

CURRICULUM VITAE

Domenico Tortora, MD, PhD

PRESENT POSITION

October 2017 – present day: Pediatric Neuroradiology consultant, clinical position at Neuroradiology Unit of Gaslini Children Hospital, Genoa, Italy.

PREVIOUS POSITION

August 2015 - September 2017: Medical Research position on “Implementation of advanced imaging techniques with high-field MRI: functional-MRI, diffusion tensor imaging, spectroscopy and perfusion” at Neuroradiology Unit of Gaslini Children Hospital, Genoa, Italy.

EDUCATION

November 2015-November2018: PhD Student of University of Genoa, Research project: “Role of advanced MRI sequences in predicting the outcome of preterm neonates” Tutor: Andrea Rossi, MD, fifth final Excellent evaluation

May 2010– May 2015: Radiology Residency, University of Chieti, 28/05/2015, finals 70/70 magna cum laude and a thesis on “Neonatal brain perfusion at 3T MRI by using Arterial spin labelling”

January – July 2014: Out-of-program Registrar at the Neuroradiology Unit of Gaslini Children Hospital, Genoa, Italy, under direct supervision of Dr Andrea Rossi.

February 2010: Italian Medical Board Qualifying Exam with top marks (250/250)

October 2009: Medical Degree at the University of Chieti with top marks (110/110) cum laude with a thesis on “Role of advanced MR techniques in characterization and follow up of brain tumors”.

January 2009 – October 2009: Neuroradiology Internship (Prof. Massimo Caulo) at the ITAB, University of Chieti, Italy.

July 2003: Scientific Degree at the “G.Galilei” Scientific High School (Lanciano, CH) with top marks (100/100).

LANGUAGE SKILLS

English (fluent), Italian (native)

COMPUTER SKILLS

Good knowledge of the following softwares:

Brainvoyager , TrackVis, DTI studio, MRTrix, MIPAV, TORTOISE, SLICER, FSL, FreeSurfer, CONN, REST, Matlab, SPM 5, 8 and 12, ASLtbx, Philips Viewforum, Osirix SPSS 21, MedCalc.

PUBLICATIONS

- **110 peer-reviewed articles on Pubmed**
- **6 books chapters**

Articles

Spitzer H, Ripart M, Whitaker K, D'Arco F, Mankad K, Chen AA, Napolitano A, De Palma L, De Benedictis A, Foldes S, Humphreys Z, Zhang K, Hu W, Mo J, Likeman M, Davies S, Güttler C, Lenge M, Cohen NT, Tang Y, Wang S, Chari A, Tisdall M, Bargallo N, Conde-Blanco E, Pariente JC, Pascual-Diaz S, Delgado-Martínez I, Pérez-Enríquez C, Lagorio I, Abela E, Mullatti N, O'Muircheartaigh J, Vecchiato K, Liu Y, Caligiuri ME, Sinclair B, Vivash L, Willard A, Kandasamy J, McLellan A, Sokol D, Semmelroch M, Kloster AG, Opheim G, Ribeiro L, Yasuda C, Rossi-Espagnet C, Hamandi K, Tietze A, Barba C, Guerrini R, Gaillard WD, You X, Wang I, González-Ortiz S, Severino M, Striano P, **Tortora D**, Kälviäinen R, Gambardella A, Labate A, Desmond P, Lui E, O'Brien T, Shetty J, Jackson G, Duncan JS, Winston GP, Pinborg LH, Cendes F, Theis FJ, Shinohara RT, Cross JH, Baldeweg T, Adler S, Wagstyl K. Interpretable surface-based detection of focal cortical dysplasias: a Multi-centre Epilepsy Lesion Detection study. *Brain*. 2022 Aug 12;awac224. doi: 10.1093/brain/awac224. Epub ahead of print. PMID: 35953082.

