

CURRICULUM VITAE

Name: Manuel G. COSIO

Date and Place of Birth: - omissis .

Citizenship: - omissis -

Education:

June 1959-October 1960	School of Sciences, University of Oviedo, Spain. Degree in Basic Sciences.
October 1960-June 1967	School of Medicine, University of Madrid, Spain. Degree in Medicine and Surgery. Honours in Medicine.
Summer 1965	Externship in Cardiology with Professor Soulier, Hôpital Broussais, Paris
July 1967-May 1968	Private practice in Internal Medicine and Pulmonary Diseases with Dr. J. G. Cosio
July 1968-June 1969 & July 1969-June 1970	Internship and first year Residency in Internal Medicine, Mount Sinai Hospital (University of Minnesota Hospitals)
July 1970-January 1972	Second and third years of Residency in Internal Medicine, University of Minnesota Hospitals, Minneapolis
Jan. 1972-Oct. 1973 (Jan. 1971-April 1971)	Sub-specialty training in Chest Diseases, University of Minnesota Hospitals. Director, Dr. Frank M. MacDonald.
August 1972	Two-week course in TB at the National Jewish Hospital, Denver, Colorado, under the direction of W. Lester.
September 1973	With Dr. Leroy Lapp at West Virginia University and Appalachian Laboratory for Professional Diseases.

Medical Certification:

September 1967	ECFMG
May 1975	LMCC
1981	CSPQ # 75-658

Specialty Certification:

June 1972	American Board of Internal Medicine
October 1974	American Board of Chest Diseases
November, 1980	Corporation Professionnelle des Médecins du Québec - Pneumology

Academic Appointments:

October 1973-July 1974	Chief, Department of Chest Medicine, National Institute of Silicosis, Oviedo, Spain. Consultant in Chest Diseases, Asturias General Hospital, Oviedo, Spain.
July 1974-July 1975	Lecturer, Department of Medicine, McGill University, Montreal, Canada
July 1974-July 1976	Research Fellow, Meakins-Christie Laboratories, Department of Medicine, McGill University. Research director: Dr. J.C. Hogg. Laboratory director: Dr. P.T. Macklem.
Sept. 1976-Dec. 1979	Director, Pulmonary Laboratories, V.A. Medical Center, Minneapolis, Minnesota, and Assistant Professor of Medicine, Department of Medicine, University of Minnesota.
Jan. 1980-Dec. 1983	Director, Pulmonary Laboratories, Royal Victoria Hospital and Montreal Chest Hospital Centre. Medical Director, Respiratory Technology, Royal Victoria Hospital. Associate Physician, Royal Victoria Hospital. Associate Professor, Department of medicine McGill University.

August 1983-Dec. 1983	Acting Director, Respiratory Division, Royal Victoria Hospital.
January 1984-2010	Director, Respiratory Division, Royal Victoria Hospital. Senior Physician, Respiratory Division, Department of Medicine, Royal Victoria Hospital.
June 1, 1984-2010	Associate Member, Nutrition and Food Science Centre, Faculty of Medicine, McGill University.
October, 1988-2010	Full Professor, Department of Medicine, Faculty of Medicine, McGill University.
September 1991-1994	Director, Respiratory Training Program, McGill University.
January 1995- 1998	Director, Respiratory Division and Montreal Chest Institute, Department of Medicine, Royal Victoria Hospital, McGill University.
November 1998-2010	Associate Member, Department of Pathology, Faculty of Medicine, McGill University.
November 1999-2010	Member in the Division of Experimental Medicine in the Department of Medicine.
January 16 th 2010	Emeritus Professor of Medicine, McGill University
January 2010 –Today	Research Director of the Respiratory Division of the Meackins- Christie laboratories and the Royal Victoria Hospital, McGill University

Honours, prizes, distinctions:

“Outstanding teaching” award, given by Medical and Respiratory residents in 1992 and 2007.

Canadian Best Doctor award in 2006.

Sociedad Espanola de Patologia Respiratoria (Honorary Member)

Sociedad Chilena de Patologia Respiratoria (Honorary Member)

Teaching activities:

Advanced Topics in Respiration (516-508B) 1/year - 2 hours (Honors Physiology students, graduate students and research fellows) – McGill Meakins-Christie Laboratories (1984-2010)

Advanced Applied Respiratory Physiology (516-507A) 1/year – 2 hours (Honors Physiology students, graduate students and research fellows) – McGill Meakins-Christie Laboratories (1980-2010)

Respiratory Pathophysiology: 2 hours, 5 times/year to medical; students (1980-2010)

Clinical Pathophysiology core teaching lectures: 1 hour twice monthly September to July. To Respiratory, Anesthesia and medical residents and medical students (1984-2010).

Internal Medicine clinical/bedside teaching: 2 hours twice weekly 1 month a year. To medical students and residents. (1980-2004)

Respiratory teaching rounds: (Didactic and bedside teaching). 3 hours daily 2 months a year. To Medical and Respiratory residents and Medical students. (1980-present)

Respiratory weekly teaching rounds: Organizer and Leader (1984-1998) Participant teacher (1998-present). To Respiratory and Medical residents, Radiology residents and Medical students.

Internal Medicine teaching rounds: Participant teacher. 1 hour weekly. (1980-2004)

The evaluation for lectures given were mostly in the 4.5/5 range.

Supervision of Postdoctoral Fellows since 1980:

-	Dr. R. Shiner	Israel	1980-1982
-	Dr. W. D. Kim	Korea	1981-1983
-	Dr. W. Vincken	Belgium	1982-1984
-	Dr. J. L. Stril	Mexico	1982-1984
-	Dr. D. Eidelman (MRC)	Canada	1982-1983
-	Dr. M. Saetta	Italy	1983-1985
-	Dr. S. Huang	China	1983-1984
-	Dr. W. Gibbons (ALA)	Canada	1985-1987
-	Dr. J. Marin-Trigo	Spain	1985-1986
-	Dr. M. Polverino	Italy	1986-1987
-	Dr. C. Tardif	France	1987
-	Dr. P. de Lucas	Spain	1987-1988
-	Dr. D. Small	Canada	1987-1988
-	Dr. J. Kimoff	Canada	1988-1989

