

**Jeffrey Michael Franc,  
MD, FCFP.EM, Dip Sport Med, EMDM, MSc**

Associate Clinical Professor of Emergency Medicine,  
Department of Emergency Medicine, University of Alberta

Visiting Professor in Disaster Medicine  
Dipartimento di Medicina Clinica e Sperimentale  
l'Università degli Studi del Piemonte Orientale "Amedeo Avogadro"  
Novara, Italy

Medical Director, Emergency / Disaster Medicine  
Alberta Health Services  
Alberta, Canada

Phone(Can): +780 700 6730  
Phone(Italy): +39 339 3901362  
Email: jef@medstatstudio.com

**Languages:** English, Italian (written and spoken)  
French, Spanish (working knowledge)

## **Career Objectives**

- Continue to practice in a full-time emergency department setting.
- Develop new skills in teaching, research, and management of disaster medicine with emphasis on disaster plan evaluation through computer simulations.

## **Summary of Experience**

- Residency training in Emergency Medicine, Sport Medicine, and Family Medicine.
- Masters Degree and Research sabbatical in Disaster Medicine.
- Masters degree in applied statistics and Quality Engineering
- Superior clinical skills in emergency medicine developed during fifteen years as university teaching faculty in an adult and pediatric tertiary care emergency department.
- Disaster planning medical director for the province of Alberta.
- Advanced skills in clinical sports medicine and in disaster management of a large scale sporting event

## **Clinical Work Experience**

**Medical Director Emergency/Disaster Management** (2010-present)  
Alberta Health Services

- Overseeing medical direction in Disaster Management for a population of approximately 3 million people.
- Developing and implementing disaster management protocols including command-and-control structure for emergency response

**Associate Clinical Professor of Emergency Medicine** (1998-present)

University of Alberta Hospital, Edmonton, Alberta, Canada

- Assessing and treating emergency department patients in a large trauma referral university setting.
- Evaluating and managing trauma patients while serving as the Trauma Team Leader.
- Instructing residents and medical students in a clinical setting.
- Developing and maintaining a multilingual glossary of emergency medicine terms in English, French, Italian, and Spanish:  
[www.pezzot.com/lang.html](http://www.pezzot.com/lang.html)

**Pediatric Emergency Physician** 2001-present

University of Alberta Children's Hospital, Edmonton, Alberta, Canada

- Assessing and treating pediatric emergency department patients in a large university hospital.
- Instructing residents and medical students in a clinical setting.

**Casualty Officer** 1998

Fort McMurray Hospital, Fort McMurray, Alberta, Canada

- Assessed and treated emergency department patients in a community based hospital.
- Acted as Flight Physician for air medical evacuation.

## **Non-Clinical Work Experience**

**Visiting Professor in Disaster Medicine** (2008-Present)

Dipartimento di Medicina Clinica e Sperimentale

L'Università degli Studi del Piemonte Orientale "Amedeo

Avogadro" Novara, Italy

- Development of mathematical modeling and simulation based training in Disaster Medicine
- Training of medical students in multiple topics of disaster medicine
- Tutoring masters degree students in thesis preparation
- Data Analysis and critical appraisal of manuscript preparation.

**Disaster Medicine Residency Program Coordinator** (2010-present)

University of Alberta, Edmonton, Alberta, Canada

- Developed innovative strategies for a vertical curriculum in disaster medicine for two emergency medicine residency programs.
- Supervising annual computerized simulation exercises for emergency medicine residents.
- Lecturing on a rotating schedule of disaster medicine issues.
- Teaching bioterrorism annually to pharmacy students

**Physician Coordinator, Disaster Planning committee** (1999-2013)

University of Alberta Hospital, Edmonton, Alberta, Canada

- Piloting and implementing a multi-disciplinary action plan for hospital disaster response.
- Facilitating and coordinating ongoing table-top exercises.

- Presenting at teaching rounds on topics in disaster medicine.
- Developing and maintaining a web site for a computer based disaster medicine tutorial: [www.surgesim.com](http://www.surgesim.com)

**Physician Representative, Occupation Health Committee** 2000-2007  
University of Alberta Hospital, Edmonton, Alberta, Canada

- Promoting and overseeing appropriate measures to facilitate employee safety in the emergency department.