Larivière S, Royer J, Rodríguez-Cruces R, Paquola C, Caligiuri ME,

Gambardella A, Concha L, Keller SS, Cendes F, Yasuda CL, Bonilha L, Gleichgerrcht E, Focke NK, Domin M, von Podewills F, Langner S, Rummel C, Wiest R, Martin P, Kotikalapudi R, O'Brien TJ, Sinclair B, Vivash L, Desmond PM, Lui E, Vaudano AE, Meletti S, Tondelli M, Alhusaini S, Doherty CP, Cavalleri GL, Delanty N, Kälviäinen R, Jackson GD, Kowalczyk M, Mascacchi M, Semmelroch M, Thomas RH, Soltanian-Zadeh H, Davoodi-Bojd E, Zhang J, Winston GP, Griffin A, Singh A, Tiwari VK, Kreilkamp BAK, Lenge M, Guerrini R, Hamandi K, Foley S, Rüber T, Weber B, Depondt C, Absil J, Carr SJA, Abela E, Richardson MP, Devinsky O, Severino M, Striano P, **Tortora D**, Kaestner E, Hatton SN, Vos SB, Caciagli L, Duncan JS, Whelan CD, Thompson PM, Sisodiya SM, Bernasconi A, Labate A, McDonald

CR, Bernasconi N, Bernhardt BC. Structural network alterations in focal and generalized epilepsy assessed in a worldwide ENIGMA study follow axes of epilepsy risk gene expression. *Nat Commun.* 2022 Jul 27;13(1):4320. doi: 10.1038/s41467-022-31730-5. PMID: 35896547; PMCID: PMC9329287.

Borgia P, Baldassari S, Pedemonte N, Alkhunaizi E, D'Onofrio G, **Tortora D**, Cali E, Scudieri P, Balagura G, Musante I, Diana MC, Pedemonte M, Vari MS, Iacomino M, Riva A, Chimenz R, Mangano GD, Mohammadi MH, Toosi MB, Ashrafzadeh

F, Imannezhad S, Karimiani EG, Accogli A, Schiaffino MC, Maghnie M, Soler MA, Echiverri K, Abrams CK, Striano P, Fortuna S, Maroofian R, Houlden H, Zara F, Fiorillo C, Salpietro V. Genotype-phenotype correlations and disease mechanisms in PEX13-related Zellweger spectrum disorders. *Orphanet J Rare Dis.* 2022 Jul 19;17(1):286. doi: 10.1186/s13023-022-02415-5. PMID: 35854306; PMCID: PMC9295491.

Fiaschi P, Bue EL, Ceraudo M, Secci F, **Tortora D**, Piatelli G, Severino M, Gandolfo C, Vercellino N, Pavanello M. Peculiar bony involvement of sinus pericranii in children: Extensive diploic erosion in three "karstic" variants. *Clin Neurol Neurosurg.* 2022 Aug;219:107334. doi: 10.1016/j.clineuro.2022.107334. Epub 2022 Jun 9. PMID: 35738119.

Cohen NT, You X, Krishnamurthy M, Sepeta LN, Zhang A, Oluigbo C, Whitehead MT, Gholipour T, Baldeweg T, Wagstyl K, Adler S, Gaillard WD; Multi-Centre Epilepsy Lesion Detection (MELD) Project. Networks Underlie Temporal Onset of Dysplasia-Related Epilepsy: A MELD Study. *Ann Neurol.* 2022 Sep;92(3):503-511. doi: 10.1002/ana.26442. Epub 2022 Jul 8. PMID: 35726354.

Severino M, **Tortora D**, Reid C, Uccella S, Nobili L, Accogli A, Srour M, Ramaglia A, Sudhakar S, Consales A, Pavanello M, Piatelli G, James G, Ravegnani

M, Rossi A, Mankad K. Imaging characteristics and neurosurgical outcome in subjects with agenesis of the corpus callosum and interhemispheric cysts. *Neuroradiology*. 2022 Jun 7. doi: 10.1007/s00234-022-02990-1. Epub ahead of print. PMID: 35670822.

