Dear Editor,

In your journal I really liked reading the papers by Gianesini et al. Short endovenous laser ablation of the great saphenous vein in a modified CHIVA strategy, and Laser-assisted strategy for reflux abolition in a modified CHIVA approach.

Saphenous sparing procedures demonstrated competitive results whenever compared with ablative ones.

For this reason, in the last years I also experimented an innovative laser procedure with the aim of sparing the saphenous vein.

The strategy is to reduce the enlarged great saphenous vein calibre by creating only partially shrunk rings of decreased calibre in the preterminal valve region of the great saphenous vein and then every 5 cm downward, covering a total length of 20 cm (Figure 1). The procedure is performed by a 1470 nm laser.

Neither crossectomy nor total vein occlusion is done. In this way it is possible to spare the drainage of the junctional tributaries and to avoid the Reecck paradox concerning the post-procedural network predisposition to recurrence.

Phlebectomy of the incompetent tributaries along the leg completes the procedure.

The rings of decreased calibre constitute an area of increased resistance, so counteracting the reflux coming from the incompetent junction during the diastole. During the muscular systole the flow accelerates through the reduced calibres following the Castelli law, consequently reducing the shear stress and thus the inflammation on the vessel wall.

Technically these rings are created delivering 24 J/cm.

We deliver 4 W for 6 s, never increasing the lead over 24 J/cm in order to avoid an excessive damage of the wall.

After every ring shrunk a sonographic check is performed. The targeted percentage reduction is 50% of the pre-operative calibre.

Following our oral presentation at the XV Pan American Congress of Phlebology and Lymphology of Lima Peru on May 13, 2012, our work was awarded with the 1st prize of the XX Argentine and International Phlebology Congress SAFYL 2013. We presented our preliminary experience also at the XVII World Congress of the UIP Boston 2013 and published the pilot study on the Journal of Phlebology of the Argentinean Society.

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Figure 1. Rings of calibre reduction favoring a systolic anterograde flow and a diastolic retrograde draining flow into a re-entry perforator.
References