Freeze Dried Plasma-
Experiences in the
German Armed Forces Medical Corps

J. Kerschowski LtCol MD
Federal Armed Forces Hospital, Ulm
General aspects

- Usage of FDP for many years in our hospitals and in military deployments
- Usage for all soldiers / patients despite of nationality
- Usage in (all) parts of the medical supply chain
General Aspects

- Trauma registry in military deployments started about 2007 but there are no data about FDP use available
- Usage data are not collected until now
- Data about the usage of FDP for the treatment of NATO-Allies are not immediately available
- All medical institutions are obliged to inform an authority about AE‘s and SAE‘s by the use of blood and blood products
- → until now no reports of AE‘s and SAE‘s by military institutions
Experiences in the Armed Forces Hospital Ulm

- Treatment of 134 Patients (2000-06‘2012) with 176 doses of LyoPlas
- Medium age 47 yrs (15-90), men 70%, women 30%, medium nr of doses 2,95 (1-11)
- Clinical Experience shows no differences to the results of the treatment with FFP
- Combination with RBCs, Platelets, AT III, Prothrombin Complex, Fibrinogen without Ae‘s and SAE‘s
- No further details available at the moment
Emergency Room

Advantages
- Quick availability
- Quick and easy handling (after instruction)
- Substitution of volume (in combination with RBCs)
- Substitution of coagulation factors (in combination with fibrinogen, Concentrates of coagulation factors, Novo seven)
Advantages

• Little logistic problems (transport, storage)
• Easy storage everywhere
• Easy handling
Experiences in KFOR FieldHospital Prizren

- Treatment of 8 Patients (2006-05‘2012) with 40 doses of LyoPlas
- Medium age 35 yrs (22-49), men 63%, women 37%, medium nr of doses 5 (2-12)
- Clinical Experience shows no differences to the results of the treatment with FFP
- Combination with RBCs, AT III, Prothrombin Complex, Fibrinogen without Ae‘s and SAE‘s

- No further details available at the moment
Med Evac

• Tactical Air MedEvac
  CH 53 GS
  C 160 Transall

• Strategic Air MedEvac
  CL 601 Challenger
  A 320 Airbus
Med Evac

Advantages

• Storage in the plane is possible
• Easy handling for reconstitution
  Especially with the Bag/Bottle-System
• Rapid infusion is possible by administration of pressure due to the new Bag/Bottle-System
• Quick and reliable availability
Future Aspects

Immediate usage in the first line of medical treatment

- Rescue helicopter
- Armoured Ambulance

Two RBCs in combination with two Freeze Dried Plasmas for the treatment of shock and coagulation
Logistical Aspects

- FDP is obtained by Army Pharmacies
- Transport to the deployments by plane and helicopter
- Storage of large amounts in the pharmacies of the deployments under control of the pharmacist
- Storage for immediate use in refrigerators of the Emergency Rooms under control of the anesthesiologist
Summary

Experiences in the application of FDP for many years

Necessary part of the treatment of patients either in a hospital, in MedEvac or in a field hospital