

**FORMATO EUROPEO
PER IL CURRICULUM
VITAE**



INFORMAZIONI PERSONALI

Nome
Direttore/Responsabile

Telefono
E-mail istituzionale

PAOLO PERSONA

Direttore U.O.C. Anestesia e Terapia Intensiva Polispecialistica Postoperatoria

0458122621

paolo.persona@aovr.veneto.it

ESPERIENZA LAVORATIVA

- Dal 2/2025 a tutt'oggi: Direttore Anestesia e Terapia Intensiva Polispecialistica Postoperatoria – Azienda Ospedaliera Universitaria Integrata Verona
- Dal 20/2/2007 al 31/1/2025 incarico a tempo indeterminato come Dirigente Medico di primo livello conferito dall'Azienda Ospedale - Università di Padova

ISTRUZIONE E FORMAZIONE

- 2021: Conseguitamento Abilitazione Scientifica Nazionale nel Settore Concorsuale 06/L1 - seconda fascia - anno 2018-2020
- 2010: Dottorato in Farmacologia, Tossicologia e Terapia (XXI Ciclo) - Università degli Studi di Padova
- 2005: Specializzazione in Anestesia e Rianimazione presso l'Università degli Studi di Padova (durata legale 4 aa - D.Lgs. 368/99)
- 2000: Laurea in Medicina e Chirurgia presso l'Università degli Studi di Padova

**CAPACITÀ E COMPETENZE
PERSONALI**

*Acquisite nel corso della vita e della
carriera ma non necessariamente
riconosciute da certificati e diplomi
ufficiali.*

- 2023 Altissima Professionalità quale articolazione interna di struttura complessa 'Metodologia applicata alla selezione e collocazione dei pazienti critici' afferente alla UOC Istituto di Anestesia e Rianimazione, Azienda Ospedale Università di Padova (art.18 co.1 par II lett a2) CCNL Area Sanità - triennio 2016-2018 per il periodo 20/12/2022 - 19/12/2027, con attività specifica di gestione dei flussi di pazienti critici e dei posti di Terapia Intensiva dell'Azienda Ospedale Università di Padova finalizzata alla disponibilità di posto letto per chirurgia ad alta complessità e per le urgenze medico chirurgiche.
- 2023 a tutt'oggi Membro del comitato scientifico e docente del Master Universitario di II livello 'Ecografia point-of-care in medicina d'urgenza e degli stati critici' Dipartimento

di Scienze Mediche, Università di Torino.

- 2022-2023 e 2021-2022 Contratto di insegnamento "Tecniche ecografiche in emergenza" SSD MED/41 7 ore - 1 CFU al 2° anno della Scuola di Specializzazione di Anestesia, Rianimazione, Terapia Intensiva e del Dolore - Università degli Studi di Padova.
- 2021-2022-2023-2024 Docente al 'Master Interuniversitario di Medicina dei Trapianti ed Epatologia Avanzata', Università degli Studi di Milano-Bicocca & Università degli Studi di Padova.
- 2009-2019 membro dello staff del centro di simulazione SimulArti dell'Università degli Studi di Padova, con all'attivo più di 150 corsi di simulazione in medicina critica con vari ruoli (docente, tutor, coordinatore).
- 2018 Istruttore di Pediatric Advanced Life Support (AHA).
- 2016 Istruttore di Advanced Cardiac Life Support Experienced Provider (AHA).
- 2015 Istruttore di Advanced Cardiac Life Support (AHA).
- 2014 Certificazione Advanced Trauma Life Support provider.

MADRELINGUA

ITALIANO

ALTRE LINGUA

INGLESE

AUTOVALUTAZIONE	COMPRENSIONE		PARLATO		SCRITTO
LIVELLO EUROPEO	ASCOLTO	LETTURA	INTERAZIONE	PRODUZIONE ORALE	PRODUZIONE SCRITTA
	B2	C1	C1	C1	C1

CAPACITÀ E COMPETENZE
RELAZIONALI

- 11/2016 International coordinator della terza edizione del corso 'Acute Care Ultrasound' nell'ambito del congresso della Critical Care Nepalese Society, Kathmandu, Nepal
- Dal 2008 correlatore in più di 30 Tesi di laurea in Medicina, di specializzazione in Anestesia e Terapia intensiva, di Master in Infermieristica.
- 11/2024 Partecipazione all'organizzazione del congresso nazionale della Società Italiana di Terapia Intensiva

CAPACITÀ E COMPETENZE
ORGANIZZATIVE

- 2020 Specifica esperienza professionale come responsabile clinico-organizzativo di una Terapia Intensiva Covid (Istar 6) dell'Azienda Ospedale Università di Padova da 6 posti letto aperta in emergenza per far fronte alla necessità di posti letto durante il picco della seconda ondata di Covid-19 di Dicembre 2020.
- Dal 2010 al 2017 Specifica esperienza professionale (in qualità di Referente per il Veneto, Trentino Alto-Adige e Friuli Venezia-Giulia) come coordinatore locale della rete Respira (rete nazionale per il trattamento delle insufficienze respiratorie refrattarie alla terapia convenzionale – ex ECMONet) caratterizzata da attività di coordinamento, assistenziale e di ricerca nel campo del trattamento del paziente con ipossiemia refrattaria da trattare con circolazione extracorporea.
- 2016 Principal Investigator per l'Azienda Ospedale Università di Padova nel progetto europeo "Collaborative European NeuroTrauma Effectiveness Research in Traumatic Brain Injury (CENTER-TBI)", studio multicentrico finanziato dall' Unione Europea nell'ambito del 7° Programma Quadro. Lo studio si poneva come obiettivo la raccolta di dati di alta qualità sul trauma cranico per meglio caratterizzare la patologia e descriverla nel contesto europeo e per identificare i migliori interventi per la gestione clinica; lo studio internazionale prospettico multicentrico ha coinvolto 22 paesi e arruolato e analizzato i dati di 5.400 pazienti affetti da trauma cranico; è inoltre stato creato un registro con 20.000 pazienti. Nello studio erano compresi l'analisi di neurodiagnostica avanzata, genomica e dati sui neuromarcatori. Lo studio ha già prodotto diversi studi su riviste internazionali ad alto impatto e altri sono in fase di pubblicazione.
- Dal 2011 Partecipazione alle attività di ricerca del gruppo Pulse wave analysis Cardiac

Output validation (PulseCOval) Group caratterizzato da collaborazioni a livello internazionale (Francia, Inghilterra, Spagna) per lo studio dell'analisi dell'onda arteriosa nel monitoraggio emodinamico in particolare con metodiche mini-invasive.

