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## SHORT COMMUNICATION

### Brazilian classification of physical therapy diagnosis

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#### Abstract

**Background:** The Brazilian Classification of Physical Therapy Diagnosis, developed by the Federal Council of Physiotherapy and Occupational Therapy (COFFITO), has the constitutional objectives of standardizing and exercising ethical, scientific, and social control of the Physical Therapy profession.

**Objective:** To describe the work process, rationale, and proposal for a standardization of physical therapy diagnostic concept in Brazil.

**Methods:** A working group was created to propose a standardized classification for the description and codification of physical therapy diagnoses. Some terminologies common to the International Classification of Functioning (ICF) were used to make the nomenclature of diagnoses compatible with the outcomes inherent in the field of physical therapy.

**Results:** The Brazilian Classification of Physical Therapy Diagnosis project culminated in a physical therapy diagnosis model consisting of terms grouped by organic systems and identifying

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codes. In addition, an application was developed to allow professionals to use the standardized diagnostic classification in an online system.

**Conclusion:** The diagnostic classification system is expected to advance the Physical Therapy profession allowing the identification of structural and/or functional alterations in a simplified and standardised manner. From a physical therapy perspective, this classification may help to consolidate the autonomy of the Brazilian physical therapists by establishing a clearer pathway between the diagnosis and interventions.

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## 1 Introduction

Physical therapy in Brazil has been recognized and regulated as a higher education profession since 1969 (Decree-Law 938/69, Law 6316/75, COFFITO Resolutions, Decree 9640/84, Law 8856/94).<sup>1</sup> The Federal Council of Physiotherapy and Occupational Therapy (Conselho Federal de Fisioterapia e Terapia Ocupacional - COFFITO) is a Federal Autarchy created by Law No. 6316, of December 17, 1975; with constitutional objectives of standardizing and exercising ethical, scientific, and social control of the physical therapy and occupational therapy professions.

Although the definition of the profession in Brazil makes clear the role of the physical therapists in determining a diagnosis of human movement disorders to guide the prescription and application of physical therapy procedures, there is no specific resolution offering guidance about physical therapy diagnoses through a standardized system of classification. The aim of the physical therapy diagnosis classification is to synthesize a health problem or risk of impairments from a functional perspective, to guide the definition of therapeutic objectives, and to monitor the response to interventions.<sup>2-5</sup>

Despite the International Classification of Functioning, Disability and Health (ICF) being used to describe functional outcomes,<sup>6</sup> the ICF was not developed to group the assessment tools used by physical therapists. Although efforts have been made,<sup>7-9</sup> there appears to be no standardization of the aspects that should be included in physical therapy diagnoses. A specific classification with a coding system may provide a standardized way for physical therapists to improve diagnostic accuracy and help define physical therapy objectives. Furthermore, this classification can strengthen the professional identity and autonomy, contributing to the clinical reasoning of physical therapists in clinical practice.

Given the lack of a specific classification to provide a physical therapy diagnosis in Brazil, a working group of the COFFITO was created to develop the Brazilian classification of physical therapy diagnosis. In this brief communication, we described the process, rationale, and standardization proposal of the Brazilian Classification of Physical Therapy Diagnosis. The purposes of the Brazilian Classification of Physical Therapy Diagnosis are: (1) to identify and classify the individual's kinetic-functional health condition; (2) to define the therapeutic goal and the respective physical therapy prescription; and (3) to monitor epidemiological data on the individual's clinical-functional evolution.

## Methods

The members of the working group were appointed by COFFITO based on the criteria of expertise in the different professional specialties of the organic systems included in the Brazilian Classification of Physical Therapy Diagnosis, and were from different regions of the country, with academic and clinical practice experience. Over a 5 year period, COFFITO hosted face-to-face and online meetings of the working group periodically, totalling more than 30 meetings of about 10 h, totalizing around 300 h. The determination of the variables included in the classification made by the experts was based on the main outcomes related to organic systems. The first version of the classification was published by the COFFITO, following resolution 555/2022 (Fig. 1).<sup>10</sup> Furthermore, an online application was developed to enable the use of the classification in an easy, standardized, and free manner for all physical therapists in Brazil. The Brazilian Classification of Physical Therapy Diagnosis can be accessed via the link <https://cbdf.coffito.gov.br>

Every two years, professionals will be consulted for suggestions and updates will be made as necessary by the COFFITO. The Brazilian Classification of Physical Therapy Diagnosis Commission is continuously working to disseminate the classification and to provide training to the professionals in Brazil. The development of part 2 of the classification, which includes the description of changes in patients mobility and social participation, is in progress.