-	Dr. G. Georgiadis	Greece	1988-1989
-	Dr. T. H. Cheong	Singapore	1988-1989
-	Dr. A. Izquierdo	Spain	1988-1989
-	Dr. I. Lichros	Greece	1989-1991
-	Dr. M. Charbonneau	Canada	1990-1991
-	Dr. H. Ma	China	1990-1992
-	Dr. J. Montserrat	Spain	1991-1992
-	Dr. E. Kosmas	Greece	1991-1992
-	Dr. A. Al-Askar	Saudi Arabia	1991-1992
-	Dr. A. Al-Shimemeri	Saudi Arabia	1991-1992
-	Dr. E-C. Zhu	China	1991-1993
-	Dr. I. Dimopoulou	Greece	1992-1993
-	Dr. W. S. Kim	Korea	1992-1993
-	Dr. R. Finkelstein (CLA)	Canada	1992-1994
-	Dr. S. Dial	Canada	1992-1993
-	Dr. S. Mehta	Canada	1992-1993
-	Dr. J. Majó (CLA)	Spain	1995-1997
-	Dr. D. Ramos (MRC)	Spain	1996-1997
-	Dr. F. Payo	Spain	1996
-	Dr. Yasutaka Takubo	Japan	1999
-	Dr. Yuma Hoshino	Japan	2002-2004
-	Dr. Rosa Maria Rivera	Mexico	2002
-	Dr. Ramon Marrades	Spain	2002
-	Dr. Mitsuaki Sekiya	Japan	2003-2005
-	Dr. Rafael Zenteno	Mexico	2003-2005

Graduate Students

-	Antony Turcotte	Masters Student	2002-2004
-	Salomon Cornejo	PhD Student	2003-2006
-	Adrienne Scott	Masters Student	2004-2006

Ph.D Thesis Director for:

-	Dr. W. Vincken	Belgium	1984-1987
-	Dr. J. Izquierdo	Spain	1988-1989

and Ph.D. Examiner for:

-	Dr. W. Vincken	Belgium	1987
-	Dr. P. De Vuyst	Belgium	1988
-	Dr. L. N. A. Willems	The Netherlands	1988
-	Mr. T. Du	Canada	1991
-	Dr. P.A. Gevenois	Belgium	1996

and M.Sc. Examiner for:

-	Mr. M. Vassilyadi	Canada	1987
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Editorial Activities:

- Associate Editor, current Opinion in Pulmonary Medicine.
- Assistant Chief Editor, European Respiratory Journal.
- Associate Editor Archivos de Neumologia
- Associate Editor Journal Of Chronic Obstructive Pulmonary Disease

Membership in Professional and Scientific Societies and Organizations:

Canadian Thoracic Society
Canadian Society for Clinical Investigation
Association Pulmonaire du Québec
American Thoracic Society
American Physiological Society
European Society for Clinical Investigation
European Society for Clinical Respiratory Physiology
Sociedad Espanola de Patologia Respiratoria (Honorary Member)
Sociedad Chilena de Patologia Respiratoria (Honorary Member)
European Respiratory Society

Administrative and Committee Experience:

- Member, Working Group - Guidelines for Pulmonary Function Laboratories, 1982.
- Member, Standards Committee, Canadian Thoracic Society
- Vice President, Executive Committee, Association des pneumologues de la province de Québec
- Member, Executive Committee, Department of Medicine, Royal Victoria Hospital, McGill University
- Vice President, Board of Examiners in Pneumology, Corporation professionnelle des médecins du Québec (Feb. 1985-April, 1992)
- Member of the Editorial Board, Current Opinion in Pulmonary Medicine and Critical Care, 1992.
- Secretary, Canadian Thoracic Society, 1993.
- Co-Chairman, ERS 1999 Congress in Madrid, 1997.
- Member of the Steering Committee of the COPD Tokyo Symposium, February 1998.
- Member of the Medical and Scientific Advisory Committee of the Alpha One Foundation, May 2000.

Guest Lectureships:

More than 100 invited lectures

Honours:

- June 1987 Honorary Member for the Spanish Society of Respiratory
Medicine (SEPAR).
- June 1992 Doctor Jules Arthur Peter Paré Award for the Best Teacher of the
Respiratory Division presented by the Respiratory Residents
- March 1993 Honorary Member, Chilean Society for Respiratory Diseases.
- May 2001 AHQ/Merck Frosst Medical Leadership Award - A new Approach
to Acute Respiratory Care: The Montreal Chest Institute Day
Hospital. Kevin Schwartzman, M.D.,MPH, Manuel G. Cosio,
M.D., Guylaine Duquette, MSc.
- November 2001 Invited guest speaker - Peter Macklem Lecture - Annual
conference, Association des pneumologues de la province de
Québec, Montreal, Quebec.
- September 2005 Honorary Member International Scientific Experts Panel, Instituto
de Salud Carlos III, Madrid, Spain.
- July 2006 Honorary Member – CIMERA Scientific Advisory Board,
CIMERA Fundacio Caubet-Cimera Illes Balears – International
Center for Advanced Respiratory Medicine, Mallorca, Spain.
- June 2007 Doctor Jules Arthur Peter Paré Award for the Best Teacher of the
Respiratory Division presented by the Respiratory Residents

Others:

Founder and organizer with Dr. R. Rodriguez-Roisin from the University of Barcelona, Spain, of the Curso Iberoamericano de Neumologia. Meetings organized in Spain (1990), Mexico (1992), Chile (1994), Venezuela (1996). This Course is sponsored by McGill University and the University of Barcelona.

Ad Hoc Grant Reviews for:

U.S. National Institute of Health
Medical Research Council of Canada
U.S. Veterans' Administration
B.C. Lung Association
Health and Welfare Canada
Association Pulmonaire du Québec
Fonds de la Recherche en Santé du Québec
NATO Scientific Affairs Division
Comision Interministerial de Ciencia y Tecnolgia, Spain

Ad Hoc Paper Reviews for:

American Journal of Respiratory & Critical Care Medicine
Sleep
Chest
Journal of Applied Physiology
The European Respiratory Journal
Thorax

Grants:

