CURRICULUM VITAE

PROF. DR. MED. PETER D. SCHELLINGER

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DATE OF BIRTH: 7. August 1967, Würzburg, Germany

BACKGROUND:

Since 05-2017	Executive Committee, ESO
07-2016	Director, University Professor and Chairman, Depts of Neurology and Neurogeriatry, John Wesling Medical Center, University Clinic of the Ruhr University Bochum (RUB)
02-2013	FAHA (Fellow of the American Heart Organization)
2013-2015	Executive Committee, German Society of Neurocritical Care and Emergency Medicine
Since 07/2010	Professor and Chairman, Depts of Neurology and Neurogeriatry, John Wesling Medical Center Minden
2009-2016	Board of Directors, ESO
2008	FESO (Fellow of the European Stroke Organization)
02/2007	Professor (apl Prof.) Medical Faculty, University Clinic at Erlangen
Since 05/2006	Vice Chairman

	Dept. of Neurology, University Clinic at Erlangen
10/2005	Professor (apl Prof.) Medical Faculty, Ruprecht Karls University Heidelberg
05/2004 – 04/2006	Associate Professor (Priv.-Doz.) Dept. of Neurology, University Clinic at Heidelberg
05/2003 – 04/2004	Invited Visiting Fellow National Institute of Neurological Disorders and Stroke, NIH, Bethesda, USA
12/2002-01/2003	PhD and Assistant Professor for Neurology an der Medical Faculty, Ruprecht Karls University Heidelberg Topic: "Role of Novel MRI Techniques in the diagnosis of acute stroke " (Habilitation)
1994-2002	Internship, Residency, Fellowship in Neurology Depts. of Neurology, Neuroradiology and Psychiatry, University Clinic at Heidelberg
07/1997:	Medical Doctorate at the Technical Univ. in Aachen (RWTH Aachen) Topic: „Role of CT and MRI in the diagnosis of brain metastases “ Magna cum laude
1987-1994:	Medical School RWTH Aachen

BOARD CERTIFIED SUBSPECIALTIES:

- Stroke
- Critical Care
- Geriatry

RESEARCH-FOCUS:

- Diagnosis and Therapy of acute IS and ICH
- Logistics and Emergency Treatment in Neurological Diseases
- Secondary Prophylaxis and Neuroprotection after cerebral ischemia and ICH
- Pathophysiology and Hemodynamics of peri-

hemorrhagic areas after ICH
- Neurological Critical Care

AFFILIATIONS:

DGN: German Society of Neurology
DGNB: German Society for Neuroscientific Expert Witness Reporting
DGNI: German Society of Neurological Critical Care and Emergency Medicine
DGKN: German Society of Clinical Neurophysiology
AAN: American Academy of Neurology
ASA: American Stroke Association, Scientific Programm committee ISC, FAHA
DSG: German Stroke Society
ESO: European Stroke Organization, former Board of Directors, Executive Committee, FESO
WSO: World Stroke Organization

REVIEWER-BOARDS:

a.o. Lancet, Lancet Neurology, Brain, Circulation, Stroke, Cerebrovascular Diseases, Neurocritical Care, Critical Care Medicine, Annals of Neurology, Nervenarzt, Journal of Neurology Neurosurgery and Psychiatry, European Neurology, American Journal of Neuroradiology, American Journal of Radiology, Journal of Magnetic Resonance Imaging, BMJ.

CLINICAL TRIAL EXPERIENCE:

All major acute stroke and ICH trials and most secondary prophylaxis trials for stroke since 1994 in Heidelberg, Erlangen, Minden
Selection: ECASS 1-3, DIAS 1-3, DEDAS, NOVO-7, FAST, SENTIS, FASTFLO, FLO 24, IMPACT 1, IMPACT 24, PRIISM, ICTUS, ICTUS-L, NEST 2-3, TRA 2P, MATCH, PROFESS, SPARCL, SPACE 1-2, Abbest, ASP, EPO, AXIS, STICH 2, FIND AF, MACSI, CLOTBUSTER, SOCRATES, RESPECT ESUS, RESPECT CVT, CHARM, REMEDY, ACTION-2, RESPECT CVT…
Steering Committee member for: TUCSON, ECASS 4-EXTEND, CLOTBUST-ER

