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Date of birth: October 4th 1982

Nationality: Costarican

Gender: male

Languages

Spanish: mother tongue

English: Advanced level C2 (Costarican British Institute)

German: Intermediate level B2 (Goethe Institut)

Education

Universität Krems an der Donau, Austria. European Master in Stroke Medicine (Master of Science).
2014-2017

Universidad Autonoma de México, National Institute of Neurology and Neurosurgery. Stroke
Neurology Fellowship. 2014-2015

Universidad de Costa Rica, Neurologist. 2011-2013.

Universidad de Costa Rica, Internal Medicine. 2008-2011

Universidad de Costa Rica, Medical Doctor (Primary Phisycian).2000-2006.

Organization membership

Asociación Costarricense de Ciencias Neurológicas (ACCN)

International Brain Research Organization (IBRO).

World Stroke Organization (WSO) / (Fellow member)

American Heart Association/American Stroke Association (AHA/ASA)

European Stroke Organization (ESO) / Fellow member

Asociación Mexicana de Enfermedad Vascular Cerebral (AMEVASC)

International Stroke Genetics Consortium (ISGC)

Neurocritical Care Society (NCS)

European Society of Neurosonology and Hemodynamics (ESNH)

Iberoamerican Stroke Society (SIEVC)

Work experience

December 2015-2019. Harvard University, Teaching Assistant-II in Costa Rica. PPCR-2016

November 2014-2017. Harvard University, Site Director in Costa Rica. PPCR-2015

February 2013-Current. Hospital R.A. Calderón Guardia, CCSS. Neurosciences Department

February 2013-Current. Hospital La Católica (private practice). Neurology Department

March 2009-Current. Universidad de Costa Rica, School of Medicine. Assistant Professor

April-May 2012. Texas Tech Health Sciences Center, Paul L. Foster Medical School, El Paso Texas. Center of Excellence in Neuroscience. Research Fellow.

2009- 2013. Hospital San Juan de Dios, Universidad de Costa Rica. Neurology Fellowship.

2008-2010. Universidad Hispanoamericana. School of Medicine. Associate Professor.

2007-2008. Hospital R.A. Calderón Guardia, Neurosurgery Department. General practitioner.

2007-2008. Banco Popular y de Desarrollo Comunal. Occupational Health Medicine.

2006-2007. C.C.S.S., Health Sector of Puerto Viejo. Social Service General Practitioner.

2005. C.C.S.S./Universidad de Costa Rica. Internship

Additional Training

2021. Future Stroke Leaders Program. World Stroke Organization.

2020. Applied Biostatistics. Harvard University, School of Public Health.

2016. Neurocritical Life Support Certified Trainer. Neurocritical Care Society.

2014. Principles and Practice in Clinical Research. Harvard University, School of Medicine.

2014. Manuscript Writing Workshop. Mexican Health Institute

2014. Advanced Cardiac Support. National Institute of Neurology and Neurosurgery

2009. Transcranial Doppler Course. University of California (UCLA), Los Angeles, Ca.

2008. Mechanical ventilation support. CMC, San José, CR

2007. Basics in Clinical Research. FUCODOCSA, San José, CR

Publications

1.

[Editorial: Stroke Care Networks in Disadvantaged Groups.](#)

Delcourt C, Arauz A, **Barboza MA.**

Front Neurol. 2022 May 31;13:941095. doi: 10.3389/fneur.2022.941095. eCollection 2022.

PMID: 35711256 **Free PMC article.** No abstract available.

2.

[Multi-ancestry GWAS reveals excitotoxicity associated with outcome after ischaemic stroke.](#)

Ibanez L, Heitsch L, Carrera C, Farias FHG, Del Aguila JL, Dhar R, Budde J, Bergmann K, Bradley J, Harari O, Phuah CL, Lemmens R, Viana Oliveira Souza AA, Moniche F, Cabezas-Juan A, Arenillas JF, Krupinski J, Cullrell N, Torres-Aguila N, Muñoz E, Cárcel-Márquez J, Marti-Fabregas J, Delgado-Mederos R, Marin-Bueno R, Hornick A, Vives-Bauza C, Navarro RD, Tur S, Jimenez C, Obach V, Segura T, Serrano-Heras G, Chung JW, Roquer J, Soriano-Tarraga C, Giralte-Steinhauer E, Mola-Caminal M, Pera J, Lapicka-Bodzioch K, Derbisz J, Davalos A, Lopez-Cancio E, Muñoz L, Tatlisumak T, Molina C, Ribo M, Bustamante A, Sobrino T, Castillo-Sanchez J, Campos F, Rodriguez-Castro E, Arias-Rivas S, Rodríguez-Yáñez M, Herbosa C, Ford AL, Gutierrez-

Romero A, Uribe-Pacheco R, Arauz A, Lopes-Cendes I, Lowenkopf T, **Barboza MA**, Amini H, Stamova B, Ander BP, Sharp FR, Kim GM, Bang OY, Jimenez-Conde J, Slowik A, Stribian D, Tsai EA, Burkly LC, Montaner J, Fernandez-Cadenas I, Lee JM, Cruchaga C.

Brain. 2022 Feb 25;awac080. doi: 10.1093/brain/awac080. Online ahead of print.

PMID: 35213696

3.

[Global Differences in Risk Factors, Etiology, and Outcome of Ischemic Stroke in Young Adults-A Worldwide Meta-analysis: The GOAL Initiative.](#)

Jacob MA, Ekker MS, Allach Y, Cai M, Aarnio K, Arauz A, Arnold M, Bae HJ, Bandeo L, **Barboza MA**, Bolognese M, Bonardo P, Brouns R, Chuluun B, Chuluunbatar E, Cordonnier C, Dagvajantsan B, Debette S, Don A, Enzinger C, Ekizoglu E, Fandler-Höfler S, Fazekas F, Fromm A, Gattringer T, Hora TF, Jern C, Jood K, Kim YS, Kittner S, Kleinig T, Klijn CJM, Körv J, Kumar V, Lee KJ, Lee TH, Maaijwee NAM, Martinez-Majander N, Marto JP, Mehndiratta MM, Mifsud V, Montanaro V, Pacio G, Patel VB, Phillips MC, Piechowski-Jozwiak B, Pikula A, Ruiz-Sandoval J, von Sarnowski B, Swartz RH, Tan KS, Tanne D, Tatlisumak T, Thijs V, Viana-Baptista M, Vibo R, Wu TY, Yesilot N, Waje-Andreassen U, Pezzini A, Putaala J, Tuladhar AM, de Leeuw FE.

