Relationship between the quality of life and food consumption of teachers from private network

Relação entre a qualidade de vida e o consumo alimentar de professores de rede privada

Relación entre calidad de vida y consumo de alimentos de profesores de la red privada

Keliane Galdino da Silva¹, Bruna Andrade de Freitas², Gislene Kauffmann Furgêncio³, Leslie Andrews Portes⁴, Nyvian Alexandre Kutz⁵, Marcia Maria Hernandez de Abreu de Oliveira Salgueiro⁶

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ABSTRACT

Objective: To relate the quality of life (QOL) and food consumption (FC) of teachers from private network. 
Methods: Cross-sectional study that evaluated QOL, FC and economic classes. Results: Regarding the QOL of 107 teachers, 64.5% were classified as good and 19.6% very good, 70.1% belongs to the class C and 64.5% showed satisfactory FC. The feed scores (FS) were significantly correlated with the QOL, physical, psychological, social and environmental domains, and with overall QOL. The higher the FS, the better the physical, psychological and environmental domains. Conclusion: The higher FS, the better QOL of teachers. Thus, a healthy diet can contribute to health promotion, reflecting in a better QOL.

Descriptors: Health promotion; quality of life; food habits; teaching staff.

RESUMO

Objetivo: Relacionar a qualidade de vida e o consumo alimentar de professores de rede privada. Métodos: Estudo transversal que avaliou a qualidade de vida, o consumo alimentar e a classe econômica. Resultados: Em relação à qualidade de vida dos 107 professores, 64,5% foram classificados como boa e 19,6% como muito boa, 70,1% pertencem à classe C e 64,5% mostraram consumo alimentar satisfatório. Os escores de alimentação correlacionaram-se significativamente com os domínios da qualidade de vida, físico, psicológico, social e ambiental, e com a qualidade de vida geral. Quanto maior o escore de alimentação nos quartis, melhor os domínios físico, psicológico e ambiental.

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INTRODUCTION

Quality of life (QOL), elaborated by the World Health Organization (WHO) as the individual’s perception of their position in life in the context of culture and value systems in which they live, and in relation to their goals, expectations, standards and concerns, has been a subject much discussed today. Thus, QOL is addressed in a subjective and multidimensional way, and includes both positive and negative aspects.

Given that the health condition of teachers is linked to their working conditions, the latter can contribute or not to a favorable quality of life. The relationship between health and work has been investigated due to the mutual influence between them. Grievances related to the health of teachers have been identified, increasingly associated with working conditions. These professionals perceived that the benefits of career are below the level of relevance and demands of the profession. Dissatisfaction with working conditions is reflected in the decrease of their health. In addition, social support at school seems to make the most favorable environmental conditions to work.

In this context, Santos and Marques showed that most teachers assessed their health condition as good. However, despite the positive data, unfavorable aspects were found in the lifestyle of these teachers, showing a difficulty in the perception of teachers related to the perception of general health.

Studies that evaluate factors related to the working conditions of primary school teachers and their contribution to the risk of Chronic Noncommunicable Diseases (CNCDs), such as overweight and obesity, since teachers, in general, perform physical tasks of low intensity, are still unknown, therefore they are classified as sedentary. However, it is known that these factors will, in time, interfere with the ability to work, damaging the quality of life and professional performance. This is shown by the high prevalence of poor eating habits, alcohol consumption and physical inactivity observed among teachers.

The inclusion of women in the labor market encouraged the production of pre-prepared foods, since she did not have enough time to cook for the family anymore. According to the study in the urban center, the profession exercised outside the home was seen positively by women, while household chores, such as cooking, were seen as less important activities, and because of that, the practical and traditional knowledge of the production process of food in the home was lost. At the present time, the reserved cooking time depends on to whom it is intended to prepare, this time is more valuable when the food preparations are intended for the family and less important when consumption is just for yourself.

The dietary pattern is one of the risk or protective factors for CNCDs. Among the risk factors for CNCDs, there are: insufficient physical activity, smoking, excessive alcohol consumption, inadequate consumption of fruit and vegetables, overweight and obesity, altered levels of blood pressure and hyperglycemia. Thus, a dietary pattern with prevalence of risk factors for CNCDs can affect the quality of life.

