Lifestyle in Older Adults Who Attend a Primary Health Care Facility During the COVID-19 Pandemic in North Lima

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ABSTRACT

Background: The lifestyle of older adults due to the coronavirus pandemic has been highly affected because it restricts the daily activities they performed before the pandemic.

Objective: The objective is to determine the lifestyle of older adults who go to a primary health care facility during the COVID-19 pandemic in North Lima. It is a quantitative, descriptive, non-experimental cross-sectional study with a total population of 206 adults over 60 years old, who answered a questionnaire of sociodemographic data and the lifestyle instrument.

Results: Their results show the lifestyle of older adults, where 82 (39.8%) of older adults have a suitable lifestyle, 41 (19.9%) have a fantastic lifestyle, 31 (15%) do a good job maintaining their lifestyle, 31 (15%) their lifestyle is in the danger zone and 21 (10.2%) have a low lifestyle although they can improve it.

Conclusions: It is concluded strategies should be sought that allow the elderly to carry out their activities within the home to maintain their lifestyle.

Key Words: Lifestyle, Older adults, Care facility, COVID – 19, Vulnerable

INTRODUCTION

Worldwide, since 2019, the coronavirus pandemic (COVID-19) has spread in all countries, expanding throughout the population, however, the pandemic has generated fatal outcomes in the adult population, the elderly and people with comorbidities. Also, it has been predicted that COVID-19 considerably affects adults over 60 years old since there is a high risk that it is contagious and can contract more serious diseases from COVID-19, although older adults tend to be vulnerable to any disease since they are in a stage where their defences are weakened.

Likewise, COVID-19 has generated a negative impact on older adults since their lifestyle changes dramatically due to isolation and quarantine, since changes in lifestyle due to COVID-19, such as decreased physical activity, increased anxiety and decreased communication, all of this exerts a vulnerability in the elderly people, generating fragility at a physical and mental level.

There are many risk factors, whether modifiable or non-modifiable, that older adults present that further compromise their health, since it puts them highly at risk for contracting COVID-19, factors such as smoking, alcohol, BMI (body fat), obesity, sedentary lifestyle, arterial hypertension (HBP) and diabetes mellitus, all this compromises the health of the same, exposing it to being infected by COVID-19. Also, it has been predicted that in older adults factors such as physical inactivity, poor diet and comorbidities tend to influence the immune system in response to viral diseases, which is why it is interpreted that these factors make them vulnerable to older adults to COVID-19.

Not only this but also the lack of sleep in older adults tends to reduce their body’s immunity and increase the risk of respiratory infection, mainly COVID-19, although habits Hygiene measures are essential to prevent COVID-19 since hand hygiene has been predicted to reduce the incidence of the virus since it cannot survive long in our body. In the study carried out in the Netherlands, results were observed in 1119 older adults, between 48.3% to 54.3% of the total population had a decrease in physical activity and exercise due to the pandemic due to the COVID-19, 20.3% to 32.4% of the total population had...
a nutritional behaviour that superposes overnutrition, although 6.9% to 15.1% of the total population had a behaviour that predisposes to malnutrition.

In the study carried out in Brazil, with 1197 participants, it was observed that in older female adults with depressive symptoms and multimorbidity (various diseases), it was more associated with physical inactivity, whereas inactivity in males physical was more associated with depressive symptoms and metabolic disease such as diabetes mellitus. In the study carried out in Spain, they stated that social distancing due to COVID-19 has generated negative consequences at a physical and mental level, such as anxiety, depression, poor quality of sleep and physical inactivity during isolation due to COVID-19.

Therefore, the objective of the study is to determine the lifestyle of older adults who attend a primary health care facility during the COVID-19 pandemic in North Lima.

Therefore, the hypothesis in the research work is that the COVID-19 pandemic considerably affects the lifestyle of older adults, making them more susceptible to contagion.

**MATERIALS AND METHODS**

**Research Type**
The present study, due to its characteristics, way of collecting data and measuring the variables involved, has a quantitative approach. Regarding the methodological design, it is a non-experimental, descriptive, cross-sectional study.

