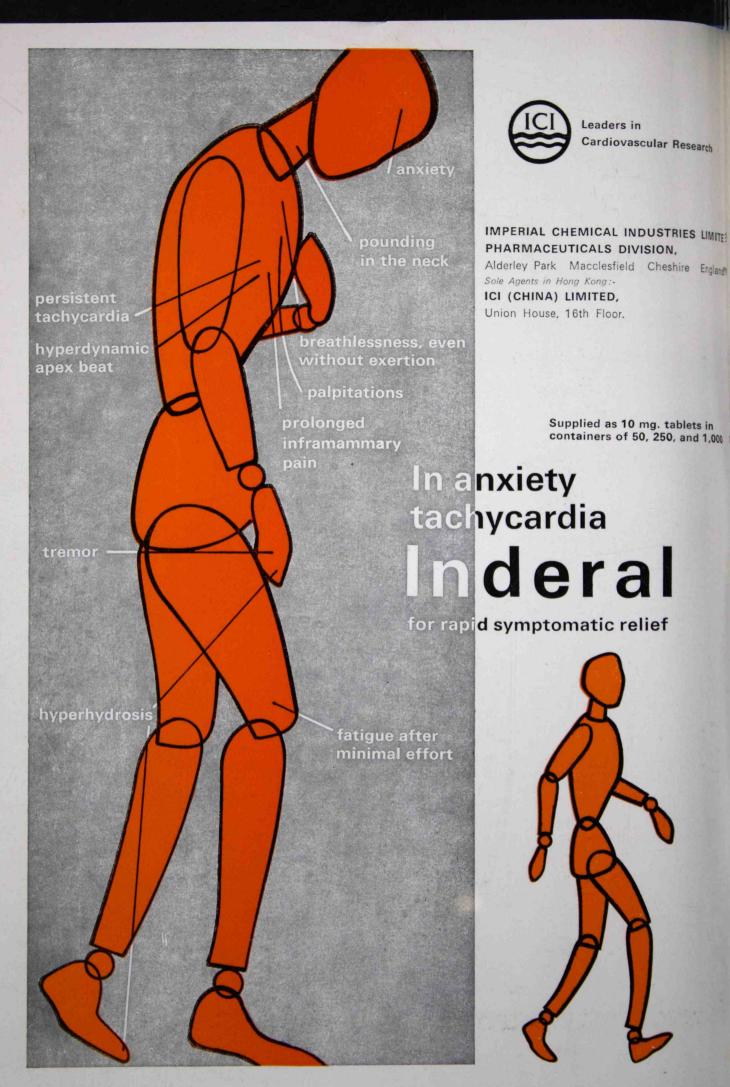
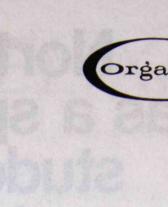
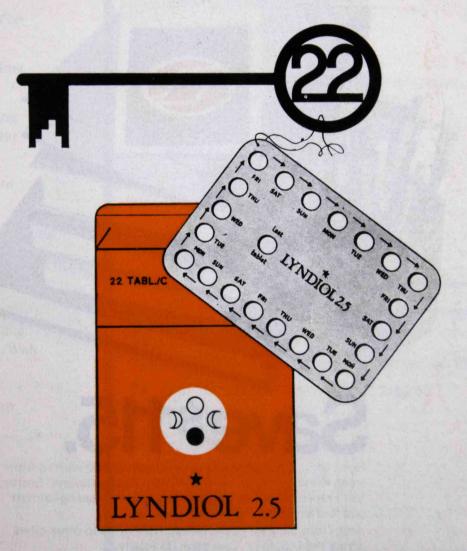
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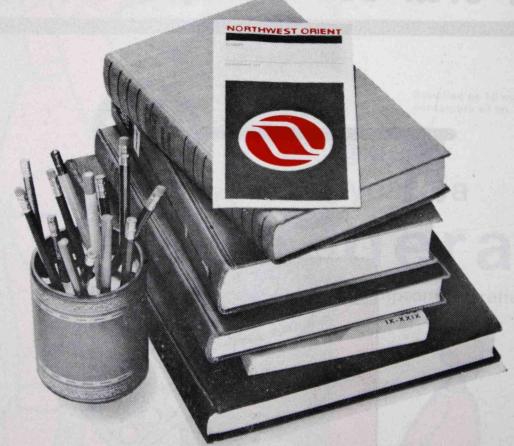


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Spring 1971

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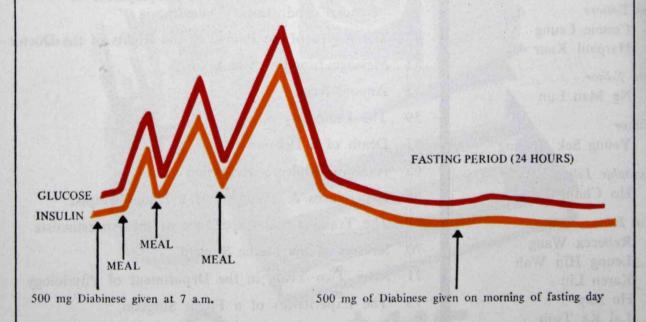
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Foreword

For one reason or another, many a medical student has hesitated to answer the question on what field of specialisation he will up on his graduation. We deem it an advantage, therefore, if not a necessity, that the student be acquainted with a knowledge of the different careers he may join in his practice of the Art. With this in mind we have in this issue taken the opportunity to share the experiences of some of our predecessors who have taken their rank in the Profession, some still fresh with memories of their undergraduate days while others having made their mark in their practice.

In the Chinese section two writers have depicted, through their vivid descriptions of days spent on the soil of their homeland a heartfelt love and desire for their own country that rings its echo in us all.

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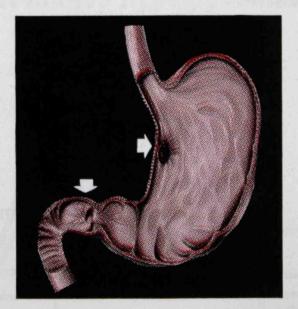
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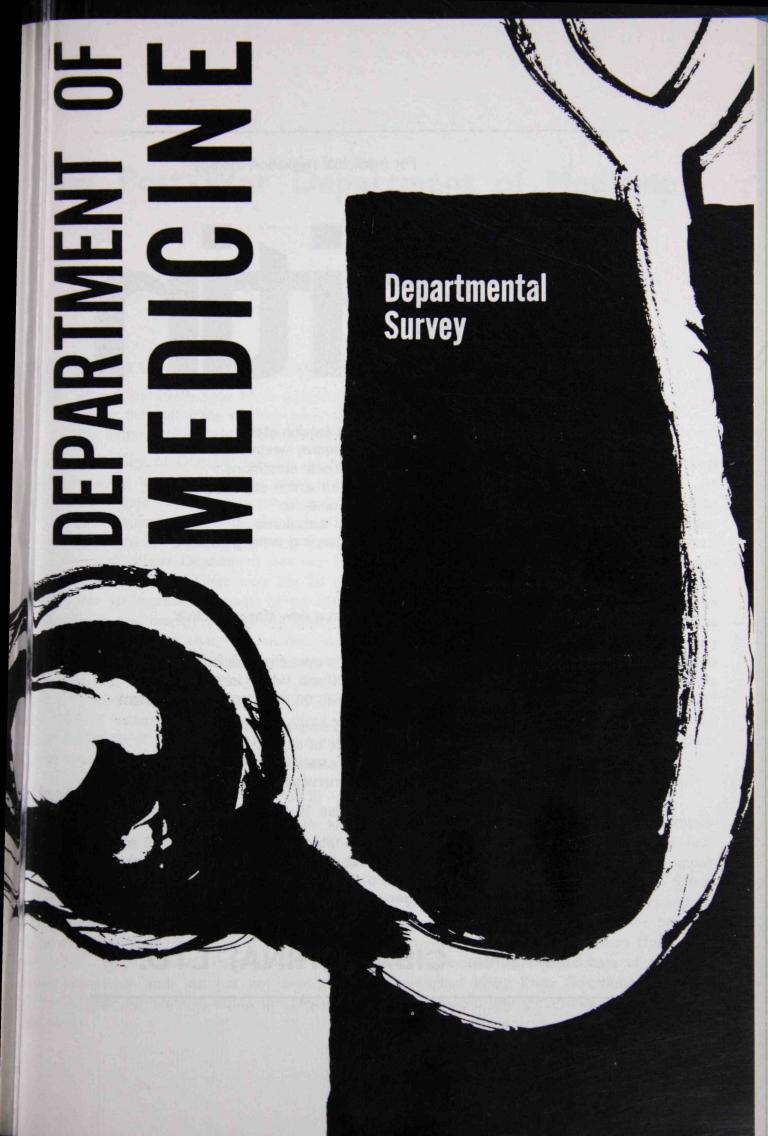
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The Post-War Department of Medicine