Thus, the quality of life is converted into a complex general indicator, which seeks to estimate the ability to have or establish a life with decent conditions.

Therefore, the objective was to relate the quality of life and the teachers’ food consumption of a private educational network from the south side of São Paulo.

METHOD

This is a descriptive cross-sectional study with a quantitative approach, carried out in January 2015. The study was approved by the Research Ethics Committee of the University Center of São Paulo under Protocol number 827482 on 09.10.2014 and by the Regional Coordination of the private educational network of São Paulo.

400 primary school teachers, of both sexes, were invited during an educational meeting. The sample consisted of 116 teachers who agreed to participate, distributed in 13 schools. They excluded 9 individuals who did not fully complete the questionnaire.

A suitable place for the collection of data was made available, ensuring the privacy of the participants.

The instrument used for data collection was composed of two self-applicable questionnaires, the first addressing the socio-demographic aspects, in which the work variables are included, and the second covering health aspects (quality of life and food consumption). The evaluation of the data was performed according to the guidelines of the authors.

The sociodemographic variables were age (years), gender (male or female), marital status (married, single, widowed, separated or divorced) and economy class. The information collected for the economic classification was related to education and the presence of consumer goods in the household. Data were analyzed according to the Brazilian Criteria for Economic Classification, which assigns points for each item according to your home feature, classifying economic classes as A1, A2, B1, B2, C1, C2, D and E. The work-related aspects were: educational level,
teaching experience, hours per week, number of shifts and schools. And health variables were: quality of life and food consumption.

The perception of quality of life was assessed by the WHOQOL-BREF questionnaire, instrument used to quantitatively measure the quality of life. This is a dependent variable on subjective nature, since it is based on the perception of people about various aspects of their lives. The WHOQOL, developed by a multi-center research organized by the WHO Quality of Life Group, resulted in the long version of the instrument adapted and validated in Brazil by researchers at the Federal University of Rio Grande do Sul. The translation into Portuguese was made by retro translation and the average and standard deviation of the words were estimated to obtain the most related to the original version in English.

Aiming to facilitate the application in the face of large samples, a more synthetic instrument was drawn, the WHOQOL-100, which was the first instrument created by the multi-center study, consisting of 100 questions. For the construction of the WHOQOL-BREF, the short version of the larger survey, the items of the long version were selected according to scope and psychometric performance that were later examined by a panel of experts as to their representative capacity and conceptual relevance and psychometric. The data that originated the instrument were extracted from field tests of 20 centers and 18 countries. The WHOQOL-BREF has strong correlations with the original test (Brazilian WHOQOL-100) and the short version of the multi-center study.

In the validation process in Brazil, the Portuguese version was applied in a field test with the same criteria and composition of the sample, which evaluated its psychometric properties. The authors demonstrated in this study that the WHOQOL-BREF, in its application in Brazil, showed good internal consistency. WHOQOL-BREF has discriminant validity (expect for Social Affairs field), competitors (significant correlation coefficients between themselves and in relation to the BHS and BDI inventories) and satisfaction criterion, in which, except for Social Affairs, the other domains were part of model using multiple linear regression and explained 44% of the variance.

The short version has 26 questions in total, with 5 response options: 24 facets (one question for each facet) about 4 life domains: physical, psychological, social affairs and environment; and 2 separate questions of a more general character, which directly question the assessment of quality of life and personal satisfaction with health status. Another QOL measurement component is the measure of quality of life in general, obtained by averaging the scores in the first four domains. It uses scores of 0 to 100, positive and reverse, and Likert scale of four types: intensity, capacity, frequency and evaluation. It is self-explanatory and refers to the last two weeks.

The physical domain addresses issues such as the presence of impeding physical pain, need for medical treatment, being able to work and to perform everyday tasks, enough energy to such functionality, autonomy and sleep. The psychological domain takes into account aspects related to the meaning of life, the emotional dimension, mnemonic capacity and concentration, satisfaction with itself, the presence of positive and negative feelings, and spirituality. Social Affairs consider satisfaction with the personal relationships, sex life and support of friends. Environment domain addresses safety, health, physical environment, information available, financial resources, leisure activity opportunities, satisfaction with the conditions of the place of residence, with access to health services and means of transport.