1. Studies of the Role of Airway Obstruction in the Pathogenesis of Emphysema. (1977)
Granting agency: U.S. Veterans' Administration.
Amount granted: \$40,000.00
2. Role of the Alveolar Macrophage in the Production of Emphysema. (1979)
Granting agency: U.S. Veterans' Administration.
Amount granted: \$97,000.00
3. Morphological Determinants of Functional Abnormalities and Cor Pulmonale in Chronic Obstructive Lung Disease. (1981-1983)
Granting agency: Medical Research Council of Canada.
Amount granted: \$75,000.00
4. Lung Morphometry in Smokers and Alpha-1 Antitrypsin Lungs. (April 1987-June 1989). Granting agency: Medical Research Council of Canada.
Amount granted: \$97,258.00
5. Morphology-function Correlation in Emphysema: Destruction and Inflammation. Bilateral Project. (1988)
Sponsored by: Italian National Research Council.
Amount granted: \$5,000.00 U.S.
6. Studies on Arousal Mechanisms in Obstructive Sleep Apnea. (1989)
Granting agency: Association Pulmonaire du Québec
Amount granted: \$3,000.00
7. Airway Reactivity Lung Inflammation and Lung Destruction in Smokers. (July 1989-June 1992).
Granting agency: Medical Research Council of Canada
Amount granted: \$156,625.00
8. Determination of Appropriate Criteria for the Treatment of Obstructive Sleep Apnea. (June 1990-December 1992)

- Granting agency: Fonds de la recherche en santé du Québec.
Amount granted: \$75,000.00
9. The Role of Alpha-1 Antiprotease Level, IgE and Inflammation in the Pathogenesis of Emphysema. (July 1992-January, 1993)
Granting agency: Medical Research Council of Canada
Amount requested: \$25,000.00
 10. Network Centres of Excellence (MRC)
Principal Investigator in the theme: "Morphology Function Relationships in COPD"
(1990-1994)
Amount granted: \$70,000.00 p.a.
 11. Costello Fund
Principal Investigator in the theme: "Pulmonary Emphysema"
(1996)
Amount granted: \$12,500.00 p.a.
 12. MRC/PMAC Health Program - Astra Pharma
Operating grant/Fellowship: "A novel animal model for pulmonary emphysema"
(1998-2000)
Amount granted: \$60,000.00 p.a.
 13. BAYER Inc.
Fellowship: "A novel animal model for pulmonary emphysema"
(1996-2000)
Amount granted:\$20,000 p.a.
 14. NIH
Operating grant (co-applicant with Dr. J.R. Hoidal): "Pulmonary emphysema: role of serine proteinases."
(1997-2002)
Amount \$275,700 US p.a.
 15. NIH
Operating grant (co-applicant with Dr. J.R. Hoidal):"Inflammation in the pathogenesis of COPD."
(2001-2005)
Amount \$335,000 US p.a.
 16. Alpha 1 Foundation Research Grant
Operating Grant "Genetic susceptibility to emphysema in mice"
(2001-2003)
Amount \$101,080 US p.a.
 17. Alpha One Foundation

- Salary support for Associate Researcher, Alexei Guerassimov
(1997-2002)
Amount \$33,000 US p.a.
18. MCI Research Institute (Fellowship)
Stipend for Fellow
(2001-2002)
Amount \$17,000
 19. MUHC Research Institute (Fellowship)
Stipend for Fellow
(2002-2003)
\$29,000
 20. Alpha One Foundation Research Grant
Operating Grant (Renewal) “Genetic susceptibility to emphysema in mice”
(2003-2004)
Amount \$100,000 US p.a.
 21. MUHC Research Institute (Fellowship)
Stipend for Fellow
(2003-2004)
Amount \$29,000
 22. Fonds de la recherche en santé Québec
Stipend for Graduate student
(2003-2004)
Amount \$15,000
 23. Merck Sharp & Dohme Research Laboratory
Research Agreement “Establishment and Validation of an Animal Model of
COPD”
(2003-2006)
Amount \$400,000
 24. MCI Research Institute (Fellowship)
Stipend for Fellow
(2004-2005)
Amount \$15,000
 25. The Lloyd Carr Harris Foundation (Operating Grant)
“An animal model for emphysema (alpha-1 deficient and non-deficient)
(2005-2009)
Amount \$90,000/yr.

Publications:

(2010)

Enclosure 1

PUBLICATIONS

Original articles:

1. **Cosio MG.** Supravalvular Aortic Stenosis. Boletin de la Catedra de Pedriatria de Madrid. 1965; 8:96.
2. **Cosio MG.** Gram Negative Pneumonias. V.A. Medical Center Grand Rounds Publication, August 1971.
3. Kronenberg RS, **Cosio MG**, Stevenson JE, Drage CW. The use of oral diazepam in patients with obstructive lung disease and hypercapnea. *Ann Intern Med* 1975; 83(1).
4. Fukuchi Y, **Cosio MG**, Kelly S, Engel LA. Influence of pericardial fluid on cardiogenic gas mixing in the lung. *J Appl Physiol* 1977; 42:5-12.
5. Roussos Ch, Fixley M, Genest J, **Cosio MG**, Kelly S, Martin RR, Engel LA. Voluntary factors influencing the distribution of inspired gas. *Am Rev Respir Dis* 1977; 116:457-467.
6. **Cosio MG**, Ghezzi H, Hogg JC, Corbin D, Loveland M, Dosman J, Macklem PT. The relations between structural changes in small airways and pulmonary function tests. *N Eng J Med* 1978; 298:1277-1281.
7. Montgomery MR, Casey PG, **Cosio MG**, Niewoehner DE. Pulmonary structure-function relationships following acute, low dosage oxidant exposure. *Arch Environ Health* 1979; 34:396-401.
8. Valls AA, **Cosio MG.** Periodic acid shift. Hematoxin phlox safranin. A new multipurpose stain. *Journal of Histotechnology* 1979; 2:104-105.
9. Fukuchi Y, **Cosio MG**, Murphy B, Engel LA. Intraregional basis for sequential filling and emptying of the lung. *Respir Physiol* 1980; 41:253-266.
10. **Cosio MG**, Hale KA, Niewoehner DE. Morphologic and morphometric effects of prolonged cigarette smoking on the small airway. *Am Rev Respir Dis* 1980; 122:265-271.
11. Hale KA, Niewoehner DE, **Cosio MG.** Morphologic change in the muscular pulmonary arteries: relationship to cigarette smoking, airways disease and emphysema. *Am Rev Respir Dis* 1980; 122:273-278.
12. Ernst P, Chen M-F, Wang NS, **Cosio MG.** Fatal pneumonia secondary to