**Chief Medical Officer, 2005 World Masters Games** 2005  
Edmonton, Alberta

- Designed and implemented emergency and disaster planning for a sporting event of 23,000 athletes
- Created protocols for emergency management of sporting injuries
- Chaired interdisciplinary meetings of the medical committee

**Examiner, Canadian Academy of Sport Medicine** 2004

- Examining in a multi-station clinical examination

**Physician Representative, Quality Care Committee** 1999-2001  
University of Alberta Hospital, Edmonton, Alberta, Canada

- Presented a multi-media overview of quality care efforts in the Division of Emergency Medicine.
- Aided in the design and operation of hospital based quality care projects.

**Coordinator, Year 2000 Disaster Planning Committee** 1999-2000  
University of Alberta Hospital, Edmonton, Alberta, Canada

- Researched and developed an Emergency Medicine approach to potential Year 2000 disasters.

**Chief Resident, CCFP.EM Program** 1998-1999  
University of Alberta Hospital, Edmonton, Alberta, Canada

- Modeled an objective tool for faculty evaluation.
- Interviewed candidates for the University of Alberta Emergency Medicine Residency Program.

**Web-Site Programmer** 1997-1999  
Canadian Academy of Sport Medicine (CASM)

- Programmed and maintained the CASM website, [www.casm-acsm.org](http://www.casm-acsm.org)

**Assistant Chief Resident, CCFP Program** 1997-1998  
McGill University, Montreal, Quebec, Canada

- Scheduled resident call roster.
- Evaluated and appraised resident performance records.

## Education

**Msc Applied Statistics (2008-2013)**  
Rochester Institute of Technology

- Study program concentrating on Quality Engineering
- Researched projects emphasizing Quality Engineering in Emergency Department management
- Developed Special skills in machine learning and mathematical

modeling.

**European Master in Disaster Medicine (2005-2006)**

Università della Piemonte Orientale, Novara, Italy

- Conducted simulated disaster management exercises using electronic and full-scale exercises.
- Developed a database of simulated patients as an international standard for testing of hospital disaster plans.
- Created a computerized Emergency Department simulation model for disaster management.

**CCFP.EM Residency (1997-1998)**

University of Alberta, Edmonton, Alberta, Canada

Skills and Responsibilities

- Managed patients in community and university based hospital emergency departments.
- Developed superior skills in invasive procedures such as bronchoscopy, intubation, and central line placement
- Organized a scientifically based athletic training program for cyclists and trained several prominent athletes using this program: [www.voltarace.com](http://www.voltarace.com)

**CCFP (Family Medicine) Residency (1995-1997)**

McGill University, Montreal, Quebec, Canada

- Developed special skills in Emergency Medicine, Sport Medicine, and Orthopedics.
- Managed patients in ambulatory and inpatient settings in a hospital with a prominent geriatric and multi-lingual patient base.

**Rotating Internship (1994-1995)**

McGill University, Montreal, Quebec, Canada

- Developed and maintained a patient based information website for sport medicine: [www.voltarace.com/frankenstein/](http://www.voltarace.com/frankenstein/)

**MD Program (1991-1994)**

University of Calgary, Calgary, Alberta, Canada

- Conducted research to implement a protocol for investigation of cervical spine injuries.
- Presented a research project on the use of arthrography for the evaluation of knee injury.

**Bsc (Honors) Physiology (1988-1991)**

University of Alberta, Edmonton, Alberta, Canada

## Licensing and Certifications

Six Sigma Green Belt / Design for Six Sigma	2011
Emergency Operations Center Level EOC-100/EOC-200	2006
Incident Command System Levels I-100/I-200/I-300	2005
Emergency Operations Center Level EOC-1	2005
Diploma in Sport Medicine, (CASM)	2003
CCFP.EM Certification Examination (Emergency Medicine)	1998
CCFP Certification Examination (Family Medicine)	1997
Quebec Family Medicine Certification Examination	1997

Office de La Langue Francais, French Competency Exam 1997

## **Additional Learning Activities**

APLS Provider Course	2012
AHLS Provider Course	2007
APLS Provider Course	2003
ACLS/PALS Instructor Course	1999
ATLS Provider Course	1998
ACLS/PALS Provider Course	1998
Teaching Enhancement Workshop	1997

## **Honors and Awards**

Clinical Teacher of the Year, University of Alberta	2009,2005,2002
Louise McKinney Scholarship	1989
Undergraduate Math Award	1989
Rutherford Scholarship	1988

