

**INFOMED** 

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**Alfonso Macias Torres** 

Account Development Manager LATAM North & Caribbean Junio 2019

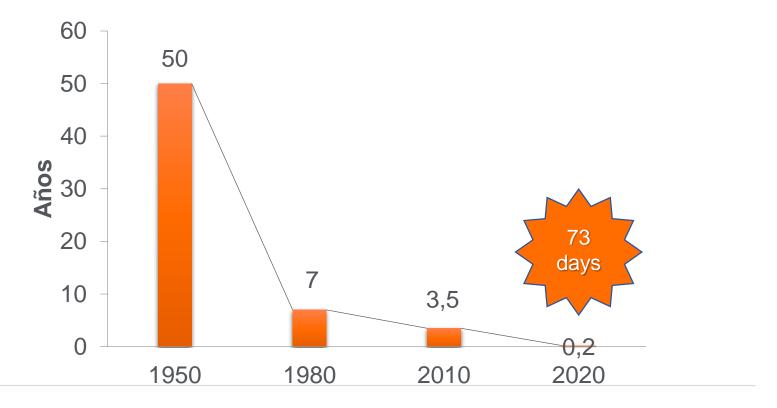


# Agenda

- Cantidad de información
- Nuestros Objetivos
- Aportaciones de CK
- Tipo y Calidad de información
- ClinicalKey



### Cantidad de información



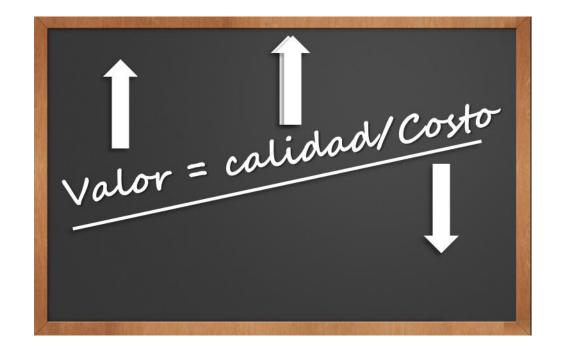


Densen P. Challenges and opportunities facing medical education. Trans Am Clin Climatol Assoc. 2011;122:48–58

### Nuestro Objetivo es el mismo









## ¿Que bloquea el camino a una exitosa educación/atención a la Salud?





# Reducción de la Variabilidad



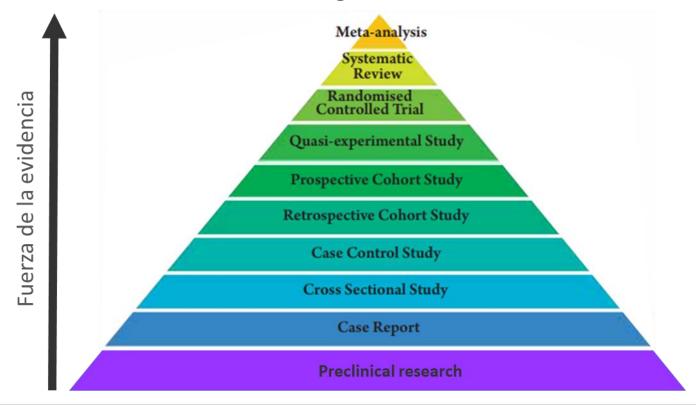
# Educación Médica Continua



# Educación del Paciente



### Pirámide de la Evidencia en investigación





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# Pensemos en algunos impactos positivos cuando permitimos acceso a respuestas confiables...

- Calidad en educación médica
- Educación médica uniforme
- Tratamientos mas efectivos
- Reducción de exámenes innecesarios
- Reducción de riesgos
- Mas prácticas responsables
- Aumento en la productividad médica
- Y entre otras cosas, una mejora en calidad de atención en su institución



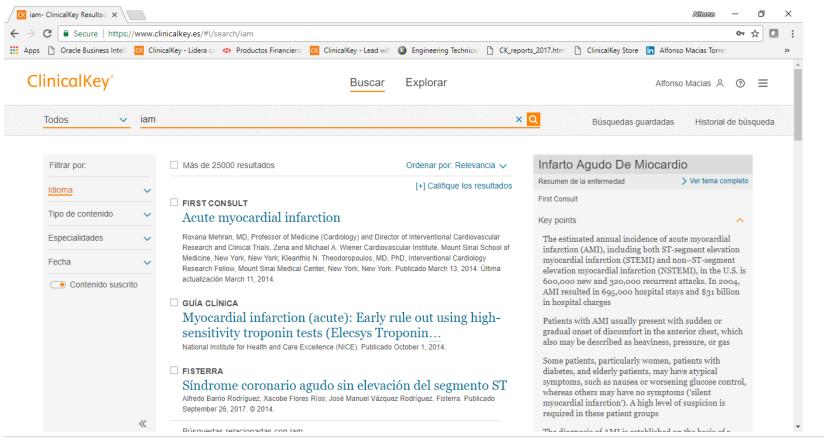


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#### Acute myocardial infarction

Roxana Mehran, MD, Professor of Medicine (Cardiology) and Director of Interventional Cardiovascular Research and Clinical Trials, Zena and Michael A. Wiener Cardiovascular Institute, Mount Sinai School of Medicine, New York, New York: Kleanthis N. Theodoropoulos, MD. PhD, Interventional Cardiology Research Fellow, Mount Sinai Medical Center, New York, New York, Publicado March 13, 2014, Última actualización March 11, 2014.

#### ☐ GUÍA CLÍNICA

Myocardial infarction (acute): Early rule out using highsensitivity troponin tests (Elecsys Troponin...

National Institute for Health and Care Excellence (NICE). Publicado October 1, 2014.

#### ☐ FISTERRA

#### Síndrome coronario agudo sin elevación del segmento ST

Alfredo Barrio Rodríguez: Xacobe Flores Ríos; José Manuel Vázguez Rodríguez, Fisterra, Publicado September 26, 2017. © 2014.

