Morphine abuse and bilateral digital ischemia

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A 44-year-old man presented to the emergency department with a two-day history of redness and pain in the fingers of both hands (Figure 1A). An intravenous morphine user, he had been injecting morphine bilaterally with the help of a partner for the past six months. The pain in his fingers had started shortly after his most recent injection.

On examination, the patient had thrills over the scars of the brachial injection sites (Figure 1B). His radial pulses were normal and he had a blood pressure of 160/80 mm Hg. Echocardiography was normal. Arteriography of his upper limbs showed distal embolization in the fingers and bilateral brachial pseudoaneurysms (Figure 1C).

The pseudoaneurysms may have been caused by repeated punctures of the patient’s brachial arteries. Drug-related endothelial injury may have led to platelet activation and associated localized thrombosis.1,2 Particulate emboli (e.g., talc used to dilute injected morphine), may have also contributed to the ischemia. Our patient’s digital ischemia improved markedly following resection of his pseudoaneurysms and digital sympathectomy.3,4

REFERENCES

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Figure 1: Photographs show (A) bilateral redness of the fingers and (B) brachial injection sites on the arm of a 44-year-old man with a history of intravenous use of morphine. (C) Angiography in both arms shows bilateral brachial pseudoaneurysms (arrows).