

CURRICULUM VITAE

Norman H. Edelman, M.D.

June 1981

BIRTHDATE: May 21, 1937

BIRTHPLACE: New York City

SEX: Male

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MARRIED: June 1959
Ida Nadel

CHILDREN: Ages 19, 16, 14

HOME: 46 Greenway Terrace, Princeton, New Jersey 08540

PRESENT POSITION

Professor and Associate Chairman, Department of Medicine,
Rutgers Medical School, College of Medicine and Dentistry of
New Jersey.

Chief, Division of Pulmonary Diseases, Department of Medicine,
Rutgers Medical School, College of Medicine and Dentistry of
New Jersey.

Chief, Medical Service, Middlesex General Hospital, New Bruns-
wick, New Jersey.

Associate Dean for Research, Rutgers Medical School, College of
Medicine and Dentistry of New Jersey.

Adjunct Professor of Physiology and Biophysics, Rutgers Medical
School, College of Medicine and Dentistry of New Jersey.

Member of the Graduate Faculty in Physiology, Rutgers University.

Member of the Graduate Faculty in Biomedical Engineering, Rutgers
University.

EDUCATION

1953-1957 Brooklyn College, New York City, A.B.

1957-1961 New York University Medical School, New York City, M.D.
Honors: Alpha Omega Alpha, Founders Day Honors

TRAINING AND EXPERIENCE

1961-1963 Intern and Assistant Resident, N.Y.U. Medical Division, Bellevue Hospital, New York City.

1963-1965 Research Associate, National Institutes of Health, National Heart Institute, Gerontology Branch.

1965-1967 Visiting Fellow in Medicine and Advanced Research Fellow of the American Heart Association, Cardio-respiratory Laboratory, Columbia University College of Physicians and Surgeons, Presbyterian Hospital, New York City.

1967-1969 Research Associate, Cardiovascular Institute, Michael Reese Hospital and Medical Center, Chicago, Illinois.

1969-1972 Assistant Professor of Medicine, University of Pennsylvania; Medical Director, Respiratory Therapy Department and Chief, Pulmonary Diseases Outpatient Department, Hospital of the University of Pennsylvania.

1972-1975 Associate Professor of Medicine and Chief, Division of Pulmonary Diseases, Department of Medicine, Rutgers Medical School, College of Medicine and Dentistry of New Jersey.

SELECTED ORGANIZATIONS

American Society for Clinical Investigation; American Federation for Clinical Research; American Physiological Society; American Thoracic Society; American Heart Association; Fellow, American College of Physicians; Fellow, American College of Chest Physicians

BOARD CERTIFICATIONS

1969 Certified in Internal Medicine
1972 Certified in Pulmonary Diseases

SELECTED ADDITIONAL ACTIVITIES AND APPOINTMENTS

1963-1965 Visiting Lecturer in Physiology, University of Maryland, School of Medicine.

1967-1969 Visiting Lecturer in Physiology, University of Chicago, School of Medicine.

1971-1972 Consultant in Respiratory Physiology, Walter Reed Army Hospital, Washington, D.C.

Selected Activities and Appointments (cont'd.)

1973-1976 Health Professions Educational Advisory Council,
State of New Jersey.
1974- Member, Governing Council, New Jersey Thoracic
Society.
1975-1979 Member, Cardiovascular-Pulmonary Study Section
(CVA), National Institutes of Health.
1977 Member, Program Committee, Structure and Function
Assembly, American Thoracic Society.
1978- Member, Tuberculosis Advisory Council, State of
New Jersey.
1978 President, Eastern Section, American Thoracic
Society.
1979-1981 Councillor-at-Large, American Thoracic Society.
1981-1982 Chairman, Assembly on Respiratory Structure,
Function and Metabolism, American Thoracic Society.
1981-1982 Member, Program Committee, American Thoracic Society.
1981- Member, Editorial Board, Journal of Applied Physiology.

