

DEMOGRAPHIC DATA:

Name: PILAR DELGADO MARTÍNEZ.

Date of birth: August 26th, 1975.

Place of birth: Sant Feliu de Llobregat, Barcelona.

CURRENT JOB PLACE:

Address: Research Institute. University Hospital Vall d'Hebron. Neurovascular Research Laboratory. First floor, room 110. Passeig Vall d'Hebron 119-129, CP 08035 Barcelona.

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ACADEMIC INFORMATION:

Barcelona Autònoma University (UAB).

PhD, internal medicine (2006)

Dissertation: "Biological markers after intracerebral hemorrhage and their relationship with radiological and clinical outcome".

RESIDENCY (2000-2004)

Neurology.

Vall d'Hebron Hospital.

Barcelona, Spain.

FELLOWSHIPS

Neurovascular Unit. Neurology Department (2004-2008).

Research fellowship. Massachusetts General Hospital. Hemorrhagic Stroke Research Group (May 2007-June 2008).

Barcelona University (UB).

MD (1994-1999).

Barcelona, Spain.

PROFESSIONAL EXPERIENCE

ATTENDING PHYSICIAN

Vall d'Hebron Hospital. Emergency room neurologist (2004-2008).

POST-DOCTORAL RESEARCHER

Research Institute Vall d'Hebron. Neurovascular Research laboratory (2009 to present).

MEMBERSHIPS AND ASSOCIATIONS

Spanish Neurological Society.

PUBLICATIONS

Purroy Garcia F, Montaner J, Delgado P, Ribó M, Arenillas JF, Quintana M, Alvarez Sabín J. Clinical factors predicting the appearance of vascular events following a transient ischemic attack. *Revista de Neurologia* 2004; 38: 416-21.

Alvarez-Sabín J, Delgado P, Abilleira S, Molina CA, Arenillas J, Ribó M, Santamarina E, Quintana M, Monasterio J, Montaner J. Temporal Profile of Matrix Metalloproteinases and their inhibitors after Spontaneous Intracerebral Hemorrhage. Relationship to Clinical and Radiological Outcome. *Stroke*. 2004; 35 (6): 1316-22.

Purroy F, Montaner J, Rovira A, Delgado P, Quintana M, Álvarez-Sabín J. Higher risk of further vascular events among transient ischemic attack patients with diffusion-weighted imaging acute ischemic lesions. *Stroke*. 2004 Oct; 35: 2313-9.

Ribó M, Molina CA, Rovira A, Quintana M, Delgado P, Montaner J, Grivé E, Arenillas JF, Álvarez-Sabín J. Safety and efficacy of intravenous tissue plasminogen activator stroke treatment in the 3 to 6 hour window using multimodal transcranial Doppler/MRI selection protocol. *Stroke*. 2005 Mar; 36:602-606.

Rosell A, Álvarez-Sabín J, Arenillas JF, Rovira A, Delgado P, Fernández-Cadenas I, Penalba A, Molina CA, Montaner J. A matrix metalloproteinase array reveals a strong relation between MMP-9 and MMP-13 with diffusion-weighted image lesion increase in human stroke. *Stroke* 2005; 36:1415-20.

Rubiera M, Álvarez-Sabín J, Ribó M, Montaner J, Santamarina E, Arenillas JF, Huertas R, Delgado P, Purroy F, Molina CA. Predictors of early arterial reocclusion after tissue plasminogen activator-induced recanalization in acute ischemic stroke. *Stroke* 2005; 36: 1452-6.

Delgado P, Montaner J, Chacón P, Purroy F, Ribó M, Álvarez-Sabín J. Lipid profile in the hyperacute phase of ischemic stroke allows to decide cholesterol-lowering therapy. *Medicina Clínica*. 2005; 124: 295-7.

Molina CA, Ribó M, Rubiera M, Montaner J, Santamarina E, Delgado-Mederos R, Arenillas JF, Huertas R, Purroy F, Delgado P, Álvarez-Sabín J. Microbubble administration accelerates clot lysis during continuous 2-MHz ultrasound monitoring in stroke patients treated with intravenous tissue plasminogen activator. *Stroke* 2006; 37:425-9.

Fernández-Cadenas I, Molina CA, Álvarez Sabín J, Ribó M, Penalba A, Ortega-Torres L, Delgado P, Quintana M, Rosell A, Montaner J. ACE gene polymorphisms influence t-PA-induced brain vessel reopening following ischemic stroke. *Neurosci Lett* 2006; 398: 167-171.

Ribó M, Álvarez Sabín J, Montaner J, Romero F, Delgado P, Rubiera M, Delgado-Mederos R, Molina CA. Temporal profile of recanalization after intravenous tissue plasminogen activator: selecting patients for rescue reperfusion techniques. *Stroke* 2006; 37: 1000-4.

