

PREHOSPITAL and DISASTER MEDICINE

Médecine Pré-Hospitalière et Médecine de Catastrophe

Medicina Prehospitalaria y de Catástrofes

病院にかかる前の処置と
災害医療

Volume 18, Supplement 1

January–March 2003

Abstracts of Scientific and
Invited Papers
1st NATO Medical Conference
Incorporating
7th NATO Blood Conference
Civil-Military Co-operation

Ljubljana, Slovenia
01 – 05 September 2003

The Official Journal of the
World Association for Disaster and Emergency Medicine
and the
Nordic Society of Disaster Medicine

Abstracts of Scientific and Invited Papers 1st NATO Medical Conference Incorporating 7th NATO Blood Conference Civil-Military Co-operation

Ljubljana, Slovenia
01–05 September 2003

Table of Contents

Plenary Sessions

Military Medical Services in the 21st Century: Quo Vadis?S1

Roger Van Hoof

Keywords: asymmetry; budgets; civil-military; chemical, biological; nuclear, radiologic; COMDS; cooperation; decision-making; media; medical; mobility; multinational; non-lethal weapons; North Atlantic Treaty Organization (NATO); planning; tele-consultation; telemedicine; war; weapons of mass destruction (WMD)

NATO Joint Medical Committee Mission and FunctionsS4

Arild Kovdal, MD

Keywords: civil engineering; field activities; planning; protection; WMD

Civil-Military Cooperation in an Asymmetric Security EnvironmentS4

Stephen C. Orosz

Keywords: 11 September 2001; anthrax; civil-military cooperation; consequence management; defense; NATO; plan; security; terrorism

Medical Organization in NATOS4

Col. Silvio Porcu IT AF

Keywords: adaptation; civilian; function; military; mission; NATO; organization; principles, operating

Restructuring to Face Future Challenges: NATO's New Strategic Medical OrganisationS5

Lieutenant Colonel John McIntosh, MSc, RAMC

Keywords: borders; change; commands, strategic; crisis; deployment; military; NATO; reaction forces; terrorist attacks

CIOMR: The Changing Role of Military and Civilian Medical Reserve ForcesS5

Surgeon Commander RDNR Peter J.T. Knudsen

Keywords: armed forces; CIOMR; database, civilian skills; medical; NATO; nurses; physicians; reserves; resources

Lessons Learned

Lessons of Medical MultinationalityS5

Lieutenant Colonel John McIntosh MSc RAMC

Lessons From a Severe Outbreak of Meningitis and Gastroenteritis Among Staff of a British Field Hospital in AfghanistanS6

Col. Timothy John Hodgetts, MMEd, MB, BS, FRCP, FRCSEd, FFAEM, FIMCRCSEd, FRGS, L/RAMC

Keywords: diagnosis; disseminated intravascular coagulopathy (DIC); epidemic; field hospital; gastroenteritis; meningitis; military; Norwalk-like virus

When the Heroes Have Left — Identification in Mass Casualty SituationsS6

Surgeon Commander RDNR Peter J.T. Knudsen

Keywords: civilian; cooperation; identification of remains; military, rank; pathology, forensic

Lessons Learned from Deployments to Disaster Areas WorldwideS6

LTC (Ret.) Mauricio Lynn, MD

Keywords: deployment; disaster; lessons; logistics; medical teams; personnel; planning; standardization

**Our Experience as Role 1 Staff in SFOR (NATO) Operations Joint Force in Sarajevo—
BIH 2000–2002**S6

Andrej Strahovnik, MD; Slavisa Mihaljević, MD; Bozidar Pekarović, MD; Niko Strlić, MD

Keywords: adaptability; army, Slovenian Armed Forces; civil-military; cooperation; customs; language; pharmaceuticals; prerequisites; preventive medicine; Sarajevo; SFOR; surgery

Free Topics

Pharmacy Service in SloveniaS7

Darja Frankic; Andreja Cufar

Keywords: approval; communities; devices; drugs; formulation; hospitals; laboratories; nursing care; pharmacies; processes; production; stock; testing

