

BRAZILIAN STROKE BIOBANK PHASE II GENOMIC STUDIES



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Joinville Stroke Registry



Ongoing population-based registry since 2005.

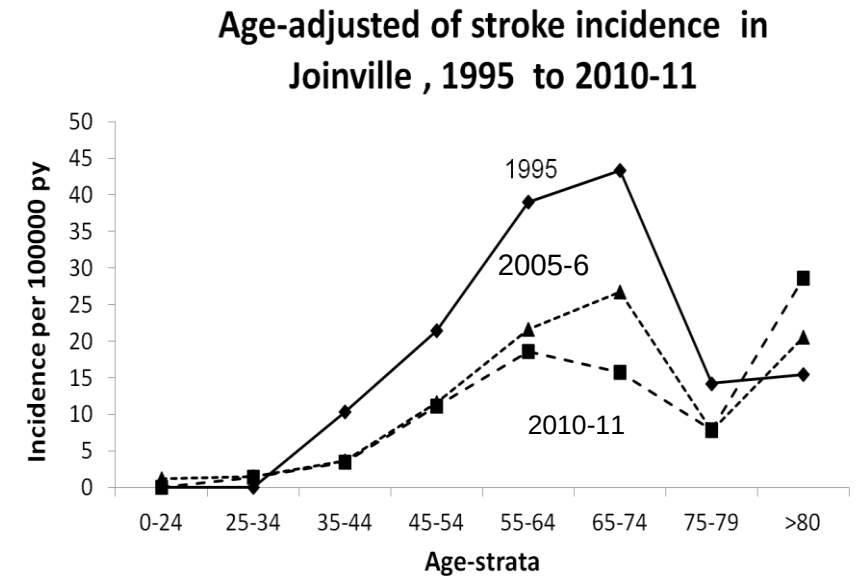
Demographic, clinical (CV risk factors + NIH, TOAST, OCSP and Rankin scales)

Telephone follow-up for 5 five years

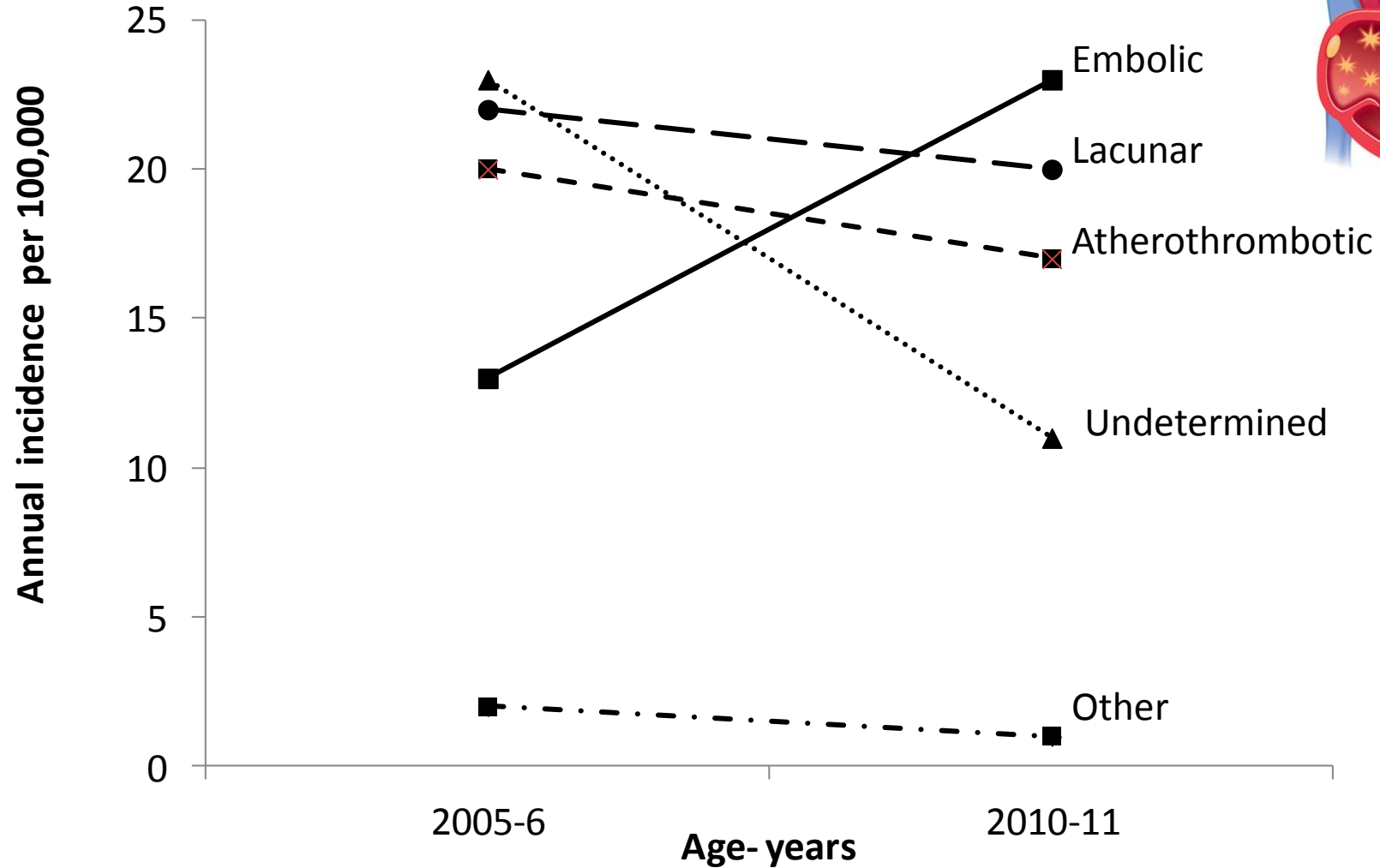
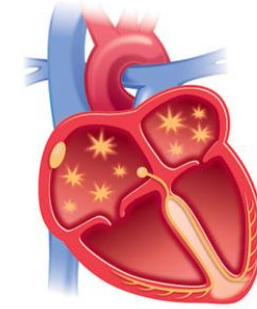
Image bank (all cases with cranial CT; 25% with MRI)