SELECTED MEDICAL SCHOOL, COLLEGE
AND HOSPITAL COMMITTEES

Executive Faculty Council
Admissions Committee
Academic Standing Committee
Vivarium Committee
Committee for the Protection of Human Subjects
Medical Therapeutics Committee
College-wide Faculty Advisory Committee for Computer Services
Faculty Advisory Committee for Planning School Expansion
College-wide Faculty Advisory Committee for Planning South Jersey
Medical School
College-wide Faculty Advisory Committee for Faculty Utilization
Study
Committee to Review Functional Alternatives to the Immediate
Development of a Teaching Hospital to be Constructed upon
the River Road Campus in Piscataway
Medical Board, Middlesex General Hospital
Joint Conference Committee, Middlesex General Hospital

BIBLIOGRAPHY

Papers:

1. Relationship between chest wall and pulmonary compliance and age. C. Mittman, N.H. Edelman, A.H. Norris and N.W. Shock, J. Appl. Physiol. 20:1211-1216, 1965.
2. The effects of cigarette smoking upon spirometric performance of community dwelling men. N.H. Edelman, C. Mittman, A.H. Norris, B.H. Cohen and N.W. Shock, Amer. Rev. Resp. Dis. 94:421-429, 1966.
3. Effects of respiratory pattern on age differences in ventilation uniformity. N.H. Edelman, C. Mittman, A.H. Norris and N.W. Shock, J. Appl. Physiol. 24:49-53, 1968.
4. Extravascular lung water in cor pulmonale. G.M. Turino, N.H. Edelman, R.M. Senior, E.C. Richards and A.P. Fishman, Bull. Physio-Path. Resp. 4:47-64, 1968.
5. Peripheral chemoreflexes in the regulation of breathing of high altitude natives. S. Lahiri and N.H. Edelman, Respir. Physiol. 6:375-385, 1969.
6. Blunted hypoxic drive to ventilation in subjects with life-long hypoxemia. S. Lahiri, N.H. Edelman, N.S. Cherniack and A.P. Fishman, Fed. Proc. 28:1289-1295, 1969.
7. Response of goats to acute, chronic and life-long hypoxia. N.H. Edelman, N.S. Cherniack, S. Lahiri and A.P. Fishman, Fed. Proc. 28:1223-1227, 1969.
8. Pattern of discharge of respiratory neurons during systemic vasomotor waves. N.S. Cherniack, N.H. Edelman and A.P. Fishman, Amer. J. Physiol. 217:1375-1383, 1969.
9. The effects of abnormal sympathetic nervous function upon the ventilatory response to hypoxia. N.H. Edelman, N.S. Cherniack, S. Lahiri, E. Richards and A.P. Fishman, J. Clin. Invest. 49:1153-1165, 1970.
10. The blunted ventilatory response to hypoxia in cyanotic congenital heart disease. N.H. Edelman, S. Lahiri, L. Braudo, N.S. Cherniack and A.P. Fishman, New Eng. J. Med. 282:405-411, 1970.
11. O₂ exchange across spleen during asphyxia. N.S. Cherniack, N.H. Edelman and A.P. Fishman, Amer. J. Physiol. 219:1585-1589, 1970.
12. Hypoxia and hypercapnia as respiratory stimulants and depressants. N.S. Cherniack, N.H. Edelman and S. Lahiri, Respir. Physiol. 11:113-126, 1970-71.