Hernández AH, Pujadas F, Purroy F, Delgado P, Huertas R, Álvarez Sabín J. Upside down reversal of vision due to an isolated acute cerebellar ischemic infarction. *J Neurol* 2006; 253:953-954.

Delgado P, Sahuquillo J, Poca MA, Álvarez-Sabín J. Neuroprotection in malignant MCA infarction. *Cerebrovasc Dis* 2006; 21 Suppl 2: 99-105.

Purroy F, Montaner J, Delgado P, Arenillas JF, Molina CA, Santamarina E, Quintana M, Álvarez-Sabín J. Usefulness of urgent combined carotid/ transcranial ultrasound testing in early prognosis of TIA patients. *Med Clin* 2006; 126: 647-50.

Delgado P, Álvarez-Sabín J, Abilleira S, Santamarina E, Purroy F, Arenillas JF, Molina CA, Fernández-Cadenas I, Rosell A, Montaner J. Plasma D-dimer predicts poor outcome after acute intracerebral hemorrhage. *Neurology* 2006; 67:94-98.

Rubiera M, Ribó M, Delgado-Mederos R, Santamarina E, Delgado P, Montaner J, Álvarez-Sabín J, Molina CA. Tandem internal carotid artery/middle cerebral artery occlusion: an independent predictor of poor outcome after systemic thrombolysis. *Stroke* 2006; 37: 2301-5.

Delgado P, Álvarez-Sabín J, Santamarina E, Molina CA, Quintana M, Rosell A, Montaner J. Plasma S100B level after acute spontaneous intracerebral hemorrhage. *Stroke* 2006; 37: 2837-9.

Purroy F, Montaner J, Molina CA, Delgado P, Arenillas JF, Chacón P, Quintana M, Álvarez-Sabín J. C-reactive protein predicts further ischemic events in transient ischemic attack patients. *Acta Neurol Scand* 2007;115: 60-6.

Delgado-Mederos R, Rovira A, Alvarez-Sabín J, Ribó M, Munuera J, Rubiera M, Santamarina E, Maisterra O, Delgado P, Montaner J, Molina CA. Speed of tPA-induced clot lysis predicts DWI lesion evolution in acute stroke. *Stroke* 2007; 38: 955-60.

Álvarez-Sabín J, Huertas R, Quintana M, Rubiera M, Delgado P, Ribó M, Molina CA, Montaner J. Prior statin use may be associated with improved stroke outcome after tissue plasminogen activator. *Stroke* 2007; 38: 1076-8.

F. Purroy, J. Montaner, CA Molina, P. Delgado, M. Ribó, J. Álvarez-Sabín. Patterns and predictors of early risk of recurrence after transient ischemic attack with respect to etiologic subtypes. *Stroke* 2007; 38 (12): 3225-9.

P. Delgado, J. Álvarez-Sabín, J. Montaner. Biological markers in spontaneous intracerebral hemorrhage. *Neurología* 2007; 22(7): 448-55.

B. Benejam, M.A Poca, C. Junque, J. Álvarez-Sabín, P. Delgado, L. Frascheri, M. Martínez, J. Sahuquillo. A proposal of neuropsychological and quality of life assessment protocol in patients with malignant middle cerebral artery infarction. *Neurología* 2007; 22.

F. Purroy, CA Molina, J. Montaner, P. Delgado, E. Santamarina, M. Toledo, M. Quintana, J. Álvarez-Sabín. Lack of usefulness of ABCD score in the early risk of recurrent stroke in transient ischemic attack patients. *Med Clin* 2007; 128(6):201-3.

Donaire A, Carreño M, Agudo R, Delgado P, Bargalló N, Setoain X, Boget T, Raspall T, Falip M, Rumià J, Pintor L, Maestro I. Presurgical evaluation in refractory epilepsy secondary to meningitis or encephalitis: bilateral memory deficits often preclude surgery. *Epileptic Disord.* 2007 Jun;9(2):127-33.

Ribó M, Molina CA, Delgado P, Rubiera M, Delgado-Mederos R, Rovira A, Munuera J, Álvarez-Sabín J. Hyperglucemia during ischemia rapidly accelerates brain damage in stroke patients treated with tPA. *J Cer Blood Flow Metab* 2007; 27:1616-22.

P. Delgado, E. Cuadrado-Godia, A. Rosell, J. Álvarez-Sabín, A. Ortega-Aznar, M. Hernández-Guillamón, A. Penalba, CA Molina, J. Montaner. Fas system activation in perihematomal areas after spontaneous intracerebral hemorrhage. *Stroke* 2008; 39 (6): 1730-4.

