

CURRICULUM VITAE

Alexander Francis ROCHE

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DATE OF BIRTH: October 17, 1921

MARITAL STATUS: Married to Eileen M. Roche (French), three children

CITIZENSHIP: United States, 1985

PRESENT POSITION: Fels Professor of Community Health and Fels Professor of Pediatrics
Wright State University School of Medicine

DETAILS OF EDUCATION

1938: Matriculated, University of Melbourne

1939: Leaving honours in English, French, Latin and European History
University College Scholarship (Newman College)

1940: Completed first year B.A. (Hons.), University of Melbourne

1941-1946: Medical course, University of Melbourne

1950-1954: Ph.D. student

1952-1953: Postgraduate Fellowship, Western Reserve University, Cleveland, Ohio.
Fulbright Scholar. Grants-in-aid from the Smith-Mundt Fund and the
Rockefeller Foundation. Leave of absence from Ph.D. studies.

DEGREES AND FELLOWSHIP

- 1946: M.B., B.S. (Melb.) - Medicine
- 1954: Ph.D. (Melb.) - Anatomy
- 1966: D.Sc. (Melb.) - Child Growth
- 1968: M.D. (Melb.) - Internal Medicine
- 1978: F.R.A.C.P. (Fellow of the Royal Australasian College of Physicians;
Division of Pediatrics)

Alexander F. Roche, M.D., Ph.D., D.Se., FRACP, FACMG

EDUCATION

University of Melbourne (Australia), M.B., B.S., 1946, Medicine
University of Melbourne (Australia), Ph.D., 1954, Anatomy
University of Melbourne (Australia), D.Sc., 1966, Child Growth
University of Melbourne (Australia), M.D., 1968, Internal Medicine

PROFESSIONAL POSITIONS

1949-1957 Senior Demonstrator, Department of Anatomy, University of Melbourne
1950-1951 Lecturer, Department of Anatomy, University of Melbourne
1952-1953 Fulbright Scholar, Postgraduate Fellowship, Western Reserve University, Cleveland, OH.
Grants-in-aid from the Smith-Mundt Fund and the Rockefeller Foundation
1952-1961 Various Faculty Posts, Department of Anatomy, University of Melbourne
1954-1968 Director, Melbourne University Child Growth Study
1968-1984 Chief, Section of Growth and Genetics; Chief, Section of Fe Is Longitudinal Study and

Families; Chief, Section for the Measurement of Growth and Maturity; Senior Scientist, Fels
Research Institute, Yellow Springs, Ohio
1977-1990 Fels Professor of Pediatrics and Fels Professor of Obstetrics and Gynecology, Wright

State University School of Medicine, Yellow Springs, Ohio
1984-1992 Head, Div. of Human Biology, Depart. of Community Health, Wright State University
1990- Fels Professor of Community Health and of Pediatrics, Wright State University School of
Medicine, Yellow Springs, Ohio
1990-1995 University Professor, Wright State University
1993- Editor-in-Chief, Journal of Human Ecology

HONORS

Fellow, Royal Australasian College of Physicians
Honorary Life Member, Sociedad Argentina de Pediatria, Australian Society of Orthodontics and
Sociedad Mexicana de Anatomia
President, Human Biology Council (1980-82), American Dermatoglyphics Association (1982-84)
Outstanding Scientist Award, Affiliated Societies Council, Dayton, Ohio (1978)
Outstanding Achievement Award, Academy of Medicine, Wright State University (1986)
Presidential Award for Excellence in Research, Wright State University (1988)
2004 Boas Award, Human Biology Association, Tampa, Florida (2004)

PUBLISHED WORKS

A. (i) THESES

1. Roche, A. F. Thesis in part requirement for Ph.D. (University of Melbourne), 1954. An Investigation of Axon-Myelin Relationships with Special Reference to Peripheral Neuromuscular Mechanisms Age Changes in the Skeleton of the Australian Aborigine.
2. Roche, A. F. Thesis in part requirement for D.Sc. (University of Melbourne). Collected Papers on Physical Aspects of Child Growth, 1966.
3. Roche, A. F. Thesis in part requirement for M.D. (University of Melbourne). Collected Papers on Child Growth, 1968.