CAPACITÀ E COMPETENZE TECNICHE

- Specifiche competenze nell'utilizzo degli ultrasuoni in Terapia Intensiva (point of care ultrasound)
- Specifiche competenze nell'utilizzo del monitoraggio emodinamico nel paziente critico
- Specifiche competenze nell'utilizzo della circolazione extracorporea veno-venosa nel paziente con insufficienza respiratoria refrattaria alla terapia convenzionale

PUBBLICAZIONI

1. Pacchiarini G, Pettenuzzo T, Zarantonello F, Sella N, Lumetti G, Boscolo A, De Cassai A, Cammarota G, Persona P, Navalesi P. The "mechanical paradox" unveiled: a physiological study. LOVE BEER Study Group. Crit Care. 2025 May 16;29(1):194.
2. Persona P, Valeri I, Zarantonello F, Forin E, Pivetta E, Giacom TA, Pettenuzzo T, Volpicelli G, Navalesi P; SURF group. Lung Ultrasound to Detect Overdistension in Mechanically Ventilated Patients: A Pilot Study. Am J Respir Crit Care Med. 2025 Jan 2.
3. Germani G, Ferrarese A, D'Arcangelo F, Russo FP, Senzolo M, Gambato M, Zanetto A, Cillo U, Feltracco P, Persona P, Serra E, Feltrin G, Carretta G, Capizzi A, Donato D, Tessarin M, Burra P. The role of an integrated referral program for patients with liver disease: A network between hub and spoke centers. United European Gastroenterol J. 2024 Feb;12(1):76-88.
4. Vetrugno L, Mojoli F, Boero E, Berchialla P, Bignami EG, Orso D, Cortegiani A, Forfori F, Corradi F, Cammarota G, De Robertis E, Mongodi S, Chiumello D, Poole D, Ippolito M, Biasucci DG, Persona P, Bove T, Ball L, Pelosi P, Navalesi P, Antonelli M, Corcione A, Giarratano A, Petrini F. Level of Diffusion and Training of Lung Ultrasound during the COVID-19 Pandemic - A National Online Italian Survey (ITALUS) from the Lung Ultrasound Working Group of the Italian Society of Anesthesia, Analgesia, Resuscitation, and Intensive Care (SIAARTI). Ultraschall Med. 2022 Oct;43(5):464-472.
5. Pettenuzzo T, Sella N, Zarantonello F, De Cassai A, Geraldini F, Persona P, Pistollato E, Boscolo A, Navalesi P. How to recognize patients at risk of self-inflicted lung injury. Expert Rev Respir Med. 2022 Sep;16(9):963-971
6. Persona P, Tonetti T, Valeri I, Pivetta E, Zarantonello F, Pettenuzzo T, De Cassai A, Navalesi P. Dynamic Arterial Elastance to Predict Mean Arterial Pressure Decrease after Reduction of Vasopressor in Septic Shock Patients. Life (Basel). 2022 Dec 22;13(1):28. doi: 10.3390/life13010028. PMID: 36675977; PMCID: PMC9862728.
7. Valeri I, Persona P, Pivetta E, De Rosa S, Cescon R, Petranzan E, Antonello M, Grego F, Navalesi P. Renal-Resistive Index and Acute Kidney Injury in Aortic Surgery: An Observational Pilot Study J Cardiothorac Vasc Anesth. 2022 Jan 2:S1053-0770(21)01116-2. doi: 10.1053/j.jvca.2021.12.033.
8. Vetrugno L, Mojoli F, Cortegiani A, Bignami EG, Ippolito M, Orso D, Corradi F, Cammarota G, Mongodi S, Boero E, Iacovazzo C, Vargas M, Poole D, Biasucci DG, Persona P, Bove T, Ball L, Chiumello D, Forfori F, de Robertis E, Pelosi P, Navalesi P, Giarratano A.

- ratano A, Petrini F. Italian Society of Anesthesia, Analgesia, Resuscitation, and Intensive Care expert consensus statement on the use of lung ultrasound in critically ill patients with coronavirus disease 2019 (ITACO). *J Anesth Analg Crit Care*. 2021 Nov 24;1(1):16.
9. Sella N, Pettenuzzo T, Della Paolera M, Andreatta G, Boscolo A, De Cassai A, Muraro L, Peralta A, Persona P, Petranzan E, Zarantonello F, Serra E, Navalesi P. Two Consecutive Runs of Veno-Venous Extracorporeal Membrane Oxygenation in a Peripartum Patient with COVID-19 Acute Respiratory Distress Syndrome. *Case Rep Crit Care*. 2021 Jul 9;2021:2032197. doi: 10.1155/2021/2032197. eCollection 2021.
 10. Persona P, Valeri I, Saraceni E, De Cassai A, Calabrese F, Navalesi P. Cardiac Output Evaluation on Septic Shock Patients: Comparison between Calibrated and Uncalibrated Devices during Vasopressor Therapy. *J Clin Med*. 2021 Jan 9;10(2):213. doi: 10.3390/jcm10020213.
 11. Pettenuzzo T, Boscolo A, De Cassai A, Sella N, Zarantonello F, Persona P, Pasin L, Landoni G, Navalesi P. Higher versus lower positive end-expiratory pressure in patients without acute respiratory distress syndrome: a meta-analysis of randomized controlled trials *Crit Care*. 2021 Jul 15;25(1):247. doi: 10.1186/s13054-021-03669-4
 12. Persona P, Valeri I, Zarantonello F, Forin E, Sella N, Andreatta G, Correale C, Serra E, Boscolo A, Volpicelli G, Navalesi P. Patients in intensive care unit for COVID-19 pneumonia: the lung ultrasound patterns at admission and discharge. An observational pilot study *Ultrasound J*. 2021 Feb 24;13(1):10. doi: 10.1186/s13089-021-00213-x.
 13. Messina A, Romano SM, Ozdemirkan A, Persona P, Tarquini R, Cammarota G, Romagnoli S, Della Corte F, Bennett V, Monge García MI, Cecconi M, Payen D. Multivariable haemodynamic approach to predict the fluid challenge response: A multi-centre cohort study. *Eur J Anaesthesiol*. 2021 Jan;38(1):22-31.
 14. De Cassai A, Boscolo A, Zarantonello F, Piasentini E, Di Gregorio G, Munari M, Persona P, Zampirolo S, Zatta M, Navalesi P. Serratus anterior plane block for video-assisted thoracoscopic surgery: A meta-analysis of randomised controlled trials *Eur J Anaesthesiol* 2021 Feb 1;38(2):106-114.
 15. Avruscio G, Camporese G, Campello E, Bernardi E, Persona P, Passarella C, Noventa F, Cola M, Navalesi P, Cattelan A, Tiberio I, Boscolo A, Spiezia L, Simioni P; COVID-VTE Study Group. COVID-19 and Venous Thromboembolism in Intensive Care or Medical Ward. *Clin Transl Sci*. 2020 Nov;13(6):1108-1114. doi: 10.1111/cts.12907. Epub 2020 Oct 23.
 16. De Cassai A, Geraldini F, Boscolo A, Pasin L, Pettenuzzo T, Persona P, Munari M, Navalesi P. General Anesthesia Compared to Spinal Anesthesia for Patients Undergoing Lumbar Vertebral Surgery: A Meta-Analysis of Randomized Controlled Trials. *J Clin Med*. 2020 Dec 30;10(1):102. doi: 10.3390/jcm10010102.

