

## **Prof. Alberto Zangrillo**

### **CURRICULUM VITAE**

- Direttore dell'Area Clinica CardioToracoVascolare dell'IRCCS Ospedale San Raffaele.
- Direttore dell'Unità Operativa di Anestesia e Rianimazione Generale dell'IRCCS Ospedale San Raffaele.
- Direttore dell'Unità Operativa di Anestesia e Rianimazione Cardio Toraco Vascolare dell'IRCCS Ospedale San Raffaele.
- Direttore dell'Unità Operativa di Anestesia e Rianimazione dell'IRCCS San Raffaele Turro.
- Professore Ordinario di Anestesia e Rianimazione.
- Prorettore per le attività cliniche, Università Vita-Salute San Raffaele.
- Referente Direzionale Aree Cliniche dell'IRCCS Ospedale San Raffaele.

#### **Scheda biografica**

- Nato il 13 Aprile 1958 a Genova.
- Laurea in Medicina e Chirurgia presso l'Università degli Studi di Milano il 10 Novembre 1983. Specialità in Anestesia e Rianimazione presso l'Università degli Studi di Milano l'8 Luglio 1986.
- Per la sua formazione professionale ha frequentato i seguenti centri: Queen Charlotte Hospital di Londra, Hospital de la Santa Creu I Sant Pau di Barcellona, Cardio-thoracic Centre of Monaco di Montecarlo, Hetzer Deutsches Herzzentrum – Berlin, IRCCS Ospedale San Raffaele di Milano.

#### **Honors and Positions**

- Autore di oltre 580 pubblicazioni su riviste internazionali indicizzate (citate più di 26.900 volte, h-index 74), tra cui studi randomizzati su NEJM, JAMA, Circulation e British Medical Journal, 44 libri o capitoli di libri e oltre 500 abstracts.
- Visiting Professor, Universidad CES, Medellín, Colombia, 2016-2017.
- Editor in chief della rivista “Heart, Lung and Vessels” (2009-2015) e revisore di grant per donors internazionali (tra cui la Swiss National Science Foundation e l'Austrian Science Fund.).
- Secondo il database Scopus, è tra i primi medici al mondo per numero di pubblicazioni degli ultimi anni nell'ambito “anesthesia” e nell'ambito “intensive care”.

- Ha partecipato, spesso in qualità di principal investigator, a 56 protocolli di ricerca randomizzati approvati dal Comitato Etico dell'Ospedale San Raffaele.
- È stato membro del Comitato esperti per lo sviluppo del Sistema Sanitario Lombardo.
- È stato membro della Commissione Sviluppo Sanità della Regione Lombardia.
- Nel periodo 2021-2023 è stato Coordinatore dell'Area Cardiovascolare dell'IRCCS Ospedale San Raffaele.
- Nel periodo 2011-2014 è stato presidente della II Commissione del Consiglio Superiore di Sanità.
- Nel periodo 2009-2011 è stato Consulente del Ministro della Salute, Prof. Ferruccio Fazio e Membro del Comitato Scientifico del CCM (Centro Controllo Malattie Nazionali del Ministero della Salute).
- Nel periodo 2008-2014 è stato membro della Commissione di Bioetica del Ministero della Salute.
- È stato Presidente della Commissione del Ministero della Salute per la Pandemia Influenzale dal 2009 al 2011, Vice Presidente della Commissione Nazionale Ricerca Sanitaria, membro della Commissione Sport e Salute dal 2008 al 2011 e della Commissione Paritetica di Programmazione Congiunta del Ministero della Salute ed Istruzione.
- Insignito del titolo di Commendatore dal Presidente della Repubblica Italiana Giorgio Napolitano, in data 27 Dicembre 2010.
- Insignito del titolo di Cavaliere al merito della Repubblica Italiana dal Presidente della Repubblica Azeglio Ciampi, in data 2 Giugno 2004.

