Clinical support for Kidney perfusion

**Birmingham study shows LifePort® helps improve kidney transplant patient outcomes**

**Donor organs can be preserved safely overnight for optimal surgery times**

Lifeline Scientific (AIM: LSIC), the transplantation technology company, welcomes the publication in *Experimental and Clinical Transplantation* of the clinical study (‘Study’): “Hypothermic Machine Perfusion Permits Extended Cold Ischemia Times With Improved Early Graft Function.”

The Study was led by Drs. Andrew Ready, Alison Guy, and colleagues in the Department of Renal Surgery at the New Queen Elizabeth Hospital Birmingham, one of the UK’s largest centres for renal transplantation. The Study employed Lifeline’s state-of-the-art hypothermic machine preservation device, LifePort Kidney Transporter, for the preservation of deceased-donor kidneys transplanted out of normal surgery hours, while static cold storage (i.e. a box of ice) was used to preserve all kidneys transplanted between 8am and 8pm.

The Study demonstrated that improved early graft outcomes following longer periods of *ex vivo* preservation can be achieved by using hypothermic machine perfusion versus static cold storage. The Study investigators concluded that the observed effect is likely multifactorial including the inherent effects of hypothermic machine perfusion, improved transplant recipient preparation, and possibly better perioperative conditions as a result of transplants being scheduled during normal hours of operation versus expedited emergency-style procedures.

The authors noted that one of the enduring tenets of transplant is to minimize the cold preservation time of an organ prior to transplant, and stated that “to accommodate this belief, transplants may be performed on emergency operating lists staffed by surgical teams with limited experience in treating the specific needs of patients who have renal failure.” The authors further observed that such circumstances carry “an inherent risk that patient care may fall below a level of excellence.”

The Study findings led the New Queen Elizabeth Hospital to implement a protocol to place all of their deceased donor kidneys intended for transplant on the LifePort Kidney Transporter. After learning of these findings Belfast City Hospital, Northern Ireland, was inspired to adopt LifePort where conditions often require longer preservation times for donor kidneys prior to transplant.

**Commenting David Kravitz, CEO of Lifeline Scientific, said:**

“We applaud the work of Dr. Ready and his colleagues on the publication of these important beneficial aspects of machine preservation with LifePort. These findings are consistent with clinical experiences we have observed in major transplant centres worldwide.

“We have seen that as awareness grows of LifePort’s capability to allow for safe long-term preservation of donated kidneys, transplant surgeons are able to schedule surgery as a daytime procedure rather than an expedited emergency. It makes good sense that this extra time provides opportunity for patients, their families, surgeons and staff to be better rested and prepared, to help ensure better outcomes from surgery.”

**For further information:**

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About Lifeline Scientific Inc.
Lifeline Scientific, Inc. is a Chicago-based global medical technology company with regional offices in Brussels and Sao Paulo. The Company's focus is the development of innovative products that improve transplant outcomes and lower the overall costs of transplantation. Its lead product, LifePort Kidney Transporter, is the global market-leading medical device for hypothermic machine preservation of donor kidneys. LifePorts and novel solutions designed for preservation of other organs are in development, with LifePort Liver Transporter next in line for commercial launch. For more information please visit www.lifeline-scientific.com

About LifePort Kidney Transporter
Created with the challenges of organ recovery and transport in mind, LifePort Kidney Transporter is a proprietary medical device designed to help improve kidney preservation, evaluation and transport prior to transplantation. It has been widely studied in clinical trials throughout the world and is the standard of care for machine preservation of kidneys. Employed by surgeons in over 193 leading transplant programmes in 28 countries, LifePorts have preserved more than 50,000 kidneys indicated for clinical transplant. For more information please visit www.organ-recovery.com

About LifePort Liver Transporter
LifePort Liver Transporter is modelled upon the clinically proven technology platform of LifePort Kidney Transporter and the Company’s early HMP prototype successfully used in clinical transplant studies by surgeons at New York-Presbyterian Hospital/Columbia University Medical Center. LifePort Liver Transporter and the Company’s proprietary machine preservation solution, Vasosol®, are in the process of US and European regulatory registrations. The system is designed to help improve outcomes in liver transplantation by enabling the clinical use of hypothermic machine perfusion, and has been developed in consultation with clinical and research teams specializing in liver transplantation at Columbia University Medical Center and the University of Chicago. The system employs a rugged, streamlined ergonomic design for ease of use and transportability from donor bedside to recipient operating room. For more information please visit: http://www.organ-recovery.com/pipeline.php