2014 → 5053 cases of IS, PIH (lobar and not-lobar), SAH and TIA

3 research-nurses / 6 h / day; WHO Steps and Warlow and Sudlow criteria



Incidence of ischemic stroke subtypes in Joinville, 2005-6 and 2010-11 *

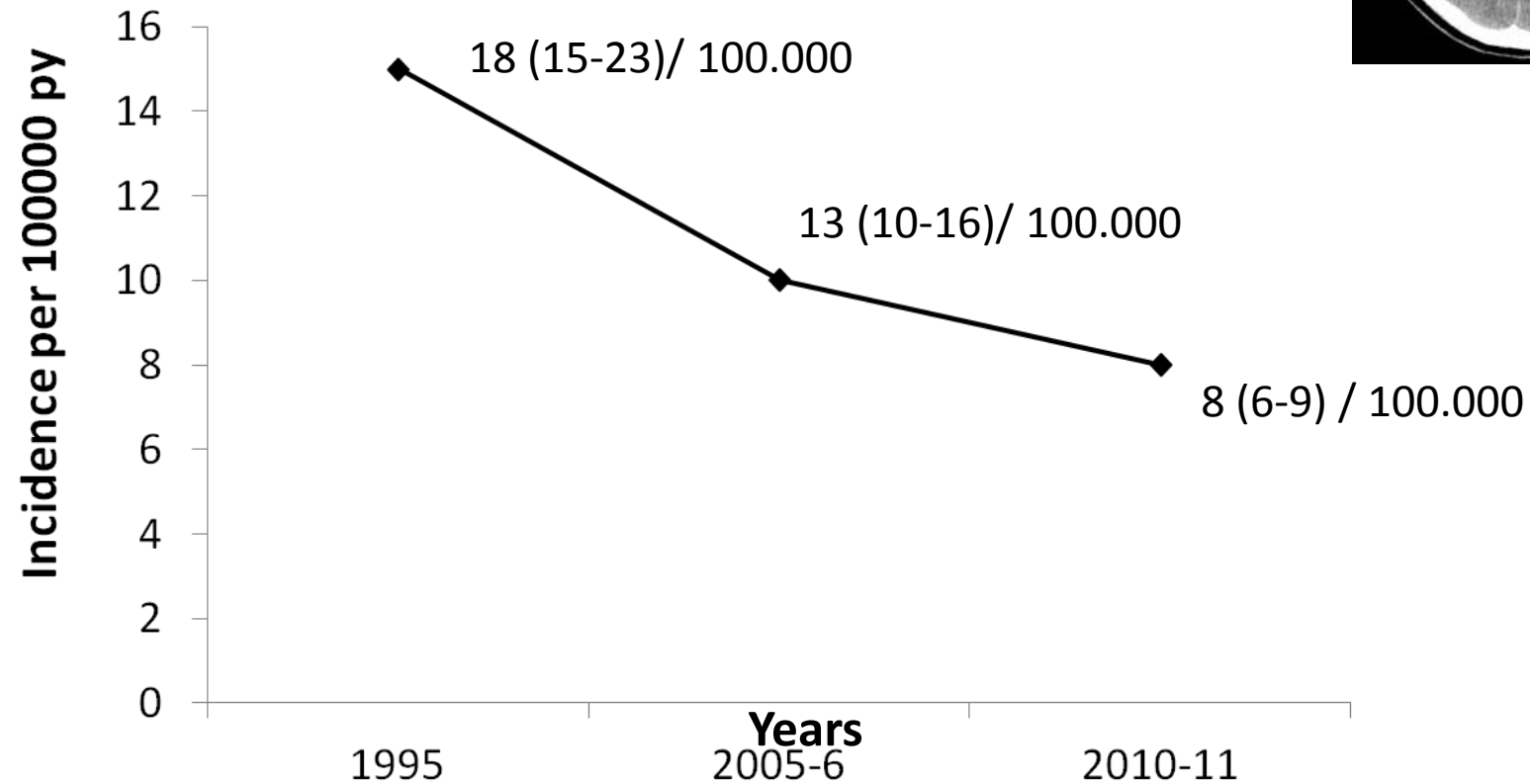


* Incidence > 15 years old, age-adjusted to world population 2000 (SEGI)