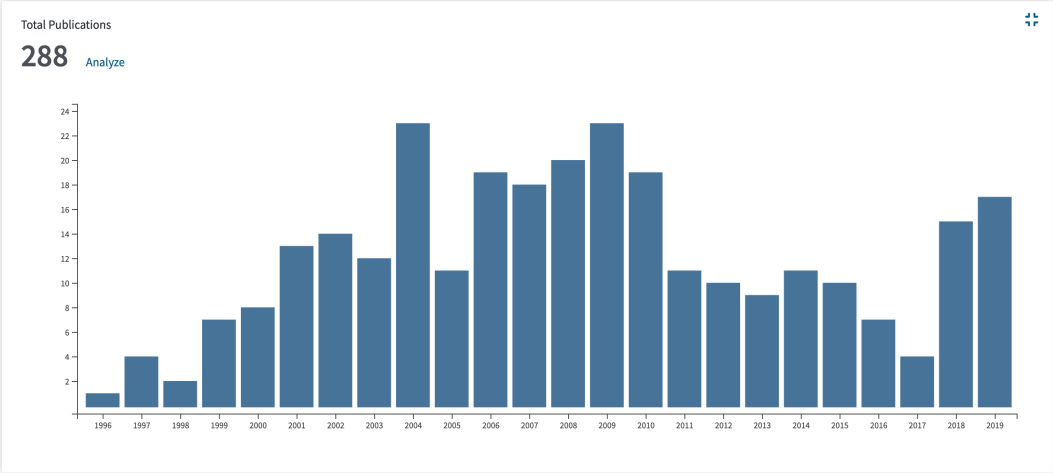
EDITORIAL BOARDS / COMMITTEES:

European Neurology 2006-2010
Stroke 2007-2013
Journal of Stroke 2012-

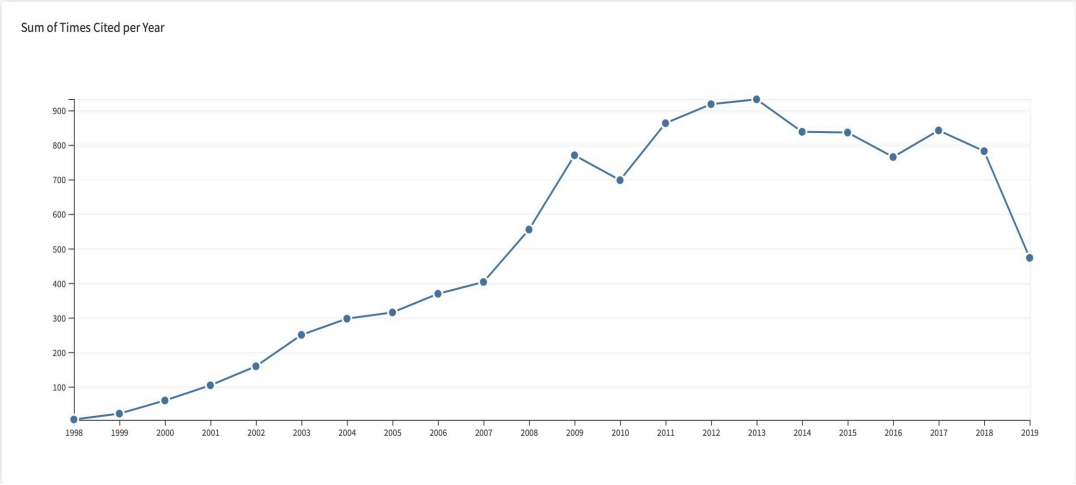
PUBLICATIONS/ SCIENCE:

>1300 Impact Points
Hirsch Factor 55
270 peer reviewed publications
>50 books and book chapters
ESO Guidelines Author for Acute Stroke Management

Published Items



Citations/Year



Publikationen der letzten 5 Jahre (2015-2019): IF 403.578

1. Kurka N, Bobinger T, Kallmunzer B, Koehn J, Schellinger PD, Schwab S, Kohrmann M. Reliability and limitations of automated arrhythmia detection in telemetric monitoring after stroke. *Stroke*. 2015;46:560-563. **IF=6.046**

