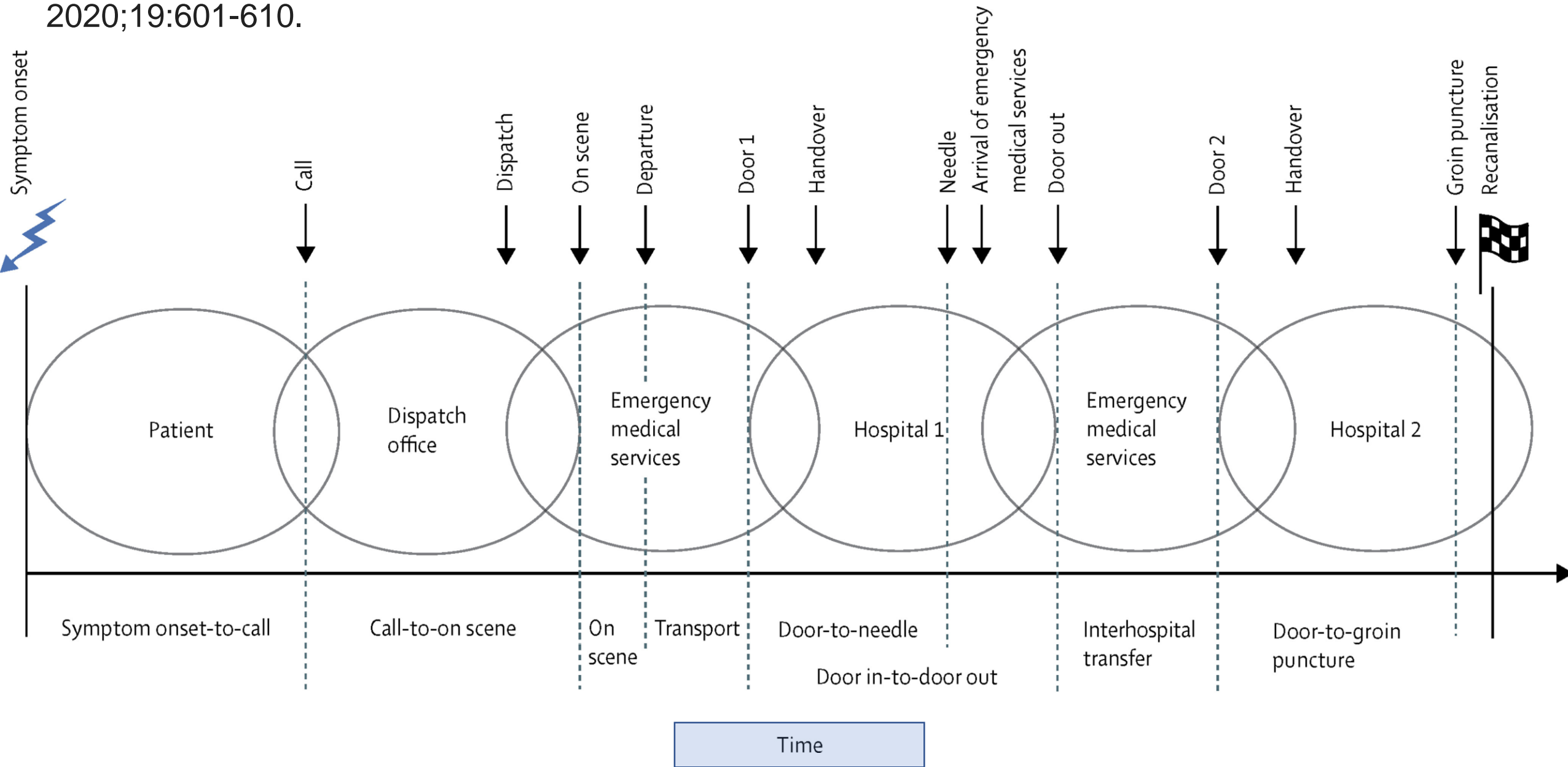


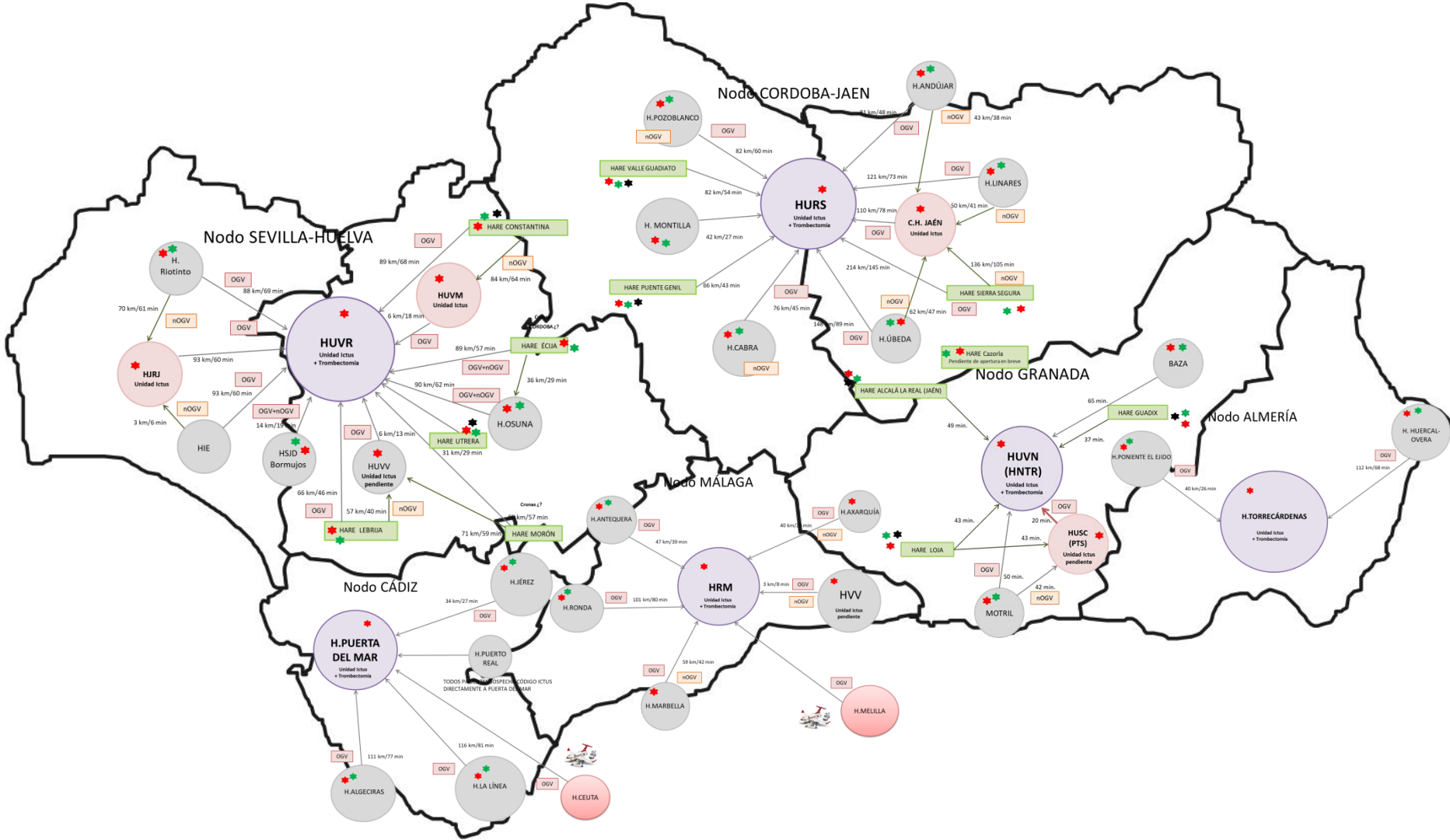


Las ambulancias del futuro serán verdaderos hospitales móviles, hiperconectadas, en las que se acelerará el diagnóstico, se iniciará el tratamiento y se hará más eficiente el *delivery* al hospital receptor más adecuado.

Fassbender K, et al. **Prehospital stroke management in the thrombectomy era.** *Lancet Neurol.* 2020;19:601-610.

