

## **A. CV – CHIARA TROMBETTA ENG**



**Chiara Trombetta ENG**

**MEDICAL ENGINEER**

**Born June 24<sup>th</sup> 1979 in Rome, Italy**

Mailing Address: V. S. Cornelia, 711, 00188 ,Rome, Italy

Tor Vergata University, Medical Engineering Service, Rome, Italy.

e-mail: [chiara.trombetta@yahoo.it](mailto:chiara.trombetta@yahoo.it)

mob. tel. +39 3392376960

### **1. Academic Qualifications**

Bachelor Degree in Medical Engineering at the University of Rome Tor Vergata - 2005  
'Development and Safety of Implantable Defibrillators'.

Masters Degree in Medical Engineering at the Tor Vergata University of Rome - 2007  
'Design of a Medical Device committed to the use of mechanical vibrations in the field of Rehabilitation Medicine'.

Professional Abilitation in Engineering Practice from 2008.

PhD student in 'Advanced Technology in Rehabilitation Medicine' from 2008 at the Tor Vergata University Medical School of Rome, Italy.

Master degree in Principles and Practice of Clinical Research 2009. Collaborative and Distance Learning Program in Clinical Research, scholars in Clinical Science Program & Department of continuing Educations Harvard Medical School.

## ***2. Professional and teaching activities/posts held since abilitation***

- Researcher at the Medical Engineering Department of the Tor Vergata University Hospital of Rome, Italy, since 2008 for the development and production of the medical device that induces controlled local vibrations by regulating frequency, force and time in order to promote regeneration of bone tissue and stimulate the strength, tone and activity of the muscle subsequent to an injury or other form of disability
- Associate Engineer at the Tor Vergata University Hospital of Rome, Italy, for the company IB Facility since 2009. Collaboration with the Medical Engineering Department for the management of integrated medical devices with the implementation of a software database.
- Associate Engineer at the Tor Vergata University Hospital of Rome, Italy, for the company ESAOTE S.p.A. responsible for the management of integrated medical devices - 2008. Collaboration with the Medical Engineering Department:
  - ✓ Planning and administration of technical problems and organizational management of a Medical Engineering Department, i.e. relocation of the Emergency Room
  - ✓ Development of a Risk Management project for medical devices designed to:
    - estimate their ageing, obsolescence and need for replacement
    - determination of their Priority Substitution Index (PSI)
    - configuration of a dedicated software application to determine the PSI
- Junior Engineer at the Medical Engineering Department of the Tor Vergata University Hospital of Rome, Italy - 2007.
  - ✓ Organization of the Medical Engineering Department activities
  - ✓ Design of a medical device that induces controlled local vibrations by regulating frequency, force and time in order to promote regeneration of bone tissue and stimulate muscle activity

- ✓ Participation in the Quality certification process UNI ISO 9001:2000 for the Medical Engineering Department and other hospital departments
- ✓ Application of Rfid technology in the healthcare system for the administration of medical devices and identification and count of laparotomic gauze
- Internship at the Medical Engineering Department of the Tor Vergata University Hospital of Rome - 2005
  - ✓ Acquisition of technical, managerial and organizational skills needed in a Medical Engineering Department
  - ✓ Participation in the planning and programming of purchases by performing technical and economic evaluations on the medical devices and their available technical support
  - ✓ Running of certification tests and maintenance procedures on medical devices, as required by the technical European norm CEI 62.5
  - ✓ Administration of the hospital medical device inventory using database software

### **3. National and International Scientific Society assignment:**

Italian Engineer Society- Full active member of the since 2008

### **4. Teaching activities for PRM Trainees**

Trainer at the Tor Vergata University since 2009, Master Degree in Medical Engineering, Rome.

PRM postgraduate education and specialist training education during PRM specialization.