(iii) BOOKS

4. Roche, A. F. Manual of Anthropometric Studies for Latin America and the Caribbean. PanAmerican Health Organization, Washington, DC., pp. 97, 1973.
5. Roche, A. F. and F. Falkner (eds.). Nutrition and Malnutrition - Identification and Measurement. Advances in Experimental Medicine and Biology, Vol. 49. Plenum Publishing Corporation, New York, 367 pp., 1974.
6. Roche, A. F., Wainer, H. and D. Thissen. Predicting Adult Stature for Individuals. Monographs in Pediatrics, Vol. 3. Karger, Basel, 115 pp., 1975.
7. Roche, A. F., Wainer, H. and D. Thissen. Skeletal Maturity: The Knee Joint as a Biological Indicator. Plenum Publishing Corporation, New York, pp. 374, 1975. (Reprinted, 1995).
8. Johnston, F. E., Roche, A. F. and C. Susanne (eds.). Human Physical Growth and Maturation: Methodologies and Factors. North Atlantic Treaty Organization Advanced Study Institute, Sogesta, Italy. Plenum Publishing Corporation. New York, pp. xii + 364, 1980.
9. Roche, A. F. and R. M. Malina. Manual of Physical Status and Performance in Childhood. Vol. 1. Physical Status. Plenum Publishing Corporation, New York, NY. Bound in two parts, pp. 1440, 1983.
10. Malina, R. M. and A. F. Roche. Manual of Physical Status and Performance in Childhood. Vol. n. Physical Performance. Plenum Publishing Corporation, New York, NY. pp. 803, 1983.
11. Roche, A. F. (ed.) Body-Composition Assessments in Youth and Adults, Proc. of Sixth Ross Conference on Medical Research, Williamsburg, Virginia, December 1984, Ross Laboratories, Columbus, OH, pp. 109, 1985.
12. Roche, A. F. (ed.) The Gastrointestinal Response to Injury, Starvation and Enteral Nutrition Eighth Ross Conference on Medical Research, Phoenix, Arizona, pp. 82, November, 1987.
13. Lohman, T. G., Roche A. F. and R. Martorell (eds.) Anthropometric Standardization Reference

- Manual. Human Kinetics Publishers, Inc., Champaign, Illinois, pp. vi + 177, 1988.
14. Roche, A. F., Chumlea, W. C. and D. Thissen. Assessing the Skeletal Maturity of the Hand-Wrist: FELS Method. Charles C Thomas, Springfield, Illinois, pp. viii + 339, 1988.
 15. Roche, A. F. (ed.) Prevention of Adult Atherosclerosis During Childhood. Ninety-fifth Ross Conference on Pediatric Research, North River Yacht Club, Tuscaloosa, Alabama September 1987, Ross Laboratories, Columbus, Ohio, pp. 127, 1988.
 16. Roche, A. F. (ed). The Role of Nutrients in Cancer Treatment. Ninth Ross Conference on 17. Medical Research, Tempe, Arizona, pp. 117, 1991.
 17. Lohman, T.G., Roche, AF. and R. Martorell (eds). Anthropometric Standardization Reference Manual (Abridged Edition). Human Kinetics Publishers, Inc., Champaign, IL., pp. 96, 1991.
 18. Roche, A. F. Growth, Maturation and Body Composition: The Fels Longitudinal Study 1929-1991, Cambridge University Press, Cambridge, United Kingdom, pp., 345, 1992.
 19. Roche, A. F. (ed). Short-Chain Fatty Acids: Metabolism and Clinical Importance. Report of the Tenth Ross Conference on Medical Research, Sanibel Island, Florida, pp. 106, 1991.
 20. Lohman, T. G., Roche, A F. and R. Martorell (eds.). Manuale Di Riferimento per la Standardizzazione Anthropometrica. EDRA, Milano, pp. 192, 1992.
 21. Roche, A F. (ed.) Cytokines in critical illness. Report of the Eleventh Ross Conference on Medical Research. Ponte Vedre, Florida pp. 78, 1992.
 22. Roche, A F. (ed.). Nutritional Essentiality: A Changing Paradigm. Report of the Twelfth Ross Conference on Medical Research, Ross Products Division, Abbott Laboratories, Columbus, OH, pp. 84, 1993.
 23. Roche, A F., Heymsfield, S. B. and T. G. Lohman (eds.). Human Body Composition. Human Kinetics Publishers, Inc., Champaign, IL. pp. x + 336, 1996.
 24. Roche, AF. (ed.). Oxidative Processes and Antioxidants: Their Relation to Nutrition and Health Outcomes. Report of the Thirteenth Ross Conference on Medical Research, Ross Products Division, Abbott Laboratories, Columbus, OH, pp. 87, 1994.
 25. Roche, A.F., Chumlea, W.C. and D. Thissen. Valvatazione Della Maturita Scheletrica Di Mano E Polso: Il Metodo Fels. Translated by G. Aicardi, C. G. Edizioni. Medico Scientifiche Torino, Italy. pp. 323, 1996.
 26. Roche, A F., Heymsfield, S. B. and T. G. Lohman (eds.). Human Body Composition. Human Kinetics Publishers, Inc., Champaign, IL. pp. x + 336, 1996. (Japanese translation, Tokyo Taishukan (in press), 2002.
 27. Roche, AF. and S. Sun. Human Growth: Assessment and Interpretation, Cambridge University Press, (in press), 2002.

