

List of Medical Research Projects in Papua New Guinea

Approved or Noted

By the Medical Research Advisory Committee in 1997

Clinical trial for patients with transfusion-dependent thalassaemia major using the oral iron chelator L1-Deferiprone

Dr K. Nemba, Dr H. Friesen, Prof. J. Vince, Dr G. Ogle, Dr T. Chakrabarti and Dr V. Berdoukas (Division of Paediatrics, Department of Clinical Sciences, Faculty of Medicine, University of Papua New Guinea, PO Box 5623, Boroko, NCD 111)

Study of the pharmacokinetics of artemisinin, dihydroartemisinin and artesunate following oral administration in healthy volunteers

Prof. K. Rieckmann and Prof. S. Naraqi (Australian Army Malaria Institute, Gallipoli Barracks, Enoggera, Qld 4052, Australia)

Cross-sectional study on the prevalence of cardiovascular disease

Dr Gilbert Hiawalyer (Division of Policy and Planning, Department of Health, PO Box 807, Waigani, NCD 131)

Study of siblings as child carriers and the social treatment of sick people in the Trobriand Islands

Dr Gerhard Medicus (Stollenstrasse 23a, A-6065 Thaur, Austria, Europe)

The energy, nutrient and food intakes of adolescents and teenagers in Lae

Dr Betty Amoa and Mrs Wila Saweri (Department of Applied Sciences, Papua New Guinea University of Technology, Private Mail Bag, Lae, Morobe Province 411)

Molecular epidemiology of HIV-1 infection in Melanesia

Prof. J.D. Igo, Dr A.H. Fagbami, Dr R. Yanagihara, Prof. D. Morens and Dr V.R. Nerurkar (Department of Pathology, Faculty of Medicine, University of Papua New Guinea, PO Box 5623, Boroko, NCD 111)

Dengue virus infections in Papua New Guinea

Dr A.H. Fagbami, Prof. J.D. Igo, Prof. J. Vince, Dr B.O. Ogunbanjo and Dr A. Kemiki (Department of Pathology, Faculty of Medicine, University of Papua New Guinea, PO Box 5623, Boroko, NCD 111)

Enzyme typing of *Plasmodium falciparum* parasites by gel electrophoresis

Dr Francis Hombhanje and Mr Tony Kopapa (Department of Basic Medical Science, Faculty of Medicine, University of Papua New Guinea, PO Box 5623, Boroko, NCD 111)

Halofantrine and quinine/Fansidar: a comparison of the efficacy and safety of halofantrine versus quinine/Fansidar combination in chloroquine-resistant *falciparum* malaria

Dr Francis W. Hombhanje (Department of Basic Medical Science, Faculty of Medicine, University of Papua New Guinea, PO Box 5623, Boroko, NCD 111)

Prospective study of children with lymph node tuberculosis seen in Port Moresby, Papua New Guinea

Dr Paddy McMaster (Division of Paediatrics, Department of Clinical Sciences, Faculty of Medicine, University of Papua New Guinea, PO Box 5623, Boroko, NCD 111)

A trial of kangaroo care in the Special Care Nursery of Port Moresby General Hospital, Papua New Guinea

Dr Paddy McMaster (Division of Paediatrics, Department of Clinical Sciences, Faculty of Medicine, University of Papua New Guinea, PO Box 5623, Boroko, NCD 111)

Molecular and epidemiological studies of measles and subacute sclerosing panencephalitis in Papua New Guinea

Dr Y. Kokubun, Dr K. Komase, Dr C.S. Mgone, Dr P. Asuo, Dr J.M. Mgone, Dr T. Nishimura, Dr D.V. Babona, Prof. J. Vince, Dr M.P. Alpers and Prof. T. Takasu (Department of Neurology, Nihon University School of

Medicine, 30-1 Ohyaguchi-kamimachi, Itabashi-ku, Tokyo 173, Japan)

Bioaccumulation study on Misima Island

Mr Joe Mifsud and Dr Jethro Usurup (Misima Mines Pty Ltd, PO Box 38, Bwagaioa, Misima Island, Milne Bay Province 225)

Operation Anopheles 1997: an anopheline mosquito survey of the Central Province of Papua New Guinea and mosquito repellent trial

Major R.D. Cooper and Major S.P. Frances (Australian Army Malaria Institute, Gallipoli Barracks, Enoggera, Qld 4052, Australia)

Focus group study on population, development and reproductive health

Anamaria Decock (Promotive and Preventive Health Services Division, Department of Health, PO Box 807, Waigani, NCD 131)

