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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 ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4663864>

**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 ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3662203>

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.

**Cited by:** 16 **Author:** Girolamo Geraci, Giorgio Lo Iacono, Chi...

**Publish Year:** 2013

## Pulmonary Cement Embolism after vertebroplasty | Radiology ...

<https://radiogyan.com/cases/pulmonary-cement-embolism-after-vertebroplasty> ▾

**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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**Cited by:** 17

**Author:** Girolamo Geraci, Giorgio Lo Iacono, ...

**Publish Year:** 2013

## 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.

**Cited by:** 4

**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 for a thoracic compression fracture. 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)  
<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4663864>

Cited by: 6 Author: Nishant Sinha, Vivek Padegal, Satish Sat...  
Publish Year: 2015

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<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3662203>

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.

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