

**Faculty of Dentistry
The University of Hong Kong
Hong Kong S.A.R.**

**Research Report
January 1996 - June 1997**

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PREFACE

The past year and a half has been one of considerable change both within The University of Hong Kong and within the Faculty of Dentistry. External pressures have led to major re-evaluations of our objectives and purposes within the region, and of how we may achieve even higher quality teaching, research, patient care and service.

Increasingly, there is greater competition for funding, and for the best students and staff. These resources are largely dependent on the reputation and prestige of the institution, and require good communications to foster. One of the purposes of this Research Report is to inform others of the research accomplishments of our staff and students, and how their work has contributed to the improved oral health of the region.

Many of the research publications in this Report demonstrate regional and international collaboration, and many of our postgraduate students have been attracted from other countries to undertake their studies in Hong Kong. Several new research posts have been allocated to the Faculty, and staff have achieved increased funding to support their work. I am sure that the recent restructuring of the Faculty will offer opportunities to enhance even further our regional and international reputation.

I would like to thank Ms. Clara M.Y. Choy, Senior Secretary Conservative Dentistry, for all her work in assisting with the production of this Report.

Professor R.J. Smales

MDS, DDS, FDSRCS, FADM, FCDSHK, FHKAM (Dental Surgery)

Associate Dean (Research)

INTRODUCTION

The restructuring of the Faculty of Dentistry, as a unitary Faculty, allows for a new strategy for research development and the best use of our resources. New objectives have been proposed, which will ultimately redefine future research directions.

The successful Faculty Annual Scientific Meetings and the Faculty Dental Research Seminars will continue, and further efforts are also being made to encourage and support increased participation by academic staff, students and dental practitioners in research work. There were 35 oral and poster presentations at the 1997 Annual Scientific Meeting, and some 18 Dental Research Seminars were presented during 1996-97. A very successful International Symposium on the Formation and Repair of Mineralized Extra-Cellular Matrix was organized in October 1996.

The 1996 Research Assessment Exercise undertaken by the University Grants Council achieved a rating of 63% for the Faculty, which was the average for HKU. During the past year, academic staff have continued to attract substantial competitive research and teaching-related research funding from within HKU and from external sources. Many collaborative projects are being undertaken regionally and internationally. Following a new HKU research initiative, two Research Fellowship posts and one Post-doctoral Fellowship post were allocated to the Faculty to enhance research performance. A CAUT (Centre for the Advancement of University Teaching) Associate was also awarded to undertake a project related to undergraduate student learning. More recently, substantial funding has been received for Problem Based Learning projects, and a Biostatistics Laboratory was set up to provide training in and advice on biostatistics for Faculty staff and postgraduate students.

Postgraduate students participate in Faculty core course programmes, and in programmes organized by the School of Research Studies, and by the School of Postgraduate Medical Education and Training (SPMET) to support their research training. This past year, five students from the Faculty of Dentistry were awarded the degree of PhD from HKU.

RESEARCH INTERESTS AND COLLABORATIVE PROJECTS



Biomaterials

Dr. B.W. Darvell, Dr. V.W.H. Leung

Research interests and current projects:

Design of artificial saliva; chemical equilibria in multiple systems of electrolytes; errors of angles and distances in coordinate data; droplet shape; mechanical testing machine for use in the field; turbine handpiece instrumentation.

Collaborative research projects:

Collaborative projects with the Turner Dental School, Manchester; Department of Statistics, and Department of Anatomy, HKU.

Conservative Dentistry

Professor I.E. Barnes, Professor R.J. Smales, Associate Professor G.S.P. Cheung, Associate Professor C.J. Holmgren, Dr. L.H. Kei, Dr. M.G. Botelho, Assistant Professor H.K. Yip, Dr. A.W.K. Chan, Ms. M.A. Crosswaite

Research interests and current projects:

Clinical and laboratory studies of dental materials; minimal intervention dentistry including the ART technique; cost-effective restorative treatments; biomechanical root canal preparation; pulp mummifying; implant prostheses; addition of antibacterials to glass ionomer cements; cantilevered resin-bonded bridges; bonding to dentine; learning in dental education.

Collaborative research projects:

Collaborative projects with the WHO; School of Stomatology, Beijing Medical University; College of Stomatology, West China University of Medical Sciences, Chengdu; WHO Collaborative Centre in Primary Health Care, Conghua; Department of Epidemiology, and Department of Oral Medicine, Sun Yat-sen University of Medical Sciences, Guangzhou; Faculty of Dentistry, The University of Adelaide; ESPE GmbH, Seefeld, Germany; GC Int. Corp., Tokyo; Japan; and private practitioners. A CAUT Associate was awarded to Assistant Professor H.K. Yip to assess reflective student learning in operative dentistry, in a pilot study. Collaborative projects in curricular development with the Faculty of Dentistry, University Kebangsaan, Malaysia.

Dental Public Health

Professor E. Schwarz, Associate Professor E.C.M. Lo, Dr. H.B. Birn, Dr. D.S.H. Fung

Research interests and current projects:

Oral epidemiology; dental health care services; preventive dentistry; atraumatic restorative treatment (ART) technique.

Collaborative research projects:

Collaborative projects with College of Stomatology, West China University of Medical Science, Chengdu; WHO Collaborative Centre in Primary Health Care, Conghua; Department of Scientific Research Administration, Sun Yat-sen University of Medical Sciences, Guangzhou.

Oral Bio-Sciences

Professor L.P. Samaranayake

Research interests and current projects:

Clinical oral microbiology; infection control in dentistry; periodontal microbiology; HIV and other emerging infections.

