

## Curriculum vitae

Maria Giulia Abate, MD, PhD

26-03-1977

[m.abate1@campus.unimib.it](mailto:m.abate1@campus.unimib.it)

00.39.328.70.68.094

Researcher unique identifier: <https://orcid.org/0000-0002-5207-4058>

## Current position

2008 - Staff Physician, Department of Emergency Medicine in the Neurocritical Care Unit, San Gerardo Hospital, ASST- Monza Italy

## Education

2017 PhD University of Milan Bicocca, Department of Translational and molecular medicine - DIMET

Project title: TGF beta expression in plasma and cerebral spinal fluid following aneurismal subarachnoid haemorrhage (aSAH): temporal profile during early and delayed ischemic injury.

2008 Specialization in Anaesthesia and Critical care Faculty of Medicine/University of Milan Bicocca, Monza Italy

2008 University of California - UCLA Los Angeles CA - USA, 2 months visiting physician in the Neurocritical Care Unit

2007-2008 University of Cambridge, UK Department of Anaesthesia Addenbrooke's Hospital, 18 months Research Fellowship - Neurocritical Care Unit

2004 Medical degree, Faculty of Medicine/University of Pavia Italy (full marks *magna cum laude*).

2002-2003 "Socrates Erasmus" at the "Johannes Gutenberg Universität", Mainz, Germany

## Educational courses and award

2014 Training course in Transcranial Doppler in Critical care, Presidio Ospedaliero A. Manzoni Lecco

2012 "Advanced life support executor" ALS e "Paediatric life support executor support executor" PALS certifications

2007 Siena- Italy, Neuroscience award, Abstract: "Early derangements in oxygen and glucose metabolism following head injury: Evidence for the ischaemic penumbra".

2006 Educational courses SMART Milano: "Update on TBI and SAH"- Relator.

2006 EAPCCT (European Association of Poison centres and Clinical Toxicologists), certification: "Training in Toxic Emergency", Hospital Ca' Granda Niguarda, Milan- Italy

### **Commissions of trust**

Reviewer of the Neurocritical Care Journal

### **Publications**

#### Original articles

1. Dynamic Changes in White Matter Abnormalities Correlate With Late Improvement and Deterioration Following TBI: A Diffusion Tensor Imaging Study. Newcombe VF, Correia MM, Ledig C, Abate MG, Outtrim JG, Chatfield D, Geeraerts T, Manktelow AE, Garyfallidis E, Pickard JD, Sahakian BJ, Hutchinson PJ, Rueckert D, Coles JP, Williams GB, Menon DK. *Neurorehabil Neural Repair*. 2016 Jan;30(1):49-62.
2. Microstructural basis of contusion expansion in traumatic brain injury: insights from diffusion tensor imaging. Newcombe VF, Williams GB, Outtrim JG, Chatfield D, Abate MG, Geeraerts T, Manktelow A, Room H, Mariappen L, Hutchinson PJ, Coles JP, Menon DK. *J Cereb Blood Flow Metab*. 2013 Jun;33(6):855-62.
3. Villa F., Iacca C., Forasterieri A., Abate G., Pesenti A., Citerio G. Isoflurane increases regional cerebral blood flow (rCBF) in comparison to propofol in SAH Patients. *Neurocritical Care* (2011) 15: S47
4. Consonni F, Abate MG, Galli D, Citerio G. Feasibility of a Continuous Computerized Monitoring of Cerebral Autoregulation in Neurointensive Care. *Neurocrit Care*. 2009;10(2):232-40.
5. Sala F, Abbruzzese C, Galli D, Grimaldi M, Abate MG, Sganzerla EP, Citerio G. Intracranial pressure monitoring in pediatric bacterial meningitis: a fancy or useful tool? A case report. *Minerva Anestesiol*. 2009 Dec; 75(12):746-9.
6. Geeraerts T, Newcombe VF, Coles JP, Abate MG, Perkes IE, Hutchinson PJ, Outtrim JG, Chatfield DA, Menon DK. Use of T2-weighted magnetic resonance imaging of the optic nerve sheath to detect raised intracranial pressure. *Crit Care*. 2008 Sep 11; 12(5):R114.
7. Abate MG, Trivedi M, Fryer TD, Smielewski P, Chatfield DA, Williams GB, Aigbirhio F, Carpenter TA, Pickard JD, Menon DK, Coles JP. Early Derangements in Oxygen and Glucose Metabolism Following Head Injury: The Ischemic Penumbra and Pathophysiological Heterogeneity. *Neurocrit Care*. 2008 Jun 19.
8. Abate MG, Cadore B, Citerio G. Hypothermia in adult neurocritical patients: a very "hot" strategy not to be hibernated yet! *Minerva Anestesiol*. 2008 Jul-Aug; 74(7-8):425-30.

