

# JPR

Journal of  
Physiotherapy  
Research

V9 N2 MAY 2019  
ISSN: 2238-2704



Journals  
**BAHIANA**  
SCHOOL OF MEDICINE AND PUBLIC HEALTH

Catalog Card

N963 Journal of Physiotherapy Research [electronic resource] /  
Scientific Communications Unit of BAHIANA – School of Medicine and  
Public Health, 2019; 9(2). Salvador: BAHIANA – School of Medicine and  
Public Health, 2019. [On-line].

Quarterly

Editorial  
ISSN 2238-2704

Access Mode: <https://journals.bahiana.edu.br/>

1. Research. 2. Physiotherapy I. Scientific Communications Unit. II.  
BAHIANA – School of Medicine and Public Health. III. Title: Journal of  
Physiotherapy Research.

CDU: 615.82

# Masthead

**Journal of Physiotherapy Research. 2019;9(2)**

## **Editorial Board**

### **Editors-in-chief**

Cristiane Maria Carvalho Costa Dias, BAHIANA - School of Medicine and Public Health (Salvador), Brazil  
Katia Nunes Sá, BAHIANA - School of Medicine and Public Health (Salvador), Brazil

### **Basic Research Editors**

Ana Francisca Ferreira, Catholic University of Salvador (Salvador), Brazil  
Wilton Remigio, Misericordia University (Dallas), United States of America

### **Public Health Editors**

Helena Fraga-Maia, State University of Bahia (Salvador), Brazil  
Katia Suely Queiróz Silva Ribeiro, Federal University of Paraíba (João Pessoa), Brazil

### **Neuropediatric Physiotherapy Editors**

Asir John Samuel, Maharishi Markandeshwar University (Mullana), India  
Hercules Ribeiro Leite, Universidade Federal dos Vales do Jequitinhonha e Mucuri (Teófilo Otoni), Brazil  
Sumaia Midlej, State University of Bahia (Salvador), Brazil

### **Physiotherapy in Pain Management Editors**

Abrahão Fontes Baptista, Federal University of the ABC (Santo André), Brazil  
Joyce Gomes-Osman, University of Miami (Coral Gables), United States of America

### **Sports Physiotherapy Editors**

Ardalan Shariat, University Putra Malaysia (Serdang), Malaysia  
Mehdi Kargarfard, Universidade de Isfahan (Isfahan), Iran  
Ulysses Fernandes Ervilha, State University of São Paulo (São Paulo), Brazil

### **Orthopedic Trauma Physiotherapy Editors**

Beatriz Rodríguez-Romero, The Coruña University (Coruña), Spain  
Clarice Tanaka, Universidade de São Paulo (São Paulo), Brazil

### **Neurofunctional Approach in Adults Editors**

Elen Beatriz Carneiro Pinto, BAHIANA - School of Medicine and Public Health (Salvador), State University of Bahia (Salvador), Brazil  
Jamilé Vivas Costa, The Coruña University (Coruña), Spain  
Valeska Fabiola Gatica Rojas, Talca University (Talca), Chile

### **Gerontology Physiotherapy Editors**

Clynton Lourenço Correa, Federal University of Rio de Janeiro (Rio de Janeiro), Brazil  
Victor Hugo Bastos, Federal University of Piauí (Parnaíba), Brazil

### **Respiratory Physiotherapy Editor**

Fernanda Warken Rosa Camelier, State University of Bahia (Salvador), Brazil

### **Cardiovascular Physiotherapy Editor**

Giulliano Gardenghi, Center for Advanced Studies and Integrated Training (Goiânia), Pontifical Catholic University of Goiás (Goiânia), Encore Hospital (Aparecida de Goiânia), Brazil  
Maria Ignes Zanetti Feltrim, Instituto do Coração do Hospital das Clínicas, Universidade de São Paulo (São Paulo), Brazil

### **Dermatofunctional Physiotherapy Editors**

Carina Oliveira dos Santos, BAHIANA - School of Medicine and Public Health (Salvador), State University of Bahia (Salvador), Brazil  
Patricia Froes Meyer, Universidade Potiguar (Natal), Brazil

### **Physiotherapy in Occupational Health Editor**

Maria Cláudia Gatto Cardia, Federal University of Paraíba (João Pessoa), Brazil

### **Physiotherapy in Acupuncture Editor**

Rafael Vercelino, Health Sciences Federal University of Porto Alegre (Porto Alegre), Brazil

### **Pelvic Floor Physiotherapy Editors**

Adriana Saraiva, Federal University of Bahia (Salvador), Brazil  
Patricia Lordêlo, BAHIANA - School of Medicine and Public Health (Salvador), Brazil

### **Executive Editor**

João de Deus Barreto Segundo, BAHIANA - School of Medicine and Public Health (Salvador), Federal University of Bahia, Brazil

### **Copydesk Editor / Art Director**

Edileno Capistrano, BAHIANA - School of Medicine and Public Health (Salvador), Brazil

The Journal of Physiotherapy Research (JPR) is an Open Access Journal published to serve the international scientific community by providing high quality scientifically accurate original research reports, therefore it applies no article processing charge of any kind.

It is assumed that by submitting an article, the author is recognized as having the copyright to it and allows its free use by readers, and it can, in addition to being read, be downloaded, copied, distributed and printed.

The authors are responsible for content, spelling, grammar and punctuation.