A.J.S. McFadzean,
O.B.E., Hon. D.Sc. (H.K.), M.D. (Glasg.),
F.R.C.P. (Lond. & Edin.), F.A.C.P.
Professor of Medicine

GHAT EXPECTATIONS & DISILLUSIONMENT:

In September 1948, sped by a quotation from Kipling at the Final Year Dinner "When the half-made recruity goes out to the East He behaves like a child and he drinks like a beast",

the University of Glasgow for that of Hong Kong with great expectations. n is of transport was by flying-boat which, if luck was with it, completed the trip in 5 days. At ley's end 8 days later disillusionment awaited me. The Department of Medicine was found to st of 2 wards each of 20 beds of which at least half was unoccupied; a laboratory, in which the item of equipment was an irreparably damaged centrifuge of Japanese manufacture, and a small ce. The staff of the Department was one Professor — there wasn't even a secretary. The stu-\$\disposed no problem. There were but 20 in their final year and 22 in their penultimate year. I had not yet reached the nadir of my disillusionment. A request for funds to equip and run # Department was met by a niggardly allocation of \$5,000 to which the Vice-Chancellor added the g uitous comment, "See what you can do with that!" The reply was unprintable. There were two cirses of action open. The first was to quit. In the circumstances resignation would have been a rek, well-nigh childish reaction, as it commonly is, and would have led to the fulfilment of the part of Kipling's prophecy for the "half-made recruity". The alternative was to "soldier on" he hope of better things to come realising if they did not then solace in the bottle might well It in fulfilment of the second part of the prophecy. The latter course was chosen and the decihas never been regretted, at least, by me.

RUGGLE FOR FINANCIAL SUPPORT:

At the time of the decision I was not to know, although I soon found out, that the administion of monies in the University was so lax that a Head of Department could "go into the red" nout let or hindrance. With an unscrupulousness which beggars description and which appals today, advantage was taken of this laxity and certain basic apparatus was acquired. Subsently the China Medical Board of New York aided the struggling Department with munificent nts for the purchase of equipment and without these grants the Department could never have depoped as it has done, indeed, it is doubtful whether it could have survived. The then Hong Kong Rey Club and numerous former patients made generous donations for the purchase of additional carch equipment and, last but not least, the much maligned Hong Kong Government provided of on a generous scale to equip the Department when it moved into the Professorial Wing when was built.

STAFFING THE DEPARTMENT:

Staffing of the Department presented a problem. After several unavailing attempts to recruit from overseas, which in itself had certain obvious demerits, it was decided that the only solution was to embark on a programme of training our own graduates. The University, albeit very reluctantly, accepted the decision but it was not until 1965 that formal cognizance was taken of this programme. That it has been a success cannot be doubted and fears of the danger of in-breeding have, thus far, proved groundless. Perhaps the action which off-set this danger more than any other was the liberalising of the condition under which study leave might be granted to all members of the teaching staff.

There remains one major staffing problem and that is a shortage of technicians. This shortage has bedevilled the research activities of the Department and while there has been some increase in numbers over the years the total still falls short of that which may be regarded even as barely adequate. This results in members of the teaching staff becoming their own technicians in their research with a resultant deplorable loss in time.

THE PROBLEM OF ACCOMODATION:

Accommodation proved a harder nut to crack. The original laboratory was soon totally inadequate. The "old" casualty room was seized upon when it was vacated and fitted out as a Cardio-Respiratory Laboratory. Even undergraduates could not escape the rapacious physicians for their common room, such as it was, was converted into a laboratory and the attached lavatories into a fume cabinet and a dark room. The Wellcome Trust, in 1961, made a grant for their construction of temporary laboratory accommodation which would be used until such times ask Government provided adequate accommodation for the Department. Like all temporary structures it bids fair to becoming permanent. Eventually constant dripping did indeed wear away stone but it took 18 years before adequate facilities were provided. Tragically these facilities were designed for a maximum annual intake of 70 undergraduates into the Clinical Years and for the staff thereform Shortly both the intake and the staff will be more than doubled and this necessitates an expansion of the existing facilities.

A FAR CRY:

It is a far cry from the single laboratory with its broken centrifuge of 22 years ago to the excellently equipped suites of laboratories which house the Department today. The once solitary Professor is now supported by 19 full-time staff members which include 2 Readers and 2 Senior Lecturers, all of whom are graduates of this University. The 2 half empty wards of 20 beds have swollen to 6 wards with 237 beds and all of these are occupied. It is also a far cry from 20 students in the Final Year to the 143 of today.

If the reader has drawn the conclusion that the Department developed as a "one man band this is a misconception. In the early difficult years Dr. Stephen Chang, an outstanding teacher and clinician, Dr. Gerald Choa, Dr. C. C. Wong and Dr. Joseph Pan contributed substantially to i development. In later years Dr. David Todd, Dr. Rosie Young and Dr. K. S. Lai have been tower of strength and each and every one of the less senior members of the staff have also made the contributions. Last but not least successive "generations" of undergraduates have provided, albem unwittingly, successive stimuli which have resulted in changes, usually but not invariably, for the better.

THE THREE-FOLD AIMS OF THE DEPARTMENT:

The aims of the Department are, and have been throughout its post-war existence, threefold. The first is to provide the highest possible standard of patient care within the teaching hospital and its associated clinics. The patient is not only the most important individual in the hospital but

or six plays a most important role in the education of both undergraduates and doctors. If the stant rd of patient care is of the highest possible there is no doubt that, in witnessing this, much rull off" on to even the most resistant of students and a number of such are always with us. The extil aim is to contribute to the sum total of medical knowledge by engaging in research and this is attricably interwoven with the third and more important aim which is, in the words of his orderates, "to impart a knowledge of the Art" to those who wish to learn. This is not a simple mater of merely teaching the Principles and Practice of Medicine. The teacher must inculcate, both by factice and precept, an appreciation of the dignity of the profession for it is the bounden duty of all graduates "to maintain the honour and noble traditions of the medical profession". The stuant also must acquire a knowledge of the ethics which govern the relationships not only between physician and patient but also those between colleagues for, again in the words of a modern version of the Hippocratic Oath, his "colleagues will be as his brothers".

(1) PATIENT CARE:

The standard of equipment available to the Department for the investigation and management of patients is of the highest and there is a corresponding standard of patient care. But the clical load of in-patients and out-patients carried by members of the Department is enormous. It former is unavoidable for failure to carry it would result in a fall in the patient/student ratio with the acceptable minimum and clinical instruction would suffer. The latter load is grossly assive and much of it should not be carried. The Department's responsibility to outpatients proprishould be restricted to seeing new patients and to managing patients who fall within the pursus of specialists in the Department or patients who could not be adequately managed by others. Intunately there are many thousands of patients with irremedial disease who could and should nanaged in Government clinics but who, for a variety of reasons, are not so managed. The leased number of beds in the Department and the passage of time will result in the unnecessional being further and progressively augmented. A solution must be found to this problem the clinical responsibilities known at present very materially interfere with the research activities the staff.

RESEARCH:

Despite the heavy clinical responsibilities members of the staff have found time to engage in tearch in a wide variety of fields and these activities have been productive. How they have achieved is a source of wonder not only to myself but also to the many distinguished physicians who wisited us. Numerous papers have been published in journals of international repute. Unfortungly, an even greater number remains to be prepared for the Press. I know great pride in what has in achieved in and by the Department and especially when physicians of international repute speak high terms of the professional and academic qualities of members of the staff. But the recognition to in many areas the one-time pupils have outstripped their quondam master is a source of peculiar asure to me.

"TO IMPART A KNOWLEDGE OF THE ART":

The reputation of any Department depends to a very large extent upon the quality of its oducts which are scientific papers and those men and women who have received their education of training in it. By restricting publication of the former to journals of international repute a high undard is ensured and, importantly, they are subjected to the critical appraisal of workers in the me field in other countries. What then of those who have been described as "the parasites of the possible of the parasites of the par

fective whereas Clinical Practice was of a very high order. In my view this is an accurate assession of it was by no means a vintage year. It has proved impossible to persuade all but a few understanding of the disruption of function produced by disease. What of those who make of a year a vintage one? Again in the opinion of External Examiners who have known the good fortune of encountering such they would be outstanding anywhere. But there is another and important side to this coin. What do the consumers have to say of the goods that the Department provides for them. In a recent survey of undergraduate opinion the goods were considered to be of quality. The reputation of a Department depends also on another product, its postgraduates and lecturers-in-training may be so classified. Examiners in the two major Royal Colleges of Physicians in the United Kingdom have rated the professional competence of trainees from the Department very highly. Certainly there has been an unusually high proportion of passes. All this is very gratifying but there is no doubt that both the undergraduate courses and postgraduate training programme could be improved further. Both have imperfections which are known and probably there are others which are not apparent to us.