## Results

In March 2022, a resolution was published by COFFITO establishing the Brazilian Classification of Physical Therapy Diagnosis. In this document, the Brazilian Classification of Physical Therapy Diagnosis based on the domains of body function and structure was detailed, with the physical therapists being able to code physical therapy diagnoses of people with good kinetic-functional health (S), to identify risks of changes in structure and/or function of the body, as well as to diagnose functional-kinetic deficiencies (D), using 10 different characterizers based on body systems, including central and peripheral nervous, musculoskeletal, respiratory, cardiovascular, integumentary, urinary, digestive, genital, and metabolic systems. The description of all variables included in each system is in Table 1.

To quantify changes in function and/or structure in the physical therapy diagnosis classification, the use of a 0–4 Likert scale was proposed. In this scale, zero (0) means a change of 0–4%, one (1) indicates a change of 5–24%, two

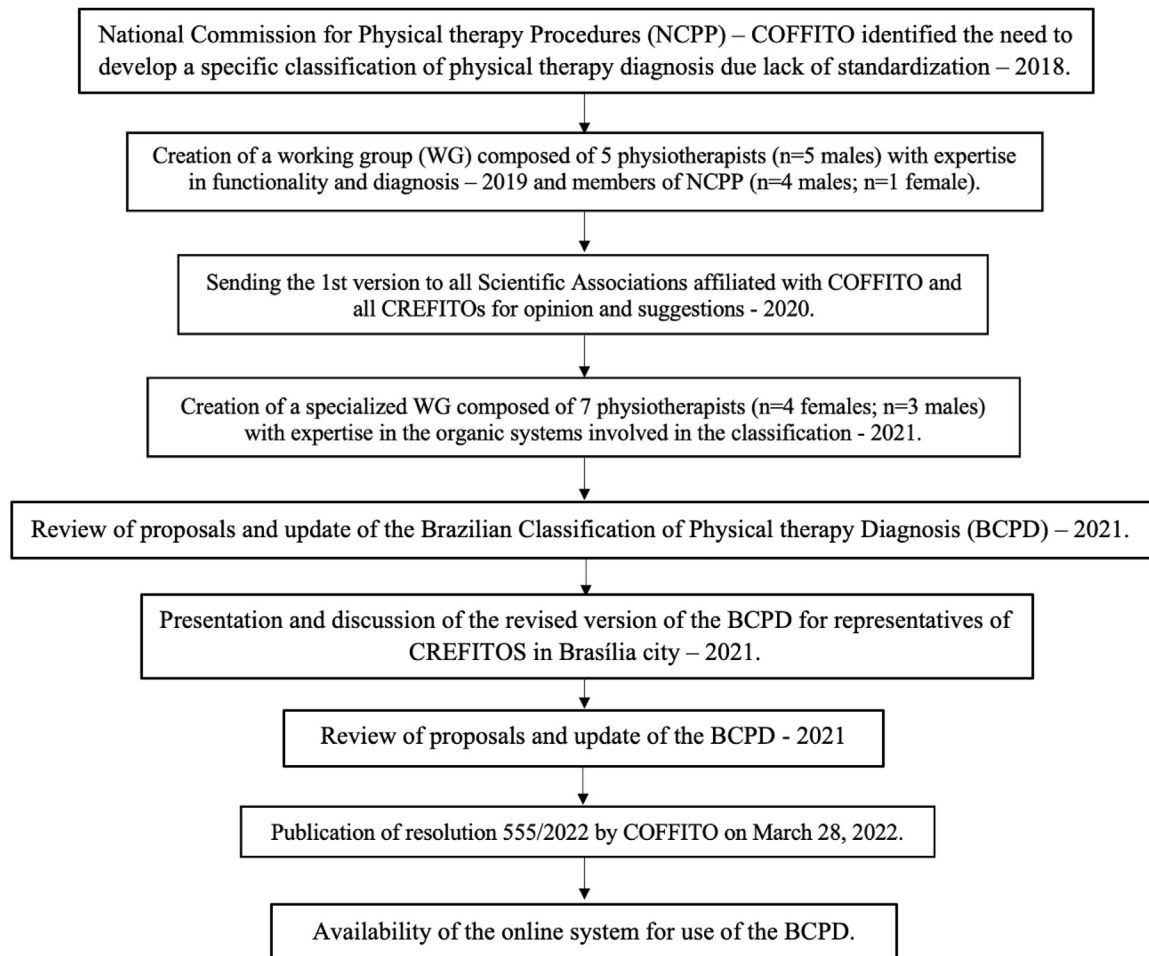


Fig. 1 Description of the process to create the Brazilian Classification of Physical Therapy Diagnosis.

96 (2) indicates a change of 25–49 %, three (3) indicates a  
 97 change of 50–95 % and four (4) indicates a change of  
 98 96–100 %. For some variables, the change is rated as dichot-  
 99 omous as zero (0) for no change and four (4) for any amount  
 100 of change. To identify the risk of physical deficiency, the  
 101 scale is also dichotomous where zero (0) means no risk and  
 102 one (1) means a risk of developing physical deficiency. The  
 103 phases of the physical therapy work process using the diag-  
 104 nosis classification are described in Fig. 2.

## 105 Discussion

106 The Brazilian Classification of Physical Therapy Diagnosis is a  
 107 milestone in the history of physical therapy as it fills an  
 108 existing gap in our profession, by providing an important  
 109 contribution to defining the physical therapy scope of  
 110 action, through the description of our outcomes of interest,  
