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Cement-related embolism after lumbar vertebroplasty: A case report

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Abstract

BACKGROUND

Cement-related embolism is a rare but potentially fatal complication in spinal surgery. Cardiac echocardiography can provide valuable information for the early identification.

CASE SUMMARY

A 66-year-old woman who underwent lumbar vertebroplasty and internal

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Pulmonary cement embolization after vertebroplasty, an ...

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Pulmonary embolism with bone cement after vertebroplasty surgery, is not very rare, and can occur in upto 26% of patients undergoing this procedure. **Bone cement** being a foreign body would in reality lead to mechanical **occlusion of pulmonary vasculature**.

Cement pulmonary embolism after balloon kyphoplasty

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC6604037>

Jun 20, 2019 · These procedures involve the introduction of a **cement polymer**, Polymethylmethacrylate (PMMA), into the **vertebral body** which can cause **pulmonary cement embolism (PCE)** from distant **leakage of cement**, by entering the venous plexus or retrograde migration into the aorta via the arterial channels .

Author: Pretty Sara Idiculla, Kartikeya Rajde... **Publish Year:** 2019

Asymptomatic Bone Cement Pulmonary Embolism after ...

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May 07, 2013 · **Acrylic cement pulmonary embolism** is a potentially serious **complication following vertebroplasty**. **Case Report**. A 70-year-old male patient was treated with **percutaneous vertebroplasty** for osteoporotic nontraumatic **vertebral collapse** of L5-S1.

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Pulmonary Cement Embolism after vertebroplasty | Radiology ...

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Cement leakage is the most frequent **complication after percutaneous vertebroplasty and kyphoplasty**. **Leakages** can cause a wide range of complications including asymptomatic damage

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Pulmonary Artery Cement Embolism after a Vertebroplasty

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4499392>

The consequences of cement embolism range widely from being asymptomatic to embolism that can cause paralysis, radiculopathy, or a fatal pulmonary embolism. Here we report an incidental finding of a cement pulmonary embolism following vertebroplasty for a thoracic compression fracture.

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Author: Anas Nooh, Fahad H. Abduljabbar, A...

Publish Year: 2015

Cement pulmonary embolism after percutaneous ...

<https://pubmed.ncbi.nlm.nih.gov/30073141>

Cement embolism is seen in 2.1%-26% of patients after percutaneous vertebroplasty. **Case presentation:** a 38-year-old male who was diagnosed with cushing's syndrome, underwent percutaneous vertebroplasty following vertebroplasty, he presented to emergency department with acute-onset ...



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According to ncbi.nlm.nih.gov

Pulmonary Cement Embolization (PCE) is a rare complication of vertebroplasty surgery. There is no clear guideline for management of this entity. There is no definite protocol for anticoagulation in PCE. This is a case report of our patient who was diagnosed to have Pulmonary Cement Embolization, which was quite significant involving both lungs.

[Pulmonary cement embolization after vertebroplasty, an ...](https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4663864)

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May 07, 2013 · Bone cement embolism is a severe and potentially life-threatening complication of cement (polymethylmethacrylate, PMM) vertebroplasty. We report a case of asymptomatic PMM pulmonary embolism following a surgical vertebroplasty. 2.

Cited by: 17 Author: Girolamo Geraci, Giorgio Lo Iacono, Chia...

Publish Year: 2013

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Jun 27, 2020 · Imaging features of pulmonary cement embolism after vertebroplasty: Seen as dense filling defects along the distribution of pulmonary arteries. Distinguishing pulmonary cement embolism from calcified granuloma: Branching high-attenuation area of more than 500 HU (as shown in the figure

Percutaneous vertebroplasty



Vertebral augmentation, which includes vertebroplasty and kyphoplasty, are similar spinal procedures in which bone cement is injected through a small hole in the skin into a fractured vertebra to try to relieve back pain caused by a vertebral compression fractures.

Wikipedia

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