

Research Article





Quality of life in municipal public health managers: a cross-sectional study from Brazil

Abstract

Introduction: The work of the public health manager is very challenging, and its association with risk factors can lead to negative impacts on quality of life.

Objective: Identify and evaluate quality of life of public health managers and its association with demographic, socioeconomic factors.

Methods: Data were obtained through filling of three questionnaires, one being the WHOQol-BREF to collect data related to quality of life. Descriptive statistical analysis was performed through frequency calculation. For analytical analysis, the Chi-square test and Fisher's Exact Test were applied.

Results: Most participants reported satisfaction from working as a health manager and 87% believed their work was recognized. The following variables presented significant association with better quality of life: housing, educational background, health conditions, satisfaction as a manager and recognition. Among the 199 participants, 158 reported to have one or more health changes. Regarding professional daily practice as a manager, more than half of the sample was in towns with up to 20,000 inhabitants and worked more than 8 hours a day.

Conclusion: As a conclusion, health managers of the state of São Paulo present general sufficient quality of life.

Keywords: quality of life, health manager, unified health system, job satisfaction

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Introduction

Quality of life has been a subject of growing interest in Brazil and internationally, both in the field of public health and public policies, which can be observed through production references of knowledge and research.^{1–5} Conceptually, quality of life can be understood as the individuals' perception of their position in life, in the context of culture and value systems in which they live considering their goals, expectations, standards and concerns.⁶

Thus, we notice that quality of life is associated with a multidimensional character and can be divided into four dimensions:—Physical: perception of individuals about their physical condition;—psychological: individuals' perception about their affective and cognitive condition;—social relationships: perception of individuals about social relationships and social roles adopted in life;—environment: the individuals' perception on various aspects related to the environment where they live.⁷

In the second half of the 20th century, with the purpose of improving individuals' working conditions and, consequently, to improve their performance for companies, the quality of life at work movement emerged. The damage caused to health, resulting from occupational stress, has been producing studies that aim to improve the quality of life of workers through prevention and health promotion, so that four dimensions that influence quality of life at work were suggested, which are: 1. Political dimension: represented by the concept of job security. 2. Economic dimension: represented by wage equity. 3. Psychological dimension: represented by the self-fulfillment concept. 4. Sociological dimension: represented by participation of the professional in the whole work process, executing and assuming responsibilities in the team.

The strengthening of the health sector in Brazil created new demands for generic and specialized development of health administration technologies.¹¹ Municipal health managers are responsible for a set of functions and procedures, such as: decisions, action planning, financial and administrative management, to manage conflicts generated by employees, institutions and users.^{12,13} We can say the work schedules of these professionals have no simple matters, in addition to existence of a set of facts that can be understood as conflicts.¹² Frequently, the manager feels pressure to meet expectations, demands and challenges of the Unified Health System (SUS) satisfactorily, which leads to various stressing factors.

We understand that health managers' job is also very challenging, and its association with risk factors may lead to negative impacts on quality of life¹⁴ and the quality of services offered by the Unified Health System depends on the fact that these professionals understand, want and are engaged in the work project of the institution, in order to be an active and integrated part of it. However, daily life situations in the workplace show that there are obstacles of several kinds that cross relationships, preventing employees from cooperating with the institution for which they work, creating situations that may lead these professionals to act oppositely to the System normative guidelines. 14,15

Obviously, this creates difficulties for the institution and for patients who depend on it. Therefore, identifying variables that influence appearance of stress and illness in professionals such as workload excess, pressure from patients and civil servants and even from the leadership, dissatisfaction and lack of recognition for their work, is crucial for planning actions that promote appropriate means to preserve the health of these professionals. ^{14,15} Furthermore, despite the vast literature about quality of life, there are no studies





on this subject related to health public managers, which stresses the originality and relevance of this study.

Methods

Ethical aspects

This research was approved by a local Research Ethics Committee, under the protocol number 059/2013.