13. Experimental cardiogenic shock: Pulmonary performance after acute myocardial infarction. N.H. Edelman, H.J. Gorfinkel, S. Lluch, A. Gottschalk, L.J. Hirsch and A.P. Fishman, Amer. J. Physiol. 219:1723-1730, 1970.
14. Regulation of respiration in goat and its adaption to chronic and life-long hypoxia. S. Lahiri, N.S. Cherniack, N.H. Edelman and A.P. Fishman, Respir. Physiol. 12:388-403, 1971.
15. Control of cerebral blood flow in the goat; role of the carotid rete. N.H. Edelman, P. Epstein, N.S. Cherniack and A.P. Fishman, Amer. J. Physiol. 223:615-619, 1972.
16. Serial changes in CO₂ storage in tissues. N.S. Cherniack, P.G. Tuteur, N.H. Edelman and A.P. Fishman, Respir. Physiol. 16:127-141, 1972.
17. Ventilatory responses to transient hypoxia and hypercapnia in man. N.H. Edelman, P.E. Epstein, S. Lahiri and N.S. Cherniack, Respir. Physiol. 17:302-314, 1973.
18. Early detection of chronic pulmonary disease. N.H. Edelman, N.N. Stanley and A.P. Fishman, Prevent. Medicine 2:34-42, 1973.
19. The effect of anemia on the ventilatory response to transient and steady-state hypoxia. T.V. Santiago, N.H. Edelman and A.P. Fishman, J. Clin. Invest. 55:410-418, 1975.
20. Allergic bronchopulmonary aspergillosis - Evidence of limited tissue invasion. D.J. Riley, J.W. Mackenzie, W.E. Uhlman and N.H. Edelman, Amer. Rev. Resp. Dis. 111:232-236, 1975.
21. Control of breathing in uremia: Ventilatory response to CO₂ after hemodialysis. R.W. Hamilton, P. Epstein, L.W. Henderson, N.H. Edelman and A.P. Fishman, J. Appl. Physiol. 41:216-222, 1976.
22. Luft's syndrome: O₂ cost of exercise and chemical control of breathing. N.H. Edelman, T.V. Santiago and H.L. Conn, Jr., J. Appl. Physiol. 39:857-859, 1975.
23. Mechanism of the ventilatory response to carbon monoxide of unanesthetized goats. N.H. Edelman, T.V. Santiago and D. Doblar, Morphology and Mechanisms of Chemoreceptors, ed. A.S. Paintal, 1976.
24. Complications of the obesity-hypoventilation syndrome in childhood. D.J. Riley, T.V. Santiago and N.H. Edelman, Amer. J. Dis. Child. 130:671-674, 1976.
25. Respiratory complications of obesity. D.J. Riley and N.H. Edelman, Resp. Therapy 6:55-56, 1976.

26. Mechanism of the ventilatory response to carbon monoxide. T.V. Santiago and N.H. Edelman, J. Clin. Invest. 57:977-986, 1976.
27. Responses of asthmatic patients to aerosolized isoproterenol inhaled at different lung volumes. D.J. Riley, B.W. Weitz and N.H. Edelman, Amer. Rev. Resp. Dis. 114:509-515, 1976.
28. Effect of hypoxia on small vessel blood content of rabbit brain. H.R. Weiss and N.H. Edelman, Microvasc. Res. 12: 305-315, 1976.
29. Control of breathing during methadone addiction. T.V. Santiago, A.C. Pugliese and N.H. Edelman, Amer. J. Med. 62:347-354, 1977.
30. Blunted respiratory drive in congenital myopathy. D.J. Riley, T.V. Santiago, B. Schall and N.H. Edelman, Amer. J. Med. 63: 459-466, 1977.
31. Correlation between the ventilatory and cerebrovascular responses to inhalation of carbon monoxide. D.D. Doblar, T.V. Santiago and N.H. Edelman, J. Appl. Physiol.: Respirat. Environ. Exercise Physiol. 43(3):455-462, 1977.
32. Ventilatory responses to hypercapnia and hypoxia during continuous aspirin ingestion. D.J. Riley, B. Legaweic, T.V. Santiago and N.H. Edelman, J. Appl. Physiol.: Respirat. Environ. Exercise Physiol. 43:971-976, 1977.
33. The effects of inhalation of carbon monoxide on some aspects of neuromechanical ventilatory control. N.H. Edelman, T.V. Santiago and R. Chapman, in: The Regulation of Respiration During Sleep and Anesthesia, R.S. Fitzgerald, H. Gautier and S. Lahiri, ed., Plenum Press, 1978.
34. A microcomputer-based data acquisition and analysis system for CO₂ rebreathing studies. M.A. Goegelman, B.G. Min, D.R. Donchin, W. Welkowitz, T.V. Santiago and N.H. Edelman, Biotelemetry and Patient Monitg. 5:193-205, 1978.
35. Frequency domain analysis of O₂ stores during hypoxia in the goat. B.G. Min, D.D. Doblar, W. Welkowitz and N.H. Edelman, Ann. Biomed. Engrg. 6:352-366, 1978.
36. Effects of morphine on the ventilatory response to exercise. T.V. Santiago, J. Johnson, D.J. Riley and N.H. Edelman, J. Appl. Physiol.: Respirat. Environ. Exercise Physiol. 47:112-118, 1979.
37. The effects of graded reduction of brain blood flow on ventilation in unanesthetized goats. R.W. Chapman, T.V. Santiago and N.H. Edelman, J. Appl. Physiol.: Respirat. Environ. Exercise Physiol. 47:104-111, 1979.

