

## CURRICULUM VITAE

GIOVANNI (GIANCARLO) VESCE

Academic titles: Dr. vet. med., DVM; professor.

Professional title: professor of Veterinary Anesthesia.

Present position: full professor of veterinary anesthesia, Department of Veterinary Medicine and Animal Productions, University of Napoli Federico II, Italy (2000 to present).

Past position: associate professor of veterinary anesthesia, Department of Veterinary Medicine and Animal Productions, University of Napoli Federico II (1992-2000).

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Date, Place of Birth: May 5, 1951, Napoli, Italy

Marital Status: married

Languages: fluent in English and Italian.

### Education:

- Summa cum Laude degree in Veterinary Medicine: University of Napoli, March 1974.
- Instructor of veterinary surgery: University of Napoli, March 1974 to November 1974.
- Resident, Veterinary Anaesthesia, School of veterinary medicine of the University of Pennsylvania (Philadelphia) 1976 -1978.

### Academic appointments at the School of Veterinary Medicine of the University of Napoli:

1975 -1980 Postdoctoral fellow of Veterinary Surgery;

1980 -1987 Researcher of Veterinary Surgery;

1987 -1992 Associate Professor of Surgical Pathology;

1987 -1992 Substitute Professor of Veterinary Anesthesiology;

1992 – 2000 Associate Professor of Veterinary Anesthesiology;

2000 to date Full Professor of Veterinary Anesthesiology;

Director of postdoctoral course in Anesthesia, Resuscitation and Intensive Care of Companion Animals (ARTIAC).

Lecturer at postdoctoral courses in: Laboratory animal Medicine; Veterinary surgery; Small animal orthopedic surgery; Small animal cardiology.

1993 – 1999 Substitute Professor of Surgery and of Veterinary Anesthesia at the School of Veterinary Medicine of the University of Teramo.

1997-2012 Founding member and Leading Mentor of the PhD in Veterinary Anesthesiology - University of Messina, Italy.

#### Membership and Public Relation activities:

- Società Italiana delle Scienze Veterinarie (S.I.S.Vet.).
- Association of Veterinary Anaesthetists of Great Britain and Ireland (AVA).
- American Society of Anesthesiologists (ASA)
- Society of Anesthesia and Sleep Medicine (SASM)
- Società Italiana di Anestesia, Analgesia, Rianimazione e Terapia Intensiva (SIAARTI)
- Società Culturale Italiana Veterinari per Animali da Compagnia (*Honorary member* SCIVAC).
- Associazione Veterinari Umbri Liberi Professionisti (*Honorary member* AVULP).
- Società Italiana di Chirurgia Veterinaria (SICV).
- Resident member of the Academia Pontaniana in Napoli.
- European Medical Research Council (EMRC), High level expert Animals in biomedical research.
- Centro Interuniversitario di Ricerca Bioetica – Napoli.
- Ordine dei Medici Veterinari della Provincia di Avellino (scientific committee president).
- Ethical Committee for the protection of animals used for experimental and other scientific purposes at the University of Napoli;
- Ethical Committee for animal use in Experimental procedures (CESA) at the A.O.R.N. A. Cardarelli in Napoli (1990-2014).
- Ethical Committee of the Istituto Tumori di Napoli, Fondazione G. Pascale.
- Founding member and Coordinator of the SIAARTI Study Group in Animal Anesthesia (SIAARTIVet)
- Member of the Academic Senate of the University of Napoli Federico II (2003 - 2009).
- Coordinator of the agreement of cooperation between the University of Michigan and the University of Napoli Federico II (2007-2014).
- Coordinator of the agreement of cooperation between the University of Pennsylvania and the University of Napoli Federico II (2007 to date).
- Coordinator of the agreement of cooperation between the University of Tennessee, Knoxville and the University of Napoli Federico II (2015).

Holding visiting appointments at the Medical School of the University of Napoli Federico II and at cultural Institutions and professional associations in Italy and abroad, also as invited lecturer.

Major research interests: physiopathology of anaesthesia in humans and animals; pain and analgesia in animals; effects of anesthesia on sense organs; sleep, consciousness, anesthetic depth.

#### Publications:

Acupuncture and pharmacopuncture are as effective as morphine or carprofen for postoperative analgesia in bitches undergoing ovariohysterectomy. Acta Cir. Bras. vol.30 no.12 São Paulo Dec. 2015 - S.P.L Luna, I. Di Martino, S.E.R. de Sá Lorena, M.L. Buffo de Capua, A.F. da Maia Lima, B.P. Costa Rodrigues dos Santos, J. Tabarelli Brondani, G. Vesce.

