

# Journal of Biosocial Science

Incorporating **Biology and Society** of the Galton Institute

**Editor:** C. G. N. Mascie-Taylor

## **Editorial Advisory Panel**

J. L. Boldsen  
D. A. Coleman  
P. L. C. Diggory

G. A. Harrison  
A. G. Hill  
G. W. Lasker

D. M. Potts  
P. F. Selman  
I. Timæus

S. J. Ulijaszek  
V. Reynolds

## *For the Galton Institute*

J. A. Beardmore      R. Chester

## *Review Editor*

Erica Haimes

## **Associate Editor**

M. A. Herbertson

## **Consultant**

D. F. Roberts

VOLUME 24 (1992)

Published by

THE BIOSOCIAL SOCIETY

Cambridge, England

Published by  
The Biosocial Society  
Cambridge, England  
© Biosocial Society 1992

Printed in Great Britain by Galliard (Printers) Ltd, Great Yarmouth, Norfolk

# Journal of Biosocial Science

## Contents

Vol. 24

January 1992

No. 1

- 
- RENAN M. V. R. ALMEIDA, MAE THAMER AND ERNST O. ATTINGER *Characterisation of health and social development* page 1
- NAN E. JOHNSON AND A. J. M. SUFIAN *Effect of son mortality on contraceptive practice in Bangladesh* page 9
- M. MUJIBUR RAHMAN *Measurement of post-partum amenorrhoea in Bangladesh* page 17
- BERNICE A. KAPLAN, C. G. N. MASCIE-TAYLOR AND JESPER BOLDSSEN *Birth order and health status in a British national sample* page 25
- A. E. FINK, G. FINK, H. WILSON, J. BENNIE, S. CARROLL AND H. DICK *Lactation, nutrition and fertility and the secretion of prolactin and gonadotrophins in Mopan Mayan women* page 35
- VALERIE FILDES *Breast-feeding in London, 1905–19* page 53
- JEFFREY E. KALLAN AND EUGENE A. ENNEKING *Seasonal patterns of spontaneous abortion* page 71
- W. I. DE SILVA *Response reliability of demographic data: a longitudinal study in Sri Lanka* page 77
- KATHLEEN FORD *Correlation between subsequent lengths of postpartum amenorrhoea in a prospective study of breast-feeding women in rural Bangladesh* page 89
- DAVID LESTER AND BIJOU YANG *Fertility and suicide rates: a time series analysis in the United States* page 97
- VENANZIO VELLA, ANDREW TOMKINS, JOHN NIDKU AND TOM MARSHALL *Determinants of child mortality in south-west Uganda* page 103
- T. KOERTVELYESSY, M. H. CRAWFORD, M. PAP AND K. SZILAGYI *The influence of religious affiliation on surname repetition in marriages in Tiszaszalka, Hungary* page 113
- MOHAN SINGH *Changes in age at marriage of women in rural north India* page 123
- Short report*
- GABRIEL W. LASKER AND PAMELA D. RASPE *Given name relationships support surname genetics: a note and correction* page 131
- Debate*
- W. H. JAMES *Coital frequency and twinning—a comment* page 135
- Book reviews*
- ERICA HAIMES reviews *The Human Embryo: Aristotle and the Arabic and European Traditions* (edited by G. R. Dunstan) page 137

BERNICE A. KAPLAN reviews <i>Health and Lifestyles</i> (by M. Blaxter)	page 139
R. I. M. DUNBAR reviews <i>Phylogeny, Ecology and Behaviour</i> (by D. R. Brooks & D. A. McLennan)	page 139
DAVID J. CHIVERS reviews <i>Mammalian Reproductive Biology</i> (by F. H. Bronson)	page 141

