

# A new textbook for saphenous vein sparing surgery: CHIVA strategy permits to achieve the goal also using modern endovascular technology

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It is my great honor and privilege to introduce the textbook titled *Saphenous Vein-Sparing Strategies in Chronic Venous Disease* by three world renown authorities, Drs. Zamboni, Mendoza and Giancesini, edited by Springer Nature (Figure 1).

This book comes in a timely manner whereby majority of current phlebology practice in the Western hemisphere focused on ablative method, and it shines a light on a much-needed topic: *Where did saphenous sparing technique go?*<sup>1</sup>

Prof Zamboni in chapter 1, observes: *A traditional reason to spare the saphenous trunk is to be found in its possible role as arterial bypass. At the same time, sparing the saphenous trunk leaves a potential flow route in case of thrombotic occlusion of the deep system. Last but not least, saphenous sparing preserves a main conduit for tissue drainage: a hemodynamic scenario that is considered as the basis for reducing the recurrence onset.*<sup>2-4</sup>

The rationale of the strategy is the application of the laws of physics with the aim of restoring physiological pressure gradients. This target can be reached by means of selective ligations (CHIVA, *cure conservatrice et hémodynamique de l'Insuffisance veineuse en ambulatoire*) after an accurate

preoperative mapping guiding the treatment of the specific leaking points or ablation of incompetent tributaries (ASVAL, ambulatory selective varicose vein ablation under local anaesthesia).<sup>5,6</sup> Alternatively, also for sparing purposes, the sapheno-femoral/sapheno-popliteal junction can be efficiently interrupted by the means of modern thermal or not thermal, tumescent or not tumescent techniques.<sup>7,8</sup>

The book, about 300 pages with 14 chapters, is magnificently illustrated for its primarily educational purpose. It includes color schemes, color Doppler examples, mapping and surgery techniques so that the reader, even a neophyte of chronic venous diseases, can have an updated text that immediately puts the reader in a position to test the knowledge in the clinical setting (Figure 2).

The textbook is really an updated reference on the fundamentals of venous disease from basic science to hemodynamic to diagnostics and saphenous sparing techniques. The in depth overview on both surgical and endovenous interventions based on saphenous sparing principles is not only scholarly and educational but instructive with clear understanding. It is one of the books all phlebologists must have as a reference whether one practices saphenous ablative, saphenous sparing or both approaches

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## References

1. Zamboni P, Mendoza E, Giancesini S, Editors. Saphenous vein-sparing strategies in chronic venous disease. Springer Nature 2018, available from: <https://doi.org/10.1007/978-3-319-70638-2>
2. Lim CS, Gohel MS, Shepherd AC, et al. Venous hypoxia: a poorly studied etiological factor of varicose veins. *J Vasc Res* 2011;48:185-94.
3. Carandina S, Mari C, De Palma M, et

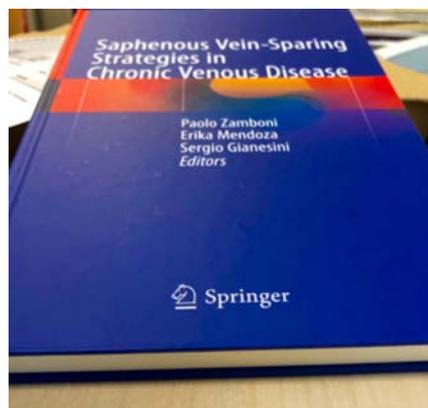


Figure 1. The cover of the new textbook.

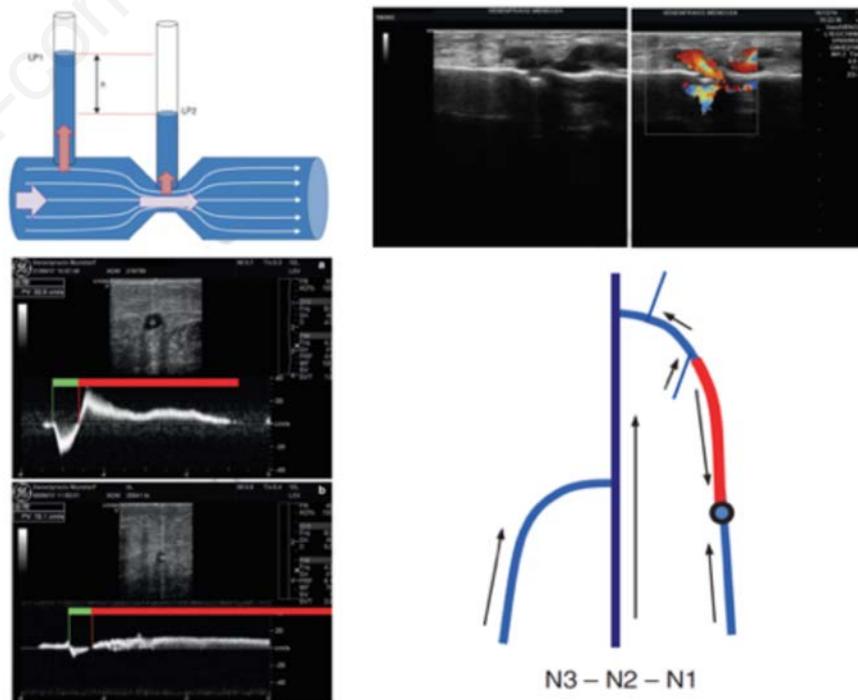


Figure 2. Exemplification of the superb illustrations of the new textbook.

- al. Varicose vein stripping vs haemodynamic correction (CHIVA): a long term randomised trial. *Eur J Vasc Endovasc Surg* 2008;35:230-7.
4. Bellmunt-Montoya S, Escribano JM, Dilme J, Martinez-Zapata MJ. CHIVA method for the treatment of chronic venous insufficiency. *Cochrane Database Syst Rev* 2013;(7):CD009648.
  5. Franceschi C, Ermini S. The evaluation of essential elements defining varicose vein mapping. *Veins and Lymphatics 2014 - Readers' Forum*, available from: <https://www.pagepressjournals.org/index.php/vl/article/view/vl.2014.4922>
  6. Pittaluga P, Chastanet S. Treatment of varicose veins by ASVAL: results at 10 years. *Ann Vasc Surg* 2017;38:e10.
  7. Giancesini S, Menegatti E, Zuolo M, et al. Short endovenous laser ablation of the great saphenous vein in a modified CHIVA strategy. *Veins and Lymphatics* 2013;2:e21.
  8. Giancesini S, Menegatti E, Zuolo M, et al. Laser-assisted strategy for reflux abolition in a modified CHIVA approach. *Veins and Lymphatics* 2015;4:5246.

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