38. Dynamic characteristics of cerebral blood flow response to sinusoidal hypoxia. D.D. Doblar, B.G. Min, R.W. Chapman, E.R. Harback, W. Welkowitz and N.H. Edelman, J. Appl. Physiol.: Respirat. Environ. Exercise Physiol. 46:721-729, 1979.
39. Enhanced responses to aerosolized bronchodilator therapy in asthma using respiratory maneuvers. D.J. Riley, R.T. Liu and N.H. Edelman, Chest 76:501-507, 1979.
40. Effects of graded reduction of brain blood flow on chemical control of breathing. R.W. Chapman, T.V. Santiago and N.H. Edelman, J. Appl. Physiol.: Respirat. Environ. Exercise Physiol. 47:1289-1294, 1979.
41. Ventilatory control in parents of victims of sudden-infant death syndrome. P.L. Schiffman, R.E. Westlake, T.V. Santiago and N.H. Edelman, N. Engl. J. Med. 302:486-491, 1980.
42. Prevention of collagen deposition following pulmonary oxygen toxicity in the rat by cis-4-hydroxy-L-proline. D.J. Riley, R.A. Berg, N.H. Edelman and D.J. Prockop, J. Clin. Invest. 65:643-651, 1980.
43. Interaction between chemical ventilatory drive and respiratory compensation for flow-resistive loading. D.D. Doblar, R.W. Chapman, T.V. Santiago and N.H. Edelman, Chest (Supplement) 77:297-298, 1980.
44. Respiratory consequences of methadone: The response to added resistance to breathing. T.V. Santiago, K. Goldblatt, K. Winters, A.C. Pugliese and N.H. Edelman, Amer. Rev. Resp. Dis. 122:623-628, 1980.
45. Brain hypoxia and control of breathing: Neuromechanical control. R.W. Chapman, T.V. Santiago and N.H. Edelman, J. Appl. Physiol.: Respirat. Environ. Exercise Physiol. 49:497-505, 1980.
46. Positional hypoxemia in unilateral lung disease. C. Remolina, A.U. Khan, T.V. Santiago and N.H. Edelman, N. Engl. J. Med. 304:523-525, 1981.
47. Respiratory flow-resistive load compensation during sleep. T.V. Santiago, A.K. Sinha and N.H. Edelman, Amer. Rev. Resp. Dis. 123:382-387, 1981.
48. Endorphins and control of breathing: Ability of naloxone to restore the impaired flow-resistive load compensation in chronic obstructive pulmonary disease. T.V. Santiago, C. Remolina, V. Scoles and N.H. Edelman, N. Engl. J. Med. 304:1190-1195, 1981.