Riva A, Nobile G, Giacomini T, Ognibene M, Scala M, Balagura G, Madia F, Accogli A, Romano F, **Tortora D**, Severino M, Scudieri P, Baldassari S, Musante I, Uva P, Salpietro V, Torella A, Nigro V, Capra V, Nobili L, Striano P, Mancardi MM, Zara F, Iacomino M. A Phenotypic-Driven Approach for the Diagnosis of WOREE Syndrome. *Front Pediatr*. 2022 Apr 29;10:847549. doi: 10.3389/fped.2022.847549. PMID: 35573960; PMCID: PMC9100683.

Rebella G, Milanaccio C, Morana G, **Tortora D**, Verrico A, Piatelli G, Gaggero G, Nozza P, Garrè ML, Rossi A, Severino M. Calcifications in diffuse leptomeningeal glioneuronal tumors: a case series. *Quant Imaging Med Surg*. 2022 May;12(5):2985-2994. doi: 10.21037/qims-21-741. PMID: 35502376; PMCID: PMC9014155.

Giacomini T, Scala M, Nobile G, Severino M, **Tortora D**, Nobili L, Accogli A, Torella A, Capra V, Mancardi MM, Nigro V; TUDP study group. De novo POLR2A p.(Ile457Thr) variant associated with early-onset encephalopathy and cerebellar atrophy: expanding the phenotypic spectrum. *Brain Dev*. 2022 Aug;44(7):480-485. doi: 10.1016/j.braindev.2022.04.002. Epub 2022 Apr 20. PMID: 35461703.

D'Arco F, Mertiri L, de Graaf P, De Foer B, Popovič KS, Argyropoulou MI, Mankad K, Brisse HJ, Juliano A, Severino M, Van Cauter S, Ho ML, Robson CD, Siddiqui A, Connor S, Bisdas S; Consensus for Magnetic Resonance Protocols Study (COMPS) Group. Guidelines for magnetic resonance imaging in pediatric head and neck pathologies: a multicentre international consensus paper. *Neuroradiology*. 2022 Jun;64(6):1081-1100. doi: 10.1007/s00234-022-02950-9. Epub 2022 Apr 23. Erratum in: *Neuroradiology*. 2022 Apr 30;: PMID: 35460348.

Tortora D, Cataldi M, Severino M, Consales A, Pacetti M, Parodi C, Sertorio F, Ramaglia A, Cognolato E, Nobile G, Mancardi M, Prato G, Siri L, Giacomini T, Striano P, Arnaldi D, Piatelli G, Rossi A, Nobili L. Comparison of Qualitative and Quantitative Analyses of MR-Arterial Spin Labeling Perfusion Data for the Assessment of Pediatric Patients with Focal Epilepsies. *Diagnostics (Basel)*. 2022 Mar 25;12(4):811. doi: 10.3390/diagnostics12040811. PMID: 35453858; PMCID: PMC9032819.

Geraldo AF, Luis A, Alves CAPF, **Tortora D**, Guimarães J, Reimão S, Pavanello

M, de Marco P, Scala M, Capra V, Rossi A, Schwartz ES, Mankad K, Severino M. Spinal involvement in pediatric familial cavernous malformation syndrome. *Neuroradiology*. 2022 Aug;64(8):1671-1679. doi: 10.1007/s00234-022-02958-1. Epub 2022 Apr 22. PMID: 35451625.