2. Kuramatsu JB, Gerner ST, Schellinger PD, Glahn J, Endres M, Sobesky J, Flechsenhar J, Neugebauer H, Juttler E, Grau A, Palm F, Rother J, Michels P, Hamann GF, Huwel J, Hagemann G, Barber B, Terborg C, Trostdorf F, Bazner H, Roth A, Wohrle J, Keller M, Schwarz M, Reimann G, Volkmann J, Mullges W, Kraft P, Classen J, Hobohm C, Horn M, Milewski A, Reichmann H, Schneider H, Schimmel E, Fink GR, Dohmen C, Stetefeld H, Witte O, Gunther A, Neumann-Haefelin T, Racs AE, Nueckel M, Erbguth F, Kloska SP, Dorfler A, Kohrmann M, Schwab S, Huttner HB. Anticoagulant reversal, blood pressure levels, and anticoagulant resumption in patients with anticoagulation-related intracerebral hemorrhage. *JAMA-J. Am. Med. Assoc.* 2015;313:824-836. **IF=35.289**

3. Golsari A, Cheng B, Sobesky J, Schellinger PD, Fiehler J, Gerloff C, et al. Stroke lesion volumes and outcome are not different in hemispheric stroke side treated with intravenous thrombolysis based on magnetic resonance imaging criteria. *Stroke*. 2015;46:1004-1008. **IF= IF=6.046**

4. Kulla M, Friess M, Schellinger PD, Harth A, Busse O, Walcher F, Helm M: [Consideration of guidelines, recommendations and quality indicators for treatment of stroke in the dataset "emergency department" of DIVI]. *Nervenarzt*. 2015; 86:1538–1548. **IF=0.787**

5. Schellinger PD, Köhrmann M: [Atrial appendage occlusion in atrial fibrillation? Con]. *Nervenarzt*. 2015;86:1275-1276. **IF=0.787**

6. Schellinger PD, Alexandrov AV, Barreto AD, Demchuk AM, Tsivgoulis G, Kohrmann M, Alleman J, Howard V, Howard G, Alexandrov AW, Brandt G, Molina CA, Investigators C: Combined lysis of thrombus with ultrasound and systemic tissue plasminogen activator for emergent revascularization in acute ischemic stroke (clotbust-er): Design and methodology of a multinational phase 3 trial. *Int J Stroke* 2015;10:1141-1148. **IF=4.466**

7. Schellinger PD, Köhrmann M: [MR vs CT Imaging in Acute Stroke – CT is enough - Contra]. *Akt Neurol*. 2015;86:1275-1276. **IF=0.320**

8. Amiri H, Bluhmki E, Bendszus M, Eschenfelder CC, Donnan GA, Leys D, Molina C, Ringleb PA, Schellinger PD, Schwab S, Toni D, Wahlgren N, Hacke W: European cooperative acute stroke study-4: Extending the time for thrombolysis in emergency neurological deficits ecass-4: Extend. *Int J Stroke* 2016;11:260-2. **IF=4.466**

9. Luby M, Warach SJ, Albers GW, Baron JC, Cognard C, Davalos A, Donnan GA, Fiebach JB, Fiehler J, Hacke W, Lansberg MG, Liebeskind DS, Mattle HP, Oppenheim C, Schellinger PD, Wardlaw JM, Wintermark M: Identification of imaging selection patterns in acute ischemic stroke patients and the influence on treatment and clinical trial enrollment decision making. *Int J Stroke* 2016;11:180-190. **IF=4.466**

10. Schellinger PD, Kohrmann M, Nogueira RG: Logistical and financial obstacles for endovascular therapy of acute stroke implementation. *Int J Stroke* 2016;11:502-508.