### **Attività di insegnamento**

- Docente per le Scuole di Specializzazione in Anestesia e Rianimazione, Chirurgia Vascolare, Chirurgia Toracica, Neurochirurgia, Chirurgia dell'Apparato Digerente e Malattie dell'Apparato Cardiovascolare.
- Docente presso il Corso Post-Graduate di Chirurgia e protesi Odontostomatologica (direttore Prof. Gherlone) dell'Università Vita-Salute San Raffaele.
- Attività didattica tutoriale agli specializzandi di Anestesia e Rianimazione e Cardiologia.
- Attività didattica formativa professionalizzante (APRO) per studenti del Corso di Laurea in Medicina e Chirurgia.
- Docente nell'ambito del Corso Integrato di Emergenze Medico Chirurgiche.

- Docente nell'ambito del Corso Integrato di Infermieristica Clinica in Area Critica.

Ha svolto anche le seguenti attività di insegnamento

- Coordinatore e Docente del Corso Integrato sull'Assistenza avanzata al paziente critico con patologie cardiologiche ad alta intensità assistenziale negli anni 2016/2017 e 2017/2018.
- Docente nell'ambito del corso elettivo sulle Moderne procedure di trattamento del paziente nel periodo perioperatorio per studenti del Corso di Laurea in Medicina e Chirurgia negli anni 2012/2013, 2013/2014, 2014/2015.
- Direttore e docente del Master di I Livello in Assistenza Infermieristica Avanzata al Paziente Critico, Università Vita-Salute Ospedale San Raffaele negli anni 2010/2011, 2016/2017, 2017/2018.
- Coordinatore e Docente nell'ambito del Corso Integrato sull'Assistenza avanzata al paziente critico con patologia cardiocircolatoria.
- Direttore della Scuola di Anestesia e Rianimazione, Università - Vita-Salute San Raffaele di Milano dal 2008 al 2017.
- Direttore e docente del Master di II Livello in Terapia Intensiva Cardiochirurgia, Università Vita-Salute Ospedale San Raffaele nel 2008/2009.
- Coordinatore e Docente del Corso Integrato sull'Assistenza avanzata al paziente critico con patologia cardiocircolatoria negli anni 2007/2008, 2008/2009 e 2010/2011.
- Docente nell'ambito del Master di Eco-doppler in cardiocirurgia – Insufficienza Mitralica Degenerativa negli anni 2005/2006 e 2008.
- Docente nell'ambito del Corso di Aggiornamento SIAARTI, La moderna Anestesia Bilanciata Anestesia Generale e Protezione a Giugno 2005.
- Docente nell'ambito del I° Corso Annuale Teorico Pratico di Ecocardiografia Transesofagea nel 2004.
- Co-Direttore programma di fellowship EACTA (European Association of Cardiothoracic Anaesthesiology).

### **Attività di ricerca in atto**

Le principali linee di ricerca vertono sulla implementazione di supporti meccanici avanzati alle funzioni vitali (sistema cardiovascolare e respiratorio) e sulla riduzione della mortalità perioperatoria e del danno d'organo. Nello specifico:

- ECMO (ExtraCorporeal Membrane Oxygenation), VAD (Ventricular Assist Device), cuore artificiale e altri supporti meccanici avanzati al circolo sistemico per il trattamento dello scompenso cardiaco acuto;
- coordinamento di reti nazionale di centri di eccellenza sui supporti avanzati al circolo e alla ventilazione (ECMO, VAD, cuore artificiale, trattamento dello scompenso cardiaco acuto);
- ventilazione non invasiva (NIV) nel malato critico, sia in terapia intensiva che ai piani di degenza, incluso lo sviluppo di nuovi devices meccanici per la ventilazione non invasiva;
- ventilazione protettiva intraoperatoria con partecipazione a studi multicentrici per approfondire le modalità ventilatorie cui vengono sottoposti i pazienti durante anestesia generale in Europa e quali conseguenze il trattamento ventilatorio intraoperatorio abbia sul decorso e lo sviluppo di complicanze postoperatorie;
- ruolo degli anestetici alogenati nella cardioprotezione perioperatoria con studi randomizzati sul confronto tra anestetico alogenato e anestetico endovenoso nel danno miocardico perioperatorio dei pazienti ad alto rischio sottoposti a chirurgia cardiaca e non cardiaca;
- prevenzione della mortalità perioperatoria e dell'infarto miocardico acuto perioperatorio: ruolo di betabloccanti, inotropi, antiaggreganti e clonidina. In particolare partecipazione a studi internazionali come centro coordinatore nazionale italiano;
- prevenzione e trattamento dell'insufficienza renale acuta perioperatoria e del danno d'organo del paziente critico con coordinamento di studi randomizzati multicentrici;
- sepsi in terapia intensiva;
- emergenze intra (medical emergency team) ed extra ospedaliere;
- management anestesilogico del paziente ad elevatissimo rischio periprocedurale;
- antibioticoterapia in terapia intensiva;
- controllo del dolore perioperatorio.

