

Curriculum Vitae

Personal information

Roberto Alberto De Blasi

Work experience

- Chief of the General Intensive Care Unit, S. Andrea University Hospital via di Grottarossa 1035, Rome (Italy) - start date 03-2006 - present
- Chief of the Neuro Surgery Intensive Care Unit, S. Andrea University Hospital - start date 03-2006 - end date 10-2016
- Chief of the Post-operative Intensive Care Unit, S. Andrea University Hospital - start date 03-2003 - end date 04-2016
- Member of the commissions for the purchase of furnitures, instrumentations and equipments for the Post-operative Intensive Care units and for the General Intensive Care Unit of the S. Andrea University Hospital - Rome (Italy) - start date 02-2003 end date 03-2006
- Doctor Specialist in the Services of Anaesthesia, Intensive Care (VI and II Clinics Surgery, Hyperbaric Medicine and Anti-poison Center) Policlinico Umberto I University Hospital - start date 03-1986 - end date 12-2001

Education and training

- Associate Professor in Anaesthesiology –University of Rome “La Sapienza” Faculty of Medicine and Psychology – Department of Surgical and Medical Science and Translation Medicine - S. Andrea University Hospital, Rome (Italy) - start date 02-2005 end date present
- Director of the Specialization School in Anaesthesiology, Intensive Care Medicine and Pain Therapy – Faculty of Medicine and Psychology – University of Rome “Sapienza” in the S. Andrea University Hospital - Rome (Italy) start date 03-2013, end date 07- 2017
- Professor lectures and teaching of Intensive Care Medicine in the Master of II level in "Healthy Science applied to the Police Service" Police Academy Rome (Italy), start date 01-2013 end date 10-2016
- Director of the Master di I level in "Ultrasound guided vascular accesses", University of Rome "Sapienza" (Italy), start date 02-2017 to present
- Professor lectures and teaching of Intensive Care Medicine in the Master of II level in "Optimization techniques and containment of transfusion support in blood components"
- Research Fellow at the Institute of Anaesthesia, Intensive Care, Pain Therapy and Hyperbaric Medicine - Policlinico Umberto I – University of Rome “La Sapienza”, Rome (Italy) start date 03-1992 end date 02-2005
- 4° Training Course: Management Systems for Continuous Improvement of the Anesthesia, Intensive Care and Intensive Care Units. University of Modena and Reggio Emilia. Modena (Italy) start 11-2005
- Expert Technician at the Institute of Anaesthesia, Intensive Care, Pain Therapy and Hyperbaric Medicine – Policlinico Umberto I – University of Rome “La Sapienza”, Rome (Italy) start date 03-1986 end date 02-1992
- Postgraduate Degree in Anaesthesiology, Intensive Care, Pain Therapy and Hyperbaric Medicine - University of Rome “La Sapienza”, Rome (Italy) date 07-1985
- Degree in Medicine cum laude - University of Rome “La Sapienza” Rome (Italy) - date 07-1982

Additional information

Publications

Validation of the mean systemic filling pressure assessment with preserved arterial blood flow by comparing two methods of calculation. **De Blasi RA**, Finazzi S. Sci Rep. (2021) 4;11(1):15844.

[The impact of different gas mixtures on inflammatory responses in advanced recreational divers](#). Rocco M, Maggi L, Loffredo C, Pelli M, Benedetto PD, Fiorelli S, Simmaco M, **De Blasi RA**. Diving Hyperb Med. (2021) 30;51(2):140-146. doi: 10.28920/dhm51.2.140-146.

[A dynamic Bayesian network model for predicting organ failure associations without predefining outcomes](#). **De Blasi RA**, Campagna G, Finazzi S. PLoS One. (2021) 28;16(4): e0250787. doi: 10.1371/journal.pone.0250787.