CONTRIBUTI IN PUBBLICAZIONI CENSITE DA PUBMED (Ultimi 5 anni)

1. De Rosa S, Sella N, Bellani G, Foti G, Cortegiani A, Lorenzoni G, Gregori D, Boscolo A, Cattin L, Elhadi M, Fullin G, Garofalo E, Gottin L, Grassetto A, Maggiore

SM, Momesso E, Peta M, Poole D, Rona R, Tiberio I, Zanoletti A, Rezoagli E, Navalesi P; SIAARTI Study Group. Oxygenation improvement and duration of prone positioning are associated with ICU mortality in mechanically ventilated COVID-19 patients. *Ann Intensive Care*. 2025 Jan 28;15(1):20.

2. Vreeburg RJG, Singh RD, van Erp IAM, Korhonen TK, Yue JK, Mee H, Timofeev I, Kolias A, Helmy A, Depreitere B, Moojen WA, Younsi A, Hutchinson P, Manley GT, Steyerberg EW, de Ruiter GCW, Maas AIR, Peul WC, van Dijk JTJM, den Boogert HF, Posti JP, van Essen TA; for the CENTER-TBI Participants and Investigators. Early versus delayed cranioplasty after decompressive craniectomy in traumatic brain injury: a multicenter observational study within CENTER-TBI and Net-QuRe. *J Neurosurg*. 2024 Apr 26:1-13. doi: 10.3171/2024.1.JNS232172. Epub ahead of print. PMID: 38669706.
3. Howe EI, Andelic N, Brunborg C, Zeldovich M, Helseth E, Skandsen T, Olsen A, Fure SCR, Theadom A, Rauen K, Madsen BÅ, Jacobs B, van der Naalt J, Tartaglia MC, Einarsen CE, Storvig G, Tronvik E, Tverdal C, von Steinbüchel N, Røe C, Hellstrøm T; CENTER-TBI Participants and Investigators. Frequency and predictors of headache in the first 12 months after traumatic brain injury: results from CENTER-TBI. *J Headache Pain*. 2024 Mar 25;25(1):44. doi: 10.1186/s10194-024-01751-0. PMID: 38528477; PMCID: PMC10964672.
4. Zheng J, Ouyang Y, Zhang K, Wang Z, Younsi A, Alhalabi O, Fu H; Collaborative European NeuroTrauma Effectiveness Research in Traumatic Brain Injury (CENTER-TBI) Investigators and Participants. Early vs Late Fixation of Extremity Fractures Among Adults With Traumatic Brain Injury. *JAMA Netw Open*. 2024 Mar 4;7(3):e241556.
5. Robba C, Graziano F, Picetti E, Åkerlund C, Addis A, Pastore G, Sivero M, Reboira P, Galimberti S, Stocchetti N, Maas A, Menon DK, Citerio G; CENTER-TBI Participants and Investigators. Early systemic insults following traumatic brain injury: association with biomarker profiles, therapy for intracranial hypertension, and neurological outcomes-an analysis of CENTER-TBI data. *Intensive Care Med*. 2024 Mar;50(3):371-384. doi: 10.1007/s00134-024-07324-8. Epub 2024 Feb 20.
6. Ntinas M, Stewart W, Ietswaart M, Hunter AM, Maas AIR, Menon DK, Wilson L; CENTER-TBI participants and investigators. Contrasting Characteristics and Outcomes of Sports-Related and Non-Sports-Related Traumatic Brain Injury. *JAMA Netw Open*. 2024 Jan 2;7(1):e2353318. doi: 10.1001/jamanetworkopen.2023.53318.
7. Åkerlund CAI, Holst A, Bhattacharyay S, Stocchetti N, Steyerberg E, Smielewski P, Menon DK, Ercole A, Nelson DW; CENTER-TBI participants and investigators. Clinical descriptors of disease trajectories in patients with traumatic brain injury in the intensive care unit (CENTER-TBI): a multicentre observational cohort study. *Lancet Neurol*. 2024 Jan;23(1):71-80. doi: 10.1016/S1474-4422(23)00358-7. Epub 2023 Nov 14.

