

Supplemental Digital Content 4. Advantages and disadvantages of REBOA placement methods

Method	Advantages	Disadvantages
Portable X-ray	Easily available	Increased procedure time
	Radiological visualization	Non-real time procedure
	High reliability	Need for X-ray equipment or portable X-ray machine
Fluoroscopy	Radiological visualization	Resource problem (fluoroscopic system and radiation control room, etc.)
	Real-time procedure	
	High reliability	
Ultrasonography	Ultrasonographic visualization	Need for sonography and sonographer
	Real-time procedure	Limited visual field
	High reliability	Time-consuming if using transesophageal echocardiography
Fixed-distance model	Quick and easily available	Technically difficult
	Not need any special equipment	Individual variability
External measurement	Quick and easily available	Blind placement
	Not need any special equipment	Lack accuracy
		Blind placement