Dietary intake was assessed by the questionnaire “How’s your food?”, developed and validated by the Ministry of Health to analyze the quality of the diet of population groups. This consists of 18 multiple-choice questions, with aspects related to food consumption. The questionnaire was applied and evaluated according to guidelines of the authors. Thus, for the assessment of food consumption, a specific score is assigned (0-4), referring to the answer of each question. The total score revealed if the individual needed to review, pay attention or continue their eating habits as track points established by the Ministry of Health. As the Ministry of Health does not rate the food intake as adequate or inadequate, it was adopted the standard classification used by food Franzoni et al., which considers unsatisfactory - up to 28 points; satisfactory - 29-42 points; or great - above 43 points.

The results were submitted to the Pearson correlation test and one-way ANOVA test comparing the groups of lower food scores with higher scores. Differences were considered significant at the level of p <0.05. After analyzing the data, participants received an individual written feedback to the classification of their nutritional status and general quality of life.

RESULTS AND DISCUSSION

It were evaluated 107 teachers from 13 schools, aged between 23 and 58 years (38.1 ± 8.7 years), 83 females (78%) and 24 male (22%).

Regarding quality of life, 16% of teachers were classified as low or regular, with 64% being good and 20% very good.

As for the economic classification, the majority (70.1%) of teachers belongs to the class C (Figure 1).

Figure 1 - Distribution of teachers of private schools according to economic class. São Paulo, 2015.

Source: Authors
According to the score of the questionnaire “How’s your food?”\textsuperscript{10}, only 3.7% of teachers had unsatisfactory food consumption, while most showed satisfactory (70.1%) and good (26.2%) consumption (Figure 2).

**Figure 2** – Distribution of food consumption of private school teachers according to the score of the questionnaire “How’s your food?”. São Paulo, 2015.

Source: Authors

Evaluating the results of eating habits in Table 1, it was observed that 7.5% (n = 8) of teachers reported not to eat fruits or fruit juice daily, 24.3% (n = 26) consume a fruit, 35.5% (n = 38) consume two and 32.7% (n = 35) consume the amount of fruit recommended by the Food Guide for the Brazilian Population\textsuperscript{12}.

**Table 1** – Characterization of the sample according to eating habits of private schools teachers. São Paulo, 2015.

<table>
<thead>
<tr>
<th>Variables</th>
<th>Score</th>
<th>Teachers</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Amount of consumed fruits/day</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>I do not eat every day</td>
<td>0</td>
<td>8 7.5</td>
</tr>
<tr>
<td>One unit</td>
<td>1</td>
<td>26 24.3</td>
</tr>
<tr>
<td>Two units</td>
<td>2</td>
<td>38 35.5</td>
</tr>
<tr>
<td>Three units or more</td>
<td>3</td>
<td>35 32.7</td>
</tr>
<tr>
<td>Total</td>
<td>107</td>
<td>100</td>
</tr>
<tr>
<td><strong>Amount of vegetables consumed/day</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>I do not eat every day</td>
<td>0</td>
<td>12 11.2</td>
</tr>
<tr>
<td>3 tablespoons or less</td>
<td>1</td>
<td>37 34.6</td>
</tr>
<tr>
<td>4-5 tablespoons</td>
<td>2</td>
<td>36 33.6</td>
</tr>
<tr>
<td>6 to 7 tablespoons</td>
<td>3</td>
<td>12 11.2</td>
</tr>
<tr>
<td>8 or more tablespoons</td>
<td>4</td>
<td>10 9.3</td>
</tr>
<tr>
<td>Total</td>
<td>107</td>
<td>100</td>
</tr>
<tr>
<td><strong>Number of legumes and beans consumed/day</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Do not consume</td>
<td>0</td>
<td>3 2.8</td>
</tr>
<tr>
<td>I consume less than 5 times/week</td>
<td>1</td>
<td>24 22.4</td>
</tr>
<tr>
<td>1 tablespoon or less/day</td>
<td>2</td>
<td>14 13.1</td>
</tr>
<tr>
<td>2 or more tablespoons/day</td>
<td>3</td>
<td>66 61.7</td>
</tr>
<tr>
<td>Total</td>
<td>107</td>
<td>100</td>
</tr>
<tr>
<td><strong>Average consumption of servings of grain / day</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Zero servings</td>
<td>0</td>
<td>1 0.9</td>
</tr>
<tr>
<td>From 1 to 2.9 servings</td>
<td>1</td>
<td>52 48.6</td>
</tr>
<tr>
<td>From 3 to 4.4 servings</td>
<td>2</td>
<td>37 34.6</td>
</tr>
<tr>
<td>From 4.5 to 7.5 servings</td>
<td>3</td>
<td>16 15.0</td>
</tr>
</tbody>
</table>

