

I have no conflicts with this talk

Consultant to

Angiodynamics,

BTG, Amsel, Veniti, Vascular Insights

Treatment Of C2 Varicose Veins- Should Never Be Reimbursed

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CONTROVERSIES & UPDATES



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Is C2 Treatment Medical Necessary?

Or

Is it Mostly a Cosmetic Problem?



My Insurance Company Denied Me Coverage Doctor?!







Difficult for MDs

Preventive care

Loss of revenue

Difficult for Patients Out of pocket \$ Expectations Difficulty for Insurance insurance cost

Over 20 million patients with GSV reflux





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SO WHAT IS/ARE THE DEFINITION(S) OF MEDICAL NECESSITY?



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Medical necessity is a <u>United States</u> legal doctrine, related to activities which may be justified as reasonable, necessary, and/or appropriate, based on <u>evidence-based</u> clinical <u>standards of care</u>.



 The definition of the term medical necessity varies:

Providers point of view

 Medical necessity is used by managed care plans as a rationing tool to deny access to necessary care, especially to those patients with special health care needs.



The definition of the term medical necessity varies:

- Federal government's point of view
 - Medicare and Medicaid statutes authorize payment only for *medically necessary* care and impose criminal and civil liability for filing claims that are "medically unnecessary"



SO IS THERE MEDICAL RATIONALE TO TREAT C2 DISEASE?



Clinical Classifications with examples



- C1 telanglectasias or reticular veins
- C2 varicose veins
- C3 edema
- C4 skin changes C4a: pigmentation and/or eczema C4b: lipodermatosclerosis and/or atrophie blanche
- C5 healed venous ulcer
- C6 active venous ulcer

S symptoms including ache, pain, tightness, skin irritation, heaviness, muscle cramps, as well as other complaints attributable to venous dysfunction

A asymptomatic









C. - ulcer scar





C₄ - lipodermatosclerosis and eczema



C - active ulcer

Distribution and prevalence of reflux in the superficial and deep venous system in the general population – results from the Bonn Vein Study, Germany



Table I. Description of the study population (N = 3016) included in prevalence analyses

1	N	%
Gender		
Female	1694	56.2
Male	1322	43.8
Age		
18-39 y	1013	33.6
40-59 y	1128	37.4
60-79 y	875	29.0
Body mass index (kg/m ²)		
<20	43	1.4
20-24.9	1278	42.5
25-29.9	1153	38.3
30-34.9	508	16.9
≥35	26	0.9
missing	8	
C stages of the CEAP classification		
C0	290	9.6
C1	1777	59.0
C2	432	14.3
C3	407	13.5
C4	86	2.9
C5-C6	22	0.7
missing	2	



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Prevention of Disease

Progression



Bonn Vein II Study

- 31.8% in 6 years with saphenous reflux (4.8%/y)



Rabe E, Pannier F, Ko A, et al. Incidence of Varicose Veins, Chronic Venous Insufficiency, and Progression of Disease in the Bonn vein Study II.

Chronic venous disease progression and

73 patients were prospectively evaluated using physical, DUS and classified by CEAP. After 5 years of follow-up, development of new sites of reflux among the contralateral asymptomatic limbs

3% progressed from C2 to C4 disease

<i></i>	\mathbf{U}_I	02	03	01,2	2,3	-1,2,3	2,3	2,3,4
Co	5		2ª	5 ^a	5ª	6 ^a		
C ₁		6	3 ^a					
C_2			• • •				2	2ª



The Edinburgh Vein Study

47.4% of patients with C2 disease showed clinical deterioration over a 13-year period. Rate of disease progression was 3.54% per annum

Robertson L, Boghossian S, Evans C, et al. Incidence and Risk Factors for Development of Varicose Veins in the General Population: Edinburgh Vein Study. Abstract presented at: American Venous Forum, 23rd annual meeting; 2011; San Diego, CA

Annals of the Royal College of Surgeons of England (1991) vol. 73, 223-226

The varicose vein waiting list: results of a validation exercise

S F Brewster BSc MB BS Senior House Officer

S Nicholson MD FRCS Lecturer in Surgery

One of the earliest longitudinal studies documenting the details of

Since initial presentation, 68 patients (22%) had developed skin changes and 12 patients (3.9%) developed venous ulcerations



 Patients with uncomplicated varicose veins, disease progression to higher C stages is likely to be somewhere between
3.5% and 7% per annum

 Skin changes and deep venous incompetence are associated with a significantly higher risk of venous ulceration.



