MANUAL ICC COMPRESSION QUESTIONNAIRE

Purpose of the ICC Compression Questionnaire

The purpose of the ICC compression Questionnaire is to evaluate the effect of different kinds of compression materials and systems and its acceptance and experience by the patient.

The compression questionnaire can be used for longitudinal comparative studies (not for cross-sectional studies). It should neither replace a quality of life-instrument nor a study protocol in which several outcome parameters may be specified, but should help to make patient orientated feelings with different compression modalities comparable.

Description of the questionnaire

The original language of the ICC Compression questionnaire is Dutch.

The ICC Compression Questionnaire consists of two parts. The first part has to be filled out by the health care provider (ICC-CQ-H). The second part has to be filled out by the patient (ICC-CQ-P).

The ICC Compression Questionnaire for the Health care provider consists of two subsections. The first subsection has to be filled out before the start of the study (before the first application of the compression device/ system to be tested). In this section, the health care provider describes the patient and the compression device/ system. In addition, he/ she performs an evaluation of the skin of the limb, which will be treated with the compression device/ system.

The second subsection has to be filled out by the health care provider immediately after application and at follow up visits as requested in the study protocol. The health care provider performs an **evaluation of the covering of the limb by the compression** on the one hand and an **evaluation of the skin under the compression** on the other hand. In the appendix, an overview of reliable and valid general and disease-specific quality of life questionnaires is given. It is recommended to use one or more of these questionnaires in addition to the compression questionnaire.

The ICC Compression Questionnaire for Patients consists also of two subsections. The first subsection has to be filled out before the start of the study. Firstly, the patients have to evaluate their **physical functioning** without the tested compression. This involves questions about the joint mobility, about using the limb and about the ability to perform activities. Secondly, the patients have to rate their **disease-related symptoms**. The second subsection has to be filled out by the patient at follow up visits as requested in the study protocol. First some general information is collected. Thereafter following information is collected:

- Dosage of compression
- Application and removing of compression
- Compression and comfort
- Complications related to compression
- Physical functioning in relation to compression

- Disease-related symptoms
- General experience

Processing the questionnaire and calculation of domain scores

A lot of data is collected with the ICC Compression Questionnaire.

From the health care provider questionnaire following data is obtained:

- 1) General information about the patient (date of birth, body length, body weight)
- 2) Information about the compression to be tested
- 3) Patient's history of compression
 - a. Past week
 - b. General history
- 4) (Tested) compression material (= domain)
- 5) Skin (under compression) (= domain)
- 6) Adherence (= domain)

From the patient questionnaire following data is obtained:

- 1) General information about patient (professional, sport and leisure time activities and family situation)
- 2) Dosage of compression (= domain)
- 3) Application and removing of compression (= domain)
- 4) Compression and comfort (= domain)
- 5) Complication of compression (= domain)
- 6) Physical functioning in relation to compression (= domain)
- 7) Disease-related symptoms (= domain)
- 8) General experience

The calculation of the score on each domain is demonstrated in table 1. De score on each domain ranges between 0 and 10.

Table 1. Formula for calculation of the score for each domain

Domain	Calculation score	
ICC-CQ-H		
Covering limb	= [sum of questions 2-4] / [3 – number of questions not answered]	
Skin condition	=([sum of questions $2.1 - 2.10$] / [$10 -$ number of questions not answered]) x 5	
Adherence	= score on question	
ICC-CQ-P		
Dosage of compression	= question 1 x (question 2 + question 3)	
Application and removing of compression	= ([question 1 x 2] + question 2b) + ([question 3 x 2] + question 4b) / 6	
Compression and comfort	= [sum of questions 1-6] / [6 – number of questions not answered]	
Complication of compression	= [sum of questions 1-13] / [13 – number of questions not answered]	
Physical functioning in relation to compression	= [sum of questions 1-9] / [9 – number of questions not answered]	
Disease-related symptoms	= [sum of questions 1-7] / [7 – number of questions not answered]	
General experience	= score on question	

provided excel-file (added to this document).			

To calculate the different domain scores automatically, the data can be entered in the