- combined pneumocystis carinii and cytomegaloviral pneumonia in a Haitian man. *Can Med Assoc J* 1983; 128:1089-1091.
13. Vincken WG, Gauthier S, Dollfuss RE, Hanson RE, **Cosio MG**. Involvement of upper airway muscles in extrapyramidal disorders: A cause of airflow limitation. *N Eng J Med* 1984; 311:438-442.
 14. Vincken W, Gauthier S, Dollfuss RE, Hanson R, Darauay C, **Cosio MG**. Respiratory muscle involvement in Parkinson's disease. *N Eng J Med* 1984; 311:1516-7.
 15. Vincken W, **Cosio MG**. Clinical applications of high-frequency jet ventilation. *Intensive Care Med*. 1984; 10:275-280.
 16. Saetta M, Shiner RJ, Angus GE, Kim WD, Wang NS, King M, Ghezzi H, **Cosio MG**. Destructive Index: A measurement of lung parenchymal destruction in smokers. *Am Rev Respir Dis* 1985; 131:764-769.
 17. Saetta M, Ghezzi H, Kim WD, King M, Angus GE, Wang NS, **Cosio MG**. Loss of alveolar attachments in smokers: A morphometric correlate of lung function impairment. *Am Rev Respir Dis* 1985; 132:894-900.
 18. Vincken W, **Cosio MG**. Flow oscillations on the flow-volume loop: a nonspecific indicator of upper airway dysfunction. *Bull Eur Physiopathology Respir* 1985; 21:559-567.
 19. Passerini L, **Cosio MG**, Newman S. Respiratory muscle dysfunction after herpes zoster. *Am Rev Respir Dis* 1985; 132:1366-1367.
 20. Hakim T, King M, Wang CG, **Cosio MG**. Effect of chronic cigarette smoke exposure on pulmonary vasomotion in beagle dogs. *J Appl Physiol* 1985; 59:1815-1823.
 21. Wright JL, **Cosio MG**, Wiggs B, Hogg JC. A morphological grading scheme for membranous and respiratory bronchioles. *Arch Pathol Lab Med* 1985; 109:163-165.
 22. King M, Kelly S, **Cosio MG**. Alteration of airway reactivity by mucus. *Respir Physiol* 1985; 62:47-59.
 23. **Cosio MG**, Shiner RJ, Saetta M, Wang N-S, King M, Ghezzi H, Angus E. Alveolar fenestrae in smokers: relationship with light microscopic and functional abnormalities. *Am Rev Respir Dis* 1986; 133:126-131.
 24. Vincken W, Dollfuss RE, **Cosio MG**. Upper airway dysfunction detected by respiratory flow oscillations. *Eur J Respir Dis* 1986; 68:50-57.
 25. Picado C, Laporta D, Grassino A, **Cosio MG**, Thibodeau M, Becklake MR.

- Mechanisms affecting exercise performance in subjects with asbestos-related pleural fibrosis. *Lung* 1987; 165:45-57.
26. Vincken W, Guilleminault C, Silvestri L, **Cosio MG**, Grassino A. Inspiratory muscle activity as a trigger causing the airways to open in obstructive sleep apnea. *Am Rev Respir Dis* 1987; 135:372-377.
 27. Vincken W, Elleker MG, **Cosio MG**. Determinants of respiratory muscle weakness in stable chronic neuromuscular disorders. *Am J Med* 1987; 82:53-58.
 28. Vincken W, Elleker G, **Cosio MG**. Detection of upper airway muscle involvement in neuromuscular disorders using the flow-volume loop. *Chest* 1986; 90:52-57.
 29. DeSanctis GT, Kelly SM, Saetta MP, Shiner RJ, Stril JL, Hakim TS, **Cosio MG**, King M. Hyporesponsiveness to aerosolized but not infused methacholine in cigarette-smoking dogs. *Am Rev Respir Dis* 1987; 135:338-344.
 30. Eidelman D, Sami M, McGregor M, **Cosio MG**. Combination of theophylline and salbutamol for arrhythmias in severe COPD. *Chest* 1987; 91:808-812.
 31. Pollak PT, Vincken W, Munro IR, **Cosio MG**. Obstructive sleep apnea caused by hemarthrosis-induced micrognathia. *Eur J Respir Dis* 1987; 70:117-121.
 32. Vincken WG, Elleker MG, **Cosio MG**. Flow-volume loop changes reflecting respiratory muscle weakness in chronic neuromuscular disorders. *Am J Med* 1987; 83:673-680.
 33. Vincken W, Ghezzi H, **Cosio MG**. Maximal static respiratory pressures in adults: normal values and their relationship to determinants of respiratory function. *Bull Eur Physiopathol Respir* 1987; 23:435-439.
 34. King M, Wight A, DeSanctis D, El-Azab J, Phillips DM, Angus GE, **Cosio MG**. Mucus hypersecretion and viscoelasticity changes in cigarette-smoking dogs. *Experimental Lung Research* 1989; 15:375-389.
 35. Mitchell TH, **Cosio MG**, Magder SA, Marliss EB. Metabolic responses during and after incremental exercise in normal subjects. *Diabetes, Nutrition & Metabolism* 1989; 3:199-207.
 36. Eidelman D, Ghezzi H, Kim WD, **Cosio MG**. Pressure-volume curves in smokers: comparison with alpha-1 antitrypsin deficiency. *Am Rev Respir Dis* 1989; 139:1452-1458.
 37. Vincken W, **Cosio MG**. Reversibility of upper airway obstruction after levodopa therapy in Parkinson's disease. *Chest* 1989; 96:210-212.
 38. Deschamps A, Levy RD, **Cosio MG**, Marliss EB, Magder S. Effect of saline