Neurology. 2022 Feb 8;98(6):e573-e588. doi: 10.1212/WNL.0000000000013195. Epub 2021 Dec 14.

PMID: 34906974

4.

[Characteristics and Outcomes of Patients With Cerebral Venous Sinus Thrombosis in SARS-CoV-2 Vaccine-Induced Immune Thrombotic Thrombocytopenia.](#)

Sánchez van Kammen M, Aguiar de Sousa D, Poli S, Cordonnier C, Heldner MR, van de Munckhof A, Krzywicka K, van Haaps T, Ciccone A, Middeldorp S, Levi MM, Kremer Hovinga JA, Silvis S, Hiltunen S, Mansour M, Arauz A, **Barboza MA**, Field TS, Tsigoulis G, Nagel S, Lindgren E, Tatlisumak T, Jood K, Putaala J, Ferro JM, Arnold M, Coutinho JM; Cerebral Venous Sinus Thrombosis With Thrombocytopenia Syndrome Study Group.

JAMA Neurol. 2021 Nov 1;78(11):1314-1323. doi: 10.1001/jamaneurol.2021.3619.

PMID: 34581763

5.

[Global, regional, and national mortality among young people aged 10-24 years, 1950-2019: a systematic analysis for the Global Burden of Disease Study 2019.](#)

GBD 2019 Adolescent Mortality Collaborators.

Lancet. 2021 Oct 30;398(10311):1593-1618. doi: 10.1016/S0140-6736(21)01546-4. Epub 2021 Oct 28.

PMID: 34755628 **Free PMC article.**

6.

[Fighting Against Stroke in Latin America: A Joint Effort of Medical Professional Societies and Governments.](#)

Martins SCO, Lavados P, Secchi TL, Brainin M, Ameriso S, Gongora-Rivera F, Sacks C, Cantú-Brito C, Alvarez Guzman TF, Pérez-Romero GE, Muñoz Collazos M, **Barboza MA**, Arauz A, Abanto Argomedo C, Navarro-Escudero N, Amorin Costabile HI, Crosa R, Camejo C, Mernes R, Maldonado N, Mora Cuervo DL, Pontes Neto OM, Silva GS, Carbonera LA, de Souza AC, de Sousa EDG, Flores A, Melgarejo D, Santos Carquin IR, Hoppe A, de Carvalho JF, Mont'Alverne F, Amaya P, Bayona H, Navia González VH, Duran JC, Urrutia VC, Araujo DV, Feigin VL, Nogueira RG.

Front Neurol. 2021 Oct 1;12:743732. doi: 10.3389/fneur.2021.743732. eCollection 2021.

PMID: 34659101 **Free PMC article.**

7.

[Anemia prevalence in women of reproductive age in low- and middle-income countries between 2000 and 2018.](#)

Kinyoki D, Osgood-Zimmerman AE, Bhattacharjee NV; Local Burden of Disease Anaemia Collaborators, Kassebaum NJ, Hay SI.

Nat Med. 2021 Oct;27(10):1761-1782. doi: 10.1038/s41591-021-01498-0. Epub 2021 Oct 12.

PMID: 34642490 **Free PMC article.**

8.

[Global, regional, and national burden of stroke and its risk factors, 1990-2019: a systematic analysis for the Global Burden of Disease Study 2019.](#)

GBD 2019 Stroke Collaborators.

Lancet Neurol. 2021 Oct;20(10):795-820. doi: 10.1016/S1474-4422(21)00252-0. Epub 2021 Sep 3.

PMID: 34487721 **Free PMC article.**

9.

[COVID-19 Lockdown Effects on Acute Stroke Care in Latin America.](#)

Pujol-Lereis VA, Flores A, **Barboza MA**, Abanto-Argomedeo C, Amaya P, Bayona H, Bonardo P, Diaz-Escobar L, Gomez-Schneider M, Góngora-Rivera F, Lavados PM, Leon C, Luraschi A, Marquez-Romero JM, Ouriques-Martins SC, Navia VH, Ruiz-Franco A, Vences MÁ, Zurrú MC, Arauz A, Ameriso SF; Latin American Stroke rEgistry (LASE) COVID-19 Collaborators..

J Stroke Cerebrovasc Dis. 2021 Sep;30(9):105985. doi: 10.1016/j.jstrokecerebrovasdis.2021.105985. Epub 2021 Jul 3.

PMID: 34284323 **Free PMC article.**

10.

[Use of multidimensional item response theory methods for dementia prevalence prediction: an example using the Health and Retirement Survey and the Aging, Demographics, and Memory Study.](#)

GBD 2019 Dementia Collaborators.

BMC Med Inform Decis Mak. 2021 Aug 11;21(1):241. doi: 10.1186/s12911-021-01590-y.

PMID: 34380485 **Free PMC article.**

11.

[Prognostic Factors for Long-Term Recovery of Homonymous Visual Field Defects After Posterior Circulation Ischemic Stroke.](#)

Jorge CB, Vanessa CN, **Barboza MA**, Irene GO, Antonio A.

J Stroke Cerebrovasc Dis. 2021 Aug;30(8):105924. doi: 10.1016/j.jstrokecerebrovasdis.2021.105924. Epub 2021 Jun 17.

PMID: 34148022

12.

[Global mortality from dementia: Application of a new method and results from the Global Burden of Disease Study 2019.](#)

GBD 2019 Collaborators.

Alzheimers Dement (N Y). 2021 Jul 27;7(1):e12200. doi: 10.1002/trc2.12200. eCollection 2021.

