Chronic Venous Insufficiency (CVI) with Ulcus Cruris

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Definition
Chronic venous insufficiency (CVI) denotes the stages of chronic venous weakness in the lower extremities. According to Widmer, the following stages are defined, which can be passed through in the course of years, particularly if left untreated: I – corona phlebectatica, ankle edema; II – trophic skin lesions, dermatitis, hyperpigmentation, dermatoliposclerosis; IIIa – healed ulcus cruris venosum; IIIb open ulcus cruris venosum. A new classification (CEAP Classification) reflects differentiated clinical, etiological, anatomical and pathophysiological characteristics of CVI. Because of its prevalence (ca. 12–15% of the population) CVI is of great socio-economic importance [Schultz-Ehrenburg et al., 1989; Marshall, 1989; Bartolo, 1992; Uber and Graf von der Schuleenburg, 1995; Franks et al., 1995; Fowkes, 1996].

Dermatological Diagnostics

Required: The following examinations are routinely performed in venous complaints: Anamnesis, clinical status (inspection, palpation), Doppler examination, digital photoplethysmography (DPPG or LRR), duplex sonography where indicated.

Optional: The following should be considered in suspect findings: Phlebography, D-dimer Test (suspected thrombosis).

Psychosomatic Diagnostics

Levels of evidence (L1–L4)
Evidence is based on at least:
L1 = one randomized controlled clinical or experimental study or one systematic review,
L2 = one non-randomized, but controlled study,
L3 = more than one non-experimental study of high methodological value,
L4 = expert opinion.

Emotional Factors in Onset and Course (L3)
Emotional factors which elicit or potentiate CVI have hardly been examined to date. However, Franks et al. [1995] found a relationship between socio-demographic variables and the healing tendency of ulcus cruris. Moreover, it can be assumed that emotional factors affect the patient’s compliance [Augustin, 1997]. This, in turn, is important for the course of CVI – especially of higher stages [Kiev et al., 1990; Weidinger, 1993; Erickson et al., 1995; Tonge, 1995].

Emotional Problems in Coping
During CVI, there may be pronounced psychosocial stress [Dieterle et al., 1996]. This applies also for early stages of CVI [Launois, 1994; Garratt et al., 1993; Franks et al., 1994]. There are also increasing economic problems, especially in ulcus cruris – depending also on the health system involved [Lindholm et al., 1993; Philips et al., 1994]. In addition to the effects of age and sex (greater stress for elderly and in women) the limitations of quality of life depend on the stage of CVI [Augustin et al., 1997; Zschocke et al., 2002]. The role of ulcus cruris as a ‘social ulcer”, which guarantees attention, care and social contacts, has been emphasized by several authors [Wise, 1986; Flett et al., 1994]. The secondary benefits of the illness can thus be considerable, but this has not yet been systematically studied.

Diagnostic Measures

Required: It has been pointed out in several studies that symptoms of CVI may be imitated by somatoforme disorders [Kuny and Blättler, 1988; Blättler et al., 1992; Blättler and Davatz, 1993]. Among these are heavy and tired legs, dysesthesias, nocturnal cramps and sensations of burning which have to be particularly considered in the diagnostic process.

Optional: Psychometric inventories (e.g. State Trait Anxiety Inventory, STAI; Symptom Checklist, SCL-90, or Hospital Anxiety and Depression Scale, HADS, with respect to psychological symptoms; Marburger-Haut-Fragebogen, MGF, with respect to disease-specific overcoming; Freiburger Fragebogen zur Krankheitsverarbeitung, FKV, for coping). The question of secondary benefit of disease should be given special attention if the patient’s compliance is obviously poor.
With respect to quality of life the following inventories may be useful: Generic questionnaires e.g. Nottingham Health Profile (NHP), SF-36 Health Survey or EuroQoL, and disease-specific questionnaires, e.g. Freiburg Life Quality Assessment (FLQA) [Augustin et al., 1997].

### Psychosomatic Therapy

**Psychosomatic Primary Care (L4)**

Strengthening of a therapeutic relationship, expansion of the causal disease model, clarification of psychosocial effects of the disease and disease-specific stress, conflict-orientated interviews.

**Indications for Psychotherapy/Psychopharmacology Relaxation (L4)**

Deep-Psychological and Analytical Procedures (L4)

No controlled studies. Application according to general criteria for these procedures.

**Behavior Therapy (L4)**

No controlled studies. Application rarely indicated.

**Hypnosis (L4)**

No controlled studies. Application rarely indicated.

**Psychopharmacology (L4)**

Possibly psychopharmacological adjuvant treatment in severe ulcer pain.

**Training Programs and Combination Therapies (L4)**

No controlled studies. An uncontrolled study by Ruane-Morris et al. [1995] indicates benefits of healed leg ulcer groups with respect to prevention of recurrence. In analogy to studies in other dermatoses (see atopic dermatitis), training may be beneficial for better compliance and for learning of preventive behavior.

**Self-Help (L4)**

No specific self-help groups known. Occasionally, ‘vein groups’ are offered in some clinics, even for outpatients.

### References