Clinical implementation of prolonged Liver Preservation and Monitoring through Normothermic Machine Perfusion in Liver Transplantation

NMP Indications
- Donor
  - ECD, DCD
  - await histological results
  - uncertain quality/function
- Recipient
  - retransplantation
  - preop assessment
  - preop treatment
- Logistics
  - resource management
  - scheduled procedure
  - surgical teaching

Interdisciplinary approach to NMP in clinical routine
- Tx-Coordinator:
  - Logistics
  - Communication
- Surgeon and Perfusionist:
  Set up and start of NMP
- Anesthesists/Nurses/Lab-Staff:
  - monitoring
  - sampling
- Transfer to NMP holding Facility /ICU
- Data review
  - Final decision

NMP in a multidisciplinary approach enables safe prolongation of liver preservation and overnight organ care
- 25 successful transplants
- 92% ECD livers
- 100% 30-day patient survival
- 0% ITBL (Ischemic Type Biliary Lesions)
- Omit nighttime procedures