- infusion on body temperature and endurance during heavy exercise. *J Appl Physiol* 1989; 66:2799-2804.
39. Mitchell TH, Abraham G, Magder SA, Wing S, **Cosio MG**, Deschamps A, Marliss EB. Intravenous bicarbonate and sodium chloride both prolong endurance during intense cycle ergometer exercise. *Am J Med Sc* 1990; 300:88-97.
 40. Eidelman D, Saetta MP, Ghezze H, Wang NS, Hoidal JR, King M, **Cosio MG**. Cellularity of the alveolar walls in smokers and its relation to alveolar destruction. Functional implications. *Am Rev Respir Dis.* 1990; 141:1547-1552.
 41. Eidelman DH, Bellofiore S, Chiche D, **Cosio MG**, Martin JG. Behavior of morphometric indices in pancreatic elastase-induced emphysema in rats. *Lung*, 1990; 168:159-169.
 42. Kimoff RJ, Cheong TH, **Cosio MG**, Guerraty A, Levy RD. Pulmonary denervation in humans. Effects on dyspnea and ventilatory pattern during exercise. *Am Rev Respir Dis* 1990; 142:1034-1040.
 43. Gibbons WJ, Levy RD, Nava S, Malcolm I, Marin JM, Tardif C, Magder S, Lisbona R, **Cosio MG**. Subclinical cardiac dysfunction in sarcoidosis. *Chest* 1991; 100:44-50.
 44. Malo J, **Cosio MG**, Laforge J, Kimoff RJ. Le syndrome des apnées obstructives du sommeil. *L'union Médicale* 1991; 120:458-462.
 45. Eidelman DH, Ghezze H, Kim WD, **Cosio MG**. The Destructive Index and early lung destruction in smokers. *Am Rev Respir Dis.* 1991; 144:156-159.
 46. Kim WD, Eidelman DH, Izquierdo JL, Ghezze H, Saetta MP, **Cosio MG**. Centrilobular and panlobular emphysema in smokers. Two distinct morphologic and functional entities. *Am Rev Respir Dis* 1991; 144:1385-1390.
 47. Kimoff RJ, **Cosio MG**, McGregor M. Clinical features and treatment of obstructive sleep apnea. *Can Med Assoc J* 1991; 144:689-695.
 48. Petrof BJ, Kimoff RJ, Levy RD, **Cosio MG**, Gottfried SB. Nasal continuous positive airway pressure during sleep facilitates respiratory muscle function in severe chronic obstructive lung disease. *Am Rev Respir Dis* 1991; 143:928-935.
 49. Charbonneau M, Falcone T, **Cosio MG**, Levy RD. Obstructive sleep apnea during pregnancy. Therapy and implications for fetal health. *Am Rev Respir Dis* 1991; 144:461-463
 50. Cheong TH, Sami M, Kimoff RJ, **Cosio MG**, Levy RD. Cardiac disturbances in patients with severe obstructive sleep apnea. Effect of nasal continuous positive airway pressure. *Am J Nonivas Cardiol* 1992; 6:47-54.

51. Deschamps A, Levy RD, **Cosio MG**, Marliss EB, Magder S. Tympanic temperature should not be used to assess exercise induced hyperthermia. *Clin J Sport Med* 1992; 2:27-32.
52. Small D, Gibbons W, Levy RD, de Lucas P, Gregory W, **Cosio MG**. Exertional dyspnea and ventilation in hyperthyroidism. *Chest* 1992; 101:1268-1273.
53. Levy RD, **Cosio MG**, Gibbons L, Macklem PT, Martin JG. Induction of sleep apnoea with negative pressure ventilation in patients with chronic obstructive lung disease. *Thorax* 1992; 47:612-615.
54. Marin JM, Hussain SNA, Gibbons WJ, Polverino M, Levy RD, **Cosio, MG** Relationship of resting lung mechanics and exercise pattern of breathing in patients with chronic obstructive lung disease. *Chest* 1993; 104:705-711.
55. Tousignant P, **Cosio MG**, Levy RD, Groome PA. Quality adjusted life years added by treatment of obstructive sleep apnea. *Sleep* 1994; 17:52-60.
56. Kimoff RJ, Cheong TH, Olha AE, Charbonneau M, Levy RD, **Cosio MG**, Gottfried SB. Mechanisms of apnea termination in obstructive sleep apnea: role of chemoreceptor and mechanoreceptor stimuli. *Am J Respir Crit Care Med* 1994; 149:707-714.
57. Saetta M, Kim WD, Izquierdo JL, Ghezzi H, **Cosio MG**. Extent of centrilobular and panacinar emphysema in smokers' lungs: pathological and mechanical implications. *Eur Respir J* 1994; 7:664-671.
58. Saetta M, Finkelstein R, **Cosio MG**. Morphological and cellular basis for airflow limitation in smokers. *Eur Respir J* 1994; 7:1505-1515.
59. Charbonneau M, Marin JM, Olha A, Kimoff RJ, Levy RD, **Cosio MG**. Changes in obstructive sleep apnea characteristics through the night. *Chest* 1994; 106:1695-1701.
60. Montón C, Montserrat JM, Parra O, Kimoff J, **Cosio MG**. Disminución del requerimiento del nivel de CPAP tras un tratamiento prolongado en pacientes con síndrome de apneas obstructivas durante el sueño. *Arch Bronchoneumol* 1994; 30: 385-389.
61. Finkelstein R, Ma H-D, Ghezzi H, Whittaker K, Fraser RS, **Cosio MG**. Morphometry of small airways in smokers and its relationship to emphysema type and hyperresponsiveness. *Am J Respir Crit Care Med* 1995; 152:267-276.
62. Siafakas NM, Vermeire P, Pride NB, Paoletti P, Gibson J, Howard P, Yernault JC, Decramer M, Higenbottam T, Postma DS, Rees J on behalf of the Task Force (including **Cosio MG**). ERS - Consensus Statement. Optimal assessment and management of chronic obstructive pulmonary disease (COPD). *Eur Respir J*