PMID: 34337138 **Free PMC article.**

13.

[Frequency of Thrombocytopenia and Platelet Factor 4/Heparin Antibodies in Patients With Cerebral Venous Sinus Thrombosis Prior to the COVID-19 Pandemic.](#)

Sánchez van Kammen M, Heldner MR, Brodard J, Scutelnic A, Silvis S, Schroeder V, Kremer Hovinga JA, Middeldorp S, Levi M, Hiltunen S, Lindgren E, Mansour M, Arauz A, **Barboza MA**, Zuurbier SM, Aguiar de Sousa D, Ferro JM, Fischer U, Field TS, Jood K, Tatlisumak T, Putaala J, Arnold M, Coutinho JM.

JAMA. 2021 Jul 27;326(4):332-338. doi: 10.1001/jama.2021.9889.

PMID: 34213527 **Free PMC article.**

14.

[Global Impact of COVID-19 on Stroke Care and IV Thrombolysis.](#)

Nogueira RG, Qureshi MM, Abdalkader M, Martins SO, Yamagami H, Qiu Z, Mansour OY, Sathya A, Czlonkowska A, Tsivgoulis G, Aguiar de Sousa D, Demeestere J, Mikulik R, Vanacker P, Siegler JE, Kőrv J, Biller J, Liang CW, Sangha NS, Zha AM, Czap AL, Holmstedt CA, Turan TN, Ntaios G, Malhotra K, Tayal A, Loochtan A, Ranta A, Mistry EA, Alexandrov AW, Huang DY, Yaghi S, Raz E, Sheth SA, Mohammaden MH, Frankel M, Bila Lamou EG, Aref HM, Elbassiouny A, Hassan F, Menecie T, Mustafa W, Shokri HM, Roushdy T, Sarfo FS, Alabi TO, Arabambi B, Nwazor EO, Sunmonu TA, Wahab K, Yaria J, Mohammed HH, Adebayo PB, Riahi AD, Sassi SB, Gwaunza L, Ngwende GW, Sahakyan D, Rahman A, Ai Z, Bai F, Duan Z, Hao Y, Huang W, Li G, Li W, Liu G, Luo J, Shang X, Sui Y, Tian L, Wen H, Wu B, Yan Y, Yuan Z, Zhang H, Zhang J, Zhao W, Zi W, Leung TW, Chugh C, Huded V, Menon B, Pandian JD, Sylaja PN, Usman FS, Farhoudi M, Hokmabadi ES, Horev A, Reznik A, Sivan Hoffmann R, Ohara N, Sakai N, Watanabe D, Yamamoto R, Doijiri R, Tokuda N, Yamada T, Terasaki T, Yazawa Y, Uwatoko T, Dembo T, Shimizu H, Sugiura Y, Miyashita F, Fukuda H, Miyake K, Shimbo J, Sugimura Y, Yagita Y, Takenobu Y, Matsumaru Y, Yamada S, Kono R, Kanamaru T, Yamazaki H, Sakaguchi M, Todo K, Yamamoto N, Sonoda K, Yoshida T, Hashimoto H, Nakahara I, Kondybayeva A, Faizullina K, Kamenova S, Zhanuzakov M, Baek JH, Hwang Y, Lee JS, Lee SB, Moon J, Park H, Seo JH, Seo KD, Sohn SI, Young CJ, Ahdab R, Wan Zaidi WA, Aziz ZA, Basri HB, Chung LW, Ibrahim AB, Ibrahim KA, Looi I, Tan WY, Yahya NW, Groppa S, Leahu P, Al Hashmi AM, Imam YZ, Akhtar N, Pineda-Franks MC, Co CO, Kandyba D, Alhazzani A, Al-Jehani H, Tham CH, Mamaug MJ, Venketasubramanian N, Chen CH, Tang SC, Churojana A, Akil E, Aykaç Ö, Ozdemir AO, Giray S, Hussain SI, John S, Le Vu H, Tran AD, Nguyen HH, Nhu Pham T, Nguyen TH, Nguyen TQ, Gattringer T, Enzinger C, Killer-Oberpfalzer M, Bellante F, De Blauwe S, Vanhooren G, De Raedt S, Dusart A, Lemmens R, Ligot N, Pierre Rutgers M, Yperzeele L, Alexiev F, Sakelarova T, Bedeković MR, Budincevic H, Cindric I, Hucika Z, Ozretic D, Saric MS, Pfeifer F, Karpowicz I, Cernik D, Sramek M, Skoda M, Hlavacova H, Klecka L, Koutny M, Vaclavik D, Skoda O, Fiksa J, Hanelova K, Nevsimalova M, Rezek R, Prochazka P, Krejstova G, Neumann J, Vachova M, Brzezanski H, Hlinovsky D, Tenora D, Jura R, Jurák L, Novak J, Novak A, Topinka Z, Fibrich P, Sobolova H, Volny O, Krarup Christensen H, Drenck N, Klingenberg Iversen H, Simonsen CZ, Truelsen TC, Wienecke T, Vibo R, Gross-Paju K, Toomsoo T, Antsov K, Caparros F, Cordonnier C, Dan M, Fauchoux JM, Mechtouff L, Eker O, Lesaine E, Ondze B, Peres R, Pico F, Pletin M, Pop R, Rouanet F, Gubeladze T, Khinikadze M, Lobjanidze N, Tsiskaridze A, Nagel S, Ringleb PA, Rosenkranz M, Schmidt H, Sedghi A, Siepmann T, Szabo K, Thomalla G, Palaodimou L, Sagris D, Kargiotis O, Klivenyi P, Szapary L, Tarkanyi G, Adami A, Bandini F, Calabresi P, Frisullo G, Renieri L, Sangalli D, Pirson A, Uyttenboogaart M, van den Wijngaard I, Kristoffersen ES, Brola W, Fudala M, Horoch-Lyszczarek E, Karlinski M, Kazmierski R, Kram P, Rogoziewicz M, Kaczorowski R, Luchowski P, Sienkiewicz-Jarosz H, Sobolewski P, Fryze W, Wisniewska A, Wisniewska M, Ferreira P, Ferreira P, Fonseca L, Marto JP, Pinho E Melo T, Nunes AP, Rodrigues M, Tedim Cruz V, Falup-Pecurariu C, Krastev G, Mako M, de Leciñana MA, Arenillas JF, Ayo-Martin O, Cruz Culebras A, Tejedor ED, Montaner J, Pérez-Sánchez S, Tola Arribas MA, Rodriguez Vasquez A, Mayza M, Bernava G, Brehm A, Machi P, Fischer U, Gralla J, Michel PL, Psychogios MN, Strambo D, Banerjee S, Krishnan K, Kwan J, Butt A, Catanese L, Demchuk AM, Field T, Haynes J, Hill MD, Khosravani H, Mackey A, Pikula A, Saposnik G, Scott CA, Shoamanesh A, Shuaib A, Yip S, **Barboza MA**, et al; SVIN COVID-19 Global Stroke Registry; SVIN COVID-19 Global Stroke Registry.