Characterization of the study, development location and sample

Analytical, cross-sectional and exploratory study with quantitative methodology, based on questionnaires, involving health municipal public managers from the state of Sao Paulo in Brazil. The state of Sao Paulo has 645 municipalities, all of which have a health public manager and among these municipalities, 403 have up to 20,000 inhabitants, 167 have from 20,001 to 100,000 inhabitants, 36 have from 100,001 to 200,000 inhabitants, and 39 have over 200,000 inhabitants. All health public managers of the state of Sao Paulo in activity during the research development were contacted through electronic message (E-mail), whose addresses were provided by the Council of Municipal Health Secretaries of the state of São Paulo "Dr. Sebastiao de Moraes" (COSEMS), and invited to participate in the research. Among the public managers who agreed to participate in the study (N=203), those who answered incorrectly or incompletely any of the questionnaires used for data collection (N=4) were excluded.

Instruments used for data collection

When accepting the invitation to participate in the research, managers got access to a link that referred to the Informed Consent Form and should agree to the terms of this document before beginning to fill out the questionnaires for data collection. All questionnaires described below were answered online. Demographic data: We used a structured questionnaire composed of ten questions about gender, age, marital status, number of children, number of inhabitants of the municipality where they work, another professional activity besides public administration, daily working hours, health problems, job satisfaction degree as a manager and perception about recognition of their work. Socioeconomic data: the second instrument, which investigated information about the socioeconomic characteristics of the manager, was formed by five questions. 16 Topics covered by this instrument were the following: monthly family income, number of people residing in the same house, educational background, type of residence and occupation. Level of quality of life: We used the short version of the instrument World Health Organization Quality of life (WHOQol-BREF), which allows evaluation of quality of life of adult populations and which was validated for Portuguese language by Fleck et al.¹⁷ The WHOQol-BREF consists of 26 questions, being 2 general questions and 24 representing facets that form the original instrument and are related to four domains: physical, psychological, environmental and social relationships.

Analyzed variables and data analysis

The dependent variable investigated was the quality of life level, dichotomized by the median and classified into worse and better, associated with the following independent variables:

a. Gender-Male and Female

- b. Age group—Dichotomized by the median and presented as: 43 years old or younger and older than 43 years old.
- c. Marital status-Single, Married, Divorced or Widowed.
- d. Number of children-Dichotomized by the median and presented as: up to two children and three or more children.
- e. Number of people in the house–Dichotomized by the median and presented as: up to three people and four or more people.
- f. Housing-Own paid/financed residence, Rented/Conceded residence
- g. Educational background–Unfinished higher education and completed higher education
- h. Occupation–Healthcare occupations and similar, other occupations.
- i. Family income–Dichotomized by the median and presented as: lower than or equal to R\$ 4,665, higher than R\$ 4,666.
- j. Health conditions-No problem, with one or more problems
- k. Number of inhabitants of the municipality–Dichotomized by the median and presented as: up to 20,000 inhabitants and over 20,000 inhabitants.
- 1. Works in another activity-Yes, No.
- m. Time as public manager-Dichotomized by the median and presented as: up to a year, over a year.
- n. Working hours-up to 8 hours per day, Over 8 hours per day.
- Satisfaction with public manager position—Completely satisfied, partially satisfied, Unsatisfied.
- p. Feels recognized for their work-Totally, Partially, No.

Data obtained were automatically turned into spreadsheets on Microsoft Excel and analyses were processed using the Stata software version 12.0. Descriptive statistical analysis was performed through frequency calculation. For statistical analysis, the Chi-square test and Fisher's Exact Test were applied.

Results

Response rate was 31.5%, that is, out of the 645 invited managers, 203 agreed to participate. In the final sample (199), after exclusion of four participants due to incomplete or incorrect filling of some data collection instruments, there was a higher representation of managers from towns with up to 20,000 inhabitants (59.8%). However, there was a bigger response rate of managers from towns with a population between 20,000 and 100,000 (35.9%).

Table 1 presents information about socioeconomic and demographic data of participants. Most participants were females (61.3%). More than half of the samples (52.3%) were in the age group between 35 and 50, being 43 the average age. Most of them were married (65.3%) and had children (74.9%). Income of 60.8% of participants was higher than R\$ 4,666 and 81.4% lived in an own residence, with up to 4 people (92.5%). The majority (86.4%) reported completed higher education as educational background and 66.3% were healthcare professionals.