Clinical implications of sedation in animals. Vesce G. Minerva Anestesiologica, Vol. 81, 16, Supplement 1 to No. 7 July 2015, One anesthesia: focus on sedation. Naples, May 25 - 26, 2015.

Comparison of intranasal and intramuscular administration of dexmedetomidine in healthy dogs. Micieli F, Santangelo B, Reynaud F, Marino F, Mirra A, Napoleone G, Della Valle G,

Vesce G. Proceedings LXIX SISVET Conf., Perugia, 15-17/6/2015, p. 196-197. ISBN 978-88-909002-0-7.

Transnasal administration of a combination of dexmedetomidine, midazolam and butorphanol produces deep sedation in New Zealand white rabbits. Santangelo, B., Micieli, F., Mozzillo, T., Reynaud, F., Marino, F., Auletta, L., Vesce, G. *Veterinary Anaesthesia and Analgesia*, 2015 doi:10.1111/vaa.12278.

High resolution echocardiographic evaluation of hemodynamic effects of anesthetics in mice. Gargiulo S., Gramanzini M., Gisonni P., Vesce G., Santangelo B., Brunetti A., Salvatore M. *Proceedings European Molecular Imaging Meeting, EMIM*, pag 259- 260, Antwerp, Belgium 4-6 Giugno 2014

Rabbit deep sedation and plasma concentrations after transnasal administration of a dexmedetomidine butorphanol and midazolam combination. Santangelo B., Micieli F., Marino F., Reynaud F., Cassandro P., Canfora A., Petrella R., Borriello R. *Proceedings LXVIII convegno SISVET*, Pisa, 16-18 Giugno 2014, p. 100.

Intranasal administration of fentanyl in dogs for the treatment of severe postoperative pain. Micieli F., Santangelo B., Mirra A., Napoleone G., Vesce G. Muzj P., Vesce G. *Proceedings LXVIII convegno SISVET*, Pisa, 16-18 Giugno 2014, p. 95.

Effects of some anesthetic agents on skin microcirculation evaluated by laser Doppler perfusion imaging in mice. - Sara Gargiulo, Matteo Gramanzini, Raffaele Liuzzi, Adelaide Greco, Arturo Brunetti, Giancarlo Vesce - *BMC Veterinary Research* 12/2013; 9(1):255.

Rats with features of metabolic syndrome exhibit sex-specific differences in nociception. Michael Sternberg, Alessandro Mirra, Christopher J., Watson, Lauren Koch, Steve Britton, Giancarlo Vesce, Ralph Lydic. - 38th Annual Regional Anesthesiology and Acute Pain Medicine Meeting, 2-5 maggio 2013 Boston, Massachusetts.

Mice Anesthesia, Analgesia, and Care, Part I: Anesthetic Considerations in Preclinical Research - Sara Gargiulo, Adelaide Greco, Matteo Gramanzini, Silvia Esposito, Andrea Affuso, Arturo Brunetti, Giancarlo Vesce - *ILAR journal / National Research Council, Institute of Laboratory Animal Resources* 09/2012; *ILAR Journal*(54).

Mice Anesthesia, Analgesia, and Care, Part II: Anesthetic Considerations in Preclinical Imaging Studies. - Sara Gargiulo, Adelaide Greco, Matteo Gramanzini, Silvia Esposito, Andrea Affuso, Arturo Brunetti, Giancarlo Vesce - *ILAR journal / National Research Council, Institute of Laboratory Animal Resources* 01/2012; 53(1):70-81.

Effect of Anesthetic Drugs on Vestibular Evoked Myogenic Potential Recording. Gaetano Motta Giuliano Sequino, Antonella Menafro, Giancarlo Vesce, Giuseppina Marcuccio, Antonello Brancaccio, Arturo Lecce and Domenico Testa. *The Open Otorhinolaryngology Journal* 1874-4281.

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Epidural analgesia with dexmedetomidine, alone or in combination with ropivacaine, in dogs undergoing tibial plateau leveling osteotomy (TPLO). V Rondelli, E Zini, P Morabito, G Vesce, SK Ringer, R Bettschart Wolfensberger (2013) *Veterinary Anaesthesia and Analgesia*40, 5, 1 [575581]

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Analgesic refinement of painful experiments in laboratory animals. -Vesce G.- Proceedings of the Naples Pain Conference (NPC) Naples May 16-19th 2010 p. 139-142.

