



Departament de Biologia Animal  
Unitat d'Antropologia

CARACTERIZACIÓN DE LA HISTORIA REPRODUCTORA  
Y ANÁLISIS DE LA FECUNDIDAD  
DE LAS MUJERES DE TIERRA DEL FUEGO

Memoria para optar al grado de Doctor en Ciencias Biológicas presentada por  
Joel Pascual Sánchez.

PROGRAMA DE DOCTORADO BIOLOGIA ANIMAL II: ANTROPOLOGIA BIOLÒGICA  
(BIENIO 1998-2000)

Clara E. García Moro  
*Directores de la tesis*

Miquel Hernández

Clara E. García Moro  
*Tutora de la tesis*

Barcelona, Octubre de 2004

## A

- AINSWORTH HARRISON, G. (1992). Human fertility studies under field conditions. Introduction. *Journal of Biosocial Science* 24(3): 285-7.
- ALAM, N. (1995). Birth spacing and infant and early childhood mortality in a high fertility area of Bangladesh: age-dependent and interactive effects.. *Journal of Biosocial Science* 27(4): 393-404.
- ALFONSO-SÁNCHEZ, M.A.; PEÑA, J.A.; CALDERÓN, R. (2003). Time trends and determinants of completed family size in a rural community from the Basque area of Spain (1800-1969). *Journal of Biosocial Science* 35 481-97.
- ANDERSSON, R. AND BERGSTRÖM, S. (1998). Is maternal malnutrition associated with a low sex ratio at birth? *Human Biology* 70(6): 1101-6.
- ANDERTON, D.L. AND BEAN, L.L. (1985). Birth spacing and fertility limitation: a behavioral analysis of a nineteenth century frontier population. *Demography* 22(2): 169-83.
- ARIAS, S. (1998). Consecuencias a largo plazo de la restricción calórica: valoración en mujeres europeas. *Tesis doctoral*. Universidad Autónoma de Madrid.
- ARTARIA, M.D. AND HENNEBERG, M. (2000). Why did they lie? Socio-economic bias in reporting menarcheal age. *Annals of Human Biology* 27(6): 561-9.
- ARYAL, R.H. (1991). Socioeconomic and cultural differentials in age at marriage and the effect on fertility in Nepal. *Journal of Biosocial Science* 23(2): 167-78.
- ASTOLFI, P. AND ZONTA, L.A. (1999). Sex ratio and parental age gap. *Human Biology* 71(1): 135-41.

## B

- BANDYOPADHYAY, M. (2003). Missing girls and son preference in rural India: looking beyond popular myth. *Health Care Women International* 24(10): 910-26.
- BARDET, J.P. AND DUPAQUIER, J. (1998). *Histoire des populations de l'Europe. II. La révolution démographique 1750-1914*. Fayard. Paris.
- BARROSO, A.; BERNIS, C.; ARIAS, S.; GONZÁLEZ, M.B.; MONTERO, P.; VAREA, C. (2003). Aspectos antropológicos y epidemiológicos sobre la histerectomía y la oforeachtomía en mujeres españolas. En: Aluja, M.P. et al.(eds). *Antropología y biodiversidad* 513-26. Edicions Bellaterra. Barcelona.
- BEALL, C.M. (1983). Ages at menopause and menarche in a high-altitude Himalayan population. *Annals of Human Biology* 10(4): 365-70.
- BENEDICT, B. (1972). Social regulation of fertility. En: Harrison, G.A., Boyce, A.J.(eds). *The structure of human populations* 73-89. Clarendon Press. Oxford.

- BERGSTEN-BRUCEFORS, A. (1976). A note on the accuracy of recalled age at menarche. *Annals of Human Biology* 3(1): 71-3.
- BERNIS, C. (1974). Estudio biodemográfico de la población maragata. *Tesis doctoral*. Universidad Complutense de Madrid.
- BERNIS, C. (1980). La ecología humana como ciencia interdisciplinaria. En: *Actas I Congreso Español de Antropología* 283-97. Universidad de Barcelona. Barcelona.
- BERNIS, C. (1990). Canvis en els models de reproducció humana: fets i problemes teòrics. En: *Poblacions, societats i entorns*. 260-81. Barcanova. Barcelona.
- BERTRANPETIT, J. (1981). Estructura demográfica y genética de la población de Formentera. *Tesis doctoral*. Universitat de Barcelona.
- BEYENE, Y. AND MARTIN, M.C. (2001). Menopausal experiences and bone density of Mayan women in Yucatan, Mexico. *American Journal of Human Biology* 13: 505-11.
- BISQUERRA ALZINA, R. (1989). *Introducción conceptual al análisis multivariante*. PPU. Barcelona.
- BITTLES, A.H.; GRANT, J.C.; SULLIVAN, S.G.; HUSSAIN, R. (2002). Does inbreeding lead to decreased human fertility? *Annals of Human Biology* 29(2): 111-30.
- BLANCHARD, R. AND BOGAERT, A.F. (1997). The relation of closed birth intervals to the sex of the preceding child and the sexual orientation of the succeeding child. *Journal of Biosocial Science* 29 111-8.
- BODMER, W.F. AND EDWARDS, A. (1960). Natural selection and the sex ratio. *Annals of Human Genetics* 24 239-44.
- BODMER, W.F. AND JACQUARD, A. (1968). La variance de la dimension des familles. *Population* 23 869-78.
- BOGUE, D.J. (1969). *Principles of demography*. Wiley. New York.
- BONGAARTS, J. (1978). A framework for analyzing the proximate determinants of fertility. *Population and Development Review* 4(1): 105-132.
- BONGAARTS, J. AND POTTER, R. (1983). *Fertility, biology, and behavior. An analysis of the proximate determinants*. Academic Press. New York.
- BONGAARTS, J.; FRANK, O.; LESTHAEGE, R. (1984). The proximate determinants of fertility in sub-Saharan Africa. *Population and Development Review* 10(3): 511-38.
- BONGAARTS, J. (1987). The proximate determinants of exceptionally high fertility. *Population and Development Review* 13(1): 133-40.
- BONGAARTS, J. (1994). The impact of the proximate determinants of fertility: a comment on Reinis. *Population Studies* 48 159-60.
- BONGAARTS, J. (2001). Fertility and reproductive preferences in post-transitional societies. En: *Global fertility transition* 260-81. Population Council. New York.

- BORRIE, W. (1969). Recent trends and patterns in fertility in Australia. *Journal of Biosocial Science* 1(1): 57-70.
- BOURGEOIS-PICHAUT, J. (1967). Social and biological determinants of human fertility in non-industrial societies. *Proceedings of the American Philosophical Society*
- BOYCE, A.J.; KÜCHEMANN, C.F.; HARRISON, G.A.(1971). Population structure and movement patterns. En: Brass, W.(ed). *Biological aspects of demography* 1-9. Taylor and Francis. London.
- BRIDGES, E.L. (1978). *El último confín de la Tierra*. Marymar. Buenos Aires.
- BROMBERGER, J.T.; MATTHEWS, K.A.; KULLER, L.H.; WING, R.R.; MEILAHN, E.N.; PLANTINGA, P. (1997). Prospective study of the determinants of age at menopause. *American Journal of Epidemiology* 145(2): 124-33.
- BROWN, D.E.; KOENIG, T.V.; DEMORALES, A.M.; MCGUIRE, K.; MERSAI, C.T. (1996). Menarche age, fatness, and fat distribution in Hawaiian adolescents. *American Journal of Physical Anthropology* 99(2): 239-47.
- BUMPASS, L.L. AND MBURUGU, E.K. (1977). Age at marriage and completed family size. *Social Biology* 24(1): 31-7.
- BURRELL, R.J.W.; HEALY, M.J.R.; TANNER, J.M. (1961). Age at menarche in South African Bantu schoolgirls living in the Transkei reserve. *Human Biology* 33: 250-61.
- BUSFIELD, J. (1972). Age at marriage and family size: social causation and social selection hypotheses. *Journal of Biosocial Science* 4: 117-34.