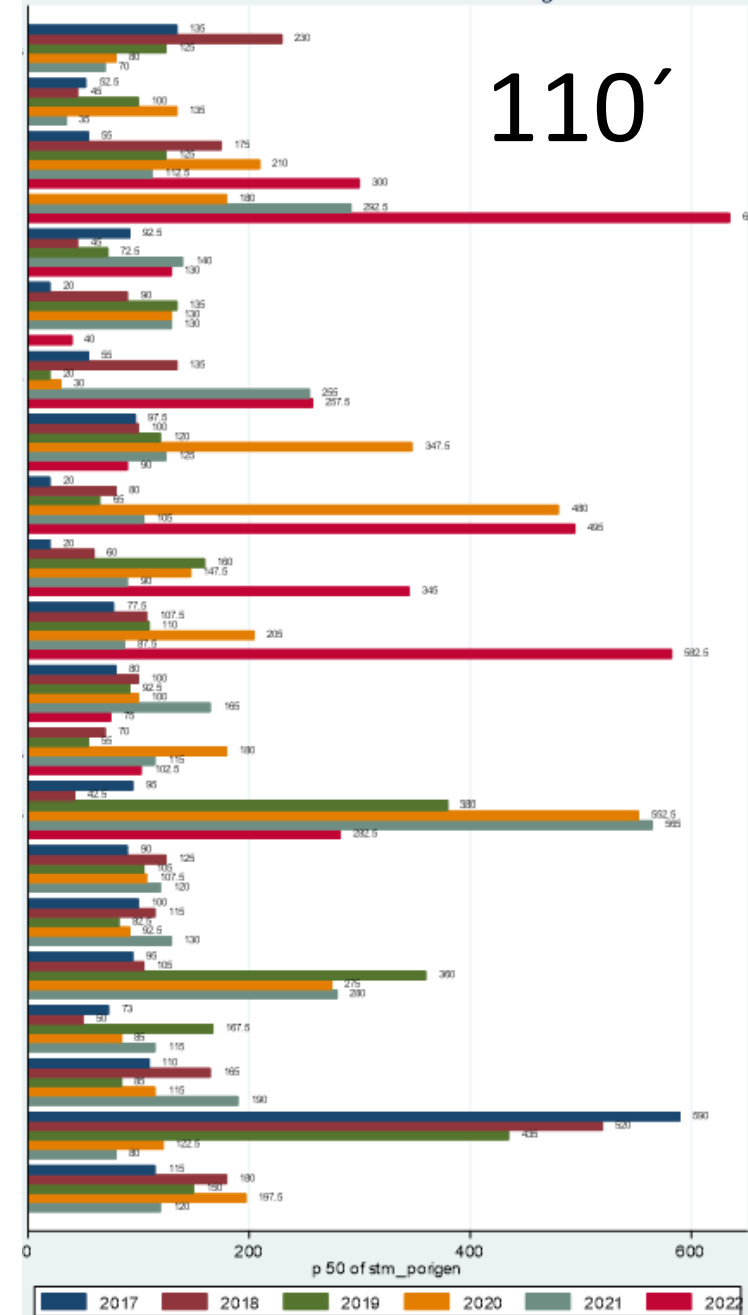


Andalusian Stroke Network



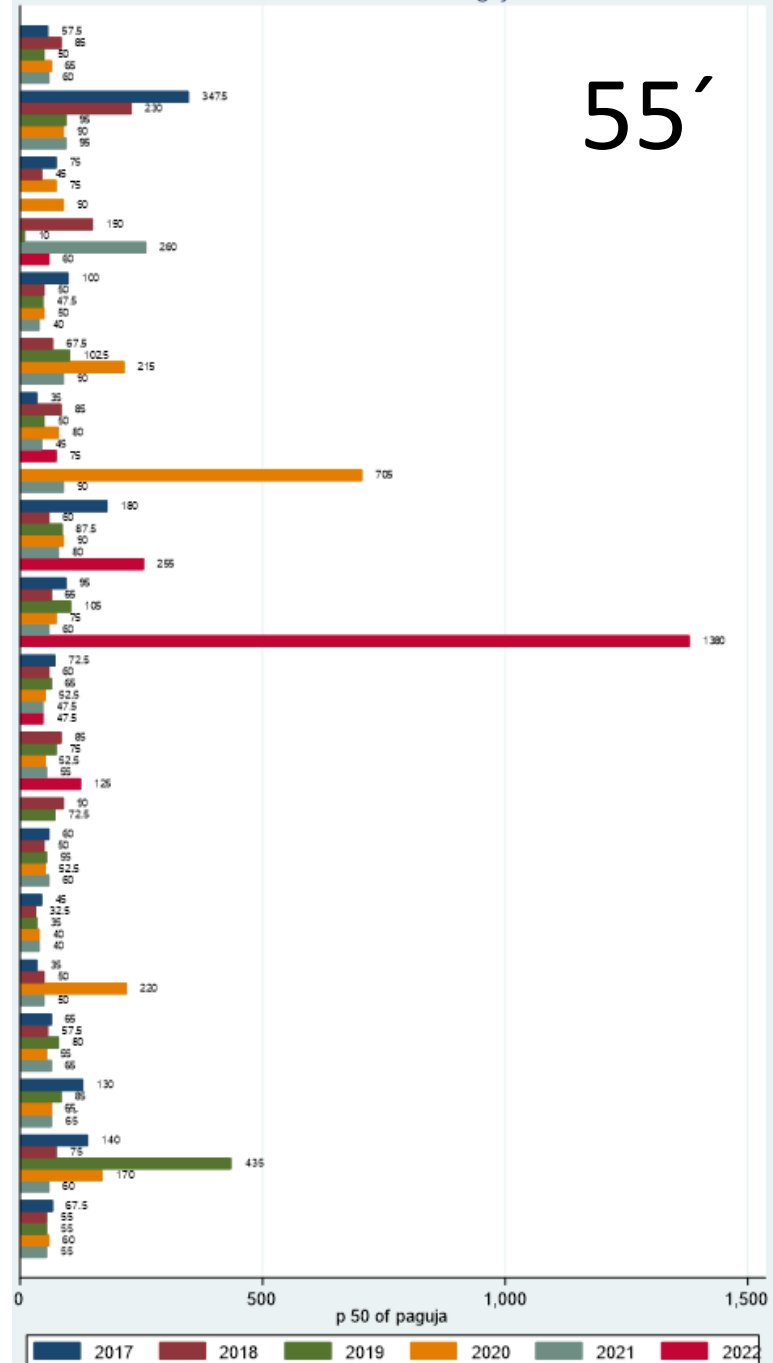
Mediana de Sintomas-Puerta origen

110'



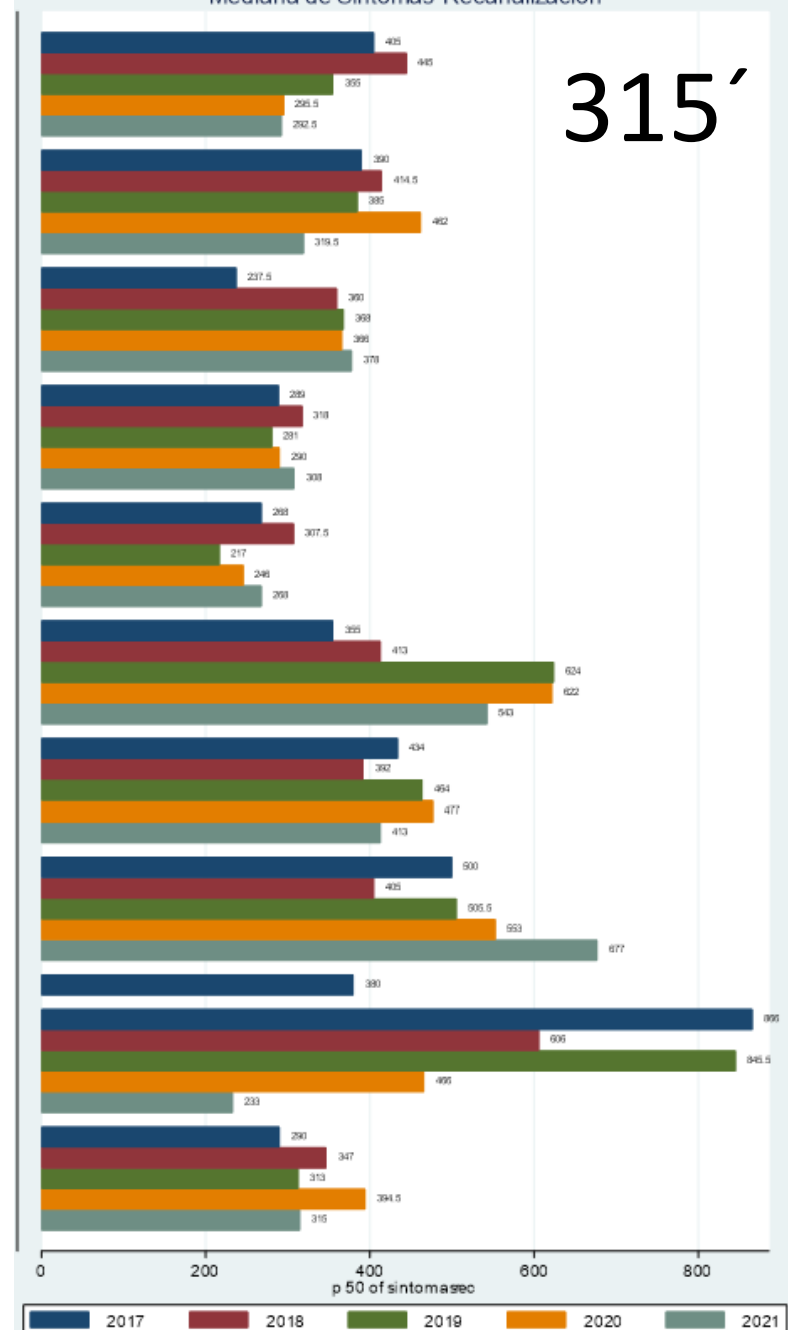
Mediana de Puerta - aguja

55'



Mediana de Síntomas-Recanalización

315'



> Stroke. 2023 Feb;54(2):415-425. doi: 10.1161/STROKEAHA.122.039821. Epub 2023 Jan 23.

Golden Hour Treatment With tPA (Tissue-Type Plasminogen Activator) in the BEST-MSU Study

Jason Mackey¹, Jose-Miguel Yamal², Stephanie A Parker³, Kelly Silnes^{1 4}, Suja S Rajan², Asha P Jacob³, Mengxi Wang², Noopur Singh², William J Jones⁵, Ilana Spokoyny⁶, Babak B Navi⁷, Jeffrey L Saver⁸, James C Grotta⁹; BEST-MSU Study Group

Affiliations + expand

PMID: 36689579 DOI: 10.1161/STROKEAHA.122.039821

FHT was associated with higher adjusted odds ratio for 90-day modified Rankin Scale score of 0 to 1 (odds ratio, 1.87 [95% CI, 1.25-2.84]; P=0.003). Among FHT patients, 68% achieved a 90-day modified Rankin Scale of 0 or 1 or returned to their baseline status. FHT was not associated with higher risk of hemorrhage and was associated with reduced risk of treating neurovascular mimics.



Clinical Trial > Lancet Neurol. 2022 Jun;21(6):520-527. doi: 10.1016/S1474-4422(22)00171-5. Epub 2022 May 4.