## **Memberships and Associations**

Council of Public Health Physicians, Exective Member	2011-2013
European Master in Disaster Medicine Alumni Association President Elect	2009
European Master in Disaster Medicine Academy, Board Member, Education Committee	2009
European Master in Disaster Medicine Alumni Association Secretary	2007-2009
European Society of Emergency Medicine, Board Member, Section of Disaster Medicine	2008-2009
Canadian Academy of Sports Medicine	2001-2013
World Association of Disaster and Emergency Medicine	2006-2009

## **Publications: Journals**

Ragazzoni L, Ingrassia PL, Gugliotta G, Tengattini M, Franc JM, Della Corte F: Italian medical students and disaster medicine: Awareness and formative needs. Amer J Disast Med 2013; 8: 127-136.

Ingrassia, PL, Colombo D, Barra FL, Careno L, Franc J, Della Corte F. Impacto de la formación en gestión médica de desastres: resultados de un estudio piloto utilizando una nueva herramienta para la simulación in vivo. Emergencias 2013; 25:00-000.

Franc JM, Nichols D, Dong S: Increasing Emergency Medicine residents' confidence in disaster management: Use of an Emergency Department simulator and an expedited curriculum. Prehosp Disaster

Med 2012;26(6):1-5.

Ahlborn L, Franc JM: Tornado hazard communication disparities among Spanish-speaking individuals in an English-speaking community. Prehosp Disaster Med 2012; 26:1-5

Franc-Law JM, Ingrassia PL, Ragazzoni L, Della Corte F. The effectiveness of simulation based training on the Disastermed.Ca emergency department simulator for medical student training in disaster medicine. CJEM 2010; 12:27-32.

Ingrassia PL, Prato F, Geddo A, Colombo D, Tengattini M, Calligaro A, La Mura F, Franc-Law JM, Della Corte F. Evaluation of Medical Management during a Mass Casualty Incident Exercise: An Objective Assessment Tool to Enhance Direct Observation. J Emerg Med 2010; 629-636.

Franc-Law JM, Ingrassia PL, Della Corte FD, Colombo D. Simulation Training in Surge Capacity Management Using the Disastermed.Ca Emergency Department Simulator. Prehosp Disast Med 2009; 24:s115.

Franc-Law JM, Dong SL, Nichols D. Resident Training in Disaster Medicine Using the disastermed.ca Emergency Department Simulator and an Expedited Problem-Based Curriculum. Prehosp Disast Med 2009; 24: s117.

Franc-Law JM, Ingrassia PL, Ragazzoni L, Della Corte F. Effectiveness of Simulation Based Training on the disastermed.ca Emergency Department Simulator in Addition to Problem Based Learning for Medical Student Training in Disaster Medicine. Prehosp Disast Med 2009; 24:s121.

Franc-Law JM, Bullard M, and Della Corte F. Accuracy of computer simulation using the Disastermed.Ca patient database in predicting patient flow during mass casualty incidents in a large urban hospital. Prehosp Disast Med 2008; 23:354-360.

Franc-Law JM, Bullard MJ, Della Corte F. Simulation of a hospital disaster plan using the Disastermed.Ca patient database and an existing computerized patient tracking system: A virtual live exercise. Prehosp Disast Med 2008; 23: 346-353.

Franc-Law JM, Bullard MJ, Della Corte F. Hospital disaster plan simulation using the "Disastermed.ca" patient database and an existing, computerized, patient tracking system: a virtual live exercise. Prehosp Disast Med 2007: s172-s173.

Franc-Law JM. A community based model for medical management of a large scale sporting event. Clin J Sport Med 2006;16: 406-11.

Franc-Law JM, Begin LR, Vasilevsky CA, Gordon PH. The dramatic presentation of colonic lipomata: Report of two cases and review of the literature. Am Surg 2001 May; 67(5): 491-4. Review.

Steiner IP, Franc-Law JM, Kelly RD, Rowe BH. Faculty evaluation by residents of an emergency medicine program: A new evaluation

instrument. Acad Emerg Med 2000 Sep; 7(9) 1015-21.

Franc-Law JM, Rossignol M, Verneq A, Somygi D, Shrier I. Poisoning-induced acute atraumatic compartment syndrome. Am J Emerg Med 2000 Sep; 18(5): 616-21. Review.

## **Publications: Text Chapters**

Franc JM. Avalanche Emergencies. In Ciottone G, Della Corte F (eds): Specific Multiple Casualty Treatment: 2008.