Rúsquedas relacionadas con jam

#### Infarto Agudo De Miocardio

Resumen de la enfermedad

> Ver tema completo

First Consult

Key points

The estimated annual incidence of acute myocardial infarction (AMI), including both ST-segment elevation myocardial infarction (STEMI) and non-ST-segment elevation myocardial infarction (NSTEMI), in the U.S. is 600,000 new and 320,000 recurrent attacks. In 2004, AMI resulted in 695,000 hospital stays and \$31 billion in hospital charges

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The diagnosis of AMI is established on the basis of a



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Más de 25000 resultados Síndrome coronario agudo sin elevación del segmento ST Alfredo Barrio Rodríguez; Xacobe Flores Ríos; José Manuel Vázquez Rodríguez. Fisterra. Publicado September 26, 2017, © 2014. Búsquedas relacionadas con iam IAM inferior IAM auricular IAM de pared inferior IAM anteroseptal IAM de pared anterolateral IAM posterior ☐ ARTÍCULO 2017 AHA/ACC/HRS Guideline for Management of Patients With Ventricular Arrhythmias and the... 🎦 Artículo en prensa: Manuscrito aceptado Al-Khatib, Sana M., MD, MHS, FACC, FAHA, FHRS; Stevenson, William G., MD, FACC, FAHA, FHRS... Mostrar todo. @ 2017.

Oxygen Therapy in Suspected Acute Myocardial

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The diagnosis of AMI is established on the basis of a high clinical suspicion based on the history and physical examination findings in addition to changes in cardiac biomarkers (creatinine kinase-MB [CK-MB].... Más



Practice performance parameters

Infarction.

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The New England journal of medicine.



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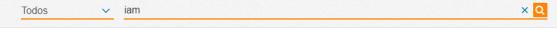
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58 resultados Ordenar por: Relevancia 🗸 [+] Califique los resultados

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50

58

58

Risk Stratification in Acute Myocardial Infarction

Myocardial Infarction: A Companion to Braunwald's Heart Disease.

Newby, L. Kristin; Vora, Amit N.; Granger, Christopher B., Publicado January 1, 2017. Páginas 114-127. ©

□ CAPÍTULO

Echocardiography in the Coronary Care Unit: Management of Acute Myocardial Infarction, Detection of

Practice of Clinical Echocardiography.

Gerber, Ivor L., MD, MBChB; Foster, Elyse, MD. Publicado January 1, 2017. Páginas 200-217. © 2017.

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Clinical Practice/Controversy: Clinical Approach to Suspected Acute Myocardial Infarction

https://www.clinicalkey.es/#!/ nnanion to Braunwald's Heart Disease Infarto Agudo De Miocardio

Búsquedas quardadas

Resumen de la enfermedad

> Ver tema completo

First Consult

Key points

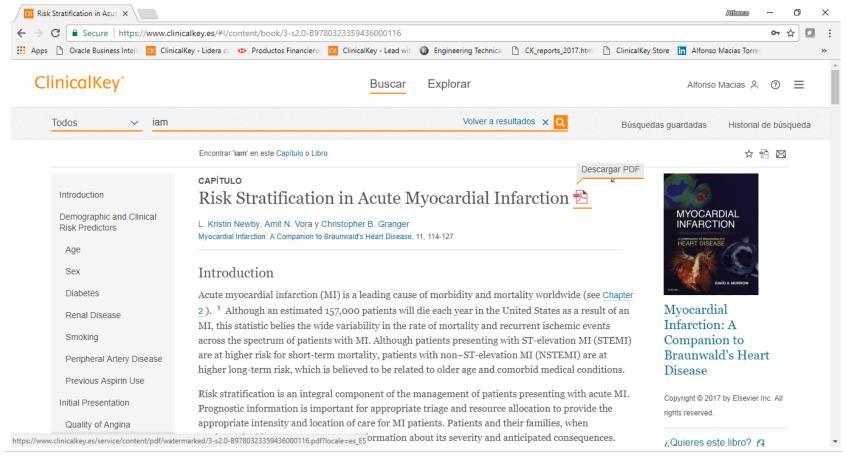
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The diagnosis of AMI is established on the basis of a

















# Risk Stratification in Acute Myocardial Infarction



L. Kristin Newby, Amit N. Vora, and Christopher B. Granger

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#### INTRODUCTION

Acute myocardial infarction (MI) is a leading cause of morbidity and mortality worldwide (see Chapter 2).¹ Although an estimated 157,000 patients will die each year in the United States as a result of an MI, this statistic belies the wide variability in the rate of mortality and recurrent ischemic events across the spectrum of patients with MI. Although patients presenting with STelevation MI (STEMI) are at higher risk for short-term mortality, patients with non-STelevation MI (NSTEMI) are at higher long-term risk, which is believed to be related to older age and comorbid medical conditions

Individualized risk assessment for acute MI involves the integration of multiple data points that are available at first medical contact and initially is composed of baseline demographic and clinical characteristics. Upon presentation, additional information gleaned during the initial evaluation, including physical examination findings, the electrocardiogram (ECG), and biomarkers of cardiomyocyte necrosis, is integrated. These data may then be combined into a validated risk model, such as the GRACE (Global Registry of Acute Coronary Events) Risk Score or the TIMI (Thrombolysis In Myocardial Infarction) Risk Score, to provide clear prognostic guidance on short- and long-term risks of death or major adverse cardiovascular events Such risk scores may be com-









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Volver a resultados x Q

Búsquedas guardadas

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Introduction

Demographic and Clinical Risk Predictors

Age

Sex

Diabetes

Renal Disease

Smoking

Peripheral Artery Disease

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Previous Aspirin Use

Initial Presentation

Quality of Angina

#### CAPÍTULO

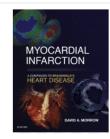
#### Risk Stratification in Acute Myocardial Infarction 🔁

L. Kristin Newby, Amit N. Vora y Christopher B. Granger
Myocardial Infarction: A Companion to Braunwald's Heart Disease. 11, 114-127

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Risk stratification is an integral component of the management of patients presenting with acute MI. Prognostic information is important for appropriate triage and resource allocation to provide the appropriate intensity and location of care for MI patients. Patients and their families, when confronted with an acute MI, expect information about its severity and anticipated consequences.

