

CURRICULUM VITAE

GUILLERMO GUTIERREZ, MD, PhD

PRESENT POSITION: Professor of Medicine, Anesthesiology, Engineering and Applied Sciences
Director, Division of Pulmonary, Critical Care and Sleep Medicine
The George Washington University Medical Center
2150 Pennsylvania Avenue, N.W., Suite 8-404, Washington, D.C.
Phone: 202-741-2180 | ggutierrez@mfa.gwu.edu

CITIZENSHIP: United States of America.

EDUCATION:

1964 –1968 Bachelor of Engineering, Mechanical Engineering. City College of New York, June 1968
1969 – 1970 Master of Mechanical Engineering. University of Dayton, December 1970
1971 – 1977 Doctor of Medicine. Case Western Reserve University, Cleveland June 1977
1971 – 1978 Ph.D. Biomedical Engineering. Case Western Reserve University, Cleveland, August 1978
1976 – 1977 Visiting Scholar. Pulmonary Division. Charing Cross Medical School, London, UK
1978 – 1981 Resident; Department of Internal Medicine. University of Michigan, Ann Arbor, Michigan
1981 – 1983 Fellow; Pulmonary and Critical Care Division. University of Michigan, Ann Arbor, Michigan
1996 – 1997 Sabbatical year. Green College (now Green Templeton College), Oxford University UK

ACADEMIC APPOINTMENTS

At the University of Texas Health Science Center at Houston

1983 – 1989 Assistant Professor - Internal Medicine Dept.
1985 –1990 Fellowship Program Director. Pulmonary and CCM
1989 - 1992 Associate Professor with Tenure - Internal Medicine
1990 - 1997 Director, Pulmonary/Critical Care Medicine Division
1992 - 2001 Professor of Medicine with Tenure
1994 - 2001 Professor of Integrative Biology
1999 - 2001 Professor of Health Informatics

At Rice University, Houston, Texas

1991 - 2001 Adjunct Professor, Department of Engineering

At The George Washington University, Washington, D.C.

2001 - 2010 Fellowship Program Director. Pulmonary and CCM
2001 – Present Professor of Medicine and of Anesthesiology with Tenure
2001 – Present Director, Pulmonary and Critical Care Medicine Division
2011 – Present Professor of Engineering and Applied Sciences

HOSPITAL APPOINTMENTS

At Hermann Hospital, Houston, Texas (University of Texas Health Science Center at Houston)

1983 - 1990 Medical Director - Medical Intensive Care Unit
1989 - 1997 Medical Director, Respiratory Therapy Services
1989 - 1997 Medical Director, Pulmonary Function Laboratory
1990 - 1997 Chief of Service, Pulmonary and Critical Care Medicine

At Lyndon B. Johnson General Hospital, Houston, Texas (University of Texas Health Science Center at Houston)

1990 - 1991 Medical Director, ICU and Respiratory Services
1990 - 1993 Chief of Service, Pulmonary and Critical Care Medicine

At The George Washington University Hospital, Washington, D.C.

2002 – 2004 Co-Director, Sleep Disturbances Laboratory
2001- Present Medical Director, Respiratory Therapy
2001 -Present Chief of Service, Pulmonary Medicine

BUSINESS POSITIONS

1968 – 1971 Research Engineer – General Motors Corp. Dayton, OH
1977 – 1978 Senior Scientist – General Motors Corp, Detroit, MI
1997 – 2001 Chairman and CEO, VistaLink Medical, Houston, TX
2007 – 2010 Board of Directors, The George Washington Univ. Medical Faculty Associates.

MEDICAL LICENSURES: District of Columbia (MD33276); Pennsylvania (MD458032); Virginia (0101231660)

AMERICAN MEDICAL BOARD CERTIFICATIONS

1979 - National Board of Medical Examiners
1982 - American Board of Internal Medicine
1984 - American Board of Internal Medicine, Pulmonary Disease
1989 - American Board of Internal Medicine, Critical Care Medicine

PAST AND PRESENT MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS

American College of Physicians	American Thoracic Society
American College of Chest Physicians	American Physiological Society
American Society for Clinical Investigation	American Lung Association
European Society of Critical Care Medicine	European Respiratory Society
Green College Society, Oxford University	Society of Critical Care Medicine
Southern Medical Association	International Society on Oxygen Transport to Tissue