Resultados

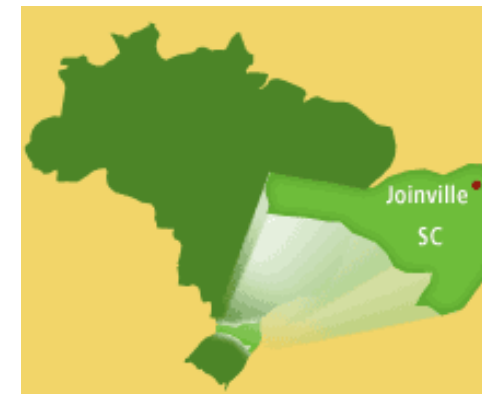
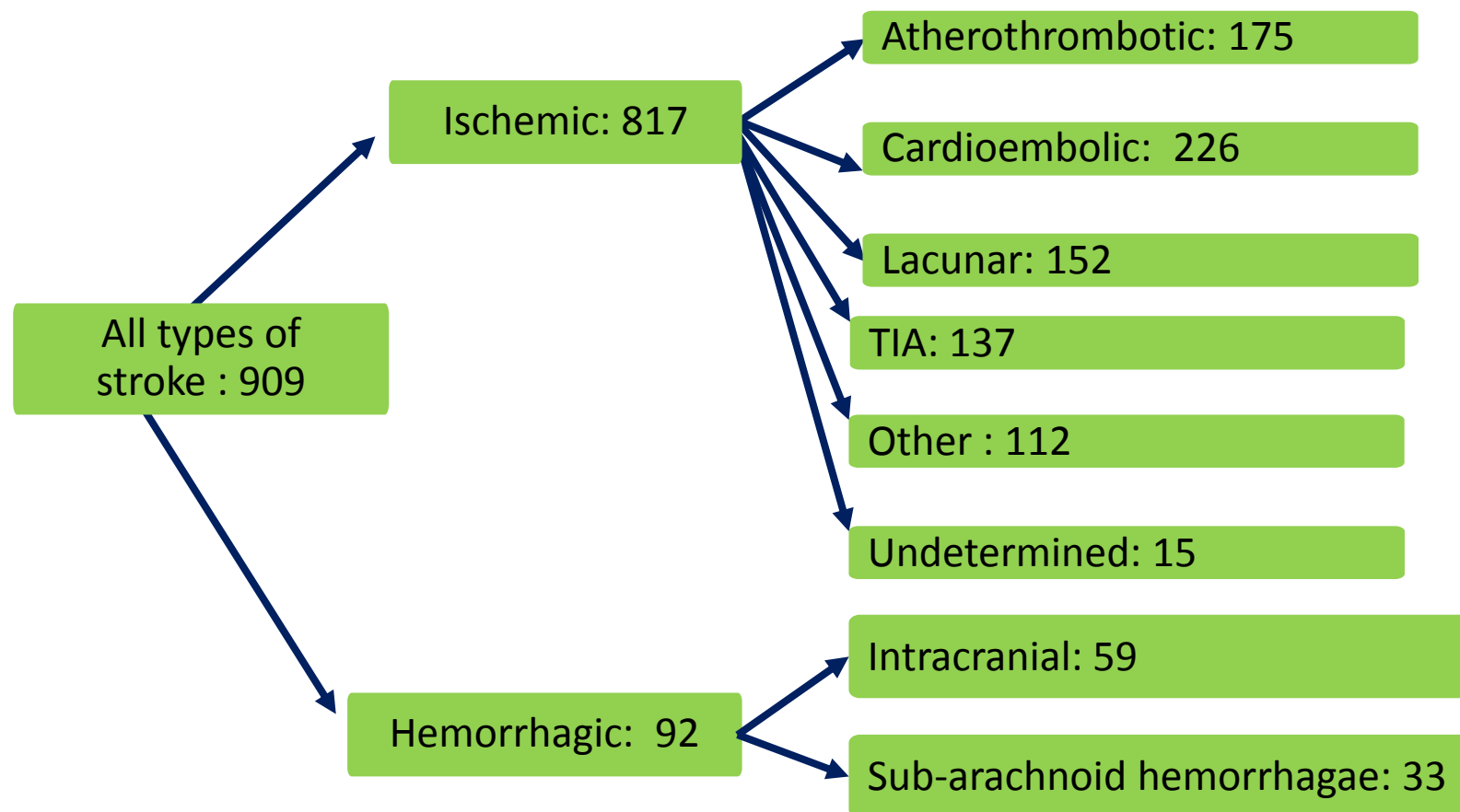
↓ 5.9%. (95% CI, 1.9-9.8) ; $p=0.0035$).

Incidencia ajustada AVC hemorragico em Joinville 1995 a 2011



**Letalidade em 30-dias : 1995= 36% (21/59; 95% CI, 24 to 49) ;
em 2005-6 = 41% (39/94; 31-52) e em 2010-11 = 41% (33/80; 30-53) ($p=0.7349$).**

Ischemic (TOAST), hemorrhagic and SAH distribution