Neurology. 2021 Jun 8;96(23):e2824-e2838. doi: 10.1212/WNL.0000000000011885. Epub 2021 Mar 25.

PMID: 33766997 **Free PMC article.**

15.

[Risk factors for ischemic antiphospholipid syndrome: A case-control study.](#)

Matus-Mayorga R, Barrera-Vargas A, Rull-Gabayet M, Aguirre-Aguilar E, Valdez-López M, Espinoza-Lira F, Ramos-Ventura C, Cano-Nigenda V, **Barboza MA**, Merayo-Chalico J, Arauz A.

Clin Neurol Neurosurg. 2021 Mar;202:106492. doi: 10.1016/j.clineuro.2021.106492. Epub 2021 Jan 15.
PMID: 33540176

16.

[The Burden of Dementia due to Down Syndrome, Parkinson's Disease, Stroke, and Traumatic Brain Injury: A Systematic Analysis for the Global Burden of Disease Study 2019.](#)

GBD 2019 Dementia Collaborators.

Neuroepidemiology. 2021;55(4):286-296. doi: 10.1159/000515393. Epub 2021 Jun 28.

PMID: 34182555 **Free PMC article.** Review.

17.

[Global Burden of Cardiovascular Diseases and Risk Factors, 1990-2019: Update From the GBD 2019 Study.](#)

Roth GA, Mensah GA, Johnson CO, Addolorato G, Ammirati E, Baddour LM, Barengo NC, Beaton AZ, Benjamin EJ, Benziger CP, Bonny A, Brauer M, Brodmann M, Cahill TJ, Carapetis J, Catapano AL, Chugh SS, Cooper LT, Coresh J, Criqui M, DeCleene N, Eagle KA, Emmons-Bell S, Feigin VL, Fernández-Solà J, Fowkes G, Gakidou E, Grundy SM, He FJ, Howard G, Hu F, Inker L, Karthikeyan G, Kassebaum N, Koroshetz W, Lavie C, Lloyd-Jones D, Lu HS, Mirijello A, Temesgen AM, Mokdad A, Moran AE, Muntner P, Narula J, Neal B, Ntsekhe M, Moraes de Oliveira G, Otto C, Owolabi M, Pratt M, Rajagopalan S, Reitsma M, Ribeiro ALP, Rigotti N, Rodgers A, Sable C, Shakil S, Sliwa-Hahnle K, Stark B, Sundström J, Timpel P, Tleyjeh IM, Valgimigli M, Vos T, Whelton PK, Yacoub M, Zuhlke L, Murray C, Fuster V; GBD-NHLBI-JACC Global Burden of Cardiovascular Diseases Writing Group.

J Am Coll Cardiol. 2020 Dec 22;76(25):2982-3021. doi: 10.1016/j.jacc.2020.11.010.

PMID: 33309175 **Free PMC article.** Review.

18.

[Multi-ancestry genetic study in 5,876 patients identifies an association between excitotoxic genes and early outcomes after acute ischemic stroke.](#)

Ibanez L, Heitsch L, Carrera C, Farias FHG, Dhar R, Budde J, Bergmann K, Bradley J, Harari O, Phuah CL, Lemmens R, Oliveira Souza AAV, Moniche F, Cabezas-Juan A, Arenillas JF, Krupinski J, Cullrell N, Torres-Aguila N, Muiño E, Cárcel-Márquez J, Marti-Fabregas J, Delgado-Mederos R, Marin-Bueno R, Hornick A, Vives-Bauza C, Navarro RD, Tur S, Jimenez C, Obach V, Segura T, Serrano-Heras G, Chung JW, Roquer J, Soriano-Tarraga C, Giralt-Steinhauer E, Mola-Caminal M, Pera J, Lapicka-Bodzioch K, Derbis J, Davalos A, Lopez-Cancio E, Muñoz L, Tatlisumak T, Molina C, Ribo M, Bustamante A, Sobrino T, Castillo-Sanchez J, Campos F, Rodriguez-Castro E, Arias-Rivas S, Rodríguez-Yáñez M, Herbosa C, Ford AL, Arauz A, Lopes-Cendes I, Lowenkopf T, **Barboza MA**, Amini H, Stamova B, Ander BP, Sharp FR, Kim GM, Bang OY, Jimenez-Conde J, Slowik A, Stribian D, Tsai EA, Burkly LC, Montaner J, Fernandez-Cadenas I, Lee JM, Cruchaga C.

medRxiv. 2020 Nov 3:2020.10.29.20222257. doi: 10.1101/2020.10.29.20222257. Preprint.

PMID: 33173895 **Free PMC article.**

19.

[Global burden of 369 diseases and injuries in 204 countries and territories, 1990-2019: a systematic analysis for the Global Burden of Disease Study 2019.](#)

GBD 2019 Diseases and Injuries Collaborators.

Lancet. 2020 Oct 17;396(10258):1204-1222. doi: 10.1016/S0140-6736(20)30925-9.

PMID: 33069326 **Free PMC article.**

20.