 The rate of progression from skin changes to venous ulceration is unknown, but based on the available evidence, it is estimated to be in the in the region of 1% to 2% per annum.

Societal costs of chronic venous disease in CEAP C4, C5, C6 disease

E Rabe* and F Pannier[†]

*Department of Dermatology, University of Bonn, Sigmund-Freud-Str. 25, 53105 Bonn, Germany; *Department of Dermatology, University of Maastricht Medical Centre, MUMC+, Maastricht, Netherlands

European countries and the USA

Hundreds of millions of Euros each year for the treatment of superficial reflux, the treatment of venous ulcers, and the cost of days lost from work due to venous disorders

In the USA, venous ulcers caused the loss of 2 million work days per year in 2002

Am J Surg 2002;183:132–7



J Vasc Surg. 2010 Nov;52(5 Suppl):39S-44S.

Fifty percent reduction in venous ulcer prevalence is achievable - Swedish experience. Nelzén O.

Cohorts	Estimated in Sweden	Number needed to treat = NNT	
All with varicose veins (VV)	2 000 000	(11 000 000)	400
All with symptomatic VV	500 000	(2 800 000)	100
All with VV + edema	400 000	(2 000 000)	80
All with skin changes	80 000	(400 000)	8



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C2 DISEASE AND QUALITY OF LIFE



- Varicose Veins symptoms--- non- specific?
 - Prevalence symptoms increase with age

Thus, the treatment of symptomatic varicose veins based upon quality-of-life concerns has merit

Bradbury A, et al. BMJ 1999;318:353–6 Biland L, Acta Chir Scand Suppl 1988;544:9–11 Weddell JM., 1966. Br J Prev mith JJ, J Vasc Surg 1999;30:710–9)



Role of Compression In C2 Disease

- Compression is a standard therapy for the management of symptomatic varicose veins
 - Role of compression in advanced venous disease is well supported by the evidence
 - Clinical benefit of compression in C2 disease is substantially less clear
 - Reactive study --- 30% of patients with varicose veins will get some symptomatic relief



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What is the Evidence supporting value of surgery in Improving quality of life with C2 Disease?

Health Technol Assess. 2006 Apr;10(13):1-196, iii-iv.

Randomised clinical trial, observational study and assessment of cost-effectiveness of the treatment of varicose veins (REACTIV trial).

Michaels JA, Campbell WB, Brazier JE, Macintyre JB, Palfreyman SJ, Ratcliffe J, Rigby K.

Academic Vascular Unit, University of Sheffield, UK.

- Randomized patients with varicose veins to conservative management versus surgery
- Significantly greater improvement in symptoms and quality of life in the surgical group.
- 31% of patients did have some improvement with compression hosiery alone
- 51.6% of patients assigned to conservative management crossed over to surgical treatment by the third year of followup
- Surgery was more expensive



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C2 DISEASE WITH PHLEBITIS OR BLEEDING

The varicose vein waiting list: results of a validation exercise

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S Nicholson MD FRCS Lecturer in Surgery

- During four years of follow-up on the surgical waiting list
 - Thrombophlebitis 5.2%
 - Haemorrhage or bruising developed in only 3.2% of patients

Acute complications of varicose veins are an accepted indication for intervention

These complications are relatively uncommon

What is the medical rationale for the treatment of varicose veins?

M H Meissner

Department of Surgery, University of Washington School of Medicine, Seattle, WA, USA





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Conclusions

 Is It Cost effective to do Routine surgical treatment for C2 Disease to prevent progression?

 Likely Less Cost Effective than strategies to identify C2 patients at high risk of disease progression



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Conclusions

 Less Cost Effective than strategies to identify C2 patients at high risk of disease progression





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INSURANCE COMPANIES AND MEDICALLY NECESSARY SUPERFICIAL VENOUS DISEASE





The care of patients with varicose veins and associated chronic venous diseases: Clinical practice guidelines of the Society for Vascular Surgery and the American Venous Forum

Peter Gloviczki, MD,^a Anthony J. Comerota, MD,^b Michael C. Dalsing, MD,^c Bo G. Eklof, MD,^d

Weakly (Grade 2C) recommend moderate compression for patients with symptomatic varicose veins

Compression is not recommended as primary treatment in patients who are candidates for saphenous ablation (Grade 1B).