**Population**
In the present study, the population is made up of 206 female and male adults older than 60 years old who attend a primary health care facility in North Lima.

**Inclusion criteria**
- Older adults who come to the health facility.
- Older adults who voluntarily agree to be present in the study by signing the informed consent ACTA N°040-2020-CE/UMA UNIVERSIDAD MARIA AUXILIADORA.

**Technique and instrument**
The technique used is the survey FANTASTICO questionnaire or data collection instrument whose purpose is to measure the lifestyle of older adults who attend the primary health care facility.

The FANTASTICO instrument is administered to assess how good its lifestyle is, consists of 30 items that are indicated in 10 dimensions, F: family and friends, A: associativity and physical activity, N: nutrition, T: toxicity, A: alcohol, S: sleep and stress, T: personality type and activities, I: inner image, C: control of health and sexuality, finally, O: order; which are evaluated with a Likert-type scale where “0 = Never”, “1 = Sometimes”, “2 = Always”. The final score is multiplied by 2, to obtain a final range from 0 to 120, where the ranges are quantitatively appreciated where “0 to 46 = is in the danger zone”, “47 to 72 = some low, you could improve”, “73 to 84 = adequate, you’re fine”, “85 to 102 = good job, you’re on the right track”, “103 to 120 = congratulations, you have a fantastic lifestyle”.

**Place and application of the instrument**
The survey was applied to the elderly population of the San Martín de Porres district of the Ex-Fundo Naranjal Health Center, which is in North Lima.

First, the coordination with the Health Center was carried out so that they authorize us to carry out the surveys to the elderly at the time they come for care, and then the permission of the elderly, explaining about the survey and why the work is done the research so that they understand what is going to be done.

The survey was carried out during the mornings with a time of approximately 15 minutes for each older adult in the research work, concluding with satisfaction since it could be carried out with the support of the elderly for the research.

It is important to emphasize the presence of health workers at the time of filling in the survey, since they may benefit from the research since it will allow them to know what the lifestyle of the elderly adult at home is like and what strategies to use to maintain a healthy lifestyle of themselves.

**RESULTS**
Below is a summary table of the surveys carried out following the guidelines corresponding to the research work:

In **Figure 1**, the lifestyle of the elderly is observed, where 82 (39.8%) of the elderly have a suitable lifestyle, 41 (19.9%) have a fantastic lifestyle, 31 (15%) do a good job maintaining their lifestyle, 31 (15%) their lifestyle is in the danger zone, and 21 (10.2%) have a low lifestyle although they can improve it.

In **Figure 2**, the lifestyle is observed concerning sex, where we can see that in the female sex 14 (45.2%) their lifestyle is in a danger zone and male sex 17 (54.8%), in some low lifestyle, 15 (71.4%) are female and 6 (28.6%) are male, in an appropriate lifestyle, 47 (57.3%) are female and 35 (42.7%) male, those who do a good job in their lifestyle 7 (22.6%) are female and 24 (77.4%) are male and those who have a fantastic lifestyle, 33 (80.5%) are female and 8 (19.5%) are male.

In **Table 1**, the lifestyle is related to the level of education of the elderly who attend a primary health care facility during the COVID-19 pandemic in North Lima, which was determined
with the test of Pearson’s chi-square ($X^2$). The level of significance of the test obtained a value of 0.51 ($p > 0.05$) ($X^2 = 85.479$; d.f = 12). Therefore, a hypothesis of an association between variables is not rejected, for which there is statistical data that verify the relationship between the lifestyle and the educational level of the elderly. So, we interpret that the lifestyle that is in a danger zone, 19 (61.3%) of the elderly have a higher technical level of instruction, in some low lifestyle, 17 (81%) of the elderly have a primary level of education, inadequate lifestyle, 36 (43.9%) of older adults have a secondary level of education, in good lifestyle, 17 (54.8%) of older adults have a level of secondary education and a fantastic lifestyle 25 (61%) of older adults have a secondary level of education.

