Incidental echocardiographic finding: Fractured inferior vena cava filter

Bhraddeev Sivasmbu, Deepa Kabirdas, Assad Movahed

Abstract

Inferior vena cava filters have gained increasing popularity in recent decades and knowledge on rare complications becomes vital to practicing physicians. A 30-year-old African American male with diabetes mellitus, hypertension, end-stage renal disease, history of deep venous thrombosis and placement of venacaval filter who was seen in the cardiology clinic for cardiac risks stratification prior to renal transplant. Patient denied any cardiac symptoms. A transthoracic echocardiogram was performed and showed two linear echoes bright densities in the right atrium and right ventricle embedded which was later found to be fractured filter struts by computed tomography. We discuss the various outcomes associated with non-retrieval of retrievable IVC filters.

Key words: Inferior vena cava filter, Fractured IVC filter, Cardiac foreign body, Metal in Heart, Incidental echocardiographic finding

Core tip: Retrievable vena cava filters as indicated by the name, is temporary and should be retrieved timely. However noncompliance to followup and retrieval has been associated with various complications which includes life threatening ones.
Complications of Inferior Vena Caval Filters
www.ncbi.nlm.nih.gov ... → PubMed Central (PMC) → 翻译此页
作者：TG Van Ha - 2006 - 被引用次数：18 - 相关文章
Inferior vena cava filters have been shown to be effective in the prevention of delayed complications, including filter fracture, migration, IVC thrombosis, and ... of the IVC by filter strut is usually an incidental finding and typically clinically ...

Inferior vena cava thrombosis: A review of current practice
vmj.sagepub.com/content/19/1/32.full → 翻译此页
作者：BJ McAree - 2013 - 被引用次数：19 - 相关文章
Inferior vena cava (IVC) thrombosis remains under-recognised as it is often not ....
Coronal gradient echo MRI showing atresia of IVC between renal and ... Placement of foreign bodies such as IVC filters (Figures 6 and 7) or venous ... Clinical presentation of IVC thrombosis varies from an incidental radiological finding in an ...

Inferior Vena Cava Filter Placement and Removal
www.radiologyinfo.org/en/info.cfm?pg=venacavalfilter → 翻译此页
In an inferior vena cava filter placement procedure, interventional radiologists ... (DVT), occasionally break up and large pieces of the clot can travel to the lung.

An unexpected cause of pericardial effusion - ScienceDirect
www.sciencedirect.com/science/article/pii/S2352667×18000302 → 翻译此页
作者：JB Mosas - 2015 - 相关文章
Fracture or embolization of IVC filters is a relatively uncommon complication, but ... effusion due to embolization of a fragment of an inferior vena cava (IVC) filter, with ... and an echocardiogram that showed moderate pericardial effusion, without ... (CTA) with electrocardiogram-gating demonstrated an incidental ~2.6-cm ....

Stuck in the Heart: Embolized Strut Fracture of Ivc Filter ...
wwww.snhabstracts.com/...i-stuck-in-the-heart-embolized-strut-fr... → 翻译此页
... to have an incidental finding of linear density in right ventricle (RV) on abdominal x-ray. 
Due to non-compliance, a temporary Bard G2 IVC Filter had been placed which
Stuck in the Heart: Embolized Strut Fracture of IVC Filter - SHM Abstracts
... to have an incidental finding of linear density in right ventricle (RV) on abdominal x-ray. Due to non-compliance, a temporary Bard G2 IVC filter had been placed which ... Inferior Vena Cava Filter Migration to the Right Ventricle Causing ... with bi-annual echocardiographic follow-up to ensure stability of the fragment.

A fractured inferior vena cava filter strut migrating to the left pulmonary ... https://www.ncbi.nlm.nih.gov › NCBI › Literature › PubMed Central (PMC) - 翻译此页
作者：T Hudali - 2015 - 相关文章
2015年6月12日 - Inferior vena cava filters are increasingly used in patients with recurrent venous ... We report a case of fractured IVC filter strut migration to the pulmonary vasculature and we ... Transthoracic echocardiogram showed moderately reduced left ventricular systolic ... A chest x-ray shows the same finding (Fig. 2).

Fractured Inferior Vena Cava Filter Strut Presenting with ST-Segment ... https://www.ncbi.nlm.nih.gov › NCBI › Literature › PubMed Central (PMC) - 翻译此页
作者：D Khurana - 2015 - 被引用次数：2 - 相关文章
2015年4月1日 - The fracture of an inferior vena cava filter strut and its migration to the heart ... An urgent bedside echocardiogram revealed a small pericardial ...

PDF Denali® Vena Cava Filter - Femoral - Bard PV
filtration. The DENAL® Filter is intended to be used in the inferior vena cava ... echo sequence and 10mm for the gradient echo sequence. ... Filter fractures are a known complication of vena cava filters. ... There were no findings of caval occlusion, filter fracture, cranial migration, caudal migration, filter tilt at placement, or ...

An unexpected cause of pericardial effusion - ScienceDirect
www.sciencedirect.com/science/article/pii/S2352667X15000302 - 翻译此页
作者：JB Moses - 2015 - 相关文章
Incidental echocardiographic finding: Fractured inferior vena cava filter

Stuck in the Heart: Embolized Strut Fracture of Ivc Filter - SHM Abstracts
www.shmabstracts.com/.../stuck-in-the-heart-embolized-strut-fracture-of-ivc...
... to have an incidental finding of linear density in right ventricle (RV) on abdominal x-ray. ... Due to non-compliance, a temporary Bard G2 IVC filter had been placed which ... Inferior Vena Cava Filter Migration to the Right Ventricle Causing ... with bi-annual echocardiographic follow-up to ensure stability of the fragment.

A fractured inferior vena cava filter strut migrating to the left pulmonary ...
https://www.ncbi.nlm.nih.gov › NCBI › Literature › PubMed Central (PMC) - 翻译此页
作者：T Hudali - 2015 - 被引用次数：1 - 相关文章
2015年6月12日 - Inferior vena cava filters are increasingly used in patients with recurrent venous ... We report a case of fractured IVC filter strut migration to the pulmonary vasculature and we ... Transthoracic echocardiogram showed moderately reduced left ventricular systolic ... A chest x-ray shows the same finding (Fig. 2).

Fractured Inferior Vena Cava Filter Strut Presenting with ST-Segment ...
https://www.ncbi.nlm.nih.gov › NCBI › Literature › PubMed Central (PMC) - 翻译此页
作者：D Khurana - 2015 - 被引用次数：2 - 相关文章
2015年4月1日 - The fracture of an inferior vena cava filter strut and its migration to the heart ... An urgent bedside echocardiogram revealed a small pericardial ...

[PDF] Denali ® Vena Cava Filter - Femoral - Bard PV
filtration. The DENALI® Filter is intended to be used in the inferior vena cava ... echo sequence and 10mm for the gradient echo sequence. ... Filter fractures are a known complication of vena cava filters. ... There were no findings of caval occlusion, filter fracture, cranial migration, caudal migration, filter tilt at