Park BY, Larivière S, Rodríguez-Cruces R, Royer J, Tavakol S, Wang Y, Caciagli L, Caligiuri ME, Gambardella A, Concha L, Keller SS, Cendes F, Alvim MKM, Yasuda C, Bonilha L, Gleichgerrcht E, Focke NK, Kreilkamp BAK, Domin M, von

Podewils F, Langner S, Rummel C, Rebsamen M, Wiest R, Martin P, Kotikalapudi R, Bender B, O'Brien TJ, Law M, Sinclair B, Vivash L, Kwan P, Desmond PM, Malpas CB, Lui E, Alhusaini S, Doherty CP, Cavalleri GL, Delanty N, Kälviäinen R, Jackson GD, Kowalczyk M, Mascalchi M, Semmelroch M, Thomas RH, Soltanian-Zadeh

H, Davoodi-Bojd E, Zhang J, Lenge M, Guerrini R, Bartolini E, Hamandi K, Foley S, Weber B, Depondt C, Absil J, Carr SJA, Abela E, Richardson MP, Devinsky O, Severino M, Striano P, Parodi C, **Tortora D**, Hatton SN, Vos SB, Duncan JS, Galovic M, Whelan CD, Bargalló N, Pariente J, Conde-Blanco E, Vaudano AE, Tondelli M, Meletti S, Kong XZ, Francks C, Fisher SE, Caldairou B, Rytén M, Labate A, Sisodiya SM, Thompson PM, McDonald CR, Bernasconi A, Bernasconi N, Bernhardt BC. Topographic divergence of atypical cortical asymmetry and atrophy patterns in temporal lobe epilepsy. *Brain*. 2022 May 24;145(4):1285-1298. doi: 10.1093/brain/awab417. PMID: 35333312; PMCID: PMC9128824.

Brisca G, Pirlo D, Prato G, **Tortora D**, Siri L, Nobili L, Tardini G, Consales A, Moscatelli A, Buratti S. Efficacy of Ketamine Use in Refractory Status Epilepticus Associated With Hemimegalencephaly. *Pediatr Emerg Care*. 2022 Mar 1;38(3):e1090-e1091. doi: 10.1097/PEC.0000000000002654. PMID: 35226636.

Accogli A, Geraldo AF, Piccolo G, Riva A, Scala M, Balagura G, Salpietro V, Madia F, Maghnie M, Zara F, Striano P, **Tortora D**, Severino M, Capra V. Diagnostic Approach to Macrocephaly in Children. *Front Pediatr*. 2022 Jan 14;9:794069. doi: 10.3389/fped.2021.794069. PMID: 35096710; PMCID: PMC8795981.

Colella M, Panfoli I, Doglio M, Cassanello M, Bruschi M, Angelis LC, Candiano G, Parodi A, Malova M, Petretto A, Morana G, **Tortora D**, Severino M, Maghnie M, Buonocore G, Rossi A, Baud O, Ramenghi LA. Adenosine Blood Level: A Biomarker of White Matter Damage in Very Low Birth Weight Infants. *Curr Pediatr Rev*. 2022;18(2):153-163. doi: 10.2174/1573396318666220127155943. PMID: 35086453.

Wagstyl K, Whitaker K, Raznahan A, Seidlitz J, Vértes PE, Foldes S, Humphreys Z, Hu W, Mo J, Likeman M, Davies S, Lenge M, Cohen NT, Tang Y, Wang S, Ripart M, Chari A, Tisdall M, Bargallo N, Conde-Blanco E, Pariente JC, Pascual-Diaz S, Delgado-Martínez I, Pérez-Enríquez C, Lagorio I, Abela E, Mullatti N, O'Muircheartaigh J, Vecchiato K, Liu Y, Caligiuri M, Sinclair B, Vivash L, Willard A, Kandasamy J, McLellan A, Sokol D, Semmelroch M, Kloster A, Opheim G, Yasuda C, Zhang K, Hamandi K, Barba C, Guerrini R, Gaillard WD, You X, Wang I, González-Ortiz S, Severino M, Striano P, **Tortora D**, Kalviainen R, Gambardella A, Labate A, Desmond P, Lui E, O'Brien T, Shetty J, Jackson G, Duncan JS, Winston GP, Pinborg L, Cendes F, Cross JH, Baldeweg T, Adler S. Atlas of lesion locations and postsurgical seizure freedom in focal cortical dysplasia: A MELD study. *Epilepsia*. 2022 Jan;63(1):61-74. doi: 10.1111/epi.17130. Epub 2021 Nov 29. Erratum in: *Epilepsia*. 2022 Apr;63(4):1018. PMID: 34845719; PMCID: PMC8916105.

