



## BECAD: A TOOL FOR ASSESSING DISABILITY AND DEPENDENCE AND GUIDING REHABILITATION

#### DESCRIPTION OF THE TECHNOLOGY

BECAD consists of a series of questionnaires based on the World Health Organisation's (WHO) International Classification of Functioning, Disability and Health, which allows a person's degree of autonomy to be assessed in different areas of human functioning. It is therefore a tool for rating the autonomy of individuals with diverse levels of functionality, establishing rehabilitation goals, assessing the efficacy of their treatment and, thus, their evolution over time.

BECAD assesses most of the areas of activity:

- Learning and application of knowledge
- Movement
- General demands and tasks
- Self-care
- Interpersonal relationships
- Communication
- Handling objects

BECAD is administered and corrected automatically by accessing a website. The data are stored in a database on the server on which the website is hosted. This allows the results to be compared (for example, before and after an intervention) and scores to be updated. Graphs and reports are exported automatically. The reports can be customised with the format and content needed by the professional or the client institution.

The conventional tools available to date had a series of limitations because they either addressed a specific aspect (capacity for work) or they were very brief, which meant that they failed to cover aspects that may be targets for rehabilitation. Moreover, since they obtain information from the person involved, their validity could be limited in the case of patients with consciousness deficit.

Accordingly, there was a need for an assessment tool that allows the collection of relevant data to reduce disability, by addressing the individual functioning and the characteristics of the context, while including the points of view of both the healthcare professional and the relatives. BECAD fills this gap by providing separate objective procedures for measuring both capacity and performance.

Capacity refers to the extent to which a person can carry out the activity in question, that is, the maximum level of functioning that they can achieve in a given domain and time, without any specific adaptations or aids or obstacles. Performance indicates the extent to which the activity is carried out in the day-to-day reality of the person being evaluated. The score on performance may coincide with that of capacity but it can also be lower (when there are limitations or restrictions) or higher (if aids of some kind are used).

#### MARKET APPLICATION SECTORS

The technology is aimed at community health professionals working in the field of rehabilitation, the social integration of persons with chronic diseases and the assessment of disability. This includes rehabilitation centres and social services, as well as government agencies responsible for assessing dependence and disability and for allocating welfare benefits and community health resources.

#### TECHNICAL ADVANTAGES AND BUSINESS BENEFITS

The main advantages of this tool are:

- It allows a more objective assessment of a person's degree of functioning.
- It offers details of the characteristics and difficulties a person has in all the relevant activities of their life, in a shorter time than the currently used procedures and in a quantitative form.





# BECAD: A TOOL FOR ASSESSING DISABILITY AND DEPENDENCE AND GUIDING REHABILITATION

- It helps to measure outcomes and makes the assessment of disability and dependence easier.
- Administration and recording are both performed on-line, thereby simplifying management.
- It allows the professional to conduct a follow-up of users and to compare their status before and after the interventions.
- The system generates very versatile and immediate graphs and reports, which can be adapted to the needs of the different resources and professionals.
- It allows exportation of the indicators that are relevant to the quality management processes of each institution.

### CURRENT STATE OF DEVELOPMENT

Fully developed. The tool is being validated by means of a proof of concept project.

#### INTELLECTUAL PROPERTY RIGHTS

Registered methodology.

## **COLABORATION SOUGHT**

Joint venture agreement. Financial support

### RELATED IMAGES



## CONTACT

Hugo Cerdà Oficina de Cooperación en Investigación y Desarrollo Tecnológico (OCIT) Universitat Jaume I de Castelló Tel: +34 964387487 e-mail: patents@uji.es Web: http://patents.uji.es