



S.D. FERRARA

CURRICULUM

Academic Titles, Teaching and Scientific Research Activity

SYNOPSIS

Full Professor

Legal Medicine and Forensic Toxicology

Dean

- School of Medicine
- Regional Foundation – School of Public Health

Acting Director

1. Legal Medicine Specialization School
2. Department of *Legal and Occupational Medicine, Toxicology and Public Health*
3. U.O.C. - Complex Operative Unit of Legal Medicine and Toxicology

University-Hospital of Padova

Vice President

European Council of Legal Medicine

President

International Academy of Legal Medicine

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He received his first degree in Medicine and Surgery at the University of Padua in 1971. After this first degree, he continued his academic enrichment specializing in both Legal Medicine and in Toxicology at the same University. His formal education concluded with advanced training carried out in US Universities, where he was involved in the development of an applied research program focused on the Legal Medicine, Analytical and Behavioural Toxicology fields. On his return from the US, he was assigned the roles of Researcher, then Adjunct Professor and finally Associate Professor at the University of Padova and the University of Ancona. He continued his career achieving the title of Full Professor in 1990 at the University of Parma. Additionally, from 1989-90 to 1996 he acted as Director of the Legal Medicine Institute at the University of Ancona as well as the Director of the Specialization School at the University of Parma.

Since 1996 he has been Full Professor at the University of Padova and contemporarily was named Director of the **Forensic Toxicology and Antidoping Complex Structure of Padova University-Hospital**. In 1999 he was nominated Director of the Specialization **School of Legal Medicine** at the University of Padova.

During his tenure in Padova, among his other duties, he focused on the promotion and development of an **International Center of Forensic and Behavioural Toxicology** involved in providing clinical assistance as well as applied research. To date this Center is made up of over 25 clinicians and researchers with degrees and specialties in various areas including physics, chemistry, and medicine, biology who promote research on the effects of pharmaceuticals, drugs, toxins and doping substances.

He is the author of more than 350 publications including books and articles in both national and international, peer reviewed journals. An alphabetical, not exhaustive, list includes: *Advances in Biochemistry and Psychopharmacology*, *Alcohol*, *Drugs*

and Driving, American Journal of Forensic Medicine and Pathology, Alcoholism: Clinical and Experimental Research, Analytical and Bioanalytical Chemistry, Analytical and Quantitative Cytology and Histology, Annales de Toxicologie Analytique, Archives of Toxicology, Biochemistry and Psychopharmacology, Biological Psychiatry, Blutalkohol, British Journal of Addiction, British Journal of Clinical Pharmacology, Canadian Journal of Cardiology, Clinical Neuropathology, Current Opinion in Psychiatry, Electrophoresis, Expert Review Proteomics, European Archive of Psychiatry and Clinical Neuroscience, European Heart Journal, European Journal of Clinical Pharmacology, Forensic Science International, Frontiers in Behavioral Neuroscience, Histopathology, International Journal of Cancer, International Journal of Legal Medicine, Italian Hearth Journal, Italian Journal of Anatomy and Embryology, Journal de Medicine Legale et Droit Medical, Journal of Analytical Toxicology, Journal of Chromatography, Journal of Endocrinological Investigation, Journal of Forensic Sciences, Journal of Pharmaceutical and Biomedical Analysis, Journal of the American Society of Echocardiography, Journal of the Forensic Science Society, Journal of Mass Spectrometry, Life Sciences, Neuropsychopharmacology, Medicine, Science and the Law, Rapid Communications in Mass Spectrometry, Sleep Medicine Reviews, The Drug Monitoring, The Lancet, The Pharmacologist, Veterinary Human Toxicology, Zeitschrift für Rechtsmedizin.

He received diverse national and international scientific awards including the Widmark Award, Australia 1995.

He acted as Chairman, moderator and speaker in numerous International conferences/congresses in the areas of Legal Medicine, Forensic Sciences, Toxicology and other related disciplines.

He acted as consultant for the *United Nations - Drug Control Programme* and the *World Health Organization - Division of Mental Health* developing and directing social-sanitary health programs in Asia, South America and Africa in the arena of Legal Medicine and Forensic Toxicology.

As a culmination of his scientific activities with high social impact, he developed and enacted in the Veneto region a prevention campaign regarding "Saturday night massacres" caused by the abuse of alcohol and drugs. This was the first such campaign of its kind in Italy. Considering its social importance, he was awarded 1st Prize in the National Competition of the Milan Press Circle in 1995.

Since 1990 he has directed and actively managed the International Program of *Proficiency Testing on Psychoactive Substances* in which over 180 laboratories from 12 European countries participate.

Since 1990 he is the Regional Representative of The International Association of Forensic Toxicologists (TIAFT).