JF Arenillas, J. Álvarez-Sabín, CA Molina, P. Chacón, I. Fernández-Cadenas, M. Ribó, P. Delgado, M. Rubiera, A. Penalba, A. Rovira, J. Montaner. Progression of symptomatic intracranial large artery atherosclerosis is associated with a proinflammatory state and impaired fibrinolysis. *Stroke* 2008; 39 (5): 1456-63.

A. Rosell, E. Cuadrado, J. Álvarez-Sabín, M. Hernández-Guillamón, P. Delgado, A. Penalba, M. Mendioroz, A. Rovira, I. Fernández-Cadenas, M. Ribó, CA Molina, J. Montaner. Caspase-3 is related to infarct growth after human ischemic stroke. *Neurosci Lett* 2008; 430 (1):1-6.

R. Delgado-Mederos, M. Ribó, A. Rovira, M. Rubiera, J. Munuera, E. Santamarina, P. Delgado, O. Maisterra, J. Álvarez-Sabín, CA Molina. Prognostic significance of blood pressure variability after thrombolysis in acute stroke. *Neurology* 2008; 71 (8): 552-8.

J. Montaner, M. Perea-Gainza, P. Delgado, M. Ribó, P. Chacón, A. Rosell, M. Quintana, ME Palacios, CA Molina, J. Álvarez-Sabín. Etiologic diagnosis of ischemic stroke subtypes with plasma biomarkers. *Stroke* 2008; 39 (8): 2280-7.

M. Rubiera, M. Ribó, R. Delgado-Mederos, E. Santamarina, O. Maisterra, P. Delgado, J. Montaner, J. Álvarez-Sabín, CA Molina. Do bubble characteristics affect recanalization in stroke patients treated with microbubble-enhanced sonothrombolysis? *Ultrasound Med Biol* 2008; 34 (10):1573-7.

EE Smith, M. Vijayappa, F. Lima, P. Delgado, L. Wendell, J. Rosand, SM Greenberg. Impaired visual evoked flow response in cerebral amyloid angiopathy. *Neurology* 2008; 71 (18): 1424-30.

RNK Nandigam, A. Viswanathan, P. Delgado, ME Skehan, EE Smith, J. Rosand, SM Greenberg, BC Dickerson. MRI detection of cerebral microbleeds. Effect of susceptibility-weighted imaging, slice thickness and field strength. *AJNR Am J Neuroradiol.* 2009 Feb;30(2):338-43.

Santamarina E, Delgado-Mederos R, Rubiera M, Delgado P, Ribo M, Maisterra O, Alvarez-Sabin J, Molina CA. Transcranial Duplex sonography for monitoring hyperacute intracerebral hemorrhage. *Stroke.* 2009 Mar;40(3):987-90.

Hernández-Guillamón M, Delgado P, Ortega L, Pares M, Rosell A, Garcia-Bonilla L, Fernández-Cadenas I, Borrell-Pages M, Boada M, Montaner J. Neuronal TIMP-1 release

accompanies astrocytic MMP-9 secretion and enhances astrocyte proliferation induced by beta-amyloid 25-35 fragment. *J. Neurosci Res* 2009;87: 2115-25.

Benejam B, Sahuquillo J, Poca MA, Frascheri L, Solana E, Delgado P, Junqué C. Quality of life and neurobehavioral changes in survivors of malignant middle cerebral artery infarction. *J Neurol.* 2009; 256:1126-33.

Greenberg SM, Nandigam RNK, Delgado P, Schoenfeld D, Zhang H, Betensky RA, Rosand J, Viswanathan A, Frosch MP, Smith EE. Microbleeds and Macrobleeds: Evidence for Distinct Pathophysiologies. *Stroke* 2009; 40:2382-6.

Rubiera M, Ribo M, Santamarina E, Maisterra O, Delgado-Mederos R, Delgado P, Ortega G, Alvarez-Sabin J, Molina CA. Is it Time to Reassess the SITS-MOST Criteria for Thrombolysis? A Comparison of Patients with and without SITS-MOST Exclusion Criteria. *Stroke* 2009;40:2568-71.

Poca MA, Benejam B, Sahuquillo J, Riveiro M, Frascheri L, Merino MA, Delgado P, Alvarez-Sabin J. Monitoring intracranial pressure in patients with malignant middle cerebral artery infarction: is it useful? *J Neurosurg.* 2009 Aug 7. [E-publication ahead of print].

Domingues-Montanari S, Fernández-Cadenas I, Del Río-Espinola A, Mendioroz M, Fernandez-Morales J, Corbeto N, Delgado P, Ribó M, Rubiera M, Obach V, Martí-Fàbregas J, Freijo M, Serena J, Montaner J. KCNK17 genetic variants in ischemic stroke. *Atherosclerosis.* 2009 Jul 30. [E- publication ahead of print].

