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## Información relevante

### **B. RESUMEN**

Es licenciado en Fisioterapia por la Universidad Estatal de Londrina (1999), especialización (2002), Máster (2003) y Doctorado (2005) en Neurociencias Universidad Autónoma de Barcelona / Hospital de la Santa Creu i Sant Pau financiado con la Beca de Doctorado Completo de CNPq (2001-2005). Se especializa en Kinesithérapie Respiratoire et Cardiovasculaire por L'Université Paris Descartes (2004). Realizó una pasantía senior en 2011 y 2014 con beca del Ministerio de Ciência y Tecnologia (CNPq) y Ministerio de la Educación (CAPES) en el Laboratório di Technologie Biomediche del Politecnico di Milano en Italia. Trabajó como estudiante nacional postdoctoral en CAPES en el Laboratorio de Fisioterapia Cardiopulmonar, Departamento de Fisioterapia de la Universidad Federal de Pernambuco (UFPE) y como investigador en el Laboratorio de Evaluación e Investigación del Desempeño Cardiorrespiratorio (LabCare) en la Escuela de Educación Física, Fisioterapia y Terapia Ocupacional (EEFFTO) de la Universidad Federal y Minas Gerais (UFMG). Profesor Asociado III del Departamento de Fisioterapia de la UFRN. Investigador del programa de posgrado en Fisioterapia y coordinador del nucleader en la UFRN de la Red de Biotecnología del Nordeste - RENORBIO - Doctorado en Biotecnología. PneumoCardioVascular Coordinador de Laboratorio Hospital Universitario Onofre Lopes - EBSEH y Departamento de Fisioterapia e investigador en el Laboratorio de Innovación Tecnológica en el Campus de Rehabilitación de la UFRN. Coordinador de Investigación Avanzada e Innovación Tecnológica en Salud - NAPS - HUOL / EBSEH-UFRN. En los 12 años que trabajó como profesor / investigador en la UFRN, supervisó 14 TCC, 20 CI, 21 maestrías, 7 doctorados y 4 postdoctorados. Ha publicado más de 80 artículos en revistas especializadas nacionales e internacionales en las áreas de Fisiología Respiratoria, Fisioterapia Respiratoria, y Evaluación de Tecnología Cardiovascular, Rehabilitación, Neumología y Salud - Revisiones sistemáticas. Es miembro y colaborador permanente de la Colaboración Cochrane. Coordinador del Curso de especialización en Fisioterapia Cardiorrespiratoria en la UFRN desde 2010. Becario del Ministerio de Ciencia y tecnología para investigación (CNPq) desde 2010. Consultor ad-hoc para agencias de financiación / universidades: CNPq, CAPES, FUNCAP, FACEPE, Prinses Beatrix Spierfonds - Países Bajos, UFRN, UFPR, UFG, UFCSPA, UFMT y DECIT- Ministerio de Salud. Colabora con diferentes instituciones de Brasil UFMG, UFPE, UFPR, UNINOVE y UFSCar e internacionales: Politécnica de Milán, Universidad de Toronto, Universidad de Chile y Universidad Autónoma de Chile. Recibió diferentes premios internacionales (Sociedad Respiratoria Europea, Asociación Latinoamericana del Tórax) en reconocimiento al mérito científico. Actúa en el área de Fisioterapia Respiratoria, Fisiología y Mecánica Respiratoria, Innovación Tecnológica en Rehabilitación y Evaluación de Tecnología de Salud. Actuó como "Profesor Visitante en Rehabilitación Dirigido al Rendimiento Muscular (RAMP) - Departamento de Fisioterapia - Universidad de Toronto "Canadá entre 2018 y 2019.