49. Prevention of bleomycin-induced pulmonary fibrosis in the hamster by cis-4-hydroxy-L-proline. D.J. Riley, J.S. Kerr, R.A. Berg, B.D. Ianni, G.G. Pietra, N.H. Edelman and D.J. Prockop, Amer. Rev. Resp. Dis. 123:388-393, 1981.
50. The effect of positive end-expiratory pressure (PEEP) ventilation on cerebrospinal fluid pressure and cerebral blood flow. D.D. Doblar, T.V. Santiago, A.U. Khan, D.J. Riley and N.H. Edelman, Anesthesiology (in press).
51. Hypoxic arousal in the intact and carotid chemodenervated sleeping cat. J.A. Neubauer, T.V. Santiago and N.H. Edelman, J. Appl. Physiol.: Respirat. Environ. Exercise Physiol. (in press).
52. Brain hypoxia and control of breathing: Role of the vagi. R.W. Chapman, T.V. Santiago and N.H. Edelman, J. Appl. Physiol.: Respirat. Environ. Exercise Physiol. (in press).
53. Beta-aminopropionitrile prevents bleomycin-induced pulmonary fibrosis in the hamster. D.J. Riley, J.S. Kerr, R.A. Berg, B.D. Ianni, G.G. Pietra, N.H. Edelman and D.J. Prockop, Amer. Rev. Resp. Dis. (in press).

Contributions to Books:

1. Clinical aspects of the chemical control of breathing. N.H. Edelman and T.V. Santiago, in: Pulmonary Care, R.F. Johnston, ed, New York, Grune & Stratton, 1973, pp 51-64.
2. Chronic bronchitis and emphysema. N.H. Edelman, D.J. Riley and T.V. Santiago, in: Current Therapy, H.F. Conn, ed, W.B. Saunders, Philadelphia, 1977, pp 107-112.
3. The lungs and ventilation in uremia. N.H. Edelman, in: Pulmonary Diseases and Disorders, A.P. Fishman, ed, McGraw-Hill, New York, 1979, pp 1347-1356.
4. Cor Pulmonale. N.H. Edelman, in: Practice of Medicine, Vol. VI, Chapter 11, Harper and Row, 1979.
5. Brain blood flow and the control of breathing. N.H. Edelman, in: Handbooks of Physiology, Section 3: Respiration, Vol. IV, Control of Breathing, American Physiological Society (in press).
6. Contemporary Issues in Pulmonary Disease. N.H. Edelman (Series Editor), Churchill Livingstone (in preparation).
7. Contemporary Issues in Occupational Lung Disease. N.H. Edelman (Editor), Churchill Livingstone (in preparation).

Material Presented at Meetings and in Abstract Form:

1. The effect of age upon chest wall and pulmonary compliance. C. Mittman, N.H. Edelman, A. Norris and N.W. Shock, Fed. Proc. 23(1):466, 1965.
2. Non-uniform pulmonary ventilation. N.H. Edelman, C. Mittman, A. Norris and N.W. Shock, Fed. Proc. 24(1):466, 1965.
3. Pulmonary diffusing capacity measured by sequential steady-state and washout methods. C. Mittman, N.H. Edelman, and N.W. Shock, Fed. Proc. 25(1):325, 1966.
4. Abnormal ventilatory and circulatory response to hypoxia in familial dysautonomia. N.H. Edelman, E. Richards and A.P. Fishman, J. Clin. Invest. 46:1051, 1967.
5. Extravascular lung water in cor pulmonale. N.H. Edelman, R. Senior, G.M. Turino, E. Richards and A.P. Fishman, Circulation 36(11):101, 1967.
6. Ventilatory response to hypoxia in cyanotic congenital heart disease. N.H. Edelman, S. Lahiri, N.S. Cherniack, L. Braudo and A.P. Fishman, Clin. Res. 16:369, 1968.
7. Ventilatory response of unanesthetized goats to acute and chronic hypoxia. S. Lahiri, N.H. Edelman, N.S. Cherniack and A.P. Fishman, Fed. Proc. 27(2):328, 1968.
8. Role of the spleen in O₂ storage during asphyxia. N.S. Cherniack, N.H. Edelman, G. Longobardo and A.P. Fishman, J. Clin. Invest. 47:18a, 1968.
9. Role of the sympathetic nervous system in the ventilatory response to hypoxia. N.H. Edelman, N.S. Cherniack, S. Lahiri and A.P. Fishman, Proc. Internat. Union of Physiol. Sci. 7:122, 1968.
10. Rete mirabile of the goat. N.H. Edelman, C. Reiman, R. Pick and A.P. Fishman, Circulation, 38(6):69, 1968.
11. Distribution of pulmonary blood flow in an experimental model of cardiogenic shock. N.H. Edelman, S. Lluch, L. Hirsch, A. Gottschalk and A.P. Fishman, Circulation 38(6):70, 1968.
12. Respiratory adaptations to hypoxia. S. Lahiri, N.H. Edelman, N.S. Cherniack and A.P. Fishman, Clin. Res. 17:477, 1969.
13. Site of interaction in the ventilatory response to hypoxia and hypercapnia. N.H. Edelman, S. Lahiri, P. Epstein and N.S. Cherniack, Fed. Proc. 28:337, 1969.

14. Altitude acclimatization of ruminants and hypoxic sensitivity. S. Lahiri, N.S. Cherniack, N.H. Edelman and A.P. Fishman, Fed. Proc. 29:591, 1970.
15. The effects of hypoxia and hypercapnia on respiratory neuron activity and cerebral metabolism. N.S. Cherniack, N.H. Edelman, S. Lahiri, Aspen Emphysema Conference, 1970.
16. Acute buffering of CO₂ by tissues in vivo. N.S. Cherniack, N.H. Edelman, P.G. Tuteur and T.J. Trueb, J. Clin. Invest. 49:18a, 1970.
17. Brain energy metabolism limiting the ventilatory response to hypoxia and hypercapnia. N.H. Edelman, P.E. Epstein and N.S. Cherniack, Fed. Proc. 30:269, 1971.
18. Response rates of ventilation and cerebral blood flow to CO₂ in normal goats and abnormal man. N.H. Edelman, P.G. Tuteur, L. McHenry and N.S. Cherniack, Clin. Res. 19:510, 1971.
19. The effect of impairment of O₂ delivery on the aerobic metabolism of brain and skeletal muscle. N.H. Edelman, P.G. Tuteur, P.E. Epstein, N.S. Cherniack and A.P. Fishman, 14th Aspen Conference on Emphysema, 1971. Chest 61:495, 1972.
20. The effect of lung volume on respiratory drive during hypercapnia. P.G. Tuteur, P.E. Epstein, N.H. Edelman, and N.S. Cherniack, 14th Aspen Conference on Emphysema, 1971. Chest 61, 1972.
21. The transient ventilatory response to hypoxia and hypercapnia. N.S. Cherniack, T.J. Trueb, N.H. Edelman, S. Lahiri and A.P. Fishman, XXV International Congress of Physiological Sciences, 1971.
22. Ventilatory response to transient hypoxia in anemia. T.V. Santiago, and N.H. Edelman, Fed. Proc. 31:371, 1972.
23. Control of breathing in uremia: enhanced ventilatory response to CO₂ following hemodialysis. R. Hamilton, P.E. Epstein, L.W. Henderson, N.H. Edelman and A.P. Fishman, J. Clin. Invest. 51:41a, 1972.
24. Inapparent congenital myopathy presenting as chronic hypoventilation. N.H. Edelman, R. Daniele and T.V. Santiago, Amer. Rev. Resp. Dis. 105:984, 1972.
25. Stimulation of ventilation by carbon monoxide. T.V. Santiago, and N.H. Edelman, Clin. Res. 21:671, 1973.