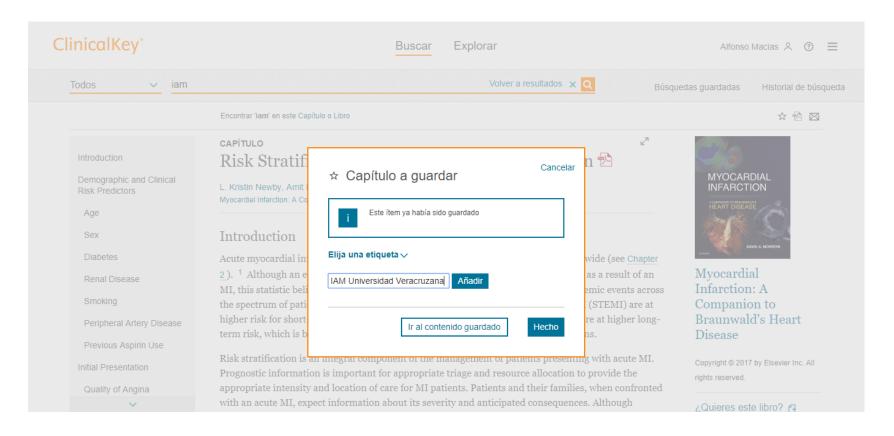


Myocardial Infarction: A Companion to Braunwald's Heart Disease

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Newby, L. Kristin; Vora, Amit N.; Granger, Christopher B., Publicado January 1, 2017. Páginas 114-127. ® 2017.

CAPÍTULO

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Gerber, Ivor L., MD, MBChB; Foster, Elyse, MD. Publicado January 1, 2017. Páginas 200-217. © 2017.

CAPÍTULO

Clinical Practice/Controversy: Clinical Approach to Suspected Acute Myocardial Infarction

Myncardial Infarction: A Companion to Braunwald's Heart Disease

#### Infarto Agudo De Miocardio

Búsquedas quardadas

Resumen de la enfermedad

> Ver tema completo

Historial de búsqueda

First Consult

Key points

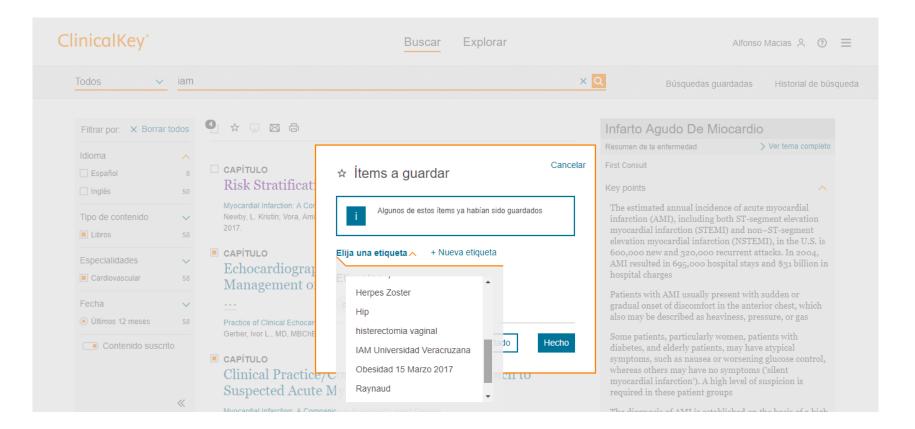
The estimated annual incidence of acute myocardial infarction (AMI), including both ST-segment elevation myocardial infarction (STEMI) and non-ST-segment elevation myocardial infarction (NSTEMI), in the U.S. is 600,000 new and 320,000 recurrent attacks. In 2004, AMI resulted in 695,000 hospital stays and \$31 billion in hospital charges

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The diagnosis of AMI is established on the basis of a