Table 1 Socioeconomic and demographic characterization of the sample of health public administrators from the state of Sao Paulo. Year 2013 (n=199)

Analyzed veriables	Sam	Sample	
Analyzed variables	N	%	
Gender			
Male	77	38.7	
Female	122	61.3	
Age group			
Below 35 years old	46	23.1	
From 35 to 50 years old	104	52.3	
Over 50 years old	49	24.6	
Marital status			
Married	130	65.3	
Single	39	19.6	
Divorced	26	13.1	
Widowed	4	2	
Number of children			
None	50	25.1	
One	48	24.1	
Two	71	35.7	
Three	22	11.1	
Four or more	8	4	
Educational background			
Unfinished Higher Education	26	13.6	
Completed Higher Education	173	86.4	
Occupation			
Healthcare occupations and similar	132	66.3	
Other occupations	67	33.7	
Health conditions			
No problem	40	20.1	
With one or more problems	159	79.9	
Household income			
From R\$ 1,245 to R\$ 3,110	33	16.6	
From R\$ 3,111 to R\$ 4,665	45	22.6	
From R\$ 4,666 to R\$ 6,220	37	18.6	
Higher than R\$ 6,221	84	42.2	
Number of people in the house			
Up to two people	60	30.1	

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Australianistica	Sample		
Analyzed variables		%	
Four people	62	31.2	
Five people	9	4.5	
Six people	6	3	
Type of residence			
Own paid residence	120	60.3	
Own financed residence	42	21.1	
Residence conceded by parents or relatives	10	5	
Rented/Conceded residence	27	13.6	
Works in another activity			
Yes	69	34.7	
No	130	65.3	

Regarding professional daily practice as managers, more than half (59.8%) were in towns with up to 20,000 inhabitants and were working as managers for less than a year (53.3%), and worked more than 8 hours a day. The majority (97%) reported feeling partially or completely satisfied with working as a health public manager and 87% thought their work was partially or fully recognized (Table 2).

 $\textbf{Table 2} \ \ \text{Characterization of the sample of health public administrator's work from the state of Sao}$

And of edition	Sample		
Analyzed variables	N	%	
Number of inhabitants of the mu	unicipality	,	
Up to 20,000	119	59.8	
From 20,001 to 100,000	60	30.2	
From 100,000 to 200,000	10	5	
Over 200,000	10	5	
Time as a public administrator			
Less than a year	106	53.3	
From 2 to 4 years	34	17.1	
From 5 to 10 years	36	18.1	
From 11 to 15 years	14	7	
From 16 to 20 years	6	3	
Over 20 years	3	1.5	
Working hours			
Up to 8 hours a day	59	29.7	
From over 8 to 10 hours a day	61	30.6	
From over 10 to 12 hours a day	34	17.1	

Table Continued

Analyzad variables	Sam	Sample		
Analyzed variables	N	%		
Satisfaction				
Completely satisfied	43	21.6		
Partially satisfied	150	75.4		
Dissatisfied	6	3		
Recognition				
Totally	28	14.1		
Partially	145	72.9		
No	26	13		

In addition, the majority of the sample (79.9%) reported they had one or more health changes (Table 3). Among participants who reported a change in health (n=158), one-third claimed to feel stressed or anxious, and a prevalence higher than 14% for hypertension and back problems was found (Table 4). Another important fact is that 55.3% out of the total sample (n=199), i.e., 110 public managers reported stress/anxiety. When considering only the sample of public managers who had health issues (n=158), this index rises to 69.6% (110 out of 158). There were three pregnant women among the managers, and two of them reported to feel stress and anxiety. It should be noted that none of the public managers gave information about use of alcohol and drugs.