8. Zeldovich M, Bockhop F, Covic A, Mueller I, Polinder S, Mikolic A, van der Vlegel M, von Steinbuechel N; CENTER-TBI participants and investigators. Factorial validity and comparability of the six translations of the Rivermead Post-Concussion Symptoms Questionnaire translations: results from the CENTER-TBI study. *J Patient Rep Outcomes*. 2023 Sep 8;7(1):90. doi: 10.1186/s41687-023-00632-5. PMID: 37682406; PMCID: PMC10491569.
9. Woodrow RE, Winzeck S, Luppi AI, Kelleher-Unger IR, Spindler LRB, Wilson JTL, Newcombe VFJ, Coles JP; CENTER-TBI MRI Substudy Participants and Investigators; Menon DK, Stamatakis EA. Acute thalamic connectivity precedes chronic post-concussive symptoms in mild traumatic brain injury. *Brain*. 2023 Aug 1;146(8):3484-3499. doi: 10.1093/brain/awad056.
10. Riemann L, Mikolic A, Maas A, Unterberg A, Younsi A; Collaborative European NeuroTrauma Effectiveness Research in Traumatic Brain Injury (CENTER-TBI) Investigators and Participants. Computed Tomography Lesions and Their Association With Global Outcome in Young People With Mild Traumatic Brain Injury. *J Neurotrauma*. 2023 Jun;40(11-12):1243-1254. doi: 10.1089/neu.2022.0055. Epub 2023 Feb 24.
11. Howe EI, Zeldovich M, Andelic N, von Steinbuechel N, Fure SCR, Borgen IMH, Forslund MV, Hellström T, Sørberg HL, Sveen U, Rasmussen M, Kleffelgaard I, Tverdal C, Helseth E, Løvstad M, Lu J, Arango-Lasprilla JC, Tenovuo O, Azouvi P, Dawes H, Roe C; CENTER-TBI participants and investigators. Rehabilitation and outcomes after complicated vs uncomplicated mild TBI: results from the CENTER-TBI study. *BMC Health Serv Res*. 2022 Dec 16;22(1):1536. doi: 10.1186/s12913-022-08908-0. PMID: 36527074; PMCID: PMC9758851.
12. Van Praag DLG, Wouters K, Van Den Eede F, Wilson L, Maas AIR; CENTER-TBI investigators and participants. Neurocognitive correlates of probable posttraumatic stress disorder following traumatic brain injury. *Brain Spine*. 2021 Dec 22;2:100854. doi: 10.1016/j.bas.2021.100854. PMID: 36248103; PMCID: PMC9560676.
13. Bockhop F, Zeldovich M, Cunitz K, Van Praag D, van der Vlegel M, Beissbarth T, Hagmayer Y, von Steinbuechel N; CENTER-TBI participants and investigators. Measurement invariance of six language versions of the post-traumatic stress disorder checklist for DSM-5 in civilians after traumatic brain injury. *Sci Rep*. 2022 Oct 4;12(1):16571. doi: 10.1038/s41598-022-20170-2. PMID: 36195725; PMCID: PMC9532419.
14. Richter S, Winzeck S, Czeiter E, Amrein K, Kornaropoulos EN, Verheyden J, Sugar G, Yang Z, Wang K, Maas AIR, Steyerberg E, Büki A, Newcombe VFJ, Menon DK; Collaborative European NeuroTrauma Effectiveness Research in Traumatic Brain Injury Magnetic Resonance Imaging (CENTER-TBI MRI) Sub-

study Participants and Investigators. Serum biomarkers identify critically ill traumatic brain injury patients for MRI. *Crit Care*. 2022 Nov 29;26(1):369. doi: 10.1186/s13054-022-04250-3.

15. Rezoagli E, Petrosino M, Rebora P, Menon DK, Mondello S, Cooper DJ, Maas AIR, Wieggers EJA, Galimberti S, Citerio G; CENTER-TBI, OzENTER-TBI Participants and Investigators. High arterial oxygen levels and supplemental oxygen administration in traumatic brain injury: insights from CENTER-TBI and OzENTER-TBI. *Intensive Care Med*. 2022 Dec;48(12):1709-1725. doi: 10.1007/s00134-022-06884-x. Epub 2022 Oct 20.
16. Riemann L, Alhalabi OT, Unterberg AW, Younsi A; CENTER-TBI investigators and participants. Concomitant spine trauma in patients with traumatic brain injury: Patient characteristics and outcomes. *Front Neurol*. 2022 Aug 18;13:861688. doi: 10.3389/fneur.2022.861688.
17. Åkerlund CAI, Holst A, Stocchetti N, Steyerberg EW, Menon DK, Ercole A, Nelson DW; CENTER-TBI Participants and Investigators. Clustering identifies endotypes of traumatic brain injury in an intensive care cohort: a CENTER-TBI study. *Crit Care*. 2022 Jul 27;26(1):228. doi: 10.1186/s13054-022-04079-w.
18. van der Vlegel M, Mikolić A, Lee Hee Q, Kaplan ZLR, Retel Helmrich IRA, van Veen E, Andelic N, Steinbuechel NV, Plass AM, Zeldovich M, Wilson L, Maas AIR, Haagsma JA, Polinder S; CENTER-TBI Participants and Investigators. Health care utilization and outcomes in older adults after Traumatic Brain Injury: A CENTER-TBI study. *Injury*. 2022 Aug;53(8):2774-2782. doi: 10.1016/j.injury.2022.05.009. Epub 2022 May 26.
19. Wilson L, Horton L, Polinder S, Newcombe VFJ, Steinbuechel NV, Maas AIR, Menon DK; CENTER-TBI Participants and Investigators. Tailoring Multi-Dimensional Outcomes to Level of Functional Recovery after Traumatic Brain Injury. *J Neurotrauma*. 2022 Oct;39(19-20):1363-1381. doi: 10.1089/neu.2022.0013. Epub 2022 Jun 24.
20. Volovici V, Pisciă D, Gravesteijn BY, Dirven CMF, Steyerberg EW, Ercole A, Stocchetti N, Nelson D, Menon DK, Citerio G, van der Jagt M, Maas AIR, Haitsma IK, Lingsma HF; CENTER-TBI investigators, participants for the ICU stratum. Comparative effectiveness of intracranial hypertension management guided by ventricular versus intraparenchymal pressure monitoring: a CENTER-TBI study. *Acta Neurochir (Wien)*. 2022 Jul;164(7):1693-1705. doi: 10.1007/s00701-022-05257-z. Epub 2022 Jun 1. PMID: 35648213; PMCID: PMC9233652.
21. Thomas I, Dickens AM, Posti JP, Czeiter E, Duberg D, Sinioja T, Kråkström M, Retel Helmrich IRA, Wang KKW, Maas AIR, Steyerberg EW, Menon DK, Tenovu O, Hyötyläinen T, Büki A, Orešič M; CENTER-TBI Participants and Investigators. Serum metabolome associated with severity of acute traumatic brain injury. *Nat*