[Late seizures in cerebral venous thrombosis.](#)

Sánchez van Kammen M, Lindgren E, Silvis SM, Hiltunen S, Heldner MR, Serrano F, Zelano J, Zuurbier SM, Mansour M, Aguiar de Sousa D, Canhão P, Al-Asady S, Ekizoglu E, Redfors P, Yesilot N, Ghiasian M, **Barboza**

MA, Arnao V, Aridon P, Punter MNM, Ferro JM, Arauz A, Tatlisumak T, Arnold M, Putaala J, Jood K, Coutinho JM.

Neurology. 2020 Sep 22;95(12):e1716-e1723. doi: 10.1212/WNL.0000000000010576. Epub 2020 Aug 5. PMID: 32759195

21.

[Acute symptomatic seizures in cerebral venous thrombosis.](#)

Lindgren E, Silvis SM, Hiltunen S, Heldner MR, Serrano F, de Scisco M, Zelano J, Zuurbier SM, Sánchez van Kammen M, Mansour M, Aguiar de Sousa D, Penas S, Al-Asady S, Ekizoglu E, Redfors P, Ahmed A, Yesilot N, Ghiasian M, **Barboza MA**, Arnao V, Aridon P, Punter MNM, Ferro JM, Kleinig T, Arauz A, Tatlisumak T, Arnold M, Putaala J, Coutinho JM, Jood K.

Neurology. 2020 Sep 22;95(12):e1706-e1715. doi: 10.1212/WNL.0000000000010577. Epub 2020 Aug 5. PMID: 32759191

22.

[Mapping geographical inequalities in access to drinking water and sanitation facilities in low-income and middle-income countries, 2000-17.](#)

Local Burden of Disease WaSH Collaborators.

Lancet Glob Health. 2020 Sep;8(9):e1162-e1185. doi: 10.1016/S2214-109X(20)30278-3.

PMID: 32827479 **Free PMC article.**

23.

[Author Correction: Mapping local patterns of childhood overweight and wasting in low- and middle-income countries between 2000 and 2017.](#)

LBD Double Burden of Malnutrition Collaborators.

Nat Med. 2020 Aug;26(8):1308. doi: 10.1038/s41591-020-0972-7.

PMID: 32616917 **Free PMC article.**

24.

[Mapping local patterns of childhood overweight and wasting in low- and middle-income countries between 2000 and 2017.](#)

LBD Double Burden of Malnutrition Collaborators.

Nat Med. 2020 May;26(5):750-759. doi: 10.1038/s41591-020-0807-6. Epub 2020 Apr 20.

PMID: 32313249 **Free PMC article.**

25.

[Expression of Olig2, Nestin, NogoA and AQP4 have no impact on overall survival in IDH-wildtype glioblastoma.](#)

Behling F, Barrantes-Freer A, Behnes CL, Stockhammer F, Rohde V, Adel-Horowski A, Rodríguez-Villagra OA, **Barboza MA**, Brück W, Lehmann U, Stadelmann C, Hartmann C.

PLoS One. 2020 Mar 11;15(3):e0229274. doi: 10.1371/journal.pone.0229274. eCollection 2020.

PMID: 32160197 **Free PMC article.**

26.

[Sex Differences Among Participants in the Latin American Stroke Registry.](#)

Arauz A, Serrano F, Ameriso SF, Pujol-Lereis V, Flores A, Bayona H, Fernández H, Castillo A, Ecos R, Vazquez J, Amaya P, Ruiz A, López M, Zapata C, Roa L, Marquez-Romero JM, Morelos E, Ochoa MA, Leon C, Romero F, Ruiz-Sandoval JL, Reyes A, **Barboza MA**; Latin American Stroke Registry †.

J Am Heart Assoc. 2020 Feb 18;9(4):e013903. doi: 10.1161/JAHA.119.013903. Epub 2020 Feb 17.

PMID: 32063111 **Free PMC article.**

27.

[A tool to identify patients with embolic stroke of undetermined source at high recurrence risk.](#)

Ntaios G, Georgiopoulos G, Perlepe K, Sirimarco G, Strambo D, Eskandari A, Nannoni S, Vemmou A, Koroboki E, Manios E, Rodríguez-Campello A, Cuadrado-Godia E, Roquer J, Arnao V, Caso V, Paciaroni M, Diez-Tejedor E, Fuentes B, Rodríguez Pardo J, Sánchez-Velasco S, Arauz A, Ameriso SF, Pertierra L, Gómez-Schneider M, Hawkes MA, **Barboza MA**, Chavarria Cano B, Iglesias Mohedano AM, García Pastor A, Gil-Núñez A, Putaala J, Tatlisumak T, Karagkiozi E, Papavasileiou V, Makaritsis K, Bandini F, Vemmos K, Michel P.

Neurology. 2019 Dec 3;93(23):e2094-e2104. doi: 10.1212/WNL.0000000000008571. Epub 2019 Oct 29.

PMID: 31662492

28.

[Global Outcome Assessment Life-long after stroke in young adults initiative-the GOAL initiative: study protocol and rationale of a multicentre retrospective individual patient data meta-analysis.](#)

Ekker MS, Jacob MA, van Dongen MME, Aarnio K, Annamalai AK, Arauz A, Arnold M, **Barboza MA**, Bolognese M, Brouns R, Chuluun B, Chuluunbaatar E, Dagvajantsan B, Debette S, Don A, Enzinger C, Ekizoglu E, Fandler-Höfler S, Fazekas F, Fromm A, Gattringer T, Gulli G, Hoffmann M, Hora TF, Jern C, Jood K, Kamouchi M, Kim YS, Kitazono T, Kittner SJ, Kleinig TJ, Klijn CJM, Korv J, Lee TH, Leys D, Maaijwee NAM, Martinez-Majander N, Marto JP, Mehndiratta MM, Mifsud V, Montanaro VV, Owolabi MO, Patel VB, Phillips MC, Piechowski-Jozwiak B, Pikula A, Ruiz-Sandoval JL, Sarnowski B, Schreuder FHBM, Swartz RH, Tan KS, Tanne D, Tatlisumak T, Thijs V, Tuladhar AM, Viana-Baptista M, Vibo R, Wu TY, Yesilot N, Waje-Andreassen U, Pezzini A, Putaala J, de Leeuw FE.