Development of Pharmacy Services Within the Military Health ServiceS7

Irena Bele Kuznik, Master of Pharmacy

Keywords: army; health services; international operations; legislation; medical care; military; Ministry of Health; NATO; pharmacy services; Slovenia; standardization; war

Hospital Pharmacy in SloveniaS7

Metka Stefancic; Darja Frankic

Supply of Medicinal Products in the Hospital — How Long Can We Hold Out?S8

Tajda Miharija-Gala; Andreja Vidmar; Silva Jenko

Keywords: audit; consumption; disaster; emergency; pharmacy; requirements; storage; stores; supplies; transport

Preparation of Parenteral Solutions – How Far We May Deviate From the Regulations?S8

Tajda Miharija-Gala; Valda Vodopivec

Keywords: disaster; emergency; manufacture; personnel; preparation; process; production; solutions, parenteral; supplies

Importance of Aseptic Preparation of Products for External UseS8

Tajda Miharija-Gala; Simona Mitrovic; Spela Urb

Keywords: antimicrobial; catastrophes; disasters; disinfectants; epidemics; infections; intensive care; intraocular; nebulization; pharmacy; preparations; topicals

Why Is Individually Designed Parenteral Therapy Important During Emergency Events?S9

Tajda Miharija-Gala; Spela Urb; Mojca Lubej

Keywords: administration, parenteral; cytotoxic agents; pediatrics; pharmacy; preparation; regulations; total parenteral nutrition

**Design for the New Production Line for Tablets in the Galenical Laboratory Unit
of Lekarna Ljubljana**S9

Mag Liljana Cop

Keywords: laboratories, galenical; investment; manufacture; pharmaceuticals; production; quality assurance

Finasteride and Prazosin Mixed Therapy in Patients with Benign Prostatic HyperplasiaS9

Col. Yousef Agha Alaie, MD; Saeed Saheb Kashaf, MD; Behzad Najafian, MD

Keywords: benign prostatic hypertrophy; finasteride; prazosin; side effects; symptoms; treatment; volume reduction

Tuesday, 02 September

Biological and Chemical Warfare

Animal Surveillance as an Indicator of Biological WarfareS9

Major Tiffany S. Cottrell, BVMS, MSc, MRCVS, RAVC

Keywords: animal surveillance; biological agents; Rapidly Deployable Outbreak Investigation Teams (RDOIT)

Plenary Session

Training of Medical Staff in the Management of Biological/Chemical Warfare

Psychological CasualtiesS10

Group Captain F.B. McManus

Keywords: advice; anxiety; casualties; environment; injuries; management; medication; panic; poisoning; psychiatry; treatment; triage; weapons, biological and chemical

Medical Counter-measures against Biological Warfare AgentsS10

Tim Brooks

Keywords: anthrax; antibiotics; antiviral agents; attack; bacteria; brucellosis; botulism; cost; immunomodulators; plaque; smallpox; terrorism; tularemia; vaccination; vaccines; viral; warfare, biological