SOME THOUGHTS:

Sydenham, the Father of Modern Medicine, has been referred to as "a man of many doubt". Certainly he advocated for the physician what today would be referred to as periods of self-criticism. In writing this paper I have run the risk of being accused of the besetment of vanity and I have also mitted knowing pride in what has been achieved in and by the Department. But if I ask myself the question have I failed in any particular the answer is in the affirmative. I have failed to persuade the medical profession at large in Hong Kong that, in order to practise medicine with any measure of competence, the doctor must recognise that throughout his professional life he must undergo a process of continuous education. Tragically, in Hong Kong, education and vocational training all too commonly cease when full registration is obtained.

Let me finish on a lighter note. I have in the past frequently been asked the question why do you refuse to leave Hong Kong. Nowadays, for good and obvious reason, the question is asked in the past tense. There are a number of reasons but one of the major ones is that, over the years, teaching has given me the greatest pleasure of all and the Hong Kong medical student has come to occupy a place both in my affection and esteem. If, as has been frequently claimed, "he (or she) will bring me in my gray hairs in sorrow to my grave" a long time is being taken in encompassing my decase. But it would be a fatal mistake to interpret my admission as evidence of a softening in attitude and reactions. Be assured that the hard line still goes and you will continue to know the rough side of my tongue when you merit it.

The young physician starts life with twenty drugs for each disease, and the old physician ends up and one drug for twenty diseases

- Sir William Osler

THE

Professor A.J.S. McFadzean,

O.B.E., M.D. (Glas.), D.Sc. (Hon. H.K.) F.R.C.P. (Lon. & Edin.), F.A.C.P., J.P.

Professor McFadzean was born in Troon, Ayrshire, Scotland. He received his medical education in the University of Glasgow from which he graduated M.B., Ch.B. with honours in 1936. He was awarded the Brunton Memorial Prize as the most distinguished graduate of the year.

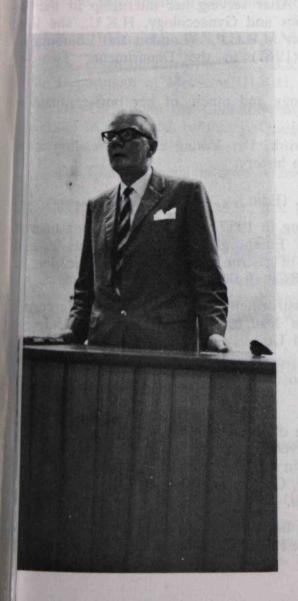
Following graduation Professor McFadzean held house appointments in Medicine and in various specialities appertaining thereto. From 1933 to 1938 he was an Honorary Demonstrator in Pathology. On the outbreak of war he joined the R.A.M.C. and saw service as a Regimental Officer mainly in the Middle East. He became a casualty just before the battle of Mareth and, on recovery, returned to the practice of his chosen specialty in base hospitals in Egypt where he became fascinated by tropical diseases. Following repatriation to the United Kingdom he was appointed Scottish Command Medical Specialist and Officer-in-Charge of a Medical Division.

On demobilisation in 1945, Professor McFadzean was appointed Lecturer and subsequently Senior Lecturer in the Muirhead Department of Medicine, University of Glasgow. He was appointed Professor of Medicine in this University in 1948 and, in the same year, Honorary Consultant to the Hongkong Government, to the Royal Navy and to the Army.

During his 22 years in Hongkong Professor Mc-Fadzean was at one time Vice-Chancellor of the University and since 1967 has been Dean of the Medical Faculty. He is a member of the Medical Council and of the Medical Advisory Committee and he serves on a number of other Committees.

In 1959, Professor McFadzean graduated M.D. with Honours from the University of Glasgow and his thesis was awarded the Bellahouston Gold Medal. He is a Fellow of the Royal College of Physicians of London and of Edinburgh and he is also a Fellow of the American College of Physicians. But the honour which he prizes most highly is the Honorary D.Sc. which was conferred upon him by our University earlier this year.

Professor McFadzean's research interests have been in a wide varity of fields. He is the author or joint author of over ninety papers. For relaxation he plays golf, writes poetry and paints but his spare time is mainly devoted to reading for he is a voracious and virtually omnivorous reader.



DR. DAVID TODD: M.D. (H.K.) F.R.C.P. (Edin.)

Dr. David Todd was Born in Canton, China in 1928. His early years were spent in Canton, Hong Kong, and various parts of South China moving with the tides of war. School was initially Diocesan Boys' and later Lingnan Middle School in Kukong, Kwangtung. After World War II and year at Lingnan University, Canton. he transferred to the Medical School in Hong Kong and the long awaited graduation took place one day in May, 1952. Life has been more or less inseparable from the Department of Medicine at Queen Mary Hospital ever since!

Dr. Todd spent the major period of post-graduate studies abroad in the University Department of Medicine, Royal Infirmary, Glasgow; and shorter visits to departments of haematology or medicine at University College Hospital Medical School, London; Washington University School of Medicine, St. Louis; various other medical centers in Britain and U.S.A. and the Department of Human Genetics, University of Michigan have followed.

Dr. Todd's special interests in medicine, apart from those dealing with the teaching of medical undergraduates, concern haematology — red-cell changes in splenomegalic states and hepatic cirrhosis, secondary erythrocytosis, red-cell enzymes, thalassaemia and haemoglobin synthesis and publications have been mainly on these topics.

Dr. Todd's non-medical interests include music from Bach to Wagner, stamps, boating, hiking good company, good food and good wine.

DR. ROSIE YOUNG, M.D. (H.K.), F.R.C.P. (Edin.), M.R.C.P. (Lond.)

Dr. Young graduated in 1953 with M.B., B.S. (HK). After serving her internship in the Unit versity Medical Unit and then in the Department of Obstetrics and Gynaecology, H.K.U., she joined the Department here as an assistant lecturer. She obtained her M.R.C.P. (London and Edinburgh) in 1959 and became lecturer (1962) and then senior lecturer (1967) in the Department. Two year later, she was made reader in medicine.

Dr. Young's main research interest lies in endocinology and much of her post-graduate research work and studies abroad is devoted to this specialty.

Besides her zeal for teaching and medical research work, Dr. Young chooses reading as her hobby and her taste ranges from English literature to modern history.

DR. K. S. LAI. M.B., B.S. (H.K.), Ph.D. (Edin.,) F.R.C.P. (Edin.).

Dr. Lai graduated from the University of Hong Kong in 1957 and joined the Department • Medicine, H.K.U., in the following year. He went over to Edinburgh in 1960 and was awarde Ph.D. (Edin.) in 1962 for his work on the biological assay of gastrin and its clinical application. It Lai obtained his MRCP (Edin.) in 1963 and was elected FRCP (Edin.) in 1970.

A major part of Dr. Lai's research is centered on gastroenterology, with special reference the stomach, liver, and pancreas. In 1964, Dr. Lai took the lead to cooperate with the Universit Surgical Unit in establishing a combined gastroenterological Unit.

Personal interests include badminton (in the old days!), bridge, and photography.

DR. S. C. TSO. M.B. B.S. (H.K.), M.R.C.P. (Edin.)

Dr. Tso is a past graduate of Queen's College. He obtained his M.B.B.S., (H.K.U.) in 1941 and joined the Department of Medicine, H.K.U., in July 1960. Dr. Tso takes a special interest haematology and part of his post-graduate study was spent in the Department of Therapeutics, University of Edinburgh (1962-63) and Paterson Laboratories, Christie Hospital, Manchester (1963-62) Special research interests lie in the control of erythropoiesis.

Dr. Tso has been an active undergraduate. He has been the secretary of the University H: Student's Association (1956-57), and a year later, he became President of the H.K.U. Students' Unic; A game or two of badminton has been on old hobby.

DR RICHARD Y.H. YU. M.B., B.S. (H.K.), Ph. D. (Lond.), M.R.C.P. (Edin.)

Dr. Richard Yu spent his secondary school days in Diocesan Boys' School. He entered the University of Hong Kong in 1952, qualifying with M.B., B.S., in 1958. Since then he began his medial training as medical officer in the Government Medical Unit, Queen Mary Hospital, working unc: Dr. G.H. Choa. Later he was trained in the Medical Unit, University College Hospital, London and obtained his M.R.C.P. (Edin.) in 1963, Dr. Yu was awarded Ph. D. of the University of Louon in 1966 for his work on the role of angiotensin in chronic hypertension in rabbits.

