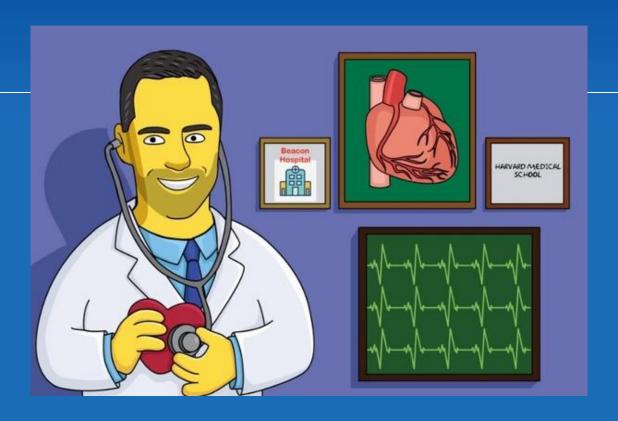
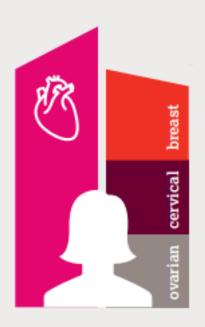
CATH LAB

What's New and How it Will Benefit Your Patients

Dave Burke







Heart disease

kills more women

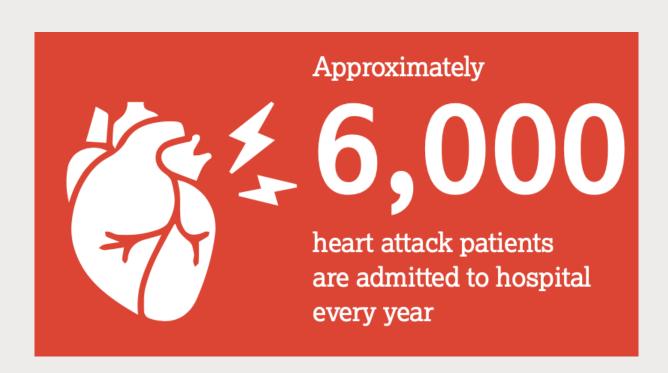
than breast, cervical and ovarian cancer combined



Approximately

2 million

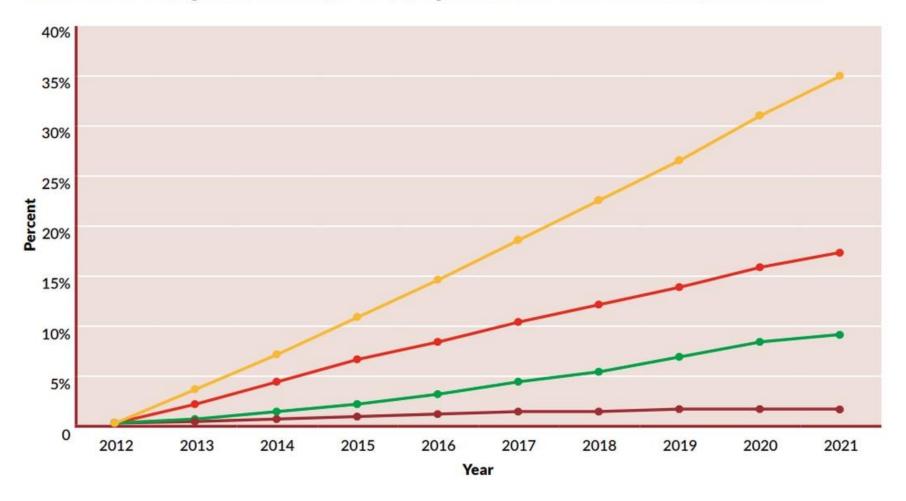
people in Ireland are at risk of or living with the long-term impacts of heart disease or stroke



disease and stroke

An Ageing Population

Cumulative Percentage Increase in Population, All Ages and 65+ for Ireland and EU-27, 2012 to 2021







- EU 27 Total Population
- EU 27 aged 65 years and over
- Ireland Total Population
- Ireland aged 65 years and over



Beacon Cardiology

- 25 Cardiology Consultants (Dublin and Limerick)
- Rapid Access Cardiology Clinic
- 2 State of the Art Cath Labs
- Cardiac Testing & Diagnostics ECG, Echo, Stress Tests, Holter
- Radiology CT coronary angiogram, Cardiac MRI
- Paediatric Cardiology Service
- Cardiothoracic Surgery
- Intensive Care 8 ICU 6 HDU
- New Cardiology Clinic Limerick Consultation & Testing
- Multidisciplinary Consultant Cardiologists,
 Electrophysiologists, Cardiac Physiologists, Radiographers,
 Cardiac Clinical Nurse Specialists and Cardiac
 Physiotherapists.