## C. Laboral

Local de trabajo PneumoCardioVascular Lab - Universidade Federal do Rio Grande do Norte  
Departamento de Fisioterapia - Campus da UFRN Lagoa Nova, Natal, Rio Grande do Norte, Brasil, 59078-970, **Professor Associado III**

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## 1. EDUCATION

### Degrees

2003– 2005 PhD, Neuroscience, Physiology Department, Universidad Autonoma de Barcelona, Barcelona, Catalunya, Spain - Supervisor(s): Pere Casan i Clara

2002 - 2004 Specialization kinésithérapie respiratoire et cardio-vasculaire. Université René Descartes - Paris V, URD - Paris V, France  
Supervisor: Mercedes Sangenis

2001 - 2003 Master in Neuroscience, Physiology Department, Universidad Autonoma de Barcelona, Barcelona, Catalunya, Spain - Supervisor: Pere Casan i Clara

2000 - 2001 Specialization in Neuroscience, Physiology Department, Universidad Autonoma de Barcelona, Barcelona, Catalunya, Spain - Supervisor: Pere Casan i Clara

1996 - 1999 Bachelor in Physical Therapy, Department of Physical Therapy, Universidade Estadual de Londrina

### Trabajo actual

2006 – present Associate Professor, Department of Physical Therapy, Universidade Federal do Rio grande do Norte, Natal, Rio Grande do Norte, Brasil.

*Professor Guilherme Fregonezi is Associate Professor of Physical Therapy since 2014 and coordinator of the PneumoCardioVascular Lab. at “Universidade Federal do Rio Grande do Norte “. He is a fellow of Brazilian National Research Council - CNPq since 2010. Responsible for a course of Peripheral Vascular Physical Therapy and Clinical Practice.*

## **D. PREMIOS**

### **Distinciones y premios de investigación**

#### **Internacional**

2019- Mención de Honor del Premio de Tesis CAPES 2019, CAPES - DOU 06/09/2019, Edición 173, Sección 3, Página 122.

2019 - Trabajo premiado como destacado en el Departamento de Atención Respiratoria en el XI Congreso de la Asociación Latino Americana de Tórax (ALAT), Ciudad de Panamá, Panamá, Asociación Latino Americana de Tórax (ALAT).

2018 - Mejor trabajo de investigación sobre atención respiratoria en el XI Congreso de la Asociación Latinoamericana del Tórax (ALAT), Ciudad de México, México, Asociación Latinoamericana del Tórax (ALAT).

2010 - Silver Sponsorship Fellow - European Respiratory Annual Congress, European Respiratory Society (ERS), Barcelona, Catalunya, España, Rehabilitación respiratoria, 1000,00 euros

2007 - Bronze Sponsorship Fellow - Congreso Anual Respiratorio Europeo, Sociedad Respiratoria Europea (ERS), Estocolmo, Suecia, Rehabilitación Respiratoria, 1,000.00 Euros

2005 - Becas de viaje del Congreso de profesionales respiratorios aliados - Congreso anual europeo de respiración, Asamblea de profesionales respiratorios aliados - Sociedad Europea de Respiración (ERS), Copenhagen, Dinamarca, Rehabilitación respiratoria, 1,000.00 Euros

2004 - ERS Patrocinio de Jóvenes Científicos - Congreso Anual Respiratorio Europeo, Sociedad Respiratoria Europea (ERS), Congreso Anual Glasgow 2004, 1,000.00 Euros, Rehabilitación Respiratoria

2003 - Young Investigators Award 2nd Prize - Best Abstract - European Respiratory Annual Congress, European Respiratory Society (ERS), Viena, Austria, 750,00 euros Rehabilitación respiratoria

#### **Nacional**

2018 - Primer lugar en modo póster, Belo Horizonte, Minas Gerais, XXII Congreso Brasileño de Fisioterapia (COBRAFI) - Asociación de Fisioterapeutas de Brasil.

2010 - Premio Antonio Fernando Brunetto - Tercer lugar - Graduado en la categoría de póster, XV Simposio internacional de fisioterapia - ASSOBRAFIR, Porto Alegre, Rio Grande do Sul, Brasil

#### **LOCAL**

1999 - Young Award Scientific 3rd place, Universidad del Norte de Paraná UNOPAR, Fisioterapia Respiratoria, Londrina, Paraná, Brasil

## **E. AFILIACIONES Y ACTIVIDADES PROFESIONALES**

### **Asociaciones Profesionales**

2016 - miembro actual, ASSOBRAFIR - Asociación Brasileña de Fisioterapia Respiratoria, número 2036

2016 - Miembro actual, ALAT - Asociación Latinoamericana de Torax, número 2087

2015 - 2015 Presidente de la sesión de pósters, ERS International Congress Amsterdam 2015

2014 - 2014 Presidente de la sesión de pósters, ERS International Congress Munich 2014