Comparison of tenecteplase with alteplase for the early treatment of ischaemic stroke in the Melbourne Mobile Stroke Unit (TASTE-A): a phase 2, randomised, open-label trial

FULL TEXT LINKS

THE LANCET Neurology
FULL-TEXT ARTICLE

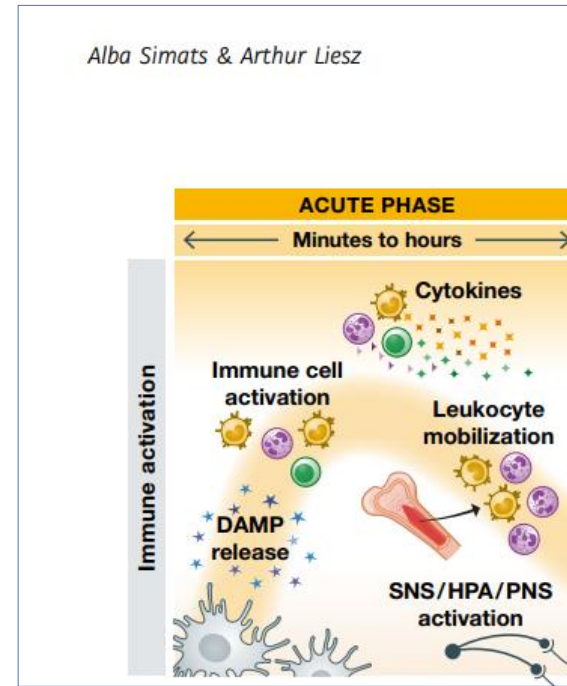
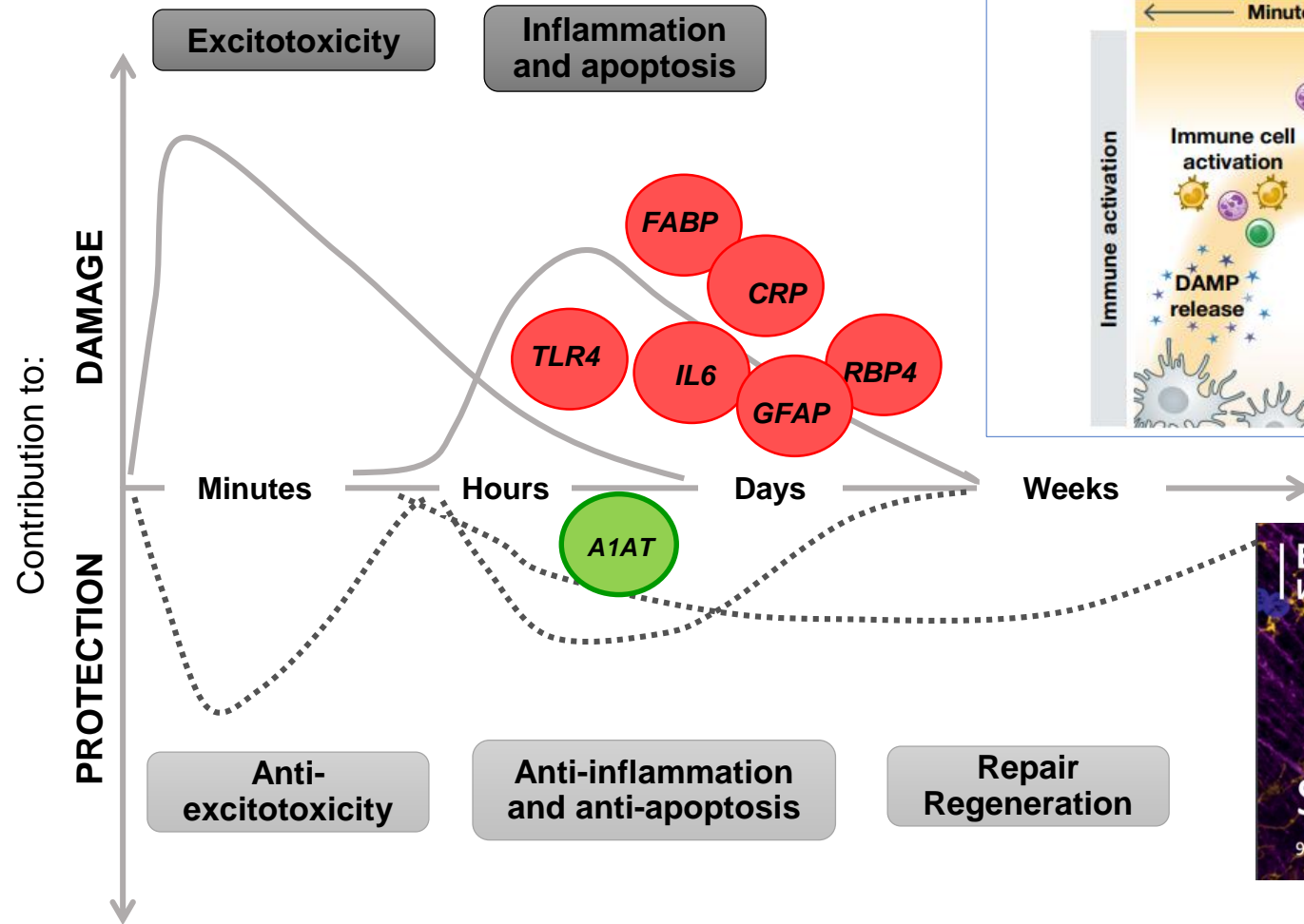
ACTIONS

