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The New Challenge: The Aging Process in the Brazilian Amazonia

Henrique Schroeder Coelho¹, Poliana de Andrade¹, Juliana de Souza Almeida Aranha Camargo¹, Sergio de Almeida Basano ^{1,2}, Ricardo Godoi Mattos Ferreira³, Mariana de Andrade Coelho⁴, Rubens Belfort Jr⁴, Leandro Diehl⁵, Pedro Gordan⁶, Antonio Sergio Ferraudo⁷ and Luís Marcelo Aranha Camargo^{1,8*}

¹Sao Lucas Medicine College, Brazil

²Rondonia Secretary of Health of Rondonia, Brazil

³Oswaldo Cruz Foundation-Rondonia, Brazil

⁴Federal University of Sao Paulo, Brazil

⁵State University of Londrina, Brazil

⁶Catholic University of Parana, Brazil

⁷State University of Sao Paulo, Brazil

⁸University of Sao Paulo, Brazil

*Corresponding author: Luís Marcelo Aranha Camargo, University of Sao Paulo Rua Francisco Prestes 2827, Monte Negro, Rondônia 76888-000, Brazil, Tel: +55-699-219-8714, +69-921-98714; E-mail: spider@icbusp.org

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Introduction

There are few studies on the aging process in Brazil but no one focusing on the Brazilian Amazonia. In order to gain information about this issue, the University of Sao Paulo Research Unit in the state of Rondonia investigated the health status of more than 90% of the 412 elders over 59 years living in the urban area of Monte Negro city (63°22′W, 13°44′S). To this purpose, a cross-sectional study was done in July 2013, plus a review of all the death certificates of Monte Negro 's citizens between 2002-2011. These are preliminary results of cohort study that will follow up this group for the next 10 years. The initial results are shocking. Males accounted for 50.1% of the sample. Only 3.4% were born in the Amazon region and 48.6% were from Southeastern Brazil having arrived in Rondonia in the early seventies. More than 45% have never attended school. Regarding mortality information, more than 50% of the deaths were due to chronic nontransmissible diseases (CNTD) (cardiovascular disease, cancer and stroke), 30% were due to deaths linked to violent causes (mostly motorbike crashes), 18% were related to unknown causes and only 2% were related to infectious diseases. These figures are grossly like the profile of developed countries. The cross-sectional study gives us some more important information about the health status of this group:

70.6% have arterial hypertension and only 60% are receiving adequate medication. Dyslipidemia has a prevalence rate of 65.2% and just 12% are being adequately treated. Diabetes 2 prevalence is 22%, depression 11.6%, dementia 4.5%, and metabolic syndrome 45.4%. Reduced renal filtration rate (less than 60 mL/min/1.73 m²) occurred in 53.4%. The main ophthalmologic disorders were: cataracts 59.7%, glaucoma 11.6% and retinopathies due to diabetes/hypertension 2.4%. Fifty three percent of the patients were tested for transmissible diseases: 0.9% with hepatitis B, 0.4% with hepatitis C and no one with HIV 1 2 infection. At least one malaria episode was reported by 75% of the elderly, tegumentary leishmaniasis by 14.5%, leprosy by 4.3% and tuberculosis by 2.4% and Chagas disease by 0.7%.

These preliminary results pose some questions. How is the aging process of this group that arrived at the Brazilian Amazonia nearly 30 years ago? Will parasitic-infectious diseases interfere with the aging process? Environment (diet, sun, life conditions, labor) also does it? Is the Brazilian health system prepared for this challenge? What we can say is that although the Brazilian government is trying to change the health system model to strengthen primary health care, there's a long and winding way to success. In this scenario, CNTDs emerge as the new neglected diseases of the Brazilian Amazonia.