

# MD Gianfranco Kim Innocente Ligarotti

29th Feb 1976 Milano, Italy	
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<b>Medical Order</b> OMCeO Milano from 14.07.2003 Registration n°38367 via Lanzone 31 Milano 0286915256	<b>Medical Superior Officer (Major-OF3) of Italian Air Force at Institute of Aerospace Medicine</b> Viale Aviazione 1b Milano 0273902909
<b>General Medical Council GB Ref:</b> 7480160.  <b>Degree in Medicine and Surgery at “Università degli Studi di Milano Policlinico” in 2002,</b> Final grade 110/110 cum Laude (First Class Honours) Thesis in Neurosurgery at National Institute of Neurology Carlo Besta of Milan with Prof G.Broggi e Prof G. Villani. “Quality of life evaluation in spasticity treated with intrathecal baclofen” .	<b>Lecturer in the First Level Master of Osteopathic Sciences</b> ICOM-Univ. Bicocca
<b>Specialist in Neurosurgery :</b> Final grade 70/70 cum Laude (First Class Honours) University of Milan, IRCCS Istituto Neurologico C.BestaTutor Prof. A. Franzini MD (Angelo.Franzini@istituto-bestait ; bsvjf@tin.it ) School of Specialization in Neurosurgery of Milan Dir. Prof M. Zavanone (specialitanurochirurgia@unimi.it) Via Sforza 35 Milano 0255035502	<b>Field of interest:</b> Trauma. Vascular. Skull base. Endoscopy. Functional neurosurgery (DBS-Pain-Epilepsy).  <b>Languages:</b> Italian, English, French

## Previous professional experience

Lecturer in "Neurosurgery Elements" in the First Level Master of Osteopathic Sciences, organised by the University of Milan Bicocca with ICOM (International College Ostheopatic Medicine) ICOM LTD Via G. Matteotti, 62 20092 Cinisello Balsamo (MI) tel 02 61298997.  
( 2015, 2016, 2017, 2018 )

JSDH UHB-QE University Hospital Queen Elisabeth Birmingham UK  
General Neurosurgery, Functional Neurosurgery and Neurotrauma  
(February-June 2016)

Ambulance Emergency Physician in Territorial Emergency Response System of Verona 118 with CRI and S.O.S. Sona Association, P.zza Vittoria 10 Sona (VR) 0456081330  
(June 2005-Dec 2015)

Chairman of advanced traumatological and surgical outpost "ROLE 1 augmented" Herat, Afghanistan.  
( July- September 2013 )

Flight Doctor, Medical Flight Transport Coordinator and Doctor on call for Allianz Global Assistance International SA , Piazzale Lodi 3, 20137 Milano  
(2013-2014)

Flight MD for Air Ambulance srl  
( January 2011 - Dec 2011)

Neurosurgeon Resident at Military General Hospital Celio of Rome , La Sapienza University of Rome  
(2009-2010)

Chief of Emergency Section of the Air Force Principal Infirmary  
of Villafranca Verona.( 2006-2009 )  
Military Airport of Villafranca Via Caluri 1 Verona

Medical Officer of Task Force 45, Farah, Afghanistan.  
( July 2009 - October 2009 )

Medical Officer of advanced territorial medical and surgical outpost "ROLE 1 augmented" and Aeromedical Evacuation Team Leader , during earthquake of the town of L'Aquila. ( April 2009 - June 2009 )

Chief of advanced territorial medical and surgical outpost "ROLE 1 augmented" and aeromedical evacuation team leader, Herat, Afghanistan. (October 2007- January 2008 )

Surgeon of XXII Antarctic Expedition with P.N.R.A [Antarctic National Research Project] , Concordia Base, MZS Base and Research Ship Italica, Antarctica.  
( November 2006 - February 2007 )

Responsible of ER in the Aeromedical Staging Unit , 6° ROA Tallil Military Airport, Iraq.  
( June 2006 - July 2006 )

Chief of advanced territorial medical and surgical outpost "ROLE 1 augmented", Vlore, Albania.  
( August 2003 - October 2003 )

Responsible of Emergency Nucleus and responsible of the  
Hygiene-Prophylaxis Nucleus , Air Force Sanitary Service of  
RMS, Villafranca Verona.  
( 2003-2006 )

## Publications

### Pubmed:

#### **Unruptured Versus Ruptured AVMs: Outcome Analysis from a Multicentric Consecutive Series of 545 Surgically Treated Cases.**

World Neurosurg. 2017 Dec 21. pii: S1878-8750(17)31922-8. doi: 10.1016/j.wneu.2017.11.003. [Epub ahead of print]  
PMID: 29155066