Collaborative research projects:

Collaborative projects with Department of Biochemistry, Chinese University of Hong Kong; Department of Oral Biology, University of Alberta, Canada; Department of Oral Epidemiology and Toxicology, University of Aarhus, Denmark; Department of Oral Medicine, Eastman Dental Institute, London; Department of Oral and Maxillofacial Surgery, Free University of Berlin, Germany; Department of Periodontics, University of Kerala, India; Department of Prosthodontics, University of Hiroshima, Japan; Department of Oral Medicine and Oral Surgery, University of Otago, New Zealand; Department of Microbiology and Immunology, Muhimbili University College of Health Sciences, Dar-es-Salaam, Tanzania.

Oral Diagnosis

Dr. P.R.H. Newsome, Assistant Professor T.K.L. Li, Mr. D. Mills

Research interests and current projects:

Antecedents and consequences of patient satisfaction; sports dentistry; mouthguards; processing factors affecting the diagnostic quality of radiographs; alternative radiographic techniques; preferences for intra-oral film holders; digital radiography.

Collaborative research projects:

Collaborative projects with Management Centre, University of Bradford; Department of Epidemiology, University of Dundee.

Oral and Maxillofacial Surgery

Professor H. Tideman, Associate Professor L.K. Cheung, Associate Professor M.B. Comfort, Associate Professor N. Samman, Associate Professor M.R.C. Rodrigo, Dr. R.C.H. Campbell, Dr. J.P. Curtin, Dr. I.W. Ormiston, Assistant Professor R.W.K. Yeung

Research interests and current projects:

Functional reconstruction of the upper and lower jaws; oral squamous cell carcinoma; microvascular flaps; use of scintigraphy in mandibular asymmetry; hearing and eustachian tube function following maxillary osteotomy in cleft palate patient; effects of dentofacial deformity and orthognathic surgery on speech; 3-D craniofacial and implant site surgical planning; narrow platform osseointegrated implants; temporalis flap reconstructions; distraction osteogenesis of the mandible; clinical use of bone grafts; surgical morbidity of autogenous graft donor sites; management of cleft lip and palate deformity; patient controlled sedation; hypotensive anaesthesia; post-operative relief of pain and vomiting.

Collaborative research projects:

Collaborative projects with Department of Anatomy, and Department of Psychiatry, Faculty of Medicine, HKU; Departments of Oral and Maxillofacial Surgery, Nanjing Medical University, and Shanghai Second Medical University; Institute of Image Processing and Pattern Recognition, Shanghai Jiaotong University.

Oral Rehabilitation

Dr. T.W. Chow, Dr. J.E. Dyson, Assistant Professor A.P.L.H. Dias, Dr. R.W.C. Chung, Dr. C.M. Leung, Dr. E.H.N. Pow

Research interests and current projects:

Autoclaving of dental air turbine handpieces; dental services to disadvantaged elderly; magnets in dentistry; fibre-reinforced dental polymers; narrow platform osseointegrated implants; PMMA resin as a denture base material; adhesives for hydrocolloid impression materials.

Collaborative research projects:

Collaborative projects with Department of Mechanical Engineering HKU; Turner Dental School, Manchester; Hiranuma multicentre project with researchers in S.E. Asia; Department of Physics, University of Leeds; Interdisciplinary Research Centre of Polymer Science and Technology, Leeds; Nobel Biocare, Gothenburg.

Orthodontics

Professor E.U.O. Hägg, Professor M.S. Cooke, Associate Professor A.B.M. Rabie, Dr.

P.W.P. Chan, Dr. L.L.Y. So

Research interests and current projects:

Growth and development; epidemiology; electromyography; clinical trials; bone stimulation and remodeling; orthopaedic protraction for Angle Class III malocclusion; natural head posture; craniofacial form in Southern Chinese; cephalometric interpretation; dental appliances in sleep apnoea; sports mouth guards for orthodontic patients; intramembranous and endochondral bone grafts for large non-generative defects.

Collaborative research projects:

Collaborative projects with School of Stomatology, Beijing Medical University; School of Stomatology, Shanghai Second Medical School; University of Giessen, Germany; Faculty of Odontology, Malmö; Eastman Dental Centre, Stockholm; Department of Orthodontics, University of West Virginia, USA; King Edward Medical College, Lahore, Pakistan; Department of Paediatrics, HKU; Department of Oral Biology, and Department of Orthodontics, Northwestern University Dental School, Chicago; Klinikum der Friedrich-Schiller-Universität, Poliklinik für Kieferorthopädie, Germany; Department of Medicine, and Department of Diagnostic Radiology, HKU; Department of Biochemistry, and Oral Pathology Unit, HKU.

Paediatric Dentistry

Professor S.H.Y. Wei, Professor N.M. King, Assistant Professor D. O'Donnell, Dr. E.L.K. Tang, Dr. C.K.Y. Yiu

Research interests and current projects:

Dietary sources of fluoride in children; prevalence of caries in children; dentine-bonding interfaces; aspects of dental care for the special needs patient; compomers; developmental tooth anomalies, fluorosis and enamel defects; cleft lip and palate; cephalometric and electromyographic investigations of Class III malocclusion correction using orthopaedic protraction headgear.

Collaborative research projects:

Collaborative projects with WHO and the National Committee for Oral Health, Beijing; Hubei Medical University, Wuhan; School of Stomatology, Beijing Medical University; King Edward Medical College, Lahore, Pakistan.

Periodontology

Professor W.I.R. Davies, Associate Professor E.F. Corbet, Assistant Professor L.J. Jin, Assistant Professor W.K. Leung, Assistant Professor K.Y. Zee, Dr. G.K.C. Chiu, Ms P. Dando

Research interests and current projects:

Subgingival plaque microbiology; antibiotics in the treatment of periodontal disease; intraosseous implants; subtraction radiography; molecular detection of periodontopathogens; early-onset periodontitis; microbial-host responses and markers in periodontal disease.

