MAQUET is an international synonym for innovative and technological advances in operating rooms and intensive care units. MAQUET offer state-of-the-art quality products and services for the optimal treatment of patients and the best working conditions. MAQUET Cardiovascular has extensive experience in open and beating heart surgery, demonstrating its commitment with continuous innovation. Its product portfolio includes the entire range of perfusion systems, catheters and cannulae, as well as extracorporeal life support systems.

Contact of blood with foreign surfaces during extracorporeal circulation activates numerous cellular regulatory mechanisms and plasma cascade systems. Extracorporeal circulation systems unavoidably expose blood to extensive contact with various foreign materials. An appropriate coating system can minimize the deleterious effects of these contact activation mechanisms.

BIOLINE Coating ensures a homogenous surface and minimizes the blood damaging effects of foreign surfaces. It provides high biocompatibility and contributes to the high viability of blood cells coming into contact with all components of an extracorporeal circuit – tip to tip.

IMPROVED HEMOCOMPATIBILITY 
INCREASES SAFETY

BIOLINE Coating combines albumin and heparin. 
Covalent bonds between heparin molecules and the albumin layer guarantee exceptional stability of the coating. BIOLINE Coating ensures a homogenous surface that demonstrates preserved platelet function and a reduction in clotting activity, thrombus formation, and decreased activation of the complement system. BIOLINE provides optimal biocompatibility of all components in contact with blood.

How it works:
- BIOLINE Coating makes the surface more hydrophilic and homogenous, thus preventing cell and protein adsorption with all their negative effects.
- BIOLINE Coating securely binds to a wide variety of different materials, resulting in blood contact with only one material surface.
- Developed specially for use in extracorporeal systems, complete sets can be treated optimizing overall biocompatibility of all blood contact components.

References:
MAQUET has a successful history of providing hemo-compatible coatings for extracorporeal circulation systems. BIOLINE Coating is one of the most established coatings on the market and has an extensive body of published evidence.

Clinical benefits of BIOLINE Coating:
- Reduced clotting activity (TAT III and Prothrombin F 1.2)\(^8\)
- Reduction of platelet adhesion and of thrombi creation\(^9,11\)
- Reduced cerebral damage\(^9,10\)
- Less complement activation\(^7,10\)
- Decreased neutrophil activation\(^10\)
- Reduced inflammation\(^7,11,12\)
- Reduced fibrinolytic activity\(^11\)
- Complement factor C3 recovers better after 24 hours\(^5\)
- Less occurrence of abnormal high pressure gradients on oxygenator\(^6,13\)

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