Zanardo V, **Tortora D**, Sandri A, Severino L, Mesirca P, Straface G. COVID-19 pandemic: Impact on gestational diabetes mellitus prevalence. *Diabetes Res Clin Pract*. 2022 Jan;183:109149. doi: 10.1016/j.diabres.2021.109149. Epub 2021 Nov 19. PMID: 34808282; PMCID: PMC8665826.

Consales A, Cognolato E, Pacetti M, Mancardi MM, **Tortora D**, Di Perna G, Piatelli G, Nobili L. Magnetic Resonance-Guided Laser Interstitial Thermal Therapy (MR-gLiTT) in Pediatric Epilepsy Surgery: State of the Art and Presentation of Giannina Gaslini Children's Hospital (Genoa, Italy) Series. *Front Neurol*. 2021 Oct 26;12:739034. doi: 10.3389/fneur.2021.739034. PMID: 34764929; PMCID: PMC8577648.

DI Perna G, Pacetti M, **Tortora D**, Nobili L, Cama A, Piatelli G, Consales A. Non-robotized frameless stereotactic magnetic resonance guided laser interstitial thermal therapy for hypothalamic hamartoma: preliminary results of 2 cases and review of the literature. *J Neurosurg Sci*. 2021 Oct 14. doi: 10.23736/S0390-5616.21.05442-4. Epub ahead of print. PMID: 34647712.

Accogli A, Goergen S, Izzo G, Mankad K, Kraiden Haratz K, Parazzini C, Fahey M, Menzies L, Baptista J, Carpineta L, **Tortora D**, Fulcheri E, Gaetano Vellone V, Paladini D, Spaccini L, Toto V, Trayers C, Ben Sira L, Reches A, Malinger G, Salpietro V, De Marco P, Srour M, Zara F, Capra V, Rossi A, Severino M. L1CAM variants cause two distinct imaging phenotypes on fetal MRI. *Ann Clin Transl Neurol*. 2021 Oct;8(10):2004-2012. doi: 10.1002/acn3.51448. Epub 2021 Sep 12.

PMID: 34510796; PMCID: PMC8528460.

De Angelis LC, Parodi A, Sebastiani M, Consales A, Ravegnani GM, Severino M, **Tortora D**, Rossi A, Malova M, Minghetti D, Cama A, Piatelli G, Ramenghi LA. External ventricular drainage for posthemorrhagic ventricular dilatation in preterm infants: insights on efficacy and failure. *J Neurosurg Pediatr.* 2021 Sep 3;28(5):563-571. doi: 10.3171/2021.5.PEDS20928. PMID: 34479205.

Altmann A, Ryten M, Di Nunzio M, Ravizza T, Tolomeo D, Reynolds RH, Somani A, Bacigaluppi M, Iori V, Micotti E, Di Sapia R, Cerovic M, Palma E, Ruffolo G, Botía JA, Absil J, Alhusaini S, Alvim MKM, Auvinen P, Bargallo N, Bartolini E, Bender B, Bergo FPG, Bernardes T, Bernasconi A, Bernasconi N, Bernhardt BC, Blackmon K, Braga B, Caligiuri ME, Calvo A, Carlson C, Carr SJA, Cavalleri GL, Cendes F, Chen J, Chen S, Cherubini A, Concha L, David P, Delanty N, Depondt C, Devinsky O, Doherty CP, Domin M, Focke NK, Foley S, Franca W, Gambardella A, Guerrini R, Hamandi K, Hibar DP, Isaev D, Jackson GD, Jahanshad N, Kälviäinen R, Keller SS, Kochunov P, Kotikalapudi R, Kowalczyk MA, Kuzniecky R, Kwan P, Labate A, Langner S, Lenge M, Liu M, Martin P, Mascalchi M, Meletti S, Morita-Sherman ME, O'Brien TJ, Pariente JC, Richardson MP, Rodriguez-Cruces R, Rummel C, Saavalainen T, Semmelroch MK, Severino M, Striano P, Thesen T, Thomas RH, Tondelli M, **Tortora D**, Vaudano AE, Vivash L, von Podewils F, Wagner J, Weber B, Wiest R, Yasuda CL, Zhang G, Zhang J; ENIGMA-Epilepsy Working Group, Leu C, Avbersek A; EpiPGX Consortium, Thom M, Whelan CD, Thompson P, McDonald CR, Vezzani A, Sisodiya SM. A systems-level analysis highlights microglial activation as a modifying factor in common epilepsies. *Neuropathol Appl Neurobiol.* 2022 Feb;48(1):e12758. doi: 10.1111/nan.12758. Epub 2021 Sep 5. PMID: 34388852; PMCID: PMC8983060.