Table 3 Health conditions presented by health public administrators from the state of São Paulo Year 2013 (n=158)

Health condition	N	%
Stress/anxiety	110	34.6
Depression	14	4.4
Hypertension	49	15.4
Cardiopathy	3	1
Diabetes	14	4.4
Spine problems	46	14.5
Arthritis or rheumatism	10	3.1
Ulcers or gastritis	29	9.1
Emphysema or bronchitis	7	2.2
Skin disease	12	3.8
Cataract or visual loss	9	2.8
Voice problems	8	2.5
Hearing loss	5	1.6
Pregnant women	2	0.6
Problems with alcohol or drugs	0	0
Total	318	100

Table 4 Factors associated with quality of life of health public administrators from the state of São Paulo. Year 2013 (n=199)

	Worse		Better		
	≤ 65.5		> 65.5		
Variables					
	(n=100;		(n=99;		
	50.2%)		49.8%)		
	N	%	N	%	P value
Gender					0.097
Male	33	42.9	44	57.1	
Female	67	54.9	55	45.1	
Age group					0.523
≤ 43	48	48	52	52	
> 43	52	52.5	47	47.5	
Marital status					0.129
Single	63	48.5	67	51.5	
Married	17	43.6	22	56.4	
Divorced or widowed	20	66.7	10	33.3	
Number of children					0.223
Up to two children	88	52.1	81	47.9	
Three or more children	12	40	18	60	
Number of people in	the house				0.622
Up to three people	63	51.6	59	48.4	
Four or more people	37	48	40	52	
Type of residence					0.02
Own paid/financed residence	75	46.3	87	53.7	
Rented/Conceded residence	25	67.6	12	32.4	
Educational backgrou	nd:				0.021
Unfinished Higher Education	8	29.6	19	70.4	
Higher education degree	92	53.5	80	46.5	
Occupation					0.398

	Quality of life
	_

Table Continued

		Quali	ty of life	
	Worse		Better	
Healthcare occupations and similar	63	48.1	68	51.9
Other occupations	37	54.4	31	45.6
Household income				0.815
≤ R\$ 4,665	40	51.3	38	48.7
> R\$ 4,666	60	49.6	61	50.4
Health conditions				0.001
No problem	11	27.5	29	72.5
With one or more problems	89	56	70	44
Number of inhabitant	s of the m	nunicipa	lity	0.728
≤ 20,000	61	51.3	58	48.7
> 20,000	39	48.8	41	51.2
Works in another acti	ivity			0.618
Yes	33	47.8	36	52.2
No	67	51.5	63	48.5
Time as a public admi	inistrator			0.039
≤ I year	46	43.4	60	56.6
> I year	54	58.1	39	41.9
Working hours				0.149
Up to 8 hours a day	25	42.4	34	57.6
Up to 8 hours a day	75	53.6	65	46.4
Satisfaction as public	administr	ator		-0.000 (0.000)
Completely satisfied	П	25.6	32	74.4
Partially satisfied	83	55.3	67	44.7
Dissatisfied	6	100	0	0
Recognition				0.000*
Totally	9	32. I	19	67.9
Partially	68	46.9	77	53.1
No	23	88.5	3	11.5

Statistical analysis: Chi-square; except * where Fisher's Exact Test was carried out.

Regarding general quality of life, more than half (50.2%) perceived their own quality of life as bad. Associations between quality of life level and the several independent variables were investigated, as presented on (Table 4), and the best quality of life was observed among the public managers who had their own residence (p=0.02), had at least unfinished higher education level (p=0.021), were at the administration for a year or less (p=0.039), felt satisfied as public managers (p=0.00) and perceived recognition for their performance (p=0.00).

Observing data on quality of life domains, presented on (Table 5), we notice that the physical domain presented the highest average score, followed by the social relationships and psychological domains. The domain that presented the lowest average score was the relative to the environment. Regarding the median, we notice that the psychological and the environment domains presented equal values. The domain related to the environment also presented the lowest median.

Table 5 Median, mean score, standard deviation, minimum and maximum values of the WHOQOL-BREF domains and General Quality of Life (GQoL) of health public administrators from the state of Sso Paulo. Year 2013 (n=199)

Domains	Media	Mean	Standard	Mini- mum	Maxi- mum
GQoL	n	Score	deviation	value	value
Physical	71.4	68.7	13.4	25	100
Psychological	66.7	64.2	14.3	20.8	100
Social	66.7	65.2	17	25	100
Relationships					
Environment	62.5	60.4	12.7	15.6	96.9
GQoL	65.3	64.6	11.8	33.7	92.5

Discussion

This study adds important information concerning quality of life of municipal health public managers. Since there is no other studies related specifically to these professionals, the data obtained in this research can be compared to equivalent studies with other professionals, such as nurses, doctors and university professors.²⁻⁵ Therefore, this is an original study.