26. Mechanisms of Cheyne-Stokes respiration. N.S. Cherniack, S. Lahiri, N.H. Edelman and A.P. Fishman, Clin. Res. 21:736, 1973.
27. Mechanism of the ventilatory response to carbon monoxide. T.V. Santiago and N.H. Edelman, Fed. Proc. 33:440, 1974.
28. Control of breathing during methadone addiction. T.V. Santiago and N.H. Edelman, J. Clin. Invest. 53:70a, 1974.
29. Pattern and predictability of O₂-induced hypercapnia in COPD. T.V. Santiago and N.H. Edelman, presented at the 1975 Annual Meeting of the American Thoracic Society.
30. Effects of morphine on the ventilatory response to exercise. T.V. Santiago, J. Johnson and N.H. Edelman, Clin. Res. 23(3):351A, 1975.
31. Circulatory determinants of CO-induced hyperventilation. D. Doblar, T.V. Santiago and N.H. Edelman, Fed. Proc. 34(3):430, 1975.
32. Role of carotid body, arterial and cisternal fluid pH in the acclimitization to chronic hypoxia. S. Lahiri, N.S. Cherniack, N.H. Edelman, and A.P. Fishman, The Physiologist 18:284, 1975.
33. Effect of morphine on the cerebral blood flow responses to hypoxia and hypercapnia. R.W. Chapman, T.V. Santiago, A.U. Khan, and N.H. Edelman, Fed. Proc. 35:719, 1976.
34. The generation of variable amplitude and frequency sinusoidal arterial PO₂ for frequency response analysis. D.D. Doblar, B.G. Min, E.R. Harback, W. Welkowitz, and N.H. Edelman, Proc. 29th ACEMB, 356, 1976.
35. Frequency analysis of the cerebral blood flow response to hypoxia. D.D. Doblar, R.W. Chapman, B.G. Min, W. Welkowitz, and N.H. Edelman, Fed. Proc. 36:439, 1977.
36. Effect of reduction of cerebral blood flow on the ventilatory response to hypoxia. R.W. Chapman, T.V. Santiago, and N.H. Edelman, Fed. Proc. 36:425, 1977.
37. Effects of reduction of cerebral blood flow on ventilation and ventilatory responsiveness to CO₂. T.V. Santiago, R.W. Chapman, and N.H. Edelman, Clin. Research 25:422A, 1977.
38. The effects of positive end-expiratory pressure ventilation (PEEP) on cisternal cerebrospinal fluid pressure and cerebral blood flow. T.V. Santiago, D.D. Doblar, A.U. Khan, D.J. Riley, and N.H. Edelman, Amer. Rev. Resp. Dis. 115(4, pt 2):159, 1977.

