

Ciclo de cuidado ao AVC: Experiência Joinvasc – Stroke Program

Carla Heloisa Cabral Moro



Joinvasc Stroke Program covers the entire population of Joinville, but is not limited to it.

Objective: Improve stroke care throughout the line of care, from prevention to health outcomes that make sense to the patient.



JOINVASC



Norberto Cabral
1963-2019



Carla Moro



Alexandre Longo

Main strategies

- Best Medical Practices
- Outcome and cost metrics
- Learning cycles
- Stroke Support Association



JOINVASC

The Three Essential Components of Joinvasc



Stroke Registry



Multidisciplinary Stroke Unit



Stroke Support Association



JOINVASC

The Three Essential Components of Joinvasc



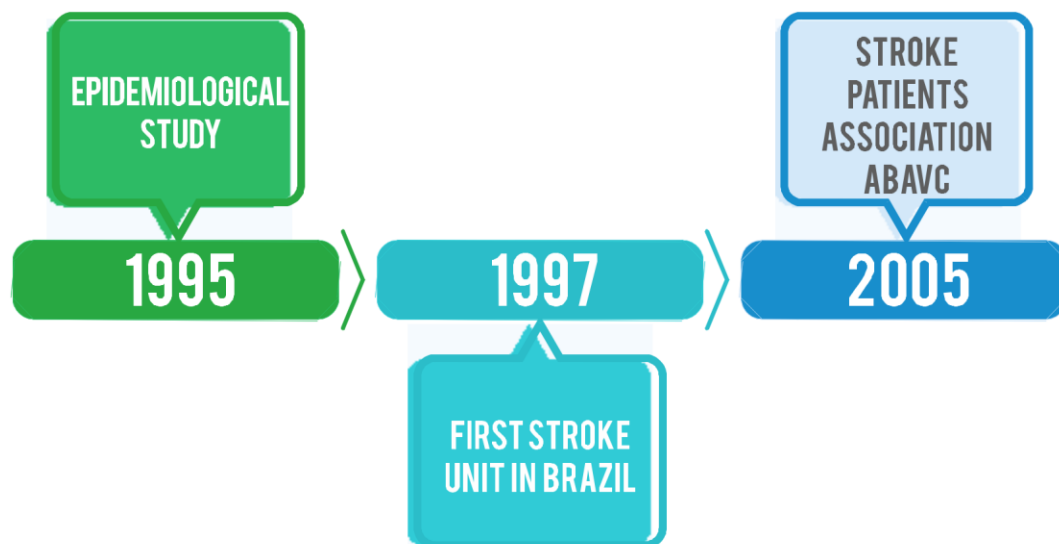
Stroke Registry

Populational Data



Stroke Patient Association

Focus on Patients Needs



Stroke IPU

Standardization of Best Practices

The Three Essential Components of Joinvasc



Stroke Patient Association
Focus on Patients Needs

EPIDEMIOLOGICAL
STUDY

1995

1997

FIRST STROKE
UNIT IN BRAZIL

STROKE
PATIENTS
ASSOCIATION
ABAVC

2005



Stroke IPU

Standardization of Best Practices

The Three Essential Components of Joinvasc



Stroke Registry
Populational Data



Multidisciplinary Stroke Unit
Standardization of Best Practices



Stroke Support Association
Focus on Patients Needs

Arq Neuropsiquiatr 1997;55(3-A):357-363

EPIDEMIOLOGIA DOS ACIDENTES CEREBROVASCULARES EM JOINVILLE, BRASIL

ESTUDO INSTITUCIONAL.

NORBERTO L. CABRAL, ALEXANDRE L. LONGO*, CARLA H.C. MORO*,
CLAUDIO H. AMARAL*, HAYDEE C. KISS**



JOINVASC

Populational Stroke Registry and Outcome Data

Started in 1995

WHO STEPS Methodology

All subtypes of stroke (TIAs, AIS, ICH, and SAH)

5 Years Follow-up

2013 became a municipality law

Specialized and Dedicated Team:

01 Neurologist Coordinator

05 Dedicated Nurses

01 Administrative assistants

05 Volunteer stroke neurologists

Stakeholders:

Region of Joinville University – UNIVILLE

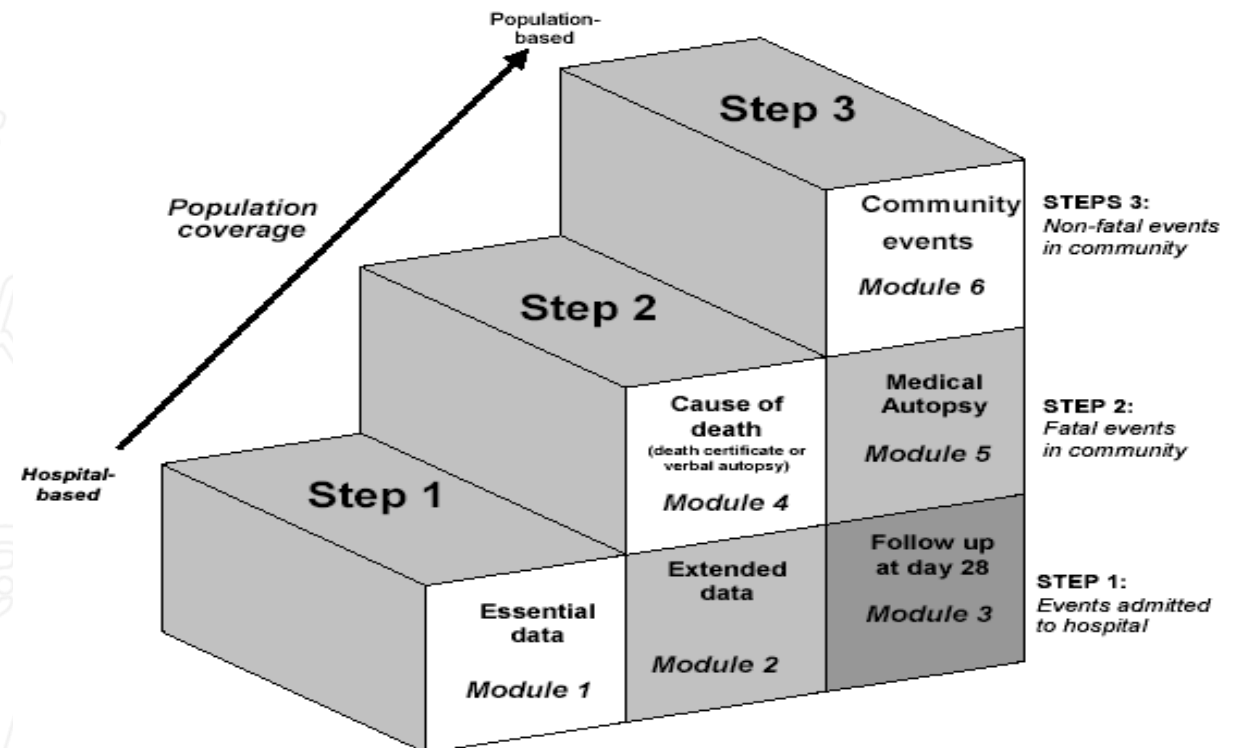
The municipality (health secretariat)

Public Comprehensive Stroke Center

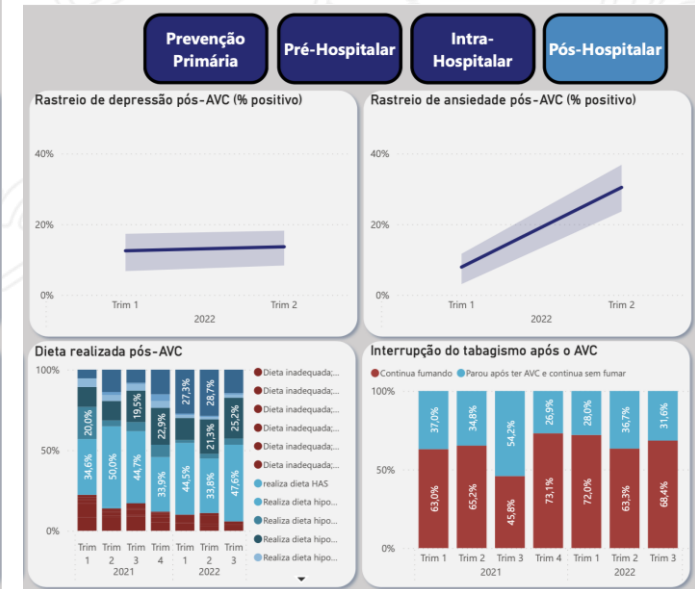
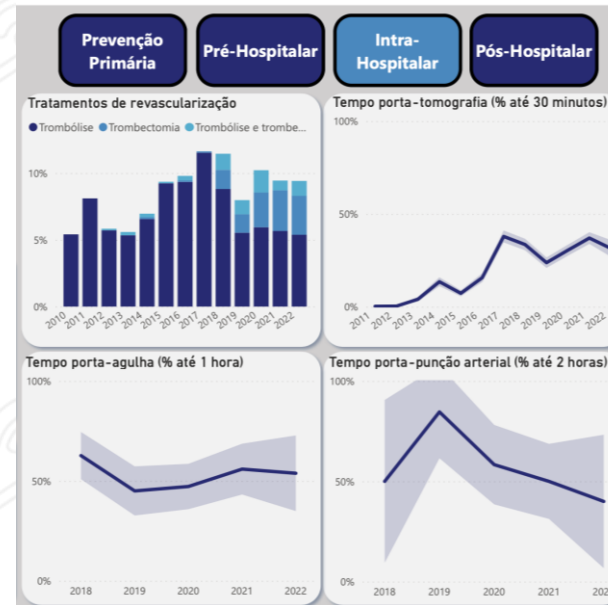
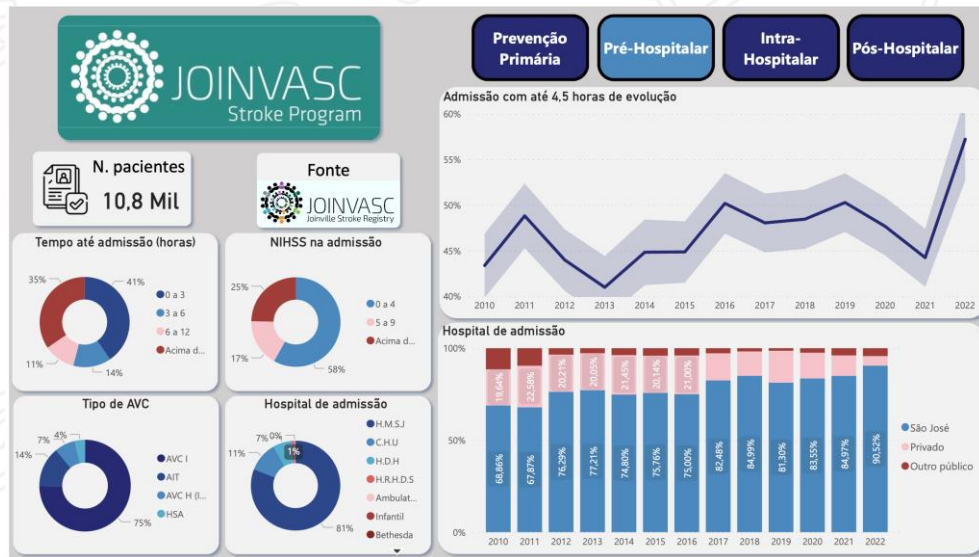
Stroke Support Association ABAVC



STEPwise Approach to NCD Risk Factor Surveillance (STEPS)



Populational Stroke Registry and Outcome Data



Data-driven Improvements:

- **Dashboards are available for all stakeholders: outcomes (mRS, QoL, anxiety, depression), costs, quality, care gaps, and outpatient care.**
- Data flow enables **learning loops** with a comprehensive view of factors affecting patients' value;
- Creates the team's **accountability for outcomes;**
- Relationship of trust and mutual responsibility among stakeholders.