From 1994 he served as Editor of the Journal of Forensic Medicine "Adli Tip Dergisi" and Member of the International Council on Alcohol, Drugs and Traffic Safety.

From 1996 he served as Editor of the International Journal of Legal Medicine.

In 1997 he was President of "35^o World Congress of The International Association of Forensic Toxicologists (TIAFT)".

From 1999-2000 he was Member of the Scientific Commission "Antidoping" of the Italian Federation of Football (FIGC).

In 2000 he was President of the "Joint Meeting of the 2000 Medical Laboratory of physical exercise: from biochemistry to doping and analytical tests" as well as of the 2nd "European Symposium on Workplace Drug Testing".

From 2001 to 2005 he was a Member of the National Commission of the Ministry of Health for the "Control of Doping and Health Protection in Sporting Events"

Since 2002 he has been Member of the National Commission in the area of "Drugs Addiction" of the Ministry of Health, Work and Social Welfare.

From 2004 to 2007 he was *Secretary* of the Italian Society of Legal Medicine.

From 2007 to 2010 he was *Vice President* of the Italian Society of Legal Medicine.

From 2009 he was *Vice President* of the European Council of Legal Medicine.

From 2009 to 2012 he was *President-Representative* of the European Academy of Legal Medicine and a *Member of the Presidium Board* of the International Academy of Legal Medicine.

From 2010 he served as Editor of the *Rechtsmedizin*.

From 2010 he was *Editorial Board Member*, *Archiv für Kriminologie* and Honorary Member of the German Society of Legal Medicine.

From 2013 *Dean*, School of Medicine, University of Padova.

From 2013 *President*, International Academy of Legal Medicine.

From 2014 *Director*, Department of *Legal and Occupational Medicine, Toxicology and Public Health*, University - Hospital of Padova.

From 2014 *President*, Regional Foundation – School of Public Health, Veneto Region.

From 2015 *Member*, Advisory Commission for issues on the subject of Defensive Medicine and Professional Liability of healthcare workers, Ministry of Health of Italy.

ACADEMIC STUDIES

1. Degree Courses in Medicine and Surgery at the University of Padova

INTERNSHIPS AT THE INSTITUTES OF

- * Organic Chemistry and Biology
- * Pharmacology
- * Legal and Insurance Medicine

PUBLISHED GRADUATE THESIS ENTITLED

- * *“Chromatographic investigation of sperm traces”*.

2. Degree in Medicine and Surgery, University of Padova

Graduated magna cum laude (19/7/71).

3. Master’s Degree in Legal and Insurance Medicine, School of Specialization in Legal and Insurance Medicine, University of Padova

Published Experimental Thesis entitled:

“Legal medical considerations in the pathology of reanimation”.

Graduated magna cum laude (22/7/75).

4. Master’s Degree in Medical Toxicology, School of Specialization in Medical Toxicology, University of Padova

Published Experimental Theses entitled:

“Toxicological studies in the case of 15 opiate related deaths”.

Graduated magna cum laude (20/11/77).

5. Research and Training Stages

1977 - 1978

- ◆ *Case Western Reserve University, Cleveland, Ohio (USA) Laboratory of Toxicology, directed by Prof. I. Sunshine.*
- ◆ *Georgia Bureau of Investigation, Atlanta, Georgia (USA) State Crime Laboratory, directed by Prof. L. Slightom.*
- ◆ *Office of the Medical Examiner County of Nassau, California (USA) directed by Prof. A. Bidanset.*

- ◆ *Institute of Forensic Sciences, San Francisco, California (USA)* Laboratory of Toxicology, directed by Prof. C. Reynolds.
- ◆ *College of Physicians & Surgeons of Columbia University, New York (USA)* Department of Neurology, Laboratory of Neuropharmacology, directed by Prof. E. Pippenger.
- ◆ *Yale University, New Haven, Connecticut (USA)* School of Medicine, Department of Laboratory Medicine, directed by Prof. P. Jatlow.
- ◆ *University of New Haven, West Haven, Connecticut (USA)* Forensic Science Institute, directed by Prof. C. Lee.
- ◆ *Center for Human Toxicology, University of Utah, Salt Lake City (USA)*, directed by Prof. B. Finkle.
- ◆ *Syva Palo Alto, California (USA)* Experimental Laboratory, directed by V. Ulmann PhD.
- ◆ *Poisonlab Division of Chemed Corporation, Denver, Colorado (USA)*, directed by T. Siek PhD.
- ◆ *County of Santa Clara, California (USA)* Laboratory of Criminalistics, directed by W. Brackett PhD

1978 - 1980

- ◆ *Yale University, New Haven, Connecticut (USA)*, Department of Laboratory Medicine, directed by Prof. P. Jatlow.

