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Carbon dioxide-angiography for patients with peripheral arterial disease at risk of contrast-induced nephropathy

Gupta A *et al.* CO₂ angiography in PAD at risk of CIN

Amol Gupta, Akinsansoye K Dosekun, Vinod Kumar

Abstract

Patients with peripheral arterial disease (PAD) and critical limb ischemia are at risk for limb amputation and require urgent management to restore blood flow. Patients

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In the 1970s, Hawkins pioneered the **intra-arterial** use of carbon dioxide gas for high-risk patients who were **allergic to iodinated contrast material** and for those with **renal failure**.

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To assess the safety and efficacy of carbon dioxide (CO₂) **angiography-guided endovascular therapy (EVT)** for renal, **iliofemoral artery disease**. Background Patients with peripheral vascular disease (PVD) often have **chronic kidney disease (CKD)** and the use of iodinated contrast media may enhance the risk of **contrast-induced nephropathy (CIN)**.

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