to highlight the oppression suffered by women in the context of a hegemonic patriarchal culture. Expanding and consolidating the principles of feminist and women's movements, the actions and programs aiming at improving the quality of health services for men have valued the criticism to the hegemonic conception of masculinity². The relationship between genders reaches the healthcare field, demanding attention to the processes of health and illness among men in all cultural and socioeconomic contexts⁵.

Considering various health cultural aspects of male segments, the aim is to expand the presence of men in health services, legitimating them as active subjects of care, promoting greater adherence to the existing programs, increasing the resolution of their problems and building space for their needs. Those needs should be known and recognized by the Unified Health System (*Sistema Único de Saúde* – SUS) — respecting the different levels of development and organization of local health systems and management types —, with a view to reducing gender inequalities⁵.

In terms of addressing the impact of external causes in the general morbidity/mortality scenario, specific policies and legal precepts have emerged. Aiming at the reduction of mortality due to road traffic accidents, the new Brazilian Traffic Code²⁸ was promulgated in 1998, resulting in control of death rates per capita and reduction of death rates per vehicle. Considering that deaths due to external causes are preventable, the Ministry of Health has also implemented the National Policy for Reduction of Morbidity/Mortality from Accidents and Violence²⁹, focused on preventing violence and promoting a culture of peace, in order to further reduce accidents and violence in the country. Although a sexist, "macho", culture persists, denying basic health care needs, men in general are increasingly recognizing these needs and seeking for their rights.

A breakthrough in the creation of programs and legal precepts can contribute to real reducing mortality in Brazil. However, it is still needed — to the same extent — a further development of measures and actions more aimed at the gender perspective, for a greater effectiveness of the prevention actions that intend to reduce lethal events, taking into account the differences between men and women.

CONCLUSION

In conclusion, men present higher rate of mortality than women do between 20 and 59 years old for external causes; diseases of the circulatory system; diseases of the digestive system; infectious and parasitic diseases; respiratory system diseases; mental and behavioral disorders; nervous system diseases; endocrine, nutritional and metabolic diseases; neoplasia and diseases of the genitourinary system. Unequal gender relations and distinct characteristics of exposure to risk factors can explain this mortality, highlighting the need to bring critical incorporation of relational gender perspective by public health policies.

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