Advances in the Cath Lab

Advances have helped make procedures safer and more straightforward.

Technology allows us to make the right decisions in terms of whether patients should get stents, and then when needed, give us the enhanced ability to be able to get great results.

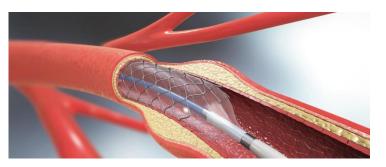
Advanced imaging, functional assessment, improved percutaneous techniques and cutting edge equipment allow us to deliver improved quality of life.



Angioplasty & Stenting

- First coronary angiogram 1958
- Angioplasty has been around for 45 years.
- Massive progress in stent design and production
- Drug eluting
- Less stent thrombosis and in-stent restenosis
- More deliverable
- Bifurcation and Left main indications
- Reduced patients requiring cardiac surgery







Advances & Developments in the Cath Lab

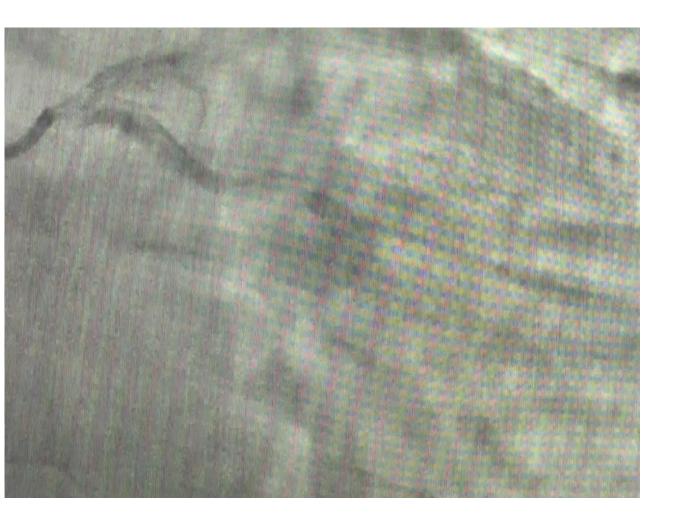
- Non-invasive imaging advancements
- Radial arterial access
- Imaging IVUS, OCT
- Functional assessment
- Drug eluting balloons
- Shockwave, Diamondback
- TAVI, structural valve in valve
- Alcohol septal ablation
- CTO techniques

