

Remodel
the mitral annulus

Healthy left ventricle



Reform
the left ventricle

Edwards GeoForm Ring

Unique geometric design
for the reduction of MR and
improvement of ventricular function



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LIFESCIENCES

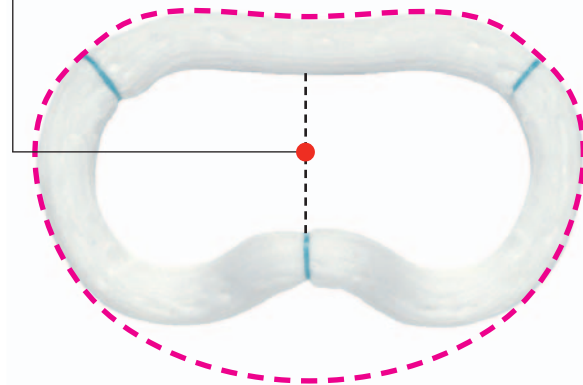
GEOMETRIC

REFORMATION

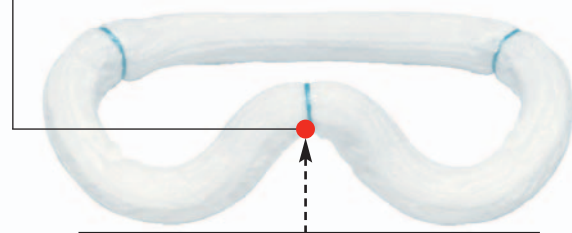
Remodel the mitral annulus

The GeoForm ring is geometrically designed to restore leaflet coaptation and reduce mitral regurgitation (MR) caused by the enlargement of the left ventricle.

Reduced anteroposterior (AP) distance (41% reduction)* — brings the annulus inward to counteract the outward pull of the enlarged left ventricle



Elevated P2 (6 mm lift) — raises the mitral valve apparatus to counteract the downward pull of the enlarged left ventricle

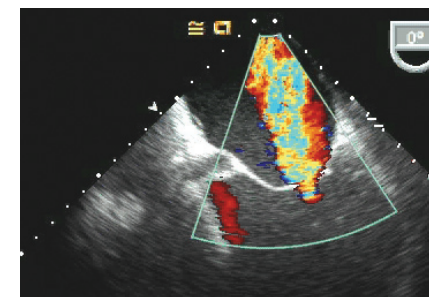


Reform the left ventricle

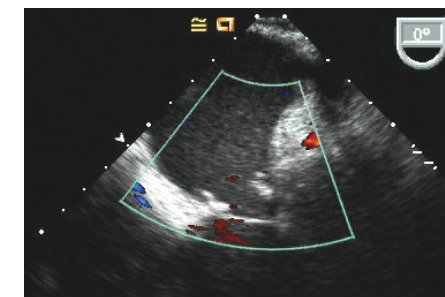
Remodeling the mitral annulus with the GeoForm ring reforms the shape and function of the left ventricle, aiming to halt the cycle of ventricular enlargement.

Immediate and early results at 3 months show favorable results of cardiomyopathy patients implanted with the GeoForm ring.¹

- Decreased left ventricular (LV) volumes
- Reduced mitral regurgitation (MR)
- Increased ejection fraction (EF)
- Reduced sphericity
- Significantly lowered tenting height



Before: Patient presented with significant MR due to ventricular dysfunction



After: MR was reduced significantly

Diseased left ventricle



The ventricle enlarges moving the subvalvular apparatus down and out

“Reducing the septolateral or anteroposterior diameter with the GeoForm ring restores leaflet coaptation without compromising the orifice area.”

— Ottavio R. Alfieri, MD, PhD
Milan, Italy
Co-designer of GeoForm Ring

“Early results demonstrate the GeoForm ring reduces MR and reforms the LV geometry.”

— Steven F. Bolling, MD
Ann Arbor, MI
Co-designer of GeoForm Ring

Edwards GeoForm Annuloplasty Ring

Durable construction and ease of use

- Titanium alloy base covered by silicone rubber and polyester velour cloth
- Rigid remodeling ring
- Circumferential ring design better supports anterior and posterior dilatation than partial rings²⁻⁴
- Construction maintains support in high-pressure environments

Model Description	Model Number
GeoForm annuloplasty ring	4200
Handle	1150
Mitral sizers	1174
Handle for sizers (reusable)	1111
Handle for sizers (single use)	1126

*A 41% AP decrease when compared with same size Carpentier-Edwards Physio annuloplasty ring.

References:

1. Bolling S, et al. Reforming LV geometry in CHF with MR: a unique valvular solution for a ventricular problem. Presented at AATS, 2005.
2. Hueb AC, et al. Ventricular remodeling and mitral valve modifications in dilated cardiomyopathy: New insights from anatomic study. J Thorac Cardiovasc Surg. 2002;124:1216-24.
3. Tibayan FA, et al. Annular remodeling in chronic ischemic mitral regurgitation: Ring selection implications. Ann Thorac Surg. 2003;76:1549-55.
4. Gorman JH, et al. Annuloplasty ring selection for chronic ischemic mitral regurgitation: Lessons from the ovine model. Ann Thorac Surg. 2003;76:1556-63.

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Dr. Alfieri and Dr. Bolling receive royalty payments from Edwards Lifesciences for the GeoForm ring. In addition, Dr. Bolling is a paid consultant to Edwards Lifesciences.

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