An anatomical drawing of a human leg, showing the muscles and tendons. The drawing is in a light gray color and is positioned vertically in the background of the slide. It shows the leg from the hip down to the foot, with various muscles and tendons labeled with small letters and numbers.

Compression after foam sclerotherapy: How I do it

B. Partsch

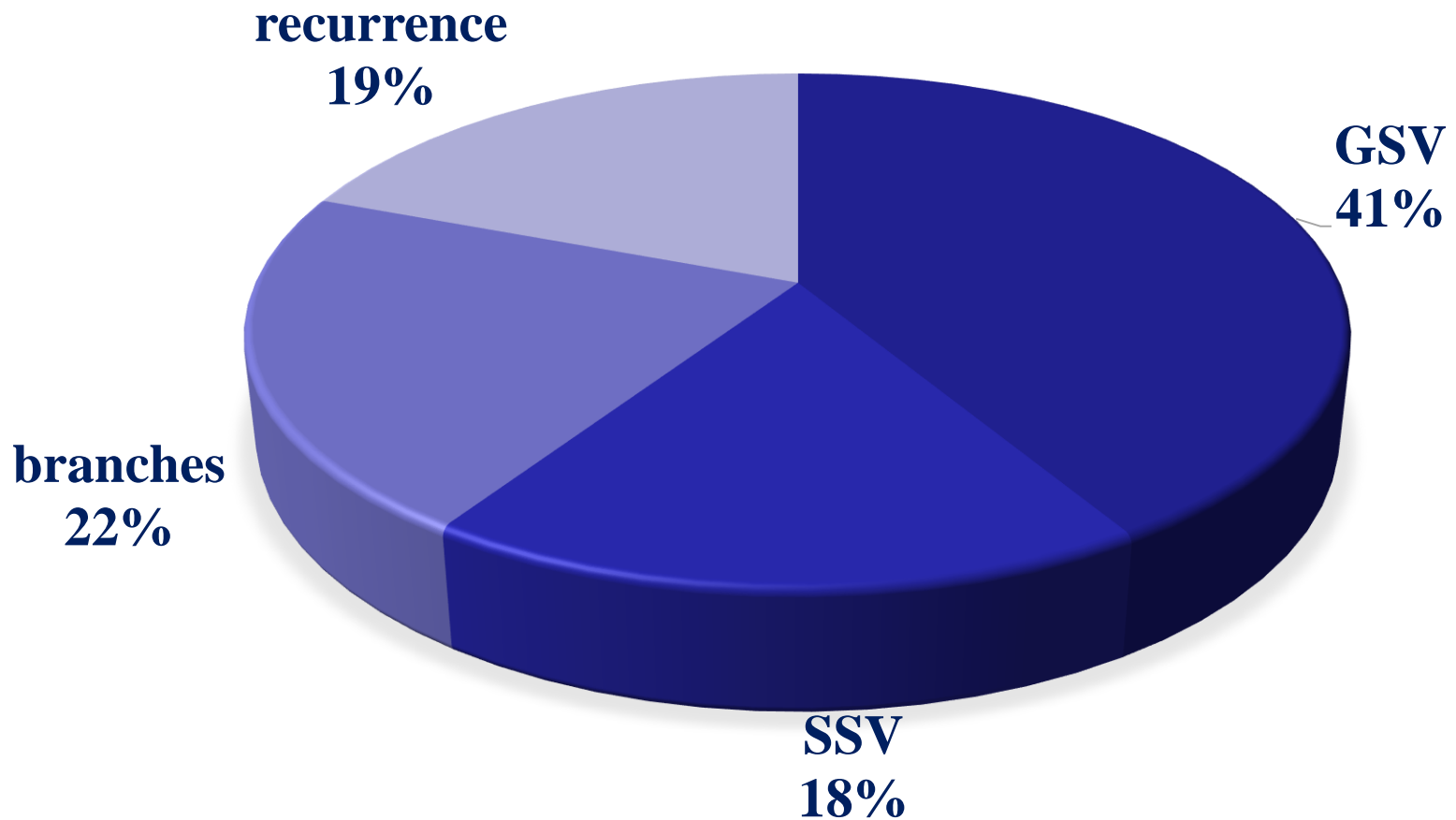
Rationale of compression after sclerotherapy