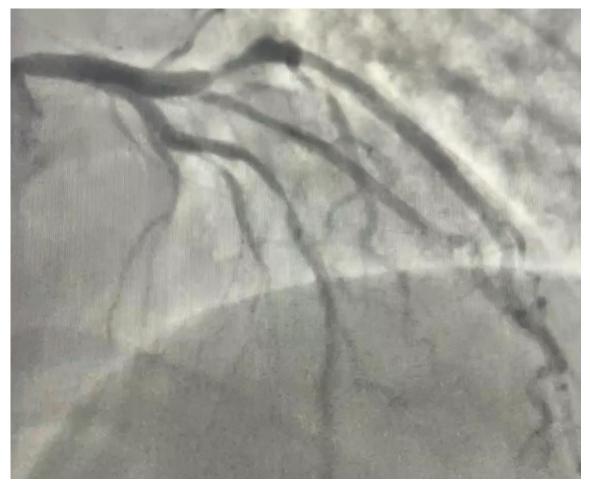


Radial Arterial Access



Coronary Angiogram

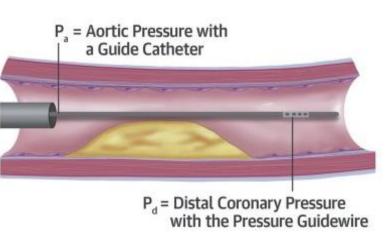


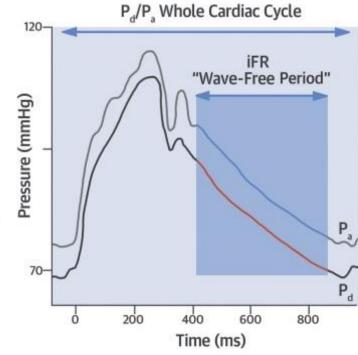


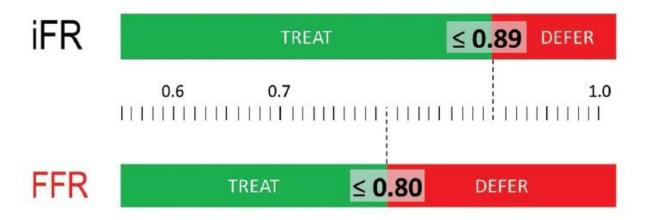


Functional Assessment

- FFR Fractional Flow Reserve
- iFR Instantaneous wave free ratio