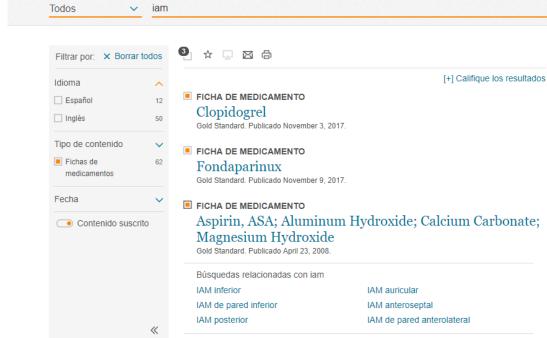






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Historial de búsqueda

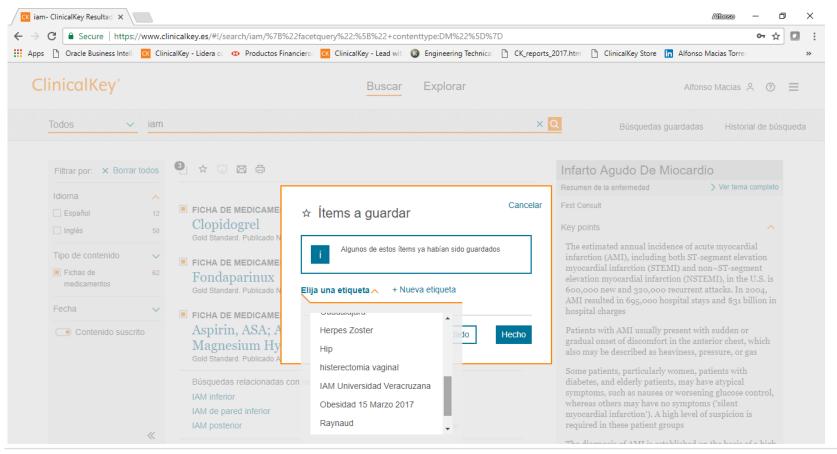


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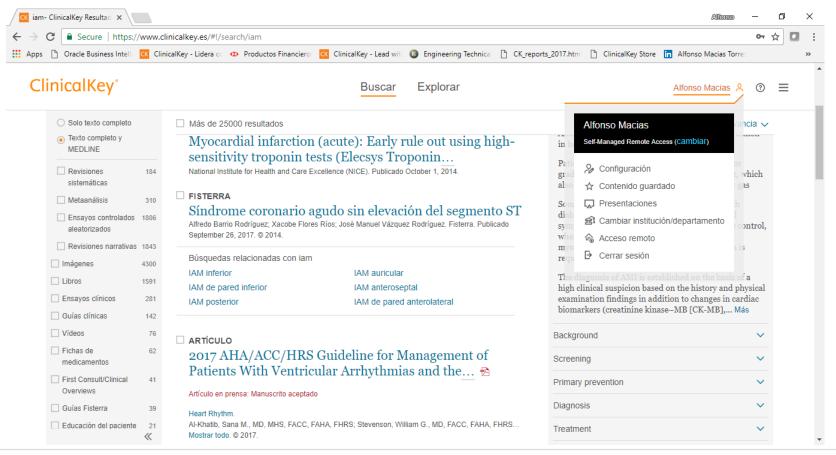
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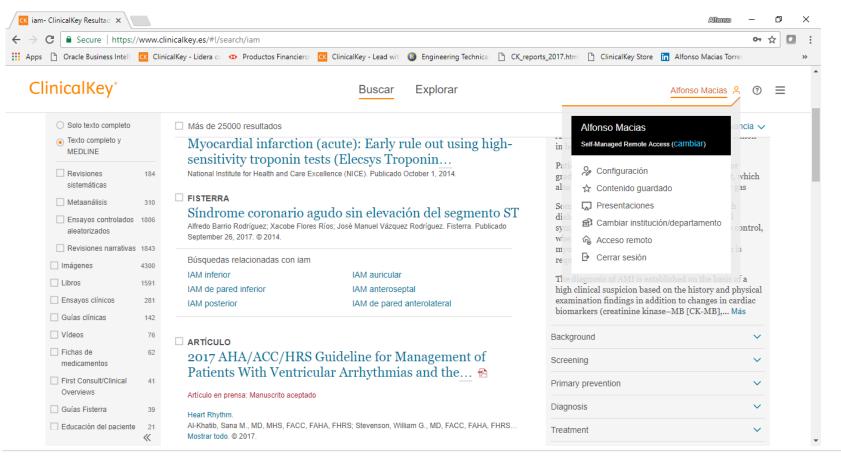
The diagnosis of AMI is established on the basis of a high clinical suspicion based on the history and physical examination findings in addition to changes in cardiac biomarkers (creatinine kinase-MB [CK-MB],... Más







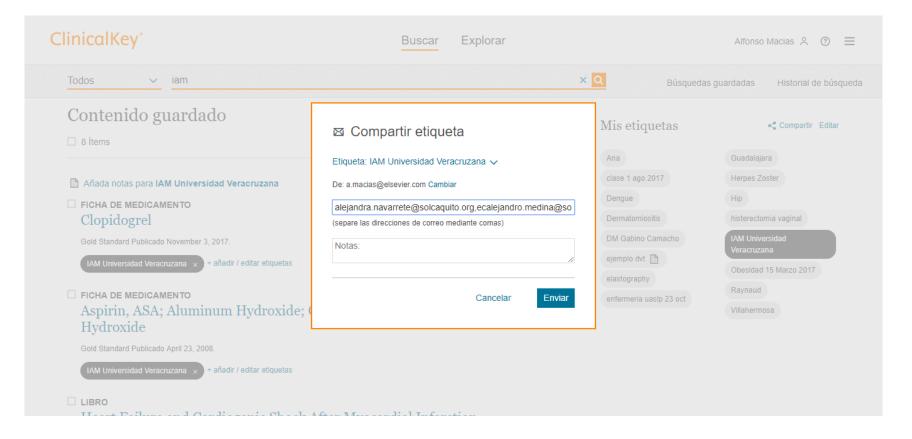














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#### Acute myocardial infarction

Roxana Mehran, MD, Professor of Medicine (Cardiology) and Director of Interventional Cardiovascular Research and Clinical Trials. Zena and Michael A. Wiener Cardiovascular Institute. Mount Sinai School of Medicine, New York, New York: Kleanthis N. Theodoropoulos, MD. PhD. Interventional Cardiology Research Fellow, Mount Sinai Medical Center, New York, New York, Publicado March 13, 2014, Última actualización March 11, 2014.

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Resumen de la enfermedad

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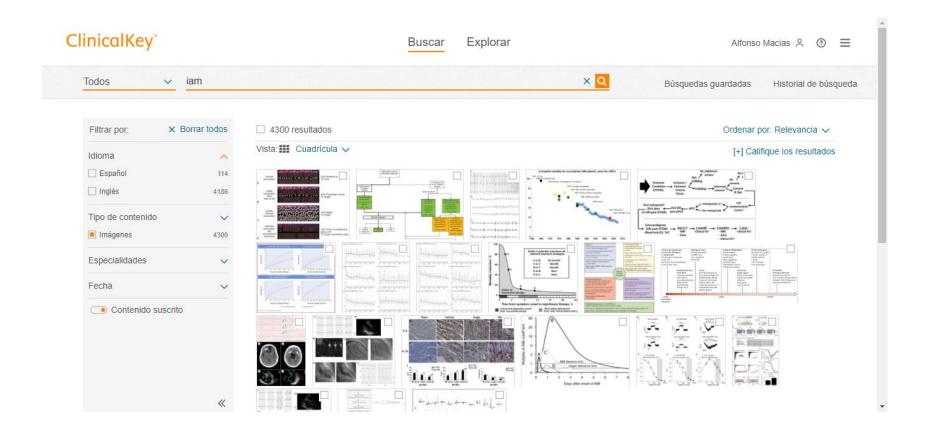
The estimated annual incidence of acute myocardial infarction (AMI), including both ST-segment elevation myocardial infarction (STEMI) and non-ST-segment elevation myocardial infarction (NSTEMI), in the U.S. is 600,000 new and 320,000 recurrent attacks. In 2004, AMI resulted in 695,000 hospital stays and \$31 billion in hospital charges