HONORS AND AWARDS

General Motors Graduate Scholarship
Outstanding Young Engineer, Engineering Society of Detroit
House Officer Outstanding Research Award, U. of Michigan
American Lung Association National Research Fellowship
American Lung Association Career Investigator Award
University of Texas Health Sciences Center Dean's Teaching Award
University of Texas Health Sciences Center Excellence Teaching Award
Albert Nelson Marquis Lifetime Achievement Award
Alpha Omega Alpha Medical Honor Medical Society
Honorary Member – Venezuelan Critical Care Society
Honorary Member – Argentinean Critical Care Society
Elected to membership in the American Society for Clinical Investigation
Elected to Fellowship: American College of Physicians
American College of Chest Physicians
American Thoracic Society
Royal Society of Medicine

Listed in:

Who's Who in America
 Who's Who in Frontiers of Science and Technology
 America's Top Physicians

International Who's Who in Medicine
 Best Doctors in America
 The Washingtonian Top Doctors

UNITED STATES PATENTS AWARDED

US 7,181,260 B2 Apparatus and method for measuring myocardial oxygen consumption.
 US 8,573,207, B2 Method and system to detect respiratory asynchrony.

LANGUAGES – Fluent in written and spoken English and Spanish.

EDITORIAL POSITIONS

Editor-in-Chief: Journal of Critical Care. 1996-2001

Past and Present Editorial Board Membership

New Horizons; Society of Critical Care Medicine
 Internet Journal of Pulmonary Medicine
 International Journal of Critical Care
 American Journal of Critical Care

Journal of Applied Physiology
 Critical Care Medicine
 Critical Care

Book Editor: Tissue Oxygen Utilization. G. Gutierrez and J.L. Vincent Springer-Verlag. Berlin, 1991.

Guest Editor for scientific symposia:

New Horizons, Society of Critical Care Medicine, Volume 4, 1996.
 Seminars in Respiratory and Critical Care Medicine, Vol 20, Jan. 1999.
 Information Technology in the Practice of Critical Care Medicine. Crit Care Med Supplement, Volume 29, 2001.

Manuscript Reviewer for:

American Journal Respiratory CCM
 Annals of Internal Medicine
 Chest
 Clinical Intensive Care
 The European Respiratory Journal
 Journal of the American Medical Assoc.
 Journal of Clinical Investigation
 Kidney International
 Mathematical Biosciences
 Indian Journal of Intensive Care Medicine

Journal of Physiology
 Critical Care
 Critical Care Medicine
 Circulation
 Thorax
 Intensive Care Medicine
 Journal of Critical Care
 The Lancet
 Respiration Physiology
 IEEE Journal of Translational Engineering

NATIONAL GRANT REVIEW PANELS

NIH Special Study Section Site Visits
 John Sealy Memorial Endowment Fund
 Site Visitor for Critical Care Medicine, ACGME
 External Advisory Group. Lovelace Foundation

NHLBI Task Force on Research in Critical Care Medicine
 NIH Study Section; Respiratory and Applied Physiology
 American Lung Association Grant Review Committee

VISITING PROFESSORSHIPS:

Osler Chest Unit, Churchill Hospital, Oxford, England, November 1986
University of Rochester, Rochester, N.Y., May 1987
University of Pisa, Pisa, Italy, July, 1989
Albert-Ludwig-Univ. Freiburg, Germany, July 1989
University of Buenos Aires, Argentina, February 1990
Department of Anesthesiology and Critical Care Medicine, University of Pittsburgh, March 1991
Division of Pulmonary and Critical Care Medicine, Cedars- Sinai Medical Center, Los Angeles, California, June 1991
Rush Presbyterian-St. Luke's Medical Ctr., Chicago, Illinois, Dec. 1991
Albert Einstein College of Medicine, Bronx, New York, October 1992
Pulmonary and Critical Care Medicine Division, University of Kentucky, April 1993
University of Alabama at Birmingham, Division of Pulmonary and Critical Care Medicine, December 1993
University of California, Los Angeles, Wadsworth VAMC, Department of Medicine, June 1994
Tulane University Medical Center. Department of Medicine, New Orleans, Louisiana, December 1994
University of Utrecht, Utrecht, The Netherlands, 1996
Beth Israel Hospital/Harvard Medical School, Boston, MA, May 1997
Centro de Investigaciones Médico-Quirúrgica. University of Havana, Cuba May 1998
The University of Pittsburg, Anesthesiology Department, May 2002
University of Connecticut, Pulmonary and Critical Care Medicine Division, April 2005
University of Amsterdam, The Netherlands, 2011