Many social aspects linked to work in general contribute to raise morbidity load in workers, among which stands out the following: increasing competitiveness, intensity of human relationships in the work scope, increase of psychological violence in workplaces and pressure that comes from economic features of globalization. 18 In the same way as other healthcare professionals, public managers are also exposed to factors that may affect their health and compromise their work performance. Therefore, looking for subsidies to understand and control risk variables to professional exhaustion allows further improvement of care offered to health public managers and SUS patients as well.19

Regarding general characteristics of the sample, this study found that over half perceived their quality of life as bad, similar to the findings of Rodriguez et al.²⁰ which evaluated primary care physicians and found, in addition to the perception of low quality of life, reports of symptoms, such as lack of time, oppressive feeling and negative views at work with pessimistic ideas about the future.

Municipal health public managers mostly work in the combat line, which requires flexibility and ability to manage conflicts, having on one side patients and their health demands and, on the other, their superiors (in this case, mayors), with their budget limitations and administrative strategies that may be not consonant with perspectives of managers. This work dynamic may have contributed to the fact that one third of the sample reported stress or anxiety as a health problem. Stress affects each individual in a unique way and causes different responses, being some work environments propitious to its high-level development, especially if a professional does not have a set of appropriate confrontation strategies, which causes an imbalance between work demands and execution capabilities of these demands.²¹

An important variable when investigating risk factors to quality of life concerns daily working hours. In a study that evaluated quality of life in primary healthcare professionals in Spain, Rodriguez et al.²⁰ found low perceived quality of life so that working hours (from medium to high) contributed significantly to this perception.Gueiros²² found a similar situation among teachers and found that the higher the working hours, the higher stress levels will be. Studying specifically working stress, other researchers have shown that work overload may increase chances of developing stress.^{23,24}

At first, these results seem to conflict with the findings of this study, in which more than two-thirds of the sample claimed to work more than eight hours a day, nevertheless, this workload was not significant in perception of quality of life. However, it must be considered that over half respondents were in the administrating position for less than a year, that is, it is possible that the short time in the public administration had not allowed them to feel the heaviness of working hours yet. Public managers still beginning their activities formed much of the sample since data collection was held months after the new mayors took office, which were elected in the municipal election closer to this research. It is known that, by taking office of a municipality, mayors often choose new health managers, as it is a position of trust of governments.

This fact may have influenced general levels of quality of life, once among these new managers; there was a better quality of life. We infer that time devoted to administration could result in worse quality of life due to accumulation of responsibilities and the frequent need to be faced with conflicting situations. In addition, new work challenges tend to be stimulating for some professionals, which may explain better quality of life among these public managers in early activity.²⁵

A public manager collaborates directly with development and management of strategies and actions and, this participation along with the exercise of their originality and ability to overcome obstacles, can make work more pleasant.²⁶ The bigger the commitment and autonomy in the development of activities, the higher the professional achievement and satisfaction levels.²⁷ These findings corroborate the results found in this study, in which a tiny portion of the sample demonstrated dissatisfaction with work. The highest degree of satisfaction reported was significantly associated with better quality of life. Teles et al.²⁸ also reported that, when unsatisfied with their jobs, workers present a higher probability to assess their quality of life negatively.