Dr. Richard Yu joined the Department here in 1966. His special interest embraces renal diseast and clinical physiology, while his research centres mainly on the normal physiological role of ren and angiotensin and their role in hypertension.

DIJDONALD Y.C. YU. M.B., B.S. (H.K.), M.R.C.P. (Edin.)

Dr. Donald Yu was educated in Diocesan Boys' School. He entered the University of Hong Korg in 1955, qualifying in 1960 with M.B., B.S. (Hons). Subsequently he joined the Department of Micine, H.K.U., as clinical assistant and then assistant lecturer. In 1964, he obtained his M.R.C.P. (Eln).

Dr. Yu received part of his post-graduate training in Brompton Hospital, Institute of Chest Dases, London (1964-66), working as senior house-officer and research fellow in the Medical Resch Council Unit of Immunology, Brompton Hospital.

Dr. Yu's special interest is respiratory physiology and his research centres around allergic lung dases and mechanism of bronchial constriction.

I. T.K. CHAN. M.B., B.S. (H.K.), M.R.C.P. (Lond.), M.R.C.P. (Edin.)

Dr. Chan obtained his M.B., B.S. in 1961 with honours. Having served his internship he jointhe Department of Medicine, H.K.U. in 1962.

Dr. Chan won the Commonwealth Scholarship to the United Kingdom from 1965-67 where worked in the Royal Infirmary, Glasgow and University College Hospital, London and where he ained his M.R.C.P. in 1966.

Dr. Chan's special interest is haematology.

L. ANTHONY K.Y. LEE. M.B., B.S. (H.K.), M.R.A. C.P.

Dr. Lee is a past graduate of St. Paul's Boys' College. He graduated with M.B., B.S. (H.K. in 1965 and joined the Department of Medicine, H.K.U., in the following year.

Dr. Lee was awarded the Commonwealth Scholarship by the Australian Government in 1968 became a member of the Royal Australian College of Physicians in 1969 (M.R.A.C.P.). Since in he worked as research fellow in Walter and Eliza Hall Institute of Medical Research in Melurne (1969-70).

Dr. Lee's special field of interest is immunology. In his undergraduate days, Dr. Lee has been airman of Lugard Hall Students' Association. (1963).

R. K.C. LAM. M.B., B.S.

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Meanwhile Dr. Lam is in Australia, sitting for his M.R.A.C.P. examination. Hence no in-

R. VICTOR W.T. YAN. M.B., B.S. (H.K.)

Dr. Yan completed his secondary education in Queen's College and entered the University of ong Kong with Morrison's scholarship in 1962. Dr. Yan has been with the Department since 1968, as assistant lecturer and later as lecturer.

Dr. Yan has been chairman of the University Hall Students' Association (1965-66) and his hobbies include swimming, stamp and coin collecting.

DR. S.K. LAM. M.B., B.S.

Dr. Lam did his secondary schooling at St. Joseph's College after which he joined the University Medical Faculty where he obtained his M.B., B.S. in 1967. After one year as an Assistant Lecturer in the Department, he was appointed Lecturer.

Dr. Lam has found his interest in the branch of Gastroenterology, and wishes to specialize in this field.

DR. CHRISTINA C.L. WANG. M.B., B.S. (H.K.)

Dr. Wang matriculated in 1963 from St. Paul's Co-Educational College. She obtained her M.B., B.S. with honours in 1968 and joined the Department of Medicine, H.K.U. in the subsequent year.

Dr. Wang was one of the Nuffield exchange students in 1968 and during her undergraduate days, she has been the Hon. Secretary of Medical Society, H.K.U.S.U. (1965-66).

DR. L. W. MAK. M.B., B.S. (H.K.)

Dr. Mak is a past graduate of King's College. He entered the University in 1963. He was one of the Nuffield exchange students to Sheffield University Medical School in 1968. With outstanding academic credits, Dr. Mak graduated with M.B., B.S. (Hons) in 1968 and joined the Department of Medicine, H.K.U. in the following year.

DR. T. F. TSE. M.B., B.S. (H.K.)

Dr. Tse spent his secondary school days in Wah Yan College, Kowloon. He obtained his M.B., B.S. (H.K.) in 1968. Having served his internship in the University Medical Unit and University Surgical Unit, Dr. Tse joined the Department in July 1969.

Dr. Tse has been an outstanding sportsman in his undergraduate days and sports is still his favourite to-day.

DR. RONALD NG. M.B., B.S. (H.K.)

Dr. Ng is a past graduate from Diocesan Boys' School. He graduated from the University of Hong Kong with M.B., B.S. in 1969 and joined the Department in 1970.

Dr. Ng has been an active undergraduate — being the Hon. Secretary, Executive Committee H.K.U.S.U. (1967) and the Council Chairman, Union Council, H.K.U.S.U. in 1968.

DR. ANDREW HUA. M.B., B.S. (H.K.)

Dr. Hua graduated from Diocesan Boys' School and entered the University in 1964. During his final undergraduate year Dr. Hua won the Nuffield Travelling Scholarship to Guy's Hospital London. He obtained his M.B., B.S. in 1969.

Dr. Hua's main interests include methods of communication and student work.

DR. S.C. SO. M.B., B.S. (H.K.)

Dr. So had his secondary education in Diocesan Boys' School. He was one of the 2 Nuffield Exchange Students to Guy's Hospital during his final undergraduate year. He obtained his M.B., B.S with honours in 1969. Having served his internship in the University Medical Unit and University Surgical Unit, Dr. So became a lecturer in the Medicine Department, H.K.U. in 1970.

Special hobbies include basketball and motoring.

DR. C.S. TENG. M.B., B.S. (H.K.)

Dr. Teng is a graduate of St. Paul's Boys' College. He qualified with M.B., B.S. (H.K.U) in 1969 and served as house officer in the University Medical Unit and Government Surgical Unit.

Though he has never dreamed of teaching before, fate led him to be a lecturer in the Department of Medicine, H.K.U. in 1970, and Dr. Teng is now pretty fond of the task of "imparting the knowledge of the Art" (Hippocrates).

Dr. Teng has some interest in the field of urology.

THE SECOND KENELM DIGBY MEMORIAL LECTURE

The Pathologist and Surgical Pathology of Head and Neck Tumours

T. B. Teoh M. D. Institute of Pathology

I wish first to express my sincere appreciation to 1: University Faculty of Medicine for inviting me to wer the second Digby Memorial Lecture. I am greatnonoured and also very pleased to have an opportuto contribute in a small way to the memory of a teacher. Looking back into the chronicles of Hong ing's own medical publications I was fortunate to the across the first volume of "Transactions of the ingkong Medical Society" published in 1889. This ciety was founded in September 1886 and its first sident Patrick Manson in his presidential address ted "A worker in China has in many respects a gnificent opportunity. There is no lack of material original and useful work." Twenty-eight years later 12 January 1914, Caduceus the journal of the Medi-Society of this University was founded largely ough the initiative of the late Prof. Digby. Kenelm gby's presidential address to the Society in 1924 emasised the need for studies of Pathology so as to tablish "standards" for the Chinese race. A very ting appreciation to this man of vision has been well corded by our learned speaker Prof. Sir John Bruce nen he delivered the first memorial lecture. It was a ivilege to hear this lecture and has made my task of lecting the topic of this second lecture easier. Sir hn's references to team work and the realisation that man's practice is often selective, and restricted to a articular corner of even that contracting field" have een most reassuring.

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Pathology originally grew out of clinical observations nd is still stimulated and benefited by contact with inical problems. Thus when a pathologist speaks at meeting to a mixed audience usually with more clinial interest, he is sometimes expected to provide the fundamentals" of the subject on which the clinical henomena are based. This expectation is based on a angerous fallacy. Our approaches to problems vary in ging made at different levels of biological organisation, lut none of these is more fundamental than another. Thus in selecting the subject of this lecture on "The athologist and surgical pathology of head and neck umours" I have in my mind certain problems which a general histo-pathologist has to answer when confronted with tissues removed for diagnosis from these areas. Like my predecessors I hold that morbid anatomy and nistology still hold the key to some of the unsolved problems which are an inspiration of research.

Tumours of the head and neck cover a wide range of pathology and in these regions many surgical specializies are involved. Besides the many problems which

confront us in histopathological diagnosis, the pathologist in some instances has to understand the language of clinicians. After more than 20 years contact with them my only concern is, to borrow Sir John's phrase, "with scientific concepts and philosophies". In these complex areas of the head and neck selection of material for this lecture is necessarily restricted and confined to one's gradually narrowing interest. I hope they are representative of problems which a general histopathologist working in China learns to understand and appreciate. The first group of tumours which attracted my interest when I first started pathology was nasopharyngeal carcinoma.