Monitoring residual efficacy of insecticides and in vivo susceptibility of *Plasmodium falciparum* to antimalarial drugs

Dr M. Bockarie, Dr M. Rainavoson, Dr J. Hii and Dr M.P. Alpers (Papua New Guinea Institute of Medical Research, PO Box 378, Madang, Madang Province 511)

Evaluation of the Tubex test for the diagnosis of typhoid fever

Dr Megan Passey (Papua New Guinea Institute of Medical Research, PO Box 60, Goroka, EHP 441)

Severity of typhoid fever and strain of *Salmonella typhi*

Dr Megan Passey, Dr Barry Combs, Dr John Millan, Dr Peter Asuo, Dr Joyce Mgone, Dr James Mapao, Mr Gerard Saleu and Dr Michael Alpers (Papua New Guinea Institute of Medical Research, PO Box 60, Goroka, EHP 441)

Gonococcal drug sensitivities, trichomoniasis and evaluation of risk factors for chlamydial infection

Dr Megan Passey, Dr Charles Mgone and Mr Tony Lupiwa (Papua New Guinea Institute of Medical Research, PO Box 60, Goroka, EHP 441)

Spatial sampling of malaria parasites from the North Coast of Papua New Guinea for

molecular characterization of microsatellites and S-antigen

Mr Tim Anderson (Wellcome Trust Centre for Epidemiology of Infectious Disease, Department of Zoology, Oxford University, South Parks Road, Oxford OX1 3PS, England, UK)

The role of *Chlamydia trachomatis* and *Chlamydia pneumoniae* in the aetiology of pneumonia among hospitalised children aged less than 5 years in the Eastern Highlands Province, Papua New Guinea

Mr G. Saleu, Dr C.S. Mgone, Dr D. Lehmann, Dr J.M. Mgone, Ms A. Michael, Mr T. Lupiwa, Mr M. Mohe, Dr H. Mziray and Dr M. Alpers (Papua New Guinea Institute of Medical Research, PO Box 60, Goroka, EHP 441)

Protective immune responses to hookworm infection

Dr Rupert Quinnell (Department of Biology, University of Leeds, Leeds LS2 9JT, England, UK)

The occurrence of intestinal carriage and spirochaetaemia with *Serpulina pilosicoli* in debilitated patients admitted to the Goroka Base Hospital

Dr David J. Hampson, Dr Barry G. Combs, Dr John Millan, Ms Rebecca Sehuko and Mr Rex Ivivi (Department of Microbiology, School of Veterinary Studies, Murdoch University, Murdoch, WA 6150, Australia)

Fluid management of bacterial meningitis and severe pneumonia in children in developing countries

Dr Trevor Duke and Prof. Frank Shann (Goroka Base Hospital, PO Box 392, Goroka, EHP 441)

Amnioinfusion for thick meconium staining in labour: a clinical trial to determine the effect on perinatal mortality and neonatal morbidity

Dr Glen D.L. Mola (Division of Obstetrics and Gynaecology, Department of Clinical Sciences, Faculty of Medicine, University of Papua New Guinea, PO Box 5623, Boroko, NCD 111)

An investigation of attrition rates of students in pre-service schools of nursing for graduate years 1992-1996

Sr Esther Vagi, Sr Elizabeth Wagambie, Sr Birgitte Christensen, Sr Felicity DukaDuka, Sr Laitte Moses, Dr Jim MacPherson and Sr Barbara Groves (Nursing Coordinator, Papua New Guinea Nurses' Association, PO Box 6206, Boroko, NCD 111)

An investigation on employment of new graduate registered general nurses from 1992 to 1996

Sr Eileen Seneve, Sr Nola Maika and Sr Efferie Asigau (Papua New Guinea Nurses' Association, PO Box 6206, Boroko, NCD 111)

The genetic basis of Southeast Asian ovalocytosis associated with autosomal dominant distal renal tubular acidosis

Prof. O.M. Wrong, Prof. M. Tanner, Dr A.W. Sinha and Dr Paddy McMaster (Department of Nephrology, University College London, The Middlesex Hospital, Mortimer St, London W1N 8AA, England, UK)

Baseline level of *Salmonella typhi* antibody levels in the general population of Port Moresby, Papua New Guinea

Dr Jacob Wembri, Dr Robin Bailey, Prof. Isi Kevau and Prof. Sirius Naraqi (Department of Clinical Sciences, London School of Hygiene and Tropical Medicine, Keppel St, London WC1E 7HT, England, UK)