Populational Stroke Registry and Cost Data

Standardized processes to collect real-world costs for
the full cycle of stroke care (up to 5y)

Cost analysis led to **data-driven discussions**, allowing the full adoption of state-of-the-art therapies which were **not yet incorporated in the SUS:**

Joinvasc	Brasil – National Policy
1997 - The first Stroke Unit in Brazil	2012
1998 - IV Thrombolysis	2012
2012 - Mechanical thrombectomy	2023

Managed and monitored discharge and póst hospital needs



JOINVASC
Epidemiologic Register



Digital health

Monitors post-hospital needs
GAD-7 Depression /PHQ-9
Anxiety

Main scientific publications

Trends of Stroke Incidence from 1995 to 2013 in Joinville

Incidence and functional outcome of atrial fibrillation

Increase of Stroke Incidence in Young Adults in a Middle-Income Country

Trends in stroke incidence, mortality and case fatality rates in Joinville

High five-year mortality rates of ischemic stroke subtypes

Fibrilação atrial crônica, AVC e anticoagulação: Sub-uso de varfarina:

Trombólise endovenosa com alteplase em AVC isquêmico-experiência em 27 casos-Joinville

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Stroke recurrence in the different subtypes of ischemic stroke. The importance of the intracranial disease

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Education Level Explains Differences in Stroke Incidence among City Districts in Joinville

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Original Paper

 Neuroepidemiology 328865
 DOI: 10.1159/000328865

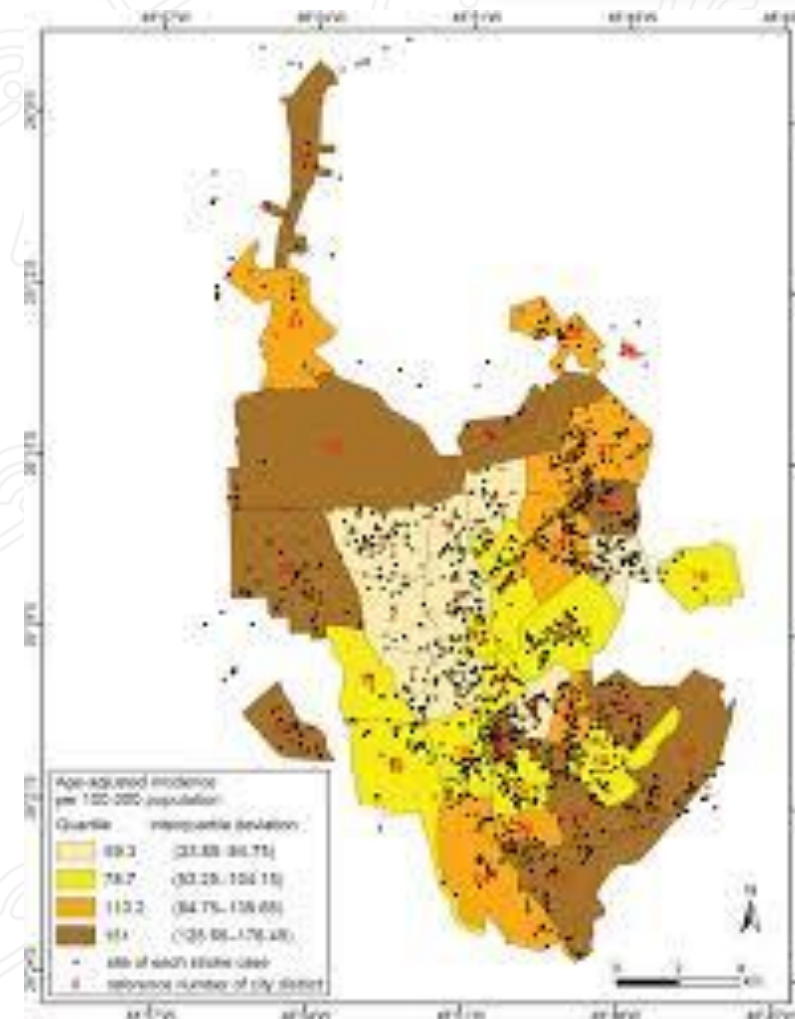
 Received: February 21, 2011
 Accepted: April 20, 2011
 Published online: ■■■

Education Level Explains Differences in Stroke Incidence among City Districts in Joinville, Brazil: A Three-Year Population-Based Study

 Norberto L. Cabral^a Alexandre Longo^a Carla Moro^a Priscila Ferst^a
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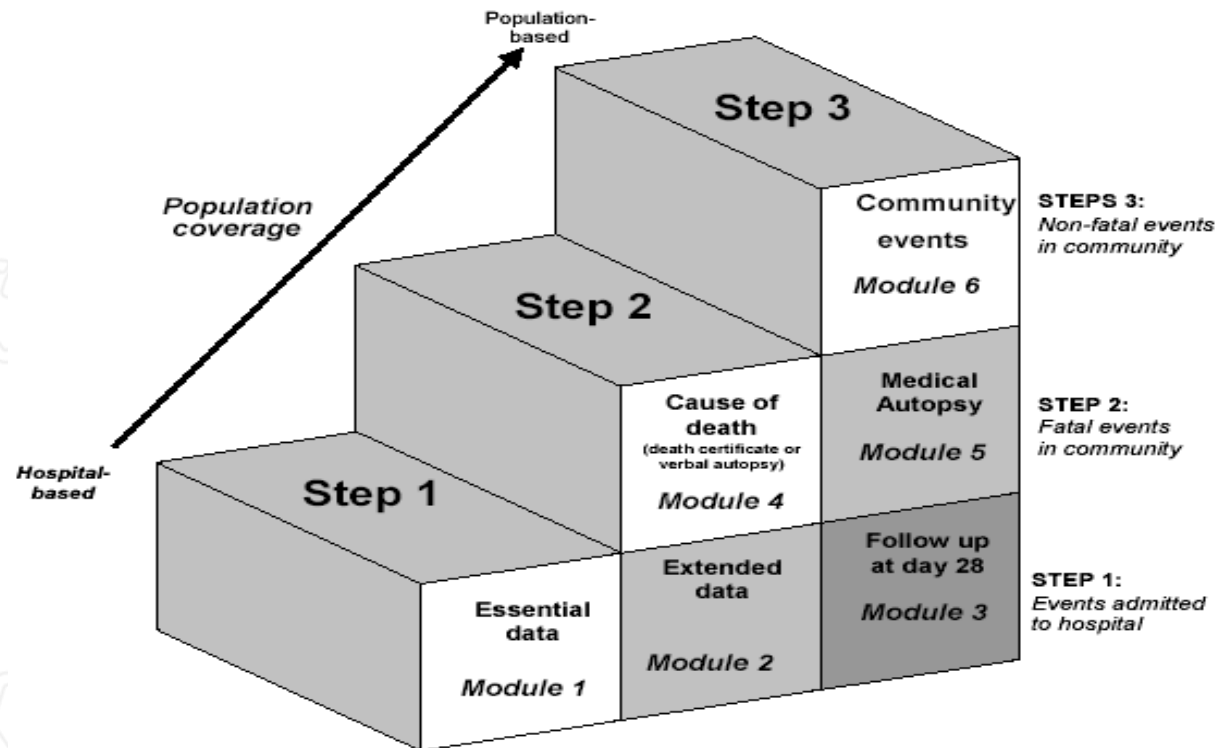
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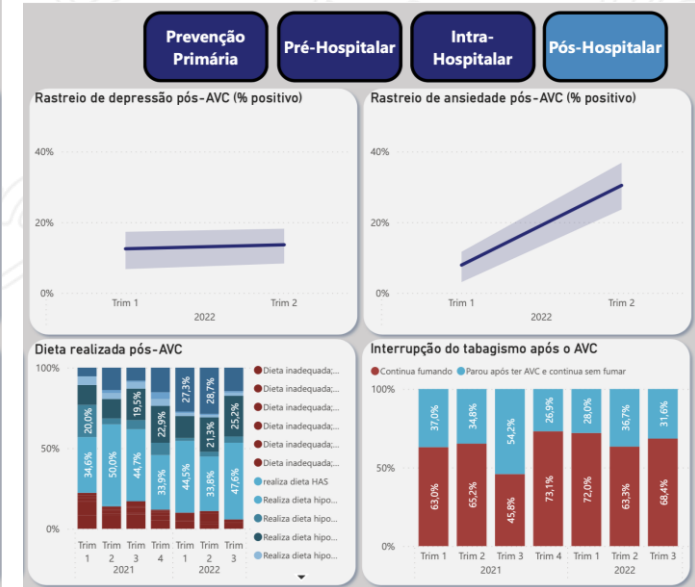
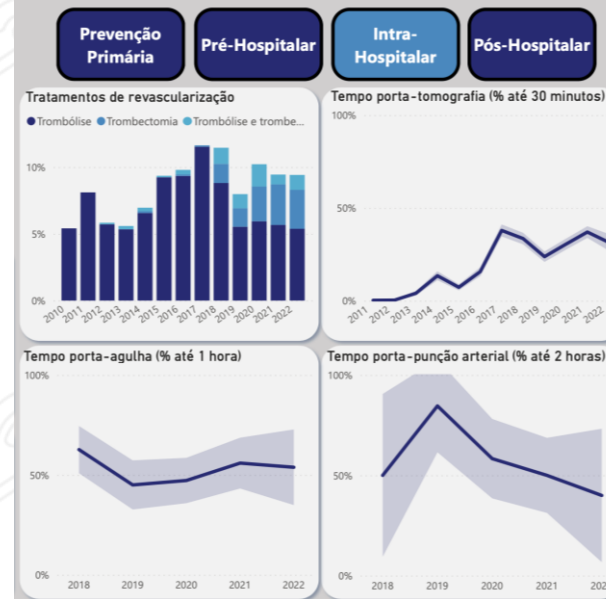
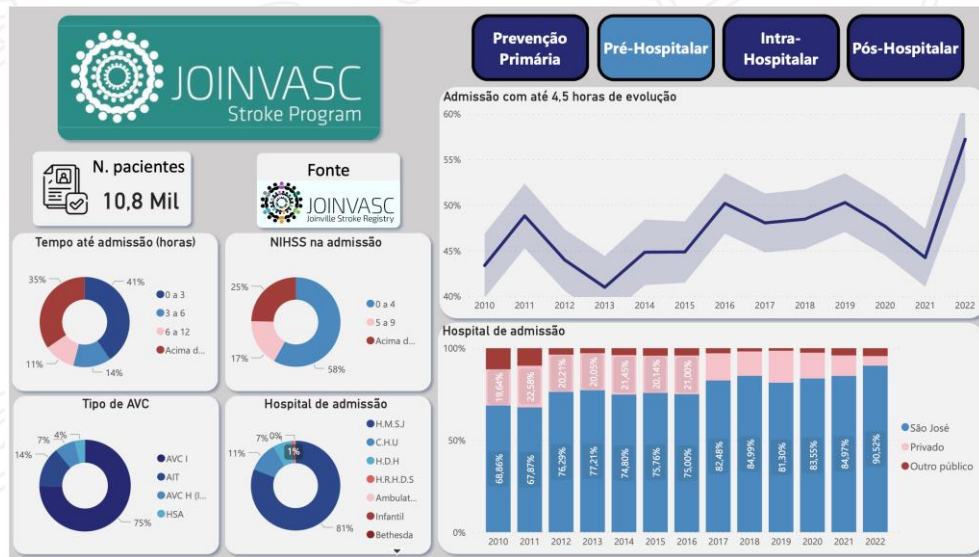
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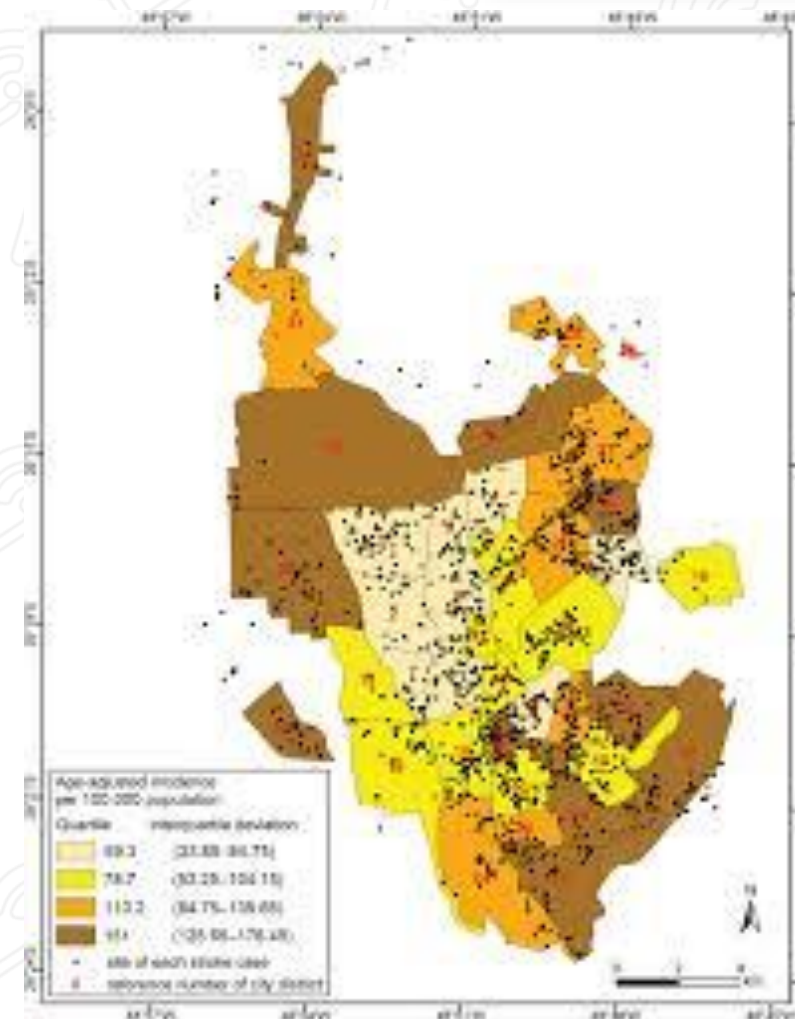
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The Three Essential Components of Joinvasc