### **Attività Clinico-Assistenziale**

- Primario dell'Unità Operativa di Terapia Intensiva e Rianimazione Generale, IRCCS Ospedale San Raffaele e dell'Unità Operativa di Anestesia e Rianimazione San Raffaele Turro dal 2008.
- Primario dell'Unità Operativa di Anestesia e Rianimazione Cardio-Toraco-Vascolare, IRCCS Ospedale San Raffaele dal 2003.
- Dirigente Medico dal 1986.

## **Finanziamenti/Grants**

- Vincitore bando PNRR 2023, come Coordinatore del progetto “Technological and patient-tailored Innovations for Maximizing Effectiveness of Cardiac Arrest Resuscitation: the TIME-CARE project” – codice progetto PNRR-POC-2023-12377193.
- Grant programma Commissione Europea H2020, call H2020-ICT-2020-2, come co-applicant del progetto “ARTERY - Autonomous Robotics for Transcatheter dELiveRy sYstems” (Local PI Prof Alberto Zangrillo, PI Prof. Emiliano Votta, Politecnico di Milano).
- Vincitore Bando Ricerca Finalizzata 2018, come Principal Investigator, con il progetto “Acute normovolemic hemodilution in high-risk cardiac surgery patients. A multicenter randomized trial – ANH”.
- Vincitore Bando Fondazione Roche 2018, come Direttore/CO-Principal Investigator, per il progetto: “CIAO: Comunicare in autonomia”.
- Vincitore bando Conto Capitale 2012 “Creazione di una ECMO-room”.
- Vincitore Bando 2012 AIFA Ricerca Indipendente sui farmaci “Continuous infusion versus intermittent administration of MERopenem in Critically ill patients. A multicenter randomized double blind trial. – MERCY” (Multicentrico- Randomizzato – Farmacologico).
- Vincitore bando Ricerca Indipendente della Regione Lombardia, anno 2010. “Attività di coordinamento e gestione domiciliare di pazienti portatori di dispositivi di assistenza ventricolare (VAD) per il trattamento dell’insufficienza cardiaca terminale: il VAD Coordinator”.
- Vincitore bando Ricerca Finalizzata del Ministero della Salute, anno 2010. “Volatile anesthetics to reduce mortality in cardiac surgery. A multicentre randomized controlled study. (Gli alogenati nel paziente cardiocirurgico. Uno studio multicentrico randomizzato controllato)”.
- Vincitore bando ricerca Finalizzata del Ministero della Salute, anno 2009. “Levosimendan to reduce mortality in high risk cardiac surgery patients. A multicentre randomized controlled trial (Levosimendan in pazienti cardiocirurgici ad alto rischio. Uno studio multicentrico randomizzato controllato)”.
- Responsabile Clinico del progetto finanziato dalla Regione Lombardia, anno 2009. “Utilizzo di sistemi di assistenza ventricolare sinistra a flusso continuo in pazienti affetti da insufficienza cardiaca terminale”.
- Referente progetto CCM “Supporto extracorporeo cardiorespiratorio con ECMO (extracorporeal membrane oxygenation) in pazienti con scompenso cardiaco: miglioramento

dell'outcome e prevenzione delle complicanze". Anno 2009 – Prot. CNR-iBFM n. 00000175 del 14/04/2009.