2013 - 2013 Presidente de sesión de pósters, Congreso Internacional ERS Viena 2013

2014 - 2017 Miembro, Comisión de Fisioterapia Cardiovascular - ASSOBRAFIR

2003 - miembro actual, ERS - European Respiratory Society, número 126573

## **F. Miembro de corpo Editorial de Revistas Científicas**

2018 - presente Diario de la Sociedad Coreana de Medicina Física

2013 - 2017 Revista Brasileira de Fisioterapia (BJPT)

2011 - presente Journal of Respiratory and CardioVascular Physical Therapy (editor)

## **G. Consultor peer-review de universidades y órganos públicos de investigación de Gobiernos**

Consejo Nacional Brasileño para el Desarrollo Científico y Tecnológico - Ministerio de Ciencia, Tecnología, Innovación y Comunicación - Brasil

Coordinación de Mejoramiento de Personal de Nivel Superior - Ministerio de Educación - Brasil

Fundación de Apoyo a la Ciencia y Tecnología del Estado de Pernambuco (FACEPE) — Brasil

Departamento de Ciencia y Tecnología] (DECIT) - Ministerio de Salud de Brasil

Universidad Federal de Rio Grande do Norte - Brasil

Universidad Federal de São Carlos - Brasil - Brasil

Universidad Federal de Goiás - Brasil

Universidad Federal de Ciencias de la Salud de Porto Alegre - Brasil

Universidad Federal de Mato Grosso do Sul - Brasil

## **H.Actuación peer review en revistas científicas**

2018 - actuales Annals of Medicine

2018 - ARCHIVOS actuales DE MEDICINA FÍSICA Y REHABILITACIÓN

2018 - actual fisiología comparativa del ejercicio

2015 - Actual Revista Fisioterapia e Pesquisa

2014 - Actual revista brasileña de neumología

2012 - Fisioterapia actual en movimiento (PUCPR

2012 - Actual The Journal of Nutrition, Health & Aging

2012 - Atención respiratoria actual

2011 - Archivos actuales de neuro-psiquiatría

2010 - Clínicas actuales (USP)

2009 - Revista actual de investigación y desarrollo de rehabilitación

2008 - Informes actuales de casos de BMJ

2007 - Actual Revista Brasileira de Fisioterapia

2007 - Hasta ahora Archivos de Ciencias de la Salud (FAMERP)

## **C. Financiación de la investigación**

### **1. Subvenciones, contratos y ensayos clínicos**

## **SUBVENCIONES REVISADAS POR PARES**

2015 - 2019 Cooperación internacional Brasil / Cursiva: innovación tecnológica en mecánica respiratoria y rehabilitación (RENORBIO / POLIMI TBMLab). Programa General de Cooperación Internacional. Financiado por: Coordinación de Mejoramiento de Personal de Nivel Superior, Ministerio de Educación PGCI / CAPES Edital 026/2008, R \$ 688,739.20.

2015 - 2019 Pletismografía optoelectrónica: valores de referencia en individuos sanos y aplicabilidad clínica en diferentes poblaciones. Financiado por: Coordinación de Mejoramiento del Personal de Nivel Superior - Ministerio de Educación Edital N 071/2013 - PROGRAMA NACIONAL DE COOPERACIÓN ACADÉMICA - PROCAD, R \$ 359,529.6 reales.

2013 - 2016 Intervenciones educativas para aumentar el control de la presión arterial en pacientes con hipertensión arterial sistémica: una revisión sistemática con metanálisis. Financiado por: Consejo Nacional Brasileño para el Desarrollo Científico y Tecnológico Llamada MCTI / CNPq / MS, SCTIE, Decit No. 57/2013. REBRATS - R \$ 274,600.00 reales.

2012 - 2013 Indicadores para controlar el riesgo cardiovascular en la hipertensión: una revisión sistemática con metanálisis. Financiado por: Consejo Nacional de Brasil para el Desarrollo Científico y Tecnológico Anuncio Universal 14/2011 - Banda B Financiado con R \$ 30,935.00 reales. Proceso 475950/2011.

2010 - 2015 Tratamiento de heridas y quemaduras con apósitos de carboximetilcelulosa: una revisión sistemática de ensayos clínicos aleatorios con metanálisis. Financiado por: Consejo Nacional Brasileño para el Desarrollo Científico y Tecnológico, Edital MCT / CNPq / CT-Saúde / MS / SCITE / DECIT 67/2009. Proceso 559416 / 2009-1 Financiado R \$ 78,102.70 reales.

2010 - 2012 Implementación, costos y beneficios de un programa de actividad física para la Enfermedad Pulmonar Obstructiva Crónica: aplicación en Centros de Atención Primaria del SUS. Financiado por: Consejo Nacional Brasileño para el Desarrollo Científico y Tecnológico, CNPq 14/2009 - Universal R \$ 10,078.00 reales.

2009 - 2011 Prevalencia de signos y síntomas de EAP y neuropatía y capacidad de ejercicio en pacientes diabéticos atendidos por el sistema de salud único en la ciudad de Natal. Coordinador Adjunto. Financiado por: FAPERN PPSUS III 011/2009 R \$ 29,966.90 reales.

2009 - 2009 Implantación del sistema de Pletismografía Optoelectrónica en el Laboratorio de Performance PneumoCardioVascular and Respiratory Muscles. Financiado por Pro-Equipment. 13/2008-CAPES con recursos de 147,858.00 reales.

2008-2009 Efecto del entrenamiento muscular respiratorio sobre la función pulmonar, muscular respiratoria en pacientes con distrofia muscular miotónica. Financiamiento: FAPERN 03/2007 13,000.00 Reales / Nuevo Doctor-UFRN 3,000.00 reales

## **2. APOYO SALARIAL Y OTRA FINANCIACIÓN**

### **Apoio salarial personal**

2010– Actual Consejo Nacional Brasileño para el Desarrollo Científico y Tecnológico - Ministerio de Ciencia, Tecnología, Innovación y Comunicación Científica. [CNPq]. C \$ 400 dólares canadienses / mes

Becario

2001 - 2005 Beca de doctorado. Consejo Nacional de Desarrollo Científico y Tecnológico de Brasil, Ministerio de Ciencia, Tecnología, Innovación y Comunicación. R \$ 287,173.66 reales. Barcelona, Catalunya, España.

## C. Artículos

1. Derbapva A, Khu S, Ho K, Lewis C, Ma T, Melo L, Zabjek F, Goligher EC, Brochard L, **Fregonezi G**, Reid WD. Neck and Inspiratory Muscle Recruitment during Inspiratory Loading and Neck Flexion. *Med Sci Sports Exerc.* 2020 Jan 17, 1-10.
2. Mendes L, Lima INDF, Souza T, do Nascimento G, Resqueti V, **Fregonezi, GAF** . Motor neuroprosthesis for promoting recovery of function after stroke. *Cochrane Database Syst Rev.* 2020 Jan 14;1:CD012991.
3. Sarmeto A, **Fregonezi G**, Dourado Jr, Aliverti A, De Andrade A, Parreira VF, Resqueti V. Thoracoabdominal asynchrony and paradoxical motion in middle stage amyotrophic lateral sclerosis. *Respir Physiol Neurobiol.* 2019 Jan;259:16-25.
4. Chaves GSS, Freitas DA, Nogueira PAMS, **Fregonezi G**, Mendonça KMPP. Chest physiotherapy for pneumonia in children. *Cochrane Database Syst Rev.* 2019 Jan 2;1:CD010277.
5. Mendes LPS, Vieira DSR, Gabriel LS, Ribeiro-Samora GA, Dornelas de Andrade AFD, Brandao D, Goes MCR, **Fregonezi G**, Britto RR, Parreira VF . Influence of posture, sex, and age on breathing pattern and chest wall motion in healthy subjects. *Braz J Phys Ther.* 2019 Mar 1. pii: S1413-3555(18)30278-8.
6. Farias CC, Gualdi LP, Bruno SS, Parreira VF, Montemezzo D, Resqueti V, **Fregonezi G** . Effects of different modalities of inspiratory muscle training as an add-on to conventional treatment of patients with chronic obstructive pulmonary disease (COPD): study protocol for a randomized controlled trial. *Trials.* 2019 Apr 24;20(1):231.
7. Florêncio RB, Aliverti A, Fagundes MLLC, Batista IPS, Sarmento A, Resqueti V, **Fregonezi G**. Acute effects of three pulmonary reexpansion modalities on thoracoabdominal motion of healthy subjects: Randomized crossover study. *PLoS One.* 2019 Mar 19;14(3):e0213773.
8. Florêncio RB, Sarmento A, Lima INDF, Gualdi LP, Cabral EE, FAGUNDES, Fagundes MLLC, Aliverti A, Resqueti V, **Fregonezi G**. Chest wall volume and asynchrony in stroke and Parkinson?s disease subjects: A case-control study. *PLoS One.* 2019 May 16;14(5):e0216641.
9. Medeiros JDF, Benício KFG, Resqueti VR, **Fregonezi GAF**, Aliverti A. Acute Effects of Inspiratory Loads and Interfaces on Breathing Pattern and Activity of Respiratory Muscles in Healthy Subjects. *Front Physiol.* 2019 Aug 2;10:993.
10. Bonete G, Lima Dias BA, Moura L, Ataliba D, Fernandes ATSN, Perreira H, Ribeiro CDD, Pires Sousa AG, Resqueti V, **Fregonezi G**, Lavezzo Dias FA. Impaired Heart Rate Variability, Valsalva and 30:15 Ratio Indexes Are Associated With Reduced Submaximal Exercise Capacity in Subjects With Diabetes Mellitus. *Diabetes Res Clin Pract.* 2019 Sep;155:107813.
11. Bernardes NSC, Torres-Castro R, Lima INDF, Resqueti VR, **Fregonezi G**. Weaning from mechanical ventilation in people with neuromuscular disease: protocol for a systematic review. *BMJ Open.* 2019 Nov 4;9(11):e029890.
12. Lima INDF, Sarmento A, Goes MCR, Mazzuca E, Lomauro A, Reid W, Aliverti A, **Fregonezi G**. After-effects of thixotropic maneuvers on chest wall and compartmental operational volumes of healthy subjects using optoelectronic plethysmography. [Front Physiol.](#) 2019 Nov 1;10:137

### Curriculum Vitae **Guilherme Augusto Freitas Fregonezi**

13. **Fregonezi GAF**, Sarmiento A, Pinto JD, Mauro AL, Resqueti VR, Aliverti A. Thoracoabdominal Asynchrony Contributes to Exercise Limitation in Mild Asthmatic Subjects. *Frontiers in Physiology*, v. 9, p. 1-13, 2018.
14. Sarmiento A, **Fregonezi GAF**, Dourado Junior ME, Aliverti A, Dornelas de Andrade AFD, Parreira, VF, Resqueti V. Thoracoabdominal asynchrony and paradoxical motion in middle stage amyotrophic lateral sclerosis. *RESPIRATORY PHYSIOLOGY & NEUROBIOLOGY*, v. xx, p. xx-xx, 2018.
15. Mendes L, Lima INDF, Souza T, Nascimento GC, squat VR, **Fregonezi G**. Motor neuroprosthesis for promoting recovery of function after stroke (Protocol). *Cochrane Database of Systematic Reviews*, v. 3, p. 1, 2018.
16. Cabral EAM, **Fregonezi GAF**, Melo L, Basoudan N, Mathur S, Reid W Darlene. Surface electromyography (sEMG) of extradiaphragm respiratory muscles in healthy subjects: A systematic review. *JOURNAL OF ELECTROMYOGRAPHY AND KINESIOLOGY*, v. 42, p. 123-135, 2018.
17. Yanes MO, Torres-Castro R, Sarmiento A, Lillo GBR, Resqueti VR ; **Fregonezi, Guilherme A. F.** . Nasal continuous positive airway pressure for sleep- disordered breathing after stroke (Protocol). *Cochrane Database of Systematic Reviews*, v. 10, p. 1-14, 2018.
18. Ribeiro R, Brandão D, Noronha J, Lima C, **Fregonezi G**, Resqueti V, Dornelas de Andrade A. Breath-stacking and incentive spirometry in Parkinson's disease: randomized crossover clinical trial. *Respir Physiol Neurobiol*. 2018 May 1;255:11-16. doi: 10.1016/j.resp.2018.04.011. Coauthor or Collaborator.
19. Mendes L, Lima INDF, Souza T, Nascimento GC, Resqueti V, **Fregonezi G**. 2018. Motor neuroprosthesis for promoting recovery of function after stroke In *Cochrane Database of Systematic Reviews*. , v.3, 1-12. Senior Responsible Author.
20. Sarmiento A, Aliverti A, Marques L, Pennati F, Dourado-Junior ME, **Fregonezi G**, Resqueti V. Multiparametric Analysis of Sniff Nasal Inspiratory Pressure Test in Middle Stage Amyotrophic Lateral Sclerosis In *Frontiers in Neurology*. v.9, online 2 May, doi:10.3389/fneur.2018.00306. Coauthor or Collaborator.
21. Sarmiento A, de Andrade AF, Lima ÍN, Aliverti A, de Freitas **Fregonezi GA**, Resqueti VR. Air Stacking: A Detailed Look Into Physiological Acute Effects on Cough Peak Flow and Chest Wall Volumes of Healthy Subjects. *Respir Care*. 2017 Apr;62(4):432-443. Doi: 10.4187/respcare.05189. Coauthor or Collaborator.
22. Sarmiento A, Resqueti VR, **Fregonezi GAF**, Aliverti A. Assessment of gas compression and lung volume during air stacking maneuver. *Eur J Appl Physiol*. 2017 Jan;117(1):189-199. Doi: 10.1007/s00421-016-3511-y. Coauthor or Collaborator.
- 23.
24. Brilhante S; Florêncio RB, Gualdi LP, Resqueti VR, Aliverti A Dornelas de Andrade AFD, **Fregonezi GAF**. Comparison of different levels of positive expiratory pressure on chest wall volumes in healthy children and patients with fibrosis. *Fisioter Pesqui*. 2017;24(3):311-320. Doi:10.1590/1809-2950/17015824032017. Senior Responsible Author.
25. Sarmiento A, Resqueti V, Dourado-Júnior M, Saturnino L, Aliverti A, **Fregonezi G**, de Andrade AD. 2017. Effects of air stacking maneuver on cough peak flow and chest wall compartmental volumes of amyotrophic

- lateral sclerosis subjects. Arch Phys Med Rehabil. 2017 Nov;98(11):2237-2246.e1. doi: 10.1016/j.apmr.2017.04.015. Coauthor or Collaborator.
26. Cabral EEA, Resqueti VR, Lima INDF, Gualdi LP, Aliverti A, **Fregonezi GAF**. Effects of positive expiratory pressure on chest wall volumes in subjects with stroke compared to healthy controls: a case-control study. Braz J Phys Ther. 2017 Nov - Dec;21(6):416-424. doi: 10.1016/j.bjpt.2017.06.006. Senior Responsible Author.
27. Evangelista MA, Dias FAL, Dourado Júnior MET, do Nascimento GC, Sarmento A, Gualdi LP, Aliverti A, Resqueti V, **Fregonezi GAF**. 2017. Noninvasive assessment of respiratory muscle strength and activity in Myotonic dystrophy. PLoS One. 2017 Jun 8;12(6):e0177318. doi: 10.1371/journal.pone.0177318. Senior Responsible Author.
28. Lima ÍNDF, **Fregonezi GAF**, Florêncio RB, Campos TF, Ferreira GH. Observational practice of incentive spirometry in stroke patients. Braz J Phys Ther. 2017 Jan - Feb;21(1):24-29. Doi: 10.1016/j.bjpt.2016.12.002. Responsible Author
29. Monteiro DP, Britto RR, **Fregonezi GAF**, Dias FAL, Silva MGD, Pereira DAG. Reference values for the bilateral heel-rise test. Braz J Phys Ther. 2017 Sep-Oct;21(5):344-349. Doi: 10.1016/j.bjpt.2017.06.002. Coauthor or Collaborator.
30. Cardoso DM, **Fregonezi GA**, Jost RT, Gass R, Alberton CL, Albuquerque IM, Paiva DN, Barreto SS. Acute effects of Expiratory Positive Airways Pressure (EPAP) on different levels in ventilation and electrical activity os sternocleidomastoid and parasternal muscle in Chronic Obstructive Pulmonary Disease ( COPD) patients: a randomized controlled trial. Braz J Phys Ther. 2016 Nov-Dec;20(6):525-534. Doi: 10.1590/bjpt-rbf.2014.0190. Coauthor or Collaborator.
31. Magalhães CM, **Fregonezi GA**, Vidigal-Lopes M, Vieira BS, Vieira DS, Parreira VF. Effects of non-invasive ventilation and posture on chest wall volumes and motion in patients with amyotrophic lateral sclerosis: a case series. Braz J Phys Ther. 2016 Jul-Aug;20(4):336-44. doi: 10.1590/bjpt-rbf.2014.0164. Coauthor or Collaborator.
32. Albuquerque IM, Cardoso DM, Masiero PR, Paiva DN, Resqueti VR, **Fregonezi GA**, Menna-Barreto SS. Effects of positive expiratory pressure on pulmonary clearance of aerosolized technetium-99m-labeled diethylenetriaminepentaacetic acid in healthy individuals. J Bras Pneumol. 2016 Nov-Dec;42(6):404-408. doi: 10.1590/S1806-37562015000000320. Coauthor or Collaborator.
33. Araujo DN, Ribeiro CT, Maciel AC, Bruno SS, **Fregonezi GA**, Dias FA. Physical exercise for the treatment of non-ulcerated chronic venous insufficiency. Cochrane Database Syst Rev. 2016 Dec 3;12: CD010637. doi: 10.1002/14651858.CD010637.pub2. Coauthor or Collaborator.
34. Sales AT, **Fregonezi GA**, Ramsok AH, Guenette JA, Lima IN, Reid WD. Respiratory muscle endurance after respiratory muscle training in athletes and non-athletes: a systematic review and meta-analysis. Phys Ther Sport. 2016 Jan;17:76-86. doi: 10.1016/j.ptsp.2015.08.001. Coauthor or Collaborator.
35. Silva AGCB, Araujo DN, Costa ACM, Bruna AL, **Fregonezi GAF**, Dias FAL. Increase in perceived stress is correlated to lower heart rate variability in healthy young subjects. Acta Scientiarum. Health Sciences 2015, Jan.-June, 37,(1): 7-10.10. Doi: 4025/actascihealthsci.v37i1.21676. Coauthor or Collaborator.



36. Ribeiro CD, Resqueti VR, Lima I, Dias FAL, Glynn L, **Fregonezi GAF**. Educational interventions for improving control of blood pressure in patients with hypertension: a systematic review protocol. *BMJ Open*. 2015; 5(3): e006583. doi:10.1136/bmjopen-2014-006583. Senior Responsible Author.
37. Benício K, Dias FAL, Gualdi LP, Aliverti A, Resqueti VR, **Fregonezi GAF**. Effects of diaphragmatic control on the assessment of sniff nasal inspiratory pressure and maximum relaxation rate. *Braz J Phys Ther*. 2016 Jan-Feb; 20(1): 96–103. Published online 2015 Nov 17. doi: 10.1590/bjpt-rbf.2014.0101. Senior Responsible Author.
38. Sales ATN, **Fregonezi GAF**, Silva AGC, Ribeiro CTD, Dourado- Junior ME, Souza AGP, Dias FAL. Identification of peripheral arterial disease in diabetic patients and its association with quality of life, physical activity and body composition *J Vasc Bras*. 2015 Jan.-Mar.; 14(1):46-54. Doi: 10.1590/1677-5449.20140043. Responsible Author
39. Gimeno\_Santos E, **Fregonezi GAF**, Torres -Castro R, Rabinovich R, Vilaró J. Inspiratory muscle training and exercise versus exercise alone for asthma. *Cochrane Database of Systematic Reviews (Online)*. v.7, CD011794 - PAG-10. Doi: 10.1002/14651858.CD011794. Coauthor or Collaborator.
40. **Fregonezi G**, Azevedo IG, Resqueti VR, De Andrade AD, Gualdi LP, Aliverti A, Dourado-Junior ME, Parreira VF. Muscle Impairment in Neuromuscular Disease Using an Expiratory/Inspiratory Ratio. *Respir Care*. 2015 Apr;60(4):533-9. doi: 10.4187/respcare.03367. Responsible Author
41. Borghi-Silva A, Mendes RG, Trimer R, Oliveira CR, **Fregonezi GA**, Resqueti VR, Arena R, Sampaio-Jorge LM, Costa D. Potential effect of 6 vs 12-weeks of physical training on cardiac autonomic function and exercise capacity in chronic obstructive pulmonary disease. *Eur J Phys Rehabil Med*. 2015 Apr;51(2):211-21. Epub 2014 Mar 5. Coauthor or Collaborator.
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18. 2008-2010 Palmoma Russelly Saldanha de Araujo. Reference values of nasal inspiratory pressure for the Brazilian population. Dissertation (Masters in Physiotherapy) - Federal University of Rio Grande do Norte, Brazil.

## Curriculum Vitae Guilherme Augusto Freitas Fregonezi

19. 2008-2010            Fernanda Gadelha Severino. Respiratory Muscle Assessment: Adaptation of Respiratory Muscle Assessment: an adaptation of the national manometer r for the evaluation of the sniff test and level of intensity of maximum voluntary ventilation in healthy subjects. Dissertation (Masters in Physiotherapy) - Federal University of Rio Grande do Norte, Brazil.
20. 2008-2010            Catharinne Angelica Carvalho de Farias. Costs and benefits of an aerobic exercise program in chronic obstructive pulmonary disease: a randomized controlled clinical trial. Dissertation (Masters in Physiotherapy) - Federal University of Rio Grande do Norte, Brazil.
21. 2007-2009            Thaise Lucena Araujo. Respiratory Muscular Strength, Quality of Life and Autonomic Heart Rate Modulation in Myotonic Dystrophy. Dissertation (Masters in Physiotherapy) - Federal University of Rio Grande do Norte, National Council of Scientific and Technological Development.

## 2. Doctorado

1. 2014-2018            Catharinne Angélica Carvalho de Farias. Effects of respiratory muscle training with different modalities in patients with obstructive pulmonary disease: a randomized controlled clinical trial. 2018. Thesis (Doctoral Degree in Physiotherapy) - Federal University of Rio Grande do Norte,. Advisor: Guilherme Augusto de Freitas Fregonezi.
2. 2014-2018            Rêncio Bento Florêncio. • Study of thoracic wall volumes in restrictive respiratory disease and analysis of instruments for pulmonary reexpansion in healthy subjects? .. 2018. Thesis (Doctorate in RENORBIO - Northeast Network of Biotechnology) - Federal University of Rio Grande do Norte, Coordination of Improvement of Higher Level Personnel. Advisor: Guilherme Augusto de Freitas Fregonezi.
3. 2014-2018            Esther Fernandes Tinoco Volpe. Development of equipment for evaluation of joint parameters in individuals with chronic venous insufficiency. 2018. Thesis (Doctorate in RENORBIO - Northeast Network of Biotechnology) - Federal University of Rio Grande do Norte. Advisor: Guilherme Augusto de Freitas Fregonezi.
4. 2012-2015            Illia Nadinne Florentino Dantas. Technological development of a device for respiratory muscular training in the isometric contraction modality. 2015. Thesis (Ph.D. in RENORBIO - Northeast Network of Biotechnology) - Federal University of Rio Grande do Norte
5. 2012-2014            Ana Tereza do Nascimento Sales. Development and validation of a device for the dynamic evaluation of respiratory muscles. 2015. Thesis (Doctorate in Physiotherapy) - Federal University of Rio Grande do Norte.
6. 2012-2016            Palomma Russelly Saldanha de Araujo. Technological development of respiratory cycle training device and evidence on inspiratory muscle training in chronic obstructive pulmonary disease. Thesis (Ph.D. in RENORBIO - Northeast Network of Biotechnology) - Federal University of Rio Grande do Norte.

### **3. Post Doctorado**

1. March 2017 - Nov 2017                      Antonio Jose Sarmiento da Nobrega. Universidade Federal do Rio Grande do Norte. CAPES Foundation (Scholarship grants) - Ministry of Education Brazil.
2. Sept 2015- Febr 2016                      Illia Nadinne Florentino Dantas Lima. Universidade Federal do Rio Grande do Norte. Brazilian National Council for Scientific and Technological Development.
3. Sept 2015- Febr 2016                      Lucien Peroni Gualdi. Universidade Federal do Rio Grande do Norte. Brazilian National Council for Scientific and Technological Development Conselho Nacional de Desenvolvimento Científico e Tecnológico.
4. Jan 2014- Dec 2015                      Lucien Peroni Gualdi. Universidade Federal do Rio Grande do Norte. Brazilian National Council for Scientific and Technological Development