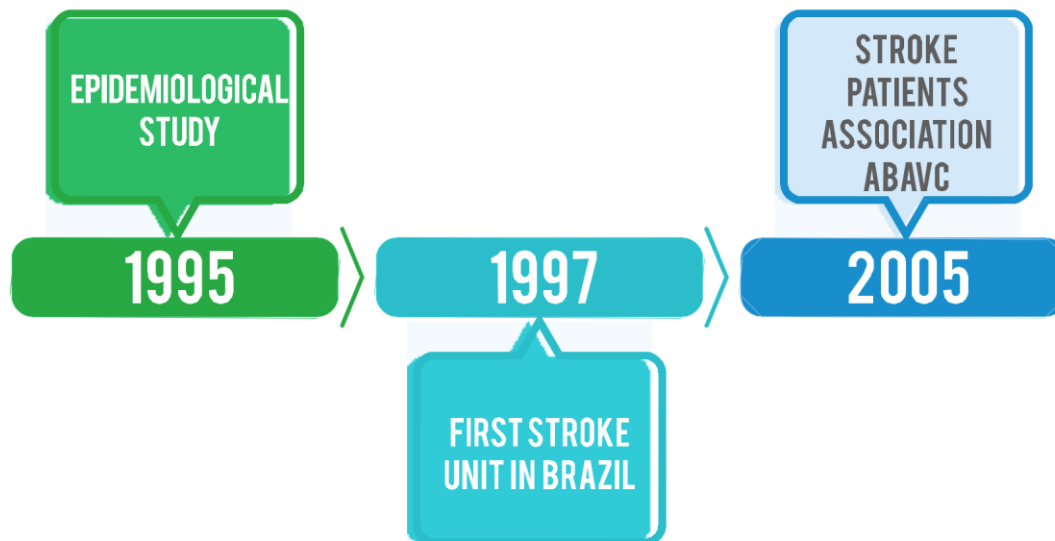
Stroke Registry

Populational Data



Stroke Support Association

Focus on Patients Needs



Multidisciplinary Stroke Unit

Standardization of Best Practices

The Three Essential Components of Joinvasc



Stroke Registry

Populational Data



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Multidisciplinary Stroke Unit

Standardization of Best Practices

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**STROKE
REGISTRY**



Stroke Registry
Populational Data



Multidisciplinary Stroke Unit
Standardization of Best Practices



Stroke Support Association
Focus on Patients Needs

The Three Essential Components of Joinvasc



Stroke Registry
Populational

Multidisciplinary Stroke Unit
Standardization of Best Practices

Stroke Support Association
Focus on Patients Needs

The Stroke Unit

Organized, multidisciplinary stroke care:

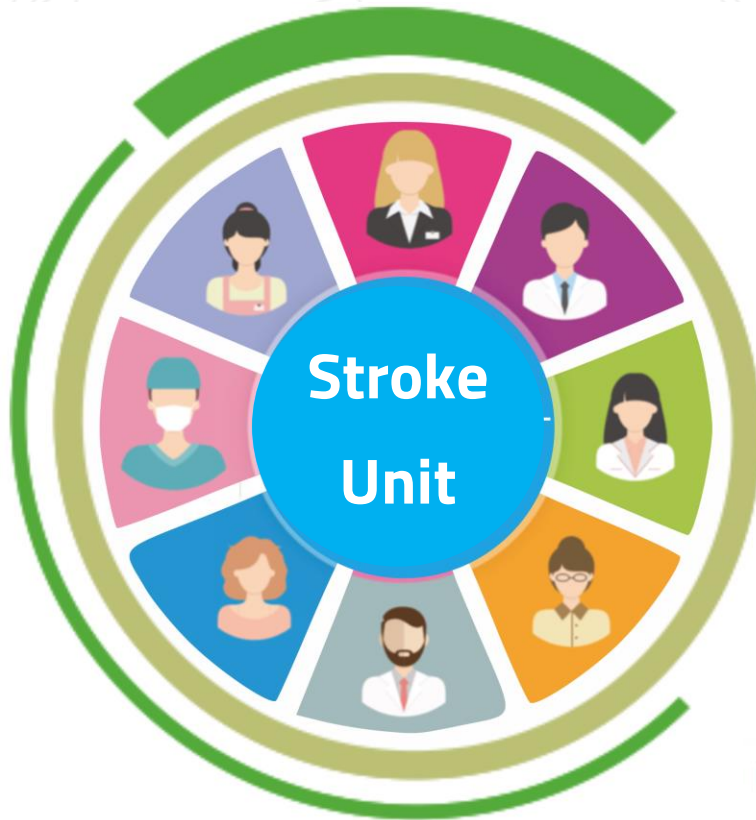
- Volume/scale;
- Care centered around the patient's needs and preferences
- Reduce mortality and improve recovery and independence;
- Data collection and care coordination;
- Continuum of care that extends from acute treatment to rehabilitation and beyond;
- Caring for patients in specialized units reduces costs



The Stroke Unit

Organized, multidisciplinary stroke care:

- Volume/scale;
- Care centered around the patient's needs and preferences
- Reduce mortality and improve recovery and independence;
- Data collection and care coordination;
- Continuum of care that extends from acute treatment to rehabilitation and beyond;
- **Caring for patients in specialized units reduces costs**



Safanelli J et al. The cost of stroke in a public hospital in Brazil

<https://doi.org/10.1590/0004-282X20190059>

ARTICLE

The cost of stroke in a public hospital in Brazil: a one-year prospective study

Table S4 Unit costs and average composition of costs by stroke type

Cost item	Unit costs	Emergency department	Intensive care days	Stroke unit
Hospital daily				
Emergency department	184.91	45,857.68
Intensive care days	304.62
Stroke unit	153.51	37,055.52	21,532.32	33,281.03 23,369.42

US Dollar
184.91
304.62
153.51

Hospital daily
Emergency department
Intensive care days
Stroke unit

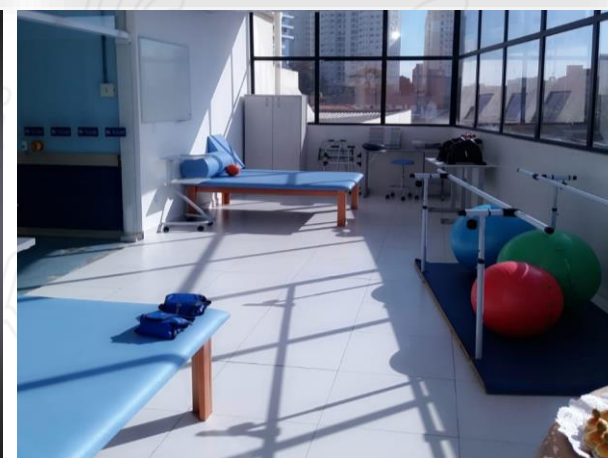


Multidisciplinary Stroke Unit

Standardization of Best Practices



The Stroke Unit





Multidisciplinary Stroke Unit

Standardization of Best Practices

Organized for the patient's needs
TIA and Stroke
Specialized multidisciplinary team
Responsibility for the hospital care cycle

The Stroke Unit





Multidisciplinary Stroke Unit Standardization of Best Practices

Bedside visits
Monthly presentation of indicators.
Formal / informal meetings = Process
Improvements (listening to the team)

The Stroke Unit



The Stroke Unit

UAVC



Reabilitação



The Stroke Unit

U AVC



Reabilitação



The Stroke Unit

Multidisciplinary Team Training



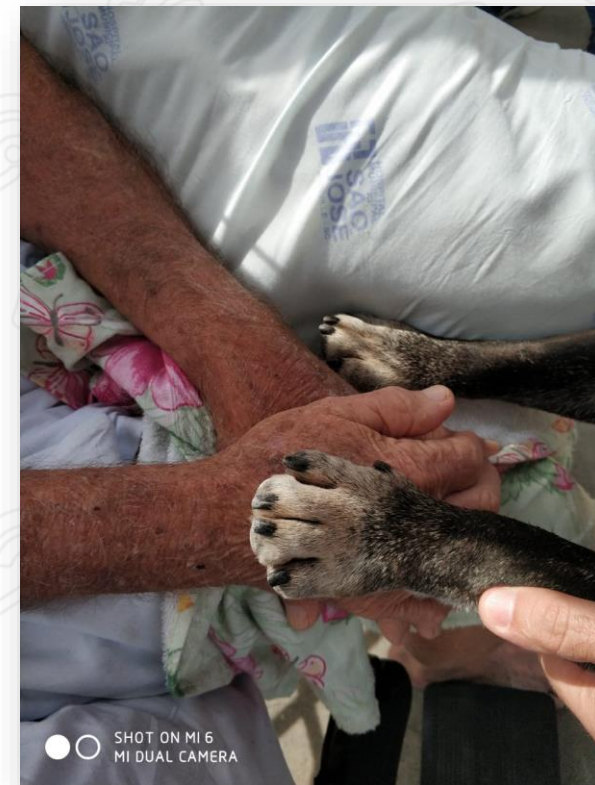
Shoulder care for hemiplegics



Palliative care



Cuidado Paliativo



The Stroke Unit



Certification
Stroke Centers
in **Latin America**



World Stroke
Organization



SIECV
SOCIEDAD IBEROAMERICANA DE
ENFERMEDAD CEREBROVASCULAR



STROKE CENTER QUALITY APPROVAL
WSO • SIECV

Centro Avançado de AVC
Hospital São José



Prefeitura de
Joinville



JOINVASC
Registro de AVC de Joinville



Associação Brasil AVC



HOSPITAL
MUNICIPAL
SÃO JOSÉ
JOINVILLE - PR

U AVC

Medical Residency Program in Neurology



Since 2006

Multidisciplinary Residency Program in Neurology

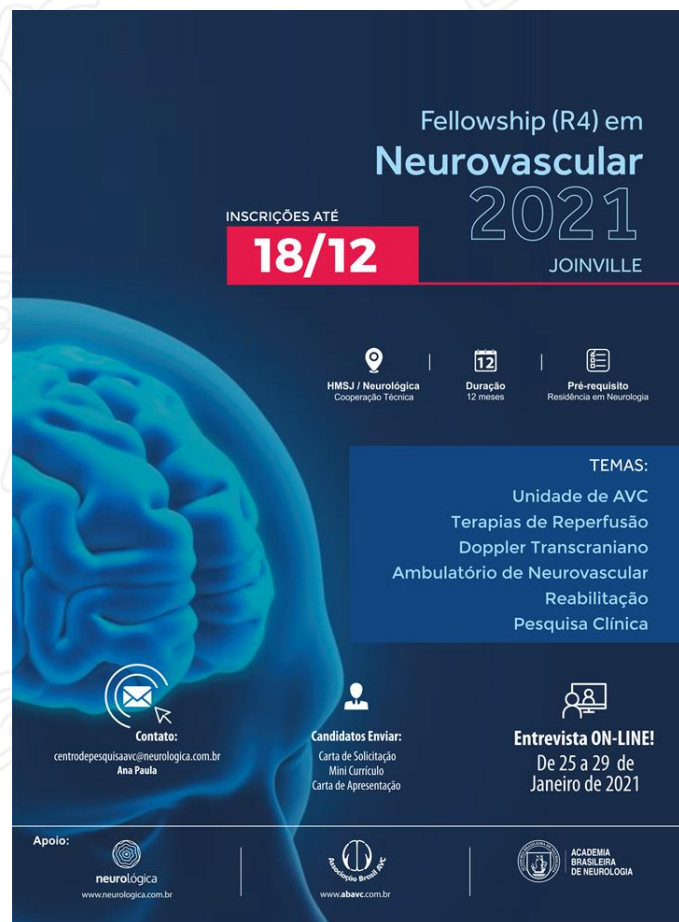


Nursing, Physiotherapy, Nutrition
Pharmacy / Psychology

Since 2014

Neurovascular Fellowship

Since 2009
Partnership Neurológica / HMSJ / ABAVC



Fellowship (R4) em
Neurovascular
2021
JOINVILLE

INSCRIÇÕES ATÉ
18/12

HMSJ / Neurológica
Cooperação Técnica

Duração
12 meses

Pré-requisito
Residência em Neurologia

TEMAS:
Unidade de AVC
Terapias de Reperusão
Doppler Transcraniano
Ambulatório de Neurovascular
Reabilitação
Pesquisa Clínica