IF=4.466

11. Fiehler J, Cognard C, Gallitelli M, Jansen O, Kobayashi A, Mattle HP, Muir KW, Mazighi M, Schaller K, Schellinger PD: European recommendations on organisation of interventional care in acute stroke (eroicas). *Int J Stroke* 2016;11:701-716. **IF=4.466**

12. Apetroae A, Strenzke T, Ferbert A, Schellinger PD: [spontaneous intracranial hypotension and marfan syndrome]. *Nervenarzt* 2016;87:846-852. **IF=0.787**

13. Tsivgoulis G, Zand R, Katsanos AH, Turc G, Nolte CH, Jung S, Cordonnier C, Fiebach JB, Scheitz JF, Klinger-Gratz PP, Oppenheim C, Goyal N, Safouris A, Mattle HP, Alexandrov AW, Schellinger PD, Alexandrov AV: Risk of symptomatic intracerebral hemorrhage after intravenous thrombolysis in patients with acute ischemic stroke and high cerebral microbleed burden: A meta-analysis. *JAMA Neurol* 2016;73:675-683. **IF=8.230**

14. Warach SJ, Luby M, Albers GW, Bammer R, Bivard A, Campbell BC, Derdeyn C, Heit JJ, Khatri P, Lansberg MG, Liebeskind DS, Majoie CB, Marks MP, Menon BK, Muir KW, Parsons MW, Vagal A, Yoo AJ, Alexandrov AV, Baron JC, Fiorella DJ, Furlan AJ, Puig J, Schellinger PD, Wintermark M, Stroke Imaging R, Investigators VI-I: Acute stroke imaging research roadmap iii imaging selection and outcomes in acute stroke reperfusion clinical trials: Consensus recommendations and further research priorities. *Stroke* 2016;47:1389-1398. **IF=6.046**

15. Tsivgoulis G, Katsanos AH, Mavridis D, Alexandrov AW, MagoufisG, Adam A, Caso V, Schellinger PD, Alexandrov AV: Endovascular Thrombectomy with or without systemic thrombolysis ?. *Ther Adv Neurol Disord* 2017;10(3): 151-160. **IF=3.58**

16. Wilson A, Bath PMW, Berge E, Cadilhac DAC, Cuche M, Ford GA, Macisaac R, Quinn TJ, Taylor M, Walters M, Wolff C, Lees KR, ESO-VISTA Health Economics Working Group: Understanding the relationship between costs and the modified Rankin Scale: A systematic review, multidisciplinary consensus and recommendations for future studies. *European Stroke Journal* 2017; 2(1): 3-12. **IF=under calculation**

17. Schellinger PD, Tsivgoulis G: Another enchantment from enchanted (enhanced control of hypertension and thrombolysis stroke study): Are savings and safety more salutary than efficacy? *Stroke* 2017;48:1720-1722. **IF=6.046**

18. Tsivgoulis G, Katsanos AH, Zand R, Sharma VK, Kohrmann M, Giannopoulos S, Dardiotis E, Alexandrov AW, Mitsias PD, Schellinger PD, Alexandrov AV: Antiplatelet pretreatment and outcomes in intravenous thrombolysis for stroke: A systematic review and meta-analysis. *J Neurol* 2017;264:1227-1235. **IF=3.377**

19. Tsivgoulis G, Katsanos AH, Schellinger PD, Kohrmann M, Varelas P, Magoufis G, Paciaroni M, Caso V, Alexandrov AW, Gurol E, Alexandrov AV: Successful reperfusion with intravenous thrombolysis preceding mechanical thrombectomy in large-vessel occlusions. *Stroke* 2018; 49(1): 232-235. **IF=6.046**

20. Philipps J, Bytyqi A, Salihaj B, Schellinger PD: Sunct like syndrome preceding acute ophthalmic- distribution zoster: A case report and review of the literature. *Clin Neurol Neurosurg* 2018;166:107-109. **IF=1.381**

21. Kuramatsu JB, Sembill JA, Gerner ST, Sprugel MI, Hagen M, Roeder SS, Endres M, Haeusler KG, Sobesky J, Schurig J, Zweynert S, Bauer M, Vajkoczy P, Ringleb PA, Purrucker J, Rizos T, Volkmann J, Mullges W, Kraft P, Schubert AL, Erbguth F, Nueckel M, Schellinger PD, Glahn J, Knappe UJ, Fink GR, Dohmen C, Stetefeld H, Fisse AL, Minnerup J, Hagemann G, Rakers F, Reichmann H, Schneider H, Wopking S, Ludolph AC, Stosser S, Neugebauer H, Rother J, Michels P, Schwarz M, Reimann G, Bazner H, Schwert H, Classen J, Michalski D, Grau A, Palm F, Urbanek C, Wohrle JC, Alshammari F, Horn M, Bahner D, Witte OW, Gunther A, Hamann GF, Lucking H, Dorfler A, Achenbach S, Schwab S, Huttner HB: Management of therapeutic anticoagulation in patients with intracerebral haemorrhage and mechanical heart valves. *European heart journal* 2018; 39: 1709-1723. **IF=23.239**