## C

- CAGNACCI, A.; RENZI, A.; ARANGINO, S.; ALESSANDRINI, C.; VOLPE, A. (2004). Influences of maternal weight on the secondary sex ratio of human offspring. *Human Reproduction* 19(2): 442-4.
- CALDWELL, J. (2001). The globalization of fertility behavior. En: *Global fertility transition* 93-115. Population Council. New York.
- CALOT, G. (1986). El descenso de la fecundidad en los países industriales: hechos, causas, consecuencias y remedios. En: *Tendencias demográficas y planificación económica*. Ministerio de Economía y Hacienda. Madrid.
- CAMERON, N. AND NAGDEE, I. (1996). Menarcheal age in two generations of South African Indians. *Annals of Human Biology* 23(2): 113-9.
- CAMPBELL, B.C. AND UDRY, J.R. (1995). Stress and age at menarche of mothers and daughters. *Journal of Biosocial Science* 27(2): 127-34.
- CAMPBELL, K.L. AND WOOD, J.W. (1988). Fertility in traditional societies. En: Diggory, P. et al.(eds). *Natural human fertility. Social and Biological determinants* 39-69. MacMillan Press and The Eugenics Society. London.

- CARATINI, A.L.; CARNESE, R.F.; GÓMEZ, P. (1996). Endogamia-exogamia grupal de los inmigrantes españoles en la ciudad de Buenos Aires: su variación en el espacio y en el tiempo. *Revista Española de Antropología Biológica* 17 63-75.
- CASEY,V.A.; DWYER,J.T.; COLEMAN,K.A.; KRALL, E.A.; GARDNER,J.; VALADIAN, I. (1991). Accuracy of recall by middle-aged participants in a longitudinal study of their body size and indices of maturation earlier in life. *Annals of Human Biology* 18(2): 155-66.
- CASTILLA, J.A.; GARCÍA-PEÑA, M.L.; NÚÑEZ, A.I.; BLANCO, M.; FERNÁNDEZ, A. (2002). Parámetros naturales en reproducción. *Revista Iberoamericana de Fertilidad* 24:13-7.
- CAVALLI-SFORZA, L.L. AND BODMER, W.F. (1981). Genética de las poblaciones humanas. Ediciones Omega. Barcelona.
- CELADE. (1991). *Información sobre la situación de la población en Chile*. Santiago de Chile.
- CELADE. (2001). América Latina: Fecundidad 1950-2050. *Boletín demográfico de la Comisión Económica para América Latina y el Caribe* 68(Julio):
- CHACKIEL, J. AND SCHKOLNIK, S. (1992). La transición de la fecundidad en América Latina. *Notas de población* 55 161-92.
- CHARBONNEAU, H. (1970). *Tourouvre-au-Perche aux XVIIe et XVIIIe siècles*. Presses Universitaires de France. Paris.
- CHARBONNEAU, H.; DESJARDINS, B.; GUILLEMETTE, A.; LANDRY, Y.; LEGARE, J.; NAULT, F. (1987). *Naissance d'une population. Les Français établis au Canada au XVIIe siècle*. Institut National d'Études Démographiques. Presses de l'Université de Montréal.
- CHOMPOOTAWEEP, S.; TANKEYOON, M.; POOMSUWAN, P.; YAMARAT, K.; DUSITSIN, N. (1997). Age at menarche in Thai girls. *Annals of Human Biology* 24(5): 427-33.
- CLARK, S.; COLSON, E.; LEE, J.; SCUDDER, T. (1995). Ten thousand Tonga: a longitudinal anthropological study from Southern Zambia, 1956-1991. *Population Studies* 49(1): 91-109.
- CLAY, D.C. AND VANDER HAAR, J.E. (1993). Patterns of intergenerational support and childbearing in the Third World. *Population Studies* 47 67-83.
- CLEGG, E. (2001). Starting, spacing and stopping in the reproductive histories of Outer Hebridean families. *Journal of Biosocial Science* 33(3): 405-26.
- CLELAND, J.; CASTERLINE, J.B.; SINGH, S.; ASHURST, H. (1984). The effects of nuptiality, contraception and breastfeeding on fertility in developing countries. *International Family Planning Perspectives* 10(3): 86-92.

- COALE, A.J. AND TRUSSELL, T.J. (1974). Model fertility schedules: variations in the age structure of childbearing in human populations. *Population Index* 40: 195-258.
- COALE, A.J. (1977). The development of new models of nuptiality and fertility. *Population*. Especial Septiembre 131-51.
- COALE, A.J.; DEMENY, P.; VAUGHAN, B. (1983). *Regional mode life tables and stable populations*. Academic Press. New York.
- COLEMAN, D.A. (1995). Human migration: effects on people, effects on populations. En: Mascie-Taylor, C.G.N., Bogin, B.(eds). *Human variability and plasticity* 115-45. Cambridge University Press.
- CRAMER, D.W.; XU, H.; HARLOW, B.L. (1996). Does "incessant" ovulation increase risk for early menopause? *American Journal of Obstetrics and Gynecology* 172(2): 568-73.
- CRESWELL, J.L.; EGGER, P.; FALL, C.H.D.; OSMOND, C.; FRASER, R.B.; BARKER, D.J.P. (1997). Is the age at menopause determined in-utero? *Early Human Development* 49: 143-8.
- CROGNIER, E. (1996). Behavioral and environmental determinants of reproductive success in traditional Moroccan Berber groups. *American Journal of Physical Anthropology* 100(2): 181-90.
- CROGNIER, E.; ELIZONDO, S.; CARATINI, A.L.; ZUBIETA, N.I.; NIBORSKY, R.; CARNESE, R.F. (1996). Los comportamientos reproductivos de la población mapuche de la provincia de Río Negro. *Revista Argentina de Antropología Biológica* 1(1): 86-97.
- CROGNIER, E.; BAALI, A.; HILALI, M.K. (2001). Do "helpers at the nest" increase their parents' reproductive success? *American Journal of Human Biology* 13(3): 365-73.
- CROGNIER, E.; VILLENA, M.; VARGAS, E. (2002). Helping patterns and reproductive success in Aymara communities. *American Journal of Human Biology* 14(3): 372-9.
- CROSS, H.E. AND MCKUSICK, V.A. (1970). Amish demography. *Social Biology* 17: 83-101.
- CROW, J. (1958). Some possibilities for measuring selectin intensities in man. *Human Biology* 30: 1-13.
- CRUZ-COKE, R. (1971). Problèmes biologiques liés à la contraception. Résultats d'observations à Santiago du Chil. En: *Génétique et populations*. Press Universitaires de France. Paris.

## D

- DANKER-HOPFE, H. (1986). Menarcheal age in Europe. *Yearbook of Physical Anthropology* 29: 81-112.

- DAVIS, K. AND BLAKE, J. (1956). Social structure and fertility: an analytic framework. *Economic Development and Cultural Change* 4.
- DE JONG, G.F. (1972). Patterns of human fertility and mortality. En: Harrison, G.A., Boyce, A.J.(eds). *The structure of human populations* 32-56. Clarendon Press. Oxford.
- DEL PANTA, L. AND LIVI-BACCI, M. (1977). Chronologie, intensité et diffusion des crises de mortalité en Italie: 1600-1850. *Population* 401-46.
- DESJARDINS, B.; BIDEAU, A.; HEYER, E.; BRUNET, G. (1991). Intervals between marriage and first birth in mothers and daughters. *Journal of Biosocial Science* 23(1): 49-54.
- DESJARDINS, B.; BIDEAU, A.; BRUNET, G. (1994). Age of mother at last birth in two historical populations. *Journal of Biosocial Science* 26(4): 509-16.
- DIAMOND, J.M. (1987). Causes of death before birth. *Nature* 329: 487-8.
- DO, K.A.; TRELOAR, S.A.; PANDEYA, N.; PURDIE, D.; GREEN, A.C.; HEATH, A.C.; MARTIN, N.G. (1998). Predictive factors of age at menopause in a large Australian twin study. *Human Biology* 70(6): 1073-91.
- DUCROS, J. AND DUCROS, A. (1987). Age at menarche in Tahiti. *Annals of Human Biology* 14(6): 559-62.