Contato:
centrodepesquisaavc@neurologica.com.br
Ana Paula

Candidatos Enviar:
Carta de Solicitação
Mini Currículo
Carta de Apresentação

Entrevista ON-LINE!
De 25 a 29 de
Janeiro de 2021

Apoio:
neurologica
www.neurologica.com.br

Associação Brasil AVC
www.abavc.com.br

ACADEMIA
BRASILEIRA
DE NEUROLOGIA

University – Medicine course



Assistance: Stroke Unit
Research: NeuroCovid
Community: Interactive Exhibition



neuroológica
centro de pesquisa



Partnership Neuroológica / Stroke Unit

ProFess	Fase III	Prev. Secundária	2006-08	21
Perform	Fase III	Prev. Secundária	2006-10	83
Conscious	Fase III	HSA	2010	3
Clear III	Fase III	Hemorragia Intravent	2011-14	0
Masci	Fase III	AVC Ag	2011-12	5
Enchanted	Fase III	AVC Ag	2014-17	29
Respect	Fase III	Prev. Secundária	2015-18	8
Navigate	Fase III	Prev. Secundária	2016-18	11
Restore	Fase II	AVC Ag	2017-18	8
Thales	Fase III	AVC Ag	2018-19	32



neuroológica
centro de pesquisa

**Partnership Neuroológica
Stroke Unit**

Charm	Fase III	AVC Ag	2019...	0
Optimal	Fase III	Prev. Secundária	2019...	302
Axiomatic	Fase III	AVC Ag	2019...	2
Trident	Fase III	AVCH	2020....	11
Interact -2	Observac.	AVCH	2011-12	5
Area	Observac.	AVCI - Reabilitação	2014-17	29
Oceanic	Fase III	Prev. Secundária	Ongoing	
Librexia	Fase III	Prev. Secundária	Ongoing	
Resilent TNK	Fase III	AVC Ag	Ongoing	
Resilent Ext. IV	Fase III	AVC Ag	Ongoing	
Avert Dose	Fase III	AVCI - Reabilitação	Ongoing	



neuroológica
centro de pesquisa

**Partnership Neuroológica
Stroke Unit**

The Three Essential Components of Joinvasc



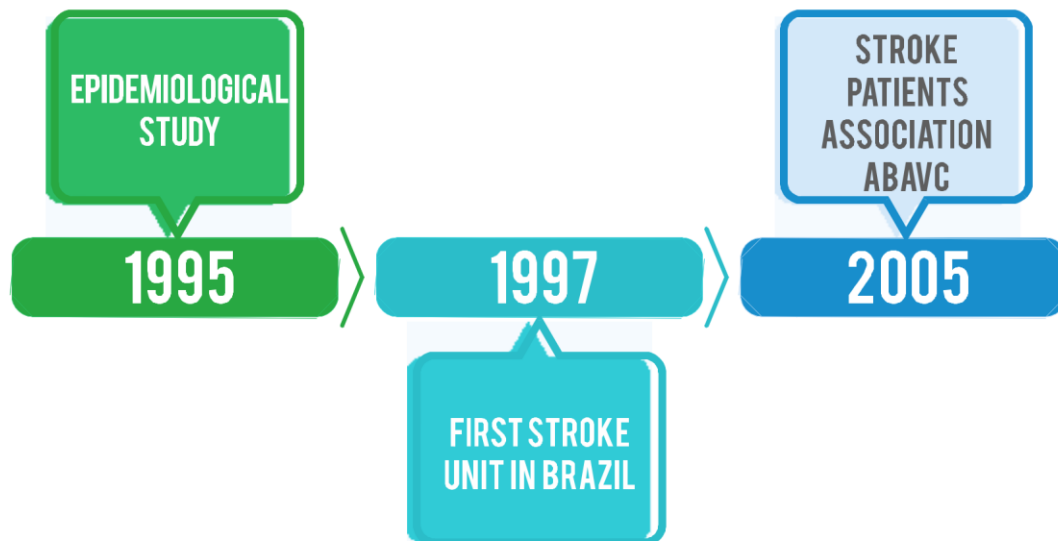
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Populational Data



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STROKE
SUPPORT
ASSOCIATION



Stroke Registry
Populational



Multidisciplinary Stroke Unit
Standardization of Best Practices



Stroke Support Association
Focus on Patients Needs

Stroke support organization



Desde 2005

abavc.org.br



Stroke organization that advocate priorities that **matters to patients;**

Link between **patients, managers, and healthcare teams;**

ABAVC has a representative in Joinvasc's management committee;

ABAVC has a permanent chair in the city's health council;

Stroke support organization



Desde 2005

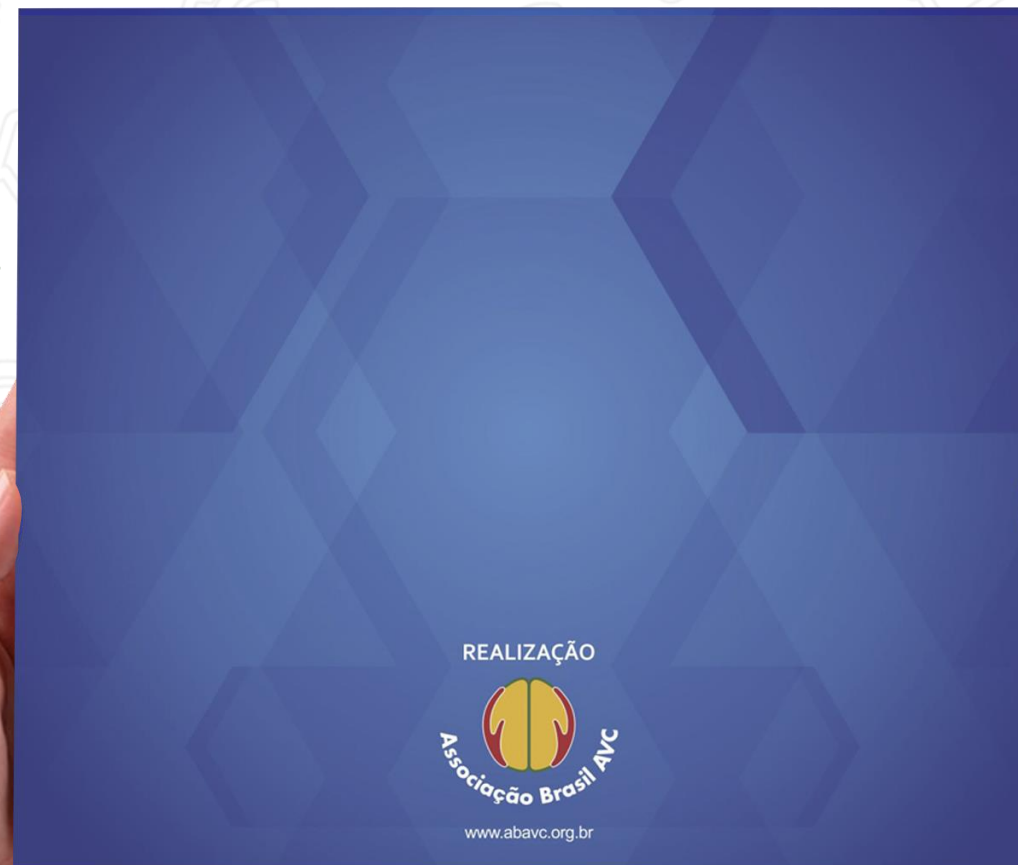
abavc.org.br

Develop Educational Material:

- Population
- Schools
- Multidisciplinary team
- Patients and caregivers

Stroke support organization

**Patient and and
Caregivers informatives**



Disponível em: www.abavc.org.br

Stroke Support Association

Online course



Stroke Support Association

Online course





REABILITAÇÃO NO PÓS-AVC

COM ENFOQUE NA
REABILITAÇÃO FÍSICA

Coordenação:
CARLA HELOISA CABRAL MORO
FABIANE MARIA KLITZKE DOS SANTOS



Get to know the course:
Post stroke rehabilitation
focusing on physical rehabilitation



Educational Program – Annual Stroke Campaign



Educational Program – Annual Stroke Campaign

Campanha de AVC do SAMU 192

Aprenda sinais de AVC,
eles iniciam repentinamente

Sorriso

Peça
para
dar um
sorriso



Boca torta

Arrebrace

Peça
para
eivar o
braço



Perda de força

Música

Repita
a frase
como uma
música



Dificuldades na fala

Urgente



Ligue SAMU 192

Stroke Support Association

Annual Stroke Forum

Brings together all stakeholders:

- Patients, caregivers, and family members
- Community representatives
- Health care professionals
- Hospital leaders
- Managers



**Fórum
Regional do AVC
2017**



Annual Stroke Forum



Annual Stroke Forum



Stroke support association



Desde 2005

abavc.org.br

Sponsored :

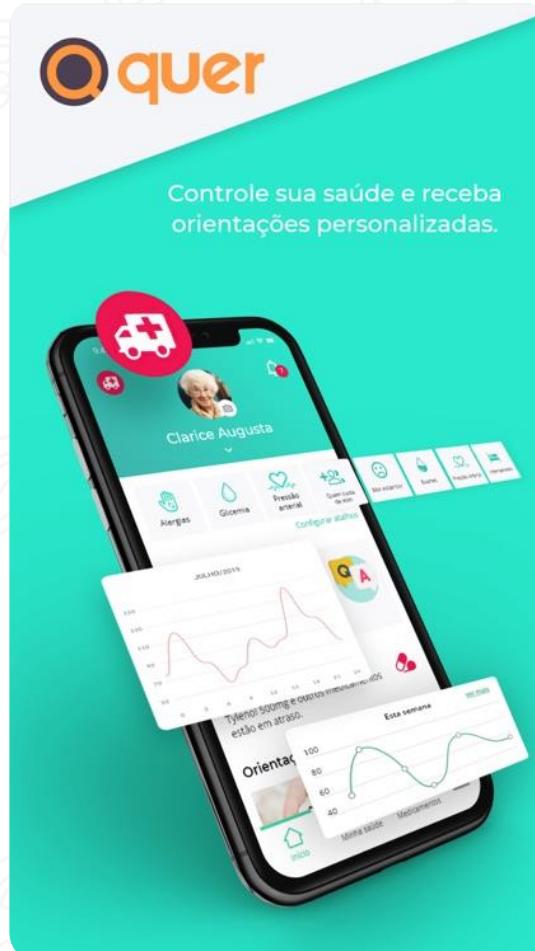
Database upgrade and maintenance

QUER NO AVC project – PUC Pr's partnership
(Patient follow -up app).

Innovation



Quer NO AVC



Quer NO AVC?

Health care monitoring app

Benefits

- Increase patient engagement.
- Stimulate self-care.
- Optimization the work of health professionals.