In Table II, the lifestyle is related to the occupation of the elderly who attend a primary health care facility during the COVID-19 pandemic in North Lima, which was determined with the chi-square test of Pearson ($X^2$). The level of significance of the test obtained a value of 2.34 ($p > 0.05$) ($X^2 = 44.648$; d.f = 12). Therefore, a hypothesis of an association between variables is not rejected, for which there is statistical data that verify the relationship between the lifestyle and occupation of the elderly. Therefore, we can interpret that in a good lifestyle 10 (32.3%) of the elderly have a stable occupation, in an adequate lifestyle, 27 (32.9%) of the elderly have a temporary occupation, in Adequate lifestyle 37 (45.1%) of the elderly do not have an occupation, in a lifestyle that is in a danger zone, 11 (3.5%) of the elderly are retired.

These results are important to be able to observe if the lifestyle of the elderly changes due to the COVID-19 pandemic, so that solution strategies are carried out to maintain the appropriate lifestyle.

**DISCUSSIONS**

This study focused on the physical and mental health of older adults who are cared for in a primary care facility since elderly people who cannot perform their basic activities due to the COVID-19 pandemic have drastically changed their lifestyle since they cannot go outside the home since they are people with a high rate of contagion to COVID-19.

In the results on the lifestyle in older adults, they demonstrated an adequate lifestyle, this is because at home older adults tend to spend more time with their families, also, they carry out the routine activities that they did before the pandemic, such as passive physical activities, adequate food, good quality of sleep, and social interaction with the family, all of this exerts emotional support since older adults, being alone, negatively affects them and therefore they are depressed or worried about interrupting routines they can do at home. The authors argue that older adults with physical inactivity, poor sleep quality and a poor diet increase their chances of contracting COVID-19 even though they are vulnerable people with age to any disease. Similarly, the authors maintain that older adults who present some comorbidity and who do not perform any routine activity are potentially people at risk of contracting COVID-19, since comorbidities such as hypertension, overweight or obesity are both mainly make the elderly more susceptible to being able to have it quickly.

In the results of lifestyle about sex, we have obtained that those of the female sex have an adequate lifestyle better than men, this is due to factors such as levels of education and that are involved in Domestic and care activities allow them to maintain their lifestyle, on the other hand, men have responsibilities at home, thus obstructing their routine activities. They argue that the female sex had less lifestyle since there were factors that made their participation in activities less, such as physical limitations, lack of confidence, they lived alone and had no company, therefore they have a healthier style life was not adequate. They argued that women have a better lifestyle than men since they argue that they have a healthier life index due to habits and their state, whereas men present inappropriate habits and their state with the Age tends to be complicated since they can present some disease either due to high cholesterol. The limitation in the research work is access to each of the older adults since not all of them reported being participants in the research since they only wanted to be treated at the health center and access to the health center to be able to carry out the research work.

**CONCLUSIONS**

For older adults to have a good lifestyle during the COVID-19 pandemic, they need emotional and social support from their family, as it will allow them the confidence to carry out their daily activities. Strategies should be sought that allow the elderly to carry out their activities within the home to maintain their lifestyle. The COVID-19 pandemic has affected the nutritional behaviour of older adults since they are more susceptible to eating less and losing weight due to activities that they cannot perform. This research work will be beneficial for future work, since it details the lifestyle that older adults have followed during the COVID-19 pandemic and how it will be after the pandemic has ended.

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Figure 1: The lifestyle of older adults attending a primary health care facility.