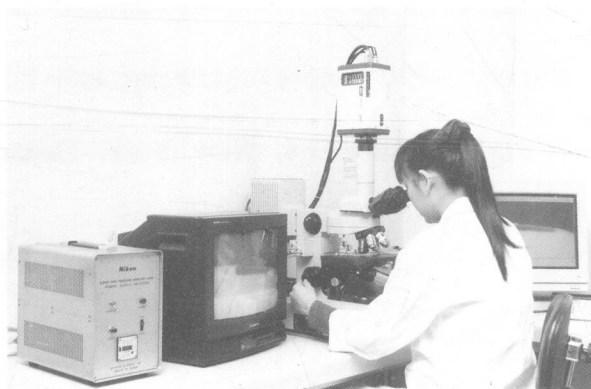
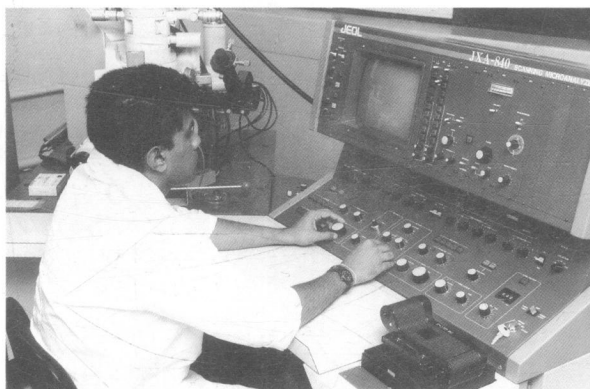
Collaborative research projects:

Collaborative projects with Department of Periodontology, University of Lund, Malmö Department of Periodontology and Fixed Prosthodontics, University of Bern; Department of

Electrical and Electronic Engineering, HKU; School of Stomatology, Beijing Medical University; School of Stomatology, Shanghai Second Medical University; Strauman Institute, Waldenberg, Switzerland; Karolinska Institute, Stockholm; ANAWA Laboratories AG, Zurich; Department of Medicine and Physiology, College of Physicians and Surgeons, Columbia University, New York; Department of Oral Biology, University of British Columbia, Vancouver.

POSTGRADUATE STUDENT PROJECTS

At the University of Hong Kong:



<u>Name</u>	<u>Award</u>	<u>Project</u>	<u>Supervisors</u>
Du X.	PhD	The dental, skeletal and muscular effects in Class II division 1 malocclusion treated with the Herbst appliance	E.U.O. Hägg
Ellepola A.N.B.	PhD	Post antifungal effect and pathogenic features of Candida	L.P. Samanayake
Gu Y.	PhD	Soft tissue changes accruing from early treatment of pseudo Class III in Chinese children	A.B.M. Rabie
Itthagarun A.	PhD	Roles of dentifrices in caries prevention	S.H.Y. Wei
Lee D.H.	PhD	Periodontal microbiology of periodontal disease	K.Y. Zee L.P. Samanayake
Lin M.H.C.	PhD	Oral health status and treatment needs of adults in Guangdong province, China	E. Schwarz E.C.M. Lo
McMillan L.C.	PhD	Aspects of the rheology of dental waxes	B.W. Darvell
Panagoda G.J.	PhD	Pathogenic features of Candida parapsilosis - an emerging fungal pathogen	L.P. Samanayake

Peng L.	PhD	Effects of the headgear activator appliance on Chinese children with increased upper incisor protrusion	M.S. Cooke
Samman N.	PhD	Aspects of pathogenesis and management of unilateral condylar hyperplasia of the mandible	H. Tideman
Shen G.	PhD	Biochemistry and physiology of bone healing	E.U.O. Hägg A.B.M. Rabie
Tay F.R.	PhD	An interactive micromorphological study of resin infiltration into acid conditioned dentine	S.H.Y. Wei
Tong A.C.K.	PhD	Menisectomy and autogenous graft reconstruction of the rhesus monkey temporomandibular joint articular disc	H. Tideman P.C. Wu
Tong L.S.M.	PhD	The clinical and microscopic effects of vital bleaching and enamel micro-abrasion on surface enamel	S.H.Y. Wei
Tsang C.S.	PhD	Oral biology of human immunodeficiency virus-infected individuals in Hong Kong	L.P. Samanayake
Twitty A.	PhD	The identification of an angiogenic inhibitor in autogenous bone grafts	A.B.M. Rabie D.K.Y. Shum
Xia J.	PhD	3D surgical treatment planning for craniofacial deformities	H. Tideman
Chan K.C.	M.Phil.	Calcium sulphate hemihydrate - effect of humidity in storage	B.W. Darvell
Cheung K.C.	M.Phil.	Porcelain porosity	B.W. Darvell
Dias A.P.L.H.	M.Phil.	Aspects of the use and design of magnets in dentistry	B.W. Darvell

Fung D.S.H.	M.Phil.	Dental fear and anxiety among primary school children in Hong Kong	E. Schwarz
Ho C.F.J.	M.Phil.	Poly (methylmethacrylate) dentures reinforced with highly drawn polyethylene fibres: dimensional changes during processing and in service	T.W. Chow
Leung C.F.	M.Phil.	Aetiological, behavioural and cultural features of halitosis in a Hong Kong population	L.P. Samanayake
Chay S.H.	M.Orth.	Pattern of angiogenesis during the healing of bone formation using autogenous bone grafts	A.B.M. Rabie
Chow K.M.C.	M.Orth.	Angiogenic pattern during bone induction using EC-DBM	A.B.M. Rabie
Kim S.	M.Orth.	The effects of the oral appliance in the treatment of mild and moderate obstructive sleep apnoea in Chinese adult patients	M.S. Cooke M.S.M. Yip
Ta T.A.	M.Orth.	Frequency of Bolton tooth size discrepancies amongst Southern Chinese	E.U.O. Hägg J.Y.K. Ling
Tran D.C.	M.Orth.	Mouthguards in sports. Prevention of trauma, awareness and attitudes in Hong Kong	M.S. Cooke P.R.H. Newsome
Wong A.M.K.	M.Orth.	Ultrastructural identification of cells involved in bone healing	A.B.M. Rabie
Wong W.K.R.	M.Orth.	A quantitative analysis of the amount of bone formation using autogenous bone grafts	A.B.M. Rabie
Leung K.W.D.	Adv.Dip. Orth.	Treatment effect in adolescents treated with progressive jumping of the mandible	E.U.O. Hägg
You Q.L.	Adv.Dip. Orth.	A comparison of three superimposition methods	E.U.O. Hägg

