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STROKE AND NEUROSCIENCE

SESSION TITLE: VIRTUAL POSTER SESSION: ADVANCES IN CLINICAL SCIENCE AND STROKE

Abstract 10248: Incidence and Case-Fatality Rate of Stroke in Argentina: The EstEPA Population Study

Sebastian F Ameriso, Matias J Alet, Virginia A Pujol Lereis and Mario O Melcon

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Abstract

Introduction: Stroke epidemiology varies among different populations. The burden of stroke is high in low- and middle-income countries. Reliable population data is needed to assess the impact of stroke and to develop policies aimed to improve stroke care in our region. **Objectives:** EstEPA is a population-based project assessing prevalence, incidence, mortality and burden of stroke in General Villegas, Buenos Aires, Argentina (pop=30,864 inhabitants). We determined incidence of stroke (first-ever and recurrent stroke) and stroke case-fatality rate from 2017 to 2020.

Methods: First-ever strokes, recurrent strokes and transient ischemic attacks were ascertained and case-fatality rate was obtained. Diagnoses were based on standard AHA/WHO definitions. Study population included all persons residing in General Villegas in the three-year period. Hospitals, households, nursing homes, death certificates and several overlapping sources were surveyed.

Results: We assessed 92,592 person-years. There were 155 cerebrovascular events, of which 115 were first-ever strokes (74%), 21 recurrent strokes (13.5%) and 19 transient ischemic attacks (12.5%). The annual crude incidence rate of first-ever strokes was 124.2 per 100,000 person-years, while it was 109.7 per 100,000 (95% CI 89.7-129.8), 72.4 per 100,000 (95% CI 47.8-97.0) and 86.9 per 100,000 (95% CI 58.5-115.2) when standardized by the Argentine population, Segi's World population and WHO World population, respectively. The crude incidence rate according to the different subtypes of stroke was 93.4 per 100,000 person-years for ischemic stroke, 18.4 per 100,000 person-years for hemorrhagic stroke and 10.8 per 100,000 person-years for subarachnoid hemorrhage. Incidence increased after age 70. Case fatality rate at 30 days of first-ever strokes was 19.4%.

Conclusions: In this first population-based comprehensive stroke epidemiological study in Argentina, first-ever stroke incidence in an urban population was 124.2 per 100,000 person-

years. This is lower than the incidence in other countries in the region. It is similar to reported incidence in Western developed countries. Stroke case-fatality rate was comparable to other population-based Latin-American studies and most developed countries.

Footnotes

Author Disclosures: For author disclosure information, please visit the AHA Scientific Sessions 2022 [Online Program Planner](#) and search for the abstract title.



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