Safety, immunogenicity and pilot efficacy of a three-component blood-stage vaccine (Ro 45-2067, Ro 46-2924 and Ro 45-2164) against *Plasmodium falciparum*: a double-blind, randomized, placebo-controlled study in semi-immune Papua New Guinean children, aged 5- <10 years

Dr Michael Alpers, Dr Blaise Genton, Dr Fadwa Al-Yaman, Prof. Allan Saul, Dr Robin Anders, Prof. Graham Brown, Dr Peter Beck and Dr Tom Smith (Papua New Guinea Institute of Medical Research, PO Box 60, Goroka, EHP 441)

The impact of family planning utilization, female education and employment upon fertility in Tari, Southern Highlands Province

Dr Deborah Lehmann, Mr John Vail, Mr Peter Vail and Ms Holly Wardlow (Papua New Guinea Institute of Medical Research, PO Box 60, Goroka, EHP 441)

Development of spatial statistical methods in tropical health

Dr Penelope Vounatsou, Dr Thomas Smith, Prof. Ursula Ackermann, Dr Michael Alpers, Dr Bryant Allen, Prof. Alan Gelfand and Prof. Adrian Smith (Swiss Tropical Institute, Socinstrasse 57, Postfach, CH-4002 Basel, Switzerland)

Application and validation of new approaches in spatial analysis as tools in communicable disease control, health systems and environmental epidemiology

Mr Ivo Müller, Prof. Marcel Tanner, Dr Thomas Smith, Prof. Mitchell Weiss, Dr Penelope Vounatsou, Dr Michael Alpers, Dr Blaise Genton, Mr Honorathi Masanja, Dr Andrew Kitua, Dr Bryant Allen, Dr Jeffrey Hii, Dr Mark Woolhouse and Dr Mark Booth (Department of Public Health and Epidemiology, Swiss Tropical Institute, Socinstrasse 57, Postfach, CH-4002 Basel, Switzerland)

Breast-feeding structure and parental investment in Papua New Guinea

Dr David P. Tracer (Department of Anthropology, University of Washington, Box 353100, Seattle, WA 98195-3100, USA)

Red blood cell polymorphisms and immunity to malaria

Prof. Peter Kremsner, Dr Adrian J.F. Luty, Dr Jürgen Kun, Dr Binh Vu Quoc, Dr Karen P. Day, Dr Karen P. Piper and Dr Michael P. Alpers (Universität Tübingen, Institut für Tropenmedizin, Wilhelmstrasse 27, Tübingen D-72074, Germany)

Risk factors for vivax malaria in Papua New Guinea

Dr James W. Kazura, Dr Moses Bockarie and Dr Ian Wooley (Division of Geographic Medicine, School of Medicine, Case Western Reserve University, 10900 Euclid Avenue, Cleveland, Ohio 44106-4983, USA)

Health survey at Ok Tedi Mining Limited 1997

Dr Licenia Ihuarauqui (Public Health Unit, Ok Tedi Mining Limited, Tabubil, Western Province 332)

Survey to assess the vitamin A status and the nutritional status of children between 6 months and 6 years of age in selected areas in Papua New Guinea

Dr Hanny Friesen, Dr Nitin Verma, Prof. J. Vince and Dr J. Earl (Division of Paediatrics, Department of Clinical Sciences, Faculty of Medicine, University of Papua New Guinea, PO Box 5623, Boroko, NCD 111)

Antimicrobial susceptibilities and serotypes of nasal isolates of pneumococci and *Haemophilus influenzae* from children from Port Moresby

Prof. J.D. Vince, Prof. J.D. Igo, Dr R.T. Danaya, Dr D. Lehmann, Ms A. Michael and Mr T. Lupiwa (Division of Paediatrics, Department of Clinical Sciences, Faculty of Medicine, University of Papua New Guinea, PO Box 5623, Boroko, NCD 111)

Studies of acute malaria in Melanesians

Prof. Sirus Naraq and colleagues (Division of Medicine, Department of Clinical Sciences, Faculty of Medicine, University of Papua New Guinea, PO Box 5623, Boroko, NCD 111)

Baseline health and socioeconomic survey of 9 Alice River Trust villages

Dr Tukutau Taufa (Department of Community Medicine, Faculty of Medicine, University of Papua New Guinea, PO Box 5623, Boroko, NCD 111)