22. Gerner ST, Kuramatsu JB, Sembill JA, Sprugel MI, Endres M, Haeusler KG, Vajkoczy P, Ringleb PA, Purrucker J, Rizos T, Erbguth F, Schellinger PD, Fink GR, Stetefeld H, Schneider H, Neugebauer H, Rother J, Classen J, Michalski D, Dorfler A, Schwab S, Huttner HB, Investigators RI: Association of prothrombin complex concentrate administration and hematoma enlargement in non-vitamin k antagonist oral anticoagulant-related intracerebral hemorrhage. *Ann Neurol* 2018;83:186-196. **IF=9.890**

23. Alexandrov AW, Tsivgoulis G, Hill MD, Liebeskind DS, Schellinger PD, Ovbiagele B, Arthur AS, Caso V, Nogueira RG, Hemphill JC, 3rd, Grotta JC, Hacke W, Alexandrov AV: Headpost: Rightly positioned, or flat out wrong? *Neurology* 2018; 90: 885-889. **IF=8.320**

24. Katsanos AH, Schellinger PD, Kohrmann M, Filippatou A, Gurol ME, Caso V, Paciaroni M, Perreng F, Alexandrov AV, Tsivgoulis G: Fatal oral anticoagulant-related intracranial hemorrhage: A systematic review and meta-analysis. *Eur J Neurol*. 2018;25:1299-1302. **IF=4.387**

25. Tsivgoulis G, Katsanos A, Schellinger PD, Köhrmann M, Caso V, Palaiodimou L, Magoufis G, Arthur A, Fischer U, Alexandrov AV: Advanced Neuroimaging in Stroke Patient Selection for Mechanical Thrombectomy. A Systematic Review and Meta-Analysis. *Stroke* 2018; 49(12): 3067-3070. **IF=6.046**

26. Schellinger PD, Tsivgoulis G, Steiner T, Kohrmann M. Percutaneous left atrial appendage occlusion for the prevention of stroke in patients with atrial fibrillation: Review and critical appraisal. *Journal of stroke*. 2018;20:281-291. **IF=4.750**

27. Steiner T, Kohrmann M, Schellinger PD, Tsivgoulis G. Non-vitamin k oral anticoagulants associated bleeding and its antidotes. *Journal of stroke*. 2018;20:292-301. **IF=4.750**

28. Schellinger PD, Köhrmann M. Intravenous Thrombolytic Therapy Remains the Basis and Mainstay of Revascularizing Therapy! *Stroke* 2018; 49: 2285-2286. **IF=6.046**

29. Schellinger PD, Demaerschalk BM. Endovascular Stroke Therapy in the Late Time Window. *Stroke* 2018; 49: 2559-2561. **IF=6.046**

30. Köhrmann M, Schellinger PD (contributed equally), Tsivgoulis G, Steiner T. PFO – Story closed ? *Journal of stroke*. 2019;21(1): 23-30. **IF=4.750**

31. Malhotra K, Ahmed N, Filippatou A, Katsanos AH, Goyal N, Tsioufis K, Manios E, Pikilidou M, Schellinger PD, Alexandrov AW, Alexandrov AV, Tsivgoulis G. Association of elevated

blood pressure levels with outcomes in acute ischemic stroke patients treated with intravenous thrombolysis: A systematic review and meta-analysis. *J Stroke*. 2019;21: 78-90. **IF=4.750**

32. Tsivgoulis G, Katsanos AH, Grory BM, Kohrmann M, Ricci BA, Tsioufis K, Cutting S, Krogias C, Schellinger PD, Campello AR, Cuadrado-Godia E, Gladstone DJ, Sanna T, Wachter R, Furie K, Alexandrov AV, Yaghi S. Prolonged cardiac rhythm monitoring and secondary stroke prevention in patients with cryptogenic cerebral ischemia. *Stroke*. 2019;50: 2175-2180. **IF=6.046**