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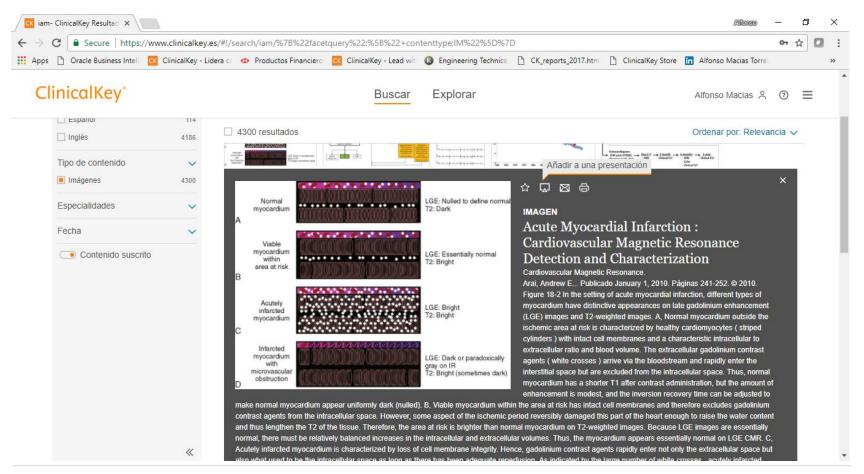
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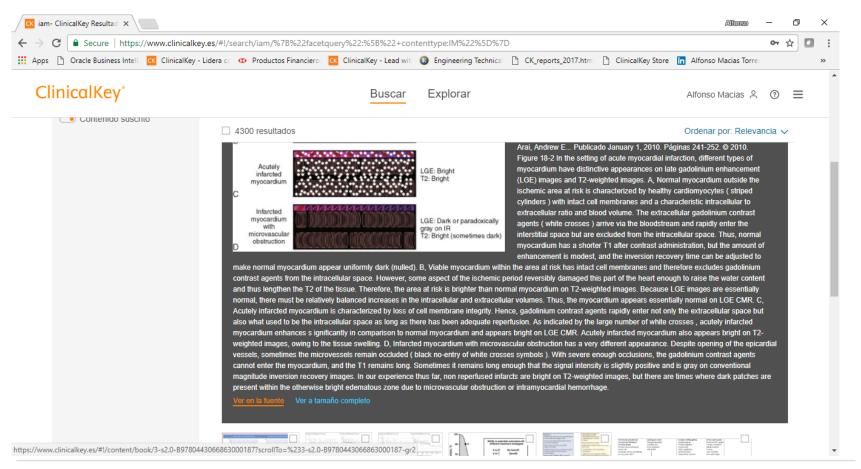








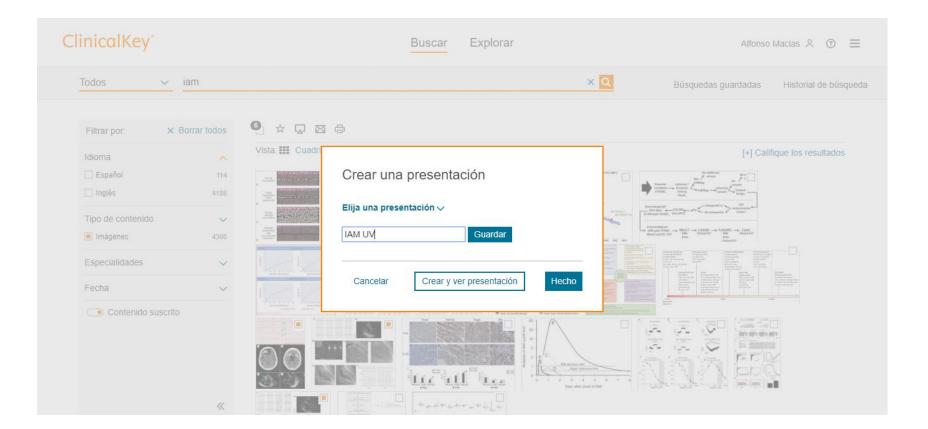




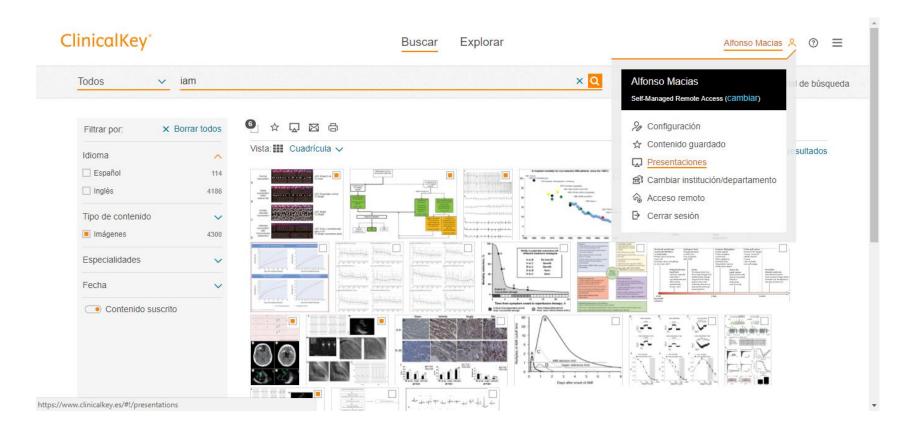


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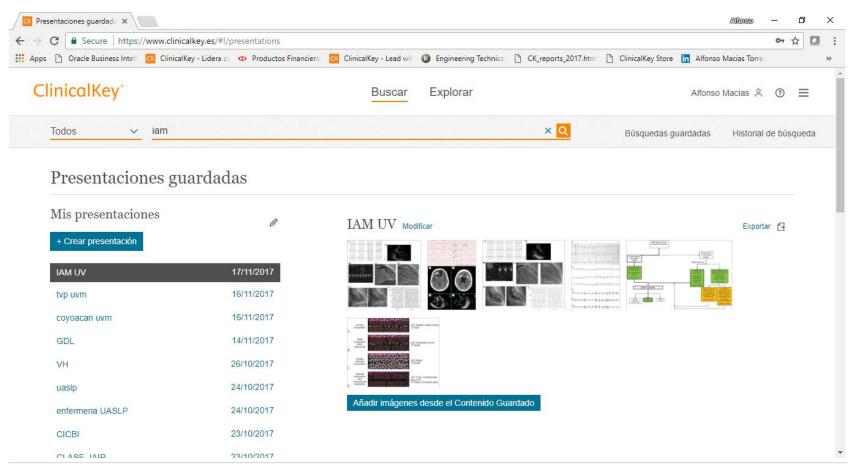


















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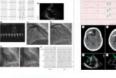
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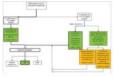
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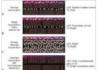
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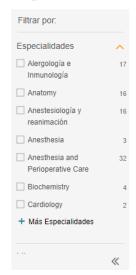
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Actualización nuevo baremo de tráfico

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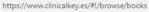
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Acute Coronary Syndromes: A Companion to Braunwald's Heart Disease

Atlas of Cardiovascular Computed Tomography: Imaging Companion to Braunwald's Heart Disease

Braunwald. Tratado de cardiología

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# Braunwald. Tratado de cardiología, Décima edición

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Tratamiento de los pacientes

con cardiopatía terminal

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y terapia génica



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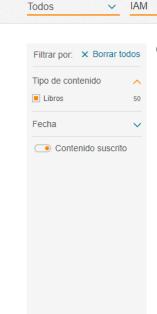
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Búsquedas guardadas

Historial de búsqueda



CAPÍTULO

## Abordaje del paciente con dolor torácico

Braunwald. Tratado de cardiología.