[Clinical Characteristics and Outcomes of Patients with COVID-19 Infection: The Results of the SARS-RAS Study of the Italian Society of Hypertension](#). Mancusi C, Grassi G, Borghi C, Ferri C, Muiesan ML, Volpe M, Iaccarino G... **De Blasi RA**...; SARS-RAS Investigator Group. High Blood Press Cardiovasc Prev. (2021) Jan;28(1):5-11. doi: 10.1007/s40292-020-00429-3. Epub 2021 Jan 20.

[Measurement of esophageal pressure: possible limits to its clinical application](#). **De Blasi RA**, Fiorelli S, Minerva Anestesiol. (2020) 86(10):1008-1010. doi: 10.23736/S0375-9393.20.15040-5.

[Age and Multimorbidity Predict Death Among COVID-19 Patients: Results of the SARS-RAS Study of the Italian](#)

[Society of Hypertension.](#) Iaccarino G, Grassi G, Borghi C, Ferri C, Salvetti M, Volpe M; SARS-RAS Investigators. Hypertension. (2020) 76(2):366-372. doi: 10.1161

[PENG block and LIA as a possible anesthesia technique for total hip arthroplasty.](#) Sandri M, Blasi A, **De Blasi RA**. J Anesth. (2020) 34(3):472-475. doi: 10.1007/s00540-020-02768

[Chronic Pain After Lung Resection: Risk Factors, Neuropathic Pain, and Quality of Life.](#) Fiorelli S, Cioffi L, Menna C, Ibrahim M, **De Blasi RA**, Rendina EA, Rocco M, Massullo D. J Pain Symptom Manage. (2020) 60(2):326-335. doi: 10.1016/j.jpainsymman.2020.03.012.

[Ultrasound-Guided Erector Spinae Plane Block Versus Intercostal Nerve Block for Post-Minithoracotomy Acute Pain Management: A Randomized Controlled Trial.](#) Fiorelli S, Leopizzi G, Menna C, Teodonio L, Ibrahim M, Rendina EA, Ricci A, **De Blasi RA**, Rocco M, Massullo D. J Cardiothorac Vasc Anesth. 2020 Sep;34(9):2421-2429. doi: 10.1053/j.jvca.2020.01.026.

Inert gas narcosis in scuba diving, different gases different reactions. Rocco M, Pelaia P, Di Benedetto P, Conte G, Maggi L, Fiorelli S, Mercieri M, Balestra C, **De Blasi RA** Eur J Appl Physiol (2019) 119(1):247-255

Application of BioFire FilmArray Blood Culture Identification panel for rapid identification of the causative agents of ventilator-associated pneumonia. Pulido MR, Moreno-Martinez P, (...), **De Blasi RA**, (...). Clin Microbiol Inf (2018) 24(11):247-255

The prognostic importance of chronic end-stage diseases in geriatric patients admitted to 163 Italian ICU. Poole D, Finazzi S, Nattino G, (...), **De Blasi RA**, (...). Minerva Anestesiologica (2017) 83(12):1283-1293

Should we be aware of autonomic nervous system control before performing head-down laparoscopy? **De Blasi RA**, Rocco M. Minerva Anestesiologica 83(12):1230-2 (2017)

Propofol sedation reduces diaphragm activity in spontaneously breathing patients: Ultrasound assessment. Rocco M, Maggi L, Ranieri G, Ferrari G, Gregoretti C, Conti G, **De Blasi RA**. Minerva Anestesiologica 83(3): 266-73 (2017)

Bedside Assessment of the Microvascular Venous Compartment in Cardiac Surgery Patients With Valvular Diseases Undergoing Cardiopulmonary Bypass. **De Blasi RA**, Romagnoli S, Rocco M. J Cardiothorac Vasc Anesth. 31: 105-114 (2017)

Effects of passive leg raising on microvascular venous compartment in critically ill patients. **De Blasi RA**, Arcioni R, Brancadoro D, Rocco Minerva Anestesiologica. 82(10):1059-68 (2016)

