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PROFILE OF SELF-MEDICATION AMONG OLDER ADULTS CARED FOR IN BASIC HEALTH UNITS

PERFIL DA AUTOMEDICAÇÃO ENTRE IDOSOS ASSISTIDOS POR UNIDADES BÁSICAS DE SAÚDE

PERFIL DE LA AUTOMEDICACIÓN ENTRE ADULTOS MAYORES ATENDIDOS EN UNIDADES BÁSICAS DE SALUD

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ABSTRACT

Objective: to analyze the profile of self-medication among older adults cared for in two health units of the Municipality of Itacoatiara, State of Amazonas, Brazil. **Method:** epidemiological cross-sectional study conducted with 81 older adults cared for at the Community Center for Older Adults and the Nicolas Euthemes Lekakis Neto Health Center located in the Municipality of Itacoatiara, AM. The technique used was simple random sampling. The data were collected filling out a form and analyzed statistically using the Epi Info 3.5.2 software. The project of the research was approved by the Research Ethics Committee, CAAE 02425412.3.0000.5020. **Results:** the profile of the population assessed showed a predominance of female participants with low family income and education level. Self medication proved to be constant in the population assessed with prevalence of 66.67%. **Conclusion:** the difficulty of access to the specialized health service and the false familiarity with this service are factors that contribute to self-medication. **Descriptors:** Public Health; Self-medication; Older adults; Pharmaco-epidemiology.

RESUMO

Objetivo: analisar o perfil da automedicação entre os idosos atendidos em duas unidades de saúde do Município de Itacoatiara, AM. **Método:** estudo epidemiológico transversal realizado com 81 idosos assistidos pelo Centro de Convivência do Idoso e pelo Centro de Saúde Nicolas Euthemes Lekakis Neto, localizados no Município de Itacoatiara, AM. A técnica de amostragem foi aleatória simples, com coleta de dados a partir da aplicação de um formulário. Os dados foram analisados estaticamente no software Epi Info 3.5.2. A pesquisa teve o projeto aprovado pelo Comitê de Ética em Pesquisa, CAAE 02425412.3.0000.5020. **Resultados:** o perfil da população estudada demonstrou predomínio de participantes do sexo feminino, com baixa renda familiar e escolaridade. A prática da automedicação revelou-se constante na população estudada, com prevalência de 66,67%. **Conclusão:** a dificuldade de acesso ao serviço de saúde especializado e a falsa familiaridade com o mesmo são fatores que contribuem para a automedicação. **Descritores:** Saúde Pública; Automedicação; Idosos; Farmacoepidemiologia.

RESUMEN

Objetivo: analizar el perfil de la automedicación entre adultos mayores en dos unidades de salud del Municipio de Itacoatiara, Estado de Amazonas, Brasil. **Método:** estudio epidemiológico transversal realizado con 81 adultos mayores atendidos en el Centro de Convivencia del Adulto Mayor y el Centro de Salud Nicolas Euthemes Lekakis Neto, ubicados en el Municipio de Itacoatiara, AM. La técnica usada fue el muestreo aleatorio simple. Los datos fueron recogidos con un formulario y analizados estadísticamente con el software Epi Info 3.5.2. El proyecto de la investigación fue aprobado por el Comité de Ética en Investigación, CAAE 02425412.3.0000.5020. **Resultados:** el perfil de la población estudiada mostró un predominio de participantes mujeres con bajos ingresos familiares y educación. La práctica de la automedicación se mostró constante en la población estudiada con predominio del 66,67%. **Conclusión:** la dificultad de acceso al servicio de salud especializado y la falsa familiaridad con el mismo son factores que contribuyen a la automedicación. **Descriptor:** Salud Pública; Automedicación; Adultos Mayores; Farmacoepidemiología.

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INTRODUCTION

Access to medicines has been motivated by initiatives that aim to promote its expansion both in Brazil and other countries of the world. This component, as well as disease prevention and access to health services, makes up one of the fundamental human rights, i.e., the right to health.¹

Population studies on the consumption of medicines show a proportion between the increasing use of drugs and the increased life expectancy of the populations of small villages of the countryside as well as in major urban centers.² The Brazilian older adult population has increased almost twice in comparison to the general population.³ This fact will cause a huge challenge, namely taking care of a population of more than 32 million older adults, most of them with low socioeconomic and educational level and with high prevalence of chronic diseases.⁴

Just as the number of older adults is increasing, the consumption of medicines by this population follows this trend. In recent decades, the total quantity of drugs consumed by them has been high, spending 30% of their income with medicines.⁵ The natural physiological processes of aging increase the likelihood of occurrence of chronic diseases in this population and they tend to be particularly more susceptible to the side effects of medicines.^{6,7}

Medicines, understood as essential to health, when properly prescribed by a health professional, are responsible for a significant part in the improvement of the quality and expectancy of life of the population.⁸ When used improperly, instead of fulfilling their role as the main factor to achieve the therapeutic goals, they become responsible for complications and the emergence of new pathologies.¹