### **Corresponding address:**

BAHIANA - School of Medicine and Public Health  
Scientific Communications Unit - SCU  
Dom João VI Av., 275, Brotas  
ZIP Code: 40290-000  
(55 71) 3276-8246

This publication is sponsored by



**BAHIANA**  
ESCOLA DE MEDICINA E SAÚDE PÚBLICA

# Table of Contents

## Editorial

<b>Perspectives on Physical Therapy in Mental Health.....</b>	<b>155</b>
Juliana Barbosa Goulardins, Janette Zamudio Canales, Carla Oda	

## Original Articles

<b>Association of physical performance in the Timed Up and Go test with self-report of falls in hospitalized elderly.....</b>	<b>159</b>
Bruno Prata Martinez, Wende Bonifacio Lopes, Giovani Assunção de Azevedo Alves, Luiz Alberto Forgiarini Júnior, Fernanda Warken Rosa Camelier, Aquiles Assunção Camelier	

<b>Effects of therapeutic ultrasound in mammary engagement: pilot study.....</b>	<b>166</b>
Fabiana Oliveira dos Santos, Jaimilene Moreira Fernandes, João Lucas Rodrigues dos Santos, Mariana Rocha Alves, Magda Mendes Vieira, Vinicius Dias Rodrigues	

<b>Application of transcutaneous nervous electric stimulation in individuals with temporomandibular dysfunction: randomized clinical trial.....</b>	<b>174</b>
Larissa Aparecida Canossa, Nadia Caroline Schons, Patricia Nadal, Márcia Rosângela Buzanello Azevedo, Gladson Ricardo Flor Bertolini	

<b>Pilot study of viability in the use of cycle ergometer for upper limbs in the immediate postoperative period of cardiac surgery.....</b>	<b>179</b>
Giulliano Gardenghi, Celina Lumi Kushida, Abissay Francisco Dias, Jessyka Bueno Cruz, Kassily Ribeiro de Lima, Artur Henrique de Souza	

<b>Correlation between functionality and pulmonary function in injured patients in Intensive Therapy Units.....</b>	<b>187</b>
Gilmar Oliveira Santos, Ludmilla Campos Gaspar, Yasmin Silva Gomes, Jorge Luis Motta dos Anjos, Giovani Assunção de Azevedo Alves, Janilson Matos Teixeira Matos	

<b>Rapid upper limb assessment (RULA): validity and reliability evidences in identifying workplace ergonomics among bank employee's using computers.....</b>	<b>194</b>
Ajay Kumar, Surendra Kamath	

<b>Profile of the periods of the physiotherapy course of a higher education institution: observational study.....</b>	<b>204</b>
Maria Claudilene de Andrade Ramos, Janaina de Moraes Silva, Tassiane Maria Alves Pereira, Osmar Ferreira da Silva Filho, Silmar Teixeira, Marco Orsini, Marco Antônio Araújo Leite, Viviane Marques, Victor Hugo do Vale Bastos	

<b>Sociodemographic and clinical profile of asthma and allergic rhinitis cases at the Children's State Hospital, Feira de Santana - BA.....</b>	<b>211</b>
Suzana Ferreira Magalhães Gadéa, Roquenei da Purificação Rodrigues, Menilde Araújo Silva Bião	

<b>Humanization in academic education: perception of physiotherapy student.....</b>	<b>219</b>
Karoline Batista, Erika Pedreira, Verena Galvão, Silvana Monteiro	

<b>Effects of a functional training program in the activities of daily life and functional capacity of elderly persons of UATI: a clinical test.....</b>	<b>227</b>
Daiana Gonçalves Galvão, Luis Vicente Franco de Oliveira, Glauber Sá Brandão	

<b>Georeferencing and public policies for access to physical therapy in primary care in Parnaíba-PI.....</b>	<b>237</b>
Kaylson Siva Reis, Polyanna Gomes Lacerda Cavalcante, Darah Félix Aguiar, Francisco das Chagas Vieira Santos, Fuad Ahmad Hazime	

<b>Expression of pain after physiotherapy care in premature newborns: observational study.....</b>	<b>243</b>
Marimar Goretti Andreazza, Evellin Oliveira Gomes, Arlete Ana Motter, Monica Lima Cat, Regina Paula Guimarães Vieira Cavalcante	

## **Literature reviews**

- Effects of continuous positive pressure and of two levels on the airline in acute cardiogenic lung edema: a systematic review..... 250**  
Fernanda Cardoso Brito, Bruno Prata Martinez, Mansueto Gomes Neto, Micheli Bernadone Saquetto, Cristiano Sena Conceição, Cássio Magalhães Silva e Silva
- Efficacy of acupuncture in the management of fatigue related to breast cancer antineoplastic treatment: a systematic review..... 264**  
Ana Carolina Moraes Costa, Alena Peixoto Medrado
- Non-invasive neuromodulation in children with Neurogenic Bladder: an integrative review..... 273**  
Tatielle Andrade Pereira, Natália Maria Barbosa Bezerra, Gentil Gomes Fonseca Filho, Luana Cecilia Farache Lemos Leal, Lilian Lira Lisboa
- Early multiprofessional stimulation in children with defensing in neuropsychomotor development: integrative review..... 284**  
Lizandra Tereza de Souza Vasconcelos, Maria Erisnilda Nunes Irineu, Jefferson Nascimento Dos Santos, Thais Silva Frota Cavalcante Modesto