EXPOSIÇÃO
interativa
do **AVC**



Educational Program - community


EXPOSIÇÃO
interativa
do AVC
2021

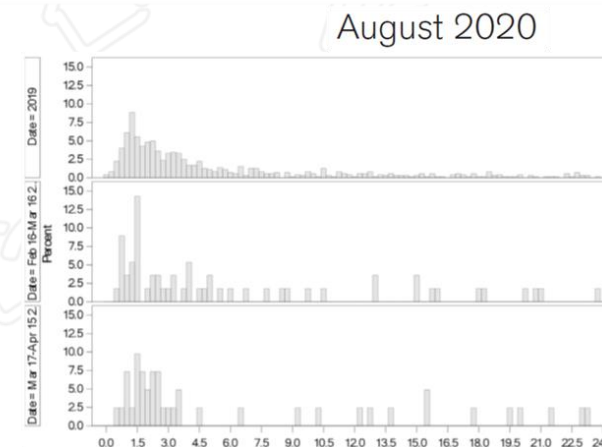
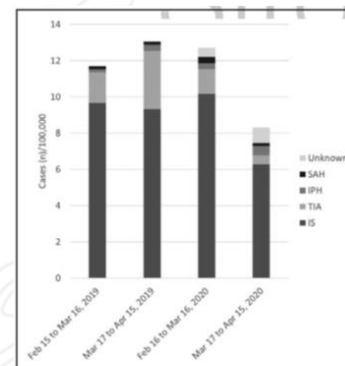
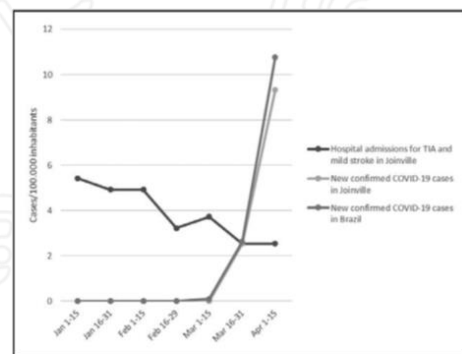


Joinvasc Stroke Registry x Stroke Support Association

Stroke

Decrease in Hospital Admissions for Transient Ischemic Attack, Mild, and Moderate Stroke During the COVID-19 Era

Henrique Diegoli , MD; Pedro S.C. Magalhães, MD; Sheila C.O. Martins, PhD; Carla H.C. Moro, MD; Paulo H.C. França, PhD; Juliana Safanelli, RN, MSc; Vivian Nagel, RN, PhD; Vanessa G. Venancio, RN; Rafaela B. Liberato, MSc; Alexandre L. Longo, MD

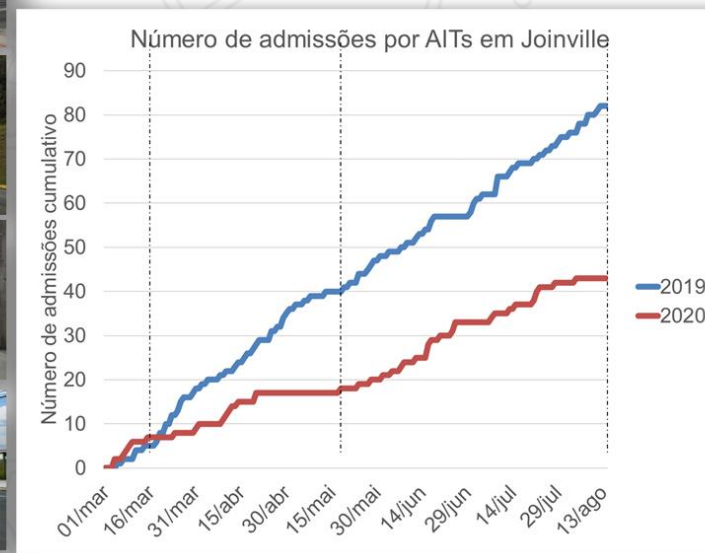


Joinvasc Stroke Registry x Stroke Support Association



#AVC
NAO
FIQUE EM
CASA

Joinvasc Stroke Registry x Stroke Support Association



Education / Stroke Support Association

Stroke + mathematics = learned in double dose

Elementary school



Education / Stroke Support Association

Stroke + mathematics = learned in double dose

Mail 4G 10:00



World Stroke
Organization



**Stroke +
Mathematics =
learned in double
dose!**

14 Jun 2022 | Stroke awareness | Stroke prevention

Associação Brasil AVC finds innovative ways to reach young people with the stroke prevention message.

AA world-stroke.org



EDUCANDO PARA A CIDADANIA

EDUCANDO PARA A CIDADANIA

Atividades Contextualizadas para o Ensino de
Estatística no Ensino Fundamental

Tathiane Gonçalves Rodrigues Souza

ÍNDICE

Apresentação

03

- Educação não transforma o mundo. Educação muda as pessoas. Pessoas transformam o mundo.
Paulo Freire

Capítulo 1

04

- Introdução
- Acidente vascular cerebral
- Estatística no ensino fundamental
- Educação matemática crítica
- Cenários de investigação
- Ensino de estatística

Referências

17

- Referências bibliográficas

Capítulo 2

18

- Cenário 1
- Cenário 2
- Cenário 3
- Cenário 4

Sugestões

36

- Filme : O Escafandro e a Borboleta
- Filme : Sem Palavras

Considerações

38

- Considerações finais



AVC em números

O Acidente Vascular Cerebral (AVC) é uma emergência médica e exige socorro imediato.



Entenda porquê.

1 morte a cada **6** segundos no mundo

A cada **4** pessoas, **1** sofrerá um AVC em algum momento da vida



Pode ocorrer com qualquer pessoa em qualquer idade



1 Minuto perdido

Perda de **1.9** Milhão de neurônios



Haja rápido, tempo perdido é cérebro perdido!

Na suspeita de um AVC Ligue: **SAMU 192**



Saiba mais sobre AVC

www.abavc.org.br

2. Uma associação beneficente irá sortear uma cadeira de rodas para 7 pessoas (4 homens e 3 mulheres) que precisam de cadeira de rodas.

a) Qual a probabilidade de uma pessoa ser sorteada?

b) Qual a probabilidade de um homem ser sorteado?

c) Qual a probabilidade de uma mulher ser sorteada?

O que é Placebo?

Placebo é qualquer substância ou tratamento inerte (ou seja, que não apresenta interação com o organismo) empregado como se fosse ativo. Na medicina, injeções de soro fisiológico e comprimidos de açúcar são dos placebos mais usados.



3. Em uma pesquisa para tratamento do AVC, há 50 pessoas, dessas 20 pessoas irão receber placebo* e 30 pessoas irão receber o novo medicamento.

a) Qual a probabilidade de receber placebo?

b) Qual a probabilidade de receber a medicação?

Education / Stroke Support Association

Since 2024 –
Implementation in the Learning Progression Map

- all municipal schools (54)
- seventh year of elementary school
- in the curricular components of mathematics,
natural sciences
physical education

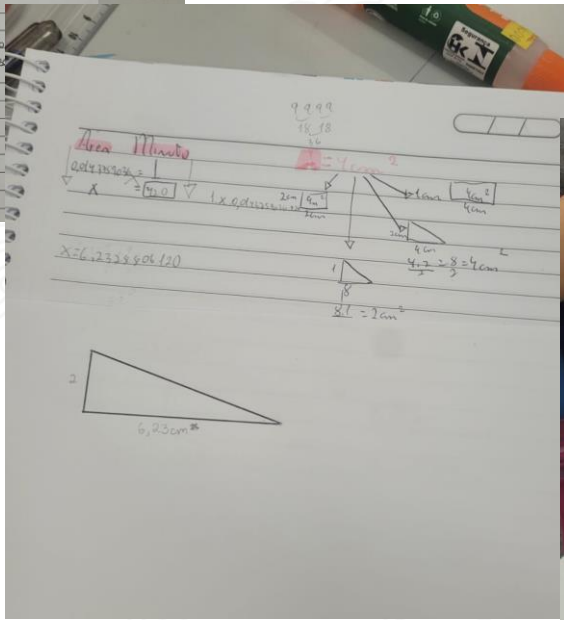
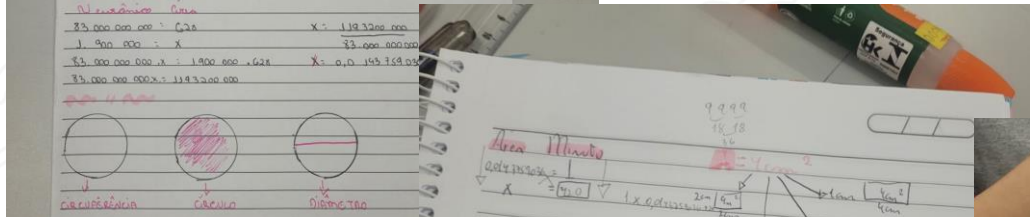
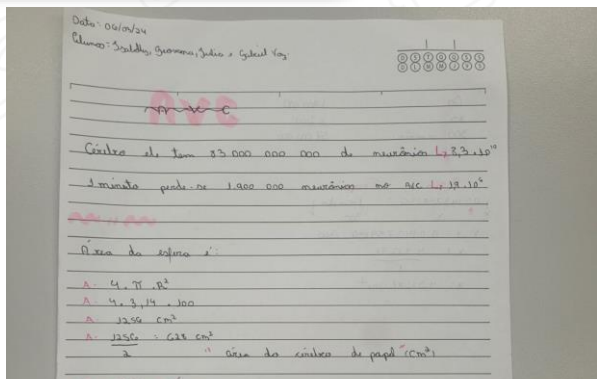
Education / Stroke Support Association