Cheung L.M.	MDS	Dental abnormalities in Chinese cleft lip and palate children	N.M. King
Fang T.S.D.	MDS	In vitro and in vivo aspects of glass ionomer cements used for the ART technique	R.J. Smales
Fung S.C.	MDS	The osteology of the posterior maxilla and its implication to vascular complications of maxillary osteotomies	L.K. Cheung
Hamed M.	MDS	Cephalometric airway measurements in anterior open bite deformity	N. Samman
Hui H.M.	MDS	Donor site morbidity of autogenous iliac bone graft harvesting	N. Samman
Kan K.W.C.	MDS	Effect of periodontal care on the lower second molar after impacted third molar surgery	E.F. Corbet W.K. Leung
Leung S.K.	MDS	Clinical evaluations of three compomers (Dyract, Compoglass F and Hytac Aplitip) in restoration of primary	S.H.Y. Wei
Narayanan S.	MDS	Transverse relapse and dental injuries of segmentalised Le Fort I osteotomies	L.K. Cheung
Ngai K.S.	MDS	The occurrence of Actinobacillus atinomycetemcomitans and its serotypes in relation to periodontal health and disease in Chinese young adults	W.K. Leung
Pong S.M.A.	MDS	Aspects of dental air turbine handpiece lubricants and sterilization	J.E. Dyson
Poon K.M.B.	MDS	In vitro assessment of tooth preparation designs for metal and ceromometal crowns	R.J. Smales

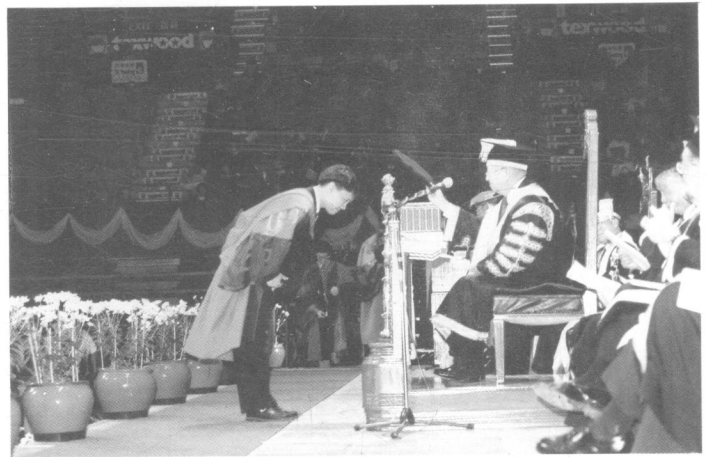
Shaboodien S.I.	MDS	A comparative study of dental knowledge of parents and carers of handicapped children	D. O'Donnell
Shum H.C.M.	MDS	Denture quality and denture wearing habits of institutionalized and community - dwelling elderly Chinese in Hong Kong	J.E. Dyson
Tong S.K.K.	MDS	Clinical effect of mechanical periodontal treatment and the ability to eliminate oral bacteria in Chinese adults	K.Y. Zee
Wong D.M.S.	MDS	Dimensional changes and water sorption of dry and wet heat-cured acrylic resin dentures	T.W. Chow

At Other Institutions:

<u>Name</u>	<u>Award</u>	<u>Project</u>	<u>Supervisors</u>
Bendeus M.	Odont.Lic.	Dental and skeletal changes in Class II malocclusion treated with the headgear activator	E.U.O. Hägg
Kelly P.G.	MDS	Cost-effectiveness of selected dental restorative treatments	R.J. Smales
Ngan P.	Odont.Dr.	Maxillary expansion and protraction - a prospective cephalometric, clinical, biometric and electromyographic investigation	E.U.O. Hägg

GRADUATE AWARDS

From the University of Hong Kong:



<u>Name</u>	<u>Award</u>	<u>Thesis or Dissertation</u>	<u>Supervisors</u>
Cheung L.K.	PhD	The temporalis myofascial flap in maxillofacial reconstructions: vascular anatomy and healing	H. Tideman
Gale M.G.	PhD	Dental filled resin restorations: seal integrity of the dentine bond	B.W. Darvell
Kaluarachchi K.	PhD	A mouse model for the study of genetic factors affecting bone fracture repair	Fac.Med.HKU L.P. Samanayake
Luk H.W.K.	PhD	High temperature strength of dental phosphate-bonded investments	B.W. Darvell
Nair G.R.	PhD	In vitro interactions of Candida species and oral bacteria	L.P. Samanayake
Sedgley C.M.	PhD	Enterobacteriaceae in the human oral cavity	L.P. Samanayake
Wang S.C.G.	Adv.Dip. Orth.	The orthodontic need and demand of Chinese children and their malocclusion pattern	E.U.O. Hägg
Zhou Y.H.	Adv.Dip. Orth.	Psychological aspects of skeletal Class III malocclusion treated by combined orthodontic and orthognathic surgery	E.U.O. Hägg L.L.Y. So
Au Yeung K.H.N.	MDS	Sagittal condylar guidance in Southern Chinese	T.W. Chow