#### Book Chapters

1. M.G. ABATE, G. CITERIO SUBARACHNOID HEMORRAGE: CRITICAL CARE MANAGEMENT. IN ANNUAL UPDATE IN INTENSIVE CARE AND EMERGENCY MEDICINE 2013, EDITED BY JL VINCENT, SPRINGER 2013, PAG 765-779
2. M.G. ABATE, G. CITERIO PRESSIONE INTRACRANICA VOL 1. PAG 244-254. MEDICINA CRITICA CURATO DA: ROMANO EZIO EDITORE: UTET DIV. SCIENZE MEDICHE. NOVEMBRE 2010 ISBN: 880208338X
3. M.G. ABATE, G. CITERIO ICTUS ISCHEMICO VOL 2. PAG 1153-1160. MEDICINA CRITICA CURATO DA: ROMANO EZIO EDITORE: UTET DIV. SCIENZE MEDICHE. NOVEMBRE 2010 ISBN: 880208338X
4. M.G. ABATE, G. CITERIO SPECIAL ADMISSION PATH: TRAUMATIC BRAIN INJURY IN "ORGANIZATION AND MANAGEMENT IN INTENSIVE CARE" (EDITED BY H.FLATTEN, R. MORENO, C.PUTENSEN, A. RHODES). SPRINGER VERLAG 2010. Pp. 79-86.
5. M.G. ABATE, G. CITERIO WHAT CARE SHOULD BE PROVIDED FOR POOR GRADE SUBARACHNOID HAEMORRHAGE PATIENTS? IN "CONTROVERSIES IN INTENSIVE CARE MEDICIN" (EDITED BY R. KUHLLEN, R. MORENO, M. RANIERI, A. RHODES). SPRINGER VERLAG 2008. Pag 239-246.
6. M.G. ABATE, F. SALA, G. CITERIO. HEAD INIURY TREATMENT IN 2007. IN PROCEEDING OF THE 22ND POSTGRADUATE COURSE IN CRITICAL CARE MEDICINE. ANESTHESIA, PAIN, INTENSIVE CARE AND EMERGENCY - A.P.I.C.E., CHAPTER 10, 95-110.SPRINGER VERLAG ITALIA 2007.

#### Abstracts

1. S.M. Colombo, A. Vargiolu, M.G. Abate, P.C. Volpi, E.M.A. Mantovani, L. Beretta, N. Stocchetti, G. Citerio. Effects of magnitude and duration of secondary insults on outcome in traumatic brain injured patient. 27° Smart Meeting Milano 25-27 Maggio, 2016.
2. A. Grassi, A. Vargiolu, M.G. Abate, A. Patruno, C. Talei Franzesi, M. Rota, G. Citerio. An effective and safe strategy to target normothermia in neurocritical patients. 27° SMART Meeting Milano 25-27 Maggio, 2016.
3. S.M. Colombo, A. Vargiolu, M.G. Abate, P.C. Volpi, E.M.A. Mantovani, L. Beretta, N. Stocchetti, G. Citerio. The value of early Glasgow Coma Scale and pupils changes on outcome in traumatic brain injured patients. 27° SMART meeting Milano 25-27 Maggio, 2016.
4. Casadio Mc, Abate G, Colombo E, Savo D, Zanotto E, Pradella A, Confalonieri A, Cavenaghi G, Citerio G. Useless of chest radiography after percutaneous tracheostomy in neurological ICU. 25° SMART Meeting Milano 28-30 Maggio, 2014
5. Abate Mg, Volpi P, Saini M, Savo D, Subert M, Pradella A, Confalonieri A, Remida P, Citerio G. The Vanishing Effect Of Intra-arterial Nimodipine In Vasospasm Treatment. Is It Really Worth Doing? 25° Smart Meeting Milano 28-30 Maggio, 2014
6. Vargiolu A, Del Bianco S, Abate Mg, Pagan De Paganis C, Confalonieri A, Lanfranco P, Citerio Donazione Di Organi E Tessuti. Semplici Cambiamenti Portano A Risultati. 25° Smart Meeting Milano 28-30 Maggio, 2014
7. Pradella A, Abate Mg, Casadio Cm, Vargiolu A, Confalonieri A, Patruno A, Citerio G. Hyponatremia In Neurosurgical Critical Intensive Care Unit: Is It Still Part Of The Problem? 25° Smart Meeting Milano 28-30 Maggio, 2014

