



**BLOOD TRANSFUSIONS: A CORNERSTONE OF MODERN MEDICINE
TRANSITIONS INTO THE DIGITAL ERA**

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Blood Donor and Recipient Long-Term Outcome Study

Blood transfusions can save lives. Despite their routine use for nearly 150 years, the long-term effects are largely unknown. The "Blood Donor and Recipient Long-Term Outcome Study" (LOS) is a pioneering project set to illuminate the impacts of blood transfusions and donations on the health, immunity, and well-being of the patients by collecting data over a minimum of 30 years.



PRECISION MEDICINE IN TRANSFUSION PRACTICE

Current practice does not capture the long-term prevalence and risk factors of transfusion reactions, with yearly estimates of potentially 200,000 European patients developing alloantibodies against transfused erythrocytes and 15,000 experiencing leukocyte antigen alloimmunity. Given the young donor demographic, it is also paramount to study the consequences of regular blood donations. LOS will empower scientists and medical professionals to shape tailored transfusion practices that consider the patient's entire lifespan and individual risk factors.

AMPLIFYING PATIENT ENGAGEMENT WITHIN AN INTERDISCIPLINARY STAKEHOLDER ALLIANCE

The LOS study empowers patients by integrating them into transfusion medicine and research. LOS participants will receive expert-curated information on transfusion medicine and the study to enhance their knowledge and participation. At the heart of the LOS, the LOS Registry serves as a digital data hub, placing patients at the core of European transfusion medicine and fostering an ecosystem of stakeholders focused on patient-centered care. Collaboration with patient organisations, medical professionals, scientists, and health policymakers is vital.

LOS REGISTRY - SOPHISTICATED DIGITAL HAEMOVIGILANCE IN EUROPE AND WORLDWIDE

- Centralised data collection on blood donor/recipient outcomes.
- Adheres to EU haemovigilance and GDPR standards.
- Offers standardised, accessible, and interoperable real-time data.
- Enhances patient safety through progressive and tailored transfusion practices.
- Facilitates collaborative research and Open Science.
- Enables efficient blood management during global health threats.
- Diversity, democratic governance structures, and interdisciplinary Scientific Board.

The LOS Registry is seamlessly integrated into (inter)national haemovigilance structures, enhances patient participation in medical science and practice, advances digital transformation in healthcare, and will significantly and sustainably improve safety and quality standards in transfusion medicine. Thus, the LOS is pioneering work in one of the most important and oldest fields of modern medicine.