Objective(s): This video demonstrates the utilization of intra-operative cone-beam CT and image fusion for guided needle vascular access. Cone-beam CT allows for direct and safe puncture into the vascular structure of interest for multiple applications including translumbar and transcaval aortic sac embolization, venous malformation embolization. Pre-operative image planning and intra-operative imaging is critical for successful minimally invasive vascular interventions. This video describes the step by step the process of cone-beam CT in the hybrid operative suite. Image fusion allows pre-operative image data and intra-operative image data acquired to be used simultaneously for safe vascular access and embolization techniques, among other vascular applications.

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