GRANTS – STUDY AND RESEARCH CONTRACTS – COMPETITIONS – INSTITUTIONAL AND DIDACTIC ROLES

1. *Scholarship from the Ministry of Public Education* awarded after the competition for titles and examinations in the years 1964-1967 (Upper Middle School)
2. *Scholarship from the Ministry of Public Education* awarded after the competitive examination for titles in the years 67-69 (University of Padova).
3. *Scholarship from the Veneto Health Department* awarded for titles and examinations in the year 1972.
4. *Scholarship from the Ministry of Public Education* awarded after the competitive examination for titles in the year 1972 (University of Padova, Institute of Legal Medicine).
5. *Study and research contract from the Ministry of Public Education – University of Padova* (Institute of Legal Medicine) awarded after the competitive examination for titles in the years 1973-1979.
6. *Senior Nato Fellowship* awarded in 1978-1980 by the National Research Advisor after the competitive examination for titles and for the performance of experimental research at Yale University, New Haven, Connecticut (USA).
7. *Appointed Professor* of Criminal Anthropology (1976-'78) at the University of Padova.
8. *Tenured University Researcher*, SSD of Legal Medicine at the University of Padova, 1980.
9. *Tenured University Professor, 2ND Band*, SSD of Legal Medicine at the University of Padova from 1981-1990.
10. *Tenured University Professor, 2ND Band*, SSD of Legal Medicine at the University of Ancona from 1988 to 1991.
11. *Director* of the Institute of Legal Medicine at the University of Ancona from 1988-1991.
12. *Director* of the Forensic Toxicology Service of the ULSS 21 of Padova from 1983 to 1999.

13. *Full Professor of Legal Medicine at the University of Parma from 1990 to 1996 and of Padova from 1996.*
14. *Director of the School of Specialization of Legal Medicine at the University of Padova from 1991-1996.*
15. *Director of the School of Specialization of Legal Medicine at the University of Padova from 1999.*
16. *Holder of the chair of teaching of Legal Medicine in multiple Courses of Study and Schools of Specialization at the University of Padova (1979-'89;1996 – present time), Ancona (1989-'91), Parma (1990-'99) and at the Campus of Treviso (from 2007).*
17. *Director of the Complex Structure of Forensic Toxicology and Antidoping at the University Hospital of Padova from 2009.*
18. *Vice Director of the Department of Environmental Medicine and Public Health at the University of Padova from 2009 to 2010.*
19. *Director of the Complex Structure of Legal and Insurance Medicine at the University of Padova from 2009.*
20. *Director of the Department of Environmental Medicine and Public Health at the University of Padova from 2010 to 2011.*

SCIENTIFIC ROLES – INSTITUTIONS

International

1. President-Representative, *European Academy of Legal Medicine*.
2. Vice President, *European Council of Legal Medicine*
3. Member Presidium – Board, *International Academy of Legal Medicine*.
4. Editorial Board Member, *International Journal of Legal Medicine*, Springer International, Heidelberg, Germany.
5. Editorial Board Member, *Archiv für Kriminologie*, Verlag Schmidt-Römhild, Leipzig, Germany.
6. Honorary Member, *German Society of Legal Medicine - Deutsche Gesellschaft für Rechtsmedizin*.
7. Member, *International Council on Alcohol, Drugs and Traffic Safety (ICADTS)*.
8. Regional Representative, *the International Association of Forensic Toxicology (TIAFT)*.
9. Italian Representative in *the European Council of Legal Medicine*.

Former

1. Consultant, *Division of Technical Services of United Nations Drug Control Programme*, in Forensic Medicine and Toxicology for the development of Comprehensive Master Plans in developing countries.
2. Consultant Adviser, *Mental Health Division of the World Health Organization and United Nations Drug Control Programme (UNDCP)*. As Forensic Medicine and Toxicology expert he has held consultations for the following developing countries: *Argentina, Bahrain, Chile, Chinese Popular Republic, Cyprus, Egypt, India, Kenya, Malaysia, Pakistan, Philippines, Somalia, and Thailand*.

3. Scientific Committee Member, *Commission of the European Communities, Directorate-General Employment Industrial Relations and Social Affairs, Health and Safety Directorate of Luxembourg.*
4. Scientific Committee Member "*Programa Espanol de calidad drogas de abuso*", Spain.
5. Scientific Committee Member, *Commission on "Drug analysis in urine", Directorate of General Employment, Industrial Relations and Social Affairs of the European Union.*
6. Scientific and Didactic Committee Member, *International Course on Drug Addiction, St. George Hospital, London University.*
7. Scientific Committee Member, *Commission for "Drugs other than alcohol and driving in the European Union", General Directorate for Transport in the European Union.*
8. *Consultant United Nations Drug Control Programme (UNDCP) – World Health Organization (WHO) National Traffic Safety Prevention and Control Programme in Pakistan*
9. *Director UNDCP Centre for Behavioural and Forensic Toxicology at the University of Padova.*
10. *Consultant-Director, UNDCP Master Plan for Africa Drug Prevention Programme, United Nations Vienna International Centre.*
11. *Director, International Proficiency Testing Programme on "Psycho-active Substances", University of Padova.*
12. *Scientific Committee President, or Advisory Member or Chairman and/or Lecturer in multiple International Scientific World and European Meetings on Legal Medicine and Toxicology.*