22. Retel Helmrich IRA, van Klaveren D, Andelic N, Lingsma H, Maas A, Menon D, Polinder S, Røe C, Steyerberg EW, Van Veen E, Wilson L; CENTER-TBI participants and investigators. Discrepancy between disability and reported well-being after traumatic brain injury. *J Neurol Neurosurg Psychiatry*. 2022 May 10;93(7):785-96.
23. van Essen TA, Lingsma HF, Pisciă D, Singh RD, Volovici V, den Boogert HF, Younsi A, Peppel LD, Heijenbrok-Kal MH, Ribbers GM, Walchenbach R, Menon DK, Hutchinson P, Depreitere B, Steyerberg EW, Maas AIR, de Ruiter GCW, Peul WC; CENTER-TBI Collaboration Group. Surgery versus conservative treatment for traumatic acute subdural haematoma: a prospective, multicentre, observational, comparative effectiveness study. *Lancet Neurol*. 2022 Jul;21(7):620-631.
24. Theakstone AG, Brennan PM, Ashton K, Czeiter E, Jenkinson MD, Syed K, Reed MJ, Baker MJ; CENTER-TBI Participants and Investigators. Vibrational Spectroscopy for the Triage of Traumatic Brain Injury Computed Tomography Priority and Hospital Admissions. *J Neurotrauma*. 2022 Jun;39(11-12):773-783.
25. Galimberti S, Graziano F, Maas AIR, Isernia G, Lecky F, Jain S, Sun X, Gardner RC, Taylor SR, Markowitz AJ, Manley GT, Valsecchi MG, Bellelli G, Citerio G; CENTER-TBI and TRACK-TBI participants and investigators. Effect of frailty on 6-month outcome after traumatic brain injury: a multicentre cohort study with external validation. *Lancet Neurol*. 2022 Feb;21(2):153-162.
26. Böhm JK, Schaeben V, Schäfer N, Güting H, Lefering R, Thorn S, Schöchl H, Zipperle J, Grottke O, Rossaint R, Stanworth S, Curry N, Maegele M; CENTER-TBI Participants and Investigators. Extended Coagulation Profiling in Isolated Traumatic Brain Injury: A CENTER-TBI Analysis. *Neurocrit Care*. 2022 Jun;36(3):927-941.
27. Ceyisakar IE, Huijben JA, Maas AIR, Lingsma HF, van Leeuwen N; CENTER-TBI participants and investigators. Can We Cluster ICU Treatment Strategies for Traumatic Brain Injury by Hospital Treatment Preferences? *Neurocrit Care*. 2022 Jun;36(3):846-856.
28. Horton L, Rhodes J, Menon DK, Maas AIR, Wilson L; Collaborative European NeuroTrauma Effectiveness Research in TBI (CENTER-TBI) Participants and Investigators. Questionnaires vs Interviews for the Assessment of Global Functional Outcomes After Traumatic Brain Injury. *JAMA Netw Open*. 2021 Nov 1;4(11):e2134121. doi: 10.1001/jamanetworkopen.2021.34121. PMID: 34762111; PMCID: PMC8586906.
29. Mikolic A, Groeniger JO, Zeldovich M, Wilson L, van Lennep JR, van Klaveren D, Polinder S; Collaborative European NeuroTrauma Effectiveness Research in Traumatic Brain Injury (CENTER-TBI) Participants and Investigators. Explaining

Outcome Differences between Men and Women following Mild Traumatic Brain Injury. *J Neurotrauma*. 2021 Dec;38(23):3315-3331.

30. Boscolo A, Pasin L, Sella N, Pretto C, Tocco M, Tamburini E, Rosi P, Polati E, Donadello K, Gottin L, Vianello A, Landoni G, Navalesi P; FERS, for the COVID-19 VENETO ICU Network. Outcomes of COVID-19 patients intubated after failure of non-invasive ventilation: a multicenter observational study. *Sci Rep*. 2021 Sep 6;11(1):17730. doi: 10.1038/s41598-021-96762-1. PMID: 34489504; PMCID: PMC8421335.
31. Lorenzoni G, Sella N, Boscolo A, Azzolina D, Bartolotta P, Pasin L, Pettenuzzo T, De Cassai A, Baratto F, Toffoletto F, De Rosa S, Fullin G, Peta M, Rosi P, Polati E, Zanella A, Grasselli G, Pesenti A, Navalesi P, Gregori D; VENETO ICU Network. COVID-19 ICU mortality prediction: a machine learning approach using SuperLearner algorithm. *J Anesth Analg Crit Care*. 2021 Sep 1;1(1):3. doi: 10.1186/s44158-021-00002-x. PMID: 37386625; PMCID: PMC8413709.
32. van Veen E, van der Jagt M, Citerio G, Stocchetti N, Gommers D, Burdorf A, Menon DK, Maas AIR, Kompanje EJO, Lingsma HF; CENTER-TBI investigators and participants. Occurrence and timing of withdrawal of life-sustaining measures in traumatic brain injury patients: a CENTER-TBI study. *Intensive Care Med*. 2021 Oct;47(10):1115-1129.
33. Sewalt CA, Gravesteijn BY, Menon D, Lingsma HF, Maas AIR, Stocchetti N, Venema E, Lecky FE; CENTER TBI Participants and Investigators. Primary versus early secondary referral to a specialized neurotrauma center in patients with moderate/severe traumatic brain injury: a CENTER TBI study. *Scand J Trauma Resusc Emerg Med*. 2021 Aug 4;29(1):113. doi: 10.1186/s13049-021-00930-1. PMID: 34348784; PMCID: PMC8340517.
34. Boscolo A, Sella N, Lorenzoni G, Pettenuzzo T, Pasin L, Pretto C, Tocco M, Tamburini E, De Cassai A, Rosi P, Polati E, Donadello K, Gottin L, De Rosa S, Baratto F, Toffoletto F, Ranieri VM, Gregori D, Navalesi P; COVID-19 VENETO ICU Network. Static compliance and driving pressure are associated with ICU mortality in intubated COVID-19 ARDS. *Crit Care*. 2021 Jul 28;25(1):263. doi: 10.1186/s13054-021-03667-6. PMID: 34321047; PMCID: PMC8317138.
35. Wieggers EJA, Lingsma HF, Huijben JA, Cooper DJ, Citerio G, Frisvold S, Helbok R, Maas AIR, Menon DK, Moore EM, Stocchetti N, Dippel DW, Steyerberg EW, van der Jagt M; CENTER-TBI; OzENTER-TBI Collaboration Groups. Fluid balance and outcome in critically ill patients with traumatic brain injury (CENTER-TBI and OzENTER-TBI): a prospective, multicentre, comparative effectiveness study. *Lancet Neurol*. 2021 Aug;20(8):627-638.
36. Citerio G, Robba C, Rebora P, Petrosino M, Rossi E, Malgeri L, Stocchetti N, Galimberti S, Menon DK; Center-TBI participants and investigators. Management of arterial partial pressure of carbon dioxide in the first week after traumatic brain injury: results from the CENTER-TBI study. *Intensive Care Med*. 2021