In 1930 Digby and his colleagues noted that malignant tumours of the nasopharynx "are seen with considerable frequency in Hong Kong but are rare in most parts of the world". Patients usually presented with unilateral or bilateral enlargement of the upper deep cervical lymph nodes. Often biopsies of the enlarged cervical lymph nodes were carried out and the growths were diagnosed as either lymphoepithelioma, transitional-cell carcinoma or reticulum-cell sarcoma. when small bits of tissue were removed from the nasopharynx, the same problems in histological diagnosis were encountered. Among those diagnoses mentioned none has caused more confusion among pathologists and clinicians than "lymphoepithelioma". Lymphoepithelioma was originally described in France and Germany in 1921 as a cellular malignant growth in the nasopharynx consisting of a syncytium of large cells accompanied by a mixture of lymphocytes. The prevalence of malignant growths in the masopharynx in this geographical area presented good opportunities to clarify the histogenesis, the typing of these growths and the accurate histological assessment of biopsies.

Altogether 183 necropsies on malignant growths of the nasopharynx among Chinese were thoroughly studied, 125 were males and 58 females. By a special technique the nasopharynx was removed as a block together with the base of skull. The cervical lymph nodes were carefully dissected together with the large vessels of the neck. The experience gained from adequate histological examination of post-mortem material has been helpful in typing biopsies of the primary nasopharyngeal growths from 2116 cases. These comprised 1437 males and 679 females. The aged and sex distribution are shown on the Figure.

The naked-eye appearances of the primary growths are predominantly ulcers of varying sizes and depth involving part or the whole nasopharynx. However, the

roof and adjoining posterior wall are common sites for the primary growths. A few show nodular growths with or without ulceration. In one specimen the nasopharynx appeared practically normal except for fullness of the left pharyngeal recess. In such cases clinical detection is difficult or impossible.

Histological studies of the primary growths and those of the cervical lymph nodes show a similar range of structural variants. The predominant type of tumour cells contain moderately large, slightly irregular, ovoid vesicular nuclei with prominent nucleoli. The cells are often syncytial and may be arranged in sheets mixed with plentiful lymphocytes, features identical to those described for lymphoepithelioma. In other parts of the same growth there may be clumps of tumour cells separated by fibrous septa of varying thickness. Besides the type of tumour cells just mentioned, welldifferentiated squamous cells with or without keratin are also seen in parts of the growth in 8 per cent of cases. Other structural variants which may be present are pleomorphic, hyperchromatic nucleated cells and those with spindle-shaped nuclei resembling a sarcoma. In parts of the growth which show cellular ill-defined masses of tumour cells with plentiful lymphocytes. silver impregnation stain reveals reticulin fibres demarcating the tumour cell masses. However, there is no reticulin between the tumour cells. Serial sections of selected tumours may demonstrate continuity between tumour cell areas and the overlying squamous epithelium and also in-situ changes.

The histological study of metastases in organs which do not contain lymphoid tissue reveal that only the epithelial component is present. Furthermore in few tumours where the primary growths only show features of an undifferentiated carcinoma, the metastases contain foci of squamous differentiation.

All these observations clearly indicate that the histogenesis of these tumours is from the stratified squamous epithelium of the nasopharynx; they are thus epidermoid carcinomas. The confusing term "lymphoepithelioma" should be abandoned. The lymphoid component seen among tumour cells in the nasopharynx and in lymph nodes is only incidental and not neoplastic. The conclusion by light microscopy that these carcinomas arise from the squamous epithelium of the nasopharynx was further substantiated by Svoboda et al. (1967) who by electron microscopy demonstrated keratin fibrils in undifferentiated nasopharyngeal carcinoma cells.

I shall not go into details about the direct spread and metastases of nasopharyngeal carcinomas. Tables I and II illustrate the frequency of invasion of base of skull and the distribution of metastases. However, one mode of spread of malignant head and neck tumours worked out by Willis in 1930 is significant. He demonstrated a correlation between remote metastases and tumour invasion of the neck vein by metastases in cervical lymph nodes. He found that out of 25 cases with remote metastases, 24 had cervical vein invasion. In my original study of 31 untreated cases, there were 15 cases with remote metastases and out of these 11 had cervical vein invasion.

The aetiology of this disease is still puzzling. There is adequate evidence supporting a racial predisposition. Certainly environmental factors must play a part and have to be assessed from all angles. The early observation of Digby et al. (1941) suggested that the high incidence of nasopharyngeal carcinoma at a relatively early age in Chinese might be due to the prolonged inhalation of smoke in badly ventilated houses. However, epidemiological studies did not substantiate this. Recent

studies by Hadfield (1970) on adenocarcinoma of the paranasal sinuses among woodworkers in Oxfordshire and part of Buckinghamshire, by Acheson and his colleagues (1970) on nasal cancer among workers in the boot and shoe industry of Northamptonshire will stimulate wide investigations into unsuspected environmental carcinogens in this area. Further the preliminary report of nasopharyngeal carcinomas among bush pilots in Canada by Andrews and Michaels (1968) is of great interest and requires further study. A recent review by Epstein (1970) on EB virus quoted Henle who found that 100 per cent of patients with nasopharyngeal carcinoma have high litre antibodies to EB virus. The significance of this curious relationship is not yet known. It has been repeatedly recognised from the start that the EB virus may well prove to be no more than an opportunistic passenger living as a commensal in lymphoid cells. Although it is quite possible that EB virus may turn out to be a wild goose, the chase will provide information for the purpose of exclusion. Epstein commented that the role of viruses in human malignancy presents a considerable dilemma. Once a virus has been found which, from direct or indirect evidence, is suspected of oncogenicity in man, direct role in the causation of malignancy may be impossible to obtain. The question then remains as to the value of accumulating yet more and more evidence for the association of this agent with human malignancy and yet this information can never give a final definitive answer. It would appear at present that the only way to resolve this difficulty might be the long-term develop ment of an experimental vaccine and the undertaking of a trial pilot vaccination programme in an area of high endemicity of the tumour, followed by long-term prospective surveillance to detect any consequential decrease in the expected number of cases.

In animals tumours of the nasopharynx are rare but tumours of other parts of the upper respiratory tract have been recorded in dogs, horses, sheep and cattle. This subject has been well reviewed by Cotchin (1967) of the Royal Veterinary College. In Hong Kong neoplasms have been observed in the posterior part of the nasicavities of Friesian cows which usually show marked respiratory distress and foul nasal discharge.

Malignant tumours in cattle presumably arising from the mucous membrane of the ethmoid bone were: described by Stenström in Sweden in 1909 and 1915.1 The most detailed report of these tumours in 20 cattless also came from Sweden by Magnusson in 1916. Since then there have been only isolated reports, one from South Africa in 1936 and another from India (1964)/4 describing a case of adenocarcinoma in the nasal cavily of a bullock. Prof. Cotchin of the Royal Veterinary College kindly confirmed the first tumour here as being a carcinoma. This finding stimulated our interest and close collaboration with the veterinary surgeons of the Royal Hong Kong Jockey Club enabled me to study in detail the heads of 16 Friesian cows. On naked-eye examination they presented usually as large, fungating ulcerative growths. Gross invasion into the brain and paranasal sinuses was seen in 6 and 9 tumours respectively. The histological typing of the tumours is shown in Table III which compares my findings with those of Magnusson. Sarcomas and carcinosarcomas were more seen in my series. On the other hand there were epidermoid carcinomas, histologically showing varying degrees of cornification, accompanied by squamous metaplasia of the respiratory epithelium. Downgrowths of this epithelium merged with the underlying carcinomat In the adenocarcinomas, mucin can be demonstrated in both the glandular lumen and in the tumour cells. The undifferentiated carcinomas exhibit sheets or ill-defined masses of tumour cells with scanty fibrous and reticulin stroma. Mitoses are frequent.

to aetiology, intranasal inoculations of tumour mathal into the nasal cavities of normal cows failed to incle tumours. Transplants into the peritoneal cavity and subcutaneous tissue of rats failed to take. Explants of ese growths were cultured in vitro by Dr. Chang of ou virus Unit. She had been able to maintain the grown of these cells for more than 1 month and further in significance and mails of these cells.

