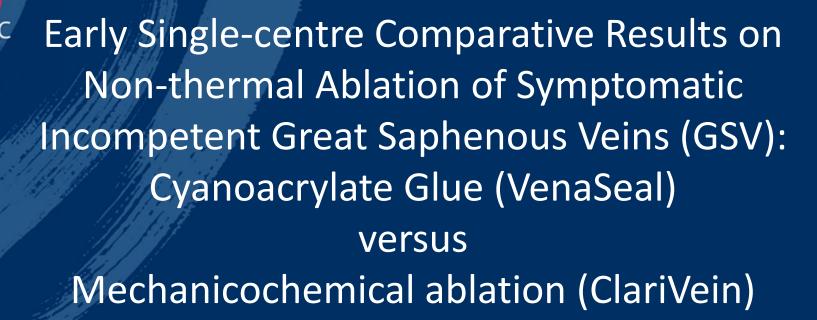
#### The HKU Scholars Hub





Title	Early single-centre comparative results on non-thermal ablation of symptomatic incompetent great saphenous veins (GSV): cyanoacrylate glue (VenaSeal) versus mechanicochemical ablation (ClariVein)
Author(s)	Law, Y; Chan, YC; Cheung, GCY; Ting, ACW; Wong, ACC; Cheng, SWK
Citation	The 2016 Leipzig Interventional Course (LINC), Leipzig, Germany, 26-29 January 2016
Issued Date	2016
URL	http://hdl.handle.net/10722/223286
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#### 香港大學外科學系血管外科

Division of Vascular & Endovascular Surgery, Department of Surgery, The University of Hong Kong,

Queen Mary Hospital, Hong Kong.

### Disclosure

Speaker	name:
	.Yuk LAW
I have th	e following potential conflicts of interest to report:

Trip sponsorship by IntegMed Ltd

I do not have any potential conflict of interest

- Consulting
- Employment in industry
- Stockholder of a healthcare company
- Owner of a healthcare company
- Other(s)















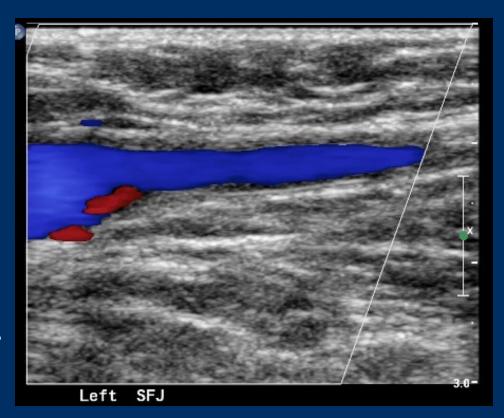






#### Methods

- Single center prospective, non randomized comparative study for evaluation of safety and efficacy of VenaSeal v.s. Clarivein
- Primary outcomes:
  - Complications
  - Clinical recurrence of varicosity and reintervention
  - Radiological duplex
     ultrasound GSV
     obliteration rate: 4 days,
     1 week, 1 month, 3
     months, 6 months



### Patients' characteristics

VenaSeal group: 43 legs in 22 patients ClariVein group: 30 legs in 18 patients

	VenaSeal (n=22)	ClariVein (n=24)	P value
Median age	62 (range 39-80)	60.5 (range 44-76)	NS*
Male: Female	6:16	8:16	NS^
Co-morbidities			
- DM	2/22	0/24	NS^
- HT	9/22	4/24	NS^
- Cardiac	6/22	2/24	NS^
- Renal	1/22	0/24	NS^
- COPD	0/22	0/24	NS^
Sides			
- Unilateral	1/22	18/24	<0.001^
- Bilateral	21/22	6/24	

<sup>\*</sup>Student t test, ^chi square test

# Leg varicose vein characteristics

	VenaSeal (n=43)	ClariVein (n=30)	P value
CEAP clinical			
classification	28	15	
- C3	12	9	NS^
- C4a	1	3	
- C4b	1	0	
- C5	1	3	
- C6			
Mean diameter of GSV (mm)	7.2 (range 3.9-11.4)	6.5 (range 5.0-10.0)	NS*
Mean treatment length of GSV (cm)	28.4 (range 20-33)	32.8 (range 25-38)	0.001*

<sup>\*</sup>Student t test, ^chi square test

## Operative outcomes

	VenaSeal (n=43)	ClariVein (n=30)	P value
Mean operative time (minutes)	64.6 (range 28- 99)	72.0 (range 25- 125)	NS*
Primary success	43/43 (100%)	29/30 (96.7%)	NS^
Access - Percutaneous - Open	43/43 (100%) 0/43	27/30 (90%) 3/30	NS^

<sup>\*</sup>Student t test, ^chi square test

One procedure failure for ClariVein group due to very tortuous GSV; and hence excluded from subsequent analysis