A survey of pregnant women attending the antenatal clinic of PMGH to determine the prevalence of lower genital tract infection with *Mycoplasma hominis*, *Ureaplasma urealyticum*, *Neisseria gonorrhoeae* and *Chlamydia trachomatis* as well as other vaginitides to study the socioeconomic and clinical risk factors associated with these infections and the perinatal and pregnancy outcome

Dr G.L. Mola, Dr A.B. Amoa, Dr M. Sapuri, Dr J. Roy and Prof. J. Igo (Division of Obstetrics and Gynaecology, Department of Clinical Sciences, Faculty of Medicine, University of Papua New Guinea, PO Box 5623, Boroko, NCD 111)

Assessment of therapeutic efficacy of antimalarial drugs for uncomplicated *Plasmodium falciparum* malaria

Dr K.D.P. Jayatilaka and colleagues (Malaria Surveillance and Control Unit, PO Box 778, Goroka, EHP 441)

Epidemiological interactions between heterologous human malaria parasites

Dr Thomas Smith (Swiss Tropical Institute, Socinstrasse 57, Postfach, CH-4002 Basel, Switzerland)

Role of *Chlamydia pneumoniae* in the aetiology of coronary heart disease in Papua New Guinea

Dr Charles S. Mgone, Prof. Isi H. Kevau, Prof. Pekka Saikku, Dr D.P. Murthy and Mr Michael P. Mohe (Papua New Guinea Institute of Medical Research, PO Box 60, Goroka, EHP 441)

Prevalence of ischaemic heart disease (IHD) in Port Moresby: a prospective case-control study on acute myocardial infarction (AMI) in Port Moresby General Hospital

Mr Rodney Itaki, Prof. I.H. Kevau, Dr D. Sullivan, Dr A. SenGupta and Dr C. Mgone (Department of Clinical Sciences, Faculty of Medicine, University of Papua New Guinea, PO Box 5623, Boroko, NCD 111)

A study of patients admitted to the maternity unit of the Port Moresby General Hospital with anaemia to determine the aetiology of the anaemia

Dr A.B. Amoa, Dr Evelyn Lavu, Dr Mathias Sapuri and Dr Udayan Ray (Division of Obstetrics and Gynaecology, Department of Clinical Sciences, Faculty of Medicine, University of Papua New Guinea, PO Box 5623, Boroko, NCD 111)

Establishment of national PNG reference (normal) ranges for clinical chemistry tests

Dr Ivan Ivanovic and Mr Michael Ballinger (Department of Medical Laboratory Science, Faculty of Health Sciences, University of Papua New Guinea, PO Box 1034, Boroko, NCD 111)

Cardiovascular risk profiles in Southern Highlanders living in traditional or urban diet and lifestyle

Dr Mere Kende, Dr Udayan Ray and Dr James Doery (Department of Pathology, Faculty of Medicine, University of Papua New Guinea, PO Box 5623, Boroko, NCD 111)

A comparison between an orally administered prostaglandin E1 analogue (misoprostol) and Syntometrine in the management of the third stage of labour

Assoc. Prof. G. Mola, Dr S. Heywood, Dr

A.B. Amoa and Dr M. Sapuri (Division of Obstetrics and Gynaecology, Department of Clinical Sciences, Faculty of Medicine, University of Papua New Guinea, PO Box 5623, Boroko, NCD 111)

An investigation into the reported high incidence of haemolysins in blood donors in Papua New Guinea

Dr V.A. Clarke (Department of Medical Laboratory Science, Faculty of Health Sciences, University of Papua New Guinea, PO Box 1034, Boroko, NCD 111)

Socio-demographic characteristics and satisfaction of Depo-Provera users

Ms R. Kaul (Department of Community Medicine, Faculty of Medicine, University of Papua New Guinea, PO Box 5623, Boroko, NCD 111)

The epidemiology of tuberculosis and the nutritional status of children in selected primary and secondary schools in Gazelle

Peninsula, East New Britain Province of Papua New Guinea

Ms Michaela Schulte, Ms Andrea Aichler and Dr Guapo Kiagi (Tropical Medicine Department, Medical Mission Institute Würzburg, Academic Teaching Hospital, University of Würzburg, Würzburg, Germany)

Note:

These projects have been examined and cleared by the MRAC but they have not all started, nor is there any guarantee that they all will, since in many cases this still depends on funding. It should be noted that some discretionary funds were allocated to the MRAC within the Health Budget for project support in 1995 and 1996, but not in 1997.

Information about these projects may be obtained from the investigators or from the Chairperson of the Medical Research Advisory Committee (Division of Policy and Planning, Department of Health, PO Box 807, Waigani, NCD 131).