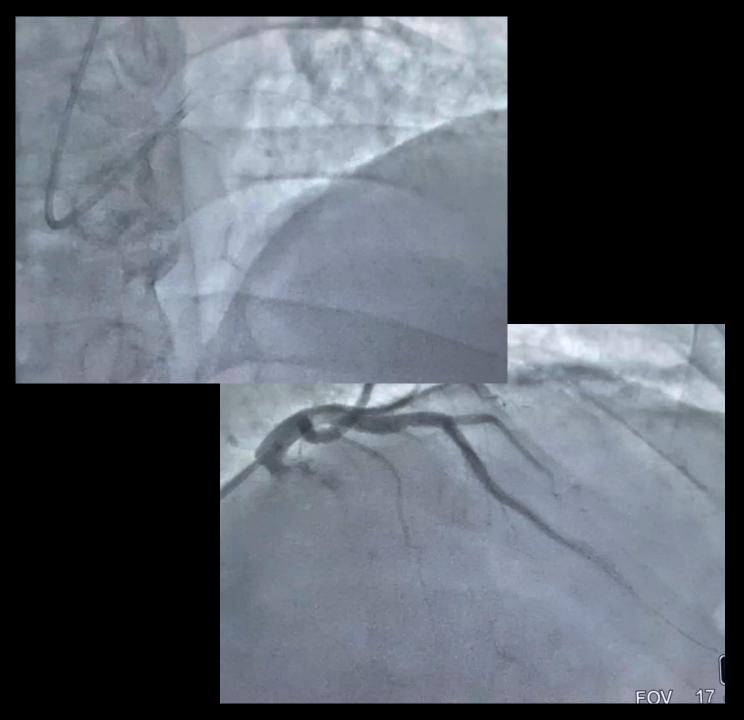




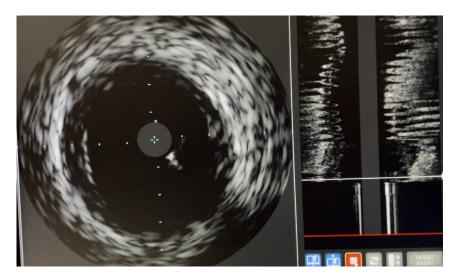


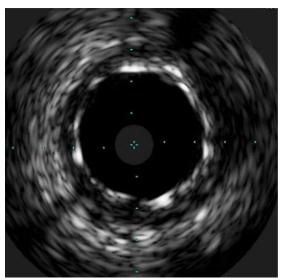


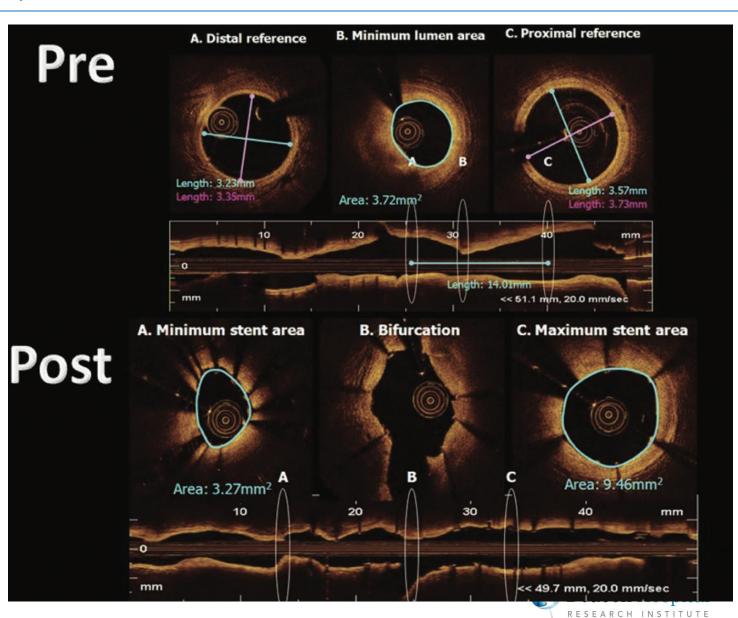




Advanced Imaging Techniques



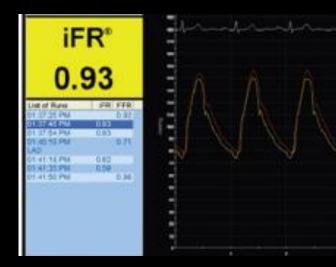


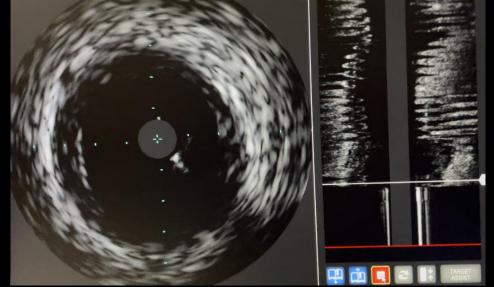


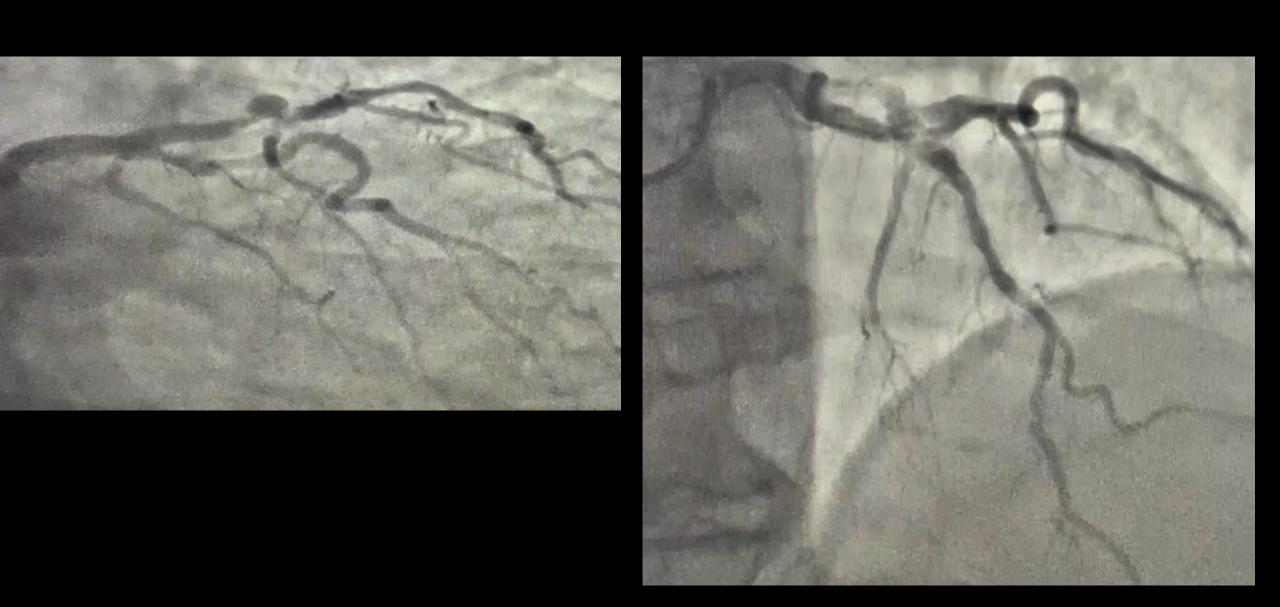