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PMID: 31727655 **Free PMC article.**

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Ouriques Martins SC, Sacks C, Hacke W, Brainin M, de Assis Figueiredo F, Marques Pontes-Neto O, Lavados Germain PM, Marinho MF, Hoppe Wiegering A, Vaca McGhie D, Cruz-Flores S, Ameriso SF, Camargo Villareal WM, Durán JC, Fogolin Passos JE, Gomes Nogueira R, Freitas de Carvalho JJ, Sampaio Silva G, Cabral Moro CH, Oliveira-Filho J, Gagliardi R, Gomes de Sousa ED, Fagundes Soares F, de Pinho Campos K, Piza Teixeira PF, Gonçalves IP, Santos Carquin IR, Muñoz Collazos M, Pérez Romero GE, Maldonado Figueredo JI, **Barboza MA**, Celis López MÁ, Góngora-Rivera F, Cantú-Brito C, Novarro-Escudero N, Velázquez Blanco MÁ, Arbo Oze de Morvil CA, Olmedo Bareiro AB, Meza Rojas G, Flores A, Hancoco-Saavedra JA, Pérez Jimenez V, Abanto Argomedo C, Rodriguez Kadota L, Crosa R, Mora Cuervo DL, de Souza AC, Carbonera LA, Álvarez Guzmán TF, Maldonado N, Cabral NL, Anderson C, Lindsay P, Hennis A, Feigin VL.

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PMID: 30871944 **Free PMC article.**

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PMID: 30773428 **Free PMC article.**

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34.

[Renal Function and Risk Stratification of Patients With Embolic Stroke of Undetermined Source.](#)

Ntaios G, Lip GYH, Lambrou D, Michel P, Perlepe K, Eskandari A, Nannoni S, Sirimarco G, Strambo D, Vemmos K, Koroboki E, Manios E, Vemmou A, Rodríguez-Campello A, Cuadrado-Godia E, Roquer J, Arnao V, Caso V, Paciaroni M, Diez-Tejedor E, Fuentes B, Rodríguez Pardo J, Arauz A, Ameriso SF, Perterra L, Gómez-Schneider M, Hawkes MA, Bandini F, Chavarria Cano B, Mohedano AMI, García Pastor A, Gil-Núñez A, Putaala J, Tatlisumak T, **Barboza MA**, Karagkiozi E, Makaritsis K, Papavasileiou V.

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GBD 2017 SDG Collaborators.

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PMID: 30496107 **Free PMC article.**

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[Global, regional, and national incidence, prevalence, and years lived with disability for 354 diseases and injuries for 195 countries and territories, 1990-2017: a systematic analysis for the Global Burden of Disease Study 2017.](#)

GBD 2017 Disease and Injury Incidence and Prevalence Collaborators.

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GBD 2017 Mortality Collaborators.

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GBD 2017 DALYs and HALE Collaborators.

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PMID: 30415748 **Free PMC article.**

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[Thrombin-Activatable Fibrinolysis Inhibitor Polymorphisms and Cerebral Venous Thrombosis in Mexican Mestizo Patients.](#)

Arauz A, Argüelles N, Jara A, Guerrero J, **Barboza MA.**

Clin Appl Thromb Hemost. 2018 Nov;24(8):1291-1296. doi: 10.1177/1076029618766267. Epub 2018 Apr 8.

PMID: 29629564 **Free PMC article.** Clinical Trial.

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[A Practical Score for Prediction of Outcome After Cerebral Venous Thrombosis.](#)

Barboza MA, Chiquete E, Arauz A, Merlos-Benitez M, Quiroz-Compeán A, Barinagarrementeria F, Cantú-Brito C.

Front Neurol. 2018 Oct 22;9:882. doi: 10.3389/fneur.2018.00882. eCollection 2018.

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[Measuring performance on the Healthcare Access and Quality Index for 195 countries and territories and selected subnational locations: a systematic analysis from the Global Burden of Disease Study 2016.](#)

GBD 2016 Healthcare Access and Quality Collaborators.

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[Vitamin D and disability in relapsing-remitting multiple sclerosis in patients with a Mexican background.](#)

Rito Y, Flores J, Fernández-Aguilar A, Escalante-Membrillo C, **Barboza MA,** Amezcua L, Corona T.

Acta Neurol Belg. 2018 Mar;118(1):47-52. doi: 10.1007/s13760-017-0834-3. Epub 2017 Oct 3.

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45.

[Association between Transverse Sinus Hypoplasia and Cerebral Venous Thrombosis: A Case-Control Study.](#)

Arauz A, Chavarria-Medina M, Patiño-Rodriguez HM, Varela E, Serrano F, Becerril M, **Barboza MA.**

J Stroke Cerebrovasc Dis. 2018 Feb;27(2):432-437. doi: 10.1016/j.jstrokecerebrovasdis.2017.09.019. Epub 2017 Oct 31.

PMID: 29097057

46.

[Outcome, Recurrence and Mortality after Non-Valvular Atrial Fibrillation Stroke: Long-Term Follow-Up Study.](#)

Arauz A, Ruiz-Navarro F, **Barboza MA**, Ruiz A, Colin J, Reyes M, Silos H, Cantu-Brito C, Murillo-Bonilla L, Barinagarrementeria F.

J Vasc Interv Neurol. 2017 Dec;9(6):5-11.

PMID: 29445431 **Free PMC article.**

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PMID: 28919115 **Free PMC article.**

49.

[Age- and sex-specific analysis of patients with embolic stroke of undetermined source.](#)

Ntaios G, Lip GYH, Vemmos K, Koroboki E, Manios E, Vemmou A, Rodríguez-Campello A, Cuadrado-Godia E, Roquer J, Arnao V, Caso V, Paciaroni M, Diez-Tejedor E, Fuentes B, Pérez Lucas J, Arauz A, Ameriso SF, Perterra L, Gómez-Schneider M, Hawkes MA, Bandini F, Chavarria Cano B, Iglesias Mohedano AM, García Pastor A, Gil-Núñez A, Putaala J, Tatlisumak T, **Barboza MA**, Athanasakis G, Gioulekas F, Makaritsis K, Papavasileiou V.