SPONSORSHIP OF POSTDOCTORAL INTERNATIONAL RESEARCH FELLOWS:

Anthony Warley, MD, Osler Chest Unit, Oxford, United Kingdom 1984-1985
Carlo Marini, MD University of Pisa, Italy 1988-1989
Fernando Palizas, University of Buenos Aires, Argentina 1988-1989
Lovely Fotedar, Ph.D., The University of Texas Health Sciences Center. 1989-1990
Arnaldo Dubin, MD, PhD University of La Plata, Argentina. 1989
Norberto Silva, MD, University of Buenos Aires, Argentina 1989
Javier Hurtado MD, University of Montevideo, Uruguay 1989 (NIH Fogarty Fellow)
Marta Gutierrez, MD, Hospital de Clinicas, Montevideo, Uruguay 1990-1992
Ritva Kiiski, MD, Kuopio University Hospital, Finland 1992-1994
Juan Ronco, MD, University of British Columbia, Canada 1993- 1994
German Arbelaez, MD, Pontificia Universidad Javeriana, Colombia 1993- 1994
Karl Heinz Kopp, MD, Albert-Ludwigs Universitat, Freiburg, Germany 1993 - 1994
Dr. Chen Wang, MD, Beijing Red Cross, Chao-yang Hospital, Beijing, China 1994-1995
Dr. Gauri Shankar, MD, Parmarth Mission Hospital, Delhi, India 1995-1996
Hulya Turkan, MD (TUBITAK Fellow), Ankara, Turkey 2003- 2005
Katherine Rider, MD, London, England 2012 – 2015
Hatice Kaya, MD, Ankara, Turkey 2012 – 2015

r.

MEMBER OF PhD THESIS EXAMINING COMMITTEES

Dr. Jan Bakker, Faculty of Medicine. University of Utrecht, Utrecht, The Netherlands, 1994
Dr. Nohra Beltran. Universidad Autónoma de México. School of Engineering, 2006.
Dr. Arnaldo Dubin. Faculty of Medicine. University of Amsterdam, 2011.

I have supervised the training of nearly 200 Pulmonary and Critical Care Medicine Clinical Fellows at the University of Texas Health Science Center, Houston and at The George Washington University. I am also faculty advisor to senior Biomedical Engineering students at The George Washington University.

SUPERVISORY POSITIONS.

Director of the Pulmonary, Critical Care and Sleep Medicine Division both at the University of Texas Health Science Center, Houston and of The George Washington University, Washington, DC. These positions have entailed direct supervisory responsibilities over the Division's medical faculty and technical and administrative personnel. I am responsible for the Division's finances, including the creation the annual budget.

UNIVERSITY COURSES PRESENTLY TAUGHT AT THE GEORGE WASHINGTON UNIVERSITY

1. Pulmonary Outpatient Clinic: Ongoing, Supervision of Pulmonary Fellows.
2. Hospital Clinical Rounds: Didactic and practical teaching on diagnosis and treatment of hospitalized patients.
2. ECE 6486. Clinical Medicine for Engineers, Spring 2018,
3. CPR_AY1415, CPR Block – First Year Medical Class. Pulmonary Session, Spring 2018
4. CPR_AY1415, CPR Block – First Year Medical Class. Cardiovascular Session, Spring 2018
5. BME4925, Capstone Project - Biomedical Engineering, Spring 2018
6. PA 6112 Clinical Medicine I - Pulmonology Section, Physician Assistant Course. Fall 2017

PUBLICATIONS

Full reference and citations (over 7000) to the articles listed below may be found at:

https://scholar.google.com/citations?view_op=list_works&hl=en&user=ZtN2YH0AAAAJ&gmla=AJsN-F73BI-JqADOSeocL9htAgRHZb4QHD4xNyRX5gvNqASBJQrZevC0oslKBlpkY2Qq_2ce9_hm8pCvVH_mUqZ1rncIJMzDIS8kZWoc4klgBORm3JzZzgi-v0INRGpTnESobjCEWDbt

PEER REVIEWED PUBLICATIONS:

