

extearna[®]
costal cartilage allograft



THE **FIRST AND ONLY**
ALLOGRAFT SPECIFICALLY FOR
TOTAL EAR RECONSTRUCTION






mtfbiologics
Soft Tissue, Aesthetics and Reconstruction

THE IDEAL OPTION FOR EAR RECONSTRUCTION

Now there's another, better option available for total ear reconstruction!

Comprised of donated human costal cartilage from ribs 5-8, Extearna® combines the benefits of traditional materials used in total ear reconstruction, without any of the disadvantages.

Total Ear Reconstruction Options			
	Autologous Costal Cartilage	Medpor Synthetic Graft	Extearna
			
Benefits	Autologous Costal Cartilage	Medpor Synthetic Graft	Extearna
Low risk of complications such as: Infection, Extrusion, Implant failure, Fracture	✓	✗	✓
Low risk of chest wall deformity	✗	✓	✓
Minimal pain and scarring	✗	✓	✓
Short hospital stay (1-2 nights)	✗	✓	✓
Short recovery time	✗	✓	✓
Reconstruction can be performed at an earlier age	✗	✓	✓

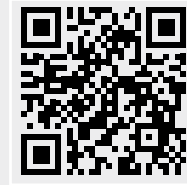
SAFETY AND QUALITY, FROM DONOR TO RECIPIENT

It starts with better donors

MTF adheres to a stringent donor criteria, ensuring only safe, high quality donor tissue is used to make Extearna.

In fact, after screening for more than 50 medical conditions including infectious diseases, autoimmune conditions, and malignancy, **MTF accepts only *2% of donors** offered to us by the procurement agencies with which we work.

Screening Criteria		
MTF Biologics	Industry	FDA
50+	20	10



Click or scan this code for a full table of MTF screening criteria

*2019 data on file at MTF Biologics

And continues with aseptic processing

MTF uses gentle yet effective disinfection methods that ensure safety without compromising graft integrity. MTF **never terminally irradiates our tissues**. Clinical studies show allograft cartilage is compromised when exposed to high dose gamma irradiation.¹

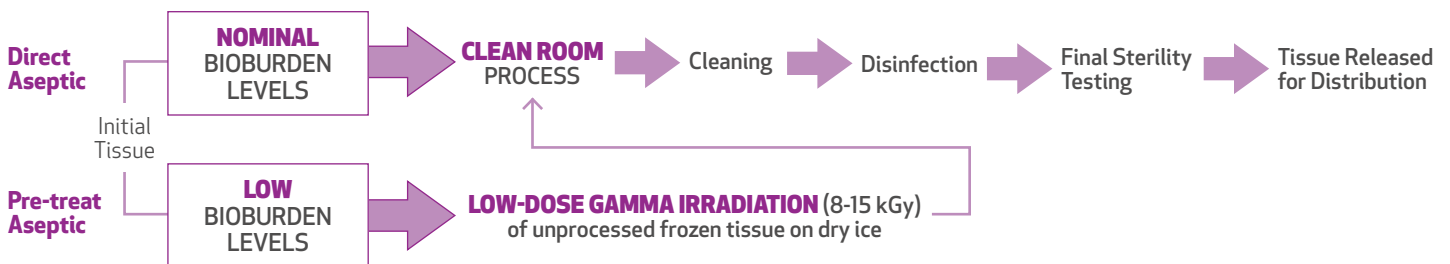
Instead, MTF employs aseptic technique throughout the process, from pre-production bioburden assessment to post-production sterility testing, to ensure grafts are safe for your patients.

MTF Aseptic Processing

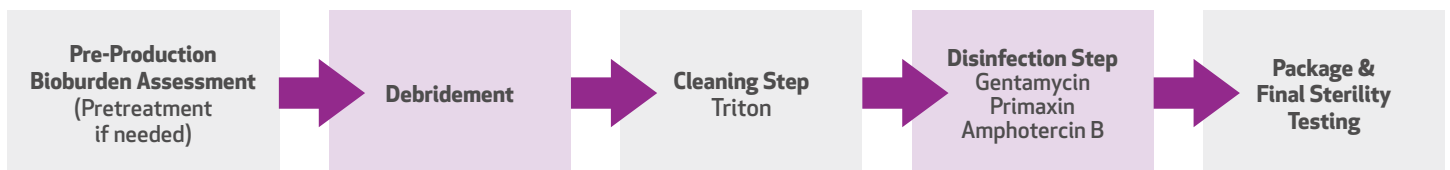


- Our clean rooms in which Extearna grafts are cut and processed are **Class 4**, or **1,000 times cleaner than a typical OR!**
- **HEPA filters** are used to purify the air
- Only **sterile solutions**, including sterile water and detergents, are used throughout the process
- Each technician wears **medical grade protective equipment**
- Every technician submits gloved **fingertip and thumb samples** via contact plates
- Environmental testing of clean room surfaces and equipment is required
- Final sterility testing must show no growth before graft is released

MTF Biologics Aseptic Processing Methods



Extearna Process



EXTEARNA GRAFT SIZES

Since the first graft was implanted in August 2020, nearly 170 Extearna grafts have been distributed to more than 25 hospitals and medical institutions, providing surgeons and patients a better option for total ear reconstruction.

Extearna is available in two sizes* and is only made from donors age 12-20 so cartilage is malleable and easily carved and shaped into ear anatomy.

Item #	Description	L (cm)	L1 (cm)	L2 (cm)	W (cm)	W1 (cm)
450012	Extearna® Costal Cartilage, Left, Lg	≥5.5	≥9.0	≥8.0	≥3.0	≥2.5
450125	Extearna® Costal Cartilage, Left, Sm	≥5.5	≥9.0	0-7.9	≥3.0	≥2.5
450013	Extearna® Costal Cartilage, Right, Lg	≥5.5	≥9.0	≥9.0	≥3.0	≥2.5
450135	Extearna® Costal Cartilage, Right, Sm	≥5.5	≥9.0	0-7.9	≥3.0	≥2.5

*Small codes 450125 and 450135 contain no or shorter rib 8 cartilage than 450012 and 450013 codes. Contact MTF Customer Service for exact length on a particular graft.



To place an order, please contact MTF Customer Service
Orders mtfop@mtf.org / +1 (800) 433-6576
Other Inquiries +1 (732) 661-0202

Helpful Extearna Links



Extearna clinical abstracts
https://www.mtfbiologics.org/extearna_abstracts



Extearna Technique Guide including instructional videos
https://www.mtfbiologics.org/extearna_techguide



Pix11 Newstory-One family's experience with Extearna
<https://pix11.com/news/local-news/long-island/li-boy-5-gets-new-ear-thanks-to-life-changing-surgery/>



MTF Craniofacial landing page
<https://www.mtfbiologics.org/craniofacial>

References

1. Martinho, A.C., Rosifini Alves-Claro, A.P., Pino, E.S. et al. Effects of ionizing radiation and preservation on biomechanical properties of human costal cartilage. Cell Tissue Bank 14, 117-124 (2013). <https://doi.org/10.1007/s10561-012-9306-4>



125 May Street, Edison, NJ 08837 USA • (800) 433-6576 • +1 (732) 661-0202

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