 111 which are related to our professional specialties and norma-  
 112 tive documents. This will help the health system, as well as  
 113 society, to understand the unique role of the physical ther-  
 114 apist as a first-contact health professional in primary care, a  
 115 specialist in human movement working in various specialties  
 116 with full autonomy to conduct clinical assessment using

specific outcome measures. This would allow the prescrip- 117  
 118 tion of treatment based on a unique physical therapy  
 119 diagnosis.<sup>2–5,10</sup>

Another relevant point is that the Brazilian Classification 120  
 121 of Physical Therapy Diagnosis has the potential to guide clin-  
 122 ical decision-making. The use of this classification tool with  
 123 validated and reliable diagnostic assessment tools may  
 124 improve the delivery of care by physical therapists in differ-  
 125 ent healthcare settings.

This diagnostic classification has the potential to expand 126  
 127 stakeholder views beyond the biomedical model, increasing  
 128 the understanding that the individual is much more than a  
 129 disease or change in health condition. It may expand the  
 130 care provided based on the ability to perform human move-  
 131 ment, from the most basic tasks to those of greater com-  
 132 plexity, such as sports, work and leisure.<sup>2,5</sup> This is also  
 133 related to the principle of integrality in health that is part of  
 134 the Brazilian unified health system, which describes that  
 135 care must be integral to the individual. Future research  
 136 related to its validation, reliability, and adherence of the  
 137 physical therapist to the classification, as well as the identi-  
 138 fication of the barriers and facilitators for using the classifi-  
 139 cation should be conducted in the future by researchers of  
 140 different physical therapy specialties.

**Table 1** Description of the structure of the chapters of the Kinetic-Functional Classification related to body structure and function, specifying each system involved and the status and variables measured.