39. The dose-response relationship of asthmatics to isoproterenol at differing lung volumes. D.J. Riley, B.W. Weitz and N.H. Edelman, Amer. Rev. Resp. Dis. 115(4, pt II):369, 1977.
40. Ventilatory responses to hypercapnia and hypoxia during continuous aspirin ingestion. D.J. Riley, B. Legawiec, T.V. Santiago, and N.H. Edelman, Amer. Rev. Resp. Dis. 115 (4, pt II):369, 1977.
41. Role of brain blood flow in the control of breathing: Effects of flow limitation. N.H. Edelman, R.W. Chapman, and T.V. Santiago, 20th Aspen Lung Conference, 1977.
42. Effects of carbon monoxide on neuromechanical ventilatory control. R.W. Chapman, T.V. Santiago and N.H. Edelman, Fed. Proc. 37:530, 1978.
43. The cerebral blood flow response to CO₂ using frequency response analysis. D.D. Doblar, R.W. Chapman, M. Konwiser, B.G. Min, and N.H. Edelman, Fed. Proc. 37:873, 1978.
44. Role of the vagus in the respiratory response to brain hypoxia. R.W. Chapman, T.V. Santiago, and N.H. Edelman, Amer. Rev. Resp. Dis. 117(4, pt II):415, 1978.
45. Effect of acute and chronic methadone use on respiratory response to mechanical loading. T.V. Santiago, K. Goldblatt, K. Winters, A.C. Pugliese, and N.H. Edelman, Amer. Rev. Resp. Dis. 117(4, pt II), 1978.
46. Enhanced responses to aerosolized bronchodilator therapy in asthma using respiratory maneuvers. D.J. Riley, R.T. Liu, and N.H. Edelman, Chest 74:348A, 1978.
47. Abnormalities in control of breathing with inability to compensate for an inspiratory resistance in parents of sudden infant death syndrome (SIDS) victims. P.L. Schiffman, R.E. Westlake, T.V. Santiago, and N.H. Edelman, Clin. Res. 27: 493A, 1979.
48. The respiratory responses to continuous inspiratory flow-resistive loading of sleeping cats. T.V. Santiago, A.K. Sinha, and N.H. Edelman, Fed. Proc. 38:1299, 1979.
49. Use of a proline analogue to prevent deposition of collagen in acute oxygen lung injury in rats. D.J. Riley, N.H. Edelman, R.A. Berg, and D.J. Prockop, Amer. Rev. Resp. Dis. 119:353, 1979.
50. Interaction between chemical ventilatory drive and respiratory compensation for flow-resistive loading. D.D. Doblar, R.W. Chapman, T.V. Santiago, and N.H. Edelman. Presented at the 22nd Aspen Lung Conference, 1979. Chest (Suppl.) 77:297, 1980.

51. A microcomputer-based data acquisition and analysis system for CO₂ rebreathing studies. M.A. Goegelman, B.G. Min, D.R. Donchin, W. Welkowitz, T.V. Santiago and N.H. Edelman, Proc. 30th ACEMB.
52. Brain blood flow and ventilation during euoxic and hypoxic sleep. T.V. Santiago, E. Guerra, A.K. Sinha and N.H. Edelman, Clin. Res. 28:431A, 1980.
53. Hypoxic arousal in sleeping cats. J.A. Neubauer, T.V. Santiago and N.H. Edelman, Amer. Rev. Resp. Dis. 121(4, pt II):383, 1980.
54. Endorphins and control of breathing: Naloxone reverses the impaired flow-resistive load compensation in COPD. T.V. Santiago, C. Remolina, V. Scoles and N.H. Edelman, Amer. Rev. Resp. Dis. 123(4, pt II):211, 1981.
55. Regional brain blood flow during isocapnic hyperpnea induced by simulated exercise. J.A. Neubauer, D.A. Strumpf and N.H. Edelman, Fed. Proc. 40(3, pt I):567, 1981.
56. Effect of six weeks of protein deprivation on rat lung. J.S. Kerr, S. Lanza-Jacoby, D.J. Riley, R.A. Berg, N.H. Edelman and D.J. Prockop, Fed. Proc. 40(3, pt I):592, 1981.
57. Oxygen toxicity produces alveolar overdistension which progresses to emphysema. D.J. Riley, M.J. Kramer, J.S. Kerr, R.A. Berg, B.D. Ianni, N.H. Edelman and D.J. Prockop, Fed. Proc. 40(3, pt I):767, 1981.
58. Beta-aminopropionitrile administration prevents lung mechanical changes and increased lung collagen content in the bleomycin-treated hamster. D.J. Riley, J.S. Kerr, R.A. Berg, B.D. Ianni, N.H. Edelman and D.J. Prockop, Amer. Rev. Resp. Dis. 123:221, 1981.
59. Beta-aminopropionitrile administration inhibits lung collagen accumulation produced by oxygen toxicity in the rat. D.J. Riley, M.J. Kramer, J.S. Kerr, R.A. Berg, B.D. Ianni, N.H. Edelman and D.J. Prockop, Clin. Res. 29:451A, 1981.