Decision Making







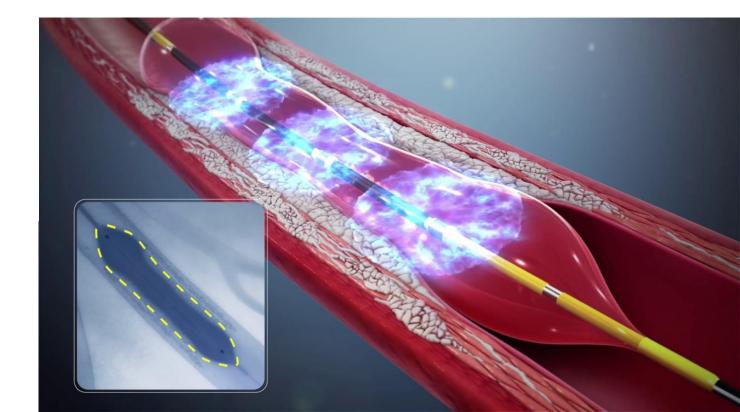


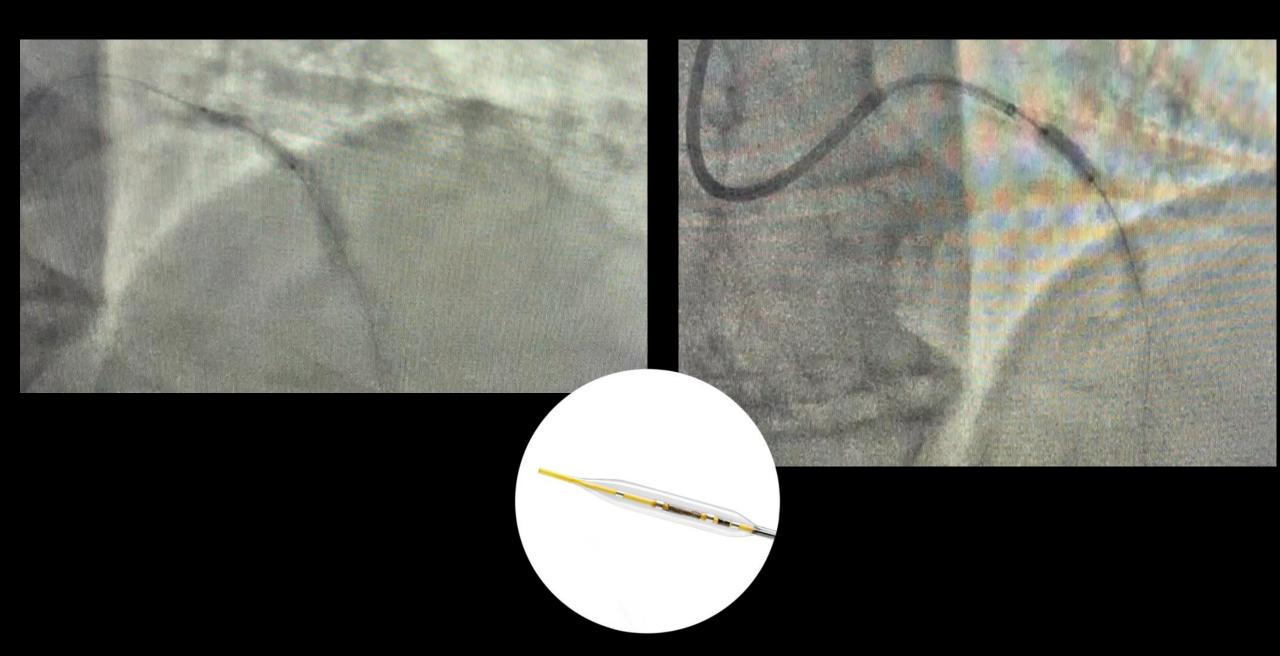


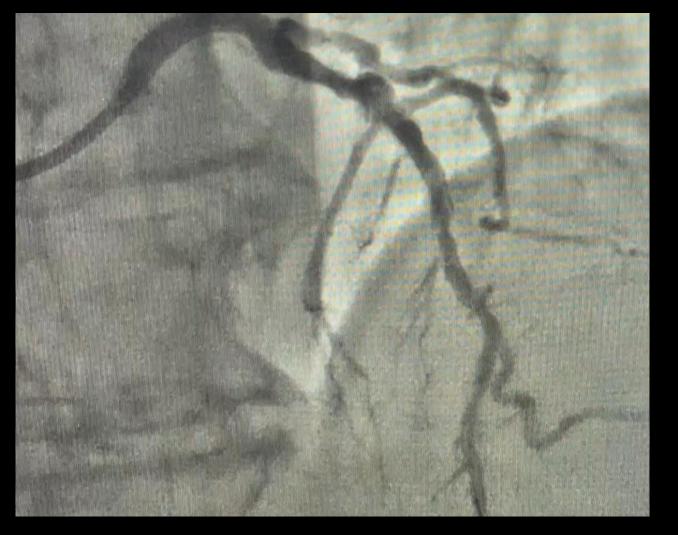
Shockwave Balloons



A balloon to deliver sonic pressure waves that can pass through soft arterial tissue to "preferentially disrupt" calcified plaque and optimize stent placement.