1. improving the efficacy
empty vein technique
2. decreasing side-effects
reduction of inflammation,
hyperpigmentation, thrombosis

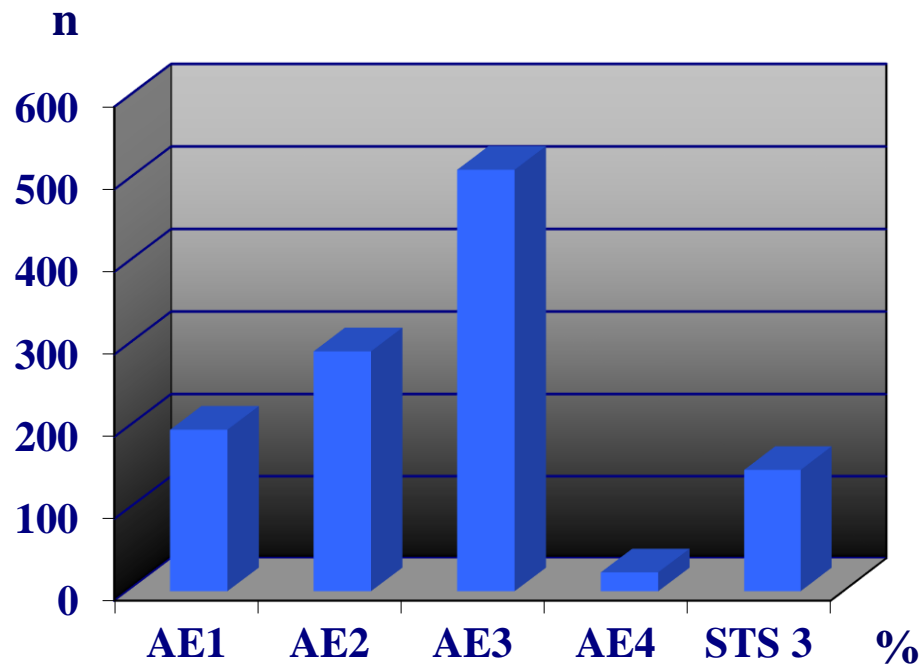
Prospective observational trial

- consecutive patients since 01.05.2009 (CO₂/O₂)
- 1174 legs (870 patients) included /
6 patients (8 legs) lost to follow up
- 715 women, 155 men
- age: 21–90 (59,13)
- diameter of varicose veins: 2–20 mm (6,1)
- 2409 sessions (2,55)