#### **Retrosigmoid approach: investigating the role of a C-shaped skin incision and muscle flaps in improving functional outcome and to reduce postoperative pain.**

World Neurosurg. 2017 Dec 16. pii: S1878-8750(17)32166-6. doi: 10.1016/j.wneu.2017.12.050. [Epub ahead of print]  
PMID: 29258939

#### **Predicting complexity of tumor removal and postoperative outcome in patients with high-grade gliomas.**

Neurosurg Rev. 2018 Jan;41(1):371-373. doi: 10.1007/s10143-017-0921-1. Epub 2017 Oct 18. No abstract available.  
PMID: 29046996

#### **Evolution of Prophylaxis Protocols for Venous Thromboembolism in Neurosurgery: Results from a Prospective Comparative Study on Low-Molecular-Weight Heparin, Elastic Stockings, and Intermittent Pneumatic Compression Devices.**

World Neurosurg. 2018 Jan;109:e510-e516. doi: 10.1016/j.wneu.2017.10.012. Epub 2017 Oct 13.  
PMID: 29033376

#### **Risk of Deep vein thrombosis in neurosurgery: State of the art on prophylaxis protocols and best clinical practices.**

J Clin Neurosci. 2017 Nov;45:60-66. doi: 10.1016/j.jocn.2017.08.008. Epub 2017 Sep 7. Review.  
PMID: 28890040

#### **Enhancing contrast agents and radiotracers performance through hyaluronic acid-coating in neuroradiology and nuclear medicine.**

Hell J Nucl Med. 2017 May-Aug;20(2):166-168. doi: 10.1967/s002449910558.  
PMID: 28697194

#### **Hydrocephalus: an underrated long-term complication of microvascular decompression for trigeminal neuralgia. A single institute experience.**

Acta Neurochir (Wien). 2016 Nov;158(11):2203-2206.  
PMID: 27522357

#### **Traumatic injuries to the cranivertebral junction: a review of rare events**

Debernardi A, D'Aliberti G, Talamonti G, Villa F, Piparo M, Ligarotti GK, Cenzato M.  
Neurosurg Rev. 2013 Aug 9. [Epub ahead of print]  
PMID: 23928657 [PubMed ]

#### **A singular case of neurosyphilis manifesting through a meningoarterial chronic inflammatory process in association with the occurrence of two aneurysms involving the distal A2 segment of both anterior cerebral arteries. A case report and review of literature.**

Bagatti D, Mazibrada J, Ligarotti GK, Nazzi V, Franzini A.  
World Neurosurg. 2015 Nov 5. pii: S1878-8750(15)01503-X. doi: 10.1016/j.wneu.2015.10.085. [Epub ahead of print] No abstract available.  
PMID: 26548820

**Postoperative granulomas versus tumor recurrence: PET and SPET scans as strategic adjuvant tools to conventional neuroradiology.**

Ganau M, Syrmos N, Ligarotti GK, Ganau L, Prisco L.  
Hell J Nucl Med. 2012 Sep-Dec;15(3):184-7. doi: 10.1967/s002449910051. Epub 2012 Oct 25.  
PMID: 23106048 [PubMed - indexed for MEDLINE]

**Unusual behaviour of a pineal germinoma mimicking neurosarcoidosis and metastasing along endoscopic route**

Talamonti G, Ligarotti GK, Bramerio M, Imbesi F.  
BMJ Case Rep. 2013 Aug 2;2013. doi:pii: bcr2013200278. 10.1136/bcr-2013-200278.  
PMID: 23912659 [PubMed]

**Management of Gliomas: Overview of the Latest Technological Advancements and Related Behavioral Drawbacks.**

Ganau L, Paris M, Ligarotti GK, Ganau M  
Behav Neurol. 2015;2015:862634. doi: 10.1155/2015/862634. Epub 2015 Aug 9.  
PMID: 26346755 [PubMed - in process] PMCID: PMC4546744

**Abstracts published in the EANS Course Training Book 2015**

**Post traumatic movement disorders: clinical and kinematic long term follow up of patients treated with DBD for tremor for more than 9 years.** submitted to EANS commission for EANS Course 2015

**Abstracts in peer-reviewed journals indexed on Scopus**

**Incidence and Management of Post-Traumatic Hydrocephalus in a series of 144 consecutive patients.**  
*Brain Injury* 2016

**Toward non-invasive intracranial pressure monitoring : preliminary results from a phase II/a clinical trial *MITAT*: Minimally Invasive therapy and allied technologies 2012 (IF: 1.2)**

**Epidural lipomatosis: an indolent cause of lumbar stenosis. A multicentric review.**  
*Neurosurg Focus* 2016

**Parasitic Spinal Infections: differential diagnosis and management strategies.** *Neurosurg Focus* 2016

**Orphenadrine citrate and paracetamol: a new option of chronic low back pain syndrome.**  
*Neurosurg Focus* 2016

**Abstracts selected for presentation at EANS Course 2013 and published in the Course training book**

**Role of a combined “second line” medical therapy in patients with failed surgical treatment for trigeminal neuralgia**

Gianfranco K. Ligarotti MD; Lara Prisco MD, MSc; Mario Ganau MD, MSBM, PhD.