(iii) MONOGRAPHS

28. Roche, A. F. (ed). Symposium on Assessment of Skeletal Maturity. Am. J. Phys. Anthrop.35:315469, 1971.
29. Roche, A. F. (ed.). Report on the Feasibility of Internationally Comparable Growth Studies in Colombia, Chile, Argentina, Uruguay, Paraguay, Venezuela, Guatemala, and Mexico. 118 pp. Pan American Health Association, Regional Office of the World Health Organization, 1971.
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31. Roche, A. F. Physical Growth. Report to National Bureau of Standards, Washington, DC., pp. 65, 1974.
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33. Roche, A. F., Roberts, J. and P. V. V. Hamill. Skeletal Maturity of Youths 12-17 Years, United States. Vital and Health Statistics, National Center for Health Statistics, Series 11, No. 160, pp. 60, 1976.
34. Hamill, P., Drizd, T., Johnson, C., Reed, R. and A. F. Roche. NCHS Growth Charts, 1976. Monthly Vital Statistics Report, 25:1-22, 1976.
35. Hamill, P. V. V., Drizd, T. A., Johnson, C. L., Reed, R. B. and A. F. Roche. NCHS Growth Curves for Children. Birth-18 Years, United States. Vital and Health Statistics, National Center for Health Statistics, Series 11, No. 165, pp. 74, 1977.
36. Roche, A. F., Siervogel, R. M., Himes, J. H. and D. L. Johnson. Longitudinal Study of Human Hearing: Its Relationship to Noise and Other Factors. I. Design of Five Year Study; Data from First Year. AMRL-TR-76-110. Aerospace Medical Research Laboratory, Wright-Patterson Air Force Base, Ohio, pp. 158, 1977.
37. Roche, A. F., Roberts, J. and P. V. V. Hamill. Skeletal Maturity of Youths 12-17 Years: Racial, Geographic Area, and Socioeconomic Differentials, United States. Vital and Health Statistics, National Center for Health Statistics, Series 11, No. 167, pp. 98, 1978.
38. Roche, A. F., Eichorn, D., McCammon, R. W., Reed, R. B., Valadian, I., Himes, J. H., Kent, R. L. Jr. and R. M. Siervogel. The Natural History of Blood Pressure. Final report on Contract NOI-HV42985. pp. 1400, 1978.
39. Roche, A. F. (ed.) Secular Trends in Human Growth, Maturation and Development. Monographs of the Society for Research in Child Development, 44, pp. 120, 1979.
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41. Himes, J. H., Roche, A. F. and D. Thissen. Parent-specific Adjustments for Assessment of Recumbent Length and Stature. Monographs in Paediatrics. Vol. 13, Karger, Basel, pp. 88, 1981.
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44. Roche, A. F., Siervogel, R. M., Chumlea, W. C., Reed, R. B., Valadian, I., Eichorn, D. and R. W. McCammon. Serial Changes in Subcutaneous Fat Thicknesses of Children and Adults. Monographs in Pediatrics. Vol. 17, Karger, Basel, pp.110, 1982.
45. Roche, A. F., Chumlea, W. c., Siervogel, R. M. and D. Mukherjee. Longitudinal Study of Human Hearing: Its Relationship to Noise and Other Factors. N. Data from 1976 to 1982. Final Report. AMRL-TR-83-057 Aerospace Medical Research Laboratory, Wright-Patterson Air Force Base, Ohio. pp. 62, 1983.
46. Moore, W. M. and A. F. Roche. Pediatric Anthropometry, 2nd Ed. Ross Laboratories, Columbus, Ohio, pp. 26, 1983.
47. Chumlea, W. C., Roche, A.F. and D. Mukherjee. Nutritional Assessment of the Elderly Through Anthropometry. Ross Laboratories, Columbus, Ohio, pp. 44, 1984.
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51. Chumlea, W. C., A. F. Roche and D. Mukherjee. Nutritional Assessment of the Elderly through Anthropometry, 2nd Ed. Ross Laboratories, Columbus, Ohio, pp. 46, 1987.
52. Guo, S., Roche, A. F. and W. C. Chumlea. Optimum Anthropometric Grade Rules. Final Report on Phase I of U.S. Army Contract No. DAAK 60-87-C-0060. Natick Research and Development Center, Natick, Massachusetts, pp. vi + 142, 1988.
53. Guo, S. and A. F. Roche. Mathematical Modeling for Growth from Birth to 3 Years. Report on Professional Service Contract Extension (#89CO 72675701D) National Center for Health Statistics, Washington, D.C., September, 1989.
54. Ryan, A. S. and A. F. Roche (eds.). Growth of Mexican-American children: Data from Hispanic Health and Nutrition Examination Survey (1982-1984). Am. J. Clin. Nutr., 51 :897 -952S, 1990.
55. Roche, A. F. Executive Summary National Center for Health Statistics Workshop on Revision of Growth Charts. Personal Services Contract (#0990-015),82 pp. National Ctr for Health Statistics, Washington, DC, June, 1993. (Available on the web at www.cdc.gov/growthcharts)