8. P. Volpi, M.G. Abate, F. Sala, E. Colombo, M. Saini, D. Savo, P. Gilardi, A. Biondi, G. Citerio . Mortality of paediatric patients with primary neurological disorders and haematological malignancies with neurological complications admitted to a neurosurgical ICU (NICU) . ESICM lives 2014
9. M.G. Abate, A. Grassi, A. Patrino, A. Vargiolu, F. Sala, E. Zanotto, M. Panzeri, B. Cadore, G. Citerio. An effective and safe strategy to target normothermia in neurocritical patients with fever . ESICM lives 2014.
10. M.G. Abate, A. Vargiolu, A. Patrino, M. Fontana, F.A. Villa, D. Bonacina, G. Citerio et al. Neurocrit Care 2007; 6:82-89.5.: 1027 - Is fever still a burden in Neurointensive Care Unit (NICU)? ESICM lives 2012 25th Annual Congress, ccl, Lisbon – Portugal, 13 – 17 October 2012. Intensive care medicine, 38(s1), 1–327.
11. M. Fontana, MG. Abate, F. Villa, F. Sala, G. Citerio. Impatto della diagnostica radiologica sulle scelte terapeutiche in terapia intensiva neurochirurgica (TINCH) ed effetti del trasporto. Milano, SMART 2012.
12. F. Villa, A. Coppadoro, C. Iacca, M.G. Abate, A. Pesenti, G. Citerio. Inhalational sedation with isoflurane in subarachnoid hemorrhage (SAH) patients: preliminary data on its effects on regional cerebral blood flow (rCBF) ESICM Barcellona 2010.
13. Villa F., Iacca C., Forasterieri A., Abate G., Pesenti A., Citerio G. Isoflurane increases regional cerebral blood flow (rCBF) in comparison to propofol in SAH patients. Neurocritical care (2011) 15: s47.
14. F. Villa, a. Coppadoro, C. Iacca, MG. Abate, A. Pesenti, G. Citerio. Inhalational sedation with isoflurane in subarachnoid hemorrhage (SAH) patients: preliminary data on its effects on regional cerebral blood flow (rCBF). 23rd ESICM annual congress – Barcelona, Spain – 9–13 October 2010. 0383, s181.
15. Villa F, Galluzzi P, Coppadoro A, Abate MG, Bellani G, Citerio G. Regional blood flow and autoregulation status in Neuro-ICU patients. European journal of anaesthesiology 2010, vol 27 suppl 48, page s24 (a64).
16. Francesca Sala, Barbara Cadore, Federico Villa, Maria Giulia Abate, Adriana Patrino, Giuseppe Citerio. Anesthesiological strategies in elective craniotomy: the Neuro-Morfeo trial. 37th annual meeting of the Society of Neurosurgical Anesthesia and Critical Care, New Orleans, Louisiana, October 16th, 2009. J Neurosurg Anesthesiol volume 21, number 4, October 2009. P.415-416.
17. MG Abate, S Pesenti, M Grimaldi, S Villa, E Sganzerla, G Citerio. Cerebral blood flow (CBF) derangements in aneurismal subarachnoid hemorrhage (aSAH): perfusion CT (PCT) utility. Abstract from the 22° ESICM annual congress – Vienna 11-14.11.09. Intensive Care Medicine, vol 35, suppl 1, September 09. Op 411.
18. MG Abate ; D Chatfield ; J Outtrim 1 ; G Gee ; T Fryer ; F Aigbirhio ; D Menon ; J Coles Changes in cerebral physiology following Cranioplasty: a 15Oxygen PET study Poster presentation, ISCEM Bruxelles 2008
19. MG Abate, VFJ Newcombe, DA Chatfield, JG Outtrim, SG Harding, JP Coles, P Hutchinson, TD Fryer, AT Carpenter, DK Menon, Cambridge, United Kingdom. Metabolic characterization of cerebral contusions following head injury identification of a transitional penumbral zone. ESICM 2008.
20. M.G. Abate E. Rondelli R. Fumagalli “Survival Sepsis Campaign” tre anni dopo. I principi sono sempre validi?. Minerva Anestesiologica 2006; 72 (Suppl. 1 al 10): 363-6.
21. E. Rondelli, M.G. Abate, R. Fumagalli Steroidi: a volte promossi altre volte bocciati nella sepsi. Minerva Anestesiologica 2006; 72 (Suppl. 1 al 10): 326-9.
22. A. Braschi, M.G. Abate et al. “Boron neutron capture therapy (BNCT)”, su fegato neoplastico isolato: problematiche Anestesiologiche e Rianimatorie. Minerva Anestesiologica; vol 70 supplemento 2, N9, sett 2004: pp. 388-389. Genova, SIAARTI 27-30 Ottobre 2004.

### **Participation to clinical studies**

2015-2016 “Electrical Pharyngeal Stimulation for Dysphagia Therapy in Tracheostomized Stroke Patients”  
<https://clinicaltrials.gov/ct2/show/NCT01956175>

2014 Principal investigator TGF beta expression in plasma and cerebral spinal fluid following aneurismal subarachnoid haemorrhage (aSAH): temporal profile during early and delayed ischemic injury. Monza, Italy, Neurosurgical Critical Care Unit

2013 Collaboration with the co-partner CENTRE TBI WP 18-19. [www.center-tbi.eu](http://www.center-tbi.eu)

2009 Co- investigator San Gerardo “Inhalatorial Sedation in Patient with Subarachnoid Haemorrhage (SAH) Versus Conventional Intravenous Sedation (GAS-SAH)”.

<http://clinicaltrials.gov/ct2/show/NCT00830843?term=citerio&rank=2>

2008 Collaboration with the principal investigator at the Neurocritical Care Unit (NCCU) Cambridge UK- Addensbrook Hospital- “Pathophysiological changes in perilesional tissue post traumatic brain injury: definition with diffusion tensor imaging” .

Monza, 23-02-2018