Self-medication is a form of self-healthcare, understood as the selection and use of medicines for health maintenance, disease prevention, treatment of diseases or symptoms noticed by the individuals, without prescription, guidance, or medical monitoring.^{9,10}

The most frequent problems arising from self-medication include: superfluous expenses; delay in diagnosis and appropriate therapy; adverse or allergic reactions; and intoxication. Some adverse effects are masked, while others are confused with those of the disease that led to the consumption and create new problems, the most serious of which may lead the patient to hospitalization or death.¹¹

The greater availability of medicinal products in the market and restricted access to health services, among other factors, have contributed to the growth and dissemination of self-medication in the world, making it a serious public health problem.¹²

The lack of research on self-medication by older adults in the Middle Amazon region led to conduct this study with the following goal:

- To analyze the profile of self-medication among older adults cared for in two health units of the Municipality of Itacoatiara, State of Amazonas, Brazil.

METHOD

This is an epidemiological cross-sectional study conducted with representative samples of the population, through which global health indicators are produced for the group assessed. The selected population was composed of 81 older adults cared for in health units of the Municipality of Itacoatiara, State of Amazonas, Brazil.

The technique used in the study was simple random sampling. The criteria used for the calculation of the size of the sample were: target population of approximately 450 older adults; prevalence of self-medication estimated at 29%; 95% confidence interval (CI); and sampling error of ten percentage points. The minimum size of the sample was approximately 70 older adults. These calculations were performed using the BioStat software for Windows 2011.

The older adults selected for the sample were those who met the inclusion criteria, namely: (a) individuals aged 60 years or older; (b) being registered at the Community Center for Older Adults or the Nicolas Euthemes Lekakis Neto Health Center; and (c) agreement to participate in the study after signing an informed consent form. The exclusion criteria were: (a) failure to comply with any of the inclusion criteria; (b) individuals who, even complying with the inclusion criteria, did not have physical or mental conditions to cooperate with the study in a proper manner.

The instrument used for data collection was a form based on previous similar studies drawn up by the authors, which included questions that addressed socioeconomic and pharmaco-epidemiological variables.

In the data collection procedure, all participants were approached by order of arrival and informed about the research, at the time that the forms were applied after signing the informed consent form. This step was initiated after the agreement of the

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managers of the institutions involved in the research.

All data collected were doubly typed and analyzed statically using the Epi Info 3.5.2 software for Windows, version 2008, finding absolute frequencies for the variables related to pharmacotherapy and phytotherapy, as well as the prevalent value of self-medication in the population assessed.

The research project was submitted to the Research Ethics Committee of the Federal University of Amazonas and approved under number CAAE 02425412.3.0000.5020.

RESULTS

The profile of the population assessed is based on the data exhibited in Table 1, including relevant information about characteristics pertaining to socioeconomic variables. It can be noted that the largest number of participants was composed by female

individuals (75.31%), whose family income varied between one and two minimum wages (70.37%). Regarding the predominant marital status, 49.38% of the respondents stated that they were widowed. The education level of this population was low and most of them were illiterate (18.52%), 71.60% had completed only elementary education, and 9.88% had completed secondary education. None of the participants of the research had attended higher education.

Table 1. Data concerning socioeconomic variables

Socioeconomic data	No. of individuals	%
Sex		
Female	65	79.78
Male	16	20.22
Marital status		
Single	12	14.81
Married	25	30.86
Divorced	4	4.95
Widow	40	49.38
Education		
Illiterate	15	18.52
Primary education	58	71.60
Secondary education	8	9.88
Family income		
Up to 1 minimum wage	10	12.35
From 1 to 2 minimum wages	57	70.37
Over 2 minimum wages	14	17.27

The pharmaco-epidemiological data showed that 63 (77.78%) of the respondents made use of allopathic medicines. The most frequent were anti-hypertensive (71.42%) and hypoglycemic (23.80) drugs. Also, a high percentage (75.31%) related to the use of medicinal plants

was observed, and the most widely used were for treating gastrointestinal problems and tranquilizers.

Table 2. Data concerning the type of medicine used

Medication used	No. of individuals	%
Treatment for cataracts	1	1.58
Treatment for cholesterol	3	4.76
Treatment for depression	1	1.58
Treatment for diabetes	15	23.80
Treatment for cardiac diseases	1	1.58
Treatment for gastritis	5	7.93
Treatment for hypertension	45	71.42
Treatment for hypothyroidism	1	1.58
Treatment for infection	2	4.87
Treatment for labyrinthitis	2	4.87
Treatment for osteoporosis	3	4.76
Treatment for pains	3	4.76
Treatment for prostate	4	6.34
Vitamins	3	4.76

The self-medication profile found in this study showed to be low, however within the national standard according to the regional literature. It may be suggested that this disparity in the results obtained is due to the difference in quality of pharmaceutical assistance offered to older adults by states and municipalities.