Ho F.T.T.	MDS	In vitro and in vivo evaluation of an improved glass-ionomer dental cement used for the atraumatic restorative treatment (ART) technique	R.J. Smales
Hse M.Y.K.	MDS	Clinical evaluation of a compomer in primary teeth	S.H.Y. Wei
Lam T.C.W.	MDS	In vitro evaluation of fluoride release and artificial caries formation with selected glass polyalkenoate cements	R.J. Smales
Lee D.H.	MDS	The clinical and microbiological effects of metronidazole gel in treated adult periodontitis subjects	K.Y. Zee
Leung C.M.K.	MDS	Tensile shear and cleavage bond strengths of alginate adhesives	T.W. Chow
Leung K.W.D.	MDS	Electromyographic investigation in adolescents treated with progressive bite jumping of the mandible	E.U.O. Hägg
Lim A.T.A.	MDS	Temporomandibular joint symptoms in dentofacial deformities and changes following orthognathic surgery	L.K. Cheung
Lui W.K.W.	MDS	A cephalometric study of stability after maxillary impaction	H. Tideman
Mok H.Y.	MDS	Permanent dentition space analysis. A comparison between sonic digitisation and manual methods	M.S. Cooke
Poon H.W.	MDS	Hep. B carrier state and its implications in the dental treatment of handicapped patients	D. O'Donnell
Tsai J.S.J.	MDS	Anomalies of the permanent dentition	N.M. King

Tsang H.S.	MDS	Comparison of cephalometric analysis between sonic digitisation and conventional digitisation	M.S. Cooke
Yeung A.L.P.	MDS	Oral and prosthetic findings of cobalt-chromium removable partial denture wearers - a five-year study	T.W. Chow
Yu C.	MDS	Elastase activity in static and flow gingival crevicular fluid from subjects with periodontal diseases	L.J. Jin

From Other Institutions:

<u>Name</u>	<u>Award</u>	<u>Thesis or Dissertation</u>	<u>Supervisors</u>
Koutsikas P.	BScDent (hons)	Clinical evaluation of two light-cured restorative glass ionomer cements	R.J. Smales J. Kaidonis
Etemadi S.	MDS	In vivo and in vitro evaluation of resin-bonded porcelain restorations	R.J. Smales
Gee G.D.	MDS	An assessment of patients treated with implant retained mandibular overdentures	R.J. Smales P.B. Hawker
Ombus J.	Odont.Dr	Dental and orthopedic effects of Bass and Herbst therapy for correction of severe Class II division 1 malocclusion	O. Malmgren E.U.O. Hägg

RESEARCH FUNDING 1997/1998

Hong Kong Research Grants Council

G.L. Tipoe, P.W. Lucus, L.K. Cheung	In vitro compound mucosal grafts: experimental studies and clinical application	\$692,000
L.P. Samaranayake	Phenotypic and genotypic characterisation of oral <i>Candida albicans</i> isolates in human immunodeficiency virus disease and in health	\$526,760
L.J. Jin, W.K. Leung, E.F. Corbet, L.P. Samaranayake, W.I.R. Davie P-O Söder	Microbial and host response factors for diagnosis of periodontal diseases and monitoring of treatment response	\$582,120



Block Grant

L.J. Jin	Molecular markers in diagnosis of periodontal diseases and monitoring of treatment response	Sept. 1996 \$240,600
S.H.Y. Wei	Optimising the performance of dentine adhesive systems	Oct. 1996 \$235,900

Hong Kong University Committee on Research and Conference Grants 1997-1998

<u>Name</u>	<u>Project Title</u>	<u>Amount Awarded</u> <u>(HK\$)</u>	<u>Status</u>
M.G. Botelho	The combined antimicrobial efficacy of surfactant agents and glass ionomer cements on cariogenic organisms	45,000	Current
G.S.P. Cheung	Determination of success rate of pulp resinifying therapy carried out in the People's Republic of China	50,000	New
L.K. Cheung	Morphometric and functional changes of taste buds following radiation and lingual nerve injuries	60,000	New
T.W. Chow	Reinforcement of denture base polymers with high modulus fibres	100,000	Current
A.P.L.H. Dias	Microbiological assessment of denture hygiene and denture plaque development in a cohort of Hong Kong denture wearers	54,050	New
J.E. Dyson	Effects of autoclaving on the performance of dental air turbine handpieces	136,000	Current
C.J. Holmgren	Evaluation of exfoliated primary teeth restored with a new glass ionomer filling material	58,000	New

L.J. Jin	Dynamic activity of granulocyte elastase and proteinase inhibitors in saliva as a subject-based diagnostic test for assessment and monitoring of periodontal status and treatment efficacy	120,000	New
W.K. Leung	Study on the cytotoxicity of human subgingival plaque biomass on a junctional epithelial cell model	180,000	New
E.C.M. Lo	Oral health status and utilization of dental services among University students	39,905	Current
P.R.H. Newsome	Impact of marketing strategy on the success of dental practices	40,000	New
L.P. Samaranayake	The impact of the post antifungal effect (PAFE) on the pathogenic attributes of <i>Candida albicans</i>	140,000	New
R.J. Smales	The interface between glass ionomer fillings and carious dentine	32,000	New
H. Tideman	Visualized responsive workbench for three-dimensional craniofacial surgical planning system	96,300	New
R.W.K. Yeung	To investigate the soft tissue and hard tissue ratio of 10 Chinese patients with maxillary hyperplasia, nasomaxillary hypoplasia by using 3-D CT imaging and post-operative soft tissue and hard tissue ratio 1 year after the operation	96,300	New

H.K. Yip	The bonding interface between resin-modified glass ionomer and sclerotic root dentine	60,000	New
K.Y. Zee	Antibiotic sensitivity of putative pathogens in Chinese periodontal patients	140,000	New

Other Institutions:

Hong Kong Sports Development Board

P.R.H. Newsome	Mouthguard use and design in the prevention of dental injuries amongst Hong Kong's Rugby playing community	\$24,785
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Karolinska Institute, Stockholm, Sweden

L.J. Jin, P-O Söder		\$50,000
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Commercial Organisations

ESPE Dental-Medizin GmbH, Germany

E.C.M. Lo, C.J. Holmgren		\$312,000
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R.J. Smales		\$50,000
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G.C. International Corp.