1. Gutierrez, G., Rotman, HH, Reid, CM., Dantzker, DR: Journal of Applied Physiology 58:558, 1985.
2. Dantzker, DR, Gutierrez, G: Respiratory Care. 30: 456-462, 1985.
3. D'Alonzo, GE, Gutierrez, G.: Journal of Respiratory Diseases, 6:47-58, 1985.
4. Bryan-Brown, CW, Gutierrez, G.: Anesthesiology and Intensive Care Medicine, 180:23-32, 1985.
5. Gutierrez, G., Warley, A.R., Dantzker, D.R.: Journal of Applied Physiology. 60:751-757, 1986.
6. Gutierrez, G.: Respiration Physiology. 63:79-96, 1986
7. Gutierrez, G., Pohil, R.J.: Journal of Critical Care. 1:45-53, 1986.
8. Kim EE, Pjura GA, Lowry PA, Gutierrez G.: J Nuclear Med 27:1038-1039, 1986
9. Gutierrez, G.: Annals of Internal Medicine 105:642, 1986.
10. Gutierrez, G.: Journal of Critical Care. 2:153-155, 1987.
11. Warley, A.R., Gutierrez, G.: Journal of Applied Physiology 64:1584-1590, 1988.
12. Gutierrez, G.: Advances in Experimental Medicine and Biology. 227:183-205, 1988.
13. Gutierrez, G., Pohil, R.J., Andry, J.M., Strong, R., and Narayana, P.: J Applied Physiology. 65:608, 1988.
14. Gutierrez, G., Pohil, R.J., and Strong, R.: Journal of Applied Physiology. 65:601-607, 1988.
15. Gutierrez, G., and Acero, A.: Archivos de Bronconeumologia. 8:174-179, 1988.
16. Gutierrez, G.: Pulmonary and Critical Care Update . 4:1-7, 1988.
17. Gutierrez, G., Lund, N., and Bryan-Brown, C.W.: Critical Care Clinics. 5:271-287, 1989.
18. Gutierrez, G., and Andry, J.: Critical Care Medicine. 17:72-83, 1989.
19. Gutierrez, G., and Andry, J.: Journal of Applied Physiology. 66:837-843, 1989.
20. Marini, C.E., Lodato, R.F., and Gutierrez, G.: Critical Care Clinics. 5:533-549, 1989.
21. Gutierrez, G., Pohil, R.J, and Narayana, P.: Journal of Applied Physiology. 66:2117-2123, 1989.
22. Gutierrez, G., Lund, N., Acero, A.L., and Marini, C.: Journal of Applied Physiology. 67: 1093-1099, 1990.
23. Gutierrez, G.: Critical Care Medicine. 18:464, 1990.
24. Gutierrez, G., Palizas, F., and Marini, C.: Chest 97: 975-982, 1990.
25. Gutierrez, G., Marini, C., Acero, A.L. and Lund, N.: Journal of Applied Physiology. 68: 2047-2053, 1990.
26. Gutierrez, G., Lund, N., and Palizas, F.: Chest. 99: 224-229, 1991.