“ Cite

📖 Collections



Summary of biological processes

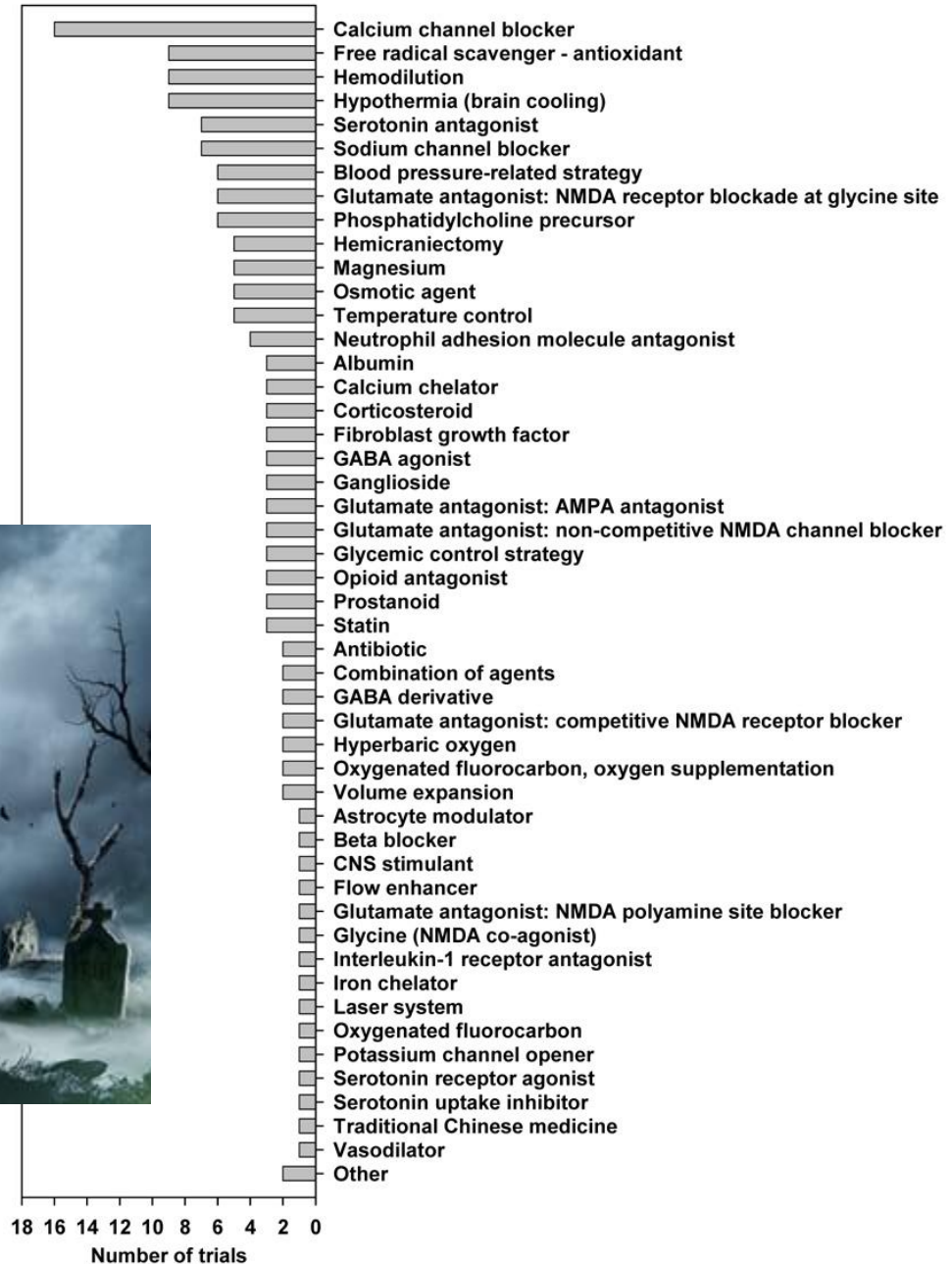


Dirnagl U. Ann N Y Acad Sci 2012;1268:21-25

“Zombi drugs” 4 stroke

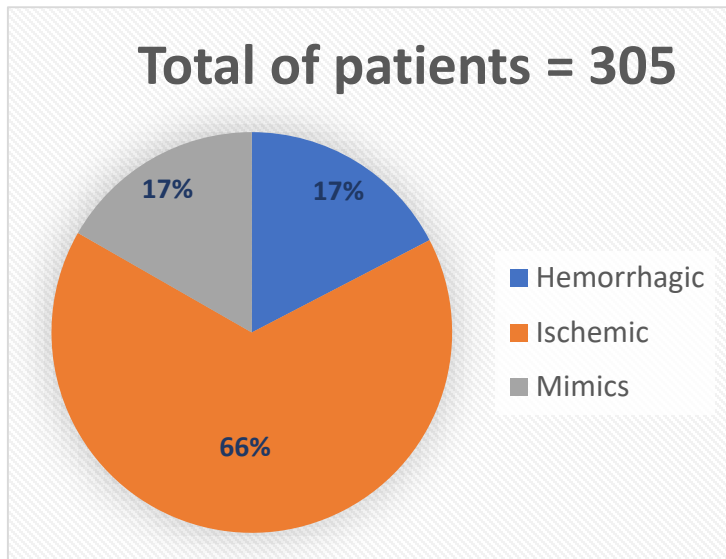


Clinical Trials of Neuroprotectants in Acute Ischemic Stroke



Do you want to treat all stroke suspicions or only ischemic strokes?

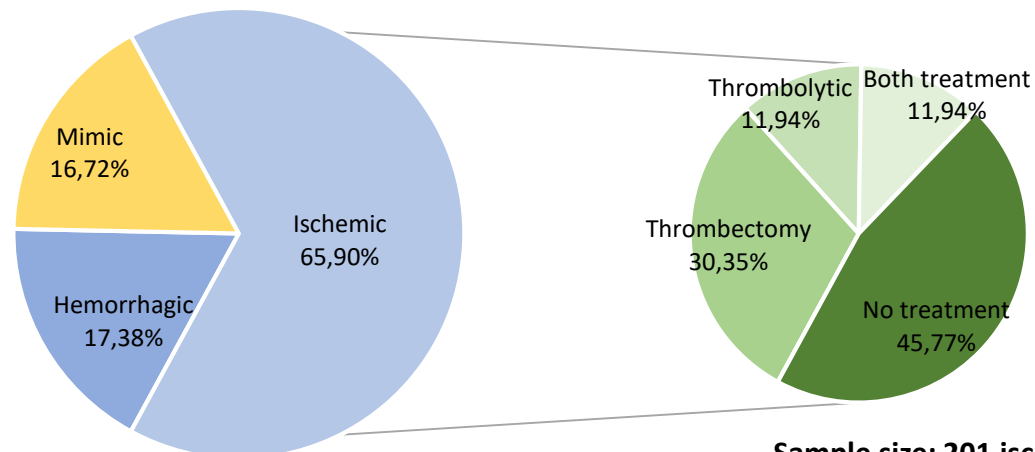
BIOFAST: clinical data results



AMBULANCES	Total = 175
Ischemic	112
Hemorrhagic	33
Mimics	30
ER hospital	Total = 130
Ischemic	89
Hemorrhagic	20
Mimics	21

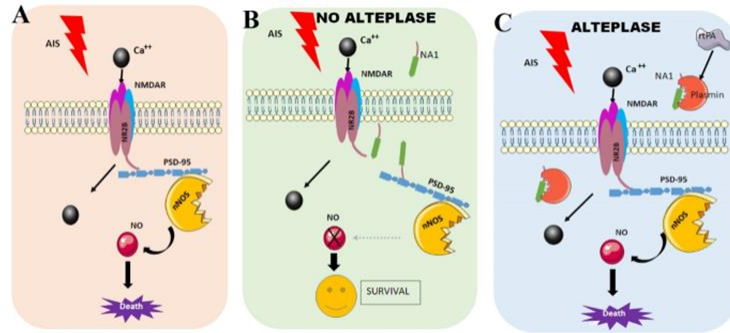
Total LVO patients	THROMBECTOMY	NO THROMBECTOMY
n=100	n=78	n=22

- 33% of the BIOFAST patients were LVOs
- 50% of the ischemic patients were LVOs



Sample size: 201 ischemic strokes

ESCAPE-NA1 Trial Brings Hope of Neuroprotective Drugs for Acute Ischemic Stroke: Highlights of the Phase 3 Clinical Trial on Nerinetide



Brief Summary:

The purpose of this study is to determine whether nerinetide (NA-1) is effective in reducing global disability in patients with acute cerebral ischemia if administered early after symptom onset.