R.J. Smales		\$35,000
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Dong Kook Pharm. Co. Seoul, Korea

L.J. Jin, W.K. Leung, E.F. Corbet		\$46,500
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Publications and Other Research Outputs

Faculty of Dentistry

Scholarly books and monographs

Samaranayake, L.P. *Essential Microbiology for Dentistry*, Edinburgh, Churchill Livingstone, 1996, 368pp. (Publication No. 013942)

Wu, Q.L. and Tideman H. *A Practical Textbook of Cranio-maxillofacial Surgery*, Hangzhou, Zhejiang Scientific Publication Co., 1996, 313pp.

Journal articles, book chapters and other published papers

Anil, S., Samaranayake, L.P., Nair, R.G. and Beena, V.T. Gingival enlargement as a diagnostic indicator in leukaemia. *Australian Dental Journal*, 1996, 41: 235-237. (Publication No. 023387)

Barnes, I.E. and Newsome, P.R.H. The adhesive revolution of restorative dentistry. *Hong Kong Medical Journal*, 1996, 2(2): 181-185. (Publication No. 025144)

Cao, B.Y., Tsang, P.W.K., Tsang, D.N.C., Samaranayake, L.P. and Wang, J. A disc plate assay for characterization of the effect of interaction between polyenes and azoles on growth of *Candida albicans* CA12. *Microbios*, 1996, 87: 161-167. (Publication No. 021796)

Cao, B.Y., Tsang, P.W.K., Wu, T., Samaranayake, L.P. and Wang, J. Adenine auxotrophic heterozygosity in *Candida krusei*. *Journal of Medical and Veterinary Mycology*, 1997, 35: 33-36. (Publication No. 022180)

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Editorships and editorial boards

Cheung, L.K. *Associate Editor-in-chief, Chinese Journal of Oral Implantology.*

Cheung, L.K. *Abstract Editor on Chinese oral and maxillofacial surgery literature, British Journal of Oral and Maxillofacial Surgery.*

Cheung, L.K. *Editor, Stomatology Progress.*

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- Cooke, M.S. *Member of Editorial Board, Asian Journal of Aesthetic Dentistry*, 1997. (Publication No. 025306)
- King, N.M. *Member, Editorial Board, International Journal of Paediatric Dentistry, Januray 1997 - present.*
- Rodrigo, M.R.C. *Editor: Sri Lankan Journal of Anaesthesiologists, Sri Lanka*, 1996. (Publication No. 022284)
- Samman, N. *Editor, International Journal of Oral and Maxillofacial Surgery.*
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- Tideman, H. *Abstract Editor on Cancer - International Journal of Oral and Maxillofacial Surgery.*
- Tideman, H. *Member Editorial Advisory Board - British Journal of Oral and Maxillofacial Surgery.*
- Wei, S.H.Y. *Member, Editorial Board, The Journal of Clinical Dentistry, 1990-present, 1997.* (Publication No. 024121)
- Wei, S.H.Y. *Member, Editorial Board, Asia Journal of Aesthetic Dentistry, 1992-present, 1997.* (Publication No. 024122)
- Wei, S.H.Y. *Member, Editorial Board, Hong Kong Medical Journal, 1994-present, 1997.* (Publication No. 024124)
- Wei, S.H.Y. *Associate Editor, Oral Care Report, 1997-present, 1997.* (Publication No. 024130)
- Wei, S.H.Y. *Member, Editorial Board, Shanghai Journal of Stomatology, 1995-present, 1997.* (Publication No. 024127)
- Wei, S.H.Y. *Member, Editorial Advisory Board of Dental Review, 1993-present, 1997.* (Publication No. 024123)
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Other outputs related to research activities

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Choi, C.S., Lai, L.K.Y., Li, K.S., Liang, H.C., Mak, M.W., Ng, K.Y., Tsang, C.S.C., Wong, A.W.Y. and Lo, E.C.M. Variation among dentists in treatment planning. *Public Health Reports*, Hong Kong, Dept of Periodontology & Public Health, HKU, 1996, 86. (Publication No. 013939)

Fong, T.K., Law, K.N., Lo, J., Poon, P.L., Wong, C.W., Wong, K.K.K., Yau, W.L., Birn, H., Wong, M.C.M. and Schwarz, E. Selected procedures and use of dental materials. A comparison between Prince Philip Dental Hospital and general dental practice. *Public Health Reports*, Hong Kong, Dept of Periodontology & Public Health, HKU, 1996, 87: 37pp+app. (Publication No. 013934)

Prizes and awards

Cheung, L.K. *First Prize, Best Paper Presentation, The 3rd Asian Congress on Oral Maxillofacial Surgery, Kuching, Sarawak, Malaysia, March 28-31, 1996.* (Publication No. 012038)

Chow, T.W., Au Yeung, K.M. and Clark, R.K.F. Sagittal condylar guidance in Southern Chinese (Best Oral Presentation). *2nd Biennial Meeting for the International College of Prosthodontists, Asian Chapter, Yokosuka, Japan., 1996.* (Publication No. 027302)

Chow, T.W., Wong, D.M.S., Cheng, Y.Y. and Clark, R.K.F. Are dry heat cured acrylic dentures really "dry"? (Schottlander Poster Prize) for the best poster. *44th Annual Conference of British Society for the Study of Prosthetic Dentistry, Stratford, U.K., BSSPD, 1997.* (Publication No. 027313)

Holmgren, C.J. The estimation of the needs for periodontal treatment in adult Hong Kong Chinese using the Community Periodontal Index of Treatment Needs (CPITN) and an evaluation of a minimal periodontal therapy programme. *PhD dissertation, University of London, UK, 1997.*

Leung, K.C.M., Chow, T.W., Woo, E.C.W., Chung, W.C. and Clark, R.K.F. Schottlander Poster Prize. *43rd Annual Conference of British Society for the Study of Prosthetic Dentistry, Belfast, 1996.* (Publication No. 020272)

Rabie, A.M., Lie Ken Jie RKP. Integration of endochondral bone grafts in the presence of demineralized bone matrix. *International Journal of Oral and Maxillofacial Surgery, 1996; 25:322-318* - "The best Manuscript published in 1996" in The International Journal of Oral and Maxillofacial Surgery.