Figure 2: Lifestyle concerning sex in older adults who attend a primary health care facility during the COVID-19 pandemic in North Lima.
Table 1: Lifestyle about Instruction-Level in older adults attending a primary health care facility during the COVID-19 pandemic in Lima North

|                              | Total Lifestyle | Instruction Level |        |        |        |        |        |        |
|------------------------------|-----------------|-------------------|--------|--------|--------|--------|--------|--------|
|                              | You are in danger zone | Count | 0 | 10 | 19 | 2 | 31 |        |
|                              |                  | % within Total Lifestyle | 0.0% | 32.3% | 61.3% | 6.5% | 100.0% |
|                              | Some low, you could improve it | Count | 17 | 3 | 1 | 0 | 21 |        |
|                              |                  | % within Total Lifestyle | 81.0% | 14.3% | 4.8% | 0.0% | 100.0% |
|                              | Adequate, you are fine | Count | 11 | 36 | 35 | 0 | 82 |        |
|                              |                  | % within Total Lifestyle | 13.4% | 43.9% | 42.7% | 0.0% | 100.0% |
|                              | Good job, you are on the right track | Count | 6 | 17 | 8 | 0 | 31 |        |
|                              |                  | % within Total Lifestyle | 19.4% | 54.8% | 25.8% | 0.0% | 100.0% |
|                              | Congratulations, you have a fantastic lifestyle | Count | 9 | 25 | 4 | 3 | 41 |        |
|                              |                  | % within Total Lifestyle | 22.0% | 61.0% | 9.8% | 7.3% | 100.0% |
|                              | Total | Count | 43 | 91 | 67 | 5 | 206 |        |
|                              |                  | % within Total Lifestyle | 20.9% | 44.2% | 32.5% | 2.4% | 100.0% |

Chi-square tests

|                                | Value | df | Asymptotic significance (bilateral) |
|--------------------------------|-------|----|-------------------------------------|
| Pearson's Chi-square           | 85.479* | 12 | 0.000 |
| Likelihood ratio               | 82.776 | 12 | 0.000 |
| Linear by linear association   | 4.704  | 1  | 0.030 |

N of Valid cases

a. 6 cells (30.0%) have expected a count less than 5. The minimum expected count is .51.

Table 2: Lifestyle about occupation in elderly adults attending a primary health care facility during the COVID-19 pandemic in Lima North

|                              | Total Lifestyle | Occupation |        |        |        |        |        |        |
|------------------------------|-----------------|------------|--------|--------|--------|--------|--------|--------|
|                              | You are in danger zone | Count | 4 | 2 | 14 | 11 | 31 |        |
|                              |                  | % within Total Lifestyle | 12.9% | 6.5% | 45.2% | 35.5% | 100.0% |
|                              | Some low, you could improve it | Count | 0 | 3 | 17 | 1 | 21 |        |
|                              |                  | % within Total Lifestyle | 0.0% | 14.3% | 81.0% | 4.8% | 100.0% |
|                              | Adequate, you are fine | Count | 7 | 27 | 37 | 11 | 82 |        |
|                              |                  | % within Total Lifestyle | 8.5% | 32.9% | 45.4% | 13.4% | 100.0% |
|                              | Good job, you are on the right track | Count | 10 | 11 | 8 | 2 | 31 |        |
|                              |                  | % within Total Lifestyle | 32.3% | 35.5% | 25.8% | 6.5% | 100.0% |
Congratulations, you have a fantastic lifestyle

| Occupation                | Stable Worker | Eventual | Without Occupation | Retired | Total |
|---------------------------|---------------|----------|--------------------|---------|-------|
| Count                     | 2             | 12       | 19                 | 8       | 41    |
| % within Total Lifestyle   | 4.9%          | 29.3%    | 46.3%              | 19.5%   | 100.0%|

Total Count: 23, 55, 95, 33, 206
% within Total Lifestyle: 11.2%, 26.7%, 46.1%, 16.0%, 100.0%

Chi-square tests

|                       | Value    | df  | Asymptotic significance (bilateral) |
|-----------------------|----------|-----|------------------------------------|
| Pearson's Chi-square  | 44.648a  | 12  | 0.000                              |
| Likelihood ratio      | 44.170   | 12  | 0.000                              |
| Linear by linear association | 4.775 | 1   | 0.029                              |

N of Valid cases: 206

a. 7 cells (35.0%) have expected a count lower than 5. The minimum expected count is 2.34.