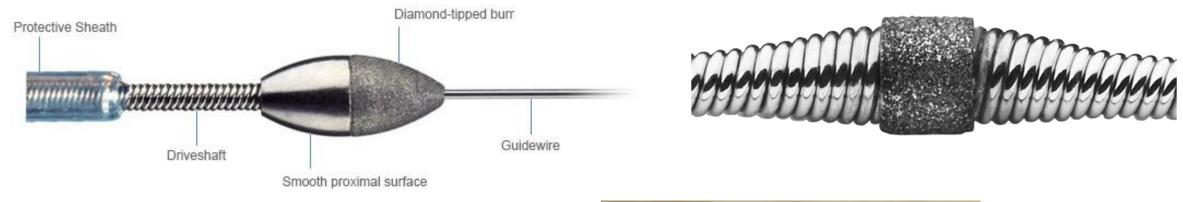




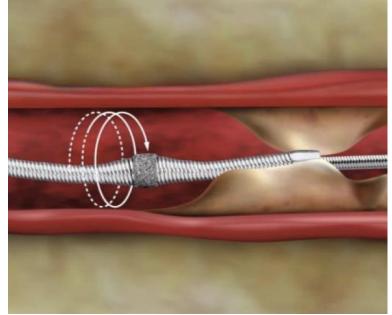




Atherectomy

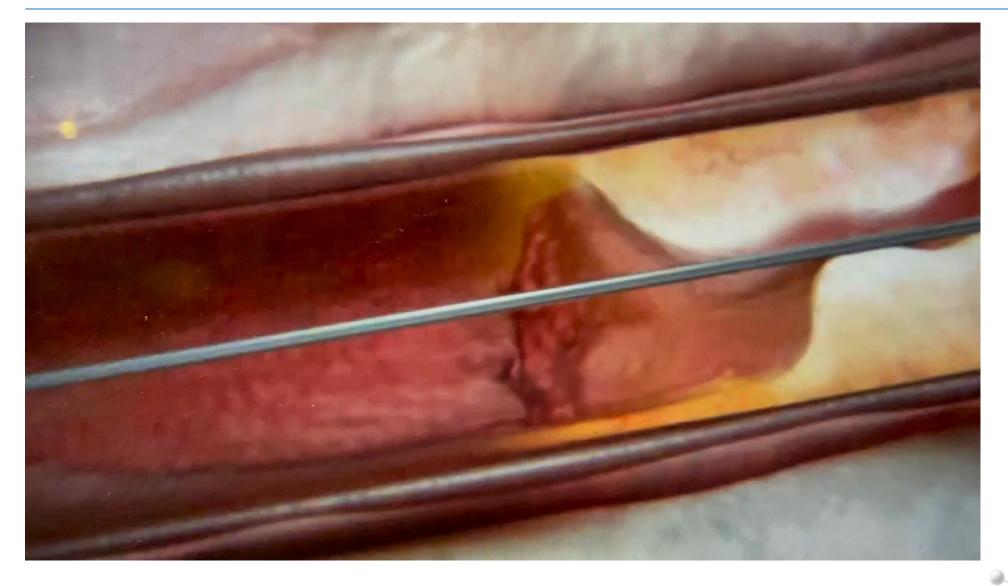








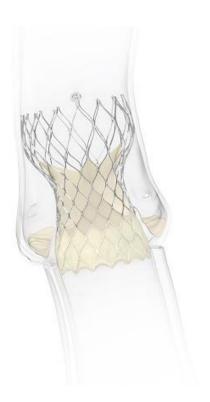
Atherectomy



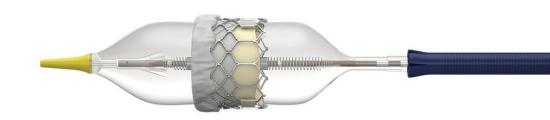


TAVI / Structural Heart Advances

- Valve in valve
- Smaller delivery catheters
- Alternate access
- Other valve options