27. Gutierrez, G.: Critical Care Medicine. 19:619-626, 1991.
28. Dantzker, R., Foresman, B., Gutierrez, G.: American Review of Respiratory Disease. 143: 675-679, 1991.
29. Doglio, G., Pusajo, J.F., Egurrola, M.A., Palizas, F., and Gutierrez, G.: Crit Care Medicine. 19: 1037, 1991.
30. Gutierrez, G.: Perspectives in Critical Care. 4:37-41, 1991.
31. Gutierrez, G., Bismar, H., Dantzker, D.R., and Silva, N.: Critical Care Medicine 20:451-457, 1992.
32. Gutierrez, G., Palizas, F., Doglio, G., et al: The Lancet 339: 195-99, 1992.
33. Hurtado, F.J., Gutierrez, M., Silva, N., Fernandez, E., Khan, A.E.: J Applied Physiology 72;1895-1901, 1992.
34. Gutierrez, G.: The Lancet. 340:1084-1085, 1992.
35. Pettigrew, L. C., Hazle, J.D., Ogletree, M.L. and Gutierrez G.: Neurological Research 14:00, 1992.
36. Clark, C.H. and Gutierrez, G.: American Journal of Critical Care 2:53-60, 1992.
37. Gutierrez, G.: Critical Care Medicine. 21:1263-1264, 1993.
38. Fiddian-Green, R.G., Haglund, U., Gutierrez, G., and Shoemaker, W.C.: Crit Care Med 21:S25-S31, 1993.
39. Gutierrez, G., Hurtado, F.J., Gutierrez, A.M. et al: Amer Rev Respir Disease. 148:1204, 1993.
40. Krachman SL, Lodato RF, Morice R, Gutierrez G, Dantzker DR.: Intensive Care Med. 20:130-7, 1994.
41. Gutierrez, G., Clark, C., Brown, S.D., Price, K., Ortiz, L.: Amer J Respir Crit Care Med. 149:324-329, 1994.
42. Gutierrez, G., Fernandez, E, Hurtado, J. et al: Journal of Applied Physiology. 76:2735-2741, 1994.
43. Brown, S.D., Gutierrez, G.: Chest. 106:1306-08, 1994.
44. Gutierrez, G, Vincent, JL.: Clinical Intensive Care. 4:300-301,; 1994.
45. Brown, SD, Gutierrez, G.: Chest, 106: 1306 – 1308, 1994.
46. Kiiski R, Fernandez E, Gutierrez G.: Oxygen Transport to Tissue XVI. Adv Exper Med Biol 361:574, 1994.
47. Gutierrez, G., Brown, S.D.: J Intensive Care Med. 10:34-44, 1995.
48. Gutierrez, G., Hurtado, F.J., and Fernandez, E.: Critical Care Medicine. 23:308-315, 1995
49. Brown, S.D., Gutierrez, G. The Lancet. 19, 346:456-457, 1995.
50. Abraham E, Wunderink R, Silverman H, et al: JAMA. 273:934-994, 1995.
51. Gutierrez, G., Oksenholt, R. L.: Reanimation Urgen. 5:238-242, 1996.
52. Gutierrez, G. and M. Wulf.: Intensive Care Med. 22:6-16, 1996.
53. Gutierrez, G.: Intensive Care Med. 22:1-2, 1996
54. Brown, S.D., Clark, C., Gutierrez, G.: Journal of Critical Care. 11:2-8, 1996.
55. Gutierrez, G., Khan, A.: Current Opinion in Critical Care. 2:193-198, 1996.
56. Gutierrez, G., Brown, S.D. New Horizons. 4:413-419, 1996.
57. Gutierrez, G., Kiiski, R., Fernandez, E., Lee, D.H.: Journal of Critical Care. 11:197-205, 1996.
58. Brown, S.D., Gutierrez, G.: Critical Care Clinics. 12:569-585, 1996.
59. Taylor, D.E., Gutierrez, G.: Critical Care Clinics. 12:1007-1018, 1996.
60. Gutierrez G.: Anaesthesia, Pain, Intensive Care and Emergency Medicine 191-202, 1996.
61. Taylor, D., Clark, C., Hainley, S., Gutierrez, G.: Journal of Critical Care. 12:208-213, 1997.
62. Gutierrez G.: Journal of Critical Care. 12:1-2, 1997.
63. Gutierrez G.: Journal of Critical Care. 12:49-50,1997.
64. Gutierrez G.: Anesthesiol Intensivmed Notfallmed Schmerzther. 33:S50-S51, 1998
65. Abraham E, Anzueto A, Gutierrez, G., et. al.: The Lancet 351:929-933, 1998.
66. Gutierrez G.: International Journal of Intensive Care. 2: 5, 1999.
67. Gutierrez G., Taylor D. Semin Respir Crit Care Med 20:17-27, 1999.
68. Gutierrez G.: Semin Respir Crit Care Med 20:11-15, 1999.
69. Gutierrez G.: Critical Care Medicine 28:2664-5, 2000.
70. Kofos, D., Gutierrez, G.: Critical Care Medicine 29: N143, 2001
71. Gutierrez G, Wulf ME.: Intensive Care 9:133-134, 2001
72. Gutierrez, G.: Critical Care Medicine 29:N144-N150, 2001.
73. Kapoor T, Gutierrez G.: Critical Care. 7:98-100, 2003.
74. Sibbald, W. J., Messmer, K. F. W., Fink, M. P., Gutierrez, G.: Respiratory Care 48:1049-1050, 2003.