Status epilepticus in critically ill patients. Monica, Rocco M, Caputo C, Fegiz A, Maggi L, **De Blasi RA**. European Medical Journal of Neurology. 3: 96-106 (2015)

Assessing Skeletal Muscle Variations in Microvascular Pressure and Unstressed Blood Volume at the Bedside. **De Blasi RA**, Arcioni R. Microcirculation 9: 606-14 (2014)

Dynamic Bayesian Networks to predict sequences of organ failures in patients admitted to ICU. Sandri M, Berchialla P, Baldi I, Gregori D, **De Blasi RA** Journal of Biomedical Informatics 48: 106-13 (2014)

Immature platelet fraction in predicting sepsis in critically ill patients. **De Blasi RA**, Cardelli P, Costante A, Sandri M, Mercieri M, Arcioni R. Intensive Care Med 39(4): 636-43 (2013)

Severe Sepsis and Septic Shock. De Blasi RA. New England Journal of Medicine 21: 2062-3 (2013)

In vivo effects on human skeletal muscle oxygen delivery and metabolism of cardiopulmonary bypass and perioperative hemodilution. **De Blasi RA**, Tonelli E. Arcioni R., Mercieri M., Cigognetti L., Romano R., Pinto G. Intensive Care Medicine 38: 413-21 (2012)

Critical pneumonia complicating early-stage pregnancy. Mercieri M, Di Rosa R, Pantosti A, **De Blasi RA**, Pinto G, Arcioni R. Anesthesia and Analgesia 110 (3): 852-4 (2010)

Levobupivaine vs racemic bupivacaine in peribulbar anaesthesia: A randomized double blind study in ophthalmic surgery Pacella E, Collini S, Pacella F, Piraino DC, Santamaria V, **De Blasi RA** Eur Rev Med Pharmacological Sciences 14(6): 539-44 (2010)

Tetraplegia following parathyroidectomy in two long-term haemodialysis patients. Mercieri M, Paolini S, Mercieri A, **De Blasi RA**, Palmisani S, Pinto G, Arcioni R. Anaesthesia 64: 1010-6 (2009)

Microcirculatory changes and skeletal muscle oxygenation measured at rest by non-infrared spectroscopy in patients with and without diabetes undergoing haemodialysis. **De Blasi RA**, Luciani R, Punzo G, Arcioni R, Romano R, Sacco F, Menè P. Critical Care 13: Suppl 5 S9-S19 (2009)

Evaluation of neutrophil CD64 expression and procalcitonin as useful markers in early diagnosis of sepsis. Cardelli P, Ferraiironi M, Amodeo R, Tabacco F, **De Blasi RA**, Nicoletti M, Sessa R, Petrucca A, Costante A, Cipriani P. International Journal of Immunopathology and Pharmacology. vol. 21, pp. 43-9 (2008)

Effects of remifentanil-based general anaesthesia with propofol or sevoflurane on muscle microcirculation as assessed by near-infrared spectroscopy. **De Blasi RA**, Palmisani S, Boezi M, Arcioni R, Collini S, Troisi F, Pinto G. British Journal of Anaesthesia. 101 (2): 171-7 (2008)

Ropivacaine and levobupivacaine for bilateral selective ankle block in patients undergoing hallux valgus repair. Palmisani S, Arcioni R, Di Benedetto P, **De Blasi RA**, Mercieri M, Ronconi P. Acta Anaesthesiologica Scandinavica. 52: 841-4 (2008)

Lateral or posterior popliteal approach for sciatic nerve block: Difference is related to the anatomy. **Palmisani S, Ronconi P, De Blasi RA, Arcioni R, Anesthesia and Analgesia** 105 (1):286 (2007)

Lateral popliteal sciatic nerve block: a single injection targeting the tibial branch of the sciatic nerve is as effective as a double-injection technique. Arcioni R, Palmisani S, Della Rocca M, Romanò S, Mercieri M, **De Blasi RA**, Ronconi P, Pinto G. Acta Anaesthesiologica Scandinavica. 51, pp. 115-121 (2007)