## E

- EATON, J.W. AND MAYER, A.J. (1953). The social biology of very high fertility among the Hutterites. The demography of a unique population. *Human Biology* 25: 206-64.
- ECKERT, R. (1989). *Fisiología animal: mecanismos y adaptaciones*. McGraw-Hill/Interamericana. Madrid.
- ELLISON, P.T. (1982). Skeletal growth, fatness, and menarcheal age: a comparison of two hypotheses. *Human Biology* 54(2): 269-81.
- EMPERAIRE, J. (1963). *Los nómadas del mar*. Ediciones de la Universidad de Chile. Santiago de Chile.
- EVELETH, P.B. AND TANNER, J.M. (1976). Sexual development: stages of puberty. Menarche. En: *Worldwide variation in human growth*. Cambridge University Press. Cambridge.
- EVELETH, P.B. AND TANNER, J.M. (1990). *Worldwide variation in human growth*. Cambridge University Press. Cambridge.

## F

- FARID-COUPAL, N.; LOPEZ-CONTRERAS, M.; MENDEZ-CASTELLANO, H. (1981). The age at menarche in Carabobo, Venezuela with a note on the secular trend. *Annals of Human Biology* 8(3): 283-8.
- FEITOSA, M.F. AND KRIEGER, H. (1992). Demography of the human sex ratio in some Latin American countries, 1967-1986. *Human Biology* 64(4): 523-30.
- FELT, J.C.; RIDLEY, J.C.; ALLEN, G.; REDEKOP, C. (1990). High fertility of old colony Mennonites in Mexico. *Human Biology* 62(5): 689-700.
- FINNEY, D.J. (1952). *Probit analysis*. Cambridge University Press. Cambridge.
- FLEURY, M. AND HENRY, L. (1976). *Nouveau manuel de dépouillement et d'exploitation de l'état civil ancien*. L'Institut National D'Etudes Démographiques. Paris.
- FORD, K.; HUFFMAN, S.L.; CHOWDHURY, A.K.M.A.; BECKER, S.; ALLEN, H.; MENKEN, J. (1989). Birth-interval dynamics in rural Bangladesh and maternal weight. *Demography* 26(3): 425-37.
- FORT, A.L. (1989). Investigating the social context of fertility and family planning: a qualitative study in Peru. *International Family Planning Perspectives* 15(3): 88-95.
- FREEDMAN, R. AND BLANC, A.K. (1992). Fertility transition: an update. *International Family Planning Perspectives* 18(2): 44-50.
- FREIRE-MAIA, N. AND CHAKRABORTY, R. (1975). Genetic of Archeipodia (the hand less and footless families of Brazil). IV. Sex ratio consanguinity and birth order. *Annals of Human Genetics* 39: 151-61.
- FRICKE, T. AND TEACHMAN, J.D. (1993). Writing the names: marriage style, living arrangements, and first birth interval in a Nepali society. *Demography* 30(2): 175-88.
- FRISCH, R.E. (1982). Demographic implications of the biological determinants of female fecundity. *Social Biology* 29(1-2): 187-92.

## G

- GALIANA, A. (1999). *Nosaltres els humans*. Edicions Bromera. Alzira, Valencia.
- GARCÍA-MORO, C. (1982). Biodemografía de Casares de las Hurdes (1682-1978). *Tesis doctoral*. Universitat de Barcelona.
- GARCÍA-MORO, C. (1986). *Entre brezos y colmenas. La población de Casares de las Hurdes en los siglos XVII al XX*. Editorial Regional de Extremadura.
- GARCÍA-MORO, C. AND HERNÁNDEZ, M. (1987). La edad de menarquia en la España interior (1909-1965). *Trabajos de Antropología* 21(1): 51-8.
- GARCÍA-MORO, C. AND HERNÁNDEZ, M. (1991). Aspectos de la fecundidad en mujeres españolas. *Actas VI Congreso Español de Antropología Biológica* (114): 122

- GARCÍA-MORO, C. (1992). Reconstrucción del proceso de extinción de los selknam a través de los libros misionales. *Anales del Instituto de la Patagonia* Ser Cs Hs 21: 33-46.
- GARCÍA-MORO, C.; HERNÁNDEZ, M.; MARTINIC, M. (1992). Estacionalidad de los matrimonios en Magallanes, Chile (1885-1920). *Anales del Instituto de la Patagonia* Ser Cs Hs 21: 47-61.
- GARCÍA-MORO, C.; HERNÁNDEZ, M.; MARTINIC, M. (1993). La nupcialidad en Magallanes (1885-1920). Estado civil y edad matrimonial. *Anales del Instituto de la Patagonia* Ser Cs Hs 22: 37-48.
- GARCÍA-MORO, C. AND HERNÁNDEZ, M. (1997). Patrones de mortalidad en la población chilena de Tierra del Fuego. *Revista Española de Antropología Biológica* 18: 231-45.
- GARCÍA-MORO, C.; HERNÁNDEZ, M.; LALUEZA, C. (1997). Estimation of the optimum density of the Selk'nam from Tierra del Fuego: inferences about human dynamics in extreme environments. *American Journal of Human Biology* 9(6): 699-708.
- GARCÍA-MORO, C.; COLET, M.; MORAL, P.; GONZÁLEZ-MARTÍN, A.; HERNÁNDEZ, M. (2000a). Edad de la menarquia en la Isla de Pascua. En: Varela, T.A.(ed). *Investigaciones en biodiversidad humana*.p. 485-90. Universidad de Santiago de Compostela. Sociedad Española de Antropología Biológica.
- GARCÍA-MORO, C.; HERNÁNDEZ, M.; PASCUAL, J.; ESPARZA, M.; MARTINIC, M. (2000b). Evolución de la mortalidad en la población de Tierra del Fuego (Chile). En: Caro Dobón, L. et al.(eds). *Tendencias actuales de investigación en la Antropología Física Española* 335-42. Universidad de León.
- GARRIDO-LATORRE, F.; LAZCANO-PONCE, E.C.; LÓPEZ-CARRILLO, L.; HERNÁNDEZ-AVILA, M. (1996). Age of natural menopause among women in Mexico City. *Int J Gynaecol Obstet* 53(2): 159-66.
- GIBSON, M. AND MACE, R. (2002). The impact of labor-saving technology on first birth intervals in rural Ethiopia. *Human Biology* 74(1): 111-28.
- GOBER, P. (1997). The role of access in explaining state abortion rates. *Social Science and Medicine* 44(7): 1003-16.
- GOLDMAN, N.; PEBLEY, A.R.; WESTOFF, C.F.; PAUL, L.E. (1983). Tasas de falla anticonceptiva en América Latina. *International Family Planning Perspectives Especial castellano* 9-16.
- GOLDMAN, N.; WESTOFF, C.F.; PAUL, L.E. (1987). Variations in natural fertility: the effect of lactation and other determinants. *Population Studies* 41: 127

- GOMILA, J. (1975). Fertility differentials and their significance for human evolution. En: Salzano, F.M.(ed). *The role of natural selection in human evolution* 155-85. North-Holland Publishing Company. Amsterdam.
- GONZALES, G.F. AND ORTIZ, I. (1994). Age at menarche at sea level and high altitude in Peruvian women of different ethnic background. *American Journal of Human Biology* 6: 637-40.
- GONZÁLEZ JOSÉ, R. (2003). El poblamiento de la Patagonia. Análisis de la variación craneofacial en el contexto del poblamiento americano. *Tesis doctoral*. Universitat de Barcelona.
- GONZÁLEZ-MARTÍN, A. (1997). Biodemografía de la población andorrana. *Tesis doctoral*. Universitat de Barcelona.
- GOODMAN, M.J.; ESTIOKO-GRIFFIN, A.; BION GRIFFIN, P.; GROVE, J.S. (1985). Menarche, pregnancy, birth spacing and menopause among the Agta women foragers of Cagayan Province, Luzon, the Philippines. *Annals of Human Biology* 12(2): 169-77.
- GRAHAM, M.J.; LARSEN, U.; XU, X. (1999). Secular trend in age at menarche in China: a case study of two rural counties in Anhui Province. *Journal of Biosocial Science* 31(2): 257-67.
- GRAY, S.J. (1994). Comparison of effects of breast-feeding practices on birth-spacing in three societies: Nomadic Turkana, Gainj, and Quechua. *Journal of Biosocial Science* 26(1): 69-90.
- GREENBERG, R.A. AND WHITE, C. (1967). The sexes of consecutive sibs in human sibships. *Human Biology* 39: 374-404.
- GREKSA, L.P. (1990). Age of menarche in Bolivian girls of European and Aymara ancestry. *Annals of Human Biology* 17(1): 49-53.
- GREKSA, L.P. (2002). Population growth and fertility patterns in an Old Order Amish settlement. *Annals of Human Biology* 29(2): 192-201.
- GUSINDE, M. (1937). *Die Feuerland Indianer*. Verlag St.Gabriel. Mödling, Viena.

## H

- HABICHT, L.P.; DAVAZO, J.; BUTZ, W.P.; MEYERS, L. (1985). The contraceptive role of breastfeeding. *Population Studies* 39: 213
- HAJNAL, J. (1965). European marriage in perspective. En: Glass, D.V., Eversley, D.E.C.(eds). *Population in history: essays in historical demography*. Aldine, Chicago.
- HARDESTY, D.L. (1979). *Antropología ecológica*. Ed. Bellaterra S.A. Barcelona.
- HAUGHTON, J. (1997). Falling fertility in Vietnam. *Population Studies* 51: 203-11.
- HAWLEY, A.M. (1972). *Ecología humana*. Ed. Tecnos. Madrid.

- HEDIGER, M.L. AND STINE, R.A. (1987). Age at menarche based on recall information. *Annals of Human Biology* 14(2): 133-42.
- HENRIPIN, M.J. (1954). La fécondité des ménages canadiens au début du XVIII<sup>e</sup> siècle. *Population* 9: 61-84.
- HENRY, L. (1961). Some data on natural fertility. *Eugenics Quarterly* 8: 81-91.
- HENRY, L. (1964). Mortalité intra-utérine et fécondabilité. *Population* 19(5): 899-940.
- HENRY, L. (1969). Schémas de nuptialité: desequilibre des sexes et age au mariage. *Population* 6: 1061-72.
- HENRY, L. (1983). *Manual de demografía histórica*. Editorial Crítica. Barcelona.
- HERN, W.M. (1994). Cultural change, polygyny, and fertility among the Shipibo the Peruvian Amazon. *South Am Indian Stud* (4): 77-86.
- HERNÁNDEZ, M. (1992). Morfología craneal de las etnias de la Tierra del Fuego: diferencias sexuales e intergrupales. *Anales del Instituto de la Patagonia Ser Cs Hs* 21: 81-98.
- HERNÁNDEZ, M. AND GARCÍA-MORO, C. (1987). Evolución de la edad de menarquia en Cataluña (1909-1965). En: *Antropología-Etnografía* 4: 291-8. Ed. Eusko Ikaskuntza, S.A. Donostia.
- HERNÁNDEZ, M. AND GARCÍA-MORO, C. (1989). Edad de menarquia y parámetros de fecundidad en mujeres españolas antes del descenso de natalidad. *Trabajos de Antropología* 21(3): 223-33.
- HERNÁNDEZ, M.; GARCÍA-MORO, C.; MARTINIC, M. (1993). Endogamia matrimonial y mezcla en el proceso colonizador de la región magallánica (1885-1920). *Anales del Instituto de la Patagonia Ser Cs Hs* 22: 49-71.
- HERNÁNDEZ, M.; GARCÍA-MORO, C.; MARTINIC, M. (1995). Reproducción de la población colonizadora de la Patagonia chilena. *Anales del Instituto de la Patagonia Ser Cs Hs* 23: 53-65.
- HERNÁNDEZ, M. AND GARCÍA-MORO, C. (1997a). El poblamiento de Tierra del Fuego (Chile): estudio de los matrimonios. *Revista Española de Antropología Biológica* 18: 131-47.
- HERNÁNDEZ, M. AND GARCÍA-MORO, C. (1997b). Estacionalidad de los nacimientos en la población colonizadora de la Región Magallánica (Patagonia, Chile). *Estudios de Antropología Biológica* 8: 243-57.
- HERNÁNDEZ, M.; GARCÍA-MORO, C.; MARTINIC, M. (1998). Evolución demográfica de la población de Tierra del Fuego (Región de Magallanes). *Anales del Instituto de la Patagonia Ser Cs Hs* 26: 41-68.
- HERNÁNDEZ, M.; GARCÍA-MORO, C.; ESPARZA, M.; PASCUAL, J.; MARTINIC, M. (2000). Biodemografía de la colonización de Tierra del Fuego. En: Caro Dobón, L. et

- al.(eds). *Tendencias actuales de investigación en la antropología física española* 281-8. Universidad de León.
- HILL, A.G. (1990). Understanding recent fertility trends in the Third World. En: Landers, J., Reynolds, V.(eds). *Fertility and resources* 146-63. Cambridge University Press. Cambridge.
- HOBCRAFT, J.; MCDONALD, J.W.; RUTSTEIN, S. (1983). Child spacing effects on infant and child mortality. *Population Index* 49(4): 585-618.
- HOBCRAFT, J. AND LITTLE, R.J.A. (1984). Fertility exposure analysis: a new method for assessing the contribution of proximate determinants to fertility differentials. *Population Studies* 38: 21-45.
- HOBCRAFT, J.; MCDONALD, J.W.; RUTSTEIN, S. (1985). Demographic determinants of infant and early child mortality: a comparative analysis. *Population Studies* 39: 363.
- HOEM, B. AND HOEM, J.M. (1989). The impact of women's employment at second and third births in Modern Sweden. *Population Studies* 43: 47-67.

## I

INE. (1992). *Censos de población*. Chile.

INE. (1996). *Anuario de demografía* 1995. Santiago de Chile.

## J

- JAMES, W.H. (1994). Cycle day of insemination, sex ratio of offspring and duration of gestation. *Annals of Human Biology* 21(3): 263-6.
- JAMES, W.H. (1997). Sex ratio, coital rate, hormones and time of fertilization within the cycle. *Annals of Human Biology* 24(5): 403-9.
- JOHNSTON, F.E. (1974). Control of age at menarche. *Human Biology* 46(1): 159-71.
- JOHNSTON, S.L. (2001). Associations with age at natural menopause in Blackfeet women. *American Journal of Human Biology* 13: 512-20.
- JOSEPHSON, S.C. (2002). Does polygyny reduce fertility? *American Journal of Human Biology* 14(2): 222-32.
- JUNQUEIRA DO LAGO, M.; FAERSTEIN, E.; DE SOUZA LOPES, C.; WERNECK, G.L. (2003). Family socio-economic background modified secular trends in age at menarche: evidence from the Pró-Saúde Study (Rio de Janeiro, Brazil). *Annals of Human Biology* 30(3): 347-52.

## K

- KAC, G.; COELHO, M.A.; VELÁSQUEZ-MELENDEZ, G. (2000). Secular trend in age at menarche for women born between 1920 and 1979 in Rio de Janeiro, Brazil. *Annals of Human Biology* 27(4): 423-8.
- KALULE-SABITI, I. (1984). Bongaarts' proximate determinants of fertility applied to group data from the Kenya Fertility Survey 1977/78. *Journal of Biosocial Science* 16: 205-18.
- KAPRIO, J.; RIMPELÄ, A.; WINTER, T.; VIKEN, R.J.; RIMPELÄ, M.; ROSE, R.J. (1995). Common genetic influences on BMI and age at menarche. *Human Biology* 67(5): 739-53.
- KHALIFA, M.A. (1986). Determinants of natural fertility in Sudan. *Journal of Biosocial Science* 18: 325-36.
- KHAN, A.D.; SCHROEDER, D.G.; MARTORELL, R.; HAAS, J.D.; RIVERA, J. (1996). Early childhood determinants of age at menarche in rural Guatemala. *American Journal of Human Biology* 8(6): 717-23.
- KNODEL, J. (1968). Infant mortality and fertility in three Bavarian villages: an analysis of family histories from the 19th Century. *Population Studies* 22: 297-318.
- KNODEL, J. (1977). Breastfeeding and population growth. *Science* 198: 1111.
- KNODEL, J. (1978). Natural fertility in pre-industrial Germany. *Population Studies* 32(3): 481-510.
- KOMLOS, J. (1989). The age at menarche and age at first birth in an undernourished population. *Annals of Human Biology* 16(5): 463-6.
- KRITZ, M.M. AND GURAK, D.T. (1989). Women's status, education and family formation in Sub-Saharan Africa. *International Family Planning Perspectives* 15(3): 100-5.
- KWAWUKUME, E.Y.; GHOSH, T.S.; WILSON, J.B. (1993). Menopausal age of Ghanaian women. *International Journal of Gynecology and Obstetrics* 40: 151-5.

## L

- LANATA, J.L. (2000). *The world's southernmost foragers. The native diversity of Tierra del Fuego.*[Sin publicar]
- LATTES, A.E. (1973). Las migraciones en la Argentina entre mediados del siglo XIX y 1960. En: Lattes, A.E., Somoza, J.L.(eds). *Temas de población de la Argentina. Aspectos demográficos* 63-79. CELADE. Santiago de Chile.
- LEIDY, L.E. (1998). Menarche, menopause, and migration: implications for breast cancer research. *American Journal of Human Biology* 10(4): 451-7.

- LEIDY, L.E. (1999). Effect of exclusion: rates of hysterectomy and comparisons of age at natural menopause. *American Journal of Human Biology* 11(5): 687-93.
- LEIDY, L.E. (2001). Menopause as a measure of population health: an overview. *American Journal of Human Biology* 13: 429-33.
- LEJARRAGA, H. (1980). Age of menarche in urban Argentinian girls. *Annals of Human Biology* 7(6): 579-81.
- LERIDON, H. AND MENKEN, J. (1979). *Natural fertility. Patterns and determinants of natural fertility: proceedings of a seminar on natural fertility*. Ordina Editions. Liège.
- LI, C.C. (1975). *Path analysis. A primer*. The Boxwood Press. Pacific Grove, California.
- LIESTOL, K. (1982). Social conditions and menarcheal age: the importance of early years of life. *Annals of Human Biology* 9(6): 521-37.
- LIN, W.S.; CHEN, A.C.N.; SU, J.Z.X.; ZHU, F.C.; XING, W.H.; LI, J.Y.; YE, G.S. (1992). The menarcheal age of Chinese girls. *Annals of Human Biology* 19(5): 503-12.
- LIVI-BACCI, M. (1993). *Introducción a la demografía*. Editorial Ariel, S.A. Barcelona.
- LOEBNER, H. AND DRIVER, E.D. (1973). Differential fertility in Central India: a path analysis. *American Journal of Physical Anthropology* 10(3): 329-50.
- LOESCH, D.Z.; HUGGINS, R.; ROGUCKA, E.; HOANG, N.H.; HOPPER, J.L. (1995). Genetic correlates of menarcheal ages: a multivariate twin study. *Annals of Human Biology* 22(6): 479-90.
- LUC, N.; MINH THANG, N.; SWENSON, I.E.; BICH SAN, P. (1993). Selected determinants of fertility in Vietnam: age at marriage, marriage to first birth interval and age at first birth. *Journal of Biosocial Science* 25(3): 303-10.
- LUNA, F. (1981). *Biología de la población alpujarreña: evolución y estructura*. Universitat de Barcelona.
- LUNA, F. AND FUSTER, V. (1990). Reproductive pattern in a rural Mediterranean population: La Alpujarra, Spain. *Journal of Biosocial Science* 22: 501-6.
- LUNA, F.; FERNÁNDEZ-SANTANDER, A.; MORAL, M.E.; POLO, V.; FÚSTER, V. (1994). Descripción de la abortividad en la Alpujarra: medida, variabilidad y factores determinantes. *Actas 8 congreso SEAB* 417-29.
- LUNA, F. AND FUSTER, V. (1999). Determinants of protogenetic interval in a West Mediterranean rural population: La Alpujarra (Southeast Spain). *Anthrop Anz* 57(4): 319-24.
- LUOTO, R.; KAPRIO, J.; UUTELA, A. (1994). Age at natural menopause and sociodemographic status in Finland. *American Journal of Epidemiology* 139(1): 64-76.

## M

- MADRIGAL, L. (1991a). Menarcheal age and spontaneous abortion: further evidence for a connection. *American Journal of Human Biology* 3(6): 625-8.
- MADRIGAL, L. (1991b). The reliability of recalled estimates of menarcheal age in a sample of older women. *American Journal of Human Biology* 3(2): 105-10.
- MADRIGAL, L.; RELETHFORD, J.H.; CRAWFORD, M.H. (2003). Heritability and anthropometric influences on human fertility. *American Journal of Human Biology* 15: 16-22.
- MAEDER, E.J.A. (1969). *Evolución demográfica argentina desde 1810 a 1869*. Eudeba, editorial universitaria. Buenos Aires.
- MALIK, S.L. AND HAUSPIE, R.C. (1986). Age at menarche among high altitude bogs of Ladakh (India). *Human Biology* 58(4): 541-8.
- MALINA, R.M.; CHUMLEA, C.; DUTTON STEPICK, C.; GUTIERREZ LOPEZ, F. (1977). Age of menarche in Oaxaca, Mexico, schoolgirls, with comparative data for other areas of Mexico. *Annals of Human Biology* 4(6): 551-8.
- MALINA, R.M. (1983). Menarche in athletes: a synthesis and hypothesis. *Annals of Human Biology* 10(1): 1-24.
- MALINA, R.M.; RYAN, R.C.; BONCI, C.M. (1994). Age at menarche in athletes and their mothers and sisters. *Annals of Human Biology* 21(5): 417-22.
- MALWADE BASU, A. (1993). Cultural influences on the timing of first births in India: large differences that add up to little difference. *Population Studies* 47(1): 85-95.
- MARGALEF, R. (1991). *Ecología*. Editorial Omega S.A. Barcelona.
- MARTINIC, M. (1975). Origen y evolución de la inmigración extranjera en la colonia de Magallanes entre 1870 y 1890. *Anales del Instituto de la Patagonia* 6: 5-41.
- MARTINIC, M. (1982). *La Tierra de los Fuegos*. Municipalidad de Porvenir. Porvenir.
- MARTINIC, M. (1988). La inmigración europea en Magallanes (1891-1920). *Anales del Instituto de la Patagonia Ser Cs Ss* 18: 11-34.
- MARTINIC, M. (1992a). *Historia de la Región Magallánica*. Vols. I y II. Alfa Beta Impresiones. Santiago de Chile.
- MARTINIC, M. (1992b). La inmigración croata en Magallanes. Apellidos y origen regional. *Anales del Instituto de la Patagonia Ser Cs Hs* 21: 17-32.
- MARTINIC, M. (1999). La inmigración chilota en Magallanes. Apreciación histórica sobre sus causas, características y consecuencias. *Anales del Instituto de la Patagonia Ser Cs Hs* 27-47.

- MARTUZZI-VERONESI, F. AND GUERESI, P. (1994). Trend in menarcheal age and socioeconomic influence in Bologna (Northern Italy). *Annals of Human Biology* 21(2): 187-96.
- MASCIE-TAYLOR, C.G.N. (1986). Marital distances, age at marriage and husband's social group in a contemporary Cambridge sample. *Annals of Human Biology* 13: 411-5.
- MASNICK, G.S. AND KATZ, S.H. (1976). Adaptive childbearing in a North Slope Eskimo community. *Human Biology* 48(1): 37-58.
- MASNICK, G.S. (1979). The demographic impact of breastfeeding: a critical review. *Human Biology* 51(2): 109-25.
- MASSONE, M. (1996). Hombre temprano y paleoambiente en la región de Magallanes: evaluación crítica y perspectivas. *Anales del Instituto de la Patagonia Ser Cs Hs* 24 82-98.
- MATKOVIC, V.; ILICH, J.Z.; SKUGOR, M.; BADENHOP, N.E.; GOEL, P.; CLAIRMONT, A.; KLISOVIC, D.; NAHHAS, R.W.; LANDOLL, J.D. (1997). Leptin is inversely related to age at menarche in human females. *Journal of Clinical Endocrinology and Metabolism* 82(10): 3239-45.
- MCALPINE, P.J. AND SIMPSON, N.E. (1976). Fertility and other demographic aspects of the Canadian Eskimo communities of Igloolik and Hall Beach. *Human Biology* 48(1): 113-38.
- MCNEILLY, A.S.; GLASIER, A.; HOWIE, P.W.; HOUSTON, M.J.; COOK, A.; BOYLE, H. (1983). Fertility after childbirth: pregnancy associated with breastfeeding. *Clinical endocrinology* 19: 167-74.
- MCNEILLY, A.S.; HOWIE, P.W.; GLASIER, A. (1988). Lactation and the return of ovulation. En: Diggory, P. et al.(eds). *Natural Human Fertility. Social and biological determinants* 102-17. MacMillan Press and The Eugenics Society. London.
- MENKEN, J. (1979). Seasonal migration and seasonal variations in fecundability: Effects of birth rates and birth intervals. *Demography* 16: 103-20.
- MEYER, J.M.; EAVES, L.J.; HEATH, A.C.; MARTIN, N.G. (1991). Estimating genetic influences on the age-at-menarche: a survival analysis approach. *American Journal of Medical Genetics* 39(2): 148-54.
- MILLER, D.S. AND HUSS-ASHMORE, R. (1989). Do reproductive patterns affect maternal nutritional status? An analysis of maternal depletion in Lesotho. *American Journal of Human Biology* 1(4): 409-19.
- MILLER, J.E. (1989). Is the relationship between birth intervals and perinatal mortality spurious? Evidence from Hungary and Sweden. *Population Studies* 43: 479

- MONTEITH, R.S.; WARREN, C.W.; CACERES, J.M.; GOLDBERG, H.I. (1991). Changes in contraceptive use and fertility: El Salvador, 1978-88. *Journal of Biosocial Science* 23(1): 79-89.
- MONTGOMERY, D.C. (1991). *Diseño y análisis de experimentos*. Grupo Editorial Iberoamericano. México.
- MORABIA, A. AND COSTANZA, M.C. (1998). The World Health Organization Collaborative Study of Neoplasia and Steroid Contraceptives: International variability in ages at menarche, first livebirth and menopause. *American Journal of Epidemiology* 148: 1195-205.
- MORENO, L. (1991). An alternative model of the impact of the proximate determinants on fertility change: evidence from Latin America. *Population Studies* 45: 313-337.

## N

- NATH, D.C.; SINGH, K.K.; LAND, K.C.; TALUKDAR, P.K. (1993). Age of marriage and length of the first birth interval in a traditional Indian society: life table and hazards model analysis. *Human Biology* 65(5): 783-97.
- NATH, D.C. AND LAND, K.C. (1994). Sex preference and third birth intervals in a traditional Indian society. *Journal of Biosocial Science* 26(3): 377-88.
- NATH, D.C.; LAND, K.C.; GOSWAMI, G. (1999). Effects on the status of women on the first-birth interval in Indian urban society. *Journal of Biosocial Science* 31(1): 55-69.
- NATH, D.C.; LEONETTI, D.L.; STEELE, M.S. (2000). Analysis of birth intervals in a non-contracepting Indian population: an evolutionary ecological approach. *Journal of Biosocial Science* 32(3): 343-54.
- NAVARRO AVARIA, L. (1908). *Censo Jeneral de población i edificación, industria, ganadería y minería del Territorio de Magallanes, República de Chile, levantado por acuerdo de la comisión de alcaldes el día 8 de Setiembre de 1906*. Punta Arenas.
- NONAKA, K.; MIURA, T.; PETER, K. (1994). Recent fertility decline in Dariusleut Hutterites: an extension of Eaton and Mayer's Hutterite fertility study. *Human Biology* 66(3): 411-20.
- NONAKA, K.; DEJARDINS, B.; CHARBONNEAU, H.; LÉGARÉ, J.; MIURA, T. (1999). Human sex ratio at birth and mother's birth season: multivariate analysis. *Human Biology* 71(5): 875-84.
- NORTH, K.E.; MACCLUER, J.W.; COWAN, L.D.; HOWARD, B.V. (2000). Gravidity and parity in postmenopausal American Indian women: The Strong Heart Study. *Human Biology* 72(3): 397-414.

## O

- O'CONNOR, K.A.; HOLMAN, D.J.; WOOD, J.W. (2001). Menstrual cycle variability and the perimenopause. *American Journal of Human Biology* 13(4): 465-78.
- ODIMEGWU, C.O. AND ZERAI, A. (1996). Understanding the proximate determinants of fertility of a Nigerian ethnic group. *Genus* 52(3-4): 67-87.
- ODIMEGWU, C.O. AND ZERAI, A. (2001). Fertility transition in Communist Albania, 1950-1990. *Population Studies* 55(3): 309-318.
- OMS. (1978). *Classification Internationale des Maladies*. Genève.

## P

- PAGE, R.D.M. AND HOLMES, E.C. (1998). *Molecular evolution. A Phylogenetic Approach*. Blackwell Science. London.
- PANTELIDES, E. (1992). Más de un siglo de fecundidad en la Argentina: su evolución desde 1869. *Notas de población* 56: 8-106.
- PANTER-BRICK, C. (1996). Proximate determinants of birth seasonality and conception failure in Nepal. *Population Studies* 50(2): 203-20.
- PAPADIMITROU, A.; GOUSIA, E.; PITAOULI, E.; TAPAKI, G.; PHILIPPIDIS, P. (1999). Age at menarche in Greek girls. *Annals of Human Biology* 26(2): 175-8.
- PARAZZINI, F.; NEGRI, E.; LA VECCHIA, C. (1992). Reproductive and general lifestyle determinants of age at menopause. *Maturitas* 15(2): 141-9.
- PASCUAL, J.; GARCÍA-MORO, C.; HERNÁNDEZ, M. (2000a). Influencia de algunos factores ambientales y demográficos sobre la estacionalidad de los nacimientos en la población de Tierra del Fuego. En: Varela, T.A.(ed). *Investigaciones en biodiversidad humana* 124-9. Universidad de Santiago de Compostela.
- PASCUAL, J.; GARCÍA-MORO, C.; HERNÁNDEZ, M. (2000b). Non-seasonality of births in Tierra del Fuego (Chile). *Annals of Human Biology* 27(5): 517-24.
- PASCUAL, J.; GARCÍA-MORO, C.; HERNÁNDEZ, M. (2003). Intervalo fértil en mujeres colonizadoras de Tierra del Fuego (Chile). En: Aluja, M.P. et al.(eds). *Antropología y biodiversidad* 293-9. Edicions Bellaterra S.L. Barcelona.
- PASCUAL, J.; GARCÍA-MORO, C.; HERNÁNDEZ, M. (2004a). Biological and behavioral determinants of fertility in Tierra del Fuego. *American Journal of Physical Anthropology* (via web).
- PASCUAL, J.; HERNÁNDEZ, M.; MUÑOZ-TUDURÍ, M.; GARCÍA-MORO, C. (2004b). Intervalo fecundo en mujeres colonizadoras de Tierra del Fuego (Chile). En: Egocheaga, J.E.(ed). *Biología de poblaciones humanas: diversidad, tiempo, espacio* 799-808. Universidad de Oviedo.

- PASQUET, P.; MANGUELLE-DICOUM BIYONG, A.; RIKONG-ADIE, H.; BEFIDI-MENGUE, R.; GARBA, M.T.; FROMENT, A. (1999). Age at menarche and urbanization in Cameroon: current status and secular trends. *Annals of Human Biology* 26(1): 89-97.
- PEBLEY, A.R.; HERMALIN, A.I.; KNODEL, J. (1991). Birth spacing and infant mortality: evidence for eighteenth and nineteenth century German villages. *Journal of Biosocial Science* 23(4): 445-59.
- PENNINGTON, R. AND HARPENDING, H. (1991). Infertility in Herero pastoralists of Southern Africa. *American Journal of Human Biology* 3(2): 135-53.
- PÉREZ-PÉREZ, A.M. AND LALUEZA FOX, C. (1992). Indicadores de presión ambiental en aborígenes de Fuego-Patagonia. Un reflejo de la adaptación a un ambiente adverso. *Anales del Instituto de la Patagonia Ser Cs Hs* 21: 99-108.
- PISANO, E. (1981). Bosquejo fitogeográfico de Fuego-Patagonia. *Anales del Instituto de la Patagonia* 12: 159-71.
- POTTER, R. AND KOBRIN, F.E. (1982). Some effects of spouse separation on fertility. *Demography* 19: 79-95.
- PRESSAT, R. (1979). *Introducción a la demografía*. Ed. Ariel. Barcelona.
- PROOS, L.A.; HOTVANDER, Y.; TUVENO, T. (1991). Menarcheal age and growth pattern of Indian girls adopted in Sweden.I. Menarcheal age. *Acta Paediatric Scandinavica* 80: 852-8.

## R

- RAHIM, A. AND RAM, B. (1993). Emerging patterns of child-spacing in Canada. *Journal of Biosocial Science* 25(2): 155-67.
- REINIS, K.I. (1992). The impact of the proximate determinants of fertility: evaluating Bongaart's and Hobcraft and Little's methods of estimation. *Population Studies* 46: 309-26.
- REINIS, K.I. (1994). The impact of the proximate determinants of fertility: a rejoinder to comments from J. Bongaarts. *Population Studies* 48: 161-2.
- REYNOLDS, R.F. AND OBERMEYER, C.M. (2001). Age at natural menopause in Beirut, Lebanon: the role of reproductive and lifestyle factors. *Annals of Human Biology* 28(1): 21-9.
- ROBINSON, W.C. (1987). Regional variation in the age-specific natural fertility curve. *Journal of Biosocial Science* 19: 57-64.
- RODRÍGUEZ-OTERO, H.; BLANCO VILLEGAS, M.J.; CARO, L.; SÁNCHEZ COMPADRE, E.; LÓPEZ MARTÍNEZ, B. (2000). Factores asociados a la fertilidad en

- la comarca leonesa de La Cabrera. En: Caro Dobón, L. et al.(eds). *Tendencias actuales de Investigación en la Antropología Física Española* 273-80. Universidad de León.
- RONA, R. AND PEREIRA, G. (1974). Factors that influence age of menarche in girls in Santiago, Chile. *Human Biology* 46(1): 33-42.
- ROSS, J.L.; BLANGERO, J.; GOLDSTEIN, M.C.; SCHULER, S. (1986). Proximate determinants of fertility in the Kathmandu Valley, Nepal: an anthropological case study. *Journal of Biosocial Science* 18: 179-96.

## S

- SAADAT, M. (2004). Sex ratio associations: opinions, theories, and facts. *Fertility and sterility* 81(1): 225
- SAADAT, M. AND ANSARI-LARI, M. (2004). Sex ratio of birth during wartime and psychological tensions. *Human Reproduction* 19(2): 465
- SALCES, I. (2002). Determinantes genéticos y ambientales del crecimiento y composición corporal en la provincia de Vizcaya: investigación sobre la transmisión familiar y variaciones con la edad. *Tesis doctoral*. Universidad del País Vasco.
- SALCES, I.; REBATO, E.M.; SUSANNE, C.; SAN MARTÍN, L.; ROSIQUE, J. (2001). Familial resemblance for the age at menarche in Basque population. *Annals of Human Biology* 28(2): 143-56.
- SÁNCHEZ, B. (1992). *La inmigración española en Argentina. Siglos XIX y XX*. Júcar. Barcelona.
- SCOTT, S. AND DUNCAN, C.J. (2000). Interacting effects of nutrition and social class differentials on fertility and infant mortality in a pre-industrial population. *Population Studies* 54: 71-87.
- SEGALEN, M. AND JACQUARD, A. (1973). Isolement sociologique et isolement génétique. *Population* 3: 551-70.
- SHEN, C. AND WILLIAMSON, J.B. (1999). Maternal mortality, women's status, and economic dependency in less developed countries: a cross-national analysis. *Social Science and Medicine* 49: 197-214.
- SHRYOCK, H.S. AND SIEGEL, J.S. (1976). *The methods and materials of demography*. Academic Press. New York.
- SIMÓ, C. (1994). Le comportement démographique de la bourgeoisie en Nouvelle-France. *Tesis doctoral*. Université de Montréal.
- SINGH, L. AND AHUJA, S. (1980). An estimation of reproductive performance in the women of Punjab. *Anthrop Anz* 37: 266-70.
- SINGH, S.; CASTERLINE, J.B.; CLELAND, J. (1985). The proximate determinants of fertility: sub-national variations. *Population Studies* 39:113-35.

- SINGH, K.K.; SUCHINDRAN, C.M.; SINGH, V.; RAMAKUMAR, R. (1993a). Analysis of birth intervals in India's Uttar Pradesh and Kerala states. *Journal of Biosocial Science* 25(2): 143-53.
- SINGH, K.K.; SUCHINDRAN, C.M.; SINGH, K. (1993b). Effects of breastfeeding after resumption of menstruation on waiting time to next conception. *Human Biology* 65(1): 71-86.
- SINGH, D. AND ZAMBARANO, R.J. (1997). Offspring sex ratio in women with android body fat distribution. *Human Biology* 69(4): 545-56.
- SMITH, R.M. (1988). Natural fertility in Pre-industrial Europe. En: Diggory, P. et al.(eds). *Natural human fertility. Social and biological determinants* 70-88. MacMillan Press and The Eugenics Society. London.
- SMITH, T.E. (1960). The Cocos-Keeling Islands: a demographic laboratory. *Population Studies* 14: 94-130.
- SOKAL, R.R. AND ROHLF, F.J. (1995). *Biometría. Principios y métodos estadísticos en la investigación biológica*. H. Blume Ediciones. Madrid.
- ST.GEORGE, D.; EVERSON, P.M.; STEVENSON, J.C.; TEDROW, L. (2000). Birth interval and early childhood mortality in a migrating Mennonite community. *American Journal of Human Biology* 12: 50-63.
- STERN, C. (1979). *Genética humana*. Editorial Alhambra. Madrid.
- STEVENSON, J.C.; EVERSON, P.M.; CRAWFORD, M.H. (1989). Changes in completed family size and reproductive span in Anabaptist populations. *Human Biology* 61(1): 99-115.

## I

- THOMAS, F.; RENAUD, F.; BENEFICE, E.; DE MEEÜS, T.; GUEGAN, J.F. (2001). International variability of ages at menarche and menopause: patterns and main determinants. *Human Biology* 73(2): 271-90.
- TIBILETTI, M.G.; TESTA, G.; VEGETTI, W.; ALAGNA, F.; TABORELLI, M.; DALPRA, L.; BOLIS, P.F.; CROSIGNANI, P.G. (1999). The idiopathic forms of premature menopause and early menopause show the same genetic pattern. *Human Reproduction* 14(11): 2731-4.
- TORRES MIMICA, T. (1999). *Memorias fueguinas*. Municipalidad de Porvenir.
- TRELOAR, A.E. (1974). Menarche, menopause, and intervening fecundability. *Human Biology* 46(1): 89-107.
- TRELOAR, S.A. AND MARTIN, N.G. (1990). Age at menarche as a fitness trait: nonadditive genetic variance detected in a large twin sample. *American Journal of Human Genetics* 47(1): 137-48.

- TRELOAR, S.A.; DO, K.A.; MARTIN, N.G. (1998). Genetic influences on the age at menopause. *Lancet* 352: 1084-5.
- TRUSSELL, J.; MARTIN, L.G.; FELDMAN, R.; PALMORE, J.A.; CONCEPCION, M.; ABU BAKAR, D.N.D. (1985). Determinants of birth-interval length in the Philippines, Malaysia, and Indonesia: a hazard-model analysis. *Demography* 22(2): 145-68.
- TRUSSELL, J. AND WILSON, C. (1985). Sterility in a population with natural fertility. *Population Studies* 39: 269-86.
- TRUSSELL, J. (1986). The impact of birthspacing on fertility. *International Family Planning Perspectives* 12(3): 80-2.
- TRYGGVADÓTTIR, L.; TULINIUS, H.; LARUSDÓTTIR, M. (1994). A decline and a half in mean age at menarche in Iceland. *Annals of Human Biology* 21(2): 179-86.

## U

- UDRY, J.R. AND CLIQUET, R.L. (1982). A cross-cultural examination of the relationship between ages at menarche, marriage, and first birth. *Demography* 19(1): 53-63.
- UNDERWOOD, J.H. (1995). Sex ratio of livebirths in Micronesia. *American Journal of Human Biology* 7: 431-5.

## V

- VAN DE WALLE, E. (1978). La nupcialidad y fecundidad marital. En: Glass, D.V., Revelle, R.(eds). *Población y cambio social: estudios de demografía histórica* 143-56. Ed Tecnos. Madrid.
- VAN DE WALLE, E. AND VAN DE WALLE, F. (1988). Birthspacing and abstinence in Sub-Saharan Africa. *International Family Planning Perspectives* 14(1): 25-46.
- VAN LANDINGHAM, M.; TRUSSELL, J.; GRUMMER-STRAWN, L. (1991). Contraceptive and health benefits of breastfeeding: a review of the recent evidence. *International Family Planning Perspectives* 17(4): 131-6.
- VAN SCHAREN, F. AND SUSANNE, C. (1974). Assortiment matrimonial: étude de quelques caractères anthropologiques et psychologiques. *Homo* 25: 146-58.
- VAREA, C. (1990). Patrones reproductores y fertilidad en una población tradicional de Marruecos (Amizmiz, Marrakech). *Tesis doctoral*. Universidad Autónoma de Madrid.
- VAREA, C. (1993). Marriage, age at last birth and fertility in a traditional moroccan population. *Journal of Biosocial Science* 25(1): 1-15.
- VAREA, C.; BERNIS, C.; ELIZONDO, S. (1993). Physiological maturation, reproductive patterns, and female fecundability in a traditional Moroccan population. *American Journal of Human Biology* 5: 297-304.

VAREA, C.; BERNIS, C.; MONTERO, P.; ARIAS, S.; BARROSO, A.; GONZÁLEZ, B. (2000). Secular trend and intrapopulational variation in age at menopause in Spanish women. *Journal of Biosocial Science* 32(3): 383-93.

VINUESA, J.; ZAMORA, F.; GÈNOVA, R.; SERRANO, P.; RECAÑO, J. (1997). *Demografía. Análisis y proyecciones*. Vinuesa, J. (ed) Editorial Síntesis. Madrid.

VISARIA, P.M. (1967). Sex ratio at birth in territories with a relatively complete registration. *Eugenics Quarterly* 14: 132-42.

## W

WARREN, C.W.; GOLDBERG, H.I.; OGE, L.; PEPION, D.; FRIEDMAN, J.S.; HELGERSON, S.; LA MERE, E.M. (1990). Assessing the reproductive behavior of On- and Off-reservation American Indian Females: Characteristics of two groups in Montana. *Social Biology* 37(1-2): 69-83.

WEINBERGER, M.B. (1987). The relationship between women's education and fertility: selected findings from the World Fertility Surveys. *International Family Planning Perspectives* 13(2): 35-46.

WESTOFF, C.F. (1990). Reproductive intentions and fertility rates. *International Family Planning Perspectives* 16(3): 84-9.

WHELAN, E.A.; SANDLER, D.P.; MCCONNAUGHEY, D.R.; WEINBERG, C.R. (1990). Menstrual and reproductive characteristics and age at natural menopause. *American Journal of Epidemiology* 131(4): 625-32.

WOOD, J.W. (1994). *Dynamics of human reproduction. Biology, biometry, demography*. Aldine de Gruyter. New York.

WRIGLEY, E.A. (1969). *Population and history*. World University Library. London.

WYSHAK, G. (1969). Intervals between births in families containing one set of twins. *Journal of Biosocial Science* 1: 337-51.

## X

XERCAVINS COMAS, A. (1984). Notas sobre el clima de Magallanes (Chile). *Revista de Geografía* 18: 95-121.

## Y

YUSUF, F. AND ECKSTEIN, G. (1980). Fertility of migrant women in Australia. *Journal of Biosocial Science* 12: 179-90.

## Z

- ZAMORA, E. AND SANTANA, A. (1979). Características climáticas de la costa occidental de la Patagonia entre las latitudes 46°40' y 56°30' S. *Anales del Instituto de la Patagonia* Ser Cs Hs 21 47-61.
- ZAVALA DE COSÍO, M.E. (1992). La transición demográfica en América Latina y en Europa. *Notas de población* 56: 11-32.
- ZODGEKAR, A.V. (1980). The fertility transition in the non-Maori population of New Zealand. *Journal of Biosocial Science* 12(2): 165-78.
- ZURFLUH, A. (1992). *¿Superpoblación?* Ed. Rialp. Madrid.