56. Khamis, H. J. and A. F. Roche. Growth Outcome of "Normal" Short Children who are Retarded in Skeletal Maturation. Report to Genentech, Inc., July, 1993.
57. Roche, AF. Executive Summary of Workshop to Consider Low Birth Weight in Relation to the Revision of the NCHS Growth Charts for Infancy (Birth-3 Years), pp. 76. Personal Services Contract #0009430587, National Center for Health Statistics, Washington DC, Oct., 1994.
58. (Available on the web at www.cdc.gov/growthcharts)
59. Roche, A F. Executive Summary of Workshop to Consider Secular Trends and Possible Pooling of Data in Relation to the Revision of the NCHS Growth Charts. November, 1995, pp. 81. Personal Service Contract #0009530411, National Center for Health Statistics, Washington, DC, 1997. (Available on the web at www.cdc.gov/growthcharts)
60. Roche, A F. The Effects of Varying Sample Sizes and Changing from Weight-for-Length to BMI at 2-3 Years in the Revised NCHS/CDC Growth Charts. pp. 31. Professional Service Contract #0009530096, National Center for Health Statistics, Washington, DC, 1995. (Available on the web at www.cdc.gov/growthcharts)
61. Roche, A F. Guidelines to the Revised NCHS/CDC Growth Charts. pp. 457. Professional Services Contract #0009430592, National Ctr for Health Statistics, Washington, DC. 1997.
62. Roche, A F. and S.S. Guo. Analysis of secondary sexual characteristics, Third National Health and Nutrition Examination Survey (NHANES III). Report on Personal services contract No. 0009630288. 1998.
63. Kuzmarski, R. J., Ogden, C. L., Guo, S.S., Grommer-Strawn, L. M., Flegal, K.M., Mei, Z., Wei, R., Curtin, L.R., Roche, AF. and C. L. Johnson. 2000 CDC Growth Charts for the United States: Methods and Development. National Center for Health Statistics, Vital and Health Stat. 11 (246): 1-190,2002.