**Table 1** – Characterization of the sample according to eating habits of private schools teachers. São Paulo, 2015.
Regarding the general consumption of teachers, it is important to note that 7.5% do not consume fruit every day, 11.2% do not eat vegetables every day, 15.9% consume less than 1 tablespoon of bean soup a day or do not consume, 6.5% do not remove the visible fat from meat, 9.3% add salt to preparations after it's ready and 10.3% consume less than 4 cups of water a day. About the habit of reading the information on food labels, 29% answered not reading it or hardly ever read.

Regarding the habit of daily meals (breakfast, morning snack, lunch, afternoon snack or coffee, dinner or evening coffee and snack before bedtime), 76.6% have breakfast, 48.6% the morning snack, 93.5% lunch, 47.7% the afternoon snack, 78.5% make dinner, and 20.6% make supper.

The evaluation of the sample and the practice of physical activity can be seen in Table 2, in which 48.6% do not exercise.

Table 2 - Characterization of the sample according to the physical activity of private schools teachers - São Paulo - 2015.

<table>
<thead>
<tr>
<th>Variables</th>
<th>Score</th>
<th>Teachers</th>
</tr>
</thead>
<tbody>
<tr>
<td>Practice physical activity</td>
<td></td>
<td></td>
</tr>
<tr>
<td>No</td>
<td>0</td>
<td>52 48.6</td>
</tr>
<tr>
<td>From 2 to 4 times/week</td>
<td>2</td>
<td>25 23.4</td>
</tr>
<tr>
<td>Yes</td>
<td>3</td>
<td>30 28.0</td>
</tr>
<tr>
<td>Total</td>
<td>107</td>
<td>100.0</td>
</tr>
</tbody>
</table>

Source: Authors

The food scores were significantly correlated with the domains of QOL and overall QOL: physical (r = 0.22, p = 0.024), psychological (r = 0.29, p = 0.003), social (r = 0.20, p = 0.042), environment (r = 0.28, p = 0.004) and overall (r = 0.30, p = 0.002), indicating a weak correlation. Regarding food quartiles (Figures 1 and 2), the greater the food score, the better the physical (p = 0.049), psychological (p = 0.011) and environmental (p = 0.029) domains, but not for the social domain (p = 0.225). These domains grouped resulted in a better overall QOL due to food quality (p = 0.009).

This study shows the predominance of the female audience as primary school teachers. It is observed that the woman was the primary school teaching and turning this occupation into a predominantly female profession, in São Paulo, since the mid-twentieth century. In a comparative study on the male teacher working in primary public school in Rio de Janeiro - Brazil and in Aveiro - Portugal, it was noted that the percentage of female primary teachers is very high and male, very low. However, man can choose this activity by taste and succeed. Another study shows that the teacher's job is different from the worker's gender, to the extent that men enter the teaching profession by public tender and women go through teacher's contracts of experience to work in public or private schools in lower series/steps that could act.

In this sample, the majority of teachers were classified as good and very good QOL. According Meira et al., teachers need assistance for their health and family with public policies aimed at disease prevention. They consider that the teaching profession has a high demand, coupled with discipline in the classroom and professional devaluation, contributing to the emergence of musculoskeletal and emotional disorders. Multiple factors of work and living habits have repercussions on teaching health, interfering with their QOL.