- 1995; 8:1398-1420.
63. Maroun MJ, Mehta S, Turcotte R, **Cosio MG**, Hussain SNA. Effects of physical conditioning on endogenous nitric oxide output during exercise. *J Appl Physiol* 1995; 79:1219-1225.
 64. Finkelstein R, Fraser RS, Ghezzi H, **Cosio MG**. Alveolar inflammation and its relation to emphysema in smokers. *Am J Respir Crit Care Med* 1995; 152:1666-1672.
 65. Hernandez P, Gursahaney A, Roman T, Schwartzman K, Donath D, **Cosio MG**, Levy RD. High dose rate brachytherapy for the local control of endobronchial carcinoma following external irradiation. *Thorax* 1996; 51:354-358.
 66. Gevenois PA, de Vuyst P, de Maertelaer V, Zanen J, Jacobovitz D, **Cosio MG**, Yernault J-C. Comparison of computed density and microscopic morphometry in pulmonary emphysema. *Am J Respir Crit Care Med* 1996; 154:187-192.
 67. Montserrat JM, Kosmas EN, **Cosio MG**, Kimoff RJ. Mechanism of apnea lengthening across the night in obstructive sleep apnea. *Am J Respir Crit Care Med* 1996; 154:988-993.
 68. Cala SJ, Sliwinski P, **Cosio MG**, Kimoff RJ. Effect of topical upper airway anesthesia on apnea duration through the night in obstructive sleep apnea. *J Appl Physiol* 1996; 81:2618-2626.
 69. Montserrat JM, Kosmas E, **Cosio MG**, Kimoff RJ. Lack of evidence for diaphragmatic fatigue over the course of the night in obstructive sleep apnea. *Eur Respir J* 1997; 10: 133-138.
 70. Koulouris NG, Dimopoulou I, Valta P, Finkelstein R, **Cosio MG**, Milic-Emili J. Detection of expiratory flow limitation during exercise in COPD patients. *J Appl Physiol*. 1997; 82 (3): 723-731.
 71. **Cosio MG**, Izquierdo JL, Finkelstein R, Sansores RH. Patofisiología de la disminución del flujo aéreo en fumadores: El papel de las vías aéreas pequeñas y del enfisema pulmonar. *Rev Inst Nal Enf Resp Méx* 1997; 10: 54-67.
 72. Baltzan M, Mehta S, Kirkham T.H., **Cosio MG**. Randomized Trial of prolonged chloroquine therapy in advanced pulmonary sarcoidosis. *Am J Respir Crit Care Med*.1999; 160:192-197.
 73. **Cosio MG**, Guerassimov A. Chronic obstructive pulmonary disease inflammation of small airways and lung parenchyma. *Am J Respir Crit Care Med* 1999; 160:S21-S25.
 74. Calverley PMA, Rennard S, Agusti AGN, Anthonisen N, Celli B, **Cosio MG**, MacNee W, Rodriguez-Roisin, Rossi A, Wanner A, Wouters E. Current and

- future management of acute exacerbations of chronic obstructive pulmonary disease. *Eur Respir Rev* 1999, 9:67; 193-205.
75. **Cosio MG**, Cosio Piqueras MG. Pathology of emphysema in chronic obstructive pulmonary disease. *Monaldi Arch Chest Dis* 2000, 55:2; 124-129.
 76. Majo J, Ghezzi H, **Cosio, MG**. Lymphocyte Population and Apoptosis in the lungs of smokers and their relation to emphysema. *Eur Respir J*, 2001; 17:946-953.
 77. **Cosio, MG**, Snider, GL. Chest computed tomography: Is it ready for major studies of chronic obstructive pulmonary disease? *Eur Respir J*, 2001; 17:1062-1064. (Editorial)
 78. Schwartzman K, Duquette G, Zaoude M, Dion MJ, Lagacé M-A, Poitras J, **Cosio MG**. Respiratory Day Hospital: Description, cost and impact of a novel approach to respiratory care. *Can Med Assoc J*, 2001; 165:1067-71.
 79. Cosio Piqueras MG, **Cosio MG**. Disease of the Airways in COPD. *Eur Respir J.*, 2001;18: suppl 34, 41s-49s.
 80. **Cosio MG**, Majo J, Cosio Piqueras MG. Inflammation of the airways and lung parenchyma in COPD. Role of the T cells. *Chest*, 2002; 121:160S-165S.
 81. Takubo Y, Guerassimov A, Ghezzi H, Triantafillopoulos A, Bates JHT, Hoidal J, **Cosio MG**. Alpha-1 antitrypsin determines the pattern of emphysema and function in tobacco smoke-exposed mice: parallels with human diseases. *Am J Respir Crit Care Med*, 2002; 166:1596-1603.
 82. Majo J, Cosio Piqueras MG, **Cosio MG**. Inflamacion de las vias respiratorias del parenquima pulmonar en la EPOC. El paper de las ceculas T. *Pulmon*, 2003, 1:36-43.
 83. Agusti A, MacNee W, Donaldson K, **Cosio MG**. Does COPD have an autoimmune component? *Thorax*, 2003; 58:832-834.
 84. Levy RD, Estenne M, Weder W, **Cosio MG**. Lung transplantation: beyond palliation. *Eur Respir J*, 2003; 22 (5): 721-722.
 85. Baraldo S, Saetta M, **Cosio MG**. Pathophysiology of the Small Airways. *Sem Resp Crit Care M*, 2003; 24 (5): 465-472.
 86. **Cosio MG**. Autoimmunity, T-cells and STAT-4 in the pathogenesis of COPD. *Eur Respir J*, 2004; 24: 3-5 (Editorial).
 87. Guerassimov A, Takubo Y, Turcotte A, Yamamoto M, Hoshino Y, Ghezzi H, Triantafillopoulos A, Whittaker K, Hoidal JR, **Cosio MG**. The development of emphysema in cigarette smoke exposed mice is strain dependent. *Am J Respir Crit*

Care Med. 2004;170:974-980.