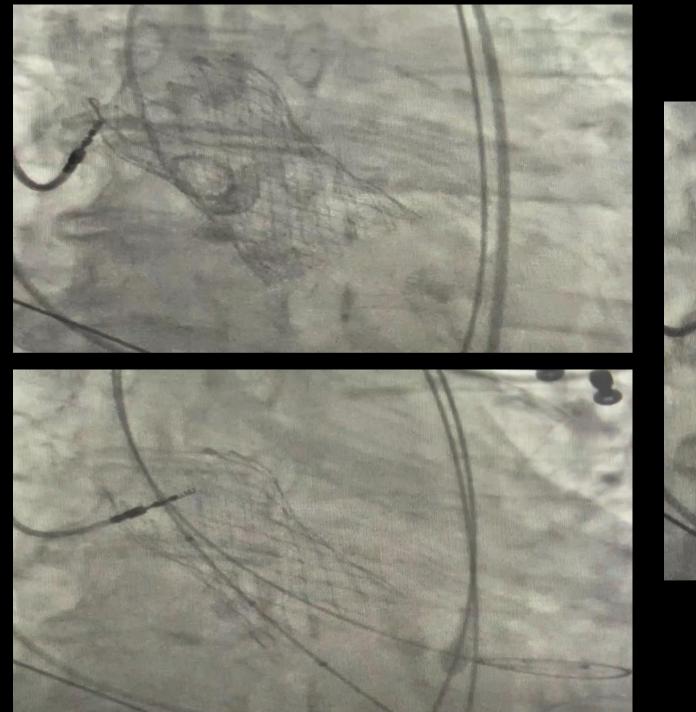




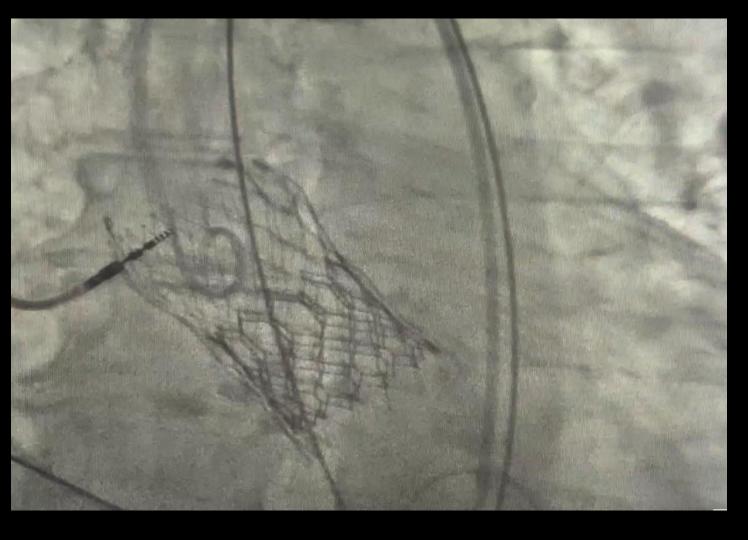




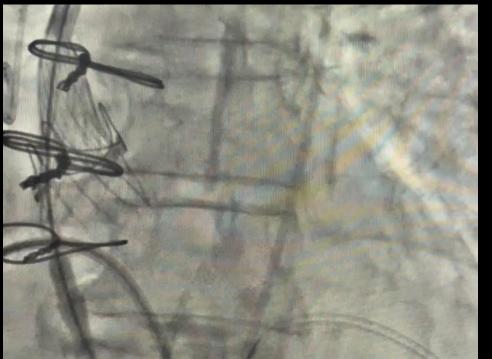








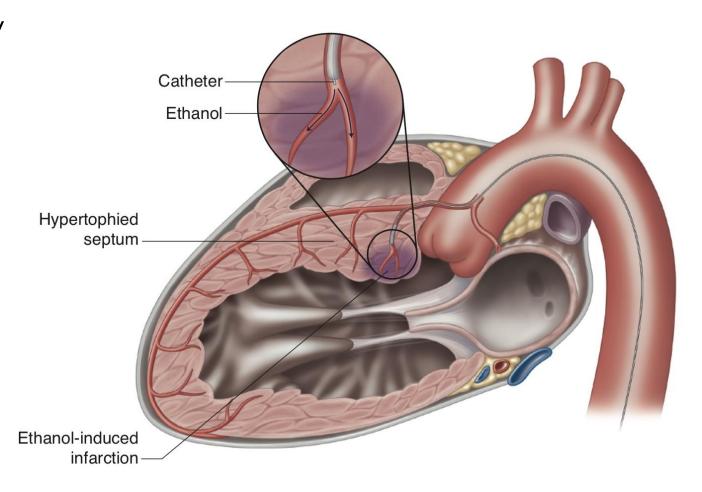




Alcohol Septal Ablation

- Hypertrophic cardiomyopathy
- 'Outflow tract' gradient
- Exertional symptoms

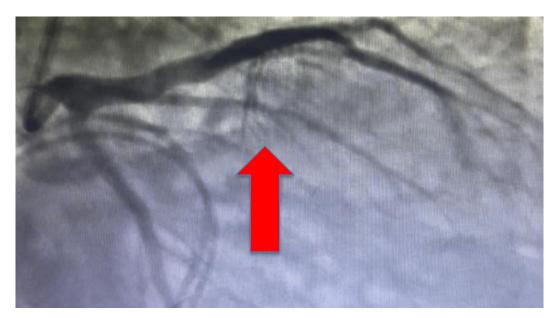


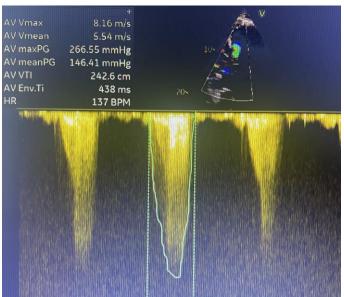




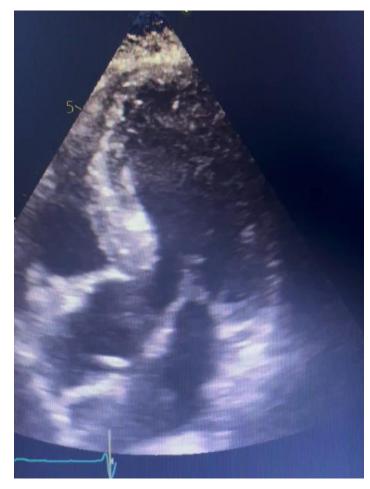
Alcohol Septal Ablation







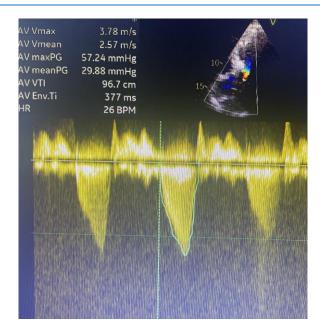