## Structure of Kinetic-Functional Health chapters (H)

Organic system	Risk status	Variables
Kinetic-Functional Neurop- ipheral Health (H01)	With or without risk of neurop- eripheral kinetic-functional deficiency	Autonomic function; Strength; Sensory func- tions <sup>I</sup> ; Structure(segment). <sup>I</sup> Increased tactile and/or proprioceptive sensi- tivity; reduced tactile and/or proprioceptive sensitivity; increased thermal sensitivity; reduced thermal sensitivity; increased pain sensitivity; reduced pain sensitivity; change in vestibular function; change in visuospatial function.
Kinetic-Functional Neuro- central Health (H02)	With or without risk of neurocentral kinetic-functional deficiency	Mental functions <sup>II</sup> ; Movement control <sup>III</sup> ; Strength; Structure(segment). <sup>II</sup> Alteration of consciousness; cognitive alter- ation; <sup>III</sup> Change in range of motion; change in motor coordination; change in postural con- trol; change in balance; presence of involun- tary movements.
Kinetic-Functional Musculo- skeletal Health (H03)	With or without risk of musculoskeletal kinetic-functional deficiency	Pain; Joint mobility; Strength; Structure(seg- ment).
Kinetic-Functional Respira- tory Health (H04)	With or without risk of respiratory kinetic- functional deficiency	Oxygenation <sup>IV</sup> ; Respiratory discomfort <sup>IV</sup> ; Lung expansion volume <sup>V</sup> ; Respiratory muscle strength <sup>VI</sup> . <sup>IV</sup> rest; effort; sleep; <sup>V</sup> Recruitable component; non-recruitable component; <sup>VI</sup> Inspiratory; expi- ratory; inspiratory and expiratory.
Kinetic-Functional Cardio- vascular Health (H05)	With or without risk of cardiovascular kinetic-functional deficiency	Aerobic capacity <sup>VII</sup> ; Functions of vessels <sup>VIII</sup> ; fatigability <sup>IX</sup> ; Heart rate <sup>X</sup> . <sup>VII</sup> Slight reduction; moderate reduction; severe reduction; <sup>VIII</sup> Arterial(mild, moderate, severe); Venous (mild, moderate, severe); lymphatic; <sup>IX</sup> Rest; effort; <sup>X</sup> Without medica- tion; with medication.
Kinetic-Functional Integu- mentary Health (H06)	With or without risk of integumentary kinetic-functional deficiency	Sensory functions; Joint mobility; Pain; Struc- ture(segment).
Kinetic-Functional Urinary Health (H07)	With or without risk of urinary kinetic-func- tional deficiency	Bladder functions; Pelvic floor muscle func- tion <sup>XI</sup> ; Sensations associated with urinary func- tions <sup>XII</sup> ; Urinary continence <sup>XIII</sup> . <sup>XI</sup> Alteration of strength; coordination change; relaxation change; resistance change; tonus change; absence of contraction; association of more than one; <sup>XII</sup> Increased feeling of bladder filling; decreased sensation of bladder filling; absence of fullness and desire to urinate; pain and burning urination; sensation of incomplete emptying of urine; <sup>XIII</sup> Alteration of effort, alteration of urgency, alteration of effort and urgency; other types of change.
Kinetic-Functional Genital Health (H08)	With or without risk of genital kinetic-func- tional deficiency	Sexual functions <sup>XIV</sup> ; Pelvic floor muscle func- tion <sup>XI</sup> ; Pain; Functions associated with men- struation or post-menopause <sup>XV</sup> . <sup>XIV</sup> Desire phase; excitation phase; orgasmic phase; resolution phase; more than one change; <sup>XV</sup> Menarch; menacme; climacteric; post-menopause / vasomotor alteration.
Kinetic-Functional Digestive Health (H09)	With or without risk of digestive kinetic- functional deficiency	Defecation functions – fecal or anal continen- ce <sup>XVI</sup> ; Pelvic floor muscle function; Pain; Fecal elimination functions <sup>XVII</sup> . <sup>XVI</sup> Alteration of effort, alteration of urgency, alteration of effort and urgency; flatus incontinence; other types of change. <sup>XVII</sup> Constipation; diarrhea; change in fecal con- sistency; change in defecation frequency and fecal consistency; need to use manual or other maneuvers; association of more than one.}
Kinetic-Functional Metabolic Health (H10)	With or without risk of metabolic kinetic- functional deficiency	Aerobic capacity <sup>VII</sup> ; Body mass; Body fat; Over- all muscle mass.

Table 1 (Continued)

