TransMedics Confidential OCS-Liver 072014

International Randomized Trial to Evaluate The Effectiveness of The Portable Organ Care System (OCS™) Liver For Preserving and Assessing Donor Livers for Transplantation (OCS Liver PROTECT Trial)



Protocol Number OCS-LVR-072014

July 2014

TransMedics, Inc.

	200 Minuteman Road, Suite 302 Andover, MA 01810	
Sponsor Primary Contact:	Waleed Hassanein, MD President & CEO Phone: (978) 552-0901 Fax: (781) 998-0354 Email: whassanein@transmedics.com	
Sponsor Secondary Contact:	Tamer Khayal, MD Chief Medical Officer Phone: (978) 552-0902 Fax: (978) 552-0978 Email: tkhayal@transmedics.com	
CONFIDENTIAL – PROPRIETARY INFORMATION		

Sponsor:

TransMedics Confidential OCS-Liver 072014

OCS™ Liver PROTECT Trial Synopsis

Protocol Title	International Randomized Trial to Evaluate The Effectiveness of The Portable Organ Care System (OCS™) Liver For Preserving and Assessing Donor Livers for Transplantation (OCS™ Liver PROTECT Trial)
Objectives	To evaluate the effectiveness of the OCS™ Liver to preserve and assess donor livers intended for transplantation
Trial Design	A prospective, pivotal, international randomized trial
Trial Size	A maximum of 20 participating sites worldwide with 300 transplanted liver recipients
Screening and Treatment	Donor livers will be screened for trial eligibility. Eligible donor livers will be preserved either using the OCS™ Liver system (OCS group) or cold flush and storage using cold preservation solution (SOC group) Primary Liver transplant candidates will be screened for trial eligibility. Every eligible candidate will be asked to participate. Eligible liver transplant candidates will be randomized to receive either a donor liver preserved either on OCS™ Liver (OCS) or using cold preservation solution (SOC)
Donor Liver Eligibility Criteria	 Inclusion Donor livers suitable for preservation with either OCS or SOC and meets at least one of the following:
Recipient Eligibility Criteria	 Inclusion Registered male or female primary Liver transplant candidate Age ≥18 years old Signed: 1) written informed consent document and 2) authorization to use and disclose protected health information

TransMedics Confidential OCS-Liver 072014

	Evolution
	 Acute, fulminant liver failure Prior solid organ or bone marrow transplant
	 Chronic use of hemodialysis or diagnosis of chronic renal failure, defined as chronic serum creatinine of >3 mg/dl for >2 weeks and/or requiring hemodialysis Multi-organ transplant
Primary Endpoint	Primary liver graft dysfunction defined as presentation of one or more of the following criteria: • AST level > 2000 IU/ml within the first 7 postoperative days; • Bilirubin ≥ 10 mg/dl on postoperative day 7; • INR ≥ 1.6 on postoperative day 7; or • Primary non-functioning graft
Secondary Endpoints	 Patient survival at day-30 post transplantation Graft survival at day-30 post transplant Need for Renal replacement therapy, defined as requiring >2 dialysis treatments in the first 10 days post liver transplantation
Other Endpoints	 Length of initial post-transplant ICU stay Length of initial post-transplant hospital stay Evidence of biliary strictures diagnosed at 6, 12 or 24 months
Safety Endpoints	 Incidence of liver graft related Serious Adverse Events (SAEs) in the first 30 days post liver transplantation, defined as: Primary non-function (defined as irreversible graft dysfunction requiring emergency liver re-transplantation or death with the first 10 days, in the absence of immunologic or technical causes); Biopsy proven acute rejection; Biliary complications (biliary strictures, anastomotic and non-anastomotic bile duct leaks); Vascular complications (non-surgical bleeding, hepatic artery stenosis, hepatic artery thrombosis and portal vein thrombosis); Liver graft related infections (liver abscess, cholangitis, etc.)
Follow-up	All patients will be followed for up to 2 years post-transplant.
Trial Sponsor	TransMedics, Inc. 200 Minuteman Road, Suite 302 Andover, MA, USA 01810