Teacher's training

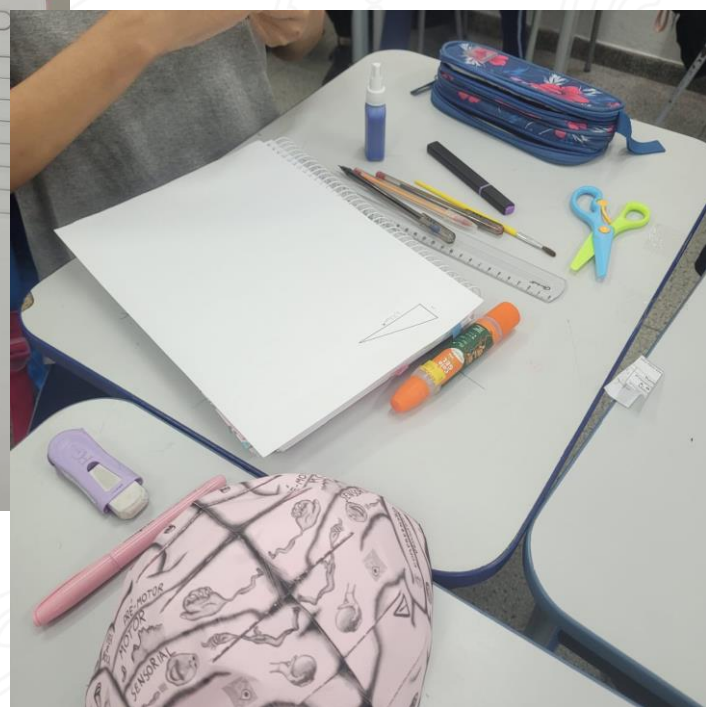


Education / Stroke Support Association

Brain helmet



Classroom activities



Education / Stroke Support Association

Presentation of acquired knowledge to other students



Education / Stroke Support Association

Robotic project / entrepreneurship / design thinking
High School



Education / Stroke Support Association

Robotic project / entrepreneurship / design thinking
High School

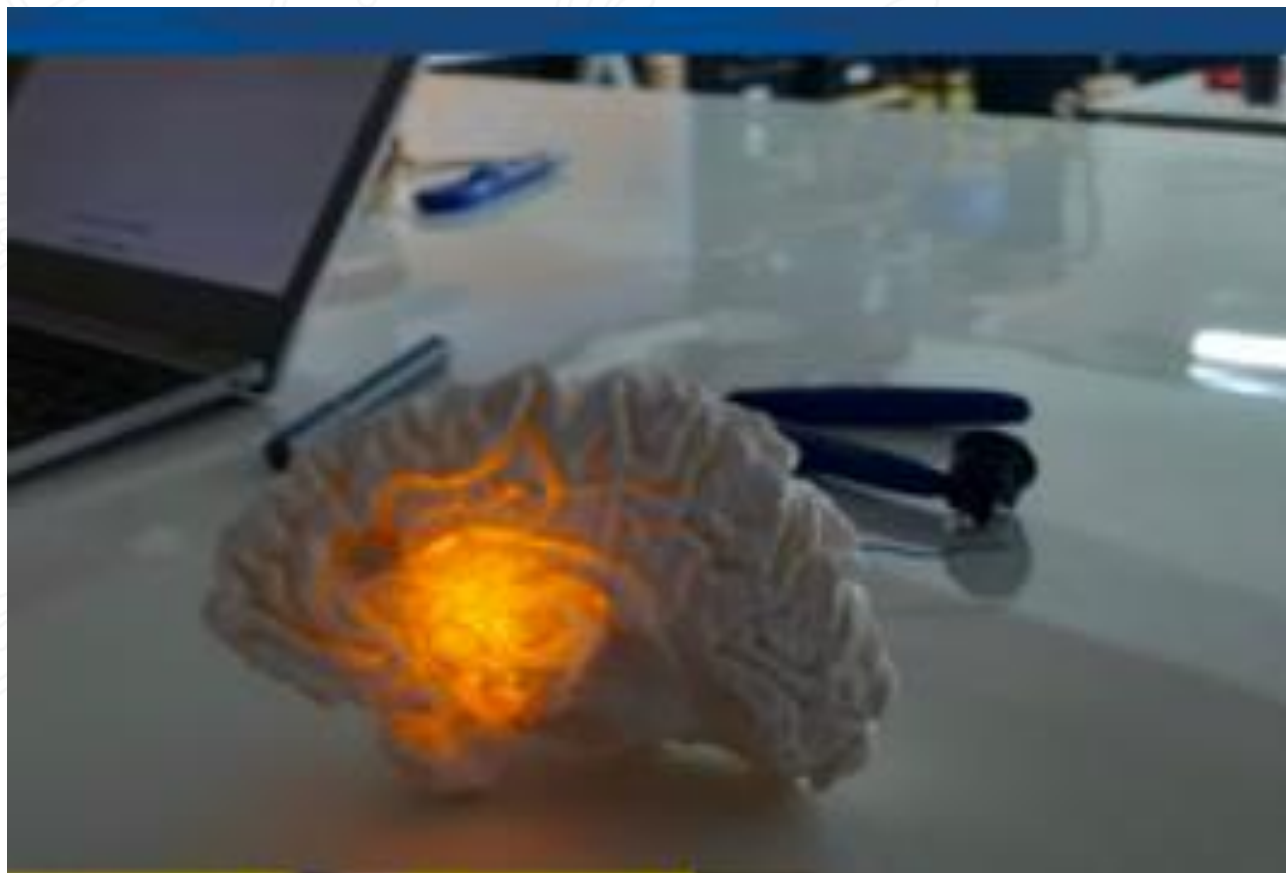


Education / Stroke Support Association

Robotic project / entrepreneurship / design thinking
High School



Lighting corresponding to injured area



For a healthy and tobacco free life

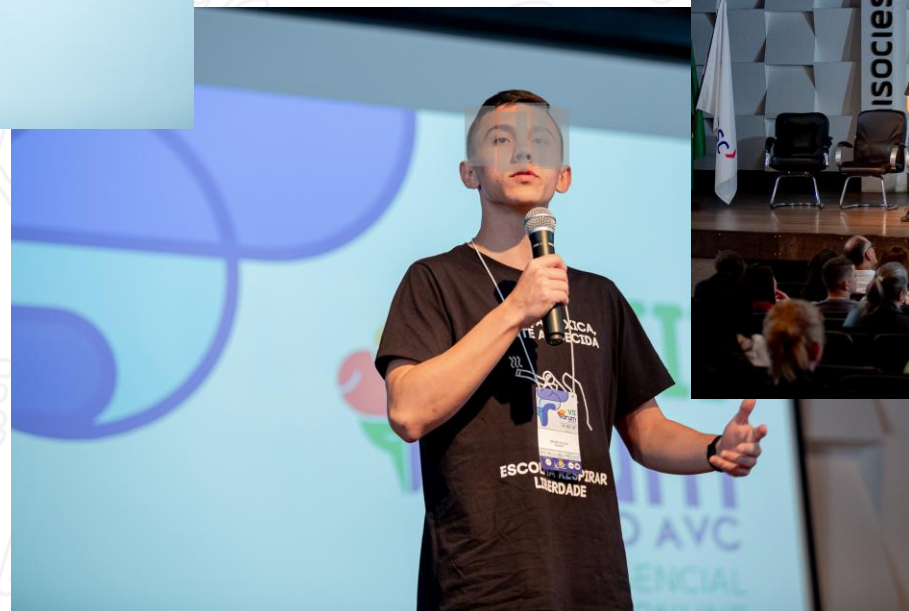
Game development

- High School – Escola S -
Mecânica, dinâmica e estática
- University - UniSenai -
Programação



Enemies

For a healthy and tobacco free life



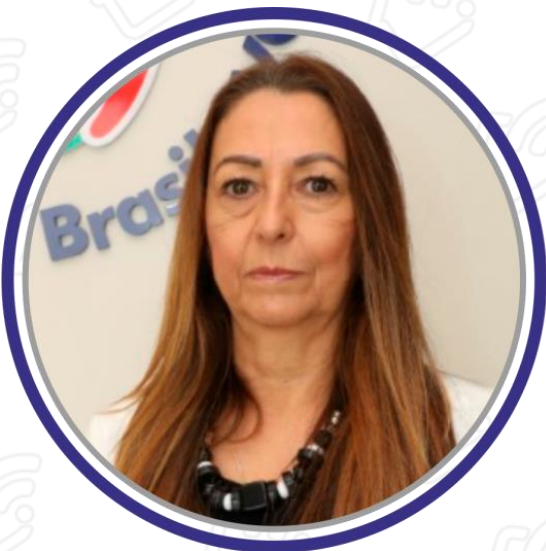
For a healthy and tobacco free life



Active participation in the round table with managers
Coordination's of Primary Care Tabagism Program, School
Director, Professor, Pneumologist and Neurologist

Patient Navegation - Stroke Support Association

Service: In -person - Online - WhatsApp - Home



Mary
Physiotherapist



Hanna
Nurse



Claudinéia
Social worker

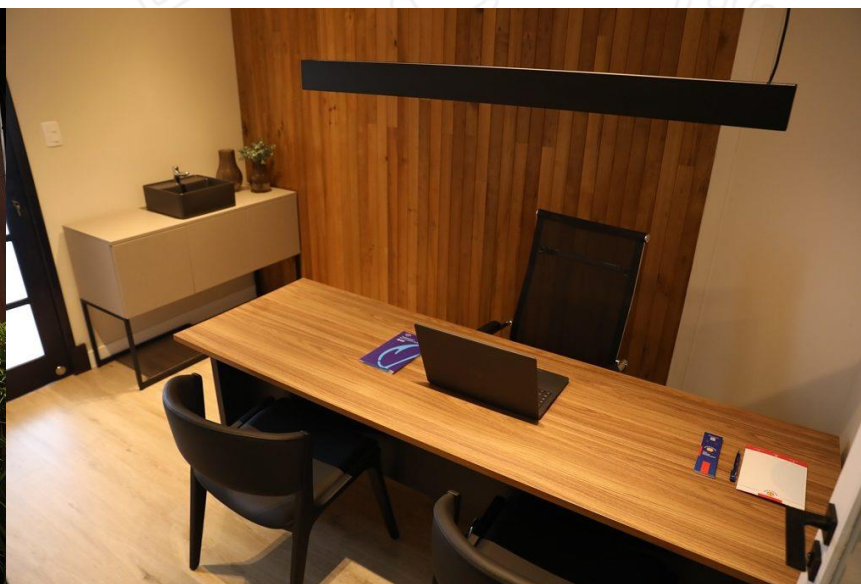


Isabel
High school
student

Support for patients and caregivers in Stroke Care Navigation

Patient Navegation - Stroke Support Association

Service: In -person - Online - WhatsApp - Home



Support for patients and caregivers in Stroke Care Navigation



www.abavc.org.br

Desde 2005



Partnerships

Secretaria da Saúde



 **univille**



neurologica

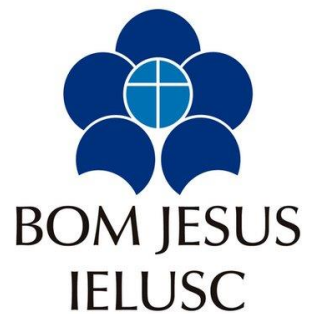


GOVERNO DE SANTA CATARINA

Secretaria de Estado da Saúde



PUCPR



Laws



www.LeisMunicipais.com.br

LEI Nº 5526, de 17 de julho de 2006.

**RECONHECE DE UTILIDADE PÚBLICA MUNICIPAL
A ASSOCIAÇÃO BRASIL AVC .**



www.LeisMunicipais.com.br

LEI Nº 7448, DE 12 DE JUNHO DE 2013.

**INSTITUI O BANCO DE DADOS REGISTRO DE ACIDENTE
VASCULAR CEREBRAL - AVC DE JOINVILLE E DÁ OUTRAS
PROVIDÊNCIAS.**

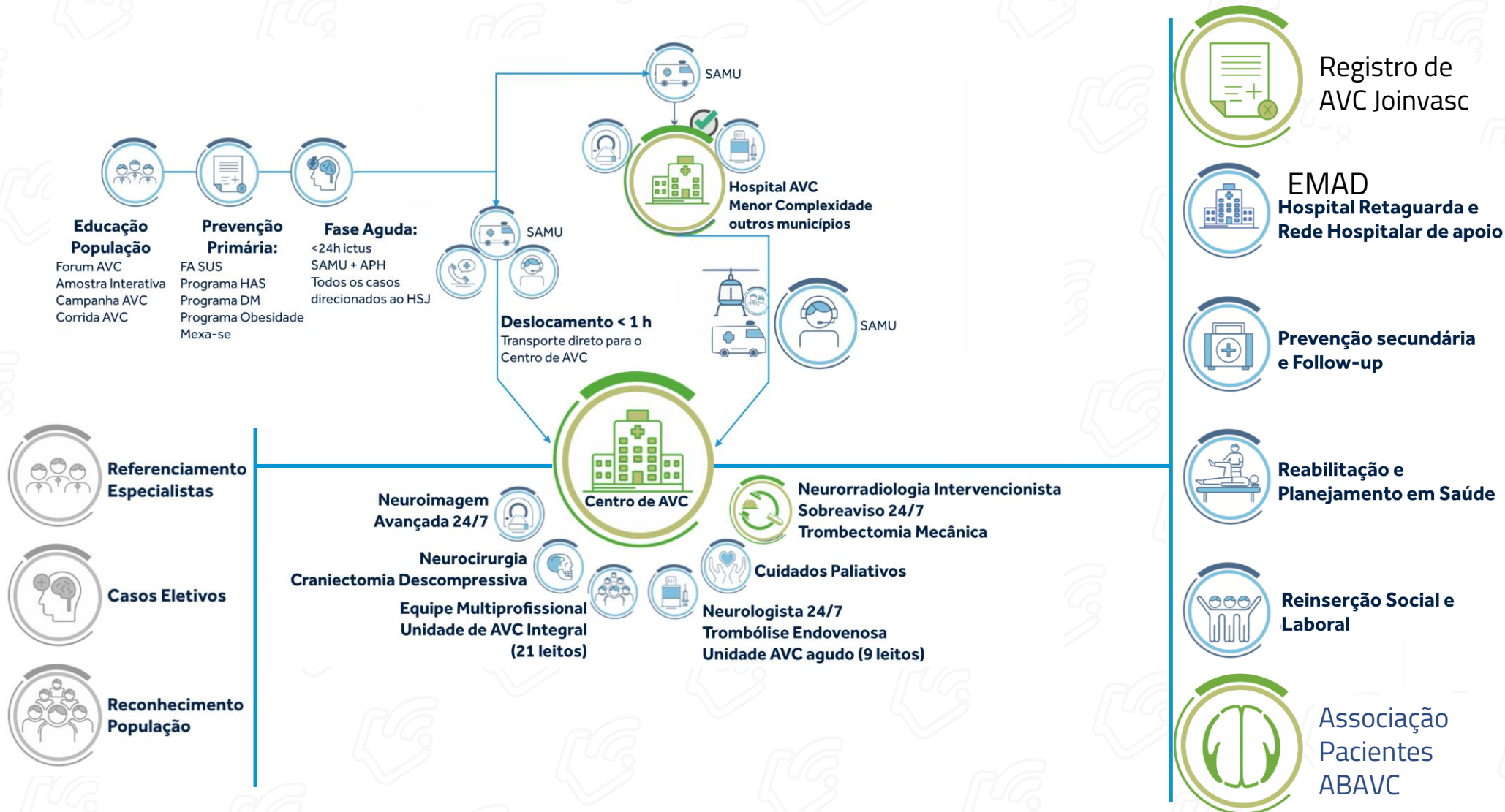


www.LeisMunicipais.com.br

LEI Nº 8266, DE 19 DE JULHO DE 2016.