Sabatine, Marc S.; Cannon, Christopher P., Publicado January 1, 2016, Páginas 1057-1067, © 2016.

CAPÍTULO

## Parada cardíaca y muerte súbita cardíaca

Braunwald, Tratado de cardiología,

Myerburg, Robert J.; Castellanos, Augustin. Publicado January 1, 2016. Páginas 821-860. @ 2016.

CAPÍTULO

## Infarto de miocardio con elevación del ST: tratamiento

Braunwald. Tratado de cardiología.

Mega, Jessica L.; Morrow, David A.: Publicado January 1, 2016. Páginas 1095-1154. © 2016.

Búsquedas relacionadas con IAM

IAM inferior

IAM auricular

# Infarto Agudo De Miocardio

Resumen de la enfermedad

> Ver tema completo

First Consult

Key points

The estimated annual incidence of acute myocardial infarction (AMI), including both ST-segment elevation myocardial infarction (STEMI) and non–ST-segment elevation myocardial infarction (NSTEMI), in the U.S. is 600,000 new and 320,000 recurrent attacks. In 2004, AMI resulted in 695,000 hospital stays and \$31 billion in hospital charges

Patients with AMI usually present with sudden or gradual onset of discomfort in the anterior chest, which also may be described as heaviness, pressure, or gas

Some patients, particularly women, patients with diabetes, and elderly patients, may have atypical symptoms, such as nausea or worsening glucose control, whereas others may have no symptoms ('silent myocardial infarction'). A high level of suspicion is required in these patient groups

The diagnosis of AMI is established on the basis of a



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Guías Clínicas

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Medicina del estilo de vida



Infecciones orofaciales, de cabeza y cuello

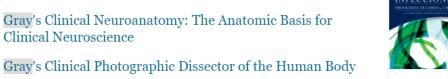




Gray's Atlas of Anatomy

Gray's Basic Anatomy

Clinical Neuroscience





Infecciones orofaciales, de cabeza y cuello



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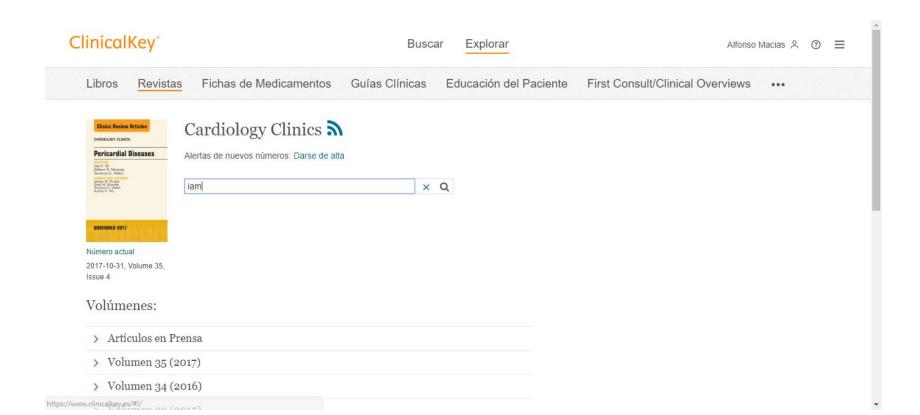


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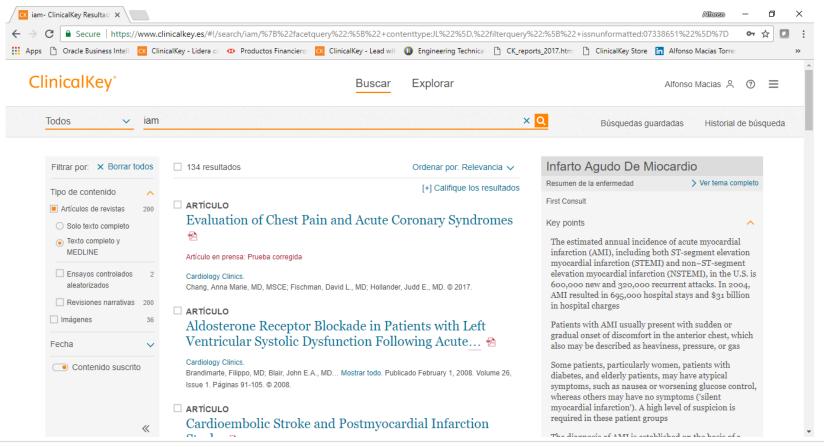














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# Algunas herramientas que debemos enfatizar por su utilidad, aportación y beneficio



ClinicalKey\*

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#### ClinicalKey\* Tools Search Browse Alfonso Macias & ② Back to results x Q All Types ami Saved Searches Search History Find 'ami' in this Page DRUG MONOGRAPH Indications & Dosage Metoprolol Administration First-Metoprolol | KAPSPARGO | Lopressor | Toprol XL Monitoring Parameters Drug Information Provided By Gold Standard

