Salud eNEWSLETTER Cardiovascular

PUBLICATION OF THE HISPANIC VALVE CENTER
AT BAYAMON MC - HEART AND LUNG INSTITUTE

HISPANIC VALVE CENTER

Bayamón

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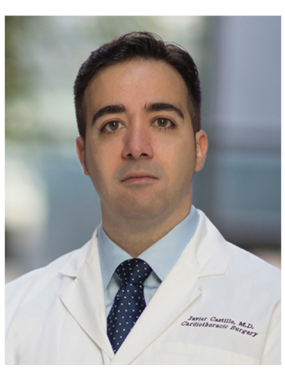

Dear All,

Welcome to *Salud Cardiovascular.* As the number of options to treat heart valve disease exponentially grow, so does the challenge of selecting the most suitable. At the Hispanic Valve Center, we offer a broad spectrum of treatments, from complex valve reconstruction to transcatheter therapies. It is our pleasure to help you every step of the way.

Javier Castillo, MD
Director, Hispanic Valve Center

Estimado todos,

Bienvenidos a *Salud Cardiovascular*. Las opciones para tratar las enfermedades cardiovasculares son cada vez más. En el Hispanic Valve Center, te ofrecemos gran variedad de tratamientos, desde cirugía valvular reconstructiva hasta terapias transcatéter. Será un verdadero placer ayudarte durante todo el proceso.

Javier Castillo, MD
Director, Hispanic Valve Center

New Beginnings at Bayamon Medical Center

BAYAMON | PR

Doctor Javier Castillo will serve Bayamón Medical Center as Chairman of Cardiovascular Surgery and Surgical Director of Structural Heart Disease. He received his medical degree from URV and pursued postgraduate education at Mayo Clinic. He then completed his residency at The Mount Sinai Hospital. In addition, Dr. Castillo completed research fellowships in outcome analysis and mitral valve disease at the same institution. He is an author on over 100 peer-reviewed publications and has published more than 30 book chapters on the surgical management of mitral valve disease for the top textbooks in the cardiovascular field.

Our Patient Guide Now Available

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We are all working together to provide the highest-quality care by achieving complete patient understanding. In this context, the Hispanic Valve Center has developed a comprehensive guide for those patients who are in need of cardiovascular therapies. This thorough roadmap answers every single question that patients may have before, during, or after hospital admission. In addition, the "guidelines" have been simplified and transformed into a more intuitive resource to help patients understand every single class and recommendation. You can download our patient guide at *www.hispanicvalvecenter.org/portaldelpaciente*

CHIP, CTO, and TAVR at Bayamón Medical Center

BAYAMON | PR

The recruitment of Dr. Javier Castillo (CTS) has completed the Heart Team at Bayamón Medical Center. The implementation and consistency of Heart Team decision-making in complex coronary revascularization and structural heart disease will be a routine at the Heart and Lung Institute. Within this context, Bayamón Medical Center will offer state-of-the-art services including valve reconstruction, transcatheter aortic valve replacement (TAVR), high risk percutaneous coronary intervention (CHIP), and options for chronic total occlusions (CTO).

Valve Disease Awareness Campaign

SAN JUAN | PR

Bayamón Medical Center will conceptualize and launch a heart valve disease awareness campaign. The initiative, mainly focus on education, seeks to encourage patients to learn more about signs and symptoms. In addition, patients will be informed about screening, importance of regular auscultation, significance of a heart murmur, timely echocardiography, and treatment options. Community advocacy has a tremendous impact on clinical burden from advanced heart valve disease. The campaign will include round tables and discussions with peer physicians.

Ranked by Expertscape in Several Fields

NEW YORK | NEW YORK

Expertscape ranks physicians according to a) PubMed database search to find articles published in the past ten years b) Score assignment to each article based on publication year, type, and impact factor c) Authorship d) Adjustment of institutional influence e) Tallying of scores. The Hispanic Valve Center is represented in mitral valve disease, mitral valve prolapse, and carcinoid heart disease.

Making an Impact on Patient Education

Structural heart disease is our specialty. We strive to proceed with a thorough history for evaluation of causes and symptoms, accurate assessment of the severity of the valvular abnormality by examination, pertinent diagnostic testing, and complete quantification of the severity of valve dysfunction and benefit of each potential therapeutic intervention. We have adapted, simplified, and fully translated the guidelines to improve and maximize patient understanding about indications and timing.