Effects of sternotomy on heart lung interaction in patients undergoing cardiac surgery receiving pressure controlled mechanical ventilation. **De Blasi RA**, Palmisani S, Cigognetti L, Iasenzaniro M, Arcioni R, Mercieri M, Pinto G.. Acta Anaesthesiologica Scandinavica. 51: 441-6 (2007)

Combined intrathecal and epidural magnesium sulphate supplementation of spinal anesthesia to reduce postoperative analgesic requirements: a prospective, randomized, double-blind, controlled trial in patients undergoing major orthopedic surgery. Arcioni R, Palmisani S, Tigano S, Santorsola C, Sauli V, Romanò S, Mercieri M,

Masciangelo R, **De Blasi RA**, Pinto G. Acta Anaesthesiologica Scandinavica. 51, 482-9 (2007)

Microvascular dysfunction and skeletal muscle oxygenation assessed by phase-modulation near-infrared spectroscopy in patients with septic shock. **De Blasi RA**, Palmisani S., Alampi D., Mercieri M., Romano R., Collini S. and Pinto G. Intensive Care Med. 31(12):1661-8 (2005)

Monitoring renal oxygen supply in critically-ill patients using urinary oxygen tension. Morelli A., Rocco M., Conti G., Orechchioni A., **De Blasi RA**, Coluzzi F., Pietropaoli P. Anesth Analg 97:1764-8 (2003)

Extracorporeal circulation does not induce intra-alveolar release of Endothelin-1, but only a modest overproduction in pulmonary circulation. Antonelli M., Letizia C., Tritapepe L., Raponi G.M., Ghezzi M.C., Menichetti A., Ruvolo G., Riccioni L., **De Blasi RA** J Cardiovasc Surg 40:487-94 (1999)

A comparison of noninvasive positive pressure ventilation and conventional mechanical ventilation in patients with acute respiratory failure. Antonelli M., Conti G., Rocco M., Bufl M., **De Blasi RA**, Vivino G., Gasparetto A., Meduri GU. N Engl J Med 339:429-435 (1998)

Comparison of two methods of measuring forearm oxygen consumption (VO_2) by near infrared spectroscopy. **De Blasi RA**, Almenrader N., Aurisicchio P., Marco Ferrari. J Biom. Optics 2(2):171-175 (1997)

Exogenous reactive species deplete the isolated rat heart of antioxidants. Vaage J, Antonelli M., Bufl M., Irtun Ö, **De Blasi RA**, Corbucci G.G., Gasparetto A., Semb A.G. Free Radical Biology & Medicine 22:85-92 (1997)

Influence of the treadmill speed/slope on quadriceps oxygenation during dynamic exercise. **Quaresima V**, **Pizzi A**, **De Blasi RA**, **Ferrari A**, **Ferrari M**. Adv Exp Med Biol. 388:231-5 (1996)

Non invasive measurement of brachioradial muscle VO_2 -blood flow relationship during graded isometric exercise **De Blasi RA**, Sfareni R., Pietranico B., Mega A.M., Ferrari M. Adv Exp Med Biol 37:293-298 (1996)

O_2 consumption - O_2 delivery relationship and arteriolar resistance in the forearm of critically ill patients measured by near infrared spectroscopy **De Blasi RA**, Ferrari M., Antonelli M., Conti G., Almenräder N., Gasparetto A. Shock 5:319-325 (1996)

Paralysis has no effect on chest wall and respiratory system mechanics of mechanically ventilated, sedated patients Conti G., Vilardi V., Rocco M., **De Blasi RA**, Lappa A., Bufl M., Antonelli M., Gasparetto A. Int. Care Med. 21:808-812 (1995)

Customised optrode holder for clinical near-infrared spectroscopy measurements Quaresima V, **De Blasi RA**, Ferrari M. Med & Biol Eng & Comput 33:627-628 (1995)