**Institui o "Dia de Combate ao Acidente Vascular
Cerebral - AVC " no Município.**

Joinville's Stroke Care Line

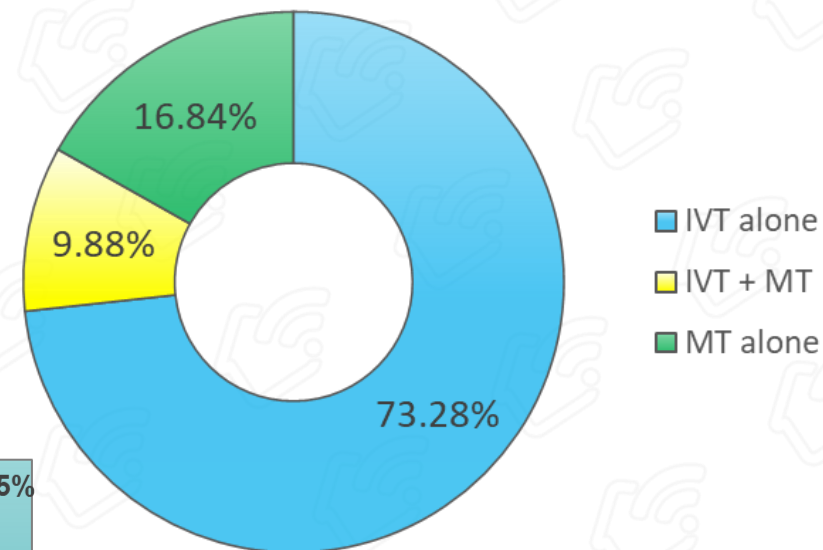
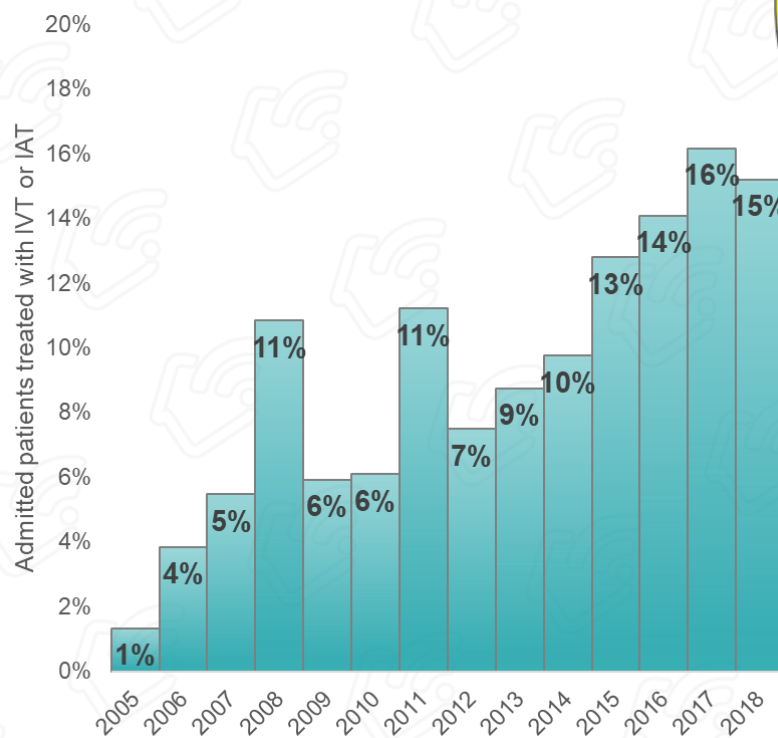
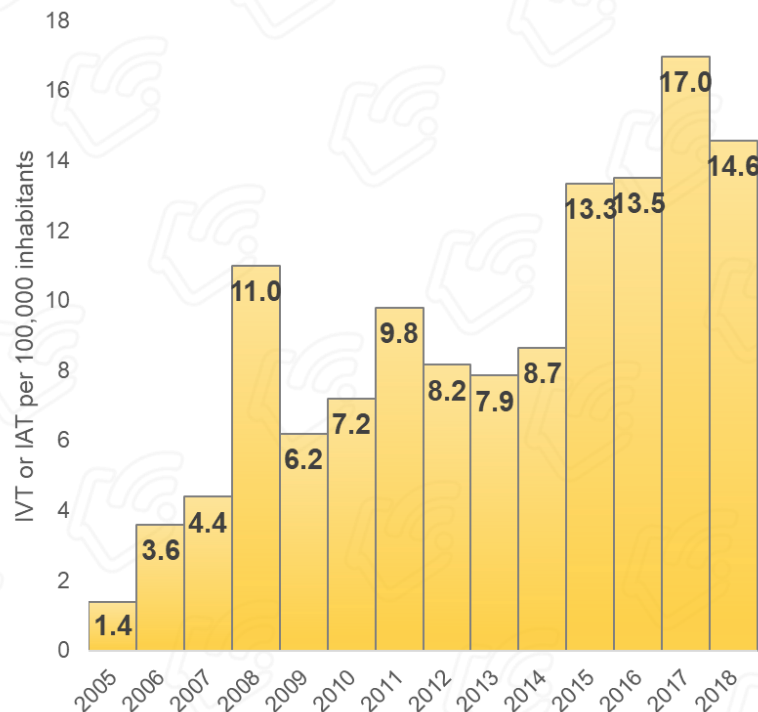