**Book contribution:**

**Commercializing Nanomedicine: Industrial Application, Patents and Ethics. Coauthor of Chapter 1**  
“Nanomedicine: the dawn of a new era”. Escoffier-Ganau-Wong (eds.) Copyright 2015 by Pan Stanford Publishing Pte Ltd, [www.panstanford.com](http://www.panstanford.com)

**Abstracts and oral presentation presented at SINCh National Congress 2015:**

**Predictive role of intraoperative neurophysiological monitoring in patients undergoing decompression and neurolysis of the ulnar nerve**

[Ruolo predittivo del monitoraggio neurofisiologico intraoperatorio nei pazienti sottoposti ad intervento di decompressione e neurolisi del nervo ulnare]

G.K. Ligarotti, V. Nazzi, A. Franzini.

**Abstracts presented at the 25th Conference of The International Society for Medical Innovation, iSMIT 2013, Baden-Baden, Germany:**

**Toward non-invasive intracranial pressure monitoring: preliminary results from a Phase 2/a clinical trial**

M.Ganau,R.I. Foroni, L. Prisco, A.Lombardo G.K. Ligarotti, G. Weimberg et al.(Published on Minim Invasive Ther Allied Technol Suppl 1 2013 ISS 1364-5706)

**Presentations and Posters in International Meetings**

**COX-Inhibitors and Neuropathic Pain Killers in non-professional athletes: rationale for prescription and drawbacks. AANS/CNS Congress - Phoenix 2013**

**Promises of accuracy of non invasive intracranial monitoring: are we ahead of the curve yet? NCS Annual Meeting - Seattle 2014**

**Advances in Spinal Surgery: A Biomaterial Approach. AANS/CNS Congress - Orlando 2016**

**Deep Vein Thrombosis Prophylaxis in Traumatic Brain Injuries: analysis of a multicentric dataset. IBIA 2016**

**Abstracts presented at SINCh National Congress 2013:**

**Brainstem cavernomas**

M. Cenzato, M. Coppini, G.K. Ligarotti, M. Piparo, A. Debernardi, R. Stefini, C. Ambrosi.

**Microarteriovenous malformations, a single centre experience.**

M. Cenzato, G.K. Ligarotti, L. Quilici, A. Debernardi, G. D'Alberti, M. Piparo, G. Talamonti, M. Coppini, E. Boccardi.

**MCA-Azygos anterior cerebral artery bypass using the contralateral MCA and radial artery as an interposition graft for the treatment of complex ACA aneurysms.**

M. Cenzato, G.K. Ligarotti, M. Piparo, A. Debernardi, L. Quilici, M. Coppini, E. Boccardi.

**Brain arteriovenous malformations, a multicentre experience.**

M. Cenzato, F.Tartara, R. Stefini, R.Boccaletti, G. Pavesi, G.K. Ligarotti, E. Giombelli, A. Lanterna, C.Bortolotti, C. Sturiale, F. Calbucci, A Cardia, E.Crobeddu, F. Acerbi, A. Ducati, M. Fontanella, G. D'Alberti, M. Piparo, E. Boccardi.

## On field experience

### **Surgeon and Researcher. XXII Antarctic Expedition**

with P.N.R.A FRENCH - ITALIAN Base Concordia Dome C, Antarctica. ( December 2006 - January 2007 )

## Neurosurgical Courses

### **THE 15th HELSINKI LIVE DEMONSTRATION COURSE in Operative Microneurosurgery**

( Prof.Juha Hernesniemi ; Prof. Michael T. Lawton ; Prof. Vinko Dolenc ; Prof. Ali F. Krisht ; Prof. Rokuya Tanikawa )

### **INTRAOPERATIVE ULTRASONOGRAPHY in NEUROSURGERY, practical intraoperative course. (contrast enhanced ultrasound - virtual navigation - elastosonography) Sept 2014**

Fondazione IRCCS Istituto Neurologico C.Besta ( F.Di Meco MD & F.Prada MD)