- Coordinatore Responsabile del Progetto stipulato il 26 novembre 2009 tra il Ministero della Salute, l'Azienda Ospedaliera San Gerardo di Monza e la Fondazione Centro San Raffaele del Monte Tabor per la realizzazione della: "Rete nazionale per la gestione della sindrome da insufficienza respiratoria acuta grave da polmoniti da virus A(H1N1) e l'eventuale utilizzo della terapia ECMO".

## ALLEGATO **Protocolli randomizzati di ricerca**

1. The Mega Randomised Registry Trial Comparing Conservative vs. Liberal OXYgenation Targets (Mega-ROX), 2022
2. LEX-210 – Study of four-factor prothrombin complex concentrate, OCTAPLEX, in patients with acute major bleeding on direct oral anticoagulant (DOAC) therapy with factor Xa inhibitor. (EudraCT n° 2021-000740-21 – 2022, farmacologico, multicentrico, randomizzato)
3. SPHERE - GR-2021-12375001 - The effect of phoSPHocreatine on mEdical emergency team (met) tREated patients: a randomized clinical trial protocol. (EudraCT n° 2022-003703-16, farmacologico, multicentrico, randomizzato)
4. RENIN trail – GR-2021- 12375069. Effect of personalized hemodynamic management based on serum renin concentration on acute kidney injury progression in patients with shock: a randomized controlled trial.
5. REMAP-CAP – 2021 - Randomized, Embedded, Multifactorial Adaptive Platform trial for Community-Acquired Pneumonia
6. The TRISTARDS trial - 2021 - ThRombolysis Therapy for ARDS - A Phase IIb/III operationally seamless, open-label, randomised, sequential, parallel-group adaptive study to evaluate the efficacy and safety of daily intravenous alteplase treatment given up to 5 days on top of standard of care (SOC) compared with SOC alone, in patients with acute respiratory distress syndrome (ARDS) triggered by COVID-19.
7. Antiplatelet Removal and Hemocompatibility EventS with the Heart Mate 3 Pump (ARIES HM3). (ABT-CIP-10305 ARIES HM3 (CRD\_971) -2021 - farmacologico, randomizzato, multicentrico)
8. COP-AF - 2020 - COLchicine For The Prevention Of Perioperative Atrial Fibrillation In Patients Undergoing Thoracic Surgery
9. PIONEER - Pirfenidone to prevent fibrosis in ARDS. A Randomized controlled trial. (EudraCT n°2020-005306-25 -2021, farmacologico, multicentrico, randomizzato)
10. REP0220 - A phase 3, double blind, randomized, placebo-controlled, multicenter study on the efficacy and safety of Reparixin in the treatment of hospitalized patients with severe COVID-19 pneumonia. (EudraCT n°2020-005919-51 - 2020-2021, farmacologico, multicentrico, randomizzato)
11. REPAVID-19 Adaptive phase 2/3, randomized, controlled multicenter study on the efficacy and safety of Reparixin in the treatment of hospitalized patients with COVID-19 pneumonia. (EudraCT n°2020-001645-40 - 2020-2021, farmacologico, multicentrico, randomizzato)
12. PeriOperative ISchemic Evaluation-3 (POISE-3) Trial (EudraCT n° 2018-000539-29 - 2018, farmacologico, multicentrico, randomizzato).