Structure of Kinetic-Functional Health chapters (H)		
Organic system	Risk status	Variables
Structure of the Kinetic-Functional Deficiencies chapters (D)		
Organic system	Functional and/or structural status	Variables
Neuroperipheral Kinetic-Functional Deficiency (D01)	Eutonic; Hypotonic.	Autonomic function; Strength; Sensory functions <sup>I</sup> ; Structure(segment). <i><sup>I</sup>Increased tactile and/or proprioceptive sensitivity; reduced tactile and/or proprioceptive sensitivity; increased thermal sensitivity; reduced thermal sensitivity; increased pain sensitivity; reduced pain sensitivity; change in vestibular function; change in visuospatial function.</i>
Neurocentral Kinetic-Functional Deficiency (D02)	Eutonic; Hypotonic; Elastic hypertonic; Plastic hypertonic; Floating.	Mental functions <sup>II</sup> ; Movement control <sup>III</sup> ; Strength; Structure(segment). <i><sup>II</sup>Altered level of consciousness; cognitive alteration; <sup>III</sup>Change in range of motion; change in motor coordination; change in postural control; change in balance; presence of involuntary movements.</i>
Musculoskeletal Kinetic-Functional Deficiency (D03)	No structural damage; With acute structure injury; With chronic injury structure.	Pain; Joint mobility; Strength; Structure(segment).
Respiratory Kinetic-Functional Deficiency (D04)	Obstructive of the upper airways and/or proximal lower airways <sup>XVII</sup> ; Obstruction of the middle-distal lower airways <sup>XVII</sup> ; Restrictive; Low elastance; Neuromuscular; Not specified. <i><sup>XVII</sup>Airway secretion component; component is not secretion in airways.</i>	Oxygenation <sup>IV</sup> ; Respiratory discomfort <sup>IV</sup> ; Lung expansion volume <sup>V</sup> ; Respiratory muscle strength <sup>VI</sup> . <i><sup>IV</sup>rest; effort; sleep; <sup>V</sup>Recruitable component; non-recruitable component; <sup>VI</sup>Inspiratory; expiratory; inspiratory and expiratory.</i>
Cardiovascular Kinetic-Functional Deficiency (D05)	No structural change; With structural change.	Aerobic capacity <sup>VII</sup> ; Functions of vessels <sup>VIII</sup> ; fatigability <sup>IX</sup> ; Heart rate <sup>X</sup> . <i><sup>VII</sup>Slight reduction; moderate reduction; severe reduction; <sup>VIII</sup>Arterial(mild, moderate, severe); Venous (mild, moderate, severe); lymphatic; <sup>IX</sup>Rest; effort; <sup>X</sup>Without medication; with medication.</i>
Integumentary Kinetic-Functional Deficiency (D06)	No edema; With acute edema <sup>XVIII</sup> ; With chronic edema <sup>XVIII</sup> . <i><sup>XVIII</sup>Without integrity rupture and without pigmentation alteration; Without rupture of integrity and with alteration of pigmentation; With integrity rupture and without pigmentation alteration; With rupture of integrity and with alteration of pigmentation.</i>	Sensory functions; Joint mobility; Pain; Structure(segment).
Urinary Kinetic-Functional Deficiency (D07)	Storage <sup>XIX</sup> ; Emptying <sup>XX</sup> ; Not specified. <i><sup>XIX</sup>Without urgency; Urgently; <sup>XX</sup>Hesitation; Flow change; Need for effort/urinary retention.</i>	Bladder functions; Pelvic floor muscle function <sup>XI</sup> ; Sensations associated with urinary functions <sup>XII</sup> ; Urinary continence <sup>XIII</sup> . <i><sup>XI</sup>Alteration of strength; coordination change; relaxation change; resistance change; tonus change; absence of contraction; association of more than one; <sup>XII</sup>Increased feeling of bladder filling; decreased sensation of bladder filling; absence of fullness and desire to urinate; pain and burning urination; sensation of incomplete emptying of urine; <sup>XIII</sup>Alteration of effort, alteration of urgency, alteration of effort and urgency; other types of change.</i>
Genital Kinetic-Functional Deficiency (D08)	No structural change; With structural change <sup>XXI</sup> . <i><sup>XXI</sup>Mild pelvic organ prolapse; Moderate pelvic organ prolapse; Severe pelvic organ prolapse; Complete pelvic organ prolapse</i>	Sexual functions <sup>XIV</sup> ; Pelvic floor muscle function <sup>XI</sup> ; Pain; Functions associated with menstruation or post-menopause <sup>XV</sup> . <i><sup>XIV</sup>Desire phase; excitation phase; orgasmic phase; resolution phase; more than one change; <sup>XV</sup>Menarch; menacme; climacteric; post-menopause/vasomotor alteration.</i>

Table 1 (Continued)

Structure of Kinetic-Functional Health chapters (H)

Organic system	Risk status	Variables
Digestive Kinetic-Functional Deficiency (D09)	No structural change; With structural change.	Defecation functions – fecal or anal continence; Pelvic floor muscle function; Pain; Fecal elimination functions <sup>XVI</sup> . <sup>XVI</sup> Alteration of effort, alteration of urgency, alteration of effort and urgency;flatus incontinence; other types of change. <sup>XVII</sup> Constipation; diarrhea; change in fecal consistency; change in defecation frequency and fecal consistency; need to use manual or other maneuvers; association of more than one.
Metabolic Kinetic-Functional Deficiency (D10)	No metabolic dysfunction; With metabolic dysfunction.	Aerobic capacity <sup>VII</sup> ; Body mass; Body fat; Overall muscle mass.