### **5. Continuing Training**

#### **a) Main courses and congresses attended during the last 10 years**

1. YRMR 2010, Young Research Meeting Rome, Italy, 2010.
2. Course on "The clinical risk management within the Tor Vergata University Hospital" Rome, Italy, 2009.
3. Course on "The biological risk management within the Tor Vergata University Hospital" Rome, Italy, 2009.

4. RIMORM 09, III Rome International Meeting on Rehabilitation Medicine, Rome , Italy , 2009.
5. IX National Convention AIIC, Italian Association of Clinical Engineering, Palermo, Italy, 2009
6. Course on 1<sup>st</sup> level maintenance of "Infusion Systems & Pharmacovigilance" organized by Hospira S.p.A, Rome, Italy, 2009.
7. Course on "ZOLL defibrillators - Outline of physiology, technological solutions, clinical applications," organized by SEDA SpA, Rome, Italy, 2009.
8. Attended the Cepas qualified course on the context of ISO 9001:2000 (and ISO 9001:2008) "Auditor of Quality Management System in Healthcare" held by CERMET and passed the final examination, Rome, Italy, 2009.
9. Course on "The new legislative and regulatory framework for the governance of biomedical equipment" held by ESAOTE SpA, Rome, Italy, 2009.
10. 2nd International Meeting on Rehabilitation Medicine, Villa Mondragone, Monte Porzio Catone, Italy, 2008.
11. "Innovation in Hospital Asset Management" held by IB Facility, Genoa, Italy, 2008.
12. Workshop "Basics and Application of Multidisciplinary Therapeutic Vibration Exercise", Rome, Italy, 2008.
13. ECM Course on UNI ISO 9001:2000 "Management of a Quality System in Healthcare Centers", Rome, Italy, 2008.
14. Course on "Intraoperative mean systems for extracorporeal circulation and blood collection" held by Else Medical and Sorin Group, Rome, Italy, 2008.
15. ECM Course 'Management of Personal Data in a Healthcare System' Italian law D.Lgs. 196/03, Rome, Italy, 2007.
16. Course on "The Safety of Biomedical Technology Devices" held by TESI (Technology & Safety), Rome, Italy, 2007.
17. Workshop for Medical Engineers "Innovation of Medical Devices" held by Johnson & Johnson Medical, Pratica di Mare, Italy, 2007.
18. Vector - 1<sup>st</sup> Dissemination Meeting, Rome, Italy, 2007.

## **6. Scientific Work**

### **Plenary Lecture:**

Plenary Lecture at YRMR 2010, Young Research Meeting Rome, 2010. Trombetta C, Abundo P, Civitella A, Rosato N, Foti C *Application of Local Vibrations in Delayed and Non-union Fractures: a Case Study.*

Plenary Lecture at RIMORM 09, III Rome International Meeting on Rehabilitation Medicine, Rome, Italy, September, 2009. Abundo P, Trombetta C, Foti C, Rosato N *Production, Delivery and Application of Vibration Energy in Healthcare.*

Plenary Lecture at Workshop "Basics and Application of Multidisciplinary Therapeutic Vibration Exercise", Rome, Italy, 2008. Trombetta C, Abundo P, Rosato N, Foti C *Design of a Medical Device dedicated to the Clinical Application of Mechanical Vibrations.*

#### **Oral presentations:**

Oral Presentation at RIMORM 09, III Rome International Meeting on Rehabilitation Medicine, Rome, Italy, September, 2009. Trombetta C, Abundo P, Rosato N, Foti C *Use of Local Vibrations for Bone Regeneration: Case Report.*

Oral presentation at "Innovation in Hospital Asset Management" held by IB Facility, Genoa, Italy, 2008. Armisi L, Trombetta C, Rosato N *Development of Priorities for the Replacement of Medical Devices within the Tor Vergata University Hospital.*

#### **Poster presentations:**

Poster Presentation at IX National Convention AIIC, Italian Association of Clinical Engineering, Palermo, Italy, 2009. Armisi L, Trombetta C, Gatti D, Rosato N *Development of an Index of Priority of Replacement for Medical Devices.*