What Iscia Cendes (geneticist/Unicamp- Brazil) shown in Lund/2013 : DNA from 909 cases and 1456 controls all of Caucasian ancestry and Joinville city residents

January 2014 → DNA samples were send from Joinville (SC) to Campinas (SP)

Ischemic Sample:

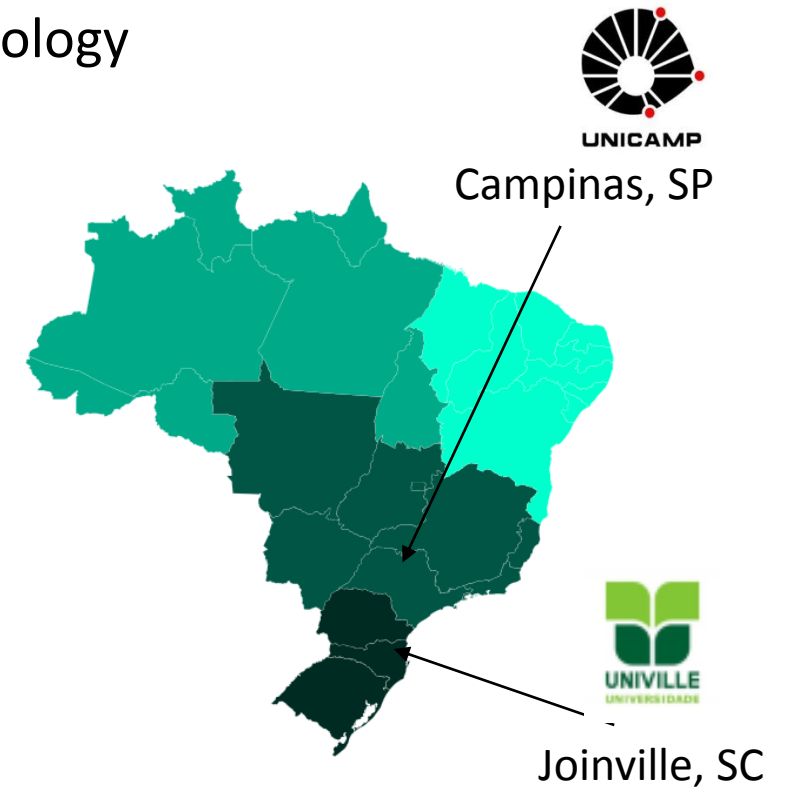
Next Generation Sequencing (NGS, Illumina HiSeq™ and MiSeq™ technology)