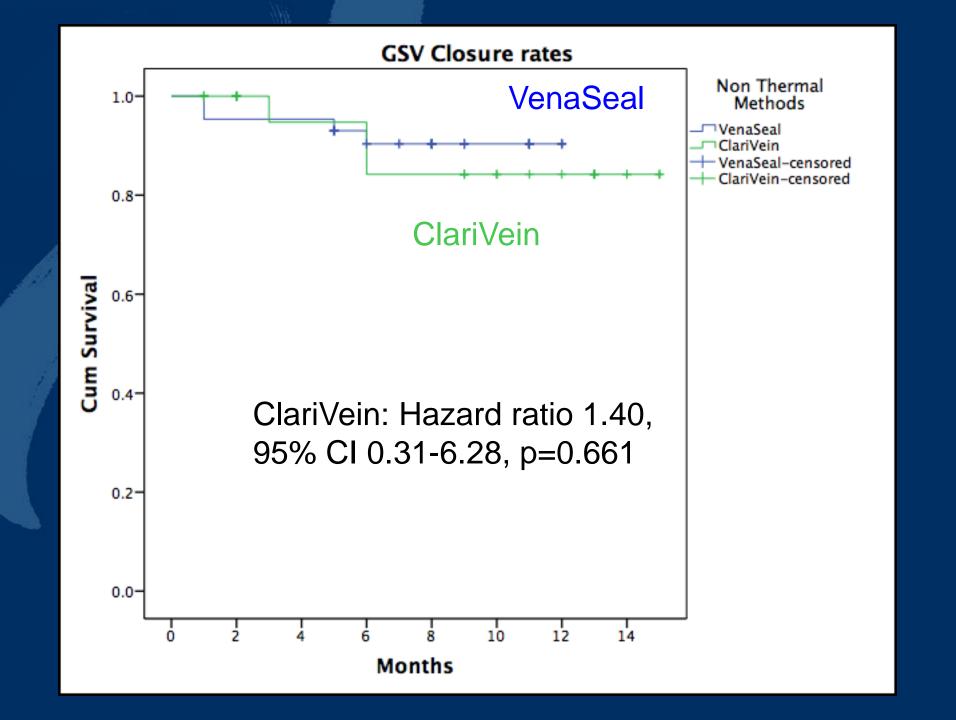
# Post-operative complications

	VenaSeal (n=43)	ClariVein (n=29)	
Deep Vein thrombosis	0	0	NS^
Thrombus extension to deep vein	0	3	NS^
Parenthesis	1	0	NS^
Weakness	0	0	NS^
Wound infection	1	0	NS^
Cellulitis	0	1	NS^
Symptomatic thrombophlebitis	0	2	NS^

^chi square test

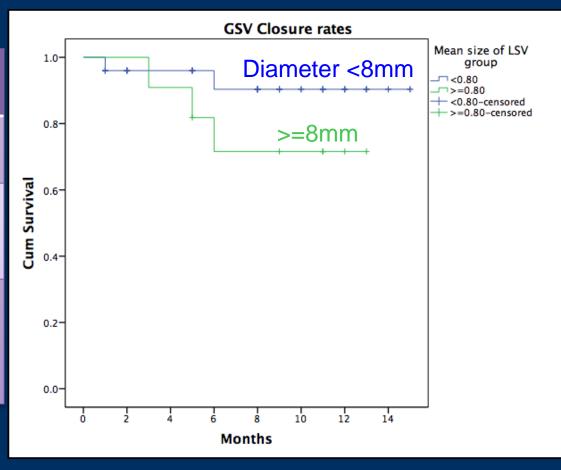
### Clinical outcomes

- VenaSeal group: median follow up period 9 months (range 5-12)
- ClariVein group: median follow up period 9.5 months (range 1-15)
- No clinical recurrence or secondary intervention



### Predictors of recanalization

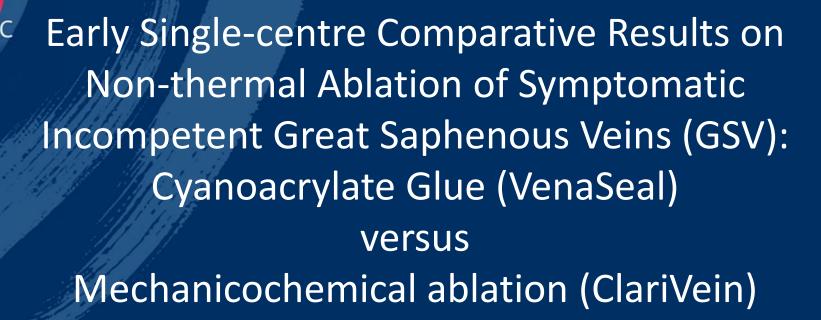
	SERVERS STATE & CONTRACT OF THE SERVERS STATE OF TH			
	Hazard ratio	95% CI	P value	
ClariVein	1.40	0.31- 6.28	0.661	
Mean diameter >= 8mm	3.10	0.69- 13.89	0.139	
Mean treatment length <20cm	3.05	0.53- 17.62	0.212	



### Conclusion

- Both treatment modalities were safe with comparable clinical and radiological outcomes
- Trend towards more recanalization in GSV with larger diameter







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