

Publication / Title	Type	Author/Institution	Endpoints / Summation
Phlebology. 2011 Jul 29 Mechanochemical tumescentless endovenous ablation: final results of the initial clinical trial.	Publication	Elias S, Raines JK Columbia Vein Programmes, Columbia University, New York, NY.	Thirty GSVs in 29 patients were treated. All patients have reached six-month follow-up; the average number of postoperative days is 260. No adverse events have been reported. The Primary Closure Rate is 96.7%.
J Endovasc Ther. 2011 Jun;18(3):328-34 Endovenous mechanochemical ablation of great saphenous vein incompetence using the ClariVein device: a safety study.	Publication	van Eekeren RR, Boersma D, Elias S, Holeywijn S, Werson DA, de Vries JP, Reijnen MM Department of Surgery, Rijnstate Hospital, Arnhem, The Netherlands.	Initial success 100%. 26 of 30 veins completely occluded. VCSS significantly improved. This study showed that endovenous MOCA, using polidocanol, is feasible and safe in the treatment of GSV incompetence.
Ned Tijdschr Geneeskd. 2011;155(33):A3177 Endovenous mechanochemical ablation for varicose veins—a new endovenous technique without tumescent anaesthesia	Publication	van Eekeren RR, Boersma D, de Vries JP, Reijnen MM Rijnstate Ziekenhuis, afd. Heelkunde, Arnhem, the Netherlands	Dutch Publication
VEITH November 2011 The use of ClariVein for patients with lower extremity chronic venous disease: An observational multicenter study and short term results	Poster	Muath Bishawi, Angela Kokkosis, Mathew Fakoury, Antonio P Gasparis : SUNY at Stony Brook, Department of Surgery, Div. of Vascular Surgery	Short term follow-up was done to acquire occlusion rate. Out of 419 patients with follow-up data, 406 (97%) were occluded for GSV, and 100% for SSV
Veith Nov 2011 Endovenous Management of Varicose Veins, Session #6	Presentation	Jean-Paul de Vries, MD, PhD Head of Department of Vascular Surgery, St. Antonius Hospital, Netherlands	Data On 300 Patients Treated With GSV Pharmacomechanical Ablation
ACP Nov 2011 Emerging Technologies	Presentation	Steven Elias, MD, FACS, FACP Mt. Sinai School of Medicine NY Englewood, NJ	New and Emerging Technologies Presentation on the ClariVein Device
Oct 2011 Introduction to ClariVein dose-finding study.	Presentation	Yee Lai Lam, Cees Wittens Landelijk veneus overleg 10-11-2011 Utrecht, The Netherlands	A study to identify the best component and dosage for the ClariVein system. This randomized study will look at the use of 2%, 3% Polidocanol and 1% Polidocanol foam in a 30cm treated vessel with 5ml.
Oct 2011 Berlin Mechano-chemical endovenous ablation in great and small saphenous vein incompetence using ClariVein TM; Initial results of an innovative tumescentless technique.	Presentation	Doeke Boersma ^a MD; Ramon RJP van Eekeren ^b MD; Debora A.B. Werson ^a ; Michel MJP Reijnen ^b MP, PhD; Jean-Paul PM de Vries ^a MD, PhD	Prospective study of 227 consecutive patients, treated for 268 insufficient veins with MOCA using ClariVein™ device. From June 2010 to June 2011 268 legs were treated (210 GSV, 44 SSV, 14 ASB). The median length of treated veins was 37cm (15-58). Initial technical success of MOCA was 100%. Median VAS pain score during treatment was 3 (IQR 2-4). No nerve damage occurred. The majority of legs (221) already had 6 weeks follow-up duplex scan: 218 of 221 treated veins (99%) remained obliterated. In three patients (1%) total recanalisation occurred. 72 patients had 6 months duplex scans and 68 (94%) veins remained obliterated. VCSS decreased significantly from 4 (IQR 3-6) before treatment to 2 (IQR 1-3) 6 weeks after treatment. No patients suffered from major complications; local hematoma at the puncture site was seen in 26% and superficial thrombophlebitis in 21%, resolving within a week.
Sept 2011 The ClariVein Study European Society of Vascular Surgery, Athens	Presentation	Reijnen MMPJ Rijnstate Hospital, Arnhem, The Netherlands	Review of Safety Study and results of Registry Study : Polidocanol 2% and 1.5% 100 GSV, Primary Endpoints - Occlusion rate, Clinical Improvement, Complications Rate. Secondary Endpoints - QOL, Post-Op pain. Results @ 6 Weeks N= 60- Technical Success 94% Results @ 6 mo. N=22 91%
Sept 2011 European Chapter Meeting, International Congress of Union International Phlebology. ClariVein Mechano-Chemical Ablation	Presentation	Steven Elias, MD, FACS, FACP, Mt. Sinai School of Medicine, NY, Englewood, NJ	ClariVein - A Novel Treatment for Venous Incompetence
June 2011 Mechano-chemical endovenous ablation in great and small saphenous vein incompetence using ClariVein;	Presentation	Boersma D SVS 2011 Vascular Annual Meeting, Chicago June 16-18	Initial results of an innovation tumescentless technique.
May 2011 The First Results of an innovative technique, Chirurgendagen, Veldhoven	Presentation	Boersma D Chirurgendagen, Van Eekeren RRJP, Werson DAB , Reijnen MMPJ, Van de Mortel RHW, de Vries JPPM.	Mechano chemische endoveneuze ablatie bij van veneuze staminsufficiënte van de vena saphena magna en parva met de ClariVein catheter; de eerste resultaten van innovatieve techniek
April 2011 Charing Cross, London,	Presentation	Jean Paul de Vries, Department of Surgery, Rijnstate Hospital, Arnhem, The Netherlands	
March 2011 European Vascular Course Safety and Feasibility of Mechano-Chemical Ablation of Varicose Veins : Initial Results	Presentation	Michel MPJ Reijnen MD, PHD and Jean Paul PM deVries MD, PHD Rijnstate Hospital, Arnhem, The Netherlands/St. Antonius Hospital Nieuwegein, The Netherlands	Polidocanol used in 30 GSV in 25 pts. 29 of 30 (97%) obliteration. 6 week f/up N=30 29 of 30 obliterated.
February 2011 Bonner Venentage, Bonn Germany	Presentation	Michel MPJ Reijnen MD, PHD and Jean Paul PM deVries MD, PHD Rijnstate Hospital, Arnhem, The Netherlands/St. Antonius Hospital Nieuwegein, The Netherlands	Short term results of mechano-chemical obliteration of the great saphenous vein.
November 2010 Elias S. Mechano-chemical endovenous ablation (ClariVein™) – American College of Phlebology 24th Annual Congress, Florida.	Presentation	Steve Elias, Columbia	Final Results of the first clinical trial