13. Proton pump inhibitors (PPI) as a new strategy for therapy in sepsis: clinical trial to reduce severity of organ failure and in vitro experiments to search specific hallmarks in monocytes from septic patients and to characterize the mechanism of action of PPI. [PPI-SEPSIS] (EudraCT 2018-000488-98 - 2018, farmacologico, multicentrico, randomizzato).
14. Intravenous amino acid therapy for kidney protection in cardiac surgery: a multi-centre randomised blinded placebo controlled clinical trial. PROTECTION (EudraCT: 2018-000487-28 - 2018, farmacologico, multicentrico, randomizzato).
15. Ischaemic PREconditioning In Non Cardiac surgEry (PRINCE trial). (2018, interventistico, multicentrico, randomizzato).
16. Acute normovolemic hemodilution in cardiac surgery. A randomized trial. ANH (2018, multicentrico, randomizzato).
17. Targeted therapeutic mild hypercapnia after resuscitated cardiac arrest: A phase III multi-centre randomised controlled trial. - TAME Cardiac Arrest Trial - (2017, interventistico, multicentrico, randomizzato).
18. Biomarker-guided implementation of the cardiovascular (CV) surgery AKI bundle to reduce the occurrence of AKI after cardiac surgery - Prevention of AKI - (PrevAKI). (2017, interventistico, multicentrico, randomizzato).
19. Hip fracture accelerated surgical treatment and care track trial. HIP ATTACK (2016, interventistico, multicentrico, randomizzato).
20. Continuous infusion versus intermittent administration of meropenem in critically ill patients. A multicenter randomized double blind trial. (MERCY) (EudraCT n° 2016-002052-24 - 2016, farmacologico, multicentrico, randomizzato).
21. Standard versus Accelerated initiation of Renal Replacement Therapy in Acute Kidney Injury (STARRT-AKI): a Multi-Centre, Randomized, Controlled Trial (2015 -interventistico, multicentrico, randomizzato).
22. A Multicenter, Randomized, Open-label Clinical Study of S-649266 or Best Available Therapy for the Treatment of Severe Infections Caused by Carbapenem-resistant Gram-negative Pathogens - VAP CREDIBLE. (EudraCT 2015-004703-23 - 2015, farmacologico, multicentrico, randomizzato).
23. Acido Tranexamico nella Chirurgia Vascolare Maggiore. (TRANEX AAA) - (EudraCT n° 2014-001456-39 - 2014, farmacologico, randomizzato, monocentrico).
24. A randomized, Double-Blind, Placebo-Controlled, Four-Arm, Parallel-Group, Proof of Concep, and Dose-Finding Adaptive Phase 2a/2b. Study to Investigate the Safety, Tolerability and Efficacy and Effect on Quality of Life of Human Recombinant Alkaline Phosphatase in the Treatment of Patients With Sepsis-Associated Acute Kidney Injury. (API-recAP-AKI-02-01) – (EudraCT n° 2014-000761-40 - 2014, farmacologico, multicentrico, randomizzato).
25. REstrictive versus LIberal Fluid Therapy in Major Abdominal Surgery. (RELIEF) (2013, interventistico, multicentrico, randomizzato).

26. Volatile anesthetics to reduce mortality in cardiac surgery. A multicentre randomized controlled study. (VOLATILE 10.600) - (EudraCT n° 2013-005533-20 - 2013, farmacologico, multicentrico, randomizzato).
27. Sedation Practices in Intensive Care Evaluation. (SPICE III) - (EudraCT n° 2013-003307-20 - 2013, farmacologico, multicentrico, randomizzato).
28. Uno studio internazionale randomizzato, controllato vs placebo volto a valutare l'effetto dabigatran (un inibitore diretto della trombina) e di omeprazole (un inibitore di pompa protonica) in pazienti che manifestano danni al miocardio a seguito di un intervento chirurgico non cardiaco. (MANAGE) – (EudraCT n° 2011-006056-37 - 2011, farmacologico, multicentrico, randomizzato).
29. Somministrazione di concentrato di Proteina C in pazienti con sepsi severa e controindicazioni alla Proteina C attivata. Uno studio multicentrico randomizzato controllato con placebo. (CEPROTIN C). (EudraCT n° 2011-004834-32 - 2011, farmacologico, multicentrico, randomizzato).
30. (Randomized evaluation of fibrinogen versus placebo in omplex cardiovascular surgery): a prospective, multinational, multicenter, randomized, double bind, placebo-controlled, Phase III study for the use of Fibrinogen Concentrate (Human) (FCH) in complex cardiovascular surgery. (EudraCT n° 2011-002685-20 - 2011, farmacologico, multicentrico, randomizzato).
31. The Atacas trial: Aspirin and Tranexamic Acid for Coronary Artery Trial. (ATACAS) - (EudraCT n° 2009-015013-46 - 2009, farmacologico, multicentrico, randomizzato).
32. PeriOperative ISchemic Evaluation 2 Trial. A large, international, placebo-controlled, factorial trial to assess the impact of clonidine and acetyl-salicylic acid (ASA) in patients undergoing noncardiac surgery who are at risk of a perioperative cardiovascular event. (POISE2) - (EudraCT n° 2009-018173-31 - 2009, farmacologico, multicentrico, randomizzato).
33. Studio multicentrico, randomizzato, in doppio cieco, controllato con placebo per valutare l'efficacia e la sicurezza di Drotrecogin Alfa (attivato) in pazienti adulti in shock settico. (F1K-MC-EVDP:PROWESS-SHOCK - 2009, multicentrico, internazionale, sponsorizzato).
34. Percutaneous aortic valve implantation and renal guard: evaluation of the matched infusion therapy through a randomized controlled study. (2009, randomizzato – monocentrico).
35. Uno studio multicentrico, randomizzato, in doppio cieco, controllato con placebo per valutare l'efficacia e la sicurezza del rifornimento di FXIII con due diverse dosi di fattore XIII ricombinante dopo un intervento chirurgico di by-pass cardiopolmonare. (2009, farmacologico, multicentrico, randomizzato).
36. Esmololo in cardiocirurgia. Uno studio randomizzato, controllato con endpoints clinicamente rilevanti. (BREVI) – (EudraCT n° 2009-012624-93 - 2009, farmacologico, randomizzato, monocentrico).
37. Levosimendan in pazienti cardiocirurgici ad alto rischio. Uno studio multicentrico randomizzato controllato. (HSR-LEVO) - (EudraCT n° 2009-013066-31 - 2009, farmacologico, randomizzato, multicentrico).