Sep;47(9):961-973. doi: 10.1007/s00134-021-06470-7. Epub 2021 Jul 24. PMID: 34302517; PMCID: PMC8308080.

37. Yuh EL, Jain S, Sun X, Pisica D, Harris MH, Taylor SR, Markowitz AJ, Mukherjee P, Verheyden J, Giacino JT, Levin HS, McCrea M, Stein MB, Temkin NR, Diaz-Arastia R, Robertson CS, Lingsma HF, Okonkwo DO, Maas AIR, Manley GT; TRACK-TBI Investigators for the CENTER-TBI Investigators; Adeoye O, Badjatia N, Boase K, Bodien Y, Corrigan JD, Crawford K, Dikmen S, Duhaime AC, Ellenbogen R, Feeser VR, Ferguson AR, Foreman B, Gardner R, Gaudette E, Gonzalez L, Gopinath S, Gullapalli R, Hemphill JC, Hotz G, Keene CD, Kramer J, Kreitzer N, Lindsell C, Machamer J, Madden C, Martin A, McAllister T, Merchant R, Nelson L, Ngwenya LB, Noel F, Nolan A, Palacios E, Perl D, Rabinowitz M, Rosand J, Sander A, Satris G, Schnyer D, Seabury S, Toga A, Valadka A, Vassar M, Zafonte R. Pathological Computed Tomography Features Associated With Adverse Outcomes After Mild Traumatic Brain Injury: A TRACK-TBI Study With External Validation in CENTER-TBI. *JAMA Neurol.* 2021 Sep 1;78(9):1137-1148. doi: 10.1001/jamaneurol.2021.2120. PMID: 34279565; PMCID: PMC8290344.
38. Volpicelli G, Gargani L, Perlini S, Spinelli S, Barbieri G, Lanotte A, Casasola GG, Nogu  -Bou R, Lamorte A, Agricola E, Vill  n T, Deol PS, Nazerian P, Corradi F, Stefanone V, Fraga DN, Navalesi P, Ferre R, Boero E, Martinelli G, Cristoni L, Perani C, Vetrugno L, McDermott C, Miralles-Aguiar F, Secco G, Zattera C, Salinaro F, Grignaschi A, Bocatonda A, Giostra F, Infante MN, Covella M, Ingallina G, Burkert J, Frumento P, Forfori F, Ghiadoni L; on behalf of the International Multi-center Study Group on LUS in COVID-19. Lung ultrasound for the early diagnosis of COVID-19 pneumonia: an international multicenter study. *Intensive Care Med.* 2021 Apr;47(4):444-454. doi: 10.1007/s00134-021-06373-7. Epub 2021 Mar 20. PMID: 33743018; PMCID: PMC7980130.
39. Riemann L, Voormolen DC, Rauen K, Zweckberger K, Unterberg A, Younsi A; Collaborative European NeuroTrauma Effectiveness Research in Traumatic Brain Injury (CENTER-TBI) Investigators and Participants; The Collaborative European NeuroTrauma Effectiveness Research in Traumatic Brain Injury (CENTER-TBI) Investigators and Participants. Persistent postconcussive symptoms in children and adolescents with mild traumatic brain injury receiving initial head computed tomography. *J Neurosurg Pediatr.* 2021 Feb 26;27(5):538-547. doi: 10.3171/2020.9.PEDS20421. PMID: 33636701.
40. Huijben JA, Dixit A, Stocchetti N, Maas AIR, Lingsma HF, van der Jagt M, Nelson D, Citerio G, Wilson L, Menon DK, Ercole A; CENTER-TBI investigators and participants. Use and impact of high intensity treatments in patients with traumatic brain injury across Europe: a CENTER-TBI analysis. *Crit Care.* 2021 Feb 23;25(1):78. doi: 10.1186/s13054-020-03370-y. PMID: 33622371; PMCID: PMC7901510.
41. Gravesteyn BY, Sewalt CA, Venema E, Nieboer D, Steyerberg EW; CENTER-TBI Collaborators. Missing Data in Prediction Research: A Five-Step Approach for Multiple Imputation, Illustrated in the CENTER-TBI Study. *J Neurotrauma.* 2021

Jun 1;38(13):1842-1857. doi: 10.1089/neu.2020.7218. Epub 2021 Feb 25. PMID: 33470157.