Condition or disease	Intervention/treatment	Phase
Acute Cerebral Ischemia	Drug: Nerinetide (NA-1) Drug: Placebo	Phase 3

Detailed Description:

Nerinetide (NA-1) is being developed as an emergency drug aimed at reducing global disability in patients with acute cerebral ischemia if administered early after symptom onset.

The primary objective is to determine the efficacy of nerinetide in reducing global disability in patients with acute stroke. The secondary objectives are to determine the efficacy of nerinetide in reducing functional dependence, reducing mortality rate, reducing worsening of stroke, improving neurological outcome and improving activities of daily living.

The leading safety objectives are to determine the effect of administering a target dose of 2.60 mg/kg (up to a maximum dose of 270 mg) IV infusion of nerinetide within three hours of symptom onset by paramedics in the field on serious adverse events and 90-day mortality.

This trial is a multicenter, randomized, double-blind, placebo-controlled, single dose study initiated prehospital in the ambulance. It is being conducted using Emergency Medical Services (EMS) in Canada. Subjects with suspected acute stroke will be identified in the field by trained paramedics using the approved stroke protocol in use by the local EMS system, and further screened for eligibility and approval by an on-call trial physician. The paramedics will administer the study drug. Upon arrival at the emergency department, subjects will receive standard-of-care.

An Independent Data Monitoring Committee will perform safety reviews of the clinical data.

Study Design

Go to

Study Type	Interventional (Clinical Trial)
Actual Enrollment	532 participants
Allocation	Randomized
Intervention Model	Parallel Assignment
Masking	Quadruple (Participant, Care Provider, Investigator, Outcomes Assessor)
Primary Purpose	Treatment
Official Title	A Multicenter, Randomized, Double-Blind, Placebo-Controlled Study to Determine the Efficacy and Safety of Intravenous NA-1 Initiated by Paramedics in the Field for Acute Cerebral Ischemia Within Three Hours of Symptom Onset
Actual Study Start Date	March 26, 2015
Estimated Primary Completion Date	December 2023
Estimated Study Completion Date	December 2023

Paramedics in Vancouver and Richmond, B.C., have joined colleagues in two Ontario locations to take part in a drug trial that could greatly improve outcomes for stroke patients.

Emergency Health Services said the B.C. paramedics, along with those in Toronto and the Region of Peel, will administer a clinical study drug called NA-1, a substance that [limits brain damage](#) if a stroke occurs.

Eligible stroke patients will [either receive NA-1 or a placebo](#).

EHS said results of the trial could help researchers assess the effect of speedy treatment by paramedics, before patients even reach hospital.

Almost two million brain cells die each minute after a stroke, making quick assessment and treatment crucial.

Stroke Services B.C. spokeswoman Pam Ramsay said that if NA-1 reduces the devastating impact of strokes while a patient is on the way to hospital, the results could have tremendous impacts on recovery and rehabilitation.

While consent is required before participants are given a product in most studies, that would not be the case for stroke patients in the randomized trial of 558 patients.

Dr. William Dick, vice-president of medical programs for B.C. Emergency Health Services, said paramedics are at the forefront of groundbreaking medical research for the trial.



Paramedics are at the forefront of a randomized trial testing a substance that limits brain damage if a stroke occurs. (Jonathan Hayward/Canadian Press)

FRONTIERS

<https://clinicaltrials.gov/ct2/show/NCT02315443>

REMOTE CAT

ClinicalTrials.gov ID: NCT03375762

CLINICAL NEUROSCIENCES RESEARCH GROUP

Generalitat de Catalunya
Departament de Salut

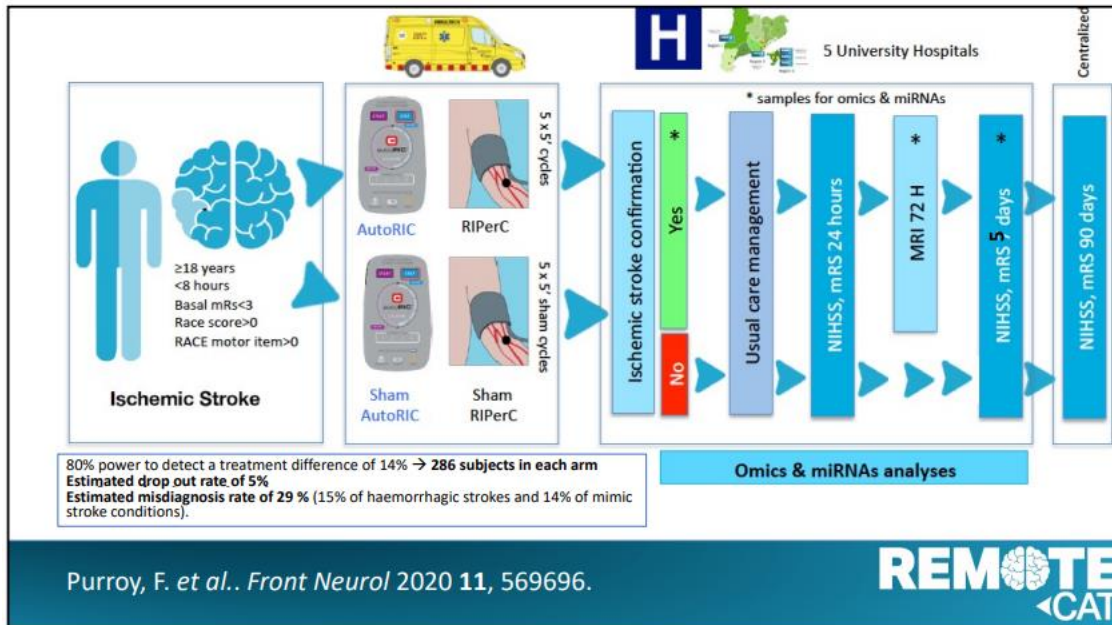
Institut Català de la Salut
Hospital Universitari
Arnau de Vilanova