CONCLUSION

The prevalence of self-medication among older adults in the Municipality of Itacoatiara, State of Amazonas, proved to be low when compared to findings of similar studies involving older adults from other Brazilian municipalities. This fact is related to the strong cultural tendency of the population to self-medicate and the inherent risks unknown by the population.

Other factors of influence are the difficulty of access to adequate medical care, familiarity with drugs that were previously used and geared positive result, and the medical and pharmaceutical assistance that are usually of terrible quality. These facts make older adults feel insecure about following the prescriptions, often giving preference to phytotherapeutic drugs.

FUNDING

This study was conducted with support from the Foundation for Research Support of the State of Amazonas/Institutional Program for Scientific Initiation Scholarships (FAPEAM PIBIC/UFAM), 2012-2013. Manaus, AM, Brazil.

REFERENCES

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REFERENCES

 1. Figueiredo TA, Pepe VLE, Osorio-de-Castro CGS. Um enfoque sanitário sobre a demanda judicial de medicamentos Physis Revista de Saúde Coletiva [Internet]. 2010 [cited 2013 June 13];20(1):101-118. Available from: http://www.scielo.br/scielo.php?pid=S0103-73312010000100007&script=sci_arttext
 2. Oliveira AM, Andrade AN, Costa TS, Gondim FSS, Torres IA, França TA. Fatores contribuintes para a prática da automedicação de idosos em uma unidade de saúde da família. J Nurs UFPE on line [Internet]. 2012 Jan [cited 2013 June 13];6(1):135-31. Available from: http://www.revista.ufpe.br/revistaenfermagem/index.php/revista/article/view/2111/pdf_766
 3. Silva AL, Ribeiro AQ, Klein CH, Acúrcio FA. Utilização de medicamentos por idosos brasileiros, de acordo com a faixa etária: Um inquérito postal. Cad Saúde Pública [Internet]. 2012 June [cited 2013 June 13]; 28(6):1033-1045. Available from: http://www.scielo.br/scielo.php?script=sci_arttext&pid=S0102-311X2012000600003.
 4. Berlezi EM, Eickhoff HM, Oliveira KR, Dallepiane LB, Perlini NMOG, Mafalda A, et al. Programa de atenção ao idoso: relato de um modelo assistencial. Texto Contexto Enferm [Internet]. 2011 Apr-June [cited 2013 June 13];20(2):368-75. Available from: <http://www.scielo.br/pdf/tce/v20n2/a16v20n2.pdf>.
 5. Soares MA. Revista Farmácia Brasileira, A. 3, Feb; 2000.
 6. Goodman LS. As bases farmacológicas da terapêutica. Rio de Janeiro: McGraw-Hill; 1996.
 7. Ballone JG. Uso de medicamentos por idosos e iatrogenia [Internet; update 2012 Mar 12]. [cited 2013 June 13]. Available from: <http://sites.uol.com.br/gballone/geriat/medicam.html>.
 8. Arrais PSD, Brito LL, Barreto ML, Coelho HLL. Prevalência e fatores determinantes do consumo de medicamentos no município de Fortaleza, Ceará, Brasil. Cad Saúde Pública [Internet]. 2005 nov-dez, [cited 2013 June 13];21(6):1737-1746. Available from: <http://www.scielo.br/pdf/csp/v21n6/11.pdf>.
 9. Oliveira MA, Francisco PMSB, Costa KS, Barros MBA. Automedicação em idosos residentes em Campinas, São Paulo, Brasil: prevalência e fatores associados. Cad. Saúde Pública [Internet]. 2012 Feb [cited 2013 June 13]; 28(2): 335-345. Available from: http://www.scielo.br/scielo.php?pid=S0102-311X2012000200012&script=sci_arttext.
 10. Valença CN, Germano RM, Menezes RMP. the self-medication in elderly people and the role of health professionals and nursing. J Nurs UFPE on line [Internet]. 2010 May-June [cited 2013 June 13];4(esp):1254-260. Available from: <http://www.revista.ufpe.br/revistaenfermagem/index.php/revista/article/view/798>
 11. Sá MB, Barros JAC; Sá, Michel PBO. Automedicação em idosos na cidade de Salgueiro-PE. Rev Bras Epidemiologia [Internet]. 2007 [cited 2013 June 13];10(1):75-8. Available from: <http://www.scielo.br/pdf/rbepid/v10n1/08.pdf>.
 12. Loyola Filho AI, Uchoa E, Guerra HL, Firmo JO, Lima-Costa MF. Prevalence and factors associated with self-medication: the bambuí health survey. Rev Saúde Pública [Internet]. 2002 [cited 2013 June 13];36(1):55-62. Available from:

http://www.scielo.br/scielo.php?pid=S0034-89102002000100009&script=sci_arttext.

13. Servidoni SR, Duarte YA. O Atendimento domiciliar: um enfoque gerontológico. São Paulo: Atheneu; 2006, cap. 24, p. 327-335.



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