Joinvasc's results

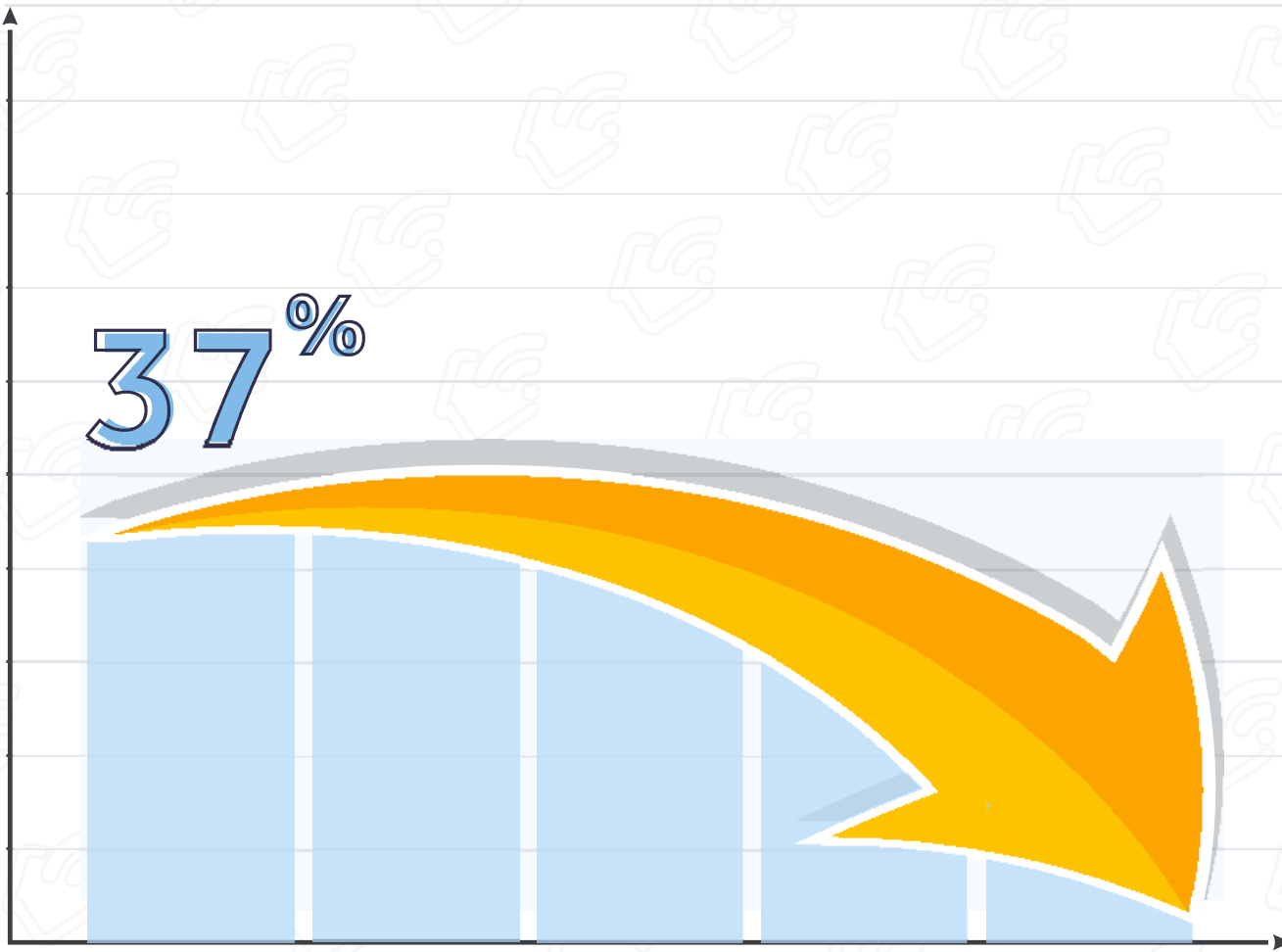


Joinvasc Results

More than >10x thrombolysis

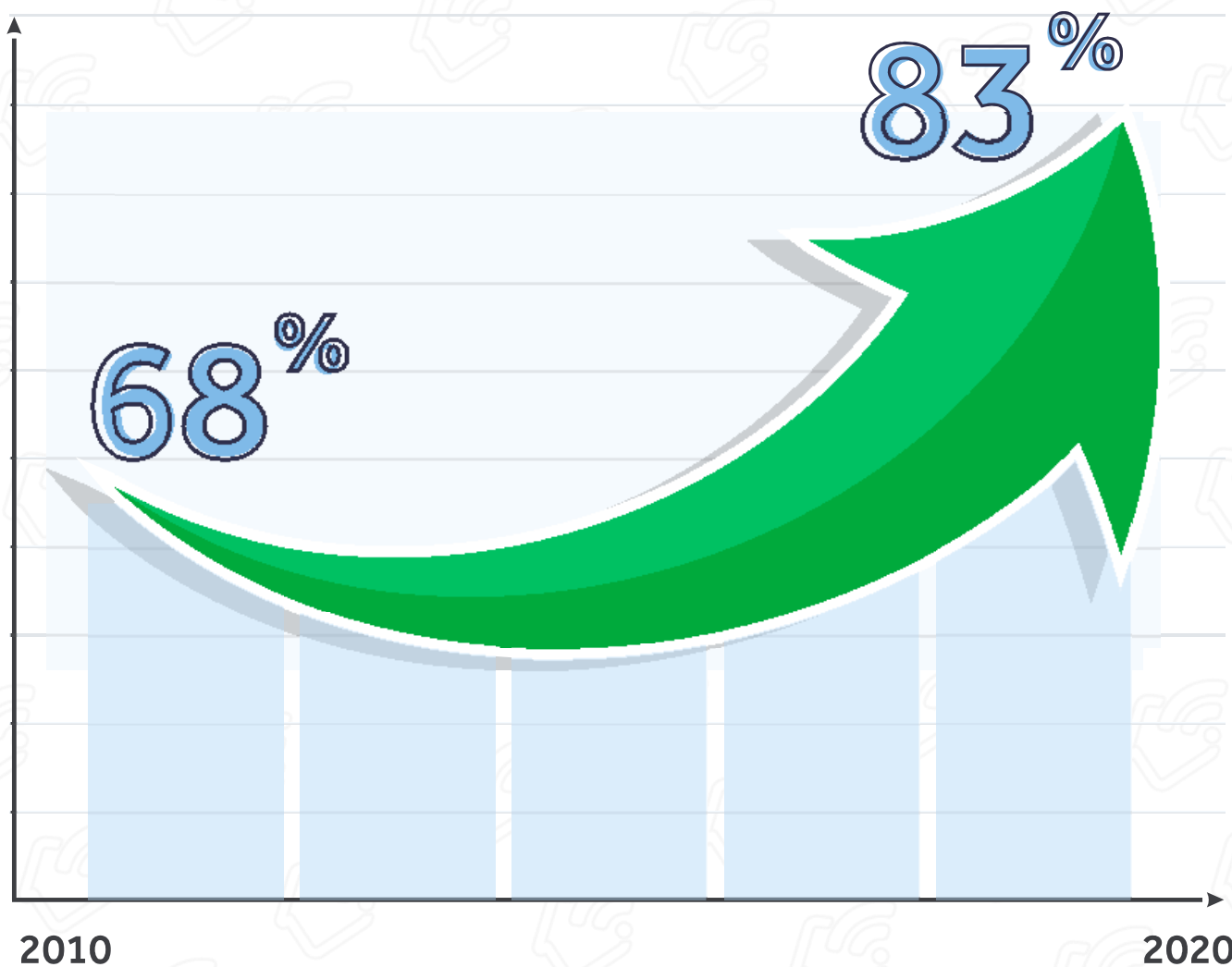


Joinvasc's results



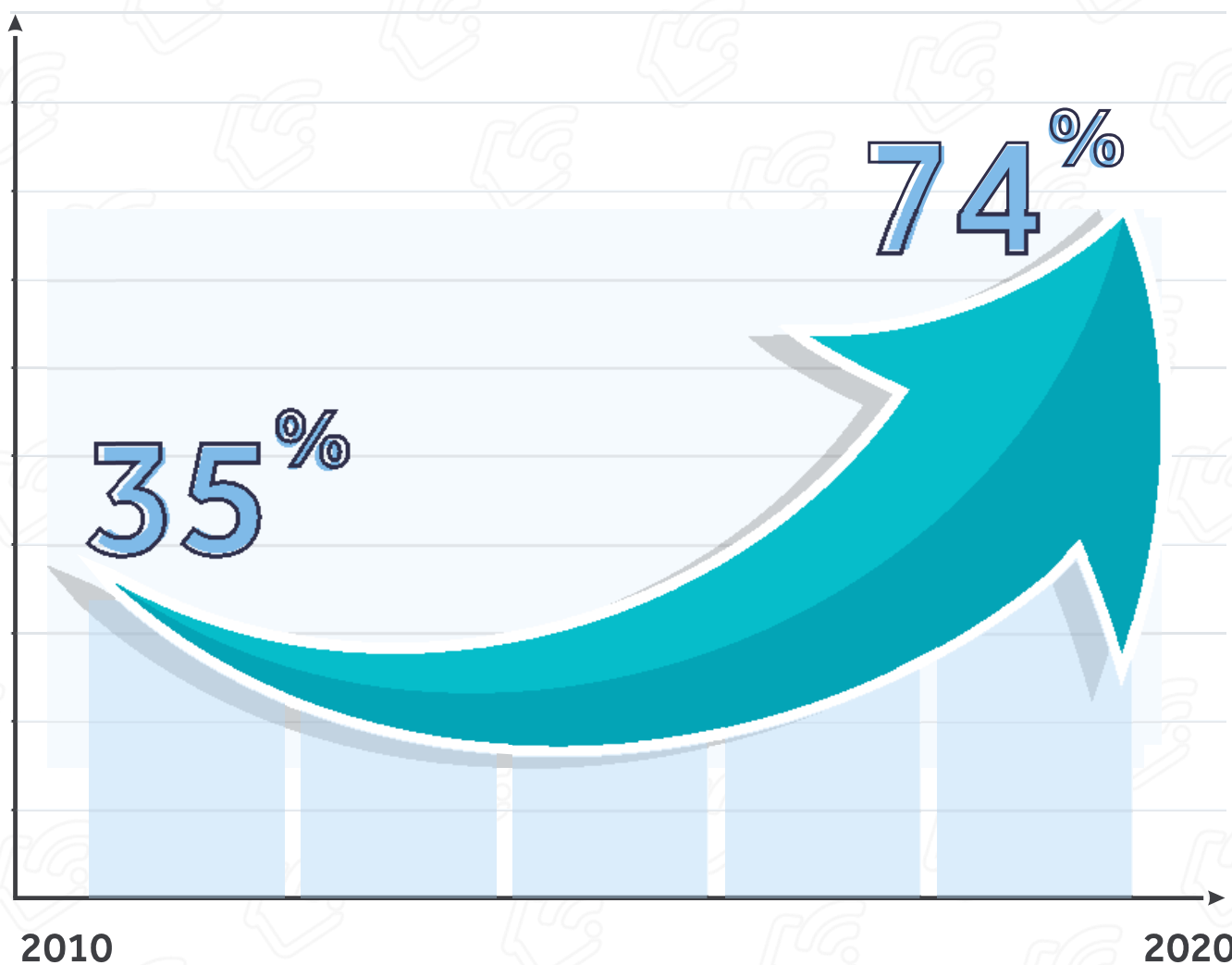
**37% reduction in
stroke incidence**

Joinvasc's results



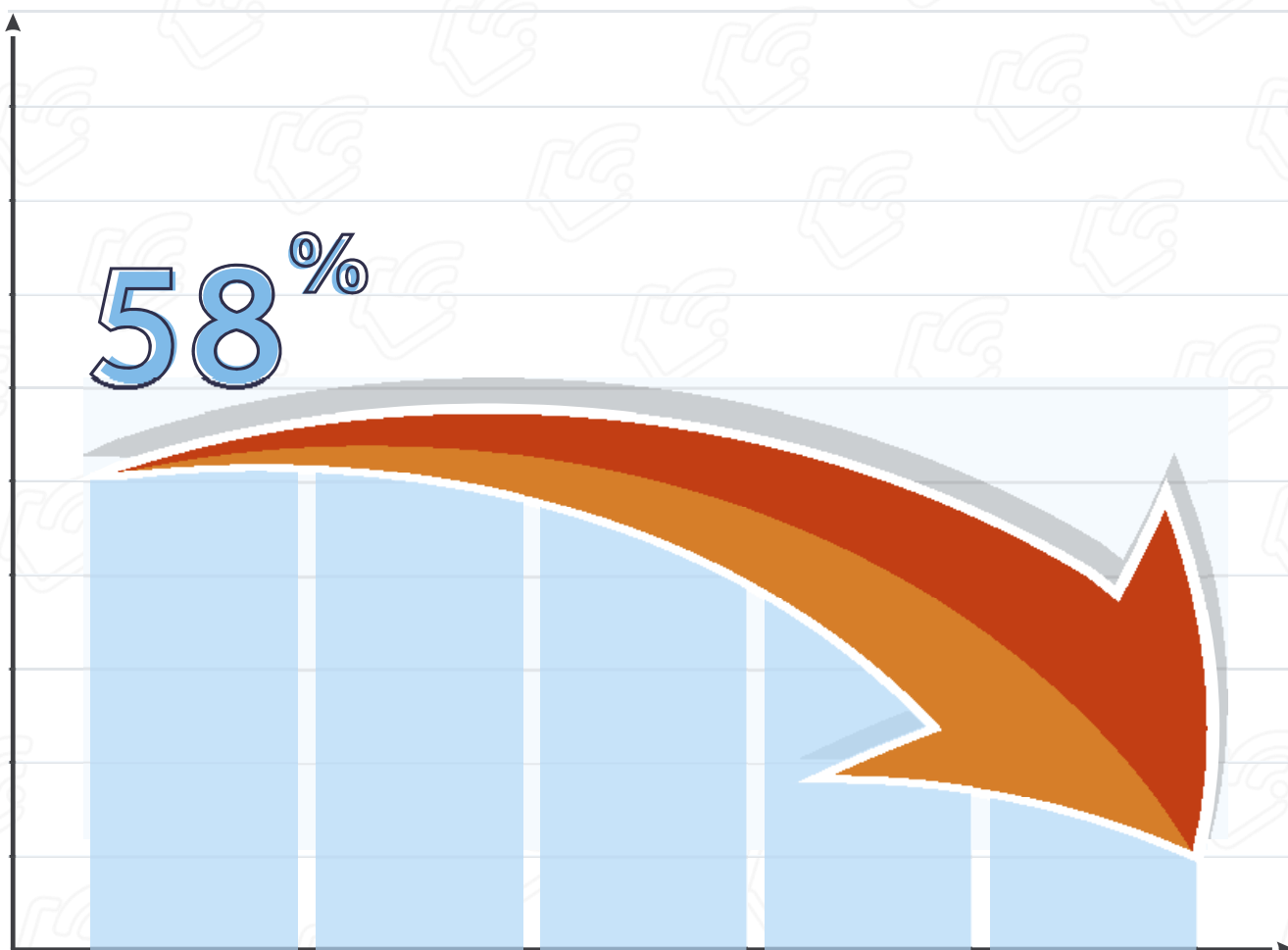
**83% of stroke patients
admitted to the IPU**

Joinvasc's results



**Increased functional
improvement after a severe
stroke**

Joinvasc's results

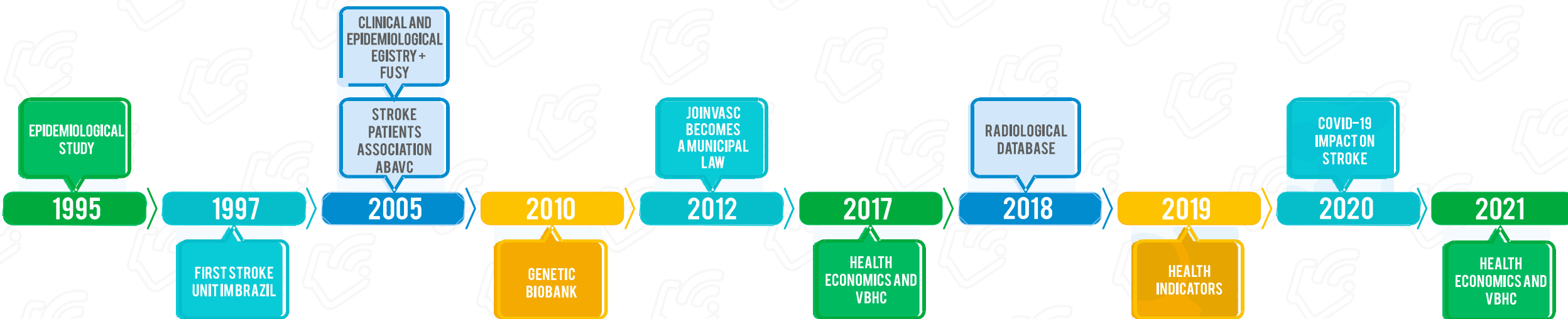


58% reduction in stroke lethality over the last 25 years

Joinvasc Stroke Program Timeline



JOINVASC



25 anos de melhorias contínuas baseadas nas necessidades dos PACIENTES

2021 Winner of the VBHC Prize

The VBHC Prize **rewards and recognizes** inspiring initiatives that have adopted a fundamentally new line of thinking in creating excellent patient value in terms of real outcomes, real connections, and one common language. Each year, one excellent initiative is awarded the VBHC Prize, a prestigious prize awarded by a renowned international jury.

Joinvasc Stroke Program

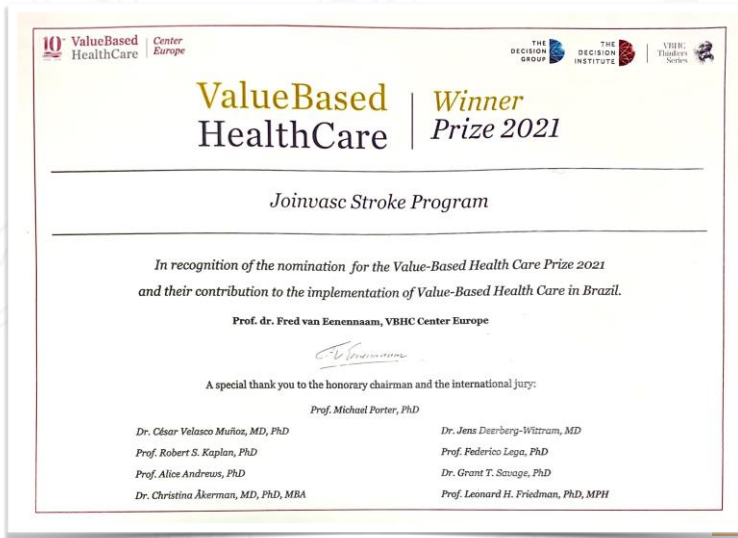


JOINVASC
Joinville Stroke Registry

A VBHC Stroke Care Program

Value based health care

2021 Winner of the VBHC Prize



"This year's winner is a clear front-running in a very important field, measuring in a broad spectrum the outcomes in the whole cycle of care for stroke patients"

Joinvasc Value-driven Stroke Program

2023 NEJM Catalyst publication: Case of Innovation in Care Delivery

 NEJM

Catalyst | Innovations in Care Delivery

CASE STUDY

Joinvasc: Organizing the Full Cycle of Stroke Care with Universal Coverage

Henrique Diegoli, MD, MSc, Pedro Magalhães, MD, MBA, Márcia Makdisse, MD, PhD, MBA, Carla Heloísa Cabral Moro, MD, Paulo França, PhD, Alexandre Longo, MD



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Ciclo de cuidado ao AVC: Experiência Joinvasc – Stroke Program

Carla Heloisa Cabral Moro