Free Topics**The International Health Specialist ProgramS11***Lieut. Col. Eugene Bonventre***Keywords:** culture; efficacy; exercises; International Health Specialists; language; non-governmental organizations; Red Cross; security; U.S. Air Force; war, civil; World Health Organization**Organization-Methodic Problems of Established Medical-Diagnostic Standards in Trans-Border SituationsS11***Prof. Victor N. Preobrazhensky***Keywords:** aid; ARCDM; assistance; chemical events; diagnosis; earthquakes; evacuation; experience; organization; prevention; relief; standards; trans-border; triage; "Zaschita"**Emergency Medical Care in Mass Trauma and Methodology for Its RealizationS11***Dr. George Orakhelashvili***Keywords:** anesthesia, field; disasters; earthquake; efficiency; field hospitals; medical care; plan; surgery; trauma; victims**Presentation of Armed Forces Health Service / Veterinary Service of SAFS12***Major Brane Dolenc, dr.vet.med.***Keywords:** civil-military cooperation; dogs; epizootology; food; forces; Service; Slovenian Armed Forces; veterinary**Federal Armed Forces School of Dog HandlingS12***Marion Hornkamp, MD***Keywords:** armed forces; clinic; diagnostics; dogs; examination; Germany, purchasing; training; veterinarians;**Retinal Detachment Following LASIK: Management and Outcome in an Army HospitalS13***Seyed Hamid Parhizgar, MD***Keywords:** retinal detachment; LASIK; scleral buckling; surgery; visual acuity; vitrectomy**International Civil-Military Cooperation as Responding to Public Health Emergencies Associated with Weapons of Mass Destruction****The Sigonella Protocol: Results of a 1999 Meeting to Plan the Medical Response to the Release of Biological WeaponsS13***CDR Christopher D. Clagett, MC, USN, MD, MPH, PT***Keywords:** attack; biological warfare/tiological terrorism [BW/BT]; civilian; command; epidemiology; medico-legal issues; methods; military; plan; reassured**"Alert Not Alarmed" - The UK PerspectiveS13***Brian Butler***Keywords:** civil-military cooperation; command; communication; control; emergencies; government; information; preparedness; public; responsibility; United Kingdom;**The Sagbata ProjectS14***Dr. Flavio Del Ponte***Keywords:** chemical, biological, radiological, and nuclear (CBRN) agents; decision-makers; decision-support; NATO; planning; policy; Sagbata Project; tool; training; weapons of mass destruction (WMD)**Development of an Operational Component in the International Committee of Military Medicine for Militaries to Support International Outbreak Alert and ResponseS14***Major General Marcel Merlin, MD***Keywords:** alert; biological weapons; civilian Military cooperation; international assistance; International Committee of Military Medicine (ICMM); public health emergencies; response, international; World Health Organization**Civil Military Cooperation through the Laboratory Response NetworkS14***Stephen A. Morse, MSPH, PhD***Keywords:** anthrax; bioterrorism; bio-threat; Center for Disease Control and Prevention (CDC); civil-military cooperation; laboratories; Laboratory Response Network (LRN); public health; system; testing*Prehosp Disast Med 2003;18(S1):***New Concept for Multi-disciplinary Crisis ManagementS15***Brigadier Dag Hjelte, MD***Keywords:** chains of command; civil-military cooperation; command and control; crisis management; emergency response system; Norwegian Armed Forces; terrorism; threats

