

## INITIAL EXPERIENCE WITH THE ATRIASEPT:

### A New Device For Transcatheter Closure Of Secundum Atrial Septal Defect.

*Our thanks to:*

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# ATRIASEPT™

*Advancing Septal Closure Technology*

A 40 year old patient with exertional dyspnea (NYHA class II) was referred to Hopital Bichat for the closure of a secundum Type II ASD. A recent Trans-Thoracic echocardiography showed a dilated right-sided heart and an ASD of 16 mm suitable for percutaneous closure.

The pressures were the following:

RA = 9

RV = 26/11

PA = 26/12 18

LA = 10

Persistent left superior vena cava and abnormal pulmonary venous return were excluded.

General Anesthesia was performed along with TEE. The TEE control showed a 16 mm ASD with significant posterior and aortic rims. A sizing balloon was used to measure the ASD. Balloon sizing showed the defect at approximately 23 mm.

An Atrisept 50-24 device, (Cardia, Eagan, MN, USA) was positioned without any problem.

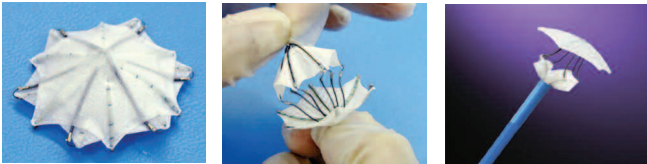
TEE control showed an excellent position of the device with no residual shunt.

#### BACKGROUND

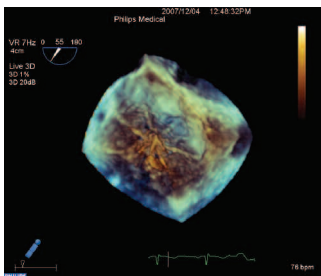
The ATRIASEPT (Cardia, Eagan, MN) is a low profile, self-centering, fully retrievable, and repositionable double-umbrella device with a woven Nitinol frame and polyvinyl alcohol sails. It can be used for transcatheter closure of moderate-size secundum atrial septal defects (ASD) up to approximately 24 mm in stretched diameter. The diameter of the inner self-centering ring is designed to closely match the stretched diameter of the ASD, and the total arm length is 14 mm longer than the centering ring diameter. Device endothelialization is excellent.

#### Results

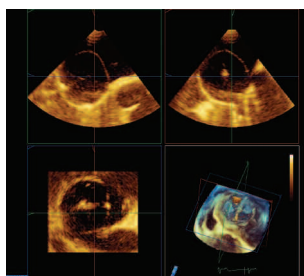
#### ILLUSTRATIVE



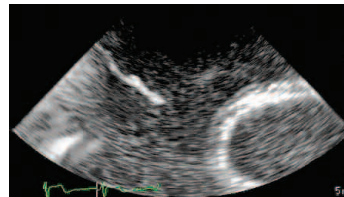
ATRIASEPT™ left atrial disk (left), centering mechanism (center) and appearance during delivery (right)



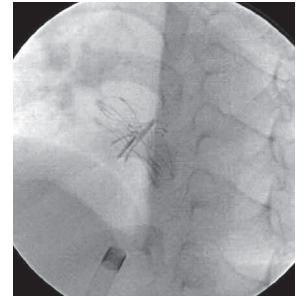
Looking straight at left disc with 3-D echo



Sizing of ASD with 3-D echo



16 mm ASD unstretched



ATRIASEPT™ released from delivery cable, lateral fluoroscopy

CARDIA®