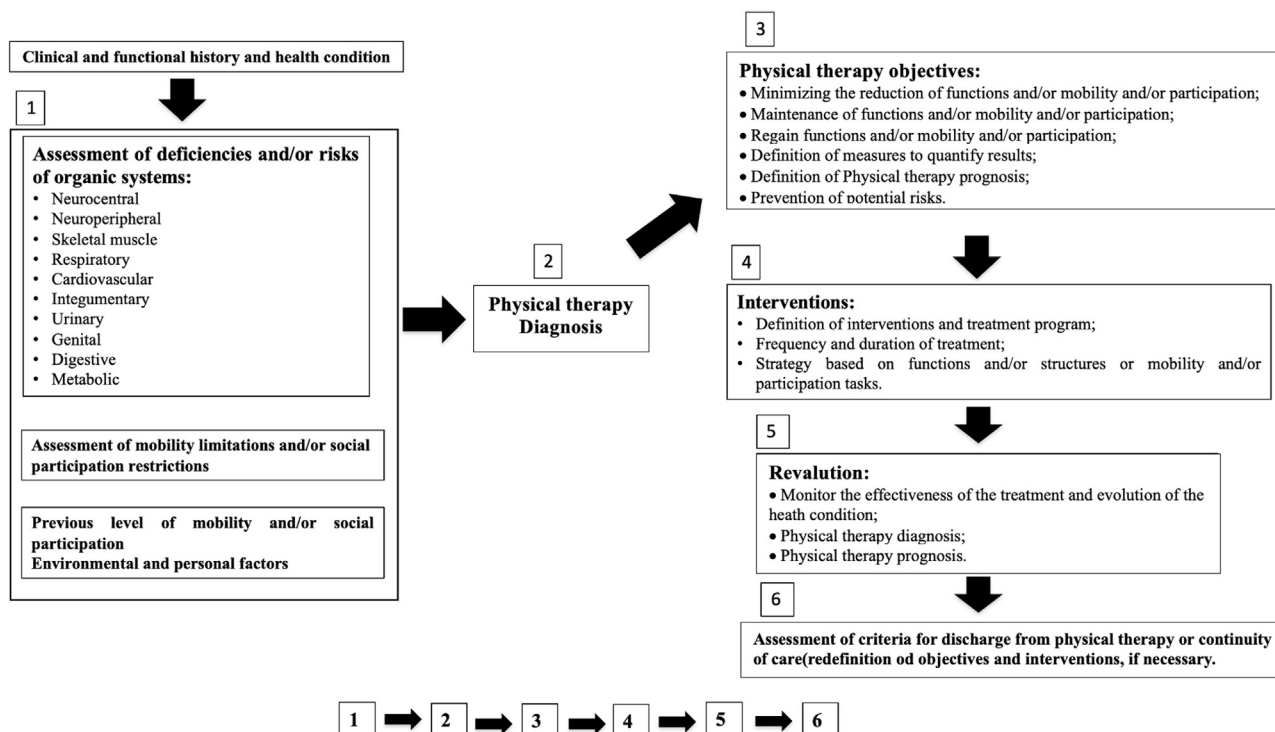


Fig. 2 Phases of the physical therapy diagnostic concept work process using the Brazilian Classification of Physical Therapy Diagnosis.

141 **Conclusion**

142 The Brazilian Classification of Physical Therapy Diagnosis  
143 system is an important advance for the physical therapy  
144 profession in Brazil, allowing physical therapists to identify  
145 structural and/or functional alterations in a simplified and  
146 standartised way. This classification may help to consolidate  
147 the autonomy of Brazilian physical therapists by establishing  
148 a clearer pathway between the diagnosis and interventions.  
149

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**Conflicts of interest**

The authors declare that they have no conflicts of interest.

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