Mechanical ventilation of patients with acute exacerbation of chronic respiratory failure Conti G., Lappa A., **De Blasi RA**, Gasparetto A. Réan Urg 4:101-105 (1995)

Control of post anaesthetic shivering with nefopam hydrochloride in mildly hypothermic patients after neurosurgery. Rosa G., Pinto G., Orsi P., **De Blasi RA**, Conti G., Sanita' R., La Rosa I., Gasparetto A. Acta Anaesthesiol Scand 39:90-95 (1995)

A new device to remove obstruction from endotracheal tubes during mechanical ventilation in critically ill patients. Conti G., Rocco M., **De Blasi RA**, Lappa A., Antonelli M., Bufl M., Gasparetto A. Int Care Med 20:573-576 (1994)

Evaluation of respiratory system resistance in mechanically ventilated patients: the role of the endotracheal tube. Conti G., **De Blasi RA**, Lappa A., Ferretti A., Bufl M., Gasparetto A. Int Care Med 20: 421-424 (1994)

Risk factors for early onset pneumonia in trauma patients. Antonelli M., Moro ML., Capelli O., **De Blasi RA**, D'Errico RR., Conti G., Bufl M. and Gasparetto A. Chest 105: 224-228 (1994)

Non-invasive measurement of forearm blood flow and oxygen consumption by near infrared spectroscopy. **De Blasi RA**, Ferrari M., Natali A., Conti G., Mega A. and Gasparetto A. J Appl Physiol 76: 1388-1393 (1994)

Non invasive measurement of forearm oxygen consumption during exercise by near infrared spectroscopy. **De Blasi RA**, Alaviggi I., Cope M., Elwell C., Ferrari M. Adv Exp Med Biol 345: 685-692 (1994)

Propofol induces bronchodilatation in mechanically ventilated chronic obstructive pulmonary disease (COPD) patients. Conti G., Dell' Utri D., Vilardi V., **De Blasi RA**, Pelaia P., Antonelli M., Bufl M., Rosa G. and Gasparetto A. Acta Anaesthesiol Scand 37: 105-109 (1993)

Non invasive measurement of human forearm oxygen consumption by near infrared spectroscopy. **De Blasi RA**, Cope M., Elwell C., Safoue F. and Ferrari M. Eur J Appl Physiol, 67: 20-25 (1993)

Towards human brain near infrared imaging: time resolved and unresolved spectroscopy during hypoxic hypoxia. **Ferrari M**, **De Blasi RA**, **Safoue F**, **Wei Q**, **Zaccanti G**. Adv Exp Med Biol. 333: 21-31 (1993)

Hemodynamic modifications during Hyperbaric Oxygen Therapy. Pelaia P., Rocco M., Conti G., **De Blasi RA**, Bufl M., Antonelli M. and Bortone C. J Hyperbaric Medicine 7: 229-237 (1992)

Oxygen consumption of human skeletal muscle by near infrared spectroscopy during tourniquet-induced ischemia in maximal voluntary contraction. **De Blasi RA**, Cope M. and Ferrari M. Adv Exp Med Biol 317: 771-777 (1992)

Muscle oxygenation by fast near infrared spectrophotometry (NIRS) in ischemic forearm. **De Blasi RA**, Quaglia E., Gasparetto A., Ferrari M. Adv Exp Med Biol 316: 163-172 (1992)

A fiberoptic system for the evaluation of airways pressure in mechanically ventilated patients. **De Blasi RA**, Conti G., Antonelli M., Bufl M., Gasparetto A. Int Care Med 18: 405-409 (1992)

Early prediction of successful weaning during pressure support ventilation in chronic obstructive pulmonary disease patients. Conti G., **De Blasi RA**, Pelaia P., Benito S., Rocco M., Antonelli M., Bufl M., Mattia C., Gasparetto A. Crit Care Med 20(3): 366-371 (1992)