75. Gutierrez G, Seneff M.: Int. J. Intensive Care 16:145, 2003.
76. Gutierrez, G.: Respiratory Care. 48:1049-1050; 2003.
77. Gutierrez, G.: Trauma 45: 2003.
78. Gutierrez, G: Amer. J. Respir. Crit. Care Med. 169:525-533, 2004.
79. Gutierrez G, Wulf-Gutierrez M., Reines HD.: Current Opinion in Anesthesiology. 17:107-117, 2004.
80. Gutierrez G, Reines HD, Wulf-Gutierrez M.: Critical Care 8:373-381, 2004.
81. Chawla LS, Zia H, Gutierrez G, Katz NM, Seneff MG, Shah M.: Chest 126:1891-1896, 2004.
82. Gutierrez G, Fuller SP.: Critical Care. 8:406-407, 2004.
83. Gutierrez, G.: Critical Care. 9:149-150, 2005.
84. Gutierrez G, Wulf-Gutierrez.: Int. J. Intensive Care 16: 5, 2005.
85. Gutierrez G, Chawla LS, Katz NM, Seneff MG, Zia H.: Critical Care 9:450-454, 2005.
86. Gutierrez G, Jain V.: Clinical Pulmonary Medicine Clinical Pulmonary Medicine 13:178-187, 2006.
87. Pollack SM, Gutierrez G, Ascensao: J. Am. J. Hematol. 81:634-638, 2006.
88. Gutierrez G.: Critical Care Medicine 33:2043-2048, 2005.
89. Gutierrez G, Wulf ME.: Critical Care Medicine 33:2235-2240, 2005.
90. Gutierrez G, Chawla L.: Chest 128: 1073 – 1075, 2005.
91. Gutierrez G.: Critical Care Medicine. 33:2247-2252, 2005.
92. Gutierrez G, Jha V.: Critical Care Medicine 34:1817-1818, 2006.
93. Gutierrez G, Jain V. SIRS, Med Trial Technique Quart. 43: 167-179, 2007.
94. Jha V, Gutierrez G, Otero RM, Rivers EP.: Chest. 131:1267-1269, 2007
95. Gutierrez G, Venbrux A, Ignacio E, et al: Critical Care. Critical Care 11:R44, 2007.
96. Gutierrez G, Comignani P, Huespe L, et al: Intensive Care Medicine 34:1662-1668, 2008.
97. Gutierrez G, Williams JD.: Critical Care. 13:176-177, 2009.
98. Jha VM, Lee-Llacer J, Williams J, Ubaissi H, Gutierrez G.: Cardiovasc Intervent Radiol. 33:739-743, 2010.
99. Ferrer G, Gutierrez G, Schwartz AM, Delaney MD.: J Bronchology Interv Pulmonol. 17:169-170, 2010.
100. Bloos F, Marshall JC, Dellinger RP, Vincent JL, Gutierrez G, et al: Critical Care. 15:R88, 2011.
101. Gutierrez G, Ballarino G.: Intensive Care Med. 37:1721-1722, 2011.
102. Gutierrez G, Ballarino GJ, Turkan H, et al: Critical Care. 15:R167, 2011.
103. Junker C, Gutierrez G.: Critical Care. 15:176, 2011.
104. Jha V, Gutierrez G.: Critical Care. 15:436, 2011
105. Gutierrez G, Das A, MD, Ballarino G, et al: Intensive Care Medicine. 39:1359-67, 2013.
106. Rider K, Kaya H, Gutierrez G.: Eurasian J. Pulmonology 17,117-118, 2015
107. Kaya H, Rider KE, Amdur RL, Wulf-Gutierrez M, et al: Heart Lung. 44:321-326, 2015.
108. Gutierrez G.: Annals of the American Thoracic Society. 13:160-161, 2016.
109. Kogan D, Jain A, Kimbro S, Gutierrez G.: Respiratory Care. 61:1033-1037, 2016.
110. Gutierrez G, Williams J, Alrehaili GA, et al: Physiological Reports Sep;4(17), 2016.
111. Jose A, Cramer AK, Davar K, Gutierrez G.: Lupus. 26:316-319, 2016.
112. Gutierrez G.: Critical Care. 20:291, 2016.
113. Williams J, McLean A, Ahari J, et al: J Intensive Care Med. doi : 10.1177/0885066617741435, 2017.

BOOK CHAPTERS

I have written 43 book chapters on the topics of oxygen transport, tissue bioenergetics, sepsis and critical care medicine.