Franc JM, Photiou S. Pandemic Influenza. In Ciottone G, Della Corte F (eds): Specific Multiple Casualty Treatment: 2008.

Franc JM. Winter Storms. In Ciottone G, Della Corte F (eds): Specific Multiple Casualty Treatment: 2008.

Franc JM, Stewart KM, Stewart C. Technological Terrorism. In Ciottone G, Della Corte F (eds): Specific Multiple Casualty Treatment: 2008.

## **Invited Presentations**

Computer Simulation of a Mass Casualty Incident Using the SurgeSim Emergency Department Simulator. Stollery Children's Hospital, 2013.

Computer Simulation of a Mass Casualty Incident Using the SurgeSim Emergency Department Simulator. European Master in Disaster Medicine, Novara, Italy, 2010-2013. (annually)

Command and Control: Incident Command System. European Master in Disaster Medicine, Novara, Italy, 2008-2013. (annually)

Computer Simulation of a Mass Casualty Incident Using the SurgeSim Emergency Department Simulator. Alberta Children's Hospital, Calgary, 2012.

Computer Simulation of a Mass Casualty Incident Using the disastermed.ca Emergency Department Simulator. Central European Emergency Medicine Symposium, Wroclaw, Poland, June 17, 2009.

Command and Control: Incident Command System. Central European Emergency Medicine Symposium, Wroclaw, Poland, June 17, 2009.

Computer Simulation Exercise in Hospital Surge Capacity Using the disastermed.ca Emergency Department Simulator. European Master in Disaster Medicine, Novara, Italy, June 2009.

Command and Control: Incident Command System. European Master in Disaster Medicine, Novara, Italy, June 2009.

Simulazione Informatica: Gestione sanitaria del Pronto Soccorso in risposta ad una maxi-emergenza. Corso di Formazione Principi

generali di Medicina dei Disastri. Genova, Italy, April 27 2009.

La catena del comando e controllo in ospedale. Corso di Formazione Principi generali di Medicina dei Disastri. Genova, Italy, April 27 2009.

Simulazione Pratica di Gestione Sanitaria di un'emergenza Infettiva. Novara, Italy, December 16, 2008.

Simulazione Informatica: Gestione Sanitaria del Pronto Soccorso in Risposte ad una Maxiemergenza. Palermo, Sicily, October 14-15, 2008.

Triage: Principi e le metodologie. Palermo, Sicily, October 13, 2008.

La Catena di Commando e controllo nel ospedale. Palermo, Sicily, October 13, 2008.

Command, Control, and Coordination. European Society of Emergency Medicine Annual Meeting. Munich, Germany, September 13, 2008.

Disaster Preparedness: Department of Surgery Grand Rounds. Edmonton, AB, Sept 7, 2008.

Simulation of a Mass Casualty Incident. United Nations Mass Emergency Response Training. Gothenborg, Sweden. June 10, 2008.

EMS and the Hospital. Command, Control, and Coordination. United Nations Mass Emergency Response Training. Gothenborg, Sweden. June 10, 2008.

Hypothermia in Disasters: Avalanches and Winter Storms. United Nations Mass Emergency Response Training. Gothenborg, Sweden. June 10, 2008.

Simulation training in Surge Capacity. European Master in Disaster Medicine. May 26, 2008.

Simulazione di una Maxiemergenza nel Ospedale. Corso Opzionale in Medicina dei Disastri. Novara, Italy. May 21/June 6, 2008.

Commando, Controllo, e Coordinamento in una Maxiemergenza. Corso Opzionale in Medicina dei Disastri. Novara, Italy. May 19, 2008.

EMS and the Hospital: Command, Control, and Coordination. PLESMAC Course in Disaster Medicine. Azores, Portugal, May 13, 2008.

Biological Disasters. PLESMAC Course in Disaster Medicine. Azores, Portugal, May 13, 2008.

L'Emergenza Ospedaliera in Canada. Master in Economia Politica Sanitaria, Torino, IT, April 23, 2008.

Disaster Medicine Simulation: Mediterranean Emergency Medicine Conference IV, Sorrento, IT, Sept 18, 2007.



Emergency Department Management Simulation Exercise: European Master of Disaster Medicine 2007. Courmayeur, Italy, June 8, 2007.

