A vessel on the open edge of a 10 cm X 20 cm MIROMESH® was cannulated and a flowable material was injected into the graft to demonstrate the presence of the native liver vasculature, including the capillaries.
MIROMESH\textsuperscript{®} demonstrated significantly greater total strength of repair at 6 and 12 months.

Histology of representative images at 1, 2, 6 and 12 months stained with H&E. Histological characterization of MIROMESH\textsuperscript{®} demonstrates advanced remodeling at 6 and 12 months, supporting the mechanical data.

MIROMESH\textsuperscript{®} maintained greater thickness throughout the time points compared to Strattice\textsuperscript{™} Matrix.

All images were captured at the sample magnification (4X).

Study conducted by J. Scott Roth, MD, FACS, Chief of Gastrointestinal Surgery, University of Kentucky College of Medicine in a porcine model. Preclinical data on file at Miromatrix Medical Inc. This study was conducted by J. Scott Roth, MD, FACS on behalf of Miromatrix. Results may not correlate to clinical performance. As with any study, there are strengths and limitations to the data.
An in vivo analysis of MIROMESH® – a novel porcine liver prosthetic created by perfusion decellularization

Journal of Surgical Research 201 (2016) 29-37, Clayton C. Petro, MD, Ajita S. Prabhu, MD, Lijia Liu, MD, Arnab Majumder, MD, James M. Anderson, MD, PhD, and Michael J. Rosen, MD

Suprior Cellular Integration

"Grossly, all Strattice™ (a) samples demonstrated few adhesions, no neoperitoneum and a weak tissue-mesh interface. When a good tissue-mesh interface was present, MIROMESH® samples had a dense neoperitoneum and strong tissue interface (b)."

Conclusion: "MIROMESH® demonstrated a superior degree of cellular infiltration with equivalent clearance of a bacterial inoculum compared to Strattice™."

MIROMESH® rinsed with vancomycin solution & inoculated with Staphylococcus aureus

Strattice™ rinsed with vancomycin solution & inoculated with Staphylococcus aureus

"MIROMESH® samples...demonstrate superior cellular infiltration compared to Strattice™."

Mesh (M) demarcated
90 day small animal study

* Quotations from the oral poster presentation at the Abdominal Wall Reconstruction Conference in June, 2015
Results may not correlate to clinical performance. As with any study, there are strengths and limitations to the data.
MIROMESH®

PERFUSION DECELLULARIZATION OF MAJOR ORGANS

LUNG

The successful perfusion decellularization, recellularization, and transplantation of a rat lung in a rat model to demonstrate oxygen transport

LIVER

The successful revascularization and transplantation of a re-endothelialized perfusion decellularized whole liver into a pig model followed by an angiogram after 1 hour to demonstrate the lack of thrombosis

KIDNEY

Following 1 hour of native blood flow through the revascularized liver, radiopaque dye was infused to demonstrate the lack of thrombosis and maintenance of the capillary beds

The successful perfusion decellularization, recellularization and transplantation of a rat kidney in a rat model to demonstrate urine production

See IFU for full prescribing information and warnings.

MIROMESH® Biologic Matrix is intended to be implanted to reinforce soft tissue and is also intended for implantation to reinforce soft tissue where weakness exists in patients requiring soft tissue repair of reinforcement in plastic and reconstructive surgery. Rx Only.

REFERENCES
2. Study performed at Miromatrix Medical Inc. and The Mayo Clinic.

The future is now

Miromatrix is engaged in the development of fully biological human organs for transplant. This work has progressed at a rapid pace and is applicable to liver, kidney, lung, pancreas, heart, bone and a variety of other tissues and organ components (for example, heart valves). The positive conclusion of our efforts will mean an end to the organ transplant waiting list and such incredible things as the elimination of much of dialysis and a cure for liver failure. We intend to revolutionize patient care and to truly make a difference.

The future is now

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