Yip, H.K. Improving teaching in higher education: evaluating aspects of a dental course: an evaluation of a pre-clinical operative technique course. *MEd dissertation, Division of Education, University of Sheffield, UK, 1996.* (Publication No. 027373)

RESEARCH CONFERENCES ORGANISED

Faculty of Dentistry, The University of Hong Kong

1. 12th Annual Scientific Meeting, March 1997.
2. International Symposium on Formation and Repair of Mineralised Extracellular Matrix, October 1996.

Research Conferences as Co-organisers

1. Centre for Materials Science, The University of Hong Kong, 2nd International Conference.
2. College of Dental Surgeons of Hong Kong. 3rd Scientific Meeting.
3. International Orthodontic Conference (ICO 97), Beijing.
4. School of Stomatology, Wuhan Medical University, China. Surgical Week on Cleft Lip and Palate Deformities.
5. Department of Oral and Maxillofacial Surgery, Prince of Songkhla University, Thailand. Comprehensive Management of Cleft Lip and Palate Deformities.
6. Ragas Dental College and Hospital, Madras, India. Secondary Correction of Cleft Deformities.
7. Asia-Pacific Section and 2nd Scientific Meeting of the Hong Kong Society of Oral Implantology, Hong Kong. Third International Conference of Oral Implantology.
8. Royal College of Surgeons of Edinburgh. 8th Overseas Meeting, jointly with the College of Surgeons of Hong Kong.

FACULTY ANNUAL SCIENTIFIC MEETING MARCH 1997

ORAL PRESENTATION I

Session 1: Periodontology & Microbiology

Chairman: Professor L. Samaranayake

Professor I. Davies

Corbet* E.F., Tam J.O.W., Zee K.Y., Wong M.C.M., Lo E.C.M., Mombelli A.W. & Lang N.P.

Effects of chlorhexidine (CHX) combined with or without debridement on gingivitis.

Samaranayake* L.P., Tsang P.C.S., & Nair R.G.

Oral manifestations of HIV-infected individuals in Hong Kong.

Leung* W.K., Jin L.J., Samaranayake L.P. & Chiu G.K.C.

An investigation of subgingival microflora of patients after head and neck irradiation.

Zee* K.Y.

Effect of delmopinol hydrochloride mouthrinse on plaque formation and gingivitis in “rapid” and “slow” plaque formers.

Jin* L.J., Leung W.K., Corbet E.F. & Samaranayake L.P.

Salivary granulocyte elastase activity as a screening test for adult periodontitis subjects.

ORAL PRESENTATION II

Session 2: Oral & Maxillofacial Surgery

Chairman: Dr. I. Ormiston

Dr. L.K. Cheung

Comfort* M.B. & Chow T.W.

A short-term clinical evaluation of 3.3 mm Brånemark Fixtures.

Xia* J., Tideman H., Wang D. & Yu S.

Concepts of 3D surgical simulation and planning.

Cheung* L.K., Samman N. & Tideman H.

Surgical morbidity of a modified method of Le Fort II osteotomy.

Rodrigo* M.R.C., Campbell R.C., Chow J.C., Tong A. & Chow K.C.

Pre-operative ondansetron for nausea and vomiting following maxillofacial surgery.

Tonner-Tse* K.M. & Li T.

Tolerance level of digital radiography in Hong Kong.

ORAL PRESENTATION III

Session 3: Dental Public Health

Chairman: Professor E. Schwarz

Dr. C. Holmgren

Schwarz* E., Lo E.C.M. & Wong M.C.M.

Impact of fluoride on age- period-, and cohort trends in dental caries of Chinese preschool children.

Wong* M.C.M., Schwarz E. & Lo E.M.C.

Oral health knowledge and attitudes among parents of Chinese kindergarten children.

Fung* D.S.H. & Schwarz E.

Prevalence of and risk factors for dental fear among Hong Kong children.

Chu* C.H., Lo E.C.M. & Schwarz E.

Patient's satisfaction with dental care in the health service of The University of Hong Kong.

Holmgren* C.J., Lo E.C.M., Hu D.Y. & Wan H.C.

Dental caries status of 12-13 year-old schoolchildren in Sichuan Province, PRC.

Payne* B.J. & Schwarz E.

Nursing caries in pre-school children at the English-speaking kindergartens in Hong Kong.

ORAL PRESENTATION IV

Session 4: Orthodontics, Dental Materials & Restorative Dentistry

Chairman: Dr. B. Rabie

Professor R. Smales

Wei* S.H.Y., Gwinnett A.J. & Tay F.R.

Effect of a self-etching primer system on resin-dentin interfacial ultrastructure.

Gu* Y. & Rabie A.B.M.

Early treatment of pseudo class III malocclusion - dental and soft-tissue changes.

Cheung* G.S.P.

Use of sodium hypochlorite solution for root canal irrigation: post-operative pain.

Leung* V.W.H. & Darvell B.W.

Stability of tooth minerals in plaque fluid and saliva.

Shen* G. & Liu K.