42. Böhm JK, Güting H, Thorn S, Schäfer N, Rambach V, Schöchl H, Grottko O, Ros-saint R, Stanworth S, Curry N, Lefering R, Maegele M; CENTER-TBI Participants and Investigators. Global Characterisation of Coagulopathy in Isolated Traumatic Brain Injury (iTBI): A CENTER-TBI Analysis. *Neurocrit Care*. 2021 Aug;35(1):184-196. doi: 10.1007/s12028-020-01151-7. Epub 2020 Dec 11. PMID: 33306177; PMCID: PMC8285342.
43. Wilson L, Horton L, Kunzmann K, Sahakian BJ, Newcombe VF, Stamatakis EA, von Steinbuechel N, Cunitz K, Covic A, Maas A, Van Praag D, Menon D; CEN-TER-TBI participants and investigators. Understanding the relationship between cognitive performance and function in daily life after traumatic brain injury. *J Neurol Neurosurg Psychiatry*. 2020 Dec 2:jnnp-2020-324492. doi: 10.1136/jnnp-2020-324492. Epub ahead of print. PMID: 33268472.
44. Dijkland SA, Helmrich IRAR, Nieboer D, van der Jagt M, Dippel DWJ, Menon DK, Stocchetti N, Maas AIR, Lingsma HF, Steyerberg EW; CENTER-TBI Participants and Investigators. Outcome Prediction after Moderate and Severe Traumatic Brain Injury: External Validation of Two Established Prognostic Models in 1742 European Patients. *J Neurotrauma*. 2021 May 15;38(10):1377-1388. doi: 10.1089/neu.2020.7300. Epub 2020 Dec 14. PMID: 33161840.
45. Mikolić A, Polinder S, Steyerberg EW, Retel Helmrich IRA, Giacino JT, Maas AIR, van der Naalt J, Voormolen DC, von Steinbüchel N, Wilson L, Lingsma HF, van Klaveren D; Collaborative European NeuroTrauma Effectiveness Research in Traumatic Brain Injury (CENTER-TBI) Study Participants and Investigators. Pre-diction of Global Functional Outcome and Post-Concussive Symptoms after Mild Traumatic Brain Injury: External Validation of Prognostic Models in the Collabora-tive European NeuroTrauma Effectiveness Research in Traumatic Brain Injury (CENTER-TBI) Study. *J Neurotrauma*. 2021 Jan 15;38(2):196-209. doi: 10.1089/neu.2020.7074. Epub 2020 Oct 19. PMID: 32977737.
46. Jacob L, Cogné M, Tenovuo O, Røe C, Andelic N, Majdan M, Ranta J, Ylen P, Dawes H, Azouvi P; CENTER-TBI Participants and Investigators. Predictors of Access to Rehabilitation in the Year Following Traumatic Brain Injury: A European Prospective and Multicenter Study. *Neurorehabil Neural Repair*. 2020 Sep;34(9):814-830. doi: 10.1177/1545968320946038. Epub 2020 Aug 7. PMID: 32762407.
47. Gravesteyn BY, Sewalt CA, Nieboer D, Menon DK, Maas A, Lecky F, Klimek M, Lingsma HF; CENTER-TBI collaborators. Tracheal intubation in traumatic brain injury: a multicentre prospective observational study. *Br J Anaesth*. 2020 Oct;125(4):505-517. doi: 10.1016/j.bja.2020.05.067. Epub 2020 Jul 31. PMID: 32747075; PMCID: PMC7565908.
48. Andelic N, Røe C, Brunborg C, Zeldovich M, Løvstad M, Løke D, Borgen IM, Voormolen DC, Howe EI, Forslund MV, Dahl HM, von Steinbuechel N; CENTER-

- TBI participants investigators. Frequency of fatigue and its changes in the first 6 months after traumatic brain injury: results from the CENTER-TBI study. *J Neurol*. 2021 Jan;268(1):61-73. doi: 10.1007/s00415-020-10022-2. Epub 2020 Jul 16. Erratum in: *J Neurol*. 2020 Sep 10;: PMID: 32676767; PMCID: PMC7815577.
49. Voormolen DC, Polinder S, von Steinbuechel N, Feng Y, Wilson L, Oppe M, Haagsma JA; CENTER-TBI participants and investigators. Health-related quality of life after traumatic brain injury: deriving value sets for the QOLIBRI-OS for Italy, The Netherlands and The United Kingdom. *Qual Life Res*. 2020 Nov;29(11):3095-3107. doi: 10.1007/s11136-020-02583-6. Epub 2020 Jul 15. PMID: 32671617; PMCID: PMC7591447.
 50. Robba C, Rebori P, Banzato E, Wieggers EJA, Stocchetti N, Menon DK, Citerio G; Collaborative European NeuroTrauma Effectiveness Research in Traumatic Brain Injury Participants and Investigators. Incidence, Risk Factors, and Effects on Outcome of Ventilator-Associated Pneumonia in Patients With Traumatic Brain Injury: Analysis of a Large, Multicenter, Prospective, Observational Longitudinal Study. *Chest*. 2020 Dec;158(6):2292-2303. doi: 10.1016/j.chest.2020.06.064. Epub 2020 Jul 4. PMID: 32634435.
 51. van Wijk RPJ, van Dijk JTJM, Timmers M, van Veen E, Citerio G, Lingsma HF, Maas AIR, Menon DK, Peul WC, Stocchetti N, Kompanje EJO; CENTER-TBI investigators and participants. Informed consent procedures in patients with an acute inability to provide informed consent: Policy and practice in the CENTER-TBI study. *J Crit Care*. 2020 Oct;59:6-15. doi: 10.1016/j.jcrc.2020.05.004. Epub 2020 May 25. PMID: 32485440.
 52. Timmers M, van Dijk JTJM, van Wijk RPJ, Legrand V, van Veen E, Maas AIR, Menon DK, Citerio G, Stocchetti N, Kompanje EJO; CENTER-TBI investigators and participants. How do 66 European institutional review boards approve one protocol for an international prospective observational study on traumatic brain injury? Experiences from the CENTER-TBI study. *BMC Med Ethics*. 2020 May 12;21(1):36. doi: 10.1186/s12910-020-00480-8. PMID: 32398066; PMCID: PMC7216427.
 53. Mathieu F, Güting H, Gravesteijn B, Monteiro M, Glocker B, Kornaropoulos EN, Kamnitsas K, Robertson CS, Levin H, Whitehouse DP, Das T, Lingsma HF, Maegele M, Newcombe VFJ, Menon DK; Collaborative European NeuroTrauma Effectiveness Research in Traumatic Brain Injury (CENTER-TBI) Investigators and Participants. Impact of Antithrombotic Agents on Radiological Lesion Progression in Acute Traumatic Brain Injury: A CENTER-TBI Propensity-Matched Cohort Analysis. *J Neurotrauma*. 2020 Oct 1;37(19):2069-2080. doi: 10.1089/neu.2019.6911. Epub 2020 Jun 3. PMID: 32312149.
 54. Gravesteijn BY, Nieboer D, Ercole A, Lingsma HF, Nelson D, van Calster B, Steyerberg EW; CENTER-TBI collaborators. Machine learning algorithms performed no better than regression models for prognostication in traumatic brain injury. *J Clin Epidemiol*. 2020 Jun;122:95-107. doi: 10.1016/j.jclinepi.2020.03.005.