Deculatively, rhinitis might be considered as a possible precursor lesion, being due at times to viruses, basina, moulds or parasites. Again the nasal mucous motorane of animals must be subjected to contact with a stricty of chemicals, some of them on their way to the mucosa, and some it seems possible, on their way of the study of these tumours so that features of example of the study of these tumours so that features of example of a bearing not only on upper respiratory tract tururs of animals but also those of man.

nother group of tumours involving the faciocervical is in which is of great interest to both surgeons and piblogists is the salivary gland tumours. The great dissity of histologic patterns encountered in these trours bear little resemblance to the appearance of the mal salivary gland. The histology has given rise to min speculation and varied terminology.

Up to the middle of the last century records of ours developing in the salivary gland, especially the tid, were scanty and lacked detailed histological nination. Paget in 1853 in his "Lectures on surgical ology" was probably the first to regard the salivary d tumours as a separate group, intimately connected the salivary glands. His histological description that e tumours were "composed of cartilage, or fibrous ilage, variously mixed with other tissues, and ecially with what appears to be an imperfect or a verted glandular tissue" was accurate. Billroth in 6 described a separate type of tumour which he ned "cylindroma" which I shall refer to later. In 9 he published the histopathological and clinical ords of 8 patients with tumours of the parotid and maxillary region. All his tumours showed nearly iilar features and four different types of tissue were sent namely: connective, cartilaginous and mucous lues, and areas of closely packed polyhedral cells. xe then the literature on the so-called "mixed nour" of the salivary gland has grown tremendously I centered mainly on the histogenesis. Virchow's pory that mixed tumour was mesenchymal in origin a not accepted by the French school which at a very ly period claimed it to be purely epithelial. To comcate matters further another theory suggesting their gin from embryonic remnants was put forward. Because the varied histological structure, uncertain histogenesis d clinical course, the classification of salivary gland nours before 1950 was based on diffusely delimited The lack of distinction between different types h varying grades of malignancy led to uncertainty ncerning prognosis and treatment of these tumours. is uncertainty in evaluating malignancy explains the despread acceptance of the term "semi-malignancy" llowing publication of Ahlbom's monograph in 1935 on lucous and salivary gland tumours". Except for Farland's work (1936 and 1942) the extensive literature salivary gland tumours contained no good reports of ge operative series until the early nineteen-fifties. It s only in the past two or three decades, following Chnical advances in surgery of the major salivary ands, that pathologists have been provided with suitable laterial to permit correlation of histological and clinical

features. Thus studies in the earlier half of the present century suffered from the lack of recognition of some now clearly differentiated pathological types. The work of Foote and Frazell in 1954 confirmed earlier observations, provided more detailed information about the rare types of tumours and gave us a more solid basis for classification. However, there are still a number of gaps in the typing of salivary gland tumours. The World Health Organization initiated a study 4 years ago on both minor salivary gland tumours to clarify major and further the histogenesis of certain group of tumours and their place in the classification. This classification for histological typing of salivary gland tumours agreed upon recently is shown in Table IV. Accurate typing of these neoplasms will eliminate variations in terminology and make comparison between one series of cases with another possible.

The present investigation is based on materials and records of the Institute of Pathology from 1961-1969. (Table V). There were 178 and 24 tumours of the major and minor salivary glands respectively. This collection can be considered as a random sample since there was no bias in the selection of cases for surgery; it therefore indicates the incidence of these tumours here. From the Table you will note that benign tumours are much more common than malignant ones. I will concentrate my discussion to the most common type, the pleomorphic adenoma.

The term "mixed tumour" was introduced nearly a century ago and is still widely used. This suggested that the tumour was of both epithelial and mesenchymal origin. Later Willis introduced the name "pleomorphic adenoma", which is more descriptive of the structural variants present in different parts of the same tumour together with mesenchymal-like areas. At present most authorities favour a purely epithelial origin and probably from the intercalated ducts. The major problem in accepting the epithelial histogenesis of these tumours is to explain the origin of cartilage-like substance from epithelial cells.

Pleomorphic adenomas in this series of cases account for approximately three-fourths of the tumours of the major salivary glands. There were more females than males and the largest numbers were seen in the 4th and 5th decades. The distribution shown in Table VI clearly indicates that the Chinese parotid gland is equally susceptible to tumour formation as people in the west. They occur approximately three times more frequently in the parotid than in the submandibular gland. This preponderance of tumours in the parotid was also observed by Chen and Loucks in 1933 among 45 cases of salivary gland tumours seen at Peiping Union Medical College. In contrast Marsden (1951) found that a larger proportion of salivary gland tumours among Chinese in Malaya arose in the submandibular gland.

For the minor salivary glands, pleomorphic adenoma again is the predominant type seen in Hong Kong. Even though the number of tumours in the minor salivary glands is relatively small, the incidence of palatal pleomorphic adenomas is comparatively high, see Table VI. In 1935 Prof. L.J. Davis who was one time Professor of Pathology in this University published a detailed study on 4 cases of palatal mixed tumours. These were encountered in only one year's routine surgical pathology work and 3 of them were Digby's patients. There were 3 females and 1 male. In the present series of 16 cases, females exceed males in the ratio of 10 to 6. Besides Chinese, J.N.P. Davis and his colleagues (1964) in Uganda also found a large proportion of salivary gland tumours arising in the palate of Africans. Thus

further work on tumours of minor salivary glands here will shed more light on this problem of palatal salivary gland tumours among Chinese. Clinically, Chen and Loucks in their 1933 paper noted that among their 45 cases observed in Peking approximately three-quarters had the tumour for 6-30 years and one patient for 37 years. In the present series 25 cases had histories of over 10 years, and among these six had the tumour for 30 years and one for 40 years. In the palate there were two cases with histories of 14 and 20 years respectively.

Briefly microscopic appearances of a typical pleomorphic adenoma show strands and masses of proliferating epithelial cells with differentiation into tubular or adenoma-like structures and proliferating myoepithelial cells. The latter merge with the myxoid, chondroid or fibrous areas. Another distinctive change noted among the epithelial cells is squamous metaplasia. This change was especially marked in one of my cases where the tumour was present for 40 years in the parotid of a female 68 years. It presented as a partly cystic growth 6 cm in main diameter. The cyst was lined by thickened well-differentiated squamous cells. The diagnosis of pleomorphic adenoma would have been difficult if not for the masses of epithelial cells with tubular differentiation seen on one side. In other tumours where myxoid and chondroid areas predominate the plentiful stellateshaped myoepithelial cells present can be shown to contain abundant glycogen. Histochemically Azzopardi and Smith (1959) proved that myoepithelial mucin which formed the ground substance of these areas belongs to the connective tissue type and is distinct from epithelial mucin. Besides glycogen, Mallory's PTAH stain when properly processed will stain the myofibrils blue. Mylius (1960) used this stain and the electron microscope to identify myoepithelial cells. His electronmicrographs depicted cytoplasmic myofilaments in cells of the myxoid area similar to those present in normal myoepithelium. Besides myofibrils, myoepithelial cells in pleomorphic adenoma are seen in close association with collagen fibrils. One striking pattern which I have observed is the rosette arrangement of myoepithelial cells around radiating fibrils of collagen. This strongly suggests that the latter is a product of myoepithelium rather than mere stroma of the tumour. This pattern was present in pleomorphic adenoma of the parotid, palate and lacrimal gland. However, in a paper by Coles and Jones (1967) entitled "Odontogenic tumour of lip" a very similar pattern of radiating fibrils was encountered and interpreted as dentine-like structure, an interpretation which I cannot accept. Last, electron microscopic studies of the chondroid areas are conflicting. In 1968 there were two papers, one by Welsh and Meyer and the other by Doyle et al. The former maintained that true cartilage cells were present together with epithelial and myoepithelial cells in the stroma. In contrast Doyle and his coneagues failed to identify chondrocytes but observed neoplastic myoepithelial cells embedded in a hyaline matrix similar to that of immature hyaline cartilage. They further postulated that similarity of structure and function of myoepithelial cells and visceral smooth muscle indicated that myoepithelium probably is mesenchymal in origin.

Another distinctive feature in a few pleomorphic adenomas is the presence of small masses or strands of cells surrounded by abundant cylinders or anastomosing bands of hyalinised stroma. The term "cylindroma" was used by Billroth more than a 100 years ago for a tumour with a hyalinised stroma surrounding or within islands of epithelial tissue. He used this term to designate a stromal feature of the tumour and not the epithelial component. The misuse of the term "cylindroma" is so

prevalent in the literature that it should be abandoned. This structural variant in a pleomorphic adenoma must not be confused with another malignant tumour of the salivary gland called adenoid cystic carcinoma. The hyalinised stroma I believe is a product of myoepithelial cells. In this distinctive stroma, special stains reveal the presence not only of abundant collagen but also plentiful elastic fibres.