---

Vol. 24

April 1992

No. 2

---

A. G. YOHANNES, K. STREATFIELD AND L. BOST <i>Child morbidity patterns in Ethiopia</i>	page 143
STEPHEN E. RADECKI AND LINDA J. BECKMAN <i>Determinants of child-bearing intentions of low-income women: attitudes versus life circumstances</i>	page 157
JESPER L. BOLDSSEN <i>Season of birth and recalled age at menarche</i>	page 167
ANN STIRLING FRISCH, DAVID J. KALLEN, ROBERT J. GRIFFORE AND EUGENE A. DOLANSKI <i>Biosocial variances and infant survival: a path analysis approach</i>	page 175
W. I. DE SILVA <i>Relationships of desire for no more children and socioeconomic and demographic factors in Sri Lankan women</i>	page 185
VIJAYAN K. PILLAI AND MARK CONAWAY <i>Immunisation coverage in Lusaka, Zambia: implications of the social setting</i>	page 201
ISIDRO BENITEZ, JULIETA DE LA CRUZ, AZUCENA SUPLIDO, VIRGILIO OBLEPIAS, KATHY KENNEDY AND CYNTHIA VISNESS <i>Extending lactational amenorrhoea in Manila: a successful breast-feeding education programme</i>	page 211
S. F. LIPSON AND P. T. ELLISON <i>Normative study of age variation in salivary progesterone profiles</i>	page 233
JOHN B. CASTERLINE, ELIZABETH C. COOKSEY AND ABDEL FATTAH ISMAIL <i>Infant and child mortality in rural Egypt</i>	page 245
HALIDA H. AKHTER AND SAIFUDDIN AHMED <i>Determinants of contraceptive continuation in rural Bangladesh</i>	page 261
D. F. ROBERTS AND T. C. DANN <i>Social class and diachronic trends in physique in young university women</i>	page 269
<i>Book reviews</i>	
D. F. ROBERTS reviews <i>El Hombre Irreductible: de la Complejidad de la Diversidad Humana a los Modelos Bio- y Demo-anthropologicos</i> (by C. Sauvain-Dugerdil)	page 281
ROBERT SNOWDEN reviews <i>Beyond the Family: The Social Organisation of Human Reproduction</i> (by A. F. Robertson)	page 282
P. C. LEE reviews <i>Elton's Ecologists: A History of the Bureau of Animal Population</i> (by P. Crocroft)	page 283

---

*Proceedings of the Workshop on Methodology and Protocol of Human Fertility Studies under Field Conditions*

- G. AINSWORTH HARRISON *Human fertility studies under field conditions: introduction* page 285
- J-C. THALABARD *The female reproductive axis and its modifications during the post-partum period* page 289
- L. ROSETTA *Aetiological approach of female reproductive physiology in lactational amenorrhoea* page 301
- PETER G. LUNN *Breast-feeding patterns, maternal milk output and lactational infecundity* page 317
- THIERRY BRUN *The assessment of total energy expenditure of female farmers under field conditions* page 325
- STANLEY J. ULJASZEK *Estimating energy and nutrient intakes in studies of human fertility* page 335
- C. J. K. HENRY *Estimates of metabolic adaptation in women living in developing countries: technical limitations* page 347
- C. G. N. MASCIE-TAYLOR *Endemic disease, nutrition and fertility in developing countries* page 355
- N. G. NORGAN *Maternal body composition: methods for measuring short-term changes* page 367
- O. A. DADA *Brief description of WHO protocol for data collection* page 379
- Round table discussion on research design, statistical aspects and data collection* page 383

---

ROBERT C. BAILEY, MARK R. JENIKE, PETER T. ELLISON, GILLIAN R. BENTLEY, ALISA M. HARRIGAN AND NADINE R. PEACOCK *The ecology of birth seasonality among agriculturalists in central Africa* page 393

CHARLOTTE HILLERVIK-LINDQUIST *Studies on perceived breast-milk insufficiency: relation to attitude and practice* page 413

