



Omega 3 Fatty Acid (O3FA) Bioabsorbable **Coated Mesh**



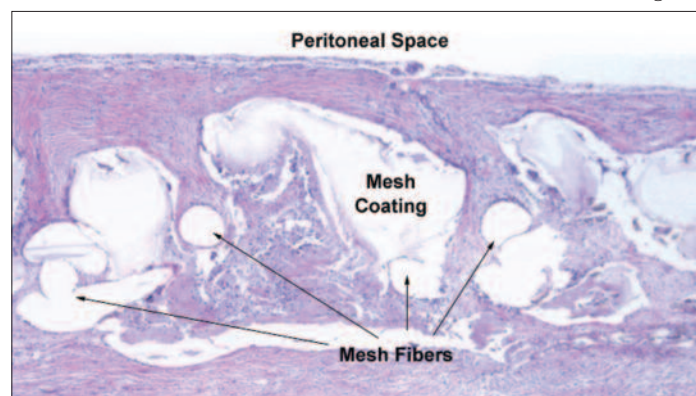
O3FA | *Omega 3
BioAbsorbable Oil
Coating Technology*

SUPERIOR HEALING WITH OMEGA 3 TECHNOLOGY

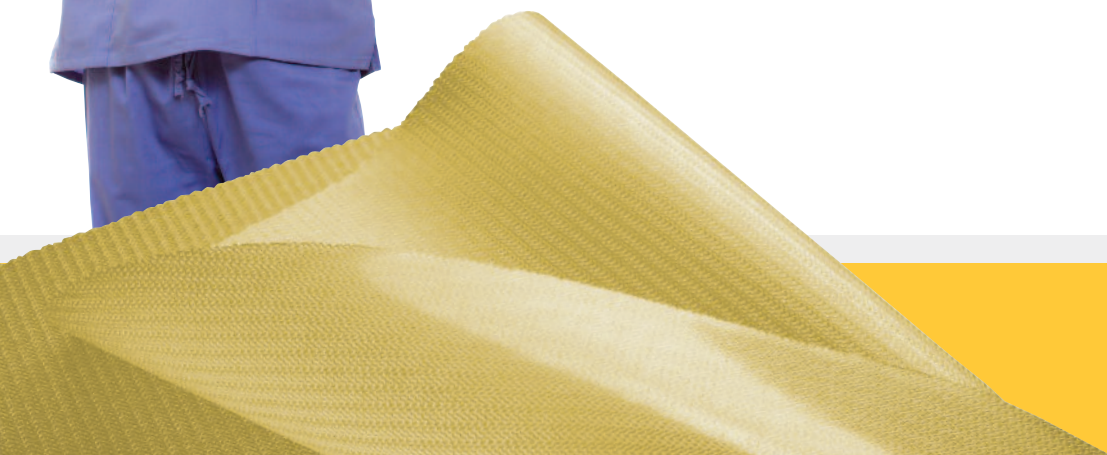
Atrium's C-QUR™ Family of soft tissue repair products combine the clinically proven ProLite™ polypropylene with an advanced Omega 3 fatty acid (O3FA) coating technology to provide patients with a durable, long lasting repair, and a more natural healing experience.

Figure 1

In pre-clinical studies, the Omega 3 fatty acid coated polypropylene mesh exhibited significantly less inflammatory cell recruitment than bare polymer, uncoated polypropylene mesh products, resulting in a more complete and fully incorporated repair (fig. 1).



Histology shows complete tissue incorporation with minimal inflammatory response.



Check Out Our Family of Products to Suit All Your Hernia Mesh Needs

FAVORABLE CLINICAL OUTCOMES

Additionally, C-QUR has compared favorably in both clinical and pre-clinical studies to several commercially available products commonly used for intraperitoneal hernia repair. When evaluated for extent of visceral tissue attachment and mesh contraction, C-QUR performs as well or better than the other currently marketed products (Tables 1 & 2).

Table 1. Adhesion Properties and Mesh Contraction

	Tissue Attachment Amount (%) 120 Days	Tissue Attachment Tenacity (1-4) 120 Days	Mesh Contraction (%) 120 Days
C-QUR™	3.0 ± 7.3	1.2 ± 0.4	3.3 ± 2.1
ProLite Ultra™	10.7 ± 19.8	1.7 ± 1.1	9.1 ± 8.3
Composix®	24.8 ± 37.0	1.9 ± 1.2	7.2 ± 7.1
DualMesh®	1.4 ± 4.4	1.3 ± 0.9	39.0 ± 6.0
Parietex®	0.8 ± 2.0	1.2 ± 0.4	14.7 ± 5.0
Proceed®	28.8 ± 16.1	2.8 ± 1.0	29.7 ± 12.5
Sepramesh®	0.0 ± 0.0	1.0 ± 0.0	6.4 ± 8.4

Pierce, R.A. et al. "120-Day Comparative Analysis of Adhesion Grade and Quantity, Mesh Contraction, and Tissue Response to a Novel Omega-3 Fatty Acid Bioabsorbable Barrier Macroporous Mesh After Intraperitoneal Placement." *Surg Innov* (2009) Volume 16, Number 1, 46-54.

Table 2. Adhesion Characteristics of Intraperitoneal Mesh

	Adhesion Tenacity (1-4)	Adhesion Surface Area (1-10)	Adhesiolysis Time/Mesh Surface Area (min/cm²)
C-QUR™ (n= 5)	2.8 ± 0.4	4.8 ± 1.8	0.14 ± 0.1
Uncoated Polypropylene (n=12)	3.5 ± 0.9	8.4 ± 1.1	0.38 ± 0.4
Composix® (n=17)	3.5 ± 0.6	8.6 ± 1.1	0.36 ± 0.1
DualMesh® (n=14)	2.4 ± 0.6	5.9 ± 1.8	0.12 ± 0.1
Parietex® Composite (n=1)	3	6	0.25
Proceed® (n=8)	3.4 ± 0.5	8.1 ± 1.5	0.28 ± 0.1
Sepramesh® (n=4)	3.3 ± 0.5	7.5 ± 1.3	0.16 ± .01
Biologic Mesh (n=8)	2.9 ± 0.4	6.6 ± 1.8	0.33 ± 0.1

Jenkins, E. D. et al. "Prospective Evaluation of Adhesion Characteristics to Intraperitoneal Mesh and Adhesiolysis-related Complications During Laparoscopic Re-exploration After Prior Ventral Hernia Repair." *Surg Endosc* (2010) Volume 24, Number 12, 3002-3007.

With numerous design configurations and sizes available for virtually every hernia procedure, the C-QUR Family of soft tissue repair products empowers the surgeon to choose the right mesh reinforcement for their patients' needs, including patient comfort, safety and long term recovery.

"The C-QUR Mesh has emerged as a first-line choice because it is particularly well suited to address the issues encountered during hernia surgery."

David Earle, MD, FACS

Assistant Professor of Surgery
Director, Minimally Invasive Surgery
Baystate Medical Center
Tufts University School of Medicine
Springfield, Massachusetts

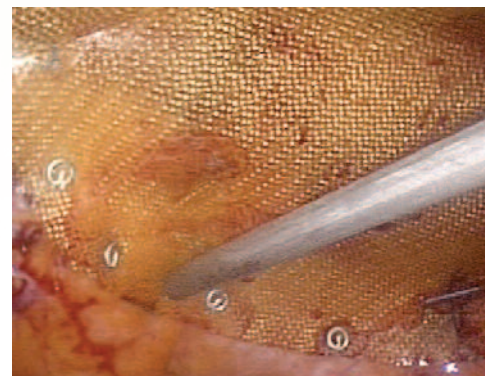
General Surgery News Special Report
The Benefits of Omega-3 Fatty Acid-Coated Mesh in Ventral Hernia Repair

C-QUR Film Coated Mesh

Designed for **open** and **laparoscopic** hernia repair when a tissue separating layer is needed

C-QUR™ Mesh combines Atrium's ProLite™ polypropylene mesh with a **tissue separating film layer** of all-natural, pharmaceutical grade Omega 3 fatty acid. A perfect choice for intra-abdominal placement, C-QUR™ Mesh outperforms all competitive products in regards to handling, positioning and fixation stability, while providing a more natural healing experience for the patient.

- Atrium's ProLite™ polypropylene mesh construction provides optimal burst and fixation retention strength necessary for today's challenging hernia patients
- Tight trocar roll up capability with minimal edge curl
- Exceptional see-thru clarity helps surgeon identify anatomical landmarks and assure proper mesh fixation
- Ability to trim and customize mesh shape at the surgeon's discretion, without loss of strength



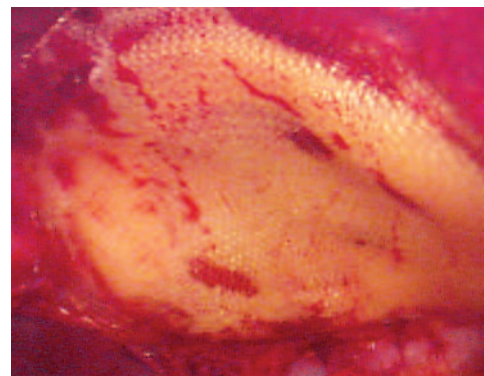
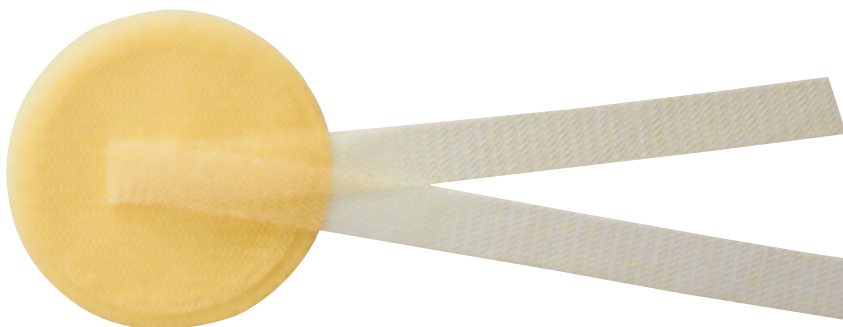
Laparoscopic view of C-QUR following surgical implantation

C-QUR V-Patch Film Coated Mesh

Designed for the repair of small hernias such as **umbilical**, **epigastric** and **trocar site** defects

C-QUR V-Patch™ combines the clinically proven performance of ProLite™ polypropylene mesh with an all-natural, pharmaceutical grade Omega 3 fatty acid (O3FA) bioabsorbable coating and advanced deployment technology.

- Exclusive advanced deployment system allows for easy implantation of the device through a small defect
- Non-distorting fixation straps provide uniform lift and conformability towards abdominal wall, maximizing contact for uniform and complete tissue incorporation
- All natural O3FA coating provides less foreign body reaction for faster, more complete mesh incorporation
- Only umbilical patch with an all-natural absorbable coating



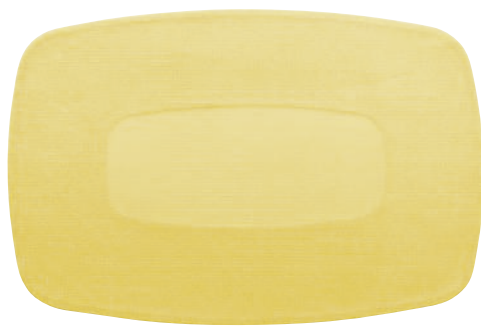
Laparoscopic view of C-QUR V-Patch™ following surgical implantation.

C-QUR TacShield Film Coated Mesh

Designed for the surgical repair of **medium to large size open ventral** hernia repairs

C-QUR TacShield™ combines the C-QUR™ Mesh platform with advanced fixation guidance technology for open abdominal wall repair. C-QUR TacShield™, with its novel **Symmetrical Fixation Apron (SFA)**, provides improved handling, and fixation guidance for enhanced surgical convenience and patient protection.

- Unique Symmetrical Fixation Apron provides enhanced fixation guidance, stability, and protection
- Simplifies surgical placement and alignment of the mesh
- Saves time in the operating room when compared to traditional, single layer mesh products
- Available in a wide variety of sizes



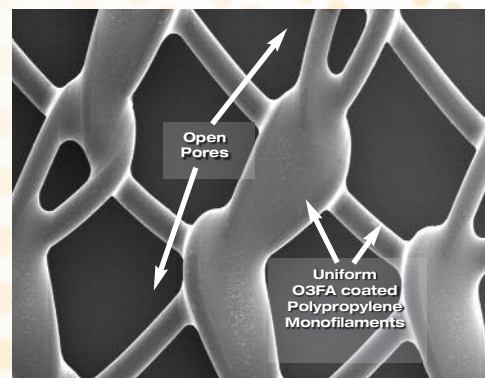
Open ventral hernia repair using C-QUR TacShield™

C-QUR **FX** Filament Coated Mesh

Designed for **open** and **laparoscopic** hernia repair
when a tissue separating layer is not needed

C-QUR™ FX filament coated mesh is the open pore ProLite™ family of polypropylene mesh with an absorbable, 30-day, all-natural pharmaceutical grade Omega 3 fatty acid coating. The open pores and filament coating help promote faster, more complete incorporation throughout. The O3FA coating also provides **uncompromised memory** with **significantly improved handling vs. non-coated bare polymer mesh products.**

- Incites a less severe inflammatory response when compared to bare polymer meshes allowing for less fibrous formation and less rigid tissue incorporation
- Preferred handling with uncompromised memory and see thru clarity
- Optimal burst and fixation retention strength



Individual mesh monofilaments coated with Omega 3 fatty acid (O3FA) improve handling and healing

C-QUR™ Mesh

	Part No.	Cm	Inches	Box Qty.
Round	31505	9	3.54	1 each
	31506	13	5.12	1 each
	31507	15	5.90	1 each
Square / Round	31543	8.9 x 8.9	3.5 x 3.5	1 each
	31544	12.5 x 12.5	5 x 5	1 each
Oblong / Oval	31526	7.5 x 15	3 x 6	1 each
	31528	10 x 15	4 x 6	1 each
	31527	11 x 14	4.3 x 5.5	1 each
	31531	13.5 x 17.8	5.4 x 7	1 each
	31533	15 x 20.3	6 x 8	1 each
	31534	15 x 23	6 x 9	1 each
	31538	16 x 31.2	6.3 x 12.3	1 each
Mid-Line Oval	31535	17.8 x 23	7 x 9	1 each
X-Large Oblong / Oval	31536	20.3 x 25.4	8 x 10	1 each
	31537	20.3 x 30.5	8 x 12	1 each
	31540	25.4 x 35.5	10 x 14	1 each
	31542	30.5 x 45.7	12 x 18	1 each

C-QUR TacShield™

	Part No.	Cm	Inches	Box Qty.
Round	31610	11.4	4.5	1 each
	31626	7.5 x 15	3 x 6	1 each
	31628	10 x 15	4 x 6	1 each
Oblong	31644	12.5 x 12.5	5 x 5	1 each
	31633	15 x 20.3	6 x 8	1 each
	31636	20.3 x 25.4	8 x 10	1 each
	31637	20.3 x 30.5	8 x 12	1 each
	31638	16 x 31.2	6.3 x 12.3	1 each
	31611	22.1 x 27.1	8.7 x 10.7	1 each
	31612	27.4 x 34.9	10.8 x 13.7	1 each
Oval				

C-QUR V-Patch™

	Part No.	Cm	Inches	Box Qty.
	31200	4.3 x 4.3	1.7 x 1.7	1 each
	31201	6.4 x 6.4	2.5 x 2.5	1 each
	31202	8.0 x 8.0	3.2 x 3.2	1 each

C-QUR™ FX

	Part No.	Cm	Inches	Box Qty.
Square / Round	31324	7.5 x 7.5	3 x 3	1 each
	31332	15 x 15	6 x 6	1 each
	31341	30.5 x 30.5	12 x 12	1 each
Oblong / Oval	31322	5 x 10	2 x 4	1 each
	31326	7.5 x 15	3 x 6	1 each
	31328	10 x 15	4 x 6	1 each
	31336	20.3 x 25.4	8 x 10	1 each
	31340	25.4 x 35.5	10 x 14	1 each
	31342	30.5 x 45.7	12 x 18	1 each
Onlay / Pre-Shape <i>No Hole and Slit</i>	31311	6.4 x 14	2.5 x 5.5	6 each
Onlay / Pre-Shape <i>With Hole and Slit</i>	31212	6.4 x 14	2.5 x 5.5	6 each
Laparoscopic / Pre-Shape <i>With Hole</i>	31385	10.5 x 14.6	4.1 x 5.7	1 each
<i>No Hole</i>	31388	10.5 x 14.6	4.1 x 5.7	1 each

Additional sizes pending. Please refer to our website www.atriummed.com for a complete listing of C-QUR™ products.

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