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PMID: 28687720 **Free PMC article.**

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[Healthcare Access and Quality Index based on mortality from causes amenable to personal health care in 195 countries and territories, 1990-2015: a novel analysis from the Global Burden of Disease Study 2015.](#)

GBD 2015 Healthcare Access and Quality Collaborators. Electronic address: cjl@uw.edu; GBD 2015 Healthcare Access and Quality Collaborators.

Lancet. 2017 Jul 15;390(10091):231-266. doi: 10.1016/S0140-6736(17)30818-8. Epub 2017 May 18.

PMID: 28528753 **Free PMC article.**

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[Comparison of Functional Outcome and Stroke Recurrence in Patients with Embolic Stroke of Undetermined Source \(ESUS\) vs. Cardioembolic Stroke Patients.](#)

Arauz A, Morelos E, Colín J, Roldán J, **Barboza MA**.

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PMID: 27832136 **Free PMC article.**

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J Vasc Interv Neurol. 2016 Oct;9(2):5-9.

PMID: 27829964 **Free PMC article.**

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[Global Survey of the Frequency of Atrial Fibrillation-Associated Stroke: Embolic Stroke of Undetermined Source Global Registry.](#)

Perera KS, Vanassche T, Bosch J, Swaminathan B, Mundl H, Giruparajah M, **Barboza MA**, O'Donnell MJ, Gomez-Schneider M, Hankey GJ, Yoon BW, Roxas A Jr, Lavallee P, Sargento-Freitas J, Shamalov N, Brouns R, Gagliardi RJ, Kasner SE, Pieroni A, Vermehren P, Kitagawa K, Wang Y, Muir K, Coutinho JM, Connolly SJ, Hart RG; ESUS Global Registry Investigators.

Stroke. 2016 Sep;47(9):2197-202. doi: 10.1161/STROKEAHA.116.013378. Epub 2016 Aug 9.

PMID: 27507860

54.

[Risk Stratification for Recurrence and Mortality in Embolic Stroke of Undetermined Source.](#)

Ntaios G, Vemmos K, Lip GY, Koroboki E, Manios E, Vemmou A, Rodríguez-Campello A, Cuadrado-Godia E, Giralt-Steinhauer E, Arnao V, Caso V, Paciaroni M, Díez-Tejedor E, Fuentes B, Pérez Lucas J, Arauz A, Ameriso SF, Hawkes MA, Perterra L, Gómez-Schneider M, Bandini F, Chavarria Cano B, Iglesias Mohedano AM, García Pastor A, Gil-Núñez A, Putaala J, Tatlisumak T, **Barboza MA**, Athanasakis G, Makaritsis K, Papavasileiou V.

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PMID: 27507859

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Ruiz-Franco A, **Barboza MA**, Jara-Prado A, Canizales-Quinteros S, Leon-Mimila P, Arguelles-Morales N, Vargas-González JC, Quiroz-Compean A, Arauz A.

J Neurol. 2016 Jun;263(6):1066-73. doi: 10.1007/s00415-016-8101-8. Epub 2016 Mar 26.

PMID: 27017342

56.

[Time to recanalisation in patients with cerebral venous thrombosis under anticoagulation therapy.](#)

Arauz A, Vargas-González JC, Arguelles-Morales N, **Barboza MA**, Calleja J, Martínez-Jurado E, Ruiz-Franco A, Quiroz-Compean A, Merino JG.

J Neurol Neurosurg Psychiatry. 2016 Mar;87(3):247-51. doi: 10.1136/jnnp-2014-310068. Epub 2015 Mar 23.

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[Vitamin D in multiple sclerosis patients: Not the same risk for everybody.](#)

Rito Y, Flores J, Fernández Aguilar Á, Escalante Membrillo C, Gutiérrez Lanz E, **Barboza MA**, Rivas Alonso V, Treviño Frenk I, Corona Vázquez T.

Mult Scler. 2016 Jan;22(1):126-7. doi: 10.1177/1352458515576986. Epub 2015 Mar 12.

PMID: 25767126 No abstract available.

58.

[Intracranial venous collaterals in cerebral venous thrombosis: clinical and imaging impact.](#)

Barboza MA, Mejías C, Colin-Luna J, Quiroz-Compean A, Arauz A.

J Neurol Neurosurg Psychiatry. 2015 Dec;86(12):1314-8. doi: 10.1136/jnnp-2014-309717. Epub 2015 Jan 14.

PMID: 25589781

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[Multiple hereditary exostoses and stroke due to vertebral artery dissection.](#)

Arauz A, Hernández-Curiel B, Colin-Luna J, Dávila-Ortiz de Montellano DJ, **Barboza MA**.

J Vasc Interv Neurol. 2015 Feb;8(1):46-8.

PMID: 25825632 **Free PMC article.**

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[Reversible cerebral vasoconstriction syndrome and nonaneurysmal subarachnoid hemorrhage.](#)

Barboza MA, Maud A, Rodriguez GJ.

J Vasc Interv Neurol. 2014 Jun;7(2):17-20.

PMID: 25132905 **Free PMC article.**

61.

[Endovascular treatment of intracranial aneurysms by interventional neurologists: first year single-center experience.](#)

Maud A, Rodriguez GJ, **Barboza MA**.

J Vasc Interv Neurol. 2014 Jun;7(2):13-6.