Dexmedetomidine chemical restraint of two raptor species undergoing inhalation anaesthesia. B Santangelo, D Ferrari, I Di Martino, A Belli, C Cordella, A Ricco, S Troisi, G Vesce - Veterinary Research Communications 08/2009; 33. 1:209-11.

Effetti analgesici ed emostatici perioperatori dell'agopuntura in cagne sottoposte ad ovarioisterectomia.- Ferrari D., Luna S.P.L., Lima A.F., Marucio R., Papparotto T., Takahira R.K., Vesce G.- Obiettivi e documenti veterinari (2006), XXVII 11-20.

Anaesthesia for myelographic examination in small animals: a retrospective study. G. Vesce , L. D'avino, S. Esca, A. Ricco, C. Filippi, A. Belli, D. Ferrari (2006)- Proceedings of the 12th Annual Conference EAVDI European Association of Veterinary Diagnostic Imaging. p.52.

Use of medetomidine and its antagonist atipamezole for chemical restraint of large feral cats: report of five cases. - C. Filippi, A. Belli, A. Ricco, L. Davino, D. Ferrari, F. Rambaldi, Vesce G. (2005)- International Symposium on Wild Fauna" Slovakia. (vol. 1, pp. 37).

Chemical restraint and anaesthesia of birds: two case reports. Vesce G. (2004) Proceedings of the III International Symposium on Wild Fauna, pag. 286-289.

Principles and practice of fish anaesthesia "a long lasting technique in teleosts. Pagano V., Cocchia N., Vesce G. (2004) Proceedings of the III International Symposium on Wild Fauna, pag. 290-295.

Considerazioni di neuroanestesia e controllo del dolore perioperatorio nei piccoli animali. Boll. AIVPA vol. XL, 31 - 39, 2001.

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Trattamento anestesilogico del paziente con insufficienza respiratoria acuta. Boll. AIVPA vol. XL, n° 3: 55 - 60, 2001.

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Il dolore perioperatorio negli animali da laboratorio. Vesce G. (1996) 3° Simposio nazionale AISAL: "Sperimentazione Animale: Aspetti Scientifici e gestionali". 88-93

Olfactory transduction mechanisms in sheep. E Fabbri, M E Ferretti, M Buzzi, R Cavallaro, G Vesce, C Biondi - Neurochemical Research 07/1995; 20(6):719-25.

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- Influence of feeding supplementation on goats grazing behavior A. Bordi, G. De Rosa, F. Napolitano, G. Vesce, R. Rubino. *Cahiers Options Méditerranéennes*, 5:57-68, 1994
- Crossing of the placental barrier by propofol in small ruminants - G. Vesce, A. Lucisano *Veterinary Anaesthesia and Analgesia* 01/1991; 18:167-179.
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- A computerized system for rapid evaluation of pulmonary epithelial permeability in dogs. Sofia M., Muto P., Molino A., De Simone F. Mormile M., Vesce G., Salvatore M., Carratù L. *Proc. Meeting Italian Chapter American College of Physicians "Advances in pneumology and cardiology"* 471-475.1987
- Megaesofago da quarto arco aortico persistente nel gatto. Lamagna F., Vesce G., Potena A.: *Praxis Vet.*, vol. 6, n. 3, 1985 (19-21).
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- Il collasso tracheale nel cane: diagnosi endoscopica. Vesce G. *Praxis Veterinaria* 5, 1, 1984 7-9.
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L'analgesia epidurale continua nel cane. Acta Medica Veterinaria 27, 1-2, 1981. Vesce G., Potena A., Lorizio R.

Lengthening of the rectus muscles of eye in the rabbit using polymeric materials. Proc. 5th Nordic Meeting on Medical and Biological Engineering - Linkoping, Sweden 516, 1981. In coll. con Migliaresi C., Nicolais L., De Rosa C., Calabrò S., D'angelo.

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Equilibri endocrini a fine gravidanza e loro influenza nel determinismo delle distocie nella bovina. Minoia P. Vesce G. 1979, Scienza e Tecnica Agraria 19, 2-3.

Schwannoma solitario nel cane. Potena A. Vesce G. 1979, Acta Medica Veterinaria 25, 1-2, 1-10.