#### Description

Description: Metoprolol is a competitive, beta-1 selective (cardioselective) adrenergic antagonist, which is most similar to atenolol. It has moderate lipid solubility, lacks intrinsic sympathomimetic activity (ISA), and has weak membrane stabilizing activity (MSA). Metoprolol is more lipid soluble than atenolol, but less than propranolol and betaxolol. The degree of lipid solubility affects metoprolol's route of elimination (extensively metabolized) and, theoretically, it's potential for CNS side effects. Metoprolol has a relatively short elimination half-life compared to other cardioselective beta-blockers. It is used for the treatment of hypertension, myocardial infarction, angina, atrial fibrillation or flutter, tremor, migraine, and heart failure. Cardioselective beta blockers are also utilized in the management of heart failure. The COMET trial evaluated carvedilol vs. metoprolol in patients with chronic heart failure (NYHA Class II—IV), and demonstrated a significantly lower all-cause mortality for carvedilol (34% vs. 40% for metoprolol).<sup>27561</sup> The COMET study has been criticized for utilizing the immediate-release form of metoprolol (tartrate) vs. the extended-release formulation (succinate), which has been FDA-approved for heart failure based on the favorable findings of the MERIT-HF trial.<sup>26194</sup> In the MERIT-HF trial, extended-release metoprolol significantly reduced the incidence of sudden death and mortality due to progressive heart failure in patients receiving conventional therapy (e.g., ACE inhibitors, diuretics, and, in most



Contraindications

Adverse Reactions

Global Drug Names

Classifications

References

Interactions

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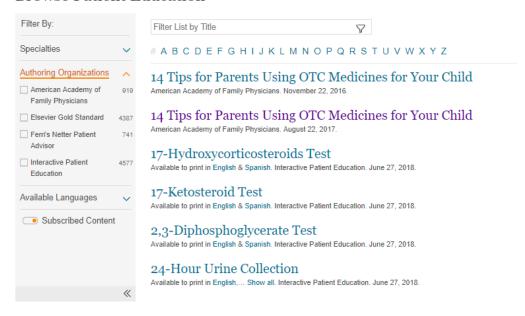
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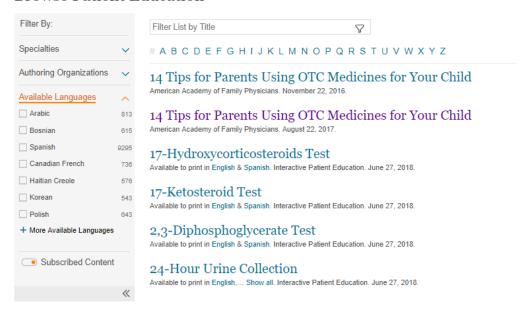




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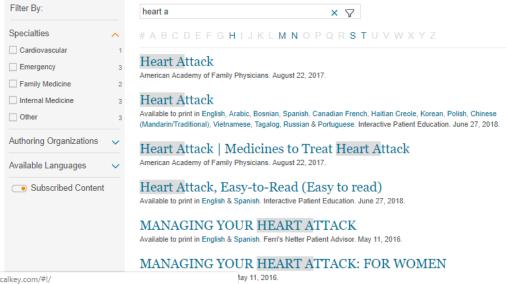




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What are the causes?

What increases the risk?

What are the signs or symptoms?

How is this diagnosed?

How is this treated?

Follow these instructions at home:

Get help right away if:

Summary

#### PATIENT EDUCATION

# Heart Attack

Flsevier Interactive Patient Education © 2018 Flsevier Inc. Last revised: June 27, 2018.

A heart attack (myocardial infarction, MI) is a condition that occurs when an artery in the heart (coronary artery) becomes narrowed or blocked. The narrowing or blockage cuts off the blood and oxygen supply to the heart, which permanently damages the heart. When one or more of your coronary arteries becomes blocked, that area of your heart begins to die. This causes symptoms felt during a heart attack.



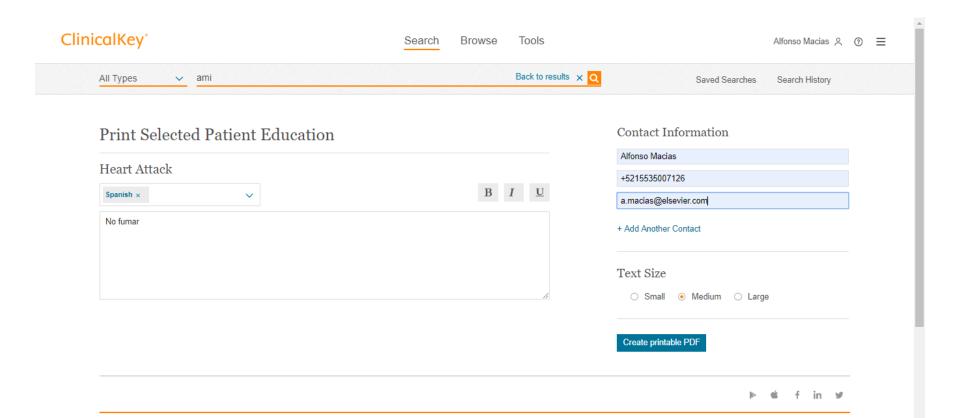
A heart attack is a medical emergency. If you think you are having a heart attack, do not wait to see if the symptoms will go away. Get medical help right away.

What are the causes?

#### Print

Available to print in English, Arabic, Bosnian, Spanish, Canadian French . Haitian Creole . Korean . Polish . Portuguese, Russian, Tagalog, Vietnamese & Chinese (Mandarin/Traditional).











# Infarto de miocardio

#### Heart Attack

Elsevier Interactive Patient Education © 2018 Elsevier Inc

Un infarto de miocardio (IM) es una afección que ocurre cuando una arteria del corazón (arteria coronaria) se estrecha o se obstruye. Este estrechamiento u obstrucción corta el suministro de sang re y oxíg eno al corazón, lo que lo daña de manera permanente. Cuando una o más arterias coronarias se obstruyen, esa zona del corazón comienza a morir. Esto causa los síntomas que se experimentan durante el infarto de miocardio.



Un infarto de miocardio es una emerg encia médica. Si cree que está sufriendo un infarto de miocardio, **no** espere a ver si los síntomas desaparecen. Solicite atención médica de inmediato.

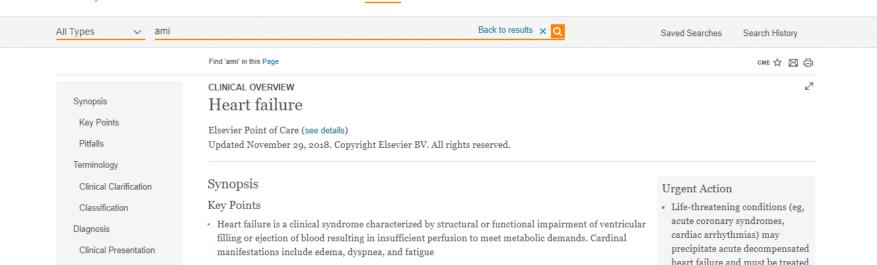
## ¿Cuáles son las causas?