PMID: 25132904 **Free PMC article.**

Research Protocols and Local Initiatives

- Latin American Stroke Registry (LASE). Collaborator (current 2 publications)
- International Cerebral Venous Thrombosis Consortium. Collaborator (current 5 publications)
- CVT Registry of the INNN. Long-term follow-up. Collaborator (current)
- Mexican Registry of Fabry Disease in young patients with ischemic stroke. Instituto Nacional de Neurología y Neurocirugía, México D.F. Collaborator (current)
- Non-valvular Atrial Fibrillation in Mexican Population: Long-term follow-up. Instituto Nacional de Neurología y Neurocirugía, México D.F. Collaborator (current)
- Decompressive surgery for patients with cerebral venous thrombosis: prospective registry. Instituto Nacional de Neurología y Neurocirugía, México D.F. Collaborator (current)
- Association of E670G, R218S and F216L polymorphisms from the protein convertase subtilisin/kexin type 9 (PCSK9) in atherosclerotic ischemic stroke in Mexican population. Instituto Nacional de Neurología y Neurocirugía, México D.F. PI (Master Thesis)
- Dual antiplatelet therapy with aspirin and clopidogrel after carotid endarterectomy in restenosis prevention. Hospital Rafael A. Calderón Guardia, CCSS, San José, CR. PI (concluded)
- Cost Rican molecular characteristics in ion-channel pathology. Universidad de Costa Rica. Collaborator (current).
- Reducing the International Burden of Stroke Using Mobile Technology (RIBURST). Auckland University of Technology. Steering Committee/collaborator (current).
- Embolic Source of Undetermined Source (ESUS) Working Group. McMaster University. Collaborator (current 3 publications)
- Benefit of extending oral anticoagulant treatment after cerebral vein and dural sinus thrombosis (EXCOA-CVT). Centro Hospitalario de Santa María, Lisboa, Portugal. Collaborator (current)
- Estrategia CAMALEON para educación poblacional en signos tempranos del infarto cerebral: Plan piloto Costa Rica (CAMALEON strategy for early signs in stroke: population based educational campaign). Campaign Manager. Caja Costarricense del Seguro Social, Costa Rica (current). Launch date: October 14th 2016.

Poster and Oral presentations

- **2017.** Warning stroke signs and symptoms in Spanish-speaking population: the CAMALEON strategy. International Stroke Conference AHA/ASA, Houston, Tx, USA
- **2017.** Mortality and recurrence in atherosclerotic ischemic stroke: long term follow-up. International Stroke Conference AHA/ASA, Houston, Tx, USA
- **2017.** Work performance questionnaire after returning to work in ischemic stroke survivors: The Work Performance Survey. International Stroke Conference AHA/ASA, Houston, Tx, USA
- **2016.** Prevalence of Fabry disease in a cryptogenic ischemic stroke young patients cohort in Mexico. European Stroke Organization Conference, Glasgow
- **2016.** Correlation between site of venous occlusion and clinical syndromes in cerebral venous thrombosis. International Stroke Conference AHA/ASA, Los Angeles, USA
- **2016.** Hypoplasia of transverse sinus and risk of cerebral venous thrombosis. International Stroke Conference AHA/ASA, Los Angeles, USA
- **2015.** Functional outcome and recurrence between embolic stroke of undetermined source (ESUS) and cardioembolic stroke in a Mexican cohort. European Stroke Organization Conference, Glasgow
- **2015.** Decompressive craniectomy in cerebral venous thrombosis. European Stroke Organization Conference, Glasgow
- **2015.** Association of E670G, R218S and F216L polymorphisms from the protein convertase subtilisin/kexin type 9 (PCSK9) in atherosclerotic ischemic stroke in Mexican population. International Stroke Congress, Nashville, Tennessee, U.S.A
- **2014.** A simple score for prediction of outcome in cerebral venous thrombosis. XXXVIII Mexican Academy of Neurology Congress. Cancún, México
- **2014.** Clinical and radiological correlation in vertebrobasilar dissection. XXXVIII Mexican Academy of Neurology Congress. Cancún, México
- **2014.** Intracranial venous collaterals in cerebral venous thrombosis: clinical and imaging impact. XXXVIII Mexican Academy of Neurology Congress. Cancún, México
- **2014.** Mexican Registry of Fabry Disease in young patients with ischemic stroke. Oral presentation. XXXVIII AMEVASC Congress. Guadalajara, México.
- **2014.** Dual antiplatelet therapy with aspirin and clopidogrel after carotid endarterectomy in restenosis prevention. Poster. XI World Stroke Congress. Istanbul, Turkey.
- **2014.** *TGFBR2* mutation and *C677T-MTHFR* polymorphism in cervical artery dissection. XXXVI AMEINNN Congress, Guanajuato, México
- **2014.** Non-valvular Atrial Fibrillation in Mexican Population: Long-term follow-up. Oral presentation. XXXVI AMEINNN Congress, Guanajuato, México
- **2013.** Experiencia de Endarterectomías carótideas en el período del 01/06/10 al 01/06/11 en el hospital Rafael Angel Calderón Guardia. Oral presentation. LXXV National Medical Congress. San José, Costa Rica.
- **2012.** Enfermedad carotídea sintomática: manejo quirúrgico agudo mediante endarterectomía carotídea. Poster. XII Panamerican Neurology Congress, La Paz, Bolivia
- **2008.** Eventos cerebrovasculares de la circulación posterior y su traducción clínica. LXX National Medical Congress. Poster. San José, Costa Rica

Awards:

1. Experiencia de endarterectomías carotídeas en el período del 01/06/10 al 01/06/11 en el hospital Rafael Angel Calderón Guardia. Primer premio en presentación oral. LXXV Congreso Médico Nacional, CMC, San José Costa Rica. 2012
2. Seguimiento a largo plazo en pacientes mexicanos con infarto cerebral y fibrilación atrial no valvular. Primer premio en presentación oral. XXXVI Congreso AMEINNN, Guanajuato México. 2014
3. World Stroke Organization Academic Scholarship for the European Master in Stroke Medicine, Krems an der Donau Universität, Austria. 2014-presente.
4. Score simple para la predicción de mortalidad en trombosis venosa cerebral. Primer premio en presentación oral. XXXVIII Congreso de la Academia Mexicana de Neurología. Cancún, México. 2014
5. Premio a la Excelencia en Investigación Científica. Colegio de Médicos y Cirujanos de Costa Rica. Primer premio. 2016