Rising to the Challenge of Optimal Influenza Management: Seasonal and Pandemic. Edmonton, AB, Canada, Feb 13, 2007.

Update on Pandemic Influenza. Emergency Nursing Interest Group Conference, Kananaskis, AB, Canada, Oct 14, 2006.

CBRNE Update for Emergency Physicians. Department of Emergency Medicine Grand Rounds, University of Alberta, Sept 5, 2006.

Introduction to Incident Command System. Department of Emergency Medicine Grand Rounds, University of Alberta, Dec 12, 2005.

Tabletop exercise for the University of Alberta Hospital Disaster Plan. Department of Emergency Medicine Grand Rounds, University of Alberta, Oct 18, 2005.

Approach to the Collapsed Athlete. Department of Emergency Medicine Grand Rounds, University of Alberta, April 2, 2005.

Faculty evaluation by residents of and emergency medicine program: A new evaluation instrument. Alberta Meeting on Medical Education. May 4, 1998.

## **Research Grants**

Johnson D, Predy G...Franc-Law J. Feasibility and effectiveness of a community triage center to manage influenza-like illness in an urban setting. Canadian Institute of Health Research Operating Grant in Pandemic Preparedness. 2006-2008.

## **Abstract Presentations**

Use of the Kernel Support Vector Machine for Prediction of Need for Admission and Time for Disposition among Simulated Emergency Department Patients During Disaster Exercises. European Society of Emergency Medicine, Marseille, France, 2013.

Derivation of Benchmarks for Disaster Management Surge Capacity with the SurgeSim Emergency Department Simulation Software and Statistical Process Control. European Master of Disaster Medicine Scientific Meeting, Marseille, France, 2013.

Measuring Disaster Management Surge Capacity with the Disastermed.Ca Simulation. A Process Control Study. European Society of Emergency Medicine, Stockholm, 2010.

Simulation Training in Surge Capacity Management Using the

Disastermed.Ca Emergency Department Simulator. European Society of Emergency Medicine Annual Meeting, Munich, Germany, September 14, 2008.

Evaluation of the Disastermed.Ca Simulation Based Curriculum for Disaster Medicine. European Society of Emergency Medicine Annual Meeting, Munich, Germany, September 14, 2008.

## Posters

ICED: Incident Command for Emergency Departments. Results of a customer satisfaction survey for a novel command and control tool. European Society of Emergency Medicine, Marseille, France, 2013.

Design for Six Sigma in Disaster Medicine Curriculum Development for Emergency Medicine Residents. European Society of Emergency Medicine, Marseille, France, 2013.

Use of logistic regression to predict the need for admission among emergency department patients: a model to predict patient suitability for a rapid assessment zone. European Society of Emergency Medicine, Marseille, France, 2013.

A Structured Approach to Shift Scheduling in the Emergency Department: Implementation of Simple Statistical Methods to Evaluate Physician Workload. European Society of Emergency Medicine. Stockholm, Sweden, 2010

Dong SL, Nichols DN, Franc-Law JM. Teaching Disaster Medicine Through a Simulation Based Curriculum. Festival of Teaching, University of Alberta, Edmonton, 2009.

Nichols DN, Dong SL, Franc-Law JM. Teaching Disaster Medicine by a Simulation-Based Curriculum, International Conference on Residency Education, Royal College of Physicians and Surgeons of Canada, Ottawa, 2008.

Dong SL, Nichols DN, Franc-Law JM. Resident Acceptance and Attitudes to a Simulation-Based Disaster Medicine Curriculum. , International Conference on Residency Education, Royal College of Physicians and Surgeons of Canada, Ottawa, 2008.

Use of the Disastermed.Ca Emergency Department Simulation in Addition to Problem Based Learning Alone for Medical Student Education in Disaster Medicine. Società di Anestesia Analgesia Rianimazione e Terapia Intensiva Annual Meeting. Palermo, Sicily, October 14, 2008.

Simulation Training in Surge Capacity Management Using the Disastermed.Ca Emergency Department Simulator. Società di Anestesia Analgesia Rianimazione e Terapia Intensiva Annual Meeting. Palermo, Sicily. October 14, 2008.

Use of the Disastermed.Ca Emergency Department Simulation in Addition to Problem Based Learning Alone for Medical Student Education in Disaster Medicine. European Society of Emergency Medicine Annual Meeting, Munich, Germany, September 14, 2008.

## **References**

Available upon request.