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- Am J Surg 164:205-209, 1992.
8. Fergusson DJG, Kamada RO: Percutaneous entry of the brachial artery for left heart catheterization using a sheath: Further experience. *Cathet Cardiovasc Diag* 12:209-211, 1986.
 9. Grollman JH, Marcus R: Transbrachial arteriography: Techniques and complications. *Cardiovasc Intervent Radiol* 11:32-35, 1988.
 10. Cohen M, Rentrop KP, Cohen BM: Safety and efficacy of percutaneous entry of the brachial artery versus cutdown and arteriotomy for left sided cardiac catheterization. *Am J Cardiol* 57:682-684, 1986.
 11. Fellmeth BD, Roberts AC, Bookstein JJ, et al: Postangiographic femoral artery injuries: Nonsurgical repair with US-guided compression. *Radiology* 178:671-675, 1991.
 12. Sorrell KA, Feinberg RL, Wheeler JR, et al: Parent color flow duplex directed manual occlusion of femoral false aneurysms. *J Vasc Surg* 17:571-577, 1993.
 13. Kent KC, McArdle CR, Kennedy B, et al: A prospective study of the clinical outcome of femoral pseudoaneurysms and arteriovenous fistulas induced by arterial puncture. *J Vasc Surg.* 17:125-133, 1993.
 14. Subodh K, Agrawal SK, Luiz Pinheiro L, et al: Nonsurgical closure of femoral pseudoaneurysms complicating cardiac catheterization and percutaneous transluminal coronary angioplasty. *JACC* 20:610-615, 1992.
 15. Kehoe ME: US-guided compression repair of a pseudoaneurysm in the brachial artery. *Radiology* 182:896, 1992.

DISCUSSION

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Ultrasound-directed compression (USDC) thrombosis of iatrogenic pseudoaneurysms and arterial venous fistulae resulting from diagnostic or therapeutic endoluminal catheterization has become widely accepted as a means of treating these complications. When successful, this technique avoids surgical intervention, reduces hospitalization costs, and reduces morbid risks. Unfortunately, USDC is not always effective or appropriate; therefore, it is essential to clarify indications and contraindications for its use. Thera-

peutic failures of USDC most commonly occur in treating patients with arteriovenous fistulae and in treating patients who have had cardiac stents placed, requiring aggressive posttreatment anticoagulation. Unless arteriovenous fistulae are hemodynamically significant they probably should not be treated at all. Unless the coagulation system can be normalized, compression thrombosis of pseudoaneurysms will likely not succeed, and in this setting, surgery is more appropriate than compression therapy. USDC is most effective in the treatment of pseudoaneurysms that develop from diagnostic contrast arteriography and/or therapeutic balloon angioplasty, which does not require extended anticoagulation management.