A tool for the staging of cachexia in cancer patients: Cachexia SCOre (CASCO)



Staging cachexia

Cachexia has been defined but the definition does not consider the problem of staging it. Classification of patients is important when considering therapy.

□ The objective of the CAchexia SCOre (CASCO) is to fulfill the existing gap in the classification of cachectic cancer patients.

Casco web page

Biochemistry and Molecular Biology of Cancer Research Group

Cachexia is defined as a state of malnutrition and physical exhaustion and includes weight loss (up to 80% of lean and fat mass) due to a chronic disease. Cachexia occurs in many diseases such as cancer, acquired immunodeficiency syndrome, sepsis, diabetes, states immobilization, severe burns, chronic obstructive pulmonary disease, cardiovascular disease or old age, among others. Several studies associate the presence of wasting in patients with a decreased ability to survive. This means that there is a growing interest in developing drugs capable of dealing with this syndrome, drugs that would allow patients to cope with this disease and possess a higher quality of life in the meantime.

Nowadays there is no effective pharmaceutical treatment on the market that can resolve cachexia. Today, patients suffering with cachexia receive treatments (that is, if they are treated; it is not a common hospital practice) based on different types of drugs, which are mainly derived from progesterone (in particular, megestrol acetate) and steroids such as testosterone, nandrolone or ostarine.

Our research aims are the following:

- a) To develop a combined therapy to stop muscle wasting associated with cancer cachexia.
- b) To develop a score to be able to stage the cachectic syndrome taking into consideration both the metabolic and functional changes that take place during cancer cachexia.

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CASCO Identification

User

Password

Login

Forgot password
Contact for access to CASCO



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Initial step

1) If the patient's weight has **DECREASED** more than **5% of his/her body weight** over the last 6 months, then go to either **CASCO** of **MiniCASCO** for the evaluation of the **degree of cachexia** of the patient. The only difference between the two is the number of items required. However, we strongly recommend --for the routine determination of the cachexia stage-- the use of **MiniCASCO** since it represents a simplified version of CASCO that correlates perfectly well with CASCO

Casco web page

Initial step

2) If the patient's weight has **NOT DECREASED** more than **5% of his/her body weight** over the last 6 months, then go to **CASC-IN** to determine if the patient is either **NON-CACHECTIC or PRE-CACHECTIC**.

Use of CASC-IN

1) If he questionnaire is assessed positively, then a message will appear on the screen:

"Plasma CRP should me measured"

Go to the next screen and introduce the CRP value. The next screen will inform you if the patient is pre-cachectic or non-cachectic.

2) If the questionnaire is assessed negatively, a message will appear.

"No further evaluation is required, the patient is **non-cachectic**"

Use of miniCASCO/CASCO

1) Follow the sequence:

- 2) Enter the different data, as requested.
- 3) After entering all the different data, press "Show Results". The score will appear on the screen. Press "Export" for a printable form of the patient's data and cachectic score.
- 4) Use the "DashBoard" tool to obtain different graphical presentations of the results.

The use of CASCO tool implies to accept the following statement

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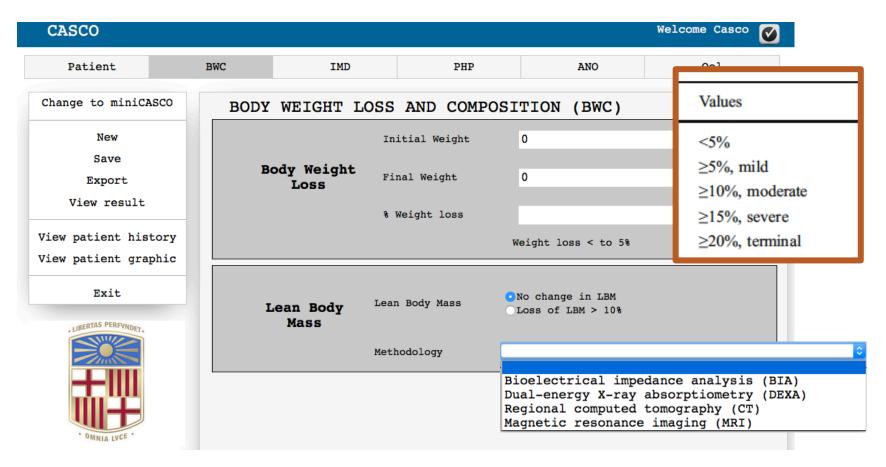
PATIENT INFORMATION