38. Efficacia dell'acido tranexamico nel ridurre il sanguinamento perioperatorio nei pazienti sottoposti a prostatectomia radicale. (TRANEX-URO) - (EudraCT n° 2008-000588-41 - 2008, farmacologico, randomizzato, monocentrico).
39. Protezione cardiaca con sevoflurane in pazienti ad alto rischio sottoposti a cardiocirurgia. Studio randomizzato e controllato. (SEVO-AIFA) - (2007, farmacologico, randomizzato, multicentrico).
40. Fenoldopam e insufficienza renale acuta. (FENO-HSR) (EudraCT n° 2007-003045-33 - 2007, farmacologico, randomizzato, multicentrico).
41. Effetto dell'emodiluizione moderata in circolazione extra-corporea sull'outcome postoperatorio in pazienti cardiocirurgici. (2006, randomizzato, multicentrico).
42. Studio clinico multicentrico, randomizzato, in doppio-cieco, a dose scalare, placebo-controllato, per valutare la sicurezza e l'efficacia del fattore VII ricombinante attivato (rFVIIaNovoSeven®) nel trattamento delle emorragie post-operatorie in pazienti sottoposti ad interventi cardiaci con by-pass cardiopolmonare. (2005).
43. Efficacia della somministrazione di desmopressina in pazienti con sanguinamento attivo dopo intervento cardiocirurgico. (DESMO-HSR) (2005, farmacologico, randomizzato, multicentrico).
44. Management dei farmaci diuretici nei pazienti con insufficienza renale acuta in trattamento sostitutivo renale ricoverati in terapia intensiva. (2005, randomizzato).
45. Effetto di preconditionamento degli anestetici inalatori. (SEVO-DIP) (2004, farmacologico, randomizzato, monocentrico).
46. Effetto di preconditionamento ischemico dell'anestetico inalatorio desflurane. (2003, randomizzato, multicentrico).
47. Controllo del dolore dopo interventi di prostatectomia radicale. (2003, randomizzato).
48. Circolazione extracorporea in pazienti con ridotta superficie corporea. (2003, randomizzato).
49. Ruolo del Blu di Metilene nel trattamento dell'ipotensione dopo intervento cardiocirurgico. (2003).
50. Confronto tra ossigenatori con e senza fosforilcolina in pazienti sottoposti ad intervento cardiocirurgico con circolazione extracorporea. (2003).
51. Mantenimento della normotermia intraoperatoria in interventi di bypass coronarico a cuore battente: due metodiche a confronto. (2003).
52. Anestesia spinale versus anestesia generale negli interventi di prostatectomia radicale. (2003, randomizzato).
53. Confronto tra due diverse metodiche anestesilogiche per intervento di trombo-endoarterectomia (TEA) carotidea con utilizzo di ropivacaina 0.75%: blocco del plesso cervicale superficiale versus blocco del plesso cervicale profondo. (2002, randomizzato).