33. Alexandrov AV, Kohrmann M, Soinne L, Tsivgoulis G, Barreto AD, Demchuk AM, Sharma VK, Mikulik R, Muir KW, Brandt G, Alleman J, Grotta JC, Levi CR, Molina CA, Saqqur M, Mavridis D, Psaltopoulou T,Vosko M, Fiebach JB, Mandava P, Kent TA, Alexandrov AW, Schellinger PD for the Clotbust-Er Trial Investigators: Safety and efficacy of sonothrombolysis for acute ischaemic stroke: A multicentre, double-blind, phase 3, randomised controlled trial. *Lancet Neurol*. 2019; 18: 338-347. **IF=28.755**

34. Tsivgoulis G, Katsanos AH, Kohrmann M, Caso V, Lemmens R, Tsioufis K, Paraskevas GP, Bornstein NM, Schellinger PD, Alexandrov AV, Krogias C. Embolic strokes of undetermined source: Theoretical construct or useful clinical tool? *Ther Adv Neurol Disord*. 2019; 12: 1756286419851381. **IF=3.58**

35. Diener HC, Sacco RL, Easton JD, Granger CB, Bernstein RA, Uchiyama S, Kreuzer J, Cronin L, Cotton D, Grauer C, Brueckmann M, Chernyatina M, Donnan M, Ferro JM, Grond M, Kallmunzer B, Krupinski J, Lee BC, Lemmens R, Masjuan J, Odinak M, Saver JL, Schellinger PD, Toni D, Toyoda K for the Re-Spect Esus Steering Committee Investigators. Dabigatran for prevention of stroke after embolic stroke of undetermined source. *N Engl J Med*. 2019;380(20):1906-1917. **IF=70.67**

36. Turc G, Bhogal P, Fischer U, Khatri P, Lobotesis K, Mazighi M, Schellinger PD, Toni D, de Vries J, White P, Fiehler J. European stroke organisation (eso) - european society for minimally invasive neurological therapy (esmint) guidelines on mechanical thrombectomy in acute ischaemic strokeendorsed by stroke alliance for europe (safe). *Eur Stroke J*. 2019;4:6-12. **IF=steht aus**

37. Turc G, Bhogal P, Fischer U, Khatri P, Lobotesis K, Mazighi M, Schellinger PD, Toni D, de Vries J, White P, Fiehler J. European stroke organisation (eso)- european society for minimally invasive neurological therapy (esmint) guidelines on mechanical thrombectomy in acute ischemic stroke. *J Neurointerv Surg*. 2019;11:535-538. **IF=3.925**

38. Gerner ST, Kuramatsu JB, Sembill JA, Sprugel MI, Hagen M, Knappe RU, Endres M, Haeusler KG, Sobesky J, Schurig J, Zweynert S, Bauer M, Vajkoczy P, Ringleb PA, Purrucker JC, Rizos T, Volkmann J, Mullges W, Kraft P, Schubert AL, Erbguth F, Nueckel M, Schellinger PD, Glahn J, Knappe UJ, Fink GR, Dohmen C, Stetefeld H, Fisse AL, Minnerup J, Hagemann G, Rakers F, Reichmann H, Schneider H, Rahmig J, Ludolph AC, Stosser S, Neugebauer H, Rother J, Michels P, Schwarz M, Reimann G, Bazner H, Schwert H, Classen J, Michalski D, Grau A, Palm F, Urbanek C, Wohrle JC, Alshammari F, Horn M, Bahner D, Witte OW, Gunther A, Hamann GF, Engelhorn T, Lucking H, Dorfler A, Schwab S, Huttner HB. Characteristics in non-vitamin k antagonist oral anticoagulant-related