**Comprehensive Clinical Neurosurgery Review Course, Krakow 2013 and 2014 ( Nabeel S. Alshafai MD)**

### **EANS EUROPEAN NEUROSURGICAL TRAINING COURSE CYCLE ( 2012- 2015)**

### **F.R.I.E.N.D.S.S.C. SKULLBASE DISSECTION COURSE 2013 Boras Sweden**

( Luc De Waele MD of Ghent Belgium, Iver Arne Langmoen MD of Oslo University Norway, Juna Ohman MD of Tampere University Finland, Peter Siesjo of Skanes Lund University Sweden , Mikael Svensson of Karolinska University Sweden )

### **F.R.I.E.N.D.S.S.C. BASIC CRANIAL APPROACH DISSECTION COURSE 2012 Boras Sweden**

( Luc De Waele MD of Ghent Belgium, Iver Arne Langmoen MD of Oslo University Norway, Juna Ohman MD of Tampere University Finland, Peter Siesjo of Skanes Lund University Sweden )

### **“Fukushima Style” ITALIAN SKULL BASE DISSECTION COURSE 2012 Menaggio ( R. Tanikawa MD, T. Sameshima MD, M Cenzato MD, P. Ferroli MD )**

### **CERVICAL SPINE SURGERY ADVANCED DISSECTION COURSE 2012 Menaggio ( C. Lamartina MD, A. Ducati MD )**

### **XI CSRS-ES “Hands on cadaver course” of Cervical Spine Research Society. European Section 2012 Barcellona ( P. Bancel MD, A. Jackowski MD )**

### **TRANSCRANIAL and TSA DOPPLER COURSE XIII 2012 Lecco ( F. Lusenti MD )**

### **III TEORIC-PRACTICAL COURSE OF BRAIN AND VENTRICULAR ENDOSCOPY SINch University of Pavia ( D. Locatelli MD, G.Talamonti MD )**

### **XV SiNch COURSE FOR YOUNG NEUROSURGEONS focused on neuro-traumatology 2012 Pomezia ( F. Servadei MD )**

### **MITOSI i.e. Milano Torino Spine Instruction Course for Residents 2012 Milano Istituto Galeazzi ( C. Lamartina A. Ducati )**

### **NEUROMONITORING LEARNING CENTRE COURSE focused on intracranial pressure monitoring. 2012 Monza ( G. Citerio MD )**

**SURGICAL APPROACHES AT BRAINSTEM PRE-CONGRESSUAL PRACTICAL DISSECTION COURSE  
SINCH 2010 Milano ( C.L. Solero MD , S. M. Gaini )**

**TEORIC-PRATICAL COURSE CERVICAL DISCAL PROTHESIS BRYAN 2012 Milano ( R. Assietti MD )**

**ADVANCED NEUROSURGICAL COURSE “HOW TO AVOID  
MEDICO-LEGAL ACCIDENT about Endocranics Hypertension” 2011 Milano ( A. De Santis MD )**

**Congress “Cerebral aneurisms problems and treatment“**

Marani Foundation

2010 Verona ( A. Pasqualin MD, M. Gerosa MD. )

**Congress “Urgencies in Neurosurgery” Marani Foundation 2010 Verona ( A. Pasqualin MD, M. Gerosa MD. )**

## **Medical Qualifies & Skills**

**ADVANCED COURSE OF ULTRASOUND IN EMERGENCY AND URGENCY** at Catholic University of

Sacro Cuore

Rome General Hospital Gemelli

**PALSE**

[ PEDIATRIC ADVANCED LIFE SUPPORT ]

Children Hospital Maeyer Firenze

**ALS**

[ ADVANCED LIFE SUPPORT ]

**ECOFAST**

[ ABDOMINAL ULTRASONOGRAPHY IN EMERGENCIES]

**ATLS**

[ ADVANCED TRAUMA LIFE SUPPORT ]

**MIMMS**

[ MAJOR INCIDENT MEDICAL MANAGEMENT AND SUPPORT ]

**H-MIMMS**

[ HOSPITAL MAJOR INCIDENT MEDICAL MANAGEMENT AND SUPPORT ]

**PHTLS Provider**

[ PRE HOSPITAL TRAUMA LIFE SUPPORT ]

**HIGH DIFFUSIVE INFECTIOUS DISEASE MANAGEMENT AND TRANSPORT WITH ATI-STI  
STRETCHER**

Italian Air Force Health School

**PESS**

[ Post graduate advanced medical emergency course]

Italian Air Force Health School

**PTC Provider**

[ PRE Hospital TRAUMA CARE ]

## **Hobby & Sports**

Reading, squash, volley, mountain trekking, horse riding, rugby.