Tumor Necrosis Factor in serum and in bronchoalveolar lavage of patients at risk for the Adult Respiratory Distress Syndrome. Raponi G., Antonelli M., Gaeta A., Bufl M., **De Blasi RA**, Conti C., D'Errico RR., Mancini C., Filadoro F. and Gasparetto A. J Critical Care 7(3): 183-188 (1992)

Time-resolved spectroscopy of human forearm. Ferrari M., Wei Q., Carraresi L., **De Blasi RA**, Zaccanti G. J Photochem Photobiol 16: 141-153 (1992)

Skeletal muscle oxygenation monitoring by near infrared spectroscopy. **De Blasi RA**, Quaglia E. and Ferrari M. Biochem Int 25: 241-248 (1991)

Influence of acetyl-L-carnitine infusion on haemodynamic parameters and survival of circulatory-shock patients. Gasparetto A., Corbucci GG., **De Blasi RA**, Antonelli M., Bagiella E., D'Iddio S., Trevisani C. Int J Clin Pharm Res XI(2)

83-92 (1991)

Projects

Owner application of an Industrial Patent n.102017000060473 Italy entitled: Machine for the non-invasive and contemporary measurement of perfusion and water content in biological tissues - 1/06/2017 - Sapienza University of Rome (Italy)

Referent and coordinator for the S. Andrea University Hospital (Rome - Italy) of the European project of clinical experimental research: Phase IV, randomized, open label, multicentre and non-inferiority trial to compare safety and efficacy of colistin vs meropenem IV for empirical treatment of ventilator-associated pneumonia. start date 03-2014 end date 10-2016

Referent and coordinator for the S. Andrea University Hospital (Rome - Italy) of the European Trial of clinical research: "The use of MRI derived biomarkers to predict consciousness recovery in TBI, SAH, ICH and HIE patients" start date 02-2013 end date 10-2017

Referent and coordinator for the S. Andrea University Hospital of the pharmacovigilance project: "Analysis of the reality related to nosocomial infections in intensive care of Rome" start date 02-2010 end date 10-2012

Referent and coordinator of the clinical experimental research project on the development of the near-infrared spectroscopy technology for the quantification of the water content in tissues in collaboration with the NIROX srl Company – Optoelectronic Systems Spin-Off - start date 03-2010 to present

Chief of the clinical research on tissue oxygenation and microcirculation in patients with renal failure in collaboration with the Dept. of Nephrology - Faculty of Medicine and Psychology – University of Rome "Sapienza" - start date 2005 to present

Referent and coordinator of the experimental research on the quantitative evaluation of the oxygenation in tissue by an instrumentation of time resolved near-infrared spectroscopy donated by the National Academy of National Science of XIL (Italy) start date 02-1998 end date 12-1999

Referent for Italy of the clinical research "Near Infrared Spectroscopy Imaging" of the Concerted Action of Commission of the European Communities: Near Infrared Spectroscopy and Imaging for Non Invasive Monitoring of the Oxygenation and Haemodynamic of Tissues. start date 02-1992 end date 11-1996

Memberships

University project (ex share 60%) ref. G107941 "A hypothesis on the molecular basis of anesthesia: the mechanism of action of volatile anesthetics"

"Contribution to other Interventions" of the CNR for study stay at the "Department of Medical Physics and Bioengineering, University College London" for the measurement of oxygenation of Hb and Mb in human skeletal muscle at rest and under stress by near-infrared spectroscopy and spectroscopic nuclear magnetic resonance

"Contribution to other interventions" of the CNR (pos. 121.10729) for the learning of quantization methods of concentration variations of tissue hemoglobin by near-infrared spectrophotometry carried out at the "Department of Medical Physics and Bioengineering, University College London

Research contribution of the "Anna Villa Rusconi" Foundation, for study on near infrared spectroscopy at the "Department of Medical Physics and Bioengineering, University College London

Other Relevant Information