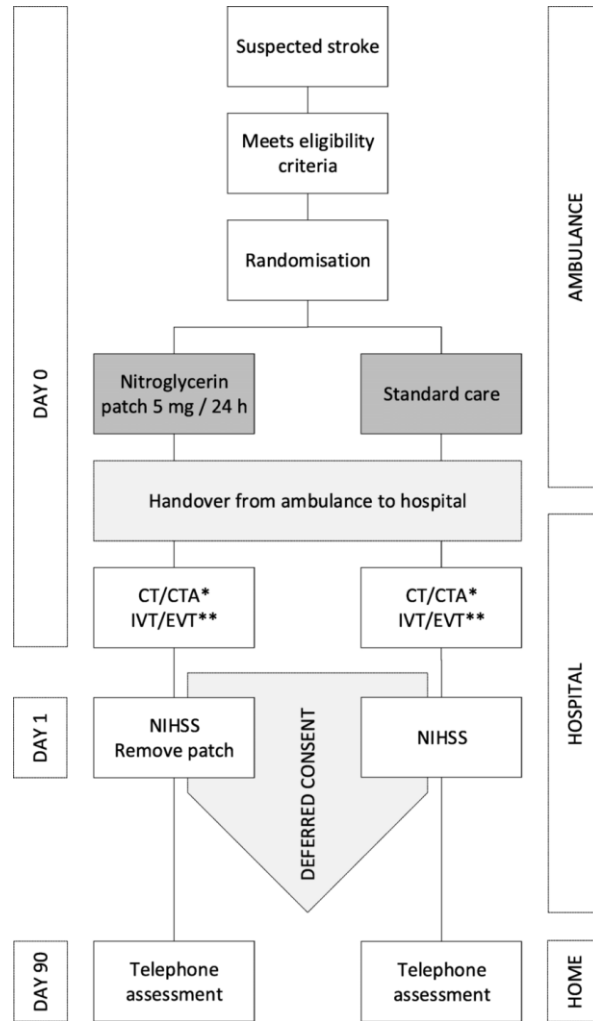
IRB
Biodata

Universitat
de Lleida

innobics
innovacióoberta

Instituto
de Salud
Carlos III





Clinical Trial > Lancet Neurol. 2022 Nov;21(11):971-981. doi: 10.1016/S1474-4422(22)00333-7.
Epub 2022 Sep 1.

Prehospital transdermal glyceryl trinitrate in patients with presumed acute stroke (MR ASAP): an ambulance-based, multicentre, randomised, open-label, blinded endpoint, phase 3 trial

Sophie A van den Berg ¹, Simone M Uniken Venema ², Hendrik Reinink ², Jeannette Hofmeijer ³, Wouter J Schonewille ⁴, Irene Miedema ⁵, Puck S S Fransen ⁶, D Martijn O Pruissen ⁷, Theodora W M Raaijmakers ⁸, Gert W van Dijk ⁹, Frank-Erik de Leeuw ¹⁰, Jorine A van Vliet ¹¹, Vincent I H Kwa ¹², Henk Kerkhoff ¹³, Alex van 't Net ¹⁴, Rene Boomars ¹⁵, Arjen Siegers ¹⁶, Tycho Lok ¹⁷, Klaartje Caminada ¹⁸, Laura M Esteve Cuevas ¹⁹, Marieke C Visser ²⁰, Casper P Zwetsloot ²¹, Joeske M F Boomsma ²², Mirjam H Schipper ²³, Roeland P J van Eijkelenburg ²⁴, Olvert A Berkhemer ²⁵, Daan Nieboer ²⁶, Hester F Lingsma ²⁶, Bart J Emmer ²⁷, Robert J van Oostenbrugge ²⁸, Aad van der Lugt ²⁹, Yvo B W E M Roos ³⁰, Charles B L M Majoie ²⁷, Diederik W J Dippel ³¹, Paul J Nederkoorn ³⁰, H Bart van der Worp ²; MR ASAP Investigators

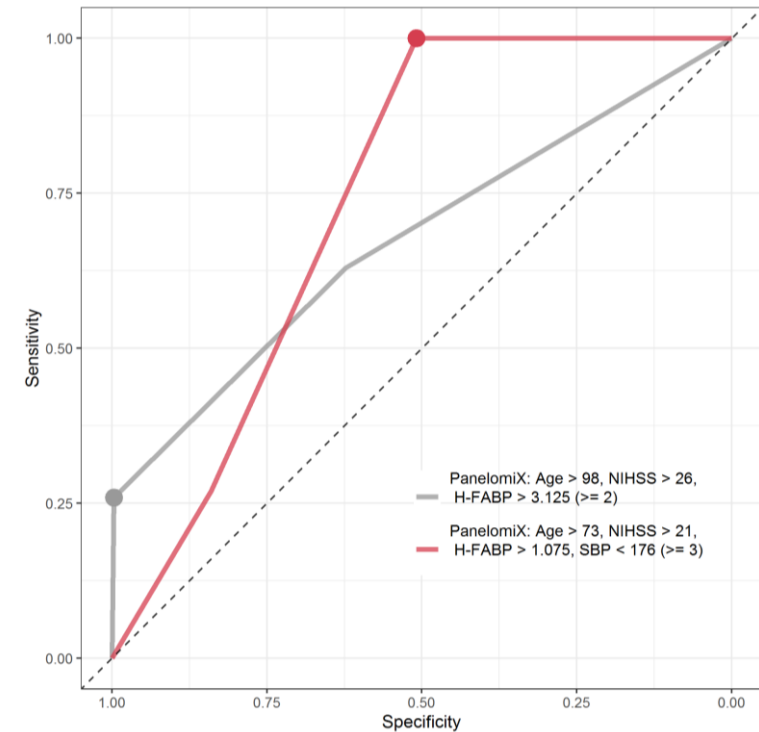
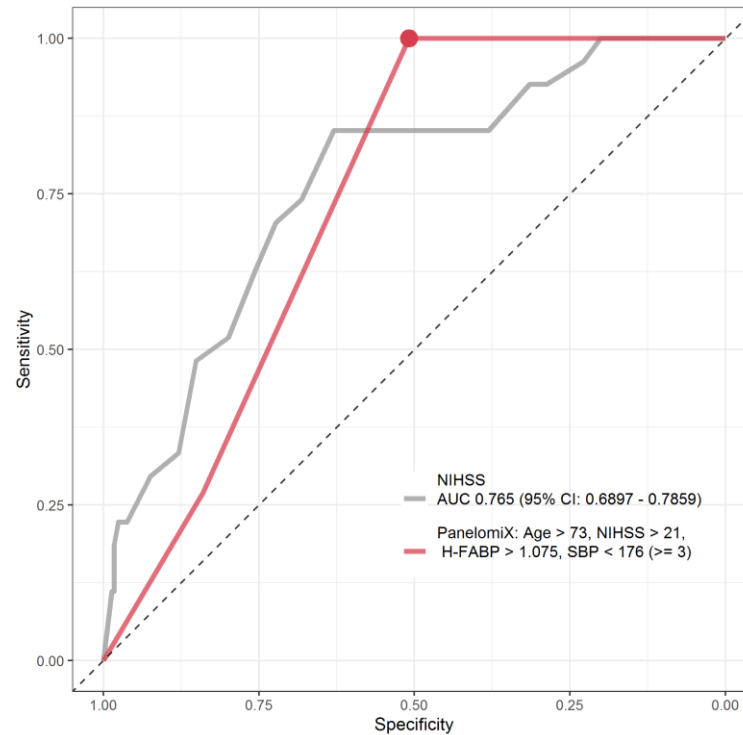
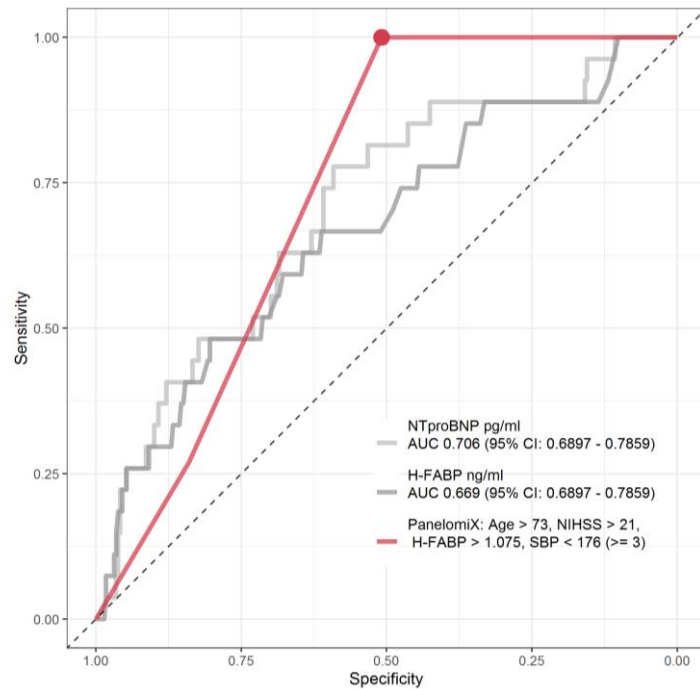
Collaborators, Affiliations + expand