National

1. Editorial Secretary (1985-2000) *Italian Journal of Legal Medicine.*
2. Member of the Scientific Board (1990-1994), *Italian Society of Drug Addiction*

3. Member, *Regional Committee of the Veneto for the fight against AIDS*.
4. Member of the Scientific Board, *Alcologia (European Journal of Alcohol Studies)*.
5. Member of the Scientific Board, *Medicine of Drug Addiction (Italian Journal of Addictions)*.
6. Member of the Italian Society of *Legal Medicine and Forensic Toxicology*

Former

1. *Ministerial Commission responsible for the definition of the ascertainment procedures for driving under the influence of alcohol and narcotics;*
2. *National Commission of Ministries of Health and of Cultural Heritage for the "Monitoring and Control on Doping and for the protection of Health in Sporting Activity";*
3. *National Commission on the subject of "Drugs and Addiction", established by the President of the Board of Ministries in the Ministry of Health, Work and Social Politics;*
4. *National Commission of Experts established by the President of the Higher Institute of Health for editing of Scientific Relations on toxicity and dependence on substance abuse, including smoking and alcohol, with the aim of planning adequate counter policies and prevention.*
5. *Secretary of the Italian Society of Legal Medicine from 2004 to 2007.*
6. *Deputy Vice President of the Italian Society of Legal Medicine from 2007 to 2010, with the responsibility for System Quality in Legal Bio-medical Science and for the Development of International Societal Relationships.*
7. Member of the Commissions of the Athenaeum and/or Faculty of Padova: "Teaching budget", "Observatory of the School of Specialization", "Master and Post-graduate formation", "Institutions and Business Relationships".
8. "Ad hoc" Advisor of the *Federal Bureau of Investigation (F.B.I), Interpol, National Anti-mafia Directorate, Ministry of Health, Work and Social Policies,*

Internal and Justice, Higher Institute of Health, Conference of State – Regions, Veneto Regions, Sporting Institutions and Societies.

9. Promoter and Manager “pro-tempore” of International Scientific Research Projects, on the subject of Legal Medicine and Forensic Toxicology, promoted by the European Union, World Health Organization, International Council on Alcohol, Drug and Traffic Safety.
10. *Chairman* and *Spokesperson* in numerous National Conventions of Legal Medicine and related disciplines.

SCIENTIFIC AWARDS

- a. He received the *Macaggi and Perrando prizes*, awarded by the Italian Society of Legal Medicine as the author of the best publications concerning legal medicine in the periods of 1976-1977, 1977-78.
- b. He received the *Widmark Award* in 1995, an international scientific award from the International Council of Alcohol, Drugs and Traffic Safety (ICADTS).
- c. He received in 1995 the 1ST Prize of the National Press Circle of Milan for activity of social-scientific importance.

LEADERSHIP AND MANAGERIAL ROLES

From the end of the 1980's until the present time he performed and held multiple roles of *Director* and *Manager* in National and International Public Institutions.

At the *National Level* he has simultaneously directed, promoted and achieved in various offices the development of the University Institutions of *Padova, Ancona and Parma*.

In particular and in chronological order:

- a. Service of Forensic Toxicology of the ULSS 21 of Padova, from 1983 to 1999;
- b. Institute of Legal Medicine at the University of Ancona, from 1988 to 1991;
- c. School of Specialization and the Institute of Legal Medicine of the University of Parma, from 1991 to 1996;
- d. School of Specialization of Legal Medicine at the University of Padova, from 1999 to the present day;
- e. Complex Structure of Forensic Toxicology and Antidoping at Padova University-Hospital, from 1999 to the present day;

- f. Department of Environmental Medicine and Public Health at the University of Padova, from 2008 as Vice Director and from 2010 to 2011 as Director;
- g. Complex Structure of Legal and Insurance Medicine at Padova University-Hospital, from 2009 to the present day.

At the *International level* he has promoted, developed and directed the programmes and/or the institutes set out below:

1. United Nations Drug Control Program (*UNDCP*) – World Health Organization (*WHO*) *National Traffic Safety Prevention and Control Programme in Pakistan, 1993;*
2. *UNDCP Centre for Behavioural and Forensic Toxicology at the University of Padova, 1989-2003;*
3. *UNDCP Master Plan for Africa Drug Prevention Programme, 1992-93;*
4. *International Proficiency Testing Programme for “Psychoactive Substances”, University of Padova, 1989-2009.*