Hemorrhagic Sample:

Large scale SNP genotyping → Affimetrix microarray technology

Our data will be available for ISCG

Funded by FAPESP (São Paulo Research Foundation)



2014-2016

Brazilian Epidemiological and Biobank Stroke Study

-NINDS Grant Proposal-



Prospective, population-based study in five Brazilian cities with genetic mixed population.

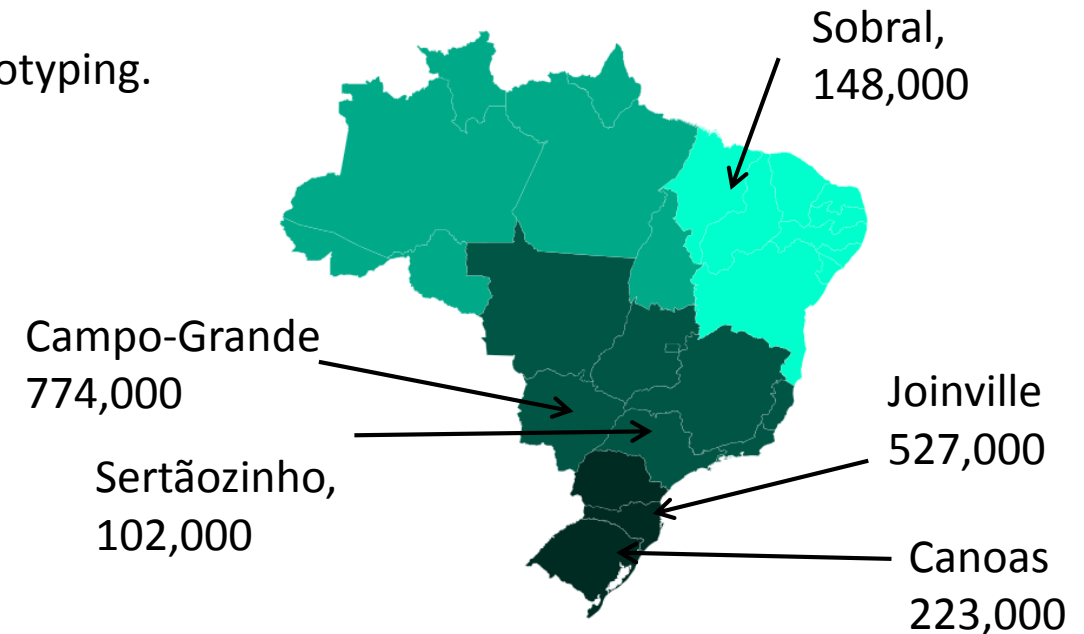
Each city: one neurologist + 2 research nurses (6h/day) + funds for data bank and blood extraction: 2014-16.

Incidence, case-fatality and prevalence of CV risk-factors, CCS phenotyping.

WHO Steps criteria/ all with cranial TC / all stroke types, all ages.

We expected: 2400 samples and 4800 controls / per year

Samples will be sent (FTA Cards) to Joinville Biobank for DNA extraction and storage (-80°C)



Funded by Ministry of Health and National Council for Scientific and Technological Development (CNPq)



Thank you / Obrigado