Primary Severe Mitral Regurgitation | Insuficiencia Mitral Severa Primaria

SYMPTOMS SINTOMAS	LVEF FEVI	LVESD DTSVI	OTHER CONDITIONS OTRAS CONDICIONES	RECOMMENDATION RECOMENDACION	CLASS CLASE
✓	>30%	-	-	Mitral valve surgery (mitral valve repair >>> mitral valve replacement) Cirugia valvular mitral (reparación valvular mitral >>> reemplazo valvular mitral)	I
✓	≤30%	-	-	Mitral valve surgery (mitral valve repair >>> mitral valve replacement) Cirugia valvular mitral (reparación valvular mitral >>> reemplazo valvular mitral)	IIb
✓	≤30%	-	Prohibitive risk Riesgo prohibitivo	Transcatheter mitral valve repair Reparación valvular mitral transcatéter	IIb
-	30%-60%	-	-	Mitral valve surgery (mitral valve repair >>> mitral valve replacement) Cirugia valvular mitral (reparación valvular mitral >>> reemplazo valvular mitral)	I
-	-	>40mm	-	Mitral valve surgery (mitral valve repair >>> mitral valve replacement) Cirugia valvular mitral (reparación valvular mitral >>> reemplazo valvular mitral)	I
-	>60%	<40mm	-	Mitral valve surgery if likelihood of repair is >95% (heart valve centers of excellence) Cirugia valvular mitral si la probabilidad de reparación es >95% (centros de excelencia)	IIa
-	>60%	<40mm	Progressive LVD Progresión de DVI	Mitral valve surgery (mitral valve repair >>> mitral valve replacement) Cirugia valvular mitral (reparación valvular mitral >>> reemplazo valvular mitral)	IIa
-	>60%	<40mm	New onset of AF Inicio de FA	Mitral valve surgery if likelihood of mitral valve repair >>> mitral valve replacement Cirugia valvular mitral si la probablididad de reparación mitral >>> reemplazo mitral	IIa
-	>60%	<40mm	SPAP >50mmHg PSAP >50mmHg	Mitral valve surgery if likelihood of mitral valve repair >>> mitral valve replacement Cirugia valvular mitral si la probablididad de reparación mitral >>> reemplazo mitral	IIa

I Strong: Benefit >>> Risk IIa Moderate: Benefit >> Risk IIb Weak: Benefit ≥ Risk

AF: atrial fibrillation, DTSVI: diámetro telesistólico del ventriculo izquierdo, DVI: disfunción del ventrículo izquierdo, FA: fibrilación auricular, FEVI: fracción de eyección del ventrículo izquierdo, LVD: left ventricular dysfunction, LVEF: left ventricular ejection fraction, LVESD: left ventricular end-systolic dimension, PSAP: presión sistólica de la arteria pulmonar, SPAP: systolic pulmonary artery pressure

Nishimura RA et al. 2017 AHA/ACC Guideline for the Management of Patients With Valvular Heart Disease: A Report of the American College of Cardiology/American Heart Association Task Force on Clinical Practice Guidelines. J Am Coll Cardiol. 2017;70(2):252-289

Severe Aortic Stenosis | Estenosis Aórtica Severa

DEGREE GRADO	SYMPTOMS SINTOMAS	LVEF FEVI	OTHER CONDITIONS OTRAS CONDICIONES	RECOMMENDATION RECOMENDACION	CLASS CLASE
Severe Severa	✓	-	-	Aortic valve replacement Reemplazo valvular aórtico	I
Severe Severa	-	<50%	-	Aortic valve replacement Reemplazo valvular aórtico	I
Severe Severa	-	-	Underoging other Sx Recibe otra cirugía	Aortic valve replacement Reemplazo valvular aórtico	I
Severe Severa	-	-	Abnormal ETT PE anormal	Aortic valve replacement Reemplazo valvular aórtico	IIa
Severe Severa	-	-	V_{max} ≥5 m/s ΔP_{mean} ≥60 mmHg	Aortic valve replacement in the setting of low surgical risk Reemplazo valvular aórtico si el riesgo quirúrgico es bajo	IIa

I Strong: Benefit >>> Risk IIa Moderate: Benefit >> Risk

EE: ecocardiograma de estrés, ETT: exercise treadmill test, FEVI: fracción de eyección del ventrículo izquierdo, LVEF: left ventricular ejection fraction, P: gradient - gradiente, PE: prueba de esfuerzo, SE: stress echocardiography, Sx: surgery, V: velocity - velocidad

Nishimura RA et al. 2017 AHA/ACC Guideline for the Management of Patients With Valvular Heart Disease: A Report of the American College of Cardiology/American Heart Association Task Force on Clinical Practice Guidelines. J Am Coll Cardiol. 2017;70(2):252-289

https://www.hispanicvalvecenter.org/portaldelpaciente

Time to See Your Cardiologist

Need an echocardiogram if you have:

. A heart murmur
. Shortness of breath
. Weakness or dizziness
. Chest pain, tightness, or discomfort
. Fainting or feeling faint
. Fatigue
. Rapid or irregular heartbeat
. Lightheadedness
. Decrease in exercise capacity
. Swollen abdomen or ankles and feet

Necesita un ecocardiograma si tiene:

. Un soplo cardíaco
. Falta de aire o dificultad para respirar
. Debilidad o siente vértigo
. Dolor o presión en el pecho
. Desmayos o siente que se va desmayar
. Fatiga
. Arritimias o taquicardias
. Mareos frecuentes
. Limitaciones en la actividad física
. Hinchazón de abdomen, tobillos o pies

Multiple Ways to Refer a Patient to the Hispanic Valve Center at Bayamon Medical Center

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Online: www.hispanicvalvecenter.org/contacto

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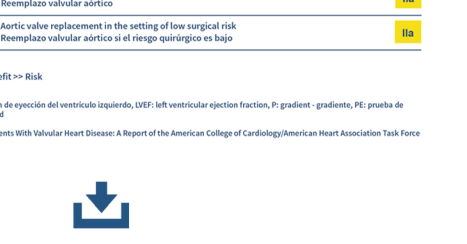

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