PMID: 36058230 DOI: 10.1016/S1474-4422(22)00333-7

LVOCheck & mortality at discharge



Using Panelomix software (in LVOs n=320) we identified optimal cutoffs for age, NIHSS score and FABP to predict mortality with excellent specificity (specificity=99.70% and sensitivity=25.90%). We also identified cutoffs for age, NIHSS score, systolic blood pressure and FABP to predict mortality with excellent sensitivity (specificity=50.90% and sensitivity=100%).



Year 1

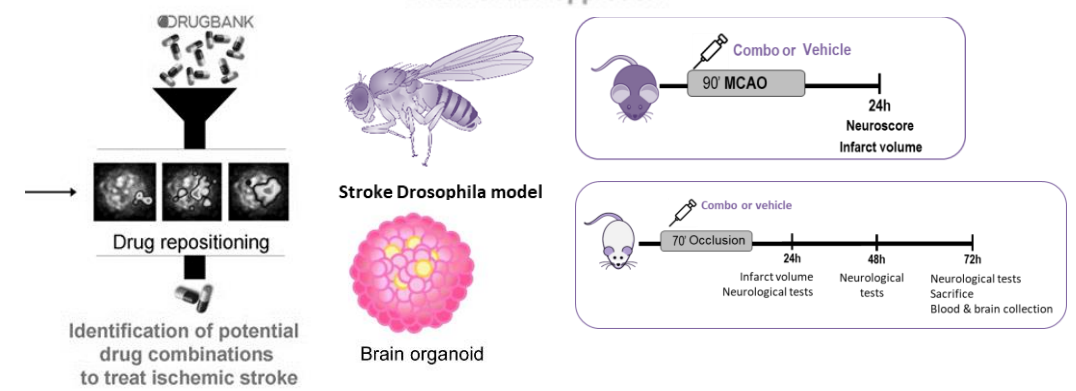
Year 2

Year 3

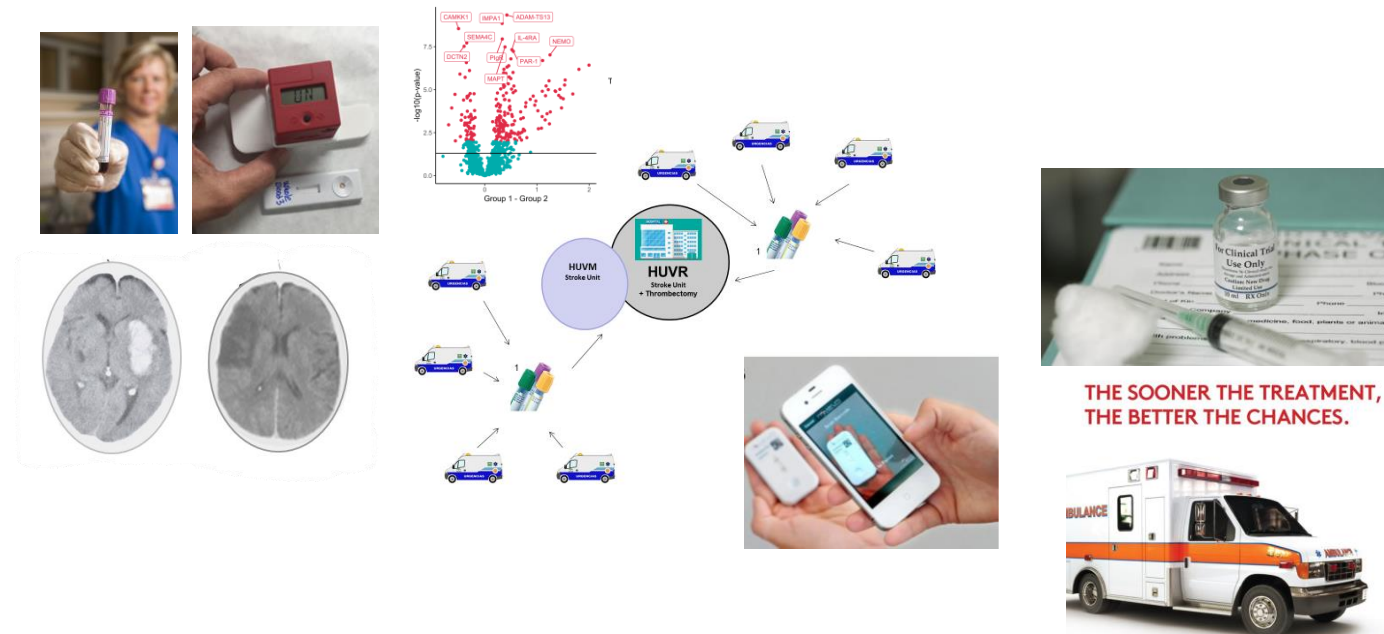
Neuroprotection (N)



Biomarkers (B)



Convergence B+N





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