Mendioroz M, Fernández-Cadenas I, Alvarez-Sabín J, Rosell A, Quiroga D, Cuadrado E, Delgado P, Rubiera M, Ribó M, Molina C, Montaner J. Endogenous activated protein C predicts hemorrhagic transformation and mortality after tissue plasminogen activator treatment in stroke patients. *Cerebrovasc Dis* 2009; 28:143-50.

Fernandez-Cadenas I, Mendioroz M, Munuera J, Alvarez-Sabin J, Rovira A, Quiroga A, Corbeto N, Rubiera M, Delgado P, Rosell A, Ribó M, Molina CA, Montaner J. Lower concentrations of thrombin-antithrombin complex (TAT) correlate to higher recanalisation rates among ischaemic stroke patients treated with t-PA. *Tromb Haemost.* 2009; 102(4):759-64.

OTHER JOURNALS AND BOOK CHAPTERS:

P.Delgado. Decompressive craniectomy in malignant middle cerebral artery (MCA) infarction: Is there enough evidence? *Revista del Grupo de enfermedades cerebrovasculares de la SEN*, number 2, october 2007, 19-20.

P.Delgado. Physiopathology of brain edema in intracerebral hemorrhage. *Revista del Grupo de Enfermedades cerebrovasculares de la SEN*, número 5, 17-20.

Book chapter: Hypothermia, decompressive craniectomy and oxygen therapy. In *Stroke Treatment*. Marge Eds, 2009.

Book chapter: TIA as a marker of polyvascular disease.
In: Transient ischemic Attack.
Marge Eds, 2009.

RESEARCH PROJECTS:

Project title: "Risk haplotypes in cerebral amyloid angiopathy"
Role: Collaborator Researcher.
Funding: Catalanian Neurology Society Foundation (Uriach Fellowship).
Amount of funding: 6.000 euros
Duration: 2004-2005.

Project title: Participation of proteolytic systems in cerebral amyloid angiopathy progresión.
Role: Collaborator Researcher.
Funding: Fondo de Investigaciones Sanitarias (FIS). Institute of Health Carlos III.
Amount of Funding: 161.535 euros
Duration: 2008-2010.

Project title: "Influence of Endothelial Progenitor Cells on the temporal and spatial modulation of angiogenesis and vasculogenesis after human ischemic stroke".
Role: Collaborator Researcher
Funding: Fondo de Investigaciones Sanitarias (FIS). Institute of Health Carlos III.
Amount of Funding: 240.185 euros.
Duration: 2007-2009.

OTHER ACTIVITIES OR RELEVANT MERITS OF SCIENTIFIC, TECHNIC OR ACADEMIC INTEREST

Contributions to national or internationals meetings:

- Annual meeting of the Spanish Neurological Society (2001-2008).
- European Stroke Conference (2003-2009).
- International Stroke Conference (2005-2009).
- Cerebral Amyloid Angiopathy: Emerging Concepts, Iceland 2007.

Participation in Ph D courses as professor (Autonoma University of Barcelona, UAB):

- Transient Cerebral Ischemia. April 2005.
- IX Update course in Dementias for Primary Care Physicians. Vascular Risk Prevention. May, 2006.
- II, III, IV and V Courses of diagnostic advances and treatment in acute stroke. Barcelona, 2005 al 2008.
- III, IV y V Translational Neurovascular Research. Barcelona 2005- 2007.

Participation as collaborator Researcher in Clinical Trials:

MISTIC. Inflammatory markers post- simvastatin and triflusal in cerebral ischemia. Multicentric clinical trial, randomized, double blind, pilot to compare the effect of simvastatin, associated with aspirin or triflusal, in the evolution of inflammatory markers in the acute phase of ischemic stroke and its clinical-radiological correlation.

CLOTBUST Trial. Combined Lysis of Thrombus in Brain Ischemia with Transcranial Ultrasound and systemic t-PA.

SAINT-II. Stroke- Acute Ischemic- NXY-059 (Cerovive) Treatment.

ECASS-III. Placebo-controlled trial with alteplase (rt-PA) in acute ischemic hemispheric stroke where thrombolysis is initiated between 3 and 4 hours after stroke onset.

CHANT. Cerebral Hemorrhage and NXY-059 Treatment.

MITICO. Markers of inflammation after cerebral infarction. Observational study.

AbESTT-II. A Study of Effectiveness and Safety of Abciximab in Patients With Acute Ischemic Stroke.

FAST. Recombinant Factor VIIa in Acute Intracerebral hemorrhage.

ICTUS. International Citicoline Trial in Acute Ischemic Stroke.

PRoFESS. Prevention Regimen for Effectively avoiding second strokes.

SITS-MOST. Safe Implementation of Thrombolysis in Stroke Monitoring Study.

PERFORM: The Prevention of cerebrovascular and cardiovascular events of ischemic origin with Terutroban in patients with history of ischemic stroke or transient ischemic attack trial.