88. Barnes PG, **Cosio MG**. Characterization of T Lymphocytes in Chronic Obstructive Pulmonary Disease. (Perspectives) *PloS Med* 2004;1:025-027.
89. Hamid Q, **Cosio MG**, Lim S. Inflammation and Remodeling in Chronic Obstructive Pulmonary Disease (COPD). *J Allergy Clin Immunol* 2004; 114:1479-1481.
90. Gutierrez C, Ghezzi RH, Abboud RT, **Cosio MG**, Dill JR, Martin RR, McCarthy DS, Morse JL, Zamel N. Reference values of pulmonary function tests for Canadian Caucasians. *Can Respir J* 2004; 11:414-424.
91. Reynolds PR, **Cosio MG**, Hoidal JR. Cigarette smoke-induced Egr-1 upregulates pro-inflammatory cytokines in pulmonary epithelial cells. *Am J Respir Cell Mol Biol.*, 2006; 35:314-9.
92. Novak JP, Kim S-Y, Xu J, Modlich O, Volsky DJ, Honys D, Slonczewski JL, Bell DA, Blattner FR, Blumwald E, Boerma M, **Cosio MG**, Gatalica Z, Hajduch M, Hidalgo J, McInnes RR, Miller III MC, Penkowa M, Rolph MS, Sottosanto J, St-Arnaud R, Szego MJ, Twell D, Wang C. Generalization of DNA microarray dispersion properties: microarray equivalent of t-distribution. *Biol Direct* 2006; 1:27.
93. **Cosio MG**. Looking at the Acinus with Function Tests. Can you Believe it? *Am J Respir Crit Care Med* 2006; 174:847-852. (Editorial)
94. Reynolds P, Kasteler S, **Cosio MG**, Sturrock A, Huecksteadt T, Hoidal J. RAGE: Developmental Expression and Positive Feedback Regulation by Egr-1 during cigarette smoke exposure in pulmonary epithelial cells. *Am J Physiol: Lung Cell Mol Physiol* 2008; 294:L1094-101.
95. Rivera RM, **Cosio MG**, Ghezzi H, Salazar M, Perez-Padilla R. Comparison of the lung morphology in COPD secondary to cigarette smoke and biomass smoke. *Int J Tuberc Lung Dis* 2008; 12:972-977.
96. Churg A, **Cosio MG**, Wright J. Mechanisms of cigarette smoke-induced COPD: Insights from animal models. *Am J Physiol: Lung Cell Mol Physiol* 2008;294:L612-31.
97. Wright JL, **Cosio MG**, Churg A. Animal Models Chronic Obstructive Pulmonary Disease. *Am J Physiol: Lung Cell Mol Physiol* 2008; 295:L1-15.
98. **Cosio MG**, Saetta M, Agusti A. Immunological Aspects of COPD (Review Article). *New Engl J Med* 2009; 360:2445-54.
99. Baraldo S, **Cosio MG**, Saetta M. For whom the “Alarm” Tolls. How we sense the danger of cigarette smoke and react to it. *Am J Respir Crit Care Med* 2010; 181:

879-882.

100. Zhu E, Ma H, Finkelstein R, Whittaker K, Ghezzi H, **Cosio MG**. A morphometric method to quantify and differentiate emphysema type. *Am J Respir Crit Care Med*, Submitted.
101. Takubo Y, Hirai T, Ghezzi H, **Cosio MG**, Bates JHT. Respiratory system and lung mechanics in mice before and after death. *Am J Respir Crit Care Med*, Submitted.
102. Takubo Y, Doell DM, Ghezzi H, Guerassimov A, Triantafillopoulos A, Hoidal J, **Cosio MG**. An automated technique for the measurement of the mean linear intercept (LM) in animals and humans. *Am J Respir Crit Care Med*, Submitted.
103. Takubo Y, Guerassimov A, Ghezzi H, **Cosio MG**. Cigarettes smoke-induced emphysema in mice with different haplotypes of MHC and alpha1-antitrypsin levels. *Am J Respir Crit Care Med*, Submitted
104. de Torres JP, Marín JM, Casanova C, Cote C, Carrizo S, Cordoba-Lanus E, Baz-Dávila R, Zulueta JJ, Aguirre-Jaime A, Saetta M, Cosio MG, Celli BR. Lung cancer in patients with chronic obstructive pulmonary disease-- incidence and predicting factors. *Am J Respir Crit Care Med*. 2011 Oct 15;184(8):913-9.
105. Cosio MG, Saetta M. Evasion of COPD in smokers: at what price? *Eur Respir J*. 2012 Jun;39(6):1298-303.
106. Ballarin A, Bazzan E, Zenteno RH, Turato G, Baraldo S, Zanovello D, Mutti E, Hogg JC, Saetta M, Cosio MG. Mast cell infiltration discriminates between histopathological phenotypes of chronic obstructive pulmonary disease. *Am J Respir Crit Care Med*. 2012 Aug 1;186(3):233-9.
107. Bazzan E, Saetta M, Turato G, Borroni EM, Cancellieri C, Baraldo S, Savino B, Calabrese F, Ballarin A, Balestro E, Mantovani A, Cosio MG, Bonecchi R, Locati M. Expression of the atypical chemokine receptor D6 in human alveolar macrophages in COPD. *Chest*. 2013 Jan;143(1):98-106.
108. Cosio MG, Cazzuffi R, Saetta M. Is chronic obstructive pulmonary disease a disease of aging? *Respiration*. 2014;87(6):508-12.
109. Baraldo S, Turato G, Lunardi F, Bazzan E, Schiavon M, Ferrarotti I, Molena B, Cazzuffi R, Damin M, Balestro E, Luisetti M, Rea F, Calabrese F, Cosio MG, Saetta M. Immune Activation in α 1-Antitrypsin-Deficiency Emphysema. Beyond the Protease-Antiprotease Paradigm. *Am J Respir Crit Care Med*. 2015 Feb 15;191(4):402-9.
110. Inhaled glucocorticoids and COPD exacerbations. Cosio M, Baraldo S, Saetta M.

N Engl J Med. 2015 Jan 1;372(1):92.

Chapters:

1. E. Niewoehner and **M.G. Cosio**. Chronic obstructive lung disease: the role of airway disease with special emphasis of the pathology of the small airways, in **THE LUNG**, an International Academy of Pathology Monograph. W.W. Thurlbeck, Ed., Baltimore: Williams and Wilkins Co., 1978.
2. J.C. Hogg and **M.G. Cosio**. The pathophysiology of small airways, in **SMALL AIRWAYS IN HEALTH AND DISEASE**. Proceedings of a Symposium, Copenhagen, 29-30 March, 1979. Excerpta Medica, 1979.
3. **M.G. Cosio**. Vía aérea superior, in **ENFERMEDADES RESPIRATORIAS: utilidad del laboratorio**, segunda edición. P. Ancic C, T.J.H. Clark (Eds) Camugraf Ediciones Científicas, Santiago, Chile. 1990 pp 60-76.
4. J. A. Barberà y **M. G. Cosio**. Correlación entre estructura y función, in **ENFERMEDAD PULMONAR OBSTRUCTIVA CRÓNICA**, Monografías Clínicas en Neumología 6. R. Rodríguez- Roisin, Ed. Barcelona: Ediciones Doyma, S.A. 1993. pp 17-31.
5. **M. G. Cosio**, J.L. Izquierdo, R. Finkelstein. Fisiopatología de la disminución del flujo aéreo en los fumadores. El papel de las pequeñas vías aéreas y del enfisema, in 1993 -LIBRO DEL AÑO - NEUMOLOGÍA 1993. M. Díaz-Rubio and J. L. Alvarez-Sala, Eds. Madrid: Saned 1993 Chapter 3, 49-70.
6. **M. G. Cosio**. Enfermedad pulmonar obstructiva crónica, in **TRATADO DE MEDICINA INTERNA**, Sección VI (NEUMOLOGIA). D.-J. L. Alvarez-Sala, Ed. Madrid: Editorial Medica Panamericana. 1993.
7. **M. G. Cosio**. Obstrucción localizada de la vía aérea. Atelectasia, in **TRATADO DE MEDICINA INTERNA**, Sección VI (NEUMOLOGIA). D.-J. L. Alvarez-Sala, Ed. Madrid: Editorial Medica Panamericana. 1993.
8. **M. G. Cosio**. Enfermedades obstructivas de las vías aéreas, in **TRATADO DE MEDICINA INTERNA**. FARRERAS-ROZMAN. 13ª Edición, C. Rozman, Ed. Barcelona: Doyma. 1993.
9. R. A. Finkelstein and **M. G. Cosio**. Disease of the small airways in smokers: smokers' bronchiolitis, in **DISEASES OF THE BRONCHIOLES**. G. R. Epler, Ed, New York: Raven Press, 1994 chap. 8, pp 115-137.
10. **M. G. Cosio** and J. Majó. Overview of the pathology of emphysema in humans, in **SURGERY FOR EMPHYSEMA - CHEST SURGERY CLINICS OF NORTH AMERICA**. Philadelphia: W. B. Saunders & Co. 1995 Vol. 5, pp 603-621.
11. J. Majó and **M. G. Cosio**. Nuevas perspectivas en la patogenia del enfisema, in

