

# Effective treatment of Veno-occlusive erectile dysfunction with combination embolization surgery, Autological Stem Cells and VEGF

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## Abstract

**Introduction:** The venous leakage is one of the most often reason of erectile dysfunction (ED) in young and middle age men. The main reason of veno-occlusive ED (VOED) is the insufficiency venous obstruction in corpora cavernosa under tunica albuginea that is why all types of veno-occlusive operations have particular and short term effect up to renovation of venous leakage in half year. Conservative treatment of VOED with PDE-5 has a low effectiveness. Evermore young patients deny Penile prosthesis implantation for psychological reason.

**Objective:** We want to stimulate growth of endothelial valves under tunica albuginea with injections autological mesenchymal stem cells and autological VEGF (Vascular endothelial growth factor) and combine it with veno-occlusive surgery.

**Materials and Methods:** On the basis of the Kharkiv Regional Clinical Centre of Urology and Nephrology, Andrology deratment in 2012-2021 we carried out comprehensive examination and treatment of 174 patients with VOED. Most of them 142 (81.6%) have left side or bilateral varicocele. The average patient age is 36.5 +4.1 years. Patients with prostatitis or depression/anxiety were excluded from the investigation

or treated previously. We provided embolization of deep dorsal and Santorini plexus veins for patients with distal form of VOED throw deep dorsal vein –46 patients - Group 1. We performed ligation of deep dorsal and penile veins with Marmar surgery from peno-pubical incision for proximal form of VOED – 68 patients – Group 2, And we made both methods together for 62 patients –Group 3 with combination of proximal and distal leak. Patients with only surgical methods created subgroup A – 105 men.

## Biography

Prof. Eric Allaire is working Post-doctoral Fellow, Department of Vascular Surgery, University of Washington, and Seattle, USA.