



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

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2nd RDCR-Symposium June 20th  
2012 Kerschowski

# 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

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# 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



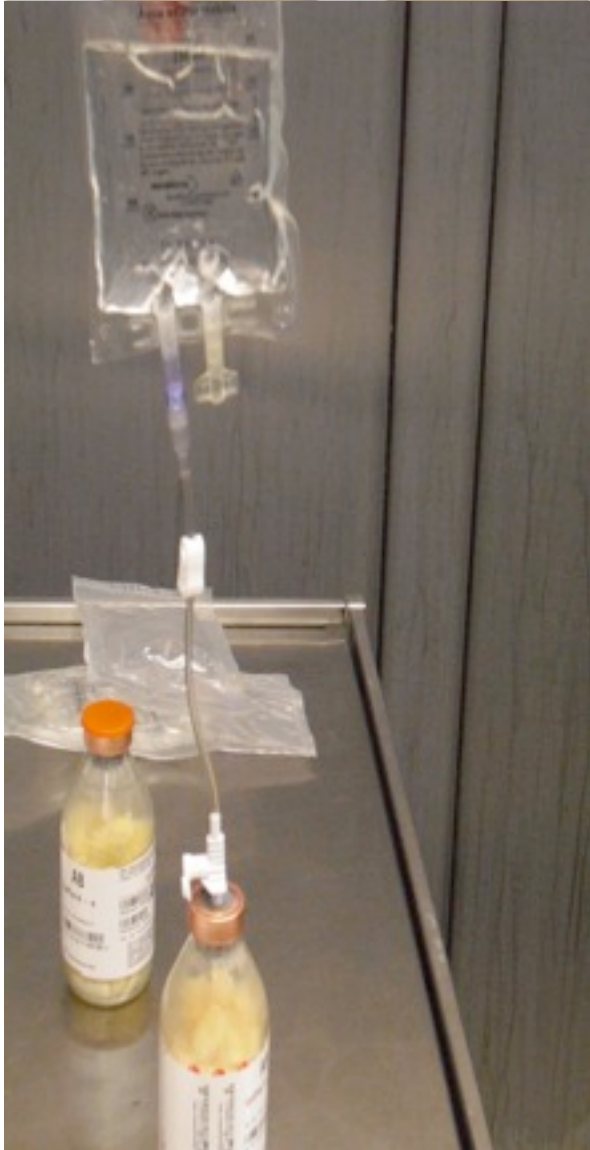
- Treatment of 134 Patients (2000-06‘2012) with 176 doses of LyoPlas
- Medium age 47 yrs (15-90), men 70%, women 30%, medium nr of doses 2,95 (1-11)
- Clinical Experience shows no differences to the results of the treatment with FFP
- Combination with RBCs, Platelets, AT III, Prothrombin Complex, Fibrinogen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

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# 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)



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# Operation Theatre



## Advantages

- Little logistic problems (transport, storage)
- Easy storage everywhere
- Easy handling

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# 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

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# Med Evac



- Tactical Air MedEvac  
CH 53 GS  
C 160 Transall
- Strategic Air MedEvac  
CL 601 Challenger  
A 320 Airbus

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# 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

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# Future Aspects

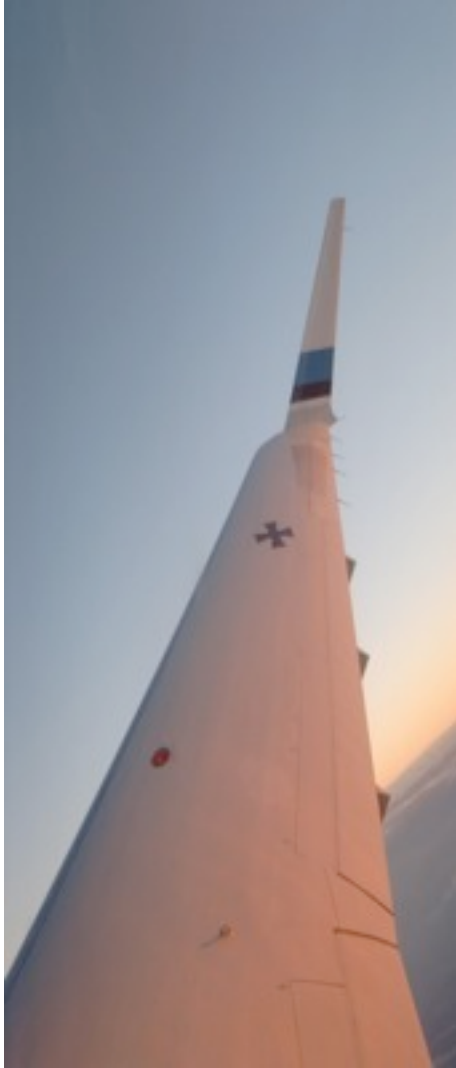


Immediate usage in the first line of medical treatment

- 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

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# 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

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