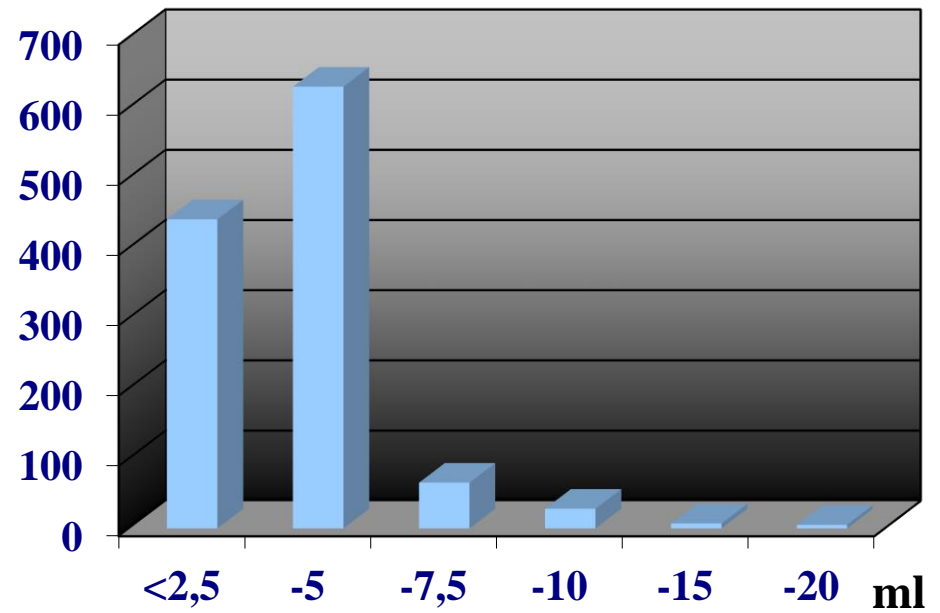
treated vein



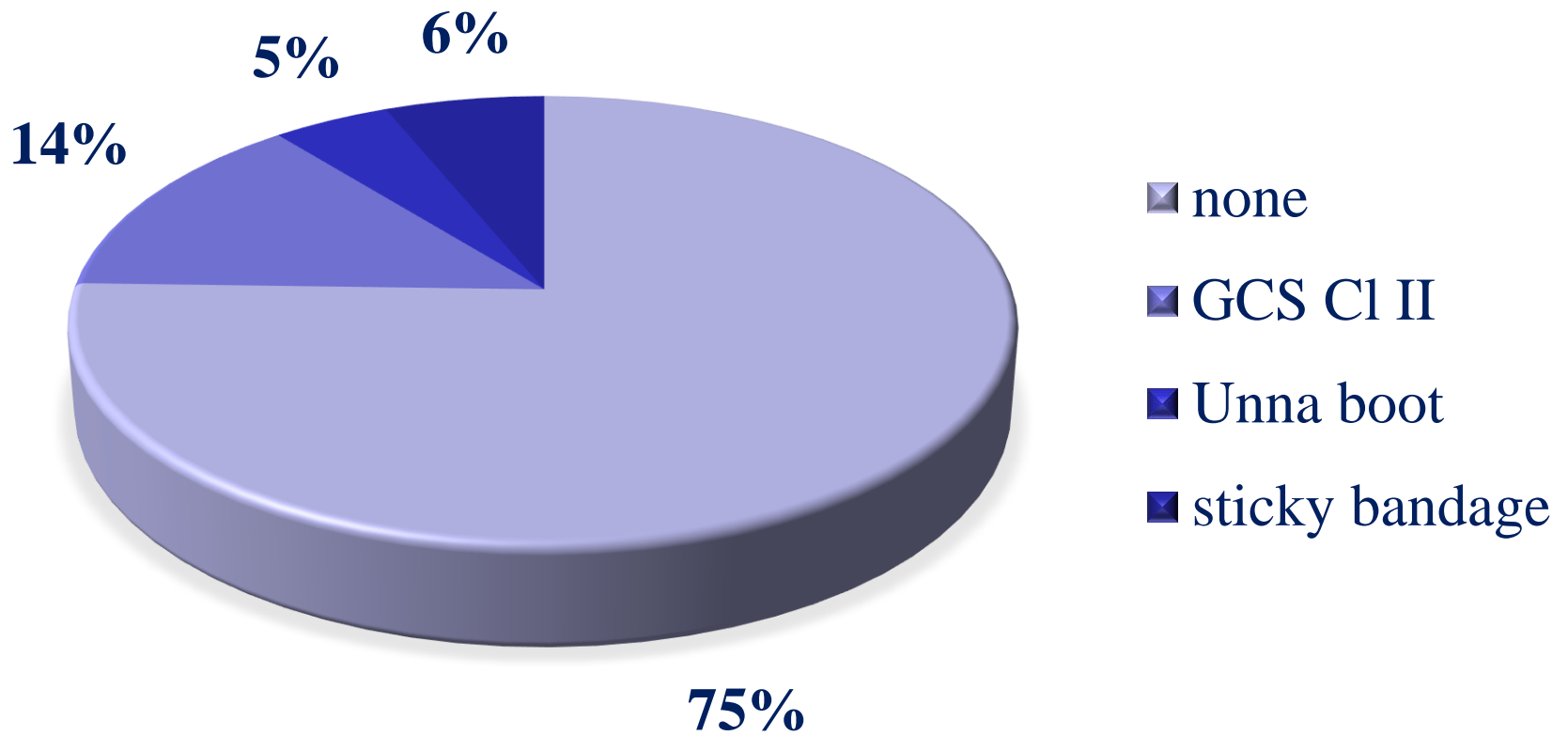
concentration



volume per session



Compression-therapy



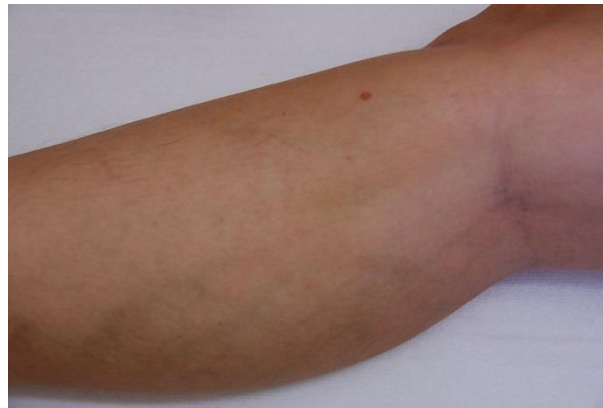
Results

- early occlusionrate
1160/1166 (99,5%)
- side-effects
(possibly influenced by compressiontherapy)
 - pigmentation
 - Thrombophlebitis/sclerosing-reaction
 - DVT

Pigmentation

- 18% (210/1160)
- 15,7% (138/879) no compression
- 25,3% (71/281) compression

- Incidence:
 - Ceulen RP: 22-28%
 - Breu FX: 21,3%



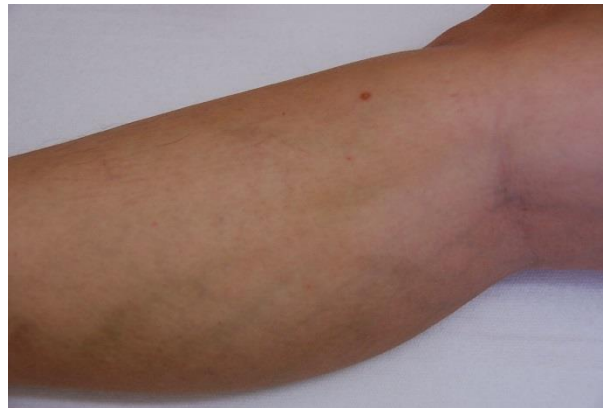
Ceulen RP et al. Derm Surg 2007;33(3):276-81

Breu FX et al. Phlebologie 2003;32(3):76-80

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Thrombophlebitis

- 25/2409 (1,03%)



Sclerosing-reaction

- 418/1160 (36,03%)



- 298/879 (33,9%) without compression
- 120/281 (42,7%) with compression

Thrombophlebitis

- Incidence:
 - Guex JJ: 0,025%
(3/12173 sess.)
 - Ceulen RP: 50%
(40/80 Pat.)



Thromboembolism

- symptomatic:
5/2409 (0,21%)
- Incidence:
 - Guex JJ: 0,024% (3/12173)
 - Myers K: 1,35% (16/1189) all asymptomatic

Guex JJ et al. Dermatol Surg 2005;31(2):123-8

Myers K. et al. Eur J Vasc Endovasc Surg 2007;33(1):116-21.

Thromboembolism

- 4 gastrocnemic vein thromboses
3 per continuitatem
- 1 PE without DVT 7 d post

- 4 after SSV sclerotherapy (407/0,98%)
- 1 after GSV sclerotherapy (1265/0,08%)

Conclusion

- for success of sclerotherapy (occlusion of varicose veins) compression is not necessary
- when using the french technique (proximal to distal) without compression, side effects are comparable to compression sclerotherapy (Fegan)

Thank you for your
attention