However, the job is not always source of professional fulfillment and can often generate dissatisfaction and exhaustion problems.²⁹ Enjoying what you do is one of the main reasons of job satisfaction pointed out by primary healthcare professionals. Despite that, satisfaction degree can be limited by difficulties found in the work routine, such as inability to solve patients' problems, which can lead to frustration and dissatisfaction.³⁰

The majority of respondents in this study reported having a health change, which was significantly associated with a worse quality of life. Similarly, the study by Teles et al.²⁸ with 760 primary healthcare professionals, identified that those who perceived their own health as compromised, also evaluated negatively their quality of life, and there was also a higher prevalence of poor quality of life among workers over committed to work. It can be inferred that work organization can influence public managers' health, whose commitment degree can become excessive, especially if there is search for approval and recognition as underlying motivation, making self-control on daily tasks difficult, such as taking care of their own health. This situation can lead to health issues that go beyond stress and psychological damage and also involve cardiovascular problems.²⁸

Thus, in general, we can say that municipal health public managers struggle directly with dilemmas that require agility and decision-making ability, both for basic needs and for increasing healthcare complexity that people demand. Therefore, accumulation of functions by these professionals and pressure to meet demand and improve quality of services offered, can generate a work overload, leading to health changes, dissatisfaction and attitudes considered inappropriate in a healthcare assistance context, such as difficulties in working in teams, respecting knowledge of other professionals and working in an empathetic way with patients, resulting in poor quality of services offered. Through practices of prevention and health promotion, aimed at improving quality of life in the workplace, it is possible to control situations that interfere with work quality and increase professional interest in participating in the work process, in the execution of actions and in their responsibility for the team.¹⁰

In 2015, Mialhe³¹ explained that, after nearly three decades since Ottawa's Charter publication, managers, professionals and government still use the expression "Health Promotion" the way it is more convenient for them. Thus, there is a limited definition which, according to Tanhill, ³² is about activities that help people improve their unhealthy or risk behaviors, usually through traditional educational activities that disregard macro, determining and conditioning aspects of behaviors. However, Mialhe³¹ also points out a new perspective, which is ecological and wide, based on educational activities aimed at empowerment of individuals to deal with determinants of their own health as legal environmental standards. In this sense, the aim is making healthy choices the easiest ones.

In this study, recognition for their roles as managers influenced quality of life. A similar result was found by Munoz-Seco et al.³³ who evaluated quality of life in primary healthcare professionals and verified that general organizational environment influences general quality of life at work, especially in the sense of motivating workers and make them notice management support. These authors reported that teams that made a better evaluation of recognition received were those that presented a higher quality of life, higher motivation and lower perception of demands.³³

Better quality of life among public managers who had their own residences was observed, nevertheless, there was no significant relation between family income and quality of life. These results differ from those presented by Kim & Park⁴ who, when assessing impact of socioeconomic status and social class on quality of life of people in general, found that individuals with low family income and low class had a higher probability of presenting low quality of life.

Educational level may be positively associated with someone's

quality of life.⁴ However, in this study; respondents with unfinished higher education were the ones who presented a better quality of life, although most participants informed completed higher education as educational background. The findings of this study can be understood by analyzing the studies by Benevides-Pereira,²⁷ and Carlotto³⁴ which results pointed out that the higher the educational level, the higher the stress levels and the sense of responsibility, which may influence quality of life. Professionals with an excessive involvement degree with work tend to exaggerate in their effort, which leads to excessive tension for underestimating the challenge and increase of hours dedicated to labor issues' resolutions, leading consequently to fatigue.²⁸

From the results of this study, conduction of qualitative research may be suggested to explore and evaluate some health public managers' feelings related to the work situation. In addition, replication of data collection on the same sample among public managers who are still active, after a few years in the administration, may enlighten some discussions concerning working time, satisfaction degree and perceived recognition, and association of such variables with quality of life. Moreover, deeper studies related to quality of life among the municipal health public managers from other regions of the country would be relevant as well, taking into consideration characteristics of the administration model of each region as a variable potentially associated with quality of life.

Therefore, this study can contribute significantly to the organization of public health service, whereas a low quality of life at work combined with recurrent health problems may lead to absenteeism and/or low productivity, which consequently would take greater onus to SUS, given the importance and specificity of the municipal health public manager function.

Conclusion

Based on the results, we can conclude that health public managers from the state of Sao Paulo, in general present a bad perception about their quality of life. This study demonstrated that perceived satisfaction, as well as recognition for their work, reflects significantly on the perception of quality of life.

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Conflict of interest

The authors declared that there is no conflict of interest.

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