55. Feng J, van Veen E, Yang C, Huijben JA, Lingsma HF, Gao G, Jiang J, Maas AIR; Collaborative European Neuro Trauma Effectiveness Research in Traumatic Brain Injury (CENTER-TBI) Investigators and Participants. Comparison of Care System and Treatment Approaches for Patients with Traumatic Brain Injury in China versus Europe: A CENTER-TBI Survey Study. *J Neurotrauma*. 2020 Aug 15;37(16):1806-1817. doi: 10.1089/neu.2019.6900. Epub 2020 Apr 28. PMID: 32174214.
56. Huijben JA, Wiegers EJA, Ercole A, de Keizer NF, Maas AIR, Steyerberg EW, Citerio G, Wilson L, Polinder S, Nieboer D, Menon D, Lingsma HF, van der Jagt M; CENTER-TBI investigators and participants for the ICU stratum. Quality indicators for patients with traumatic brain injury in European intensive care units: a CENTER-TBI study. *Crit Care*. 2020 Mar 4;24(1):78. doi: 10.1186/s13054-020-2791-0. PMID: 32131882; PMCID: PMC7057641.
57. Huijben JA, Wiegers EJA, Lingsma HF, Citerio G, Maas AIR, Menon DK, Ercole A, Nelson D, van der Jagt M, Steyerberg EW, Helbok R, Lecky F, Peul W, Birg T, Zoerle T, Carbonara M, Stocchetti N; CENTER-TBI investigators and participants. Changing care pathways and between-center practice variations in intensive care for traumatic brain injury across Europe: a CENTER-TBI analysis. *Intensive Care Med*. 2020 May;46(5):995-1004. doi: 10.1007/s00134-020-05965-z. Epub 2020 Feb 25. PMID: 32100061; PMCID: PMC7210239.
58. Huie JR, Mondello S, Lindsell CJ, Antiga L, Yuh EL, Zanier ER, Masson S, Rosario BL, Ferguson AR; Transforming Research and Clinical Knowledge in Traumatic Brain Injury (TRACK-TBI) Investigators, The Transforming Research and Clinical Knowledge in Traumatic Brain Injury (TRACK-TBI) Investigators, Collaborative European NeuroTrauma Effectiveness Research in Traumatic Brain Injury (CENTER-TBI) Participants and Investigators, Collaborative European NeuroTrauma Effectiveness Research in Traumatic Brain Injury (CENTER-TBI) Participants and Investigators. Biomarkers for Traumatic Brain Injury: Data Standards and Statistical Considerations. *J Neurotrauma*. 2021 Sep 15;38(18):2514-2529. doi: 10.1089/neu.2019.6762. Epub 2020 Apr 1. PMID: 32046588; PMCID: PMC8403188.
59. Robba C, Galimberti S, Graziano F, Wiegers EJA, Lingsma HF, Iaquaniello C, Stocchetti N, Menon D, Citerio G; CENTER-TBI ICU Participants and Investigators. Tracheostomy practice and timing in traumatic brain-injured patients: a CENTER-TBI study. *Intensive Care Med*. 2020 May;46(5):983-994. doi: 10.1007/s00134-020-05935-5. Epub 2020 Feb 5. PMID: 32025780; PMCID: PMC7223805.
60. Vande Vyvere T, De La Rosa E, Wilms G, Nieboer D, Steyerberg E, Maas AIR, Verheyden J, van den Hauwe L, Parizel PM; CENTER-TBI Participants and Investigators. Prognostic Validation of the NINDS Common Data Elements for the Radiologic Reporting of Acute Traumatic Brain Injuries: A CENTER-TBI Study. *J*

Neurotrauma. 2020 Jun 1;37(11):1269-1282. doi: 10.1089/neu.2019.6710. Epub 2020 Feb 25. PMID: 31813313.

61. Gravesteijn BY, Sewalt CA, Ercole A, Akerlund C, Nelson D, Maas AIR, Menon D, Lingsma HF, Steyerberg EW; Collaborative European NeuroTrauma Effectiveness Research for Traumatic Brain Injury Collaborators. Toward a New Multi-Dimensional Classification of Traumatic Brain Injury: A Collaborative European NeuroTrauma Effectiveness Research for Traumatic Brain Injury Study. J Neurotrauma. 2020 Apr 1;37(7):1002-1010. doi: 10.1089/neu.2019.6764. Epub 2019 Dec 5. PMID: 31672086.
62. Steyerberg EW, Wiegers E, Sewalt C, Buki A, Citerio G, De Keyser V, Ercole A, Kunzmann K, Lanyon L, Lecky F, Lingsma H, Manley G, Nelson D, Peul W, Stocchetti N, von Steinbüchel N, Vande Vyvere T, Verheyden J, Wilson L, Maas AIR, Menon DK; CENTER-TBI Participants and Investigators. Case-mix, care pathways, and outcomes in patients with traumatic brain injury in CENTER-TBI: a European prospective, multicentre, longitudinal, cohort study. Lancet Neurol. 2019 Oct;18(10):923-934. doi: 10.1016/S1474-4422(19)30232-7. PMID: 31526754.

PROCEEDINGS, CAPITOLI ED ABSTRACTS

1. Marvin G Chang, Abraham Sonny, David Dudzinski, Christopher R Tainter, Ryan J Horvath, Sheri Berg, Edward Bittner. Critical Care Echocardiography Review: 1200+ Questions and Answers. Wolters Kluwer Health, 6 ott 2021. Capitolo 52; Capitolo 57.
2. De Gaudio - Romagnoli - Biancofiore - Forfori - Franchi - Scolletta . Anestesia, Rianimazione, Terapia Intensiva, Dolore – ARTID. 2020 Capitolo 53; Capitolo 54.
3. Persona P, De Cassai A, Franco M, Facchin F, Ori C, Rossi S, Goffi A. Prone Position and Lung Ultrasound (ProPLUS) in ARDS. Abstract ESICM 2016