Follow the example: BRASBR20011972

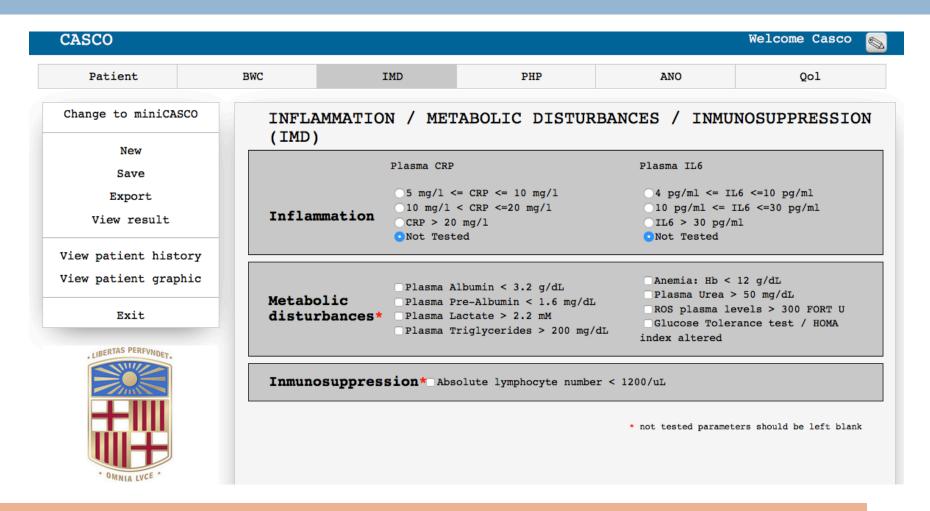
COUNTRY(3letters)first letters of name and surname birthdate (DDMMYYYY).

Patient	BWC	IMD	PHP	ANO	Qol	
Patient	ВМС	IMD	PHP	ANO	100	
Change to miniCASCO	Pati	ent informat	ion			
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Save		Date*			?	
Export			Country		<u> </u>	
View result		Birthdate				
Tiew patient history Tiew patient graphic			Gender		©	
			Cancer type		•	
			Tumour stage		©	
Exit LIBERTAS PERFUNDET. OMNIA LVCE	4	Date of	cancer diagnosis			
	41		Comorbidities			
		Uno	derlying Disease			
		Treatment (Drugs, n	utrition, other)			
	Only fo	or validation				
		re applying CASCO, what i following scale (normal, exia)				
		Ir	ndex of cachexia			

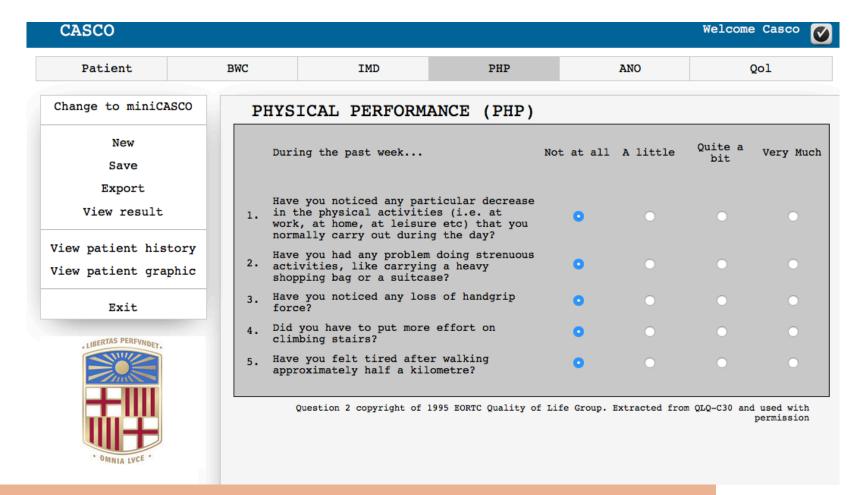
Body weight and lean body mass loss



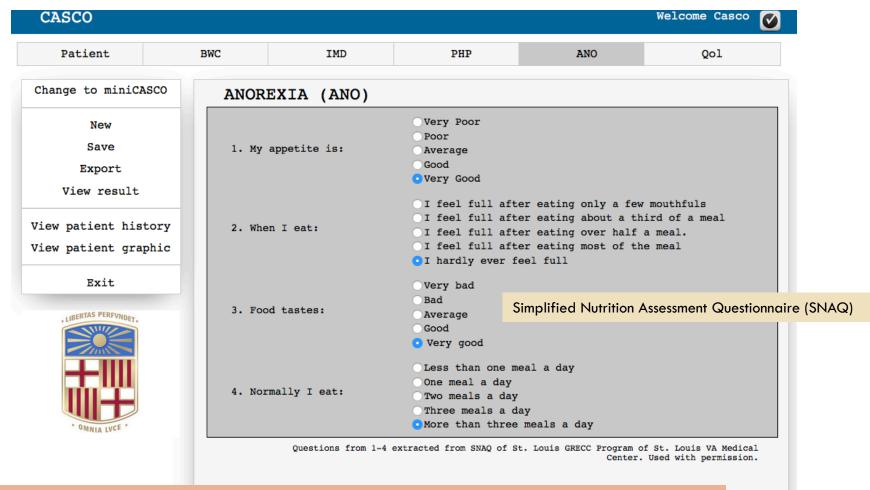
Inflammatory, immunological and metabolic disturbances



Physical performance



Anorexia



Quality of life