Muchas afecciones pueden causar un infarto de miocardio, lo que incluye:

- Aterosclerosis. Esto ocurre cuando una sustancia grasa (placa) se acumula gradualmente en las arterias. Esta acumulación puede obstruir o reducir el flujo sang uíneo a una o más de las arterias coronarias. Esta es la causa más frecuente del infarto de miocardio.
- Un coág ulo de sang re. Un coág ulo de sang re puede formarse de manera repentina cuando la placa se desinteg ra (se rompe) dentro de una arteria coronaria. Un coág ulo



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emergently

- Diagnosis is suspected based on a thorough history and physical examination. Measurement of natriuretic peptide levels, 2-dimensional echocardiography with Doppler, and chest radiography support the diagnosis of heart failure
- Can be categorized as either heart failure with reduced ejection fraction (left ventricular ejection fraction of 40% or less) or heart failure with
  preserved ejection fraction (left ventricular ejection fraction of 50% or more). Patients with values of 41% to 49% are classified as having
  borderline reduced ejection fraction
- · Coronary artery disease is the predominant cause of heart failure with reduced ejection fraction, which most commonly results in left



History

Causes

Physical Examination

Causes and Risk Factors

Risk Factors And/or Associations Search

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PROCEDURES CONSULT

Right Heart Catheterization and Endomyocardial Biopsy



Last Reviewed Date: 5/1/2013

Editor(s): Catherine M. Otto, MD, J. Ward Kennedy-Hamilton

Endowed Chair in Cardiology, Professor of Medicine

University of Washington School of Medicine, Director, Heart Valve Disease Clinic, Associate Director,



# Procedures Consult 8 Especialidades, +200 procedimientos

# FULL DETAILS

# PRE-PROCEDURE

#### Introduction

See Figure 1.



Figure 1 Insertion of tra

Transvenous or temporal compromised by tachyal acutely improve cardiac

# **PROCEDURE**

Clinical Pearls:

The following text describes blind in placed under ECG or fluoroscopic gu or when the equipment required for

## · Explain the procedure to pa

- If the clinical situation allows, of the procedure.
- · Complications of ventricular p

## Checklist

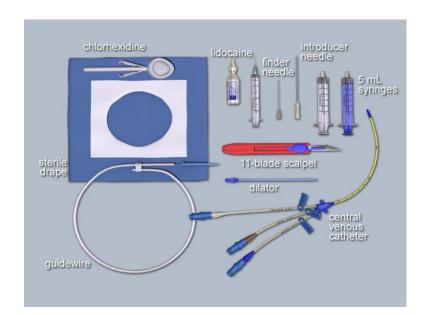
- · Explain the procedure and obtain consent.
- · Observe universal precautions and use sterile technique.
- · Prepare resuscitation equipment.
- · Establish a right internal jugular (preferred) or left subclavian central line.
- · Attach the sterile sleeve of the pacer catheter to the sheath introducer.
- · Check the balloon on the catheter then insert the pacing catheter into the sheath introducer.

# POST-PROCEDURE

#### POST-PROCEDURE CARE

- · Obtain a chest radiograph
  - $\circ\,$  Assess for proper placement of the pacing wire in the right ventricular apex.
  - · Assess for any complications related to central line insertion (e.g., pneumothorax).
- · Obtain a 12-lead electrocardiogram
  - $\circ\,$  The electrocardiogram should show captured pacer spikes before every QRS.
  - · The QRS should be in a left BBB pattern.
  - Right BBB morphologies suggest either coronary sinus pacing or septal perforation.









## Videos

<u>How to Save and Tag Content</u>: This video covers the methods available to save content in ClinicalKey and ClinicalKey for Nursing

<u>How to Search</u>: This video covers the search methods available within ClinicalKey and ClinicalKey for Nursing

<u>How to Share Saved Content Tags</u>: This video covers how to share saved content using tags within ClinicalKey and ClinicalKey Nursing

<u>How to Use Presentation Maker</u>: This video covers how to create a presentation as well as add images to a presentation

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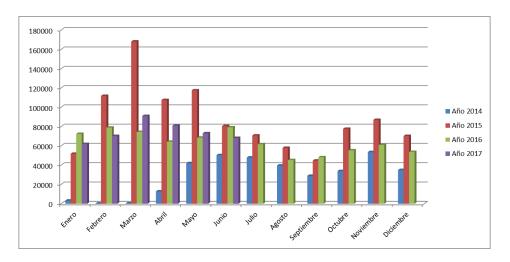


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# Eventos en las suscripción pasada





	Año 2014	Año 2015	Año 2016	Año 2017
Enero	3249	51830	72412	61963
Febrero	235	111785	78935	70325
Marzo	344	168179	74449	91025
Abril	12858	107579	64340	81004
Mayo	42062	117594	68504	73086
Junio	50367	80582	79230	68212
Julio	47920	70781	61773	
Agosto	39696	57937	45297	
Septiembre	28933	44814	48213	
Octubre	33918	77660	55382	
Noviembre	53546	86924	60930	
Diciembre	34967	70246	53756	





	Eventos	Consumo
Jan	85,624	65,912
Feb	92,898 71,6	
Mar	67,840	49,187
Apr	76,521	56,403
	322,883	243,148

**Promedio** 80,721

<b>Precio Anual USD</b>		Pre	cio Mensual USD
\$	164,000	\$	13,667

СрЕ			
Jan	85,624	\$ 13,667	\$ 0.16
Feb	92,898	\$ 13,667	\$ 0.15
Mar	67,840	\$ 13,667	\$ 0.20
Apr	76,521	\$ 13,667	\$ 0.18

СрС			
Jan	65,912	\$ 12,500	\$ 0.19
Feb	71,646	\$ 12,500	\$ 0.17
Mar	49,187	\$ 12,500	\$ 0.25
Apr	56,403	\$ 12,500	\$ 0.22





# Gracias

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