Effect of traditional Chinese medicine on tooth movement in rabbits.

POSTER PRESENTATIONS

Samaranayake L.P., Matee M.I. & Scheutz F.

Biotypes of oral *Candida albicans* isolates in a Tanzanian child population.

Panagoda C.J. & Samaranayaka L.P.

Relative cell surface hydrophobicity of *Candida parapsilosis* and *Candida albicans*.

Lai M.C. & King N.M.

Dental anomalies in cleft lip and palate patients.

Cheong C.H.L., Tang E.L.K. & So L.L.Y.

Mesiodistal crown dimension of Southern Chinese in Hong Kong.

Peng L. & Cooke M.S.

10-year reproducibility of natural head posture: a longitudinal study.

Lee D.H., Zee K.Y. & Corbet E.F.

Effect of metronidazole dental gel in treated adult periodontitis subjects
Clinical and microbiological data after 12 months.

Geng Sufang & Caifang C.A.O.

Evaluation of the role of topical NSAIDs in periodontal disease.

Itthagarun A., Wei S.H.Y. & Wefel J.S.

Effects of different commercial dentifrices on enamel initial lesion progression.

Gao W., Smales R.J. & Lam W.T.C.

Fluoride release and weight loss from ART technique GICs.

Chow T.W. & Cheng Y.Y.

Woven polyethylene fiber reinforced complete dentures.

Smales R.J., Etemadi S., Drummond P.W. & Goodhart J.R.

Preparation design and posterior resin-bonded porcelain restoration fracture.

Newsome P.R.H.

The role of the dentist in prevention and management of sports-related oral-facial injuries.

Gale M.S. & Darvell B.W.

Computer mapping of interface tracer distribution with serial abrasion.

DENTAL RESEARCH SEMINARS 1996/1997

January 15th, 1996

Dr. L.K. Cheung (Department of Oral & Maxillofacial Surgery)

TEMPORALIS MYOFASCIAL FLAP IN MAXILLOFACIAL
RECONSTRUCTION: CLINICAL, CADAVERIC AND ANIMAL STUDIES

January 29th, 1996

Dr. M. Botelho (Department of Conservative Dentistry)

THE COMBINED ANTIMICROBIAL EFFECT OF SURFACTANT AGENTS AND
GLASS IONOMER CEMENTS ON CARIOGENIC ORGANISMS

February 12th, 1996

Dr. V. Leung

(Dental Materials Science Unit)

TOOTH MINERAL:
STABLE OR NOT?



February 26th, 1996

Dr. C. Sedgley (Oral Biology Unit)

ENTEROBACTERIACEAE IN THE HUMAN ORAL CAVITY

March 11th, 1996 (Joint Seminar)

Dr. C. Yu (Department of Periodontology and Public Health)

ESTERASE LEVELS IN STATIC AND FLOW GINGIVAL CREVICULAR FLUID
FROM HEALTHY, GINGIVITIS AND PERIODONTITIS SUBJECTS

Dr. D.H. Lee (Department of Periodontology & Public Health)

CLINICAL AND MICROBIOLOGICAL EFFECTS OF METRONIDAZOLE
DENTAL GEL IN ADULT PERIODONTITIS

April 9th, 1996

Professor G. Sperber (Professor of Oral Biology, University of Alberta, Edmonton, Canada)

MOLECULES, MUTATIONS AND MORPHOGENESIS

April 29th, 1996

Mr. G. Panagoda (Oral Biology Unit)

PATHOGENIC FEATURES OF *CANDIDA PARAPSILOSIS*: AN EMERGING
PATHOGEN

May 13th, 1996

Dr. F.R. Tay (Department of Children's Dentistry and Orthodontics)

THE OVERWET, OVERDRY PHENOMENON IN DENTINE BONDING

October 7th, 1996

Professor R.J. Smales (Department of Conservative Dentistry)

POSTERIOR RESIN BONDED PORCELAIN RESTORATIONS: DESIGNS AND
FAILURES

October 28th, 1996

Professor L.P. Samaranayake (Oral Biology Unit)

HIV TRANSMISSION IN DENTISTRY: THEORY AND REALITY

November 11th, 1996 (Joint Seminar)

Dr. E.H.N. Pow*, Dr. R.K.F. Clark and Dr. T.W. Chow (Department of Prosthetic Dentistry)

RELINING OF COMPLETE DENTURES - LINEAR DIMENSIONAL CHANGES

Dr. K.C.M. Leung*, Dr. T.W. Chow, Dr. C.W. Woo and Dr. R.K.F. Clark (Department of
Prosthetic Dentistry)

BOND STRENGTHS OF ALGINATE ADHESIVE

Dr. N.K.H. Au Yeung*, Dr. T.W. Chow and R.K.F. Clark (Department of Prosthetic
Dentistry)

SAGITTAL CONDYLAR GUIDANCE IN SOUTHERN CHINESE

November 25th, 1996

Dr. L.J. Jin (Department of Periodontology and Public Health)

A CLUSTER INFECTION OF PERIODONTOPATHOGENS AND GCF
ELASTASE ACTIVITY IN ADULT PERIODONTITIS

January 27th, 1997 (Joint Seminar)

Dr. W. Lui (Department of Oral & Maxillofacial Surgery)

A CEPHALOMETRIC STUDY OF STABILITY AFTER MAXILLARY
IMPACTION

Dr. E.F. Corbet (Department of Periodontology & Public Health)

DENTAL GRADUATES' PREPAREDNESS FOR PRACTICE - THEIR VIEWS ON
THEIR EDUCATION

March 24th, 1997

Dr. Y. Gu and Dr. A.B.M. Rabie (Department of Children's Dentistry and Orthodontics)

EARLY TREATMENT OF PSEUDO CLASS III - DENTAL AND SOFT TISSUE
CHANGES

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