Final Result









Future Expectations

OVERALL:

- Renal denervation
- Bioresorbable stents
- Broader valve therapies
- Continued evolution in noninvasive imaging techniques
- Continued push in preventative approaches

AT BEACON:

- 3rd State of the Art Cath Lab
- BHRI clinical trials allowing us to provide cutting edge treatments and new developments



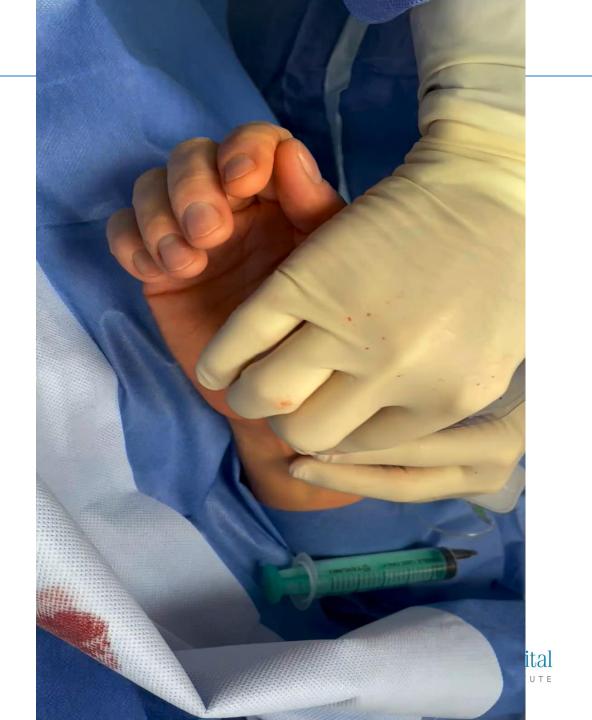






Conclusion

TR band vascular closure



THANK YOU