- Actualizaciones SEPAR, Barcelona. J. R. Prous, S.A. 1996, Vol. 2, pp 51-69.
12. **M. G Cosio** and M. Saetta. Normal airway structure, in ASTHMA. P. J. Barnes, M. M. Grunstein, A. Leff, A. J. Woolcock, Eds. Philadelphia: Lipincott-Raven 1997, Vol. 1, Chap. 14, pp 171-183.
 13. **M.G. Cosio**, D.H. Eidelman, J.G. Martin. The lung in transition from health to disease. Clinical Management of Chronic Obstructive Pulmonary Disease. T. Similowski, W.A. Whitelaw, J-P Derenne and C. L'Englant, Eds. Lung Biology in Health Disease series. Marcel Dekker, New York, N.Y., 2002, Vol. 165, Chap. 1, pp 1-22.
 14. **M.G. Cosio**. T-Lymphocytes. Monograph on COPD: In: Chronic Obstructive Pulmonary Disease. Cellular and Molecular Mechanisms. P.J. Barnes, Ed. Lung Biology in Health and Disease. Taylor & Francis Group, Boca Raton, FL., 2005, Vol. 198, Chap. 9, pp 205-252.
 15. **M.G. Cosio**, M. Saetta, H. Ghezzi, S. Baraldo. Structure-Function in COPD. In: The Physiologic Basis of Respiratory Disease, 1st edition, Hamid Q, Shannon J, Martin JG. Eds. B.C. Dekker Inc., Hamilton, ON, 2005, Chap. 10, pp 85-104.
 16. Barnes PJ, **Cosio MG**. Cells and Mediators of Chronic Obstructive Pulmonary Disease. Eur Resp Monograph: Management of Chronic Obstructive Pulmonary Disease. N.M. Siafakas, Ed. European Respiratory Society Journals Ltd. Sheffield, UK, 2006, Vol. 38, Chap. 8, pp 130-158.
 17. **Cosio MG**, Popper HH. Smoking-Related Lung Diseases. In: Molecular Pathology of Lung Diseases. Zander DS, Popper HH, Jagirdar J, Haque AK, Cagle PT, Barrios R, Eds. Springer Science + Business Media, New York, NY, 2008, Vol. 1, Sec. 7 Molecular Pathology of Other Nonneoplastic Pulmonary Diseases: Specific Entities, Chap. 49, pp 527-540.
 18. Martin JG, **Cosio MG**. The T lymphocyte in asthma and COPD. In: Asthma and COPD. Basic Mechanisms and Clinical Management, Second Edition. Barnes PJ, Drazen JM, Rennard SI and Thomson NC, Eds, Published by Elsevier, Chennai, India, 2009, Chap. 13, pp 157 – 172.

Invited Reviews:

1. Vincken WG, **Cosio MG**. Flow oscillations and the flow-volume loop: Clinical and physiological implications. Short Review. European Respiratory Journal 1989; 2, 543-549.
2. Martin, JM, Kimoff JR, and **Cosio MG**. Síndrome de apnea obstructiva del sueño y su tratamiento mediante presión positiva nasal continua. Revision. Archivos de bronconeumología 1991; 26, n 6:255-261.
3. **Cosio MG**, Levy RD. Recent Advances in The Year Book of Pulmonary Disease

1993. R. C. Bone and T. L. Petty, Eds. St. Louis. Mosby Year Book. 1993, pp 1-4.
4. **Cosio MG**, Izquierdo Alonso JL, Finkesltein R. Patofisiología de la disminución del flujo aereo en fumadores: el papel de las pequeñas vias aereas y del enfisema.
 5. **Cosio MG**, Factors associated with progression of COPD. ATS 1997. Annual meeting symposia highlights. (In press).
 6. **Cosio MG**, Neutrophils, Lymphocytes and Emphysema. Current Issues on Pulmonary Emphysema, Leiden University, Dr. L.N.A. Willems, Ed. Leiden 1997, pp 1-10.
 7. Cosio FB, **Cosio MG**, Anatomía Patológica. Relación, morfología y función. Clínicas Médicas de España, Madrid 1998, pp 35-59.

Contributor:

1. The health consequences of smoking: Chronic obstructive lung disease. A report of the Surgeon General. 1984. US Department of Health and Human Services. Office on smoking and health. Rockville, Maryland. 20857.
2. Siafakas NM, Vermeire P, Pride NB, Paoletti P, Gibson J, Howard P, Yernault JC, Decramer M, Higenbottam T, Postma DS, Rees J. (on behalf of the Task Force - **Cosio MG**, North American Advisor on Task Force). Optimal assessment and management of chronic obstructive pulmonary disease (COPD). Eur Respir J 1995; 8:1398-1420.

Special Collaborator:

Normativa sobre diagnóstico y tratamiento del síndrome de apnea obstructiva del sueño (SAOS), Recomendaciones SEPAR. Ediciones Doymna S.A. Barcelona. 1993.