The other problem concerning pleomorphic adenoma is the strong belief that the tumour is semi-malignant. Masson introduced the term semi-malignancy and was later supported by Ahlbom whose criteria for semi-malignancy were high cellularity, predominance of epithelial component, presence of cylindromatous structures, incomplete encapsulation and multiple foi, Eneroth (1964) reviewed 562 pleomorphic adenomas of the parotid more than 50 per cent of which were originally classified as semi-malignant. Careful follow-up of these cases, however, showed no higher incidence of recurrence than those cases with benign features nor were they responsible for metastases or death.

An illustrative case from the present series demonstrates the difficulties in histological diagnosis. A Chinese female aged 61 years complained of a growing mass over the angle of right jaw for 2½ years and enlarging rapidly in the recent 7 months. A superficial parotid lobectomy was performed in January 1965 for removal of the growth. The histological diagnosis then was a pleomorphic adenoma, but when the slides were reviewed, suspicious-looking cellular areas with mitotic figures were seen. A follow-up study, 5½ years after the operation, showed that the patient is alive and well.

The risk of post-operative recurrence of pleomorphic adenomas is generally considered high. McFarland in 1942 stated that more than simple microscopic examination would be required for post-operative prognosis and methods existing then were no more accurate or scientific than the flipping of a coin. He noted a 48 per cent recurrence among cases observed for 5 years. On the other hand Wyatt and his colleagues (1967) noted a 10 to 12 per cent recurrence rate among cases with primary excision after 10 years follow-up. This marked discrepancy can be largely attributed to evolution of better surgical techniques for more aggressive surgery based on a sound understanding of the behaviour of these tumours. Foote and Frazell have rightly stated that recurrence rate of primarily removed tumours largely reflects the quality of surgery within a special head and neck surgical department.

At present I am not able to give the recurrence rate for pleomorphic tumours treated here. These tumours have been operated upon by different surgeons in scaltered centres using different procedures. To dealer effectively with tumours of the salivary glands concentration of material in one specialised unit is essential. Such a set-up will permit better correlation of clinical and histological observations which have proved very useful in prognesis.

Recurrent pleomorphic adenomas invariably present to the primary growths which are solitary. This features was seem in all 4 cases of recurrent tumours, two after primary excisions 6 and 11 years ago and the other and two previous excisions with histories of the growth for 14 and 30 years. These recurrent growths are in almost all cases the result of incomplete removal of implantation of tumour cells in the operative bed. Once recurrence has taken place it will be difficult to eradicate the tumour.

lesides recurrence pleomorphic adenomas may unc:30 malignant change. There is general agreement on it is in the literature and carcinomas may develop in long-standing primary pleomorphic adenomas or currences following unsuccessful surgery. Patey, The ray and Keeling (1965) gave an incidence of app ximately 5 per cent of malignant change in ple orphic adenomas. In the present series 5 cardrivas have been identified, three in the parotid and two in submandibular glands. This gives an incidence of soproximately 3½ per cent. All the 5 cases were pri ry tumours and 3 of them have very long histories raring from 10 to 30 years. None had facial nerve parrysis. Spontaneous facial nerve paralysis which is ne atent is a clear indication of malignancy. Eneroth the Caroline Hospital, Stockholm, in a recent percommunication, observed that among 378 cases malignant parotid tumours 46 had persistent facial paralysis. Out of these 46 cases there were 6 na ints whose first and only symptom was spontaneous nerve palsy without clinical evidence of a tumour. Hi: logically carcinoma in pleomorphic adenoma may either singly or in combination, the features of aciocarcinoma, epidermoid carcinoma or anaplastic ca:noma. Our 5 cases reveal some interesting histolovariants. In one case within solid masses of moma cells there are small areas near the centre o bosed of closely packed collagen fibrils. Another our shows the presence of bone surrounded by pry differentiated epidermoid carcinoma cells many of with clear cytoplasm. Glycogen is present within e cells. Finally in one tumour there are bands of tle cells with moderately large, irregular, elongated rchromatic nuclei between fairly well demarcated ses of undifferentiated carcinoma cells. Van Gleson reveals the presence of collagen fibrils in between spindle cells. These were regarded as atypical carma cells by Patey, Thackray and Keeling and not a pmatous component. However, Doyle's observation the ultrastructure of the chondroid areas of pleomoradenoma showed morphological similarities between epithelium and visceral smooth muscle. This feature ther with the fact that the mucin associated with epithelium is identical with mesenchymal mucin e them suggest that myoepithelium is of meseno mal origin.

Mr. Dean, in this limited discussion on tumours of head and neck, I hope I have not disappointed those very generously spare the time to be here this ing. I have attempted to illustrate the efforts of a eral histopathologist with many limitations trying to ride some answers on problems of surgical pathology. rt from those which I have already mentioned, one olem lay beyond the scope of academic pathology. 's the communication gap between surgeons and hologists. The narrowing or closure of this gap can achieved on the basis of genuine, common interests certain clinicopathological problems irrespective of artmental hierarchy. On the other hand it is the hologist's responsibility to try to offer diagnostic pision. In order to improve this further one has to x into the future and assess whether present day is used for biological research can be utilised pro-bly for diagnostic and analytical work. The applican of electron microscopy to surgical pathology has in relatively neglected. The belief is that tissues fixed routine histopathologic examination are unsatisfactory evaluation of subcellular structure. In general there no dispute about this but recent investigations of sai and Rodriguez (1968) have shown that tissues fixed the usual way are suitable for the demonstration of Hain cellular structures allowing for diagnosis of certain

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neoplasms whose identification by light microscopy is doubtful or controversial. They cited a puzzling example of an enlarged cervical lymph node which showed prominent sinuses filled with cells containing large nuclei, prominent nucleoli and indistinct cell boundaries. Various diagnoses such as metastatic anaplastic carcinoma, malignant lymphoma and malignant histiocytosis of the "histiocytic medullary reticulosis" type are possibilities. The precision in histological diagnosis for such cases is required for further clinical investigation and treatment. Such cases without an obvious primary tumour the electron microscope proved to be of value. The electromicrographs showed that the tumour had features of an epithelial cell, i.e. abundant tonofilaments arranged in bundles, and numerous typical desmosomes. Thus a diagnosis of metastatic carcinoma was made and careful search revealed a small nasopharyngeal tumour. is but one of the many problems which confront a pathologist in the differential diagnosis of head and neck tumours. In order that this tool can be used more effectively a fixative for tissues has to be developed which will serve both light and electron microscopic

In histopathology the terminology has become more precise and there is a general agreement on taxonomy. This will facilitate the development of code systems for computer work. This fascinating piece of equipment is able to handle large amounts of data, the storage and retrieval of which is essential for analytical work. The full value of the computer in histopathology especially tumour work has not been thoroughly explored. In the identification of tumours the primary process is the recognition of pattern and relating them to information drawn from memory. This is a very complicated cerebral activity. Direct application of the computer to this diagnostic process is not yet possible. However, automatic recognition of patterns by the computer has made a beginning in the limited and relatively simple fields of cytology and chromosome study.

Finally in the last analysis the human being is still the prime mover. Looking back on Digby's presidential address to the University Medical Society in 1924, the historian will have no difficulty in assessing this man. His emphasis on imagination and critical sense, the former restrained by the latter, is even more important today when confronted with confusing material and moral issues. My old chief Professor Hou whom many of you knew well has repeatedly echoed these words, not only in pathology but also in the study of Chinese ceramics and bronze mirrors. In G.B. Ong's department the foundations for a critical and visionary approach to surgery have been laid and paving the way to bridge the academic generation gap. Personally I have benefited in some ways the fruits of his labours and I see a bright future for contributions to the pathology of head and neck tumours in Hong Kong.

