

**Comparative study between injection sclerotherapy with  
polidocanol and injection sclerotherapy with polidocanol with  
intensive pulsed light in the treatment of lower limb varicosities**

Thesis

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## Abstract

**Background:** Varicose veins are veins that have become enlarged and tortuous. Sclerotherapy is a well-tolerated and highly efficacious treatment for varicose and telangiectatic leg veins. Intense pulsed light is high-intensity light source, which emit polychromatic light with noncoherent broad wavelength spectrum of 515–1,200 nm. The basic principle of IPL devices is a more or less selective thermal damage of the target.

**Aim of the work:** This study aims to perform a clinical comparison between injection sclerotherapy with POL1% versus injection sclerotherapy of POL1% plus IPL in the treatment of lower limb varicosities.

**Patient and Methods:** The present study included 30 female patients with bilateral primary varicosities. All patients subjected to general and local examination and venous duplex to exclude saphenofemoral, saphenopopliteal or any perforator incompetence. Then, the patients were categorized into 2 groups: Group (A) performed injection sclerotherapy with POL 1% only and group (B) performed injection sclerotherapy with POL 1% followed by 4 sessions of IPL on residual very small telangiectasias that couldn't be injected.

**Results:** Our study showed that there was no statistically significant difference between the two groups as regarding the overall patient and physician satisfaction (p-value >0.05).

**Conclusion:** In conclusion we don't advice to follow the injection sclerotherapy by IPL as it didn't improve the satisfaction neither of the patients nor of the physician.

**Keywords:** **Varicose veins – Polidocanol – Intense pulsed light.**