54. Valutazione comparativa degli effetti nefroprotettivi di Fenoldopam e Dopamina in chirurgia urologica. (2002, randomizzato).
55. Valutazione comparativa degli effetti nefroprotettivi di Fenoldopam e Dopamina in chirurgia vascolare. (2002, randomizzato).
56. Valutazione comparativa degli effetti nefroprotettivi di Fenoldopam e Dopamina in cardiocirurgia. (2002, randomizzato).

## ALLEGATO **Publicazioni**

### **Publicazioni su riviste scientifiche indicizzate**

D'Amico F, Pruna A, Putowski Z, Dormio S, Ajello S, Scandroglia AM, Lee TC, **Zangrillo A**, Landoni G. Low Versus High Blood Pressure Targets in Critically Ill and Surgical Patients: A Systematic Review and Meta-Analysis of Randomized Controlled Trials. **Crit Care Med.** 2024 Apr 24.

Angelini M, Belletti A, Landoni G, **Zangrillo A**, De Cobelli F, Palumbo D. Macklin Effect: From Pathophysiology to Clinical Implication. **J Cardiothorac Vasc Anesth** 2024

Franchini S, Mette F, Landoni G, Setti E, Ferrante L, Calcaterra B, Pagliula G, Barbieri A, Fontani D, Borio G, Citro M, Farolfi F, Suma G, Monti G, Colombo S, Dagna L, Rovere-Querini P, DE Cobelli F, Castagna A, Ciceri F, **Zangrillo A**, Tresoldi M, Secchi A, Etteri M. Gas-exchange deficit and systemic hypoperfusion in COVID-19 and non-COVID-19 young adult patients with pneumonia. **Panminerva Med.** 2024;**66:27-35**

Vaara ST, Serpa Neto A, Bellomo R, Adhikari NKJ, Dreyfuss D, Gallagher M, Gaudry S, Hoste E, Joannidis M, Pettilä V, Wang AY, Kashani K, Wald R, Bagshaw SM, Ostermann M, Bagshaw SM, Wald R, Adhikari NKJ, Bellomo R, Dreyfuss D, Du B, Gallagher MP, Gaudry S, Hoste EA, Lamontagne F, Joannidis M, Liu KD, McAuley DF, McGuinness SP, Nichol AD, Ostermann M, Palevsky PM, Qiu H, Pettilä V, ...**Zangrillo A**, et al. Regional Practice Variation and Outcomes in the Standard Versus Accelerated Initiation of Renal Replacement Therapy in Acute Kidney Injury (STARRT-AKI) Trial: A Post Hoc Secondary Analysis. **Crit Care Explor.** 2024;**6:e1053**

Kotani Y, Landoni G, Scquizzato T, Mohamed N, Baiardo Redaelli M, Sofia R, Fresilli S, **Zangrillo A**, Azzolini ML. Antiandrogen agents in COVID-19: a meta-analysis of randomized trials. **Minerva Med.** 2024;**115:37-44**

Maimeri N, Marmiere M, Losiggio R, Nardelli P, Baiardo Redaelli M, Fresilli S, D'Amico F, **Zangrillo A**, Hajjar LA, Landoni G. Interventions reducing mortality in COVID-19 patients: a systematic review of randomized evidence. **Minerva Med.** 2024;**115:61-67**

Pruna A, Bonaccorso A, Belletti A, Turi S, Di Prima AL, D'Amico F, **Zangrillo A**, Kotani Y, Landoni G. Methylene Blue Reduces Mortality in Critically Ill and Perioperative Patients: A Meta-Analysis of Randomized Trials. **J Cardiothorac Vasc Anesth** 2024;**38:268-274**

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