Civil-Military Cooperation in Responding to the Anthrax Attacks in 2001S15*Major Tony Littrell, MD, MPH***Keywords:** anthrax; bioterrorism; civil-military cooperation; USAMRIID**Wednesday, 03 September****Chemical/Biological Threat****Co-operation in the European Union on Preparedness and Response to Biological****and Chemical Agent Attacks (Health Security)S15***Germain Thinus***Keywords:** agents, chemical and biological; anthrax; attacks; contacts; detection; European Union (EU); guidelines; isolation; matrix; preparedness; public health; Q-fever; response; risk management; security, health; smallpox; terrorism; tularemia;**International Response to Disease Epidemics — Lessons From SARSS16***Dr. Randall N. Hyer, Medical Officer***Keywords:** collaboration; communication; infectious diseases; leadership; pneumonia; preparedness; response, international; severe, acute-onset, respiratory syndrome (SARS); surveillance; surge capacity; transparency**Role of the OPCW in Response to Chemical AccidentsS17***Dr. Clarence Brown***Keywords:** advice; assistance; chemical weapons; Chemical Weapons Convention (CWC); equipment; funding; Organisation for the Prohibition of Chemical Weapons (OPCW); protection; stockpiles**Preventing the Militarization of Biology: Biological Warfare Past, Present, and Potential FutureS17***Prof. Malcom Dando; Prof. M.L. Wheelis***Keywords:** microbiology; military; neurosciences; outcomes; revolution of life sciences; weapons, biological; weapons of mass destruction**Disaster Medicine****Hospital Disaster and Emergency PlanningS17***Jeffrey Arnold, MD, FACEP, FAAEM***Keywords:** disaster; emergency; hospital emergency incident command system (HEICS); hospitals; plan; planning; preparedness; response**Integrating Army and Civilian Weapons of Mass Destruction Incident ResponseS18***Tom Stein, MD***Keywords:** civilian; integration; military; U.S. Army Special Medical Augmentation Response Teams (SMART); weapons of mass destruction (WMD)**Mass Casualty Situations: Usefulness of UN Guidance on the Use of Military Civil Defence Assets in Disasters and Complex EmergenciesS18***Col. Silvio Porcu, IT AF***Keywords:** civilian; consequence management; cooperation; disasters; emergency medical services; guidance; health services; international disaster relief assistance; mass casualties; military; NATO; weapons of mass destruction**Disaster Medicine: Lessons Learned****Deployment of a Field Hospital into Disaster AreasS18***LTC (Ret.) Mauricio Lynn, MD***Keywords:** deployment; equipment; field hospitals; logistics; personnel; qualifications; siting; supplies**Medical Care to Children in a War RegionS19***Prof. Victor N. Preobrazhensky; Prof. Vladimir Rozinov, MD; Vladimir Petlakh, MD***Keywords:** bomb; Chechen Republic; children; explosion; field hospital; reanimation; referrals; Russian; surgery; telemedicine; war**The System of Anti-Epidemic Measures Against Biological Acts of TerrorismS19***N.I. Batrac, MD; A.A. Shaposhnikov***Keywords:** detection; disaster medicine; epidemics; evacuation; isolation; liquidation; responses; terrorism, biological; treatment**The United States Experience with Smallpox Vaccine: 2003S19***Col. Tom Stein, MD***Keywords:** complications; experience; lessons learned; military; outcome; smallpox; vaccine

Free Topics**Epidemiological Characteristics and Military Implications of Hemorrhagic Fever with Renal Syndrome in CroatiaS19***Rosanda Mulic, MD, PhD; Darko Ropac, MD, PhD***Keywords:** Croatia; epidemiological characteristics; hemorrhagic fever with renal syndrome; hosts; reservoirs**Epidemiological Characteristics and Military Significance of Q-Fever in CroatiaS20***Prof. Darko Ropac, MD, PhD; Rosanda Mulic, MD, PhD***Keywords:** army; Croatia; epidemics; incidence; outdoors; prevention; Q-fever; resistance; transmission**HIV/AIDS in Complex Emergencies: The Role of Military and PeacekeepersS20***Dr. Manuel Carballo; Mrs. Pamela Delargy***Keywords:** behavioral monitoring; complex emergencies; contributing factors; HIV/AIDS; military; peacekeeping; prevention; sub-Saharan Africa; social disorganization; training; war**How Can the Clinical Laboratory Prepare Against Environmental Contamination and Bioterrorism?S21***Ildikó Endreffy, PhD; L. Sved, MD; I. Kópcso, MD; F. Molnar***Keywords:** bioterrorism; clinical training; contamination; diagnosis; environment; European Union; information; laboratories; management; notification; techniques**Mass Poisoning with Carbon MonoxideS21***Damjan Grenc, MD; Lucija Sarc, MD; Miran Brovar, MD; Marija Jamsek, MD; Martin Mozina, MD***Keywords:** carbon monoxide; crisis; disaster; emergencies, large-scale; plan; poisoning; professionals; response**Benchmarking EMS Systems: A Contribution to a Comprehensive Public Health Monitoring System (A Working Report on the European Emergency Data Project)S21***Thomas Krafft, MD; Anke König***Keywords:** benchmarks; benefits; comparisons; data; effectiveness; efficacy; Emergency Medical Services (EMS); European Emergency Data system (EED); monitoring**International Activity of the Council on Cooperation in the Field of Public Health of NIS Countries for Emergencies and Acts of Terrorism Prevention and ReliefS21***Prof. V.B. Korbut; Prof. Ivan Ivanovich Sakhno***Keywords:** cooperation, international; coordination; disaster medicine; emergencies; exercises; NIS; prevention; public health; relief; supplies; terrorism; training**Public Health Affairs and Prophylactic Treatment of Individuals Exposed to Biological TerrorismS22***Mirjana Stantic-Pavlinic, MD, MSc***Keywords:** drugs; laboratory; micro-organisms; prescriptions; prophylaxis; schedules; terrorism, biological**Mustard Gas Exposure in Pediatric Patients (Long-Term Health Status of Mustard-Exposed Children 14 Years After Chemical Bombardment of Sardasht)S22***Shabriar Khateri, MD; Mostafa Ghanei, MD; M. Reza Soroush, MD; David Haines, MD***Keywords:** adults; chemical warfare; children; effects, chronic; lesions; mustard gas; symptoms**Afghanistan Humanitarian Relief Mission: The Singapore PerspectiveS23***Fatimah Lateef, MD***Keywords:** Afghanistan; aid; consequences; internally displaced persons; International Foundation; Pakistan; refugees; relief; Singapore**Organization of Medical Provision During Chemical Accidents or Acts of Terrorism in Russia . .S23***Prof. Sergei F. Goncharov; Prof. Victor B. Preobrazhensky***Keywords:** assessments; chemical events; integration; medical services; organization; relief; reserves; response; Russia; safety; teams; terrorism; training**Disaster Medicine: Psychological Issues****From Armenia to Algeria — 15 Years Together with Children during DisastersS23***Prof. Leonid M. Rosbal MD, PhD, DSc***Keywords:** certification; children; disasters; International Committee of the Red Cross (ICRC); medical care; non-governmental organizations (NGOs); pediatrics; relief; specialists; World Health Organization (WHO)