- 
- A. I. CHOWDHURY, VINCENT FAUVEAU AND K. M. A. AZIZ *Effect of child survival on contraceptive use in Bangladesh* page 427
- DAVID HUBACHER, PATRICIA BAILEY, BARBARA JANOWITZ, FIDEL BARAHONA AND MARCO PINEL *Estimating infant mortality rates prospectively in Honduras* page 433
- ABBAS BHUIYA AND KIM STREATFIELD *A hazard logit model analysis of covariates of childhood mortality in Matlab, Bangladesh* page 447

YAW OHENEBA-SAKYI <i>Determinants of current contraceptive use among Ghanaian women at highest risk of pregnancy</i>	page 463
TESSA POLLARD, GILES UNGPAKORN AND G. AINSWORTH HARRISON <i>Some determinants of population variation in cortisol levels in a British urban community</i>	page 477
ULF HÖGBERG AND STIG WALL <i>Secular trends of twinning rate in Sweden</i>	page 487
EIICHI UCHIDA, SHUNICHI ARAKI AND KATSUYUKI MURATA <i>Socioeconomic factors affecting the longevity of the Japanese population: a study for 1980 and 1985</i>	page 497
JESPER L. BOLDSSEN <i>Geographical distribution of some Danish surnames: reflections of social and natural selection</i>	page 505
LINDA A. WEBSTER, JANET R. DALING, CARMEN MCFARLANE, DEANNA ASHLEY AND CHARLES W. WARREN <i>Prevalence and determinants of caesarean section in Jamaica</i>	page 515
DIMITRI PRYBYLSKI, WILLIAM A. ALTO, STEPHEN ROGERS AND HELEN PICKERING <i>Measurement of child mortality in association with a multipurpose birth certificate programme in the Southern Highlands Province of Papua New Guinea</i>	page 527
A. M. WEST, N. J. MACKINTOSH AND C. G. N. MASCIE-TAYLOR <i>Cognitive and educational attainment in different ethnic groups</i>	page 539
<i>Short report</i>	
SYLVIA KIRCHENGAST <i>Relations between fertility, body shape and menopause in Austrian women</i>	page 555
<i>Book reviews</i>	
SENGA BOND reviews <i>Experiences of Death: An Anthropological Account</i> (by J. Hockey)	page 561
G. AINSWORTH HARRISON reviews <i>Health and Class: The Early Years</i> (by C. Power <i>et al.</i> )	page 561
P. C. LEE reviews <i>The Egalitarians: Human and Chimpanzee. An Anthropological View of Social Organization</i> (by M. Power)	page 563
TOM SHAKESPEARE reviews <i>Constructing Deafness</i> (edited by S. Gregory & G. M. Hartley)	page 565
JENNY KITZINGER reviews <i>Taking it Lying Down: Sexuality and Teenage Motherhood</i> (by F. Hudson & B. Ineichen)	page 566
KATH M. MELIA reviews <i>Anthropology and Nursing</i> (by P. Holden & J. Littlewood)	page 567
ROBIN HUMPHREY reviews <i>Gender and Later Life: A Sociological View of Resources and Constraints</i> (by S. Arber & J. Ginn)	page 568
PETER DIGGORY reviews <i>Oral Contraception and Breast Cancer</i> (Report of Committee)	page 569
Abstracts of papers for the 1993 Workshop of the Biosocial Society	page 571
Author and Subject Index to Volume 24	page 573