(ii) METHODOLOGY

64. Roche, A F. and S. Sunderland. Melbourne University Child Growth Study. Med. J. Austr., i:559562, 1959.
65. Roche, A F. and J. W. G. Wignall. The cytophometer: A new instrument for recording contours. Am. J. Phys. Anthrop., 20:521-525, 1962.
66. Roche, A F., Towns, J. W. and E. D. Smith. Body positioning for clinical assessment of kyphosis or lordosis. Austr. Paed. J., 2:199-206, 1966.
67. A. F. and J. M. Johnson. A comparison between methods of calculating skeletal age (GreulichPyle). Am. J. Phys. Anthrop., 30:221-229, 1969.
68. Roche, A. F., Rohmann, C. G., French, N. Y. and G. H. Davila. Effect of training on replicability of assessments of skeletal maturity (Greulich-Pyle). Am. J. Roentgenol., 108:511-515, 1970.
69. Roche, A F., Davila, G. H., Pasternack, B. A and M. J. Walton. Some factors influencing the replicability of assessments of skeletal maturity (Greulich-Pyle). Am. J. Roentgenol., 109:299-306,

1970.

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71. Roche, A. F New statistical techniques that assist the interpretation of serial growth data. *Proc. XIII International Congress of Pediatrics, Vienna. Growth & Development*, 11-16, 1971.
72. Falkner, F., Buzina, R., Chopra, J., Gyorgy, P., Jelliffe, D. B., Jelliffe, P., Read, M. S. and A. F. Roche. The creation of growth standards: A committee report. *Am. J. Clin. Nutr.*, 25:218-220, 1972.
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74. Roche, A. F. and G. H. Davila Differences between recumbent length and stature within individuals. *Growth*, 38:313-320, 1974.
75. Roche, A. F. The design of studies for monitoring growth *Proc. XIV International Congress of Pediatrics, Buenos Aires*, 5:320-331, 1974.
76. Roche, A. F. and F. Falkner. Physical growth charts, pp. 63-73. In: *Pediatric Screening Tests and Procedures* W. K. Frankenburg and B. W Camp (eds.) Charles C Thomas, Springfield, IL, 1975
77. Roche, A. F. and J. I. McKigney. Physical growth of ethnic groups comprising the United States population *Am. J. Clin. Nutr.*, 28:1071-1074, 1975.
78. United States population *Am. J. Dis. Child.*, 130:62-64, 1976.
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80. Roche, A. F. Guidelines for prospective studies of growth-related effects of stimulant medication in hyperactive children. Food and Drug Administration, (for internal circulation), pp. 1-39, 1977
81. Roche, A. F Growth charts old and new. In *Proc., Nutrition Assessment of Children and Youth Workshop*. Michigan Department of Public Health, Lansing, Michigan, 1977.
82. Roche, A. F. Guidelines for prospective studies of growth-related effects of stimulant medication in hyperactive children. Food and Drug Administration, (for internal circulation), pp. 1-39, 1977.
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89. Roche, A. F. Prediction. pp. 177-191 In: Human Physical Growth and Maturation: Methodologies and Factors Johnston, F. E., Roche, A. F. and C. Susanne (eds.) North Atlantic Treaty Organization Advanced Study Institute, Sogesta, Italy, Plenum Publishing Corporation, New York, 1980.
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91. Roche, A. F. Anthropometric variables: Effectiveness and limitations. pp. 22-28, In: Assessing the Nutritional Status of the Elderly--State of the Art. Calloway, C. W. and G. Harrison, (eds.) Report of the Third Ross Roundtable on Medical Issues Washington, DC June 21-22, 1981. Columbus, Ohio: Ross Laboratories, 1982.
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95. Chumlea, W. C., Mukherjee, D. and A. F. Roche. A comparison of methods for measuring cortical bone thickness Am. J. Phys. Anthropol. 65:83-86, 1984.
96. Chumlea, W. C. and A. F. Roche. Ultrasonic and skinfold caliper measures of subcutaneous fat thickness in elderly men and women. Am. J. Phys. Anthropol. 71:351-358, 1986.
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101. Harrison, G. G., Buskirk, E. R., Carter, J. E. L., Johnston, F. E., Lohman, T. G., Pollock, M. L.,

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(i) MATURATION

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