Protecting and Empowering Children in War SituationsS24
Dr. Anica Mikus Kos
Keywords: children; empowerment; models; protection; psychosocial; social networks; war; youths

Delivering Bad News in Catastrophic MedicineS24
Urska Lunder, MD
Keywords: anger; bad news; communications; depression; emotional concerns; general practitioners; knowledge; role-playing; simulations; skills

The Effects of an Earthquake on the Population and the Healthcare System of Vrancea, RomaniaS25
Col. (R) Nicolae Steiner, MD, PhD; Brig. Gen. Ion Dragusin
Keywords: algorithm; casualties; correlations; deaths; duration; earthquake; injuries; magnitude; predictions; seismic events; time

Medical Management of Disaster Training in RomaniaS25
Col. (R) Nicolae Steiner, MD, PhD
Keywords: disaster; management; modules; physicians; training

Massive Disaster Medicine Planning in the Desert – A 10-Year ExperienceS25
Dragan Aksentijevic, MD
Keywords: blood banking; disaster; logistics; planning; requirements; standardization; triage

Activity of Civil Public Health Bodies on Medical Provision of Refugees during Military ConflictS25
Prof. Ivan Ivanovich Sakhno
Keywords: consultations; disaster medicine; field hospitals; medical care; military; organization; public health refugees; roles; services; siting; staffing; structure; “Zaschita”

International Activity of the Council on Cooperation in the Field of Public Health of NIS Countries for Emergencies and Acts of Terrorism Prevention and ReliefS26
Prof. V.B. Korbut
Keywords: assistance, mutual; cooperation; coordination; Council on Cooperation; disaster medicine; doctrine; documents; emergency conditions; information; NIS; planning; relief; resources; training

Hospital Preparedness for Mass CasualtiesS26
LTC (Ret.) Mauricio Lynn, MD
Keywords: adaptation; events; hospitals; injuries; mass casualties; mechanisms; preparedness; responses; terrorism

Mass Casualty Terrorist Bombings: Implications for Emergency Department ResponseS26
Jeffrey Arnold, MD, FACEP, FAAEM
Keywords: bombing; disaster; emergency department (ED); explosion; mass casualty; terrorism

Terrorism, et al.S27
Marvin L. Birnbaum, MD, PhD
Keywords: 9/11; 11 September 2001; attacks; definition; fear; hazards; impact; insecurity; preparedness; resources; terror; terrorism

Plenary Sessions

Civilian-Military Cooperation and the Use of Military Assets in Disaster and Humanitarian Relief OperationsS27
Knut Ole Sundnes, MD
Keywords: barriers; civilian-military; cooperation; definitions; humanitarian assistance; missions; opportunities; threats

Advanced Technologies in Support of Military MedicineS28
Gerald R. Moses
Keywords: battlefield medicine; military medicine; technology

Advanced Technology and Medical Care: The Russian System for Disaster TelemedicineS28
Prof. Alexander Ehrlich, MD; Prof. Boris Kobrinsky, MD; Andrey Legoshin; Vladimir Petlah, MD; Prof. Vladimir Rozinov, MD; Valeriy Shabanov, MD
Keywords: advice; Chechen Republic; consultation; diagnostics; disaster; evacuation; field hospital public health; Russian; tactics; telemedicine

Thursday, 04 September 2003**Advanced Technology and Medical Care/Prehospital Care****Croatian Telemedicine Strategy Supports the Multilateral European Dynamic****Partnership Work Program Through Cooperative Content DevelopmentS29***Prof. DrSc Ivica Klapan***Keywords:** consultation; cooperation; Croatia; medical centers; NATO; partnerships; planning; technology; TeleMED; telemedicine**Defense Technology to Improve Civilian Prehospital Care: The E-Medics ProjectS29***Col. Timothy John Hodgetts, MMEd, MB, BS, FRCP, FRCSEd, FFAEM, FIMCRCSEd, FRGS, L/RAMC***Keywords:** data; electronic health record; "E-medics"; guidelines; management, system for; medical records; military; multiple casualty incident; prehospital**NATO Telemedicine Interoperability StudyS29***David M. Lam, MD, MPH***Keywords:** advice, clinical; diagnosis; disposition; e-mail; field medical unit; military; operation; relevance; support, medical; teleconsultation; treatment**Vision for Coalition Health Service Support, 2020 Time FrameS30***Jeff Drifmeyer***Keywords:** 2020; battlefield medicine; casualties, rates of; coalition; concept; doctrine; future; integration; medical care; military medicine; NATO; responses; technologies; telemedicine**The Swedish National Air Medevac (SNAM)S30***Hakan Osterhed***Keywords:** air ambulance; crisis; equipment; helicopters; medevac; mobile intensive care units; staff; Sweden; war**A Model of Major Trauma Audit to Improve Clinical Effectiveness in Both Civilian****and Military Field Hospital EnvironmentsS31***Col. Timothy John Hodgetts, MMEd, MB, BS, FRCP, FRCSEd, FFAEM, FIMCRCSEd, FRGS, L/RAMC***Keywords:** analysis; data; field hospitals, British; hospital ship; hospitals; indicators; injuries; Iraq; Kosovo; monitoring; trauma; trauma nurse coordinators**Maritime Radio-Medical Services: The Singapore General Hospital ExperienceS31***Fatimah Lateef, MD***Keywords:** communications; consultation; management; maritime; medical care; problems; radio-medical advice; Singapore; training; treatment**Devices for Airway Maintenance in Prehospital and Disaster MedicineS31***Prof. Marzio Mezzetti; Gratiliano Gai, MD***Keywords:** airway, alternative; Combitube; disaster; efficacy; emergency, laryngeal mask; laryngeal tube; oro-pharyngeal tube; prehospital**Trauma: Personal and Public NeedsS31***William Spear***Keywords:** caregivers; challenges; crises; psychosocial; trauma; victims**Monday, 01 September****Session 1: Blood Donor Response to the Outbreak of Natural Disasters, Terrorism, and War****Blood Supply and Demand in Disaster, Terrorism, and WarS32***Paul J. Schmidt, MD***Keywords:** availability; bioterrorism; blood; collection; disasters; donors; needs; transfusions; wars**Blood Donor Response to Continuous Terrorist ThreatsS32***Professor Eilat Shinar***Keywords:** blood; collection; components; distribution; donations; Israel; multicaseualty events; processing; requirements; supplies; terrorist attacks**Impact of War: Reflections on Blood Transfusion Services in BiH 1992–2002S33***Prof. Dr. Midhat Haracic***Keywords:** blood; Bosnia-Herzegovina; components, blood; demand; donors; education; effectiveness; efficiency; financing; legislation; management; quality; resources; standards; strategies; training; transfusion services; war

A Model of Medical Measures for Blood Transfusion Services for Mass CasualtiesS33*Azad Hajiyev, MD; Azer Kerimov, MD***Keywords:** analysis; blood; disasters; donors; fresh frozen plasma; plasmapheresis; processing; renal failure; safety; transfusions; trauma**Netherlands Military Blood Supply SystemS33***Charles C.M. Lelkens, SBB (ASCP)***Keywords:** Afghanistan; blood supply; Bosnia; frozen blood products; Iraq; military; Netherlands Military Blood Bank; Sanquin Blood Foundation**Military Support to Civil Blood Programs and vCJD DeferralS33***Donald R. Fipps***Keywords:** American Red Cross; civilian; deferral rate; onor; military; support; US Army Blood Services Program; volunteers**Tuesday, 02 September****Session 3: Logistics of Blood Supply****Blood Supply in SloveniaS34***Ljubisa Lukic, MD***Keywords:** albumin; blood; factor VIII; plasma; platelets; processing; quality assurance; red blood cells; Slovenia; transfusion**Clinical Perspective of Frozen BloodS24***Femke Noorman, PhD***Keywords:** blood bank; blood products; freezing; military; plasma; platelets; protocols; red blood cells; safety; supplies; transfusions**Vaccinia Immunoglobulin (VIG) Production in IsraelS34***Professor. Eilat Shinar***Keywords:** adverse events; antibodies; immunizations, mass; immunoglobulin: plasma; plasmapheresis; production; smallpox; vaccination; volunteers**Five Decades of Voluntary Blood-Donation ServiceS35***Srečko Zajc***Keywords:** blood; blood products; coordination; donation; motivation; Red Cross; Slovenia; supplies; transfusion; volunteers**Hemopure® (HBOC-201) Compared With Blood (PRBC) for Two-Unit Infusion in Orthopedic Surgery Following TraumaS35***Douglas M. Hansell, MD***Keywords:** adverse events; blood pressure; blood substitutes; hemoglobin; Hemopure; orthopedics; oxygen carriers; packed red blood cells; surgery; transfusions; trauma**Autologous Fibrin Glue: Synthesis and ApplicationS36***Lieut. Col. Kiro Georgievski, MD; Dragisa Galevski, MD; Mendo Shurbovski, MD; Aneta Gorgieva, MD***Keywords:** advantages; application; autologous fibrin glue; blood-borne diseases; glue; healing; side effects; synthesis; wounds, surgical**Self-Sufficiency: The Present Method of Blood Supply for SloveniaS36***Prof. Edvard Glaser, MD, PhD; Marjana Glaser, MD, PhD***Keywords:** self-sufficiency; Slovenia; transfusion institutions**WHO Approach to Quality and Safety: The WHO Quality Management****Programme for Blood Transfusion ServicesS36***Valentina Hafner; Neelam Dhingra, Shan Lloyd, Noryati Abu Amin; Jan Fordham***Keywords:** advocacy; blood; centers; consultation; management; networks; quality; safety; systems; training; transfusion; WHO**Session 6: Education and Training****WHO Concept of Training and Education in Transfusion MedicineS37***Dr. Matic Srdan, Dr. Valentino Hofner***Keywords:** blood; donation; education; guidelines; HIV/AIDS; prevention; resources; safety; testing; training; transfusion; WHO**The United States Military Tri-Service Blood Bank FellowshipS37***Maj Robert Pell***Keywords:** blood bank; clinical; didactic; fellowship; military

Civil-Military Cooperation in an Asymmetrical Security EnvironmentS37

David M. Lam, MD, MPH

Keywords: anthrax; civilian; cooperation; management, consequence; inventories; military; security; weapons of mass destruction; terrorism