Table I

183 NECROPSIES OF EPIDERMOID
CARCINOMA OF NASOPHARYNX DIRECT
INVASION

The state of the s	No. of Cases	Per Cent
BASI-OCCIPUT BONE	85	46
CRANIAL FOSSAE	70	38

Table II

183 NECROPSIES OF EPIDERMOID CARCINOMA OF NASOPHARYNX METASTASES

Site	No. of Cases	Per Cent
CERVICAL LYMPH NODES	128	70
LUNG	70	38
LIVER	90	49
SPLEEN	18	10
BONES	89	49

Table III

MALIGNANT TUMOURS OF CATTLE IN THE POSTERIOR NASAL CAVITY

	EPIDERMOID CARCINOMA	ADENOCARCINOMA	CARCINOMA	SARCOMA	CARCINOMA & SARCOMA	TOTAL
MAGNUSSON (1916)	0	1	٤	ć	5	2 0
TEOH (1970)	4	7	5	0	О	16

Table IV

W.H.O. HISTOLOGICAL TYPING OF TUMOURS OF SALIVARY GLANDS, 1970

I. EPITHELIAL

- A. ADENOMA
 - 1. PLEOMORPHIC ADENOMA (MIXED TUMOUR)
 - 2. MONOMORPHIC ADENDOMA
 - a) ADENOLYMPHOMA
 - b) OXYPHILIC ADENOMA
 - c) OTHER TYPES
- B. MUCOEPIDERMOID TUMOUR
- C. ACINIC CELL TUMOUR
- D. CARCINOMA
 - ADENOID CYSTIC CARCINOMA
 - 2. ADENOCARINOMA
 - 3. EPIDERMOID CARCINOMA
 - 4. UNDIFFERENTIATED CARCINOMA
 - CARCINOMA IN PLEOMORPHIC ADENOMA (MALIGNANT MIXED TUMOUR)

II. NON-EPITHELIAL

III. UNCLASSIFIED

IV. ALLIED CONDITIONS

- A. BENIGN LYMPHOEPITHELIAL LESION
- B. SIALOSIS
- C. OTHERS

Table VI

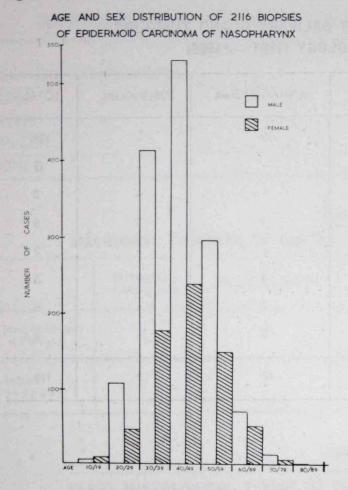
HISTOLOGICAL TYPING OF MAJOR SALIVARY GLAND TUMOURS
AT INSTITUTE OF PATHOLOGY (1961 — 1969)

TUMOUR	PAROTID	SUBMANDIBULAR	SUBLINGUAL	TOTAL
OMORPHIC ADENOMA	105	33		138
I ENOLYMPHOMA	12	a al Anssani	-	12
INIC CELL TUMOUR	3	Al. this arms res at	I make the second	3
COEPIDERMOID TUMOUR	2	1	2	5
ENOCARCINOMA	2	trains with the norm		2
DENOID CYSTIC CARCINOMA	2	3		5
ARCINOMA IN PLEOMORPHIC ADENOMA	3	2	HILL THE WAY	5
NDIFFERENTIATED CARCINOMA	5	3	-	8
TOTAL	134	42	2	178

Table V

DISTRIBUTION OF PLEOMORPHIC ADENOMAS IN MAJOR AND MINOR SALIVARY GLANDS

All Santa Car	PAROTID	SUBMANDIBULAR	SUBLINGUAL	PALATE	LIPS AND OTHER SITES	TOTAL
PATEY (1931)	3 8	6		5	5	5 4
HARVEY ET AL. (1938)	230	2 1	2	6	9	268
WILLIS (1967)	3.5	6	1	5		48
TEOH (1970)	105	3 3		16	7	161



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AN INAUGURAL LECTURE

ANATOMY DEAD OR ALIVE

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Pro-Vice-Chancellor, Professor Walsh, colleagues, additional gentlemen, it is a great honour to be invited, the Senate of the University of Hong Kong to delile an Inaugural Lecture from the Chair of Anatomy. India, it would be the greatest of honours and of pleases for any anatomist to stand in my place this even E.

iffore I begin I should like to use this occasion in my respects to two gentlemen. First to Professor Fize: Chang, my immediate predecessor, who so validate built up the Department of Anatomy. He had bourage and fortitude to embark on a vast program of growth studies which are still bearing fruit to the also was the creative spirit behind one of the mest anatomical museums which will stand as an ering monument to him. At the same time I also to remember my teacher of anatomy, the late professor E.J.R. Evatt of Dublin, whose enthusiasm and faightedness stimulated me in my student days to the professor in the pro

an's interest in human anatomy is as old as man elf, especially his interest in the anatomy of the site sex. And thus one may say anatomy began, probably one of the oldest of the medical scienard since the earliest days has been one of the estones of medical education, and this is a positivhich anatomy is likely to retain. I shall not buryou with a lengthy discourse on the history of omy, but rather deal with a brief account of the development and trend of the subject and its on to medical education and to research.

n tracing the history of the subject one actually we the evolution of the whole field of medicine. 2000 years anatomy dominated western medical nee through the works of Aristotle, Herophilus and n, while the anatomist Vesalius might be called the xder of modern medicine. We must also note that today we are rediscovering the early contributions e to medical science by the forefathers of modern icine from ancient China, India and the Middle. Their discoveries were either ignored or remained 10wn since medical scientists in the West were unto read their texts, and unfortunately the historians philologists of Europe and America were not, and are not, interested in the subject matter.

was the achievements of Williams Harvey (1578which provided a deeper insight into the true
of medical science. For he established the vital
cept that every organ has a discoverable function
must be integrated within the functioning of the
of as a whole. Here a physician was applying anaical, physiological and mathematical principles both
the advancement of knowledge and the benefit of
patients, the first vision of medicine as an inmation of primary sciences.

At this time too the professors of physic had to teach not only anatomy but also logic, philosophy, Greek, botany, zoology and the practice of surgery and medicine. Thus at this stage medicine was truly integrated with the cultural background as well as with all the disciplines that at that time had a bearing on medicine. As knowledge increased, the subject matter gradually became specialised and fragmented into separate departments. And so in each branch the compass of learning increased. Early in the 19th century physiology separated from anatomy. The first chair in physiology was filled by Purkinje at Breslau in 1824, while the first chair of physiology to be established in England under William Sharpey was at University College London, in 1836. Later on further subdivisions of anatomy such as histology and embryology emerged. Pathology in its modern form originated with the recall of Virchow to Berlin in 1856. Since then every decade has been marked by the proliferation of new disciplines, each one presided over by an autonomous head who feels it his duty to his subject to see that sufficient hours are allocated to it in the curriculum. Thus the old principle of integration was systematically overthrown.

During the 19th century the knowledge of gross anatomy, histology and embryology increased enormously both in scope and detail. Topographical anatomy was especially important in relation to the development of modern surgery. Detailed information on anatomical regions was vital for safe surgical intervention, particularly as with the advent of Lister and Semmelweiss antiseptic practice gave an opportunity for more exacting operative procedures. And at the turn of the century the development of anaesthesia allowed for more complicated techniques which were mostly based on greater anatomical knowledge. At that time every medical student had to learn his anatomy in detail and was taught by anatomists who had at one time or another practiced surgery. In Britain the latter had to hold the Fellowship of one of the Royal Colleges of Surgeons. This surgical diploma was both de rigueur and de reg!e for any aspiring anatomist, while today it is considered unscientific.

The observation and recording of the fine structure of tissues as seen through the microscope became one of the anatomical specialities. A great deal of fundamental material was accumulated, much of which proved to be basic to the study of pathology and to biology. And in another speciality, embryology, the interests at that time were centered on the development of different structures rather than on the causetive forces at work.

In general the anatomists of the 19th century followed the classical approaches of morphology and comparative anatomy. This period was the collecting phase where details of structures and their relationships were recorded and comparisons made with other organisms.

The origins of tissues and of man were hotly debated. The great Virchow pronounced that the Neanderthal skull belonged to a modern man who had suffered from rickets, while Mayer of Bonn declared that Neanderthal man was a demented Mongolian Cossack who had been left behind by the Russian Grand Army in 1814, and only an Irish anatomist by the name of King from Galway dared to say that he could possibly be one of our ancestors.

With the rise of the experimental approach to biological problems all this began to change. The method was first pioneered by the early physiologists but since 1875 it has been as much the tool of the anatomist. In that very year Hertwig demonstrated that the essence of the act of fertilization lay in the fusion of a single sperm with a single ovum. This discovery together with that of the principles of heredity by Mendel was the dawn of genetics, the passing on through a solitary sperm and egg of the hereditary qualities of the next generation. Then Roux and his coworkers showed how one could interfere with the course of development following fertilization. Thus they sought to infer the course of normal development.

The experimental method, however, could not have arisen but for the vast improvements in the microscope and the development of better fixation and staining techniques. It was the microscope that brought about the reunion of morphology and function. Only a few highlights need be touched on now. Schleiden and Schwann introduced the cell theory, Roux in 1885 performed the first tissue culture and, before the century expired, His senior enunciated the neurone theory. This was followed in the first half of this century by the development of autoradiography under London and Kotzareff, the introduