TEXAS STATE VITA

I. Academic/Professional Background

A. Name: Joshua Gonzales Title: Associate Professor

B. Educational Background

Degree	*Year*	*University*	*Major*
DHSc	2018	Nova Southeastern University	Doctorate of Health Science
Grad Certificate	2012	Texas State University	Polysomnographic Technology
MHA	2007	Webster University	Health Administration
BSRC	2004	Texas State University	Respiratory Care

C. University Experience

Position	*University*	*Dates*
Director RRT-to-BSRC Online Degree Completion Program	Texas State University	2018 - 2021
Associate Professor	Texas State University	2013 - Present
Tenured	Texas State University	Fall 2013
Assistant Professor	Texas State University	2007 - 2013
Clinical Instructor	Texas State University	Spring 2007

D. Relevant Professional Experience

Position	*Entity*	*Dates*
Staff Respiratory Therapist	Warm Springs Rehab Kyle, TX	2014 - 2016
Respiratory Care Charge Therapist	University Hospital-UHS San Antonio, Texas	2004-2008
Respiratory Therapist	Christus Santa Rosa, San Antonio, Texas	2004-2005
Respiratory Care Assistant	Brakenridge Hospital, Austin Texas	2003-2004
Respiratory Care Assistant	American Homepatient Austin, Texas	2002-2003

E. Other Professional Credentials (licensure, certification, etc.)

Registered Respiratory Therapist, RRT, National Board for Respiratory Care
Neonatal and Pediatric Specialist, NPS, National Board for respiratory Care
Sleep Disorders Specialist, SDS, National Board for Respiratory Care
Respiratory Care Practitioner, RCP, Texas Department of State Health
Advanced Cardiac Life Support (ACLS) Provider Card
Pediatric Advance Life Support (PALS) Provider Card
Neonatal Resuscitation Provider Card (NRP)
Basic Life Support Provider Card (BLS)

II. TEACHING

A. Teaching Honors and Awards:
Foundations of Excellence Award Winner for 2013.

Award/Honor Recipient: Teaching Award of Honor, Texas State University Alumni Association. September 2020. In recognition of exemplary service during the COVID-19 Pandemic.

B. Courses Taught:
Courses Currently Teaching:
RC 3232 Hemodynamic Diagnostics
RC 4211 Respiratory Care Research
RC 4316 RC Clinical Practice IV
RC 4224 Research Seminar
RC 3212 Pharmacology
RC 3313 RC Clinical Practice I
RC 3323 RC Clinical Practice II
RC 3333 RC Clinical Practice III
RC 4321 Leadership, Management, and Education
RC 4321 Leadership, Management, Education (WI)
RC 4311 Interdisciplinary Healthcare (WI)
RC 4211 Respiratory Care Research
RC 4224 Research Seminar

Previous Coursework Developed:
RC 5301 Advanced Cardiopulmonary Physiology

Courses Previously Taught:
RC1445 RC Clinical Lab II
RC 2355 RC Practice I
RC 2365 RC Practice II
RC 3311 Applied Pathology
RC 2375 RC Practice III
RC 3314 RC Instrumentation
RC 3324 Advanced RC Instrumentation

RC 3352 Advanced Ventilator Concepts
RC3365 RC Practice IV
RC 4314 Advanced Ventilator Concepts
RC 3323 RC Clinical Practice II
RC 3324 Critical Care Instrumentation
RC 3333 RC Clinical Practice III

C. Graduate Theses/Dissertations or Exit Committees (if supervisor, please indicate):

D. Courses Prepared and Curriculum Development:
RC 4333 Neonatal Critical Care. This course will provide the Respiratory Care student with advanced knowledge on the management of the neonatal patient in the critical care environment. The course will expose the student to advanced therapeutics and mechanical ventilation strategies. Course content will prepare the student for the role of neonatal specialist.

RC 4309 Pulmonary Diagnostics. An overview of cardiopulmonary diagnostic procedures addressing selected disorders including asthma, chronic obstructive lung diseases, restrictive lung disorders, pulmonary edema, congestive heart failure, and cardiac disorders.

RC4321 Leadership, Management, and Education. This course explores the various methods of leadership and management, both in and out of healthcare, and their impact on productivity, profitability, and employee satisfaction. Critical analysis will be performed of different types of leadership and management theories. Students participating in the course will gain knowledge of various leadership types. In addition, students in the course will asked to perform tasks common to leadership roles within a RC department.

RC 3232 Hemodynamic Diagnostics. An advanced study of cardiovascular hemodynamic measurements. Normal cardiovascular physiology and measures are examined, as well as variations caused by disease. Current clinical trends and practices in hemodynamic procedures are also explored**.**

RC4211 Respiratory Care Research. The course is an introductory course to clinical research and evidence-based practice. Students participating in the course will receive information on the application of clinical research and the components of a research manuscript. It is the goal of the course to enhance a student's knowledge of the importance of research and the process for conducting research and developing a research manuscript.

RC 4224 Research Seminar. Research Seminar will provide the student learner with an in-depth understanding of the components of a research manuscript. Also, the students participating in the course will gain an understanding of the process of developing and presenting a scientific peer reviewed poster presentation. It is the goal of the course to enhance a student's knowledge of the importance of research and the process for conducting research and developing a research manuscript.

RC 3212 Pharmacology. A comprehensive study of pharmacology principles. Receptor theory, clinical applications of medications, and historical analysis of first-generation medications will be covered. Current medication trends and recommendations are also examined.

RC 3313 RC Clinical Practice I. Introduction to clinical skills, including vital signs, chest assessment, infection control, aerosolized medication delivery, oxygen therapy, hyperinflation

therapy, airway clearance, etc. This course prepares the student for direct patient care to be performed in more advanced courses. All procedures are performed under close supervision.

RC 3323 RC Clinical Practice II. Students gain skills in the clinical procedures, interaction with patients and professional personnel as a respiratory therapy student under supervision in a health care setting. The students will become familiar with various RC aspects of patient care as presented in medical, surgical, and trauma situations.

RC 3333 RC Clinical Practice III. The student gains skill in clinical procedures, interactions with patients and professional personnel as he/she practices respiratory care therapeutic modalities under supervision in a health care setting.

RC 4316 RC Practice IV. This course offers advanced clinical education in the intensive care setting in which the student monitors and administers critical care therapeutics on assigned patients in the adults and neonatal intensive care units.

RC 4314 Advanced Ventilator Concepts. Advanced Ventilator Concepts is an in-depth study of specific ventilators used in adult ventilation to include traditional and proposed ventilator classification, method of operation, parameter interrelationships and ventilator patient monitoring.

RC 3311 Applied Pathology. This course was designed to familiarize students to the pathology of selected pulmonary disease entities utilizing classroom lectures, case presentations, and clinical simulation software.

RC 2375 RC Practice III. The student gains skill in clinical procedures, interactions with patients and professional personnel as he/she practices respiratory care therapeutic modalities under supervision in a health care setting.

RC 3352 Advanced Ventilator Concepts. This course is an in-depth study of specific ventilators used in adult ventilation to include traditional and proposed ventilator classification, method of operation, parameter interrelationships and ventilator patient monitoring.

RC 2365 RC Practice II. The student gains skill in clinical procedures, interaction with patients and professional personnel as he/she practices respiratory care therapeutic modalities under supervision in a health care setting. He/she becomes familiar with various RC aspects of patient care as presented in medical/surgical and pediatric situations.

RC 3365 RC Practice IV. This course offers advanced clinical education in the intensive care setting in which the student monitors and administers critical care therapeutics on assigned patients in the adults and neonatal intensive care units.

RC 3331 Advanced RC Instrumentation. This course is a comprehensive focus on advanced equipment and technology utilized in the critical care, homecare, pulmonary rehabilitation and blood gas lab settings. Lectures and class activities will detail hardware for hemodynamic monitoring, supplemental oxygen administration, noninvasive monitoring, blood gas measurement, quality control & assurance and mechanical ventilator concepts.

G. Funded Internal Teaching Grants and Contracts:

Gonzales J. G. (PI) and Russian C. J. (Co-PI) (2011-2012). The use of clinical simulation videos to enhance simulation practice. This project was designed to improve the respiratory care student's simulation activity and understanding. Library Research Grant. Proposal #:03-315-161. **(Funded amount: $1,169.00).**

2010 Gonzales, JF. Departmental Laptop and Camcorder Funding Request. Family Association Fund. **Amount awarded $ 1,254.95** Awarded 11/1/10.

Gonzales, J. G. (PI) & Russian, C. J. (Co-PI) (2008-2009). Improvement of critical thinking skills of respiratory care students. We request money to purchase study guides for the National Board for Respiratory Care CRT and RRT exams. Library Research Grant. (**Funded amount: $2535.00**).

H. Submitted, but not Funded, Internal Teaching Grants and Contracts:

Rodrigues, N. A.(PI) & Gonzales, J. F. (Co-PI). (2018). Library Resources Grant: C & S Solution Applications. Amount requested: $11,983.50. Proposal # 04-455-981

Gonzales, J. F. (PI) & Russian, C. J. (Co-PI) (2011-2012). Journal back-file request. This grant was written to obtain journal volumes and editions not available in Alkek holdings. Library Resource Grant. Proposal #:03-357-483. (Amount requested: $36,470.00).

III. SCHOLARLY/CREATIVE

A. Works in Print (including works accepted, forthcoming, in press)

2. Articles

a. Refereed Journal Articles:

Showalter, V. Russian, C.J., & Ari, A. (2021). Student's perceived self-efficacy, expectations, barriers, and support in enrolling a master's degree program in respiratory care. *Canadian Journal for Respiratory Therapy,* 57, 154-159. Available at cjrt-2021-020.pdf

Gonzales, J. F., Meyers, M. P. (2019). Intrapulmonary percussive ventilation. *Neonatal Intensive Care, 32*(4), 36-41. Available at https://www.nicmag.ca/pdf/NIC-32-4-Fall-2019-R10-web.pdf

Gonzales, J. F., Collins, K. P., Russian, C. J. (2017). A narrative summary of high flow nasal cannula therapy in the adult population. *The Internet Journal of Allied Health Sciences and Practice, 15*(8), article 8. Available at http://nsuworks.nova.edu/ijahsp/vol15/iss1/8/

Collins, K. P., Russian, C. J., Gonzales, J. F. (2016). Teaching health care students the radial arterial puncture procedure. *Journal of Allied Health, 45*(4), 283-288. Available at https://www.ncbi.nlm.nih.gov/pubmed/27915362

Russian, C. J., Gonzales, J. F., Schelde, H., Terry, L. A., Albanna, S., & Adams, R. (2016 Winter). A comparison of nebulizer brand on delivered tidal volumes and peak inspiratory pressure during high frequency oscillatory ventilation. *Neonatal Intensive*

Care: The Journal of Perinatology-Neonatology, 29(1), 49-51. Available at http://www.nicmag.ca/pdf/NIC-29-1-Winter-2016-R27-web.pdf

Russian, C. J., Gonzales, J. F., & Henry, N. R. (2014). Suction Catheter Size: An Assessment and Comparison of 3 Different Calculation Methods. *Respiratory Care*, 59(1), 32–38. doi: 10.4187/respcare.02168

Gonzales, J. F., Russian, C. J., Marshall, S. G., Collins, K.P., & Farmer, T. (2013). Comparing the effects of rise time and inspiratory cycling criteria between four different mechanical ventilators. *Respiratory Care*, 58(3), 465-473. doi: 10.4187/respcare.01345

Russian C. J., & Gonzales, J. F. (2012). The Allen Test: A Historical Literature Review and Recommendation. *Respiratory Care Educational Annual*. 21, 57-66. Available at http://www.aarc.org//app/uploads/2015/05/rcea12.pdf

Gonzales, J. F., Marshall, S. G., & Russian, C. J. (2011 July). The relationship between the Mallampati Scoring System, the Berlin Questionnaire, and the Epworth Sleepiness Scale. *Internet Journal of Allied Health, 9*(3). Available at http://ijahsp.nova.edu/articles/Vol9Num3/Gonzales.htm

Gonzales, J. F., & Collins, K. P. (2011). The RPSGT vs. SDS: Addressing the formal credentials of sleep medicine. *Respiratory Care Education Annual*, 20, 35-44. Available at http://www.aarc.org//app/uploads/2015/05/rcea11.pdf

Gonzales, J. F., Marshall, S. G., Russian, C. J., & Stokes T.J. (2010). Critical Thinking Skills and Preferred Learning Styles of Respiratory Care Students. *Respiratory Care Educational Annual*, 19, 57-62. Available at http://www.aarc.org//app/uploads/2015/05/rcea10.pdf

b. Non-refereed Articles:

Russian, C. J., Gonzales, J. F., Schelde, H., Terry, L. A., Albanna, S., & Adams, R. (2016 Winter). A comparison of nebulizer brand on delivered tidal volumes and peak inspiratory pressure during high frequency oscillatory ventilation. *Respiratory Therapy: The Journal of Pulmonary Technique*, 11(1), 22-25. Available at http://www.respiratorytherapy.ca/pdf/RT-11-1-Winter-2016-R15-web.pdf

Russian, C. J., & Gonzales, J. F. (2015). A comparison of nebulizer brand on delivered tidal volumes and peak inspiratory pressure during high frequency oscillatory ventilation. *Respiratory Therapy: The Journal of Pulmonary Technique*, *10*(1), 27-29. Available at http://www.respiratorytherapy.ca/pdf/RT-10-1-Winter15-R7-POSTPRINT-web.pdf

Russian, C. J. & Gonzales, J. F. (2014 April-May). Assessment of endotracheal tube obstruction using a test lung simulator and sound wave technology. *Respiratory Therapy: The Journal of Pulmonary Technique*, 27-31. Available at http://respiratorytherapy.ca/pdf/RT-9-2-AM14-R11-WEB.pdf

Gonzales, J. F., Russian, C. J., & Henry, N. R. (2012 January 12). A Review of Waveform Patterns for Mechanically Ventilated Patients: Constant Flow Versus Decelerating Flow Waveform Patterns. *Respiratory Therapy Magazine*, 10-13. Available at

http://www.rtmagazine.com/2012/01/a-review-of-waveform-patterns-for-mechanically-ventilated-patients-constant-flow-versus-decelerating-flow-waveform-patterns/

Henry, N. R., Gonzales, J. F., Russian, C. J. (2012 January 12). A Review of Inhaled Nitric Oxide in the Hypoxic Newborn. *Respiratory Therapy Magazine*, 6-9. Available at http://www.rtmagazine.com/2012/01/a-review-of-inhaled-nitric-oxide-in-the-hypoxic-newborn/

Gonzales, J. F., & Russian, C. J. (2011, August). Expiratory Asynchrony and Inspiratory Cycling Criteria. *Respiratory Therapy Magazine*, 8-13. Available at http://www.rtmagazine.com/2011/08/expiratory-asynchrony-and-inspiratory-cycling-criteria/

Gonzales, J. F. & Russian, C. J. (2011 January-March). Clarifying rise time and inspiratory cycling criteria settings. *Respiratory Therapy: The Journal of Pulmonary Technique*, 6(1), 34-35. Available at: http://www.rtmagazine.com/

3. Conference Proceedings

a. Refereed Conference Proceedings:

Gonzales, J.F., Hudgins, A.M., Myers, D.L., Tufano, V.E., Russian, C.J., Trad, M.L. An Examination of a Student's Academic GRIT and Mental Wellness Throughout the Advancement of a Health Care Based Program, , **American Association for Respiratory Care International Congress.** November 7, 2024. **Peer Reviewed Poster Presentation**

Hudgins, A.M., Gonzales, J.F., Myers, D.L., Tufano, V.E., Russian, C.J., Trad, M.L. An Examination of Academic GRIT and Personality Traits of Newly Admitted Respiratory Care Students, **American Association for Respiratory Care International Congress.** November 7, 2024. **Peer Reviewed Poster Presentation**

Russian, C.J., Gonzales, J.F. Comparison of a Peristaltic Suction Pump to Wall Suction Regulator as an Airway Clearance Device, **American Association for Respiratory Care International Congress.** November 7, 2024. **Peer Reviewed Poster Presentation**

Russian, C. J., Gonzales, J. F., Wharton, B. J., Corbitt, J., Barnes, M., Calderon, J., & Bowens, K. (2016). Difference in sleep parameters based on the recommended and alternative electrode placements according to the AASM scoring manual. **American Association for Respiratory Care International Congress, 62nd Annual International Congress.** San Antonio, TX. October 15, 2016. **Peer Reviewed International Poster Presentation.**

Russian, C. J., Collins, K. P., Gonzales, J. F., Flores, C., Moffitt, M., Holder, T., & Risner, B. (2016). A comparison of respiratory muscle strength measurements when using the medgraphics, pressure manometer and micro rpm. **American Association for Respiratory Care International Congress, 62nd Annual International Congress.** San Antonio, TX. October 15, 2016. **Peer Reviewed International Poster Presentation.**

Russian, C. J., Armstead, S. V., Gonzales, J. F., Collins, K. P., Alejandre, M., D'Abadie, D., Kowalski, M., & Ledezma, M. (2016). An assessment of the clinical learning environment from respiratory care students during internship rotations: a pilot study. **American Association for Respiratory Care International Congress, 62nd Annual International Congress.** San Antonio, TX. October 15, 2016. **Peer Reviewed International Poster Presentation.**

Russian, C. J, & Gonzales, J.F. A Comparison of FIO2 Concentrations Using a Range of Tidal Volumes and Inspiratory Flowrates. **American Association of Respiratory Care, 58th Annual International Congress.** New Orleans, LA. November 11, 2012. **Peer Reviewed International Poster Presentation.**

Russian, C. J., & Gonzales, J. F. The Assessment of Cuff Pressure Measurements Utilizing Three Clinical Techniques. **American Association of Respiratory Care, 58th Annual International Congress.** New Orleans, LA. November 10, 2012. **Peer Reviewed International Poster Presentation.**

Russian, C. J., & Gonzales, J. F. Medication Compatibility: Implications for Inhalation Therapy. **American Association of Respiratory Care, 58th Annual International Congress.** New Orleans, LA. November 10, 2012. **Peer Reviewed International Poster Presentation.**

Russian C. J., Gonzales, J. F., Martinez A., & Collins, K. P.. Evaluating an Alternative Assessment of Suction Catheter Size Compared to the Airway Diameter. **American Association of Respiratory Care, 57th Annual International Congress.** Tampa Bay, Fl. November 5-7th, 2011. **Peer Reviewed International Poster Presentation.**

Russian C. J., Gonzales, J. F., Martinez A., & Collins, K. P. Evaluating an Alternative Assessment of Suction Catheter Size Compared to the Airway Diameter. **Texas Society of Allied Health Professions.** Dallas, TX September 15-16th, 2011. **Peer Reviewed State Poster Presentation.**

Gonzales, J. F., Russian, C. J., Marshall, S. G., Collins, K. P., & Farmer, T. A.. Comparing the Effects of Inspiratory Cycling Criteria Between Four Different Mechanical Ventilators. **Texas Society of Allied Health Professions.** Dallas, TX September 15-16th, 2011. **Peer Reviewed State Oral Presentation.**

Gonzales, J. F., Russian, C. J., Marshall, S. G., & Collins, K. P. Comparing the Effects of Rise Time and Inspiratory Cycling Criteria Between Four Different Mechanical Ventilators. **American Thoracic Society, Annual International Congress,** Denver Colorado. May 13-18, 2011. **Peer Reviewed International Poster Presentation.**

Gonzales, J. F., Marshall, S. G., & Russian, C. J.. The Relationship Between the Mallampati Scoring System and the Berlin and Epworth Scoring Systems. **American Association of Respiratory Care, 55th Annual International Congress**, San Antonio, TX, December 6th, 2009. **Peer reviewed International Poster Presentation.**

Gonzales, J. F., Marshall, S. G., Stokes, T. J., & Russian, C. J.. Critical Thinking Skills and Preferred Learning Styles of Respiratory Care Students. **American Association of**

Respiratory Care, 54th Annual International Congress, Anaheim, CA December 13, 2008 **Peer Reviewed International Poster Presentation.**

Gonzales, J. F., Marshall, S. G., Stokes, T. J., & Russian, C. J.. Critical Thinking Skills and Preferred Learning Styles of Respiratory Care Students, **Texas Society of Allied Health Professions**, El Paso, TX September 26, 2008. **Peer Reviewed State Oral Presentation.**

4. Abstracts:

Gonzales, J.F., Hudgins, A.M., Myers, D.L., Tufano, V.E., Russian, C.J., Trad, M.L. An Examination of a Student's Academic GRIT and Mental Wellness Throughout the Advancement of a Health Care Based Program, , **American Association for Respiratory Care International Congress.** November 7, 2024. **Refereed Abstract**

Hudgins, A.M., Gonzales, J.F., Myers, D.L., Tufano, V.E., Russian, C.J., Trad, M.L. An Examination of Academic GRIT and Personality Traits of Newly Admitted Respiratory Care Students, , **American Association for Respiratory Care International Congress.** November 7, 2024. **Refereed Abstract**

Russian, C.J., Gonzales, J.F. Comparison of a Peristaltic Suction Pump to Wall Suction Regulator as an Airway Clearance Device, **American Association for Respiratory Care International Congress.** November 7, 2024. **Refereed Abstract**

Showalter, V. Russian, C.J., & Ari, A. (2020). Student's perceived self-efficacy, expectations, barriers, and support in enrolling a master's degree program in respiratory care. Respiratory Care. Published.

Russian, C. J., Gonzales, J. F., Wharton, B. J., Corbitt, J., Barnes, M., Calderon, J., & Bowens, K. (2016). Difference in sleep parameters based on the recommended and alternative electrode placements according to the AASM scoring manual. American Association for Respiratory Care International Congress Open Forum Abstract. Respiratory Care, (Accepted, awaiting volume and issue number). #2532118. **Refereed Abstract.**

Russian, C. J., Collins, K. P., Gonzales, J. F., Flores, C., Moffitt, M., Holder, T., & Risner, B. (2016). A comparison of respiratory muscle strength measurements when using the medgraphics, pressure manometer and micro rpm. American Association for Respiratory Care International Congress Open Forum Abstract. Respiratory Care, (Accepted, awaiting volume and issue number). #2532109. **Refereed Abstract.**

Russian, C. J., Armstead, S. V., Gonzales, J. F., Collins, K. P., Alejandre, M., D'Abadie, D., Kowalski, M., & Ledezma, M. (2016). An assessment of the clinical learning environment from respiratory care students during internship rotations: a pilot study. American Association for Respiratory Care International Congress Open Forum Abstract. Respiratory Care, (Accepted, awaiting volume and issue number). #2532092. **Refereed Abstract.**

Russian, C. J. & Gonzales, J. F. (2012). Medication Compatibility: Implications for Combination Therapy. American Association for Respiratory Care International Congress Open Forum Abstract. *Respiratory Care*, 57(10), 1703. **Refereed Abstract.**

Russian, C. J. & Gonzales, J. F. (2012) The Assessment of Cuff Pressure Measurements Utilizing Three Clinical Techniques. American Association for Respiratory Care International Congress Open Forum Abstract. *Respiratory Care*, 57(10), 1714. **Refereed Abstract.**

Russian, C. J. & Gonzales, J. F. (2012) A Comparison of Oxygen Mask F_IO_2 Concentrations Using a Range of Tidal Volumes and Inspiratory Flowrates. American Association for Respiratory Care International Congress Open Forum Abstract. *Respiratory Care*, 57(10), 1750. **Refereed Abstract.**

Gonzales, J. F., Russian, C. J., Marshall, S. G., Farmer, T. (2011 May 15). Comparing the effects of rise time and inspiratory cycling criteria between four different mechanical ventilators. *American Journal of Respiratory and Critical Care Medicine,* 183, A1704. **Poster Presentation and Abstract Publication. Refereed.**

Russian, C. J., Gonzales, J. F., Martinez, A., Collins, K.P. (2011 October). Evaluating an alternative assessment of suction catheter size compared to the airway diameter. *Respiratory Care*, 56(10), A1660. **Poster Presentation and Abstract Publication. Refereed.**

Gonzales, J. F., Marshall, S. G., Russian, C. J., & Wharton, B. W. (2009). The relationship between the Mallampati Scoring System, the Berlin Questionnaire, and the Epworth Sleepiness Scale. *Respiratory Care*, 54(11), A1564. **Poster Presentation and Abstract Publication. Refereed.**

Gonzales, J. F., Marshall, S. G., Stokes, T. J., & Russian, C. J. (2008). Critical thinking skills and preferred learning styles of respiratory care students. *Respiratory Care*, 53(11), A1512. **Poster Presentation and Abstract Publication. Refereed.**

B. Works not in Print

1. Papers Presented at Professional Meetings:

Gonzales, J.F., Hudgins, A., Myers, D., Tufano, V., Russian, C.J., & Trad, M. An Examination of a Student's Academic GRIT and Mental Wellness Throughout the Advancement of a Health Care Based Program. **Department of Respiratory Care Research Forum, College of Health Professions.** Texas State University. April 12, 2023. **Peer Reviewed Regional Poster Presentation.**

Hudgins, A.M., Gonzales, J.F., Myers, D.L., Tufano, V.E., Russian, C.J., Trad, M.L. An Examination of Academic GRIT and Personality Traits of Newly Admitted Respiratory Care Students, **Department of Respiratory Care Research Forum, College of Health Professions.** Texas State University. April, 12, 2023. **Peer Reviewed Regional Poster Presentation.**

Gonzales, J.F. & Brown, D. (2018). The Effectiveness of Dual Bronchodilator Therapy in COPD Patients. **Department of Respiratory Care Research Forum, College of Health**

Professions. Texas State University. April 4, 2018. **Peer Reviewed Regional Poster Presentation.**

Gonzales, J.F. & Redding, A. (2018). Transpulmonary Pressures. **Department of Respiratory Care Research Forum, College of Health Professions.** Texas State University. April 4, 2018. **Peer Reviewed Regional Poster Presentation.**

Gonzales, J.F. & Baucum, N. (2018). Administration of Corticosteroids Prior to Preterm Delivery. **Department of Respiratory Care Research Forum, College of Health Professions.** Texas State University. April 4, 2018. **Peer Reviewed Regional Poster Presentation.**

Gonzales, J.F., Russian, C.J., Green, E., Carson, R., Farmer, E., & Jaramillo, J. Comparing Frequency Settings on the MetaNeb Airway Clearance Device. **Department of Respiratory Care Research Forum, College of Health Professions.** Texas State University. April 17, 2014. **Peer Reviewed Regional Poster Presentation**

Gonzales, J.F., Russian, C.J., Werner, K.R., DeCastro, J., Lobpries, K., & Wunderlich, K. Pressure Measurement Differences When Using IPV Therapy with Three Different Set-Up Configurations. **Department of Respiratory Care Research Forum, College of Health Professions.** Texas State University. April 17, 2014. **Peer Reviewed Regional Poster Presentation**

Gonzales, J. F., Russian, C. J., Barrows, B.V., Johnson, B., Rodriguez, S., & Rosenbaum, D. Comparing Pressure Measurement Differences with Various High Flow Nasal Cannula Devices. **Department of Respiratory Care Research Forum, College of Health Professions.** Texas State University. April 17, 2014. **Peer Reviewed Regional Poster Presentation**

Gonzales, J. F., Russian, C. J., Aguilar, A. N., Emery J., Gawlik B., Gonzales, G., Gordon, K., & Pantoja R. Assessing the Effects of Wrist Position on Perfusion Refill Time. **16th Annual Faculty Student Regional Research Forum, College of Health Professions.** Texas State University-San Marcos. April 10 – 13, 2012. **Peer Reviewed Regional Poster Presentation**

Russian, C. J., Gonzales, J. F., & Peacock, L. Medication Compatibility: Implications for Inhalation Therapy. **16th Annual Faculty Student Regional Research Forum, College of Health Professions.** Texas State University-San Marcos. April 10 – 13, 2012. **Peer Reviewed Regional Poster Presentation**

Russian, C. J., & Gonzales, J. F. Outlining the Results of Various Oxygen Mask FIO2 Concentrations While Using a Variety of Tidal Volumes and Inspiratory Flowrates. **16th Annual Faculty Student Regional Research Forum, College of Health Professions.** Texas State University-San Marcos. April 10 – 13, 2012. **Peer Reviewed Regional Poster Presentation**

Russian, C. J., Gonzales, J. F., Elford, L, & Lloyd, J. The Assessment of Cuff Pressure Measurements Utilizing Three Clinical Techniques. **16th Annual Faculty Student Regional Research Forum, College of Health Professions.** Texas State University-San Marcos. April 10 – 13, 2012. **Peer Reviewed Regional Poster Presentation**

Russian, C. J., & Gonzales, J. F. Allen Test: A Historical Literature Review and Recommendation. **16th Annual Faculty Student Regional Research Forum, College of Health Professions.** Texas State University-San Marcos. April 10 – 13, 2012. **Peer Reviewed Regional Poster Presentation**

Russian C. J., Gonzales, J. F., Martinez A., & Collins, K. P. Evaluating an Alternative Assessment of Suction Catheter Size Compared to the Airway Diameter. **15th Annual Faculty Student Research Forum, College of Health Professions,** Texas State University-San Marcos, March 21st – 25th, 2011. **Peer Reviewed Regional Poster Presentation.**

Gonzales, J. F., Marshall, S. G., & Russian, C. J. The Relationship Between the Mallampati Scoring System and the Berlin and Epworth Scoring Systems, **13th Annual Faculty Student Research Forum, College of Health Professions**, Texas State University-San Marcos, April 24th, 2009. **Peer Reviewed Regional Poster Presentation.**

Gonzales, J. F., Harkins, L., Cardenas, A., Caitlin, C., Hammond, L. & McCarty, J. Comparison of Lifestyle Choices Between Smokers and Non Smokers, **13th Annual Faculty Student Research Forum, College of Health Professions**, Texas State University-San Marcos, April 24th, 2009

Gonzales, J. F., Marshall, S. G., Stokes, T. J., & Russian, C. J. The Interactive Effects of Clinical Simulation Exam Practice with Critical Thinking Skill Development and Preferred Learning Styles, **12th Annual Faculty Student Research Forum, College of Health Professions**, Texas State University-San Marcos, April 25, 2008. **Peer Reviewed Regional Oral Presentation.**

2. Invited Talks, Lectures, and Presentations:

Gonzales, J. F., Russian, C. J., Marshal, S. M., & Collins, K. P. Comparing the Effects of Inspiratory Cycling Criteria Between Four Different Mechanical Ventilators. **Texas Society of Respiratory Care.** Collin College, Plano, TX, April 13, 2012.

Gonzales, J. F. Introduction to the Patient Assessment, Seton Medical Center, Austin, TX, March 19, 2009

Gonzales, J. F. The Role of a Respiratory Therapist, Texas State University – San Marcos, Department of Health Information Management. October 27th, 2008.

Gonzales, J. F. Ideal Tidal Volume Ranges for Mechanically Ventilated Patients, Victoria College, Victoria, TX, March 7, 2008

Gonzales, J. F. Current Practice in Adult Critical Care, **Texas Society of Respiratory Care Symposium**, Seton Medical Center, Austin, TX, November 30, 2007. **Peer Reviewed State Oral Presentation.**

5. Other Works not in Print:
a. Works "submitted" or "under review"

b. Works "in progress"

C. Grants and Contracts

1. Funded External Grants and Contracts:

Russian, C. J., Marshall, S. G., Gonzales, J. F. The relationships between a sleep-disordered breathing questionnaire, the Epworth sleepiness scale and measurements of respiratory muscle strength. *Texas Society of Allied Health Professionals: Research and Innovative Practice Grant*. Submitted spring 2013. **Accepted September 2013. Awarded amount: $1500.00**

Russian, C. J. (PI) and Gonzales, J. F. (Co-PI). Assessment of ventilator data prior to and during endotracheal tube obstruction. *Texas Society of Allied Health Professionals: Research and Innovative Practice Grant*. Submitted spring 2012. **Accepted September 2012. Awarded amount: $1500.00**

2. Submitted, but not Funded, External Grants and Contracts:

Rodrigues, Nathan Andrew (Principal), Gonzales, Joshua Fidel (Co-Principal). Online Library Resource Grant, Alkek Library, Texas State University, $11, 983.50 (Submitted: February 12, 2018). Grant.

Gonzales, J. F. (PI), Russian, C. J. (Associate PI). (May 2014). Comparing the Effects of Elevation Training Masks Versus PowerLung Breathing Trainers through Transcutaneous PO2 Measurements and Pulmonary Function Testing. Texas Society of Allied Health Professions. Requested amount: $1,329.89.

2009 PI-Gonzales, J. F.. The NBRC/ AMP H. Frederic Helmolz, Jr., MD Educational Research Endowment, American Respiratory Care Foundation. Amount requested: $2,882.00 Submitted 6/15/09

3. Funded Internal Grants and Contracts:

2014 PI Collins, K.P. Associate-PI- Gonzales, J.F. Comparison of Three High-Flow Oxygen Delivery Devices. Research Enhancement Grant: $13,867.00. Awarded full amount.

2012 PI Russian, C.J. Associate-PI- Gonzales, J.F. The Relationship Between a Sleep Disordered Breathing Questionnaire, the Epworth Sleepiness Scale and Measurements of Respiratory Muscle Strength. Texas Society of Allied Health Professions. Amount Requested: $1,495.00. Submitted. Awarded full amount.

2011 PI Henry, N. R., Associate-PI- Gonzales, J. F. Determining Suction Catheter Size for Endotracheal Suction: A Comparison of Endotracheal Tube Size to Suction Catheter Ratios. Research Enhancement Grant: Request $16,000.00 Submitted 10/11/11. Awarded full amount.

2011 PI-Gonzales, J. F., Associate-Russian, C. J. The Use of Clinical Simulation Videos to Enhance Simulation Practice. Requested amount: $ 1,169.00 Submitted 10/12/11. Awarded full amount.

2009 PI-Gonzales, J. F., Associate PI-Russian, C. J. Improvement of Critical Thinking Skills of Respiratory Care Students. Library Grant: Amount requested: $2,535.00. Submitted 10/6/08. Awarded full amount.

2009 PI-Gonzales, J. F., Associate-PI- Stokes, T. J. College of Health Professions Monitor Upgrade. Computing Resources Proposal: Request amount $3024.00. Submitted 1/26/09

4. Submitted, but not Funded, Internal Grants and Contracts:

2010 PI-Gonzales, J. F. Comparing Self-Inflating and Anesthesia Bags with Variable Flowrates and Respiratory Rates. Research Enhancement Grant: Request amount $6,885.00 Submitted 10/12/10

2008 PI-Gonzales, J. F., Associate PI- Stokes, T. J. Critical Thinking Skills and the Preferred Learning Styles of Respiratory Care Students. Research Enhancement Grant: Request amount $8,027.00 Submitted 10/1/08

2012 PI-Russian, C. J., Associate PI Gonzales, J. F. Online Resources Library Grant Proposal #03-357-483. Requested Amount: $36,470.00

D. Fellowships, Awards, Honors:

Outstanding Benchtop Research Award. Department of Respiratory Care, Texas State University-San Marcos, Fall 2010

Nominated by RT Magazine for Best of 2011 in the Profession of Respiratory Care

Respiratory Therapy: The Journal of Pulmonary Technique, Editorial Advisory Board Member, June 2011- Present

IV. SERVICE

A. Institutional

1. University:
Bobcat Days/University Exchange, Fall 2007 - 2022
Health Careers Job Fair, Faculty Representative, Fall 2007 - 2017
Reach for the Stars Campaign, 2007-2022

2. College:

Texas State University, Physical Therapy Faculty Search Committee, 2015-2016. Committee member. Appointer by Dean Welborn. Primary responsibility to evaluate candidates for tenure track position in the Department of Physical Therapy.

CHP Budget Committee, 2022-2023
CHP Student Scholarship Committee, 2007-2009
CHP Student Scholarship Committee, Committee Chair, 2010 - Current
CHP Computer Resources Committee 2007 – 2012
CHP Research Forum Committee 2009
Commencement Speaker Selection 2007
Clinical Laboratory Science Faculty Search Committee, 2014
Physical Therapy Faculty Search Committee, 2015
Student Assessment and Course Instruction Committee, 2015
Task Force for Student Assessment of Course and Instruction Evaluation Form, 2015

3. Department/School:
RC Faculty Search Committee, 2017-2021
RC Faculty Search Committee Chair, 2021
RC Scholarship Committee, 2007 - Current
RC Student Selection Committee, 2007 - Current
RC Medical Advisory Committee, 2007 – Current
Lambda Beta Society: National Honor Society for Respiratory Care. Faculty Sponsor/ Charter Member 2008-Current
Respiratory Care Student Association, Faculty Sponsor 2010-2012

B. Professional:
Texas Society for Respiratory Care, Chair, Sleep Medicine, 2013-2015
Texas Society for Respiratory Care, Active Member, 2006-present
American Association of Respiratory Care, 2007 - Current
Texas Society of Allied Health Professions, 2007- Current
National Board for Respiratory Care
Registered Respiratory Therapist, RRT
Neonatal and Pediatric Specialist, NPS
Round Table Group, Inc., consultant
Respiratory Care Practitioner, RCP, Texas
Staff Therapist, Warm Springs Rehabilitation Hospital, Kyle TX, 2014-Present
Advanced Cardiac Life Support (ACLS) Provider Card
Pediatric Advance Life Support (PALS) Provider Card
Neonatal Resuscitation Provider Card (NRP)
Basic Life Support Provider Card (BLS**)**

1. Manuscript Review
Reviewer of manuscript for the Journal of Respiratory Care. Manuscript Title: Tracheostomy Tube Type and Inner Cannula Selection Impacts Pressure and Resistance to Airflow. August, 2015.
Reviewer of manuscript for Journal of Respiratory Care. Manuscript Title: Short Term High Pressure Support Ventilation Benefits the Patient in Sudden-Onset Stubborn Rapid Breath. June, 2011.

C. Community:
Bobcat Build, 2009 - 2011