intracerebral hemorrhage. *Stroke*. 2019;50:1392-1402. **IF=6.046**

39. Sprugel MI, Sembill JA, Kuramatsu JB, Gerner ST, Hagen M, Roeder SS, Endres M, Haeusler KG, Sobesky J, Schurig J, Zweynert S, Bauer M, Vajkoczy P, Ringleb PA, Purrucker JC, Rizos T, Volkmann J, Mullges W, Kraft P, Schubert AL, Erbguth F, Nueckel M, Schellinger PD, Glahn J, Knappe UJ, Fink GR, Dohmen C, Stetefeld H, Fisse AL, Minnerup J, Hagemann G, Rakers F, Reichmann H, Schneider H, Wopking S, Ludolph AC, Stosser S, Neugebauer H, Rother J, Michels P, Schwarz M, Reimann G, Bazner H, Schwert H, Classen J, Michalski D, Grau A, Palm F, Urbanek C, Wohrle JC, Alshammari F, Horn M, Bahner D, Witte OW, Gunther A, Hamann GF, Lucking H, Dorfler A, Schwab S, Huttner HB. Heparin for prophylaxis of venous thromboembolism in intracerebral haemorrhage. *J Neurol Neurosurg Psychiatry*. 2019;90:783-791. **IF=8.272**

40. Bornstein NM, Saver JL, Diener HC, Gorelick PB, Shuaib A, Solberg Y, Devlin T, Leung T, Molina CA, ImpAct-24 Investigators (ImpAct-24A Investigators include the Site Principal Investigators, Dsmb members, and the Site Co-Investigators, listed in the appendix). Sphenopalatine ganglion stimulation to augment cerebral blood flow. *Stroke*. 2019; 50(8): 2108-2117. **IF=6.046**

41. Alexandrov AV, Tsivgoulis G, Kohrmann M, Katsanos AH, Soinne L, Barreto AD, Rothlisberger T, Sharma VK, Mikulik R, Muir KW, Levi CR, Molina CA, Saqqur M, Mavridis D, Psaltopoulou T, Vosko M, Fiebach JB, Mandava P, Kent TA, Alexandrov AW, Schellinger PD for the Clotbust-Er Trial Investigators: Endovascular equipoise shift in a phase iii randomized clinical trial of sonothrombolysis for acute ischemic stroke. *Ther Adv Neurol Disord*. 2019; 12:1756286419860652. **IF=3.58**

42. Campbell BCV, Ma H, Ringleb PA, Parsons MW, Churilov L, Bendszus M, Levi CR, Hsu C, Kleinig TJ, Fatar M, Leys D, Molina CA, Wijeratne T, Curtze S, Dewey HM, Barber PA, Butcher KS, De Silva DA, Bladin CF, Yassi N, Pfaff JAR, Sharma G, Bivard A, Desmond PM, Schwab S, Schellinger PD, Yan B, Mitchell PJ, Serena J, Toni D, Thijs V, Hacke W, Davis SM, Donnan GA, Extend, Ecass, Epithet Investigators. Extending thrombolysis to 4.5-9 h and wake-up stroke using perfusion imaging: A systematic review and meta-analysis of individual patient data. *Lancet*. 2019; 394: 39-147. **IF=59.102**

43. Ringleb P, Bendszus M, Bluhmki E, Donnan G, Eschenfelder C, Fatar M, Kessler C, Molina CA, Leys D, Muddegowda G, Poli S, Schellinger PD, Schwab S, Serena J, Toni D, Wahlgren N, Hacke W for the ECASS-study group. Extending the time window for intravenous thrombolysis in acute ischemic stroke using magnetic resonance imaging-based patient selection. *Int J Stroke*. 2019; 14(5): 483-490. **IF=4.466**

44. Katsanos AH, Malhotra K, Goyal N, Arthur A, Schellinger PD, Kohrmann M, Krogias C, Turc G, Magoufis G, Leys D, Ahmed N, Khatri P, Goyal M, Alexandrov AV, Tsivgoulis G. Intravenous thrombolysis prior to mechanical thrombectomy in large vessel occlusions. *Ann Neurol*. 2019; 86: 395-406. **IF=9.496**

45. Tsivgoulis G, Katsanos AH, Schellinger PD, Kohrmann M, Steiner T, Caso V, Palaiodimou L, Strbian D, Ahmed N, Alexandrov AV, Savitz SI. Intravenous thrombolysis in patients with acute ischaemic stroke with history of prior ischaemic stroke within 3 months. *J Neurol Neurosurg Psychiatry*. 2019. Online. **IF=8.272**

Peter D. Schellinger, MD, PhD, FESO, FAHA
Professor and Chairman

Minden, September 5th 2019