Pereira et al., in a study of teachers of public schools, revealed that teachers with higher weekly working hours and those of the state schools had lower QOL levels in all investigated areas. In another study by Pereira et al., when analyzing some associations between the perception of working conditions (perceived physical environment, social environment, development and professional fulfilment, remuneration, benefits and social relevance of the work) and the QOL of basic education teachers in Florianópolis, through WHOQOL-BREF showed that the dimensions of remuneration, benefits and physical environment displayed greater dissatisfaction. More than half of teachers were dissatisfied with ergonomic issues of furniture and equipment, and the conditions of noise and temperature; 52.8% always/often had mental exhaustion and 50.1% stated they had difficulties with aggressive students. The environmental profile and working conditions explained 24.6% of the QOL assessment of the environmental domain. Perhaps the teachers of private educational system of the present study do not present as many difficulties as the public network, since the vast majority reported good and very good QOL.

As for the economic status of teachers, it is observed that the majority belongs to class C. This finding differs from the study in the municipality of Bage (RS), which found the majority of teachers (70%) belonging to the economic class B.
With regard to food consumption, data from this study show low consumption of fruits and vegetables compared to the amounts recommended by the Food Guide for the Brazilian Population which recommends, respectively, 3 servings of fruits/day and 3 servings of vegetable/day. The study of Santos and Marques corroborates the results found, as 79.6% of the teachers ate less than three servings of fruits and vegetables per day. Similar findings in relation to the consumption of fruit were observed by Gallina et al. in a survey conducted in 27 urban public schools in Chapecó (SC) with 79 teachers in the early grades of elementary school using the questionnaire “How’s your food?”, since there was low intake of fruit among the evaluated teachers. However, unlike our findings, it was found that the most teachers consumed appropriate amount of vegetables groups.

The result of the Surveillance of Risk Factors and Protection against Chronic Diseases through Phone Inquiries (VIGITEL) of the Ministry of Health, held in 2014, pointed out that 24.1% of the population consumes the recommended fruit and vegetables according to the Food Guide for the Brazilian Population.

Regarding the consumption of beans and vegetables, most teachers studied had adequate intake, unlike Gallina et al. who found that the dietary habits and practices of teachers had low intake of legumes.

Beans are the principal source of vegetable protein in the Brazilian food and, like all other legumes, beans are sources of protein, fiber, B vitamins and minerals such as iron, zinc and calcium. The high fiber content and considerable amount of calories per gram give such food a high satiety power, which avoids eating more than necessary.

In this study it was found that teachers have food consumption of cereals, roots, tubers and pasta well below the recommended. The Food Guide for the Brazilian Population recommended, as an appropriate amount for a healthy adult, the daily consumption of 6 servings of cereals, tubers and roots. The document also points out that the consumption of foods rich in complex carbohydrates (starches), such as cereals, should be, preferably, whole grains.

Regarding the consumption of meat and eggs, most consume the recommended daily amount, and approximately 1/3 of the sample consumes more than is recommended. Similar data was found by Gallina et al., who noted that 59.5% of teachers consume a lot of meat or eggs per day and 38% consume at least two servings of this group daily. Data from this study on the consumption of meat and eggs are compatible with the Brazilian dietary pattern shown by Levy et al.

Especially in this study population, the prevalence of more than 10% of non-meat consumption than recommended and in relation to the Brazilian food standard are possibly explained by the diet advocated by the religious belief in common for the sample, which recommends, as the principles of healthy life, to avoid the consumption of meat (beef, chicken and fish), coffee, black tea and other beverages containing caffeine, refined foods and chili.

The majority of the teachers prefer to remove the visible fat from meat and skin from chicken. Disposal of visible fat from meat before preparation is key to reducing the amount of saturated fat and cholesterol meal. Excessive consumption of saturated fat is related to several chronic non-communicable diseases (cardiovascular diseases, diabetes, obesity, strokes and cancer). The main dietary sources of saturated fat are egg yolk, milk and dairy products, beef, poultry skin and viscera. The VIGITEL survey conducted in 2013 showed that about one third of the adult population of the 26 Brazilian states and the Federal District declared to have the habit of consuming fatty meat, and this condition is nearly twice as common among men (41.2%) than among women (22.2%). The habit of consuming meat with excess fat (without removing the visible fat) is used as an indicator of consumption of foods considered unhealthy patterns of markers feed.

A minority consumes fish 2 or more times/week. The results obtained in this study on fish consumption (Table 1) keep up with the low consumption of this food profile in the country, compared to the recommendation of the World Health Organization (WHO), which is 12kg/person/year.

Among the protein foods, in the sample under study, there is a low consumption of milk by the adult population, as 70.4% (n = 85) does not consume the amount of 3 servings recommended by the Brazilian food guide. This result is consistent with the study of Gallina et al., in which the majority of teachers (86%, n = 68) exhibited inadequate consumption of dairy products. Furthermore, in Brazil, there is an apparent downward trend in the milk consumption, especially relevant when considering that osteoporosis is a major health problem, and the food from the milk group and derivatives are the main sources of calcium from food.

Regarding the type of milk consumed, there is a predominance of consumption for the whole-type milk. As in the present study the economic class C prevails, probably because of that this sample consumes more whole milk because of the best price offer. VIGITEL data show that the frequency of adults who reported the habit of consuming whole milk was high in all the cities studied.

Data from this study indicate adequate prevalence of consumption of fried food, salty snacks and meat (71%, n = 76) and sweets, cookies, soft drinks and processed juices (62.6%, n = 67). However, it is worrisome the proportions of those who have inadequate intake of fried foods, salty snacks and meat (29%, n = 31) and sweets, cookies, soft drinks and processed juices (37.4%, n = 40), as, for students, teachers usually assume a role model position. The study Gallina et al. confirms the data found, in which 39.3% of the sample consumes fried foods and chips at least 2x/week.

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According to Gallina et al., it is considered as adequate the sporadic or absent consumption of less healthy foods and as inadequate, the regular consumption (two or more times per week).

The data from the Family Budget Research (FBR) of 2002/2003 and 2008/2009, when evaluating the characteristics of product consumption that use sugar in...
their composition, show the occurrence of a substantial increase in the consumption of sugar in the form of industrialized products between the periods. The study of Rombaldi et al. revealed that about one third of the adult population (32.7%) regularly consumed high-fat diet. Regular consumption of fat, in both genders, was associated with younger age and regular consumption of soft drinks. The frequency of regular consumption of high-fat foods in the adult population in the municipality of Pelotas is beyond the current recommendations of the Ministry of Health.

Currently, among the leading causes of death in the world and in Brazil, there are the non-communicable diseases (NCDs). According to WHO, poor eating habits, among other factors, have been associated with NCDs, such as cardiovascular disease, diabetes mellitus, obesity and some cancers. The dietary pattern of the population has been marked by changes characterized by increased intake of foods with high energy density, high in saturated fat, trans fat and simple sugars, and low in fiber, associated with physical inactivity, and excessive alcohol consumption, which they have been identified as independent predictors of these diseases. The Food Guide for the Brazilian Population recommends 12 the use of small amounts of vegetable oil at home. The Food Guide for the Brazilian Population of Pelotas is beyond the current recommendations of the Ministry of Health.

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The study population was attended by teachers belonging to a religious entity, which in itself is a factor that is positively associated with QOL. Rocha and Fleck\(^3\) reported that the importance given to spirituality/religion/personal beliefs appears positively associated with the QOL on most of their domains, independently of other factors involved.

The results of Melo et al.\(^3\) showed that religion and spirituality are correlated with QOL, working mainly when coping with adverse situations. Thus, it is evident the importance of these phenomena to health practices, emphasizing the need to value them and include them in vocational training.

The produced study presented some limitations, such as the activities of educational planning meeting held simultaneously with the research, little disclosure and adherence of teachers to participate in the research, limiting the total number expected. The use of the questionnaire to collect data on the perception of QOL, for being extensive and self answered, may have led to an error in the interpretation of the questions. There are few studies that evaluate the food consumption of basic education teachers and use standardized instruments for future comparisons.

The findings of this study showed a weak association between three of the four QOL domains assessed, suggesting that individuals feel better as they feed better. It is needed more studies that assess the QOL and the food intake of primary school teachers that may contribute to these professionals to understand better and to contribute to the promotion of school health from their own lifestyle.

**CONCLUSION**

Most teachers have good QOL and satisfactory food intake. The relationship between QOL and food consumption shows that the higher diet score, the better QOL for teacher in all domains studied. Thus a healthy diet can contribute to health promotion, reflecting in a better QOL.

**REFERÊNCES**