Iodice A, Signa S, Severino M, **Tortora D**, Zanetti A, Amico G, Piatelli G, Bertamino M, Pavanello M. Combined medical therapy and neurosurgical revascularization preventing stroke in post-varicella angiopathy: Case report and review of literature. *Brain Dev.* 2021 Nov;43(10):1051-1056. doi: 10.1016/j.braindev.2021.07.005. Epub 2021 Jul 29. PMID: 34332825.

Piccolo G, d'Annunzio G, Amadori E, Riva A, Borgia P, **Tortora D**, Maghnie M, Minetti C, Gitto E, Iacomino M, Baldassari S, Fiorillo C, Zara F, Striano P, Salpietro V. Neuromuscular and Neuroendocrinological Features Associated With *ZC4H2*-Related Arthrogyroplasia Multiplex Congenita in a Sicilian Family: A Case Report. *Front Neurol.* 2021 Jul 12;12:704747. doi: 10.3389/fneur.2021.704747. PMID: 34322088; PMCID: PMC8313121.

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Perri K, De Mori L, **Tortora D**, Calevo MG, Allegri AEM, Napoli F, Patti G, Fava D, Crocco M, Schiavone M, Casalini E, Severino M, Rossi A, Di Iorgi N, Gastaldi R, Maghnie M. Cognitive and White Matter Microstructure Development in Congenital Hypothyroidism and Familial Thyroid Disorders. *J Clin Endocrinol Metab.* 2021 Sep 27;106(10):e3990-e4006. doi: 10.1210/clinem/dgab412. PMID: 34105732.

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Geraldo AF, Caorsi R, **Tortora D**, Gandolfo C, Ammendola R, Alessio M, Conti G, Insalaco A, Pastore S, Martino S, Ceccherini I, Signa S, Gattorno M, Rossi A, Severino M. Widening the Neuroimaging Features of Adenosine Deaminase 2 Deficiency. *AJNR Am J Neuroradiol.* 2021 May;42(5):975-979. doi: 10.3174/ajnr.A7019. Epub 2021 Feb 25. PMID: 33632736; PMCID: PMC8115359.

Zanardo V, **Tortora D**, Guerrini P, Garani G, Severino L, Soldera G, Straface G. Infant feeding initiation practices in the context of COVID-19 lockdown. *Early Hum Dev.* 2021 Jan;152:105286. doi: 10.1016/j.earlhumdev.2020.105286. Epub 2020 Nov 26. PMID: 33276222; PMCID: PMC7690304.

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Bertamino M, **Tortora D**, Molinari AC, Fiaschi P, Pavanello M. Letter to the Editor Regarding "Large Craniotomy Increases the Risk of Minor Perioperative Complications in Revascularization Surgery for Moyamoya Disease". *World Neurosurg.* 2020 Nov;143:581-583. doi: 10.1016/j.wneu.2020.07.024. PMID: 33167120.

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