**THIRTY-SECOND DARWIN LECTURE  
IN HUMAN BIOLOGY**

**under the auspices of the Galton Institute**

**AGGRESSION AND THE INSTITUTION OF WAR**

by

**Professor R. A. Hinde, FRS**

**Tuesday 10 November 1992 at 5.30 pm  
The Linnean Society, Burlington House, London W1**

---

# Population Studies

Managing Editor: E. Grebenik

Editors: T. Dyson, J. Hobcraft, M. Murphy and R. Schofield

Vol. 46, No. 2, July 1992

- C. VLASSOFF Progress and stagnation: changes in fertility and women's position in an Indian village  
K. E. KIERNAN Impact of family disruption in childhood on transitions made in young adult life  
M. MURPHY Economic models of fertility in post-war Britain—a conceptual and statistical re-interpretation  
J. KRUMINS & P. ZVIDRINS Recent mortality trends in the three Baltic republics  
G. FEICHTINGER & G. STEINMANN Immigration into a population with fertility below replacement level—the case of Germany  
J. TRUSSELL, L. GRUMMER-STRAWN, G. RODRIGUEZ & M. VANLANDINGHAM Trends and differentials in breastfeeding behaviour: evidence from the WFS and DHS  
K. I. REINIS The impact of the proximate determinants of fertility: evaluating Bongaart's and Hobcraft and Little's methods of estimation  
B. K. DEFO Mortality and attrition processes in longitudinal studies in Africa: an appraisal of the Iford surveys  
J. MAULDON Children's risks of experiencing divorce and remarriage: do disabled children destabilize marriages?  
Book reviews

## Contents

- A. I. CHOWDHURY, VINCENT FAUVEAU AND K. M. A. AZIZ *Effect of child survival on contraceptive use in Bangladesh* page 427
- D. HUBACHER, P. BAILEY, B. JANOWITZ, F. BARAHONA AND M. PINEL *Estimating infant mortality rates prospectively in Honduras* page 433
- ABBAS BHUIYA AND KIM STREATFIELD A hazard logit model analysis of covariates of childhood mortality in Matlab, Bangladesh page 447
- YAW OHENEBA-SAKYI *Determinants of current contraceptive use among Ghanaian women at highest risk of pregnancy* page 463
- TESSA POLLARD, GILES UNGPAKORN AND G. A. HARRISON *Some determinants of population variation in cortisol levels in a British urban community* page 477
- ULF HÖGBERG AND STIG WALL *Secular trends of twinning rate in Sweden* page 487
- E. UCHIDA, S. ARAKI AND K. MURATA *Socioeconomic factors affecting the longevity of the Japanese population: a study for 1980 and 1985* page 497
- JESPER L. BOLDSSEN *Geographical distribution of some Danish surnames: reflections of social and natural selection* page 505
- L. A. WEBSTER, J. R. DALING, C. MCFARLANE, D. ASHLEY AND C. W. WARREN *Prevalence and determinants of caesarean section in Jamaica* page 515
- DIMITRI PRYBYLSKI, WILLIAM A. ALTO, STEPHEN ROGERS AND HELEN PICKERING *Measurement of child mortality in association with a multipurpose birth certificate programme in the Southern Highlands Province of Papua New Guinea* page 527
- A. M. WEST, N. J. MACKINTOSH AND C. G. N. MASCIE-TAYLOR *Cognitive and educational attainment in different ethnic groups* page 539
- SYLVIA KIRCHENGAST *Relations between fertility, body shape and menopause in Austrian women* page 555
- Book reviews*
- SENGA BOND reviews *Experiences of Death: An Anthropological Account* (by J. Hockey) page 561
- G. AINSWORTH HARRISON reviews *Health and Class: The Early Years* (by C. Power *et al.*) page 561
- P. C. LEE reviews *The Egalitarians: Human and Chimpanzee. An Anthropological View of Social Organization* (by M. Power) page 563
- TOM SHAKESPEARE reviews *Constructing Deafness* (edited by S. Gregory & G. M. Hartley) page 565
- JENNY KITZINGER reviews *Taking it Lying Down: Sexuality and Teenage Motherhood* (by F. Hudson & B. Ineichen) page 566
- KATH M. MELIA reviews *Anthropology and Nursing* (by P. Holden & J. Littlewood) page 567
- ROBIN HUMPHREY reviews *Gender and Later Life: A Sociological View of Resources and Constraints* (by S. Arber & J. Ginn) page 568
- PETER DIGGORY reviews *Oral Contraception and Breast Cancer* (Report of Committee) page 569
- Abstracts of papers for the 1993 Workshop of the Biosocial Society page 571
- Author and Subject Index to Volume 24 page 573