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## Perioperative EVLT Images by Duplex Ultrasonography and 3-Dimensional CT

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**E**ndovenous laser treatment (EVLT) has been recently well established as an effective modality of elimination for varicose veins. Obliteration and eventual disappearance of the treated vein has been usually confirmed with aid of duplex ultrasound imaging.

On the other hand, CT of the varicose veins and volume-rendered 3D reconstruction can provide operator-friendly images and excellent road map of perforators, despite disadvantages such as high cost and extra burden of radiation.

For the purpose of 3D evaluation of obliteration and eventual disappearance of the treated vein, we analyzed pre-and post-EVLT images of 3D CT in 17 patients taken with consent.

Among the 17 patients (14 women, 3 men; mean age, 56.2 years; range, 33-72 years), 9 patients had bilateral varicose veins and remaining 8 patients had varicose veins in only one limb. Total of 26 EVLT procedures for the greater saphenous vein were performed. The mean interval between EVLT and postoperative CT examination was 12.7 months with range of 5-27 months.

Among 26 limbs, 23 proved to be three-dimensionally obliterated. In the remaining 3 limbs, two were patent and one was reanalyzed.