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Manuscript Title:

Intracardiac pulmonary cement embolism in a 67-year-old female after cement-augmented pedicle screw instrumentation (CAPSI): A case report and literature review

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Abstract:

Study Design: A case report and literature review.

Purpose: To present a case of intracardiac pulmonary cement embolism after cement-augmented pedicle screw instrumentation in treating spondylolisthesis accompanied by osteoporosis that was successfully managed by conservative treatment. The treatment and outcome of the patient are described in the hope to shed light on the management of bone cement embolism.

Methods: A 67-year-old female suffered from progressive low back pain and numbness in the lower extremities. She was diagnosed with L4 and L5 spondylolisthesis, spinal stenosis, and osteoporosis. The patient underwent spinal canal decompression, interbody fusion of L4/5 and L5/S1, and cement-augmented pedicle screw instrumentation in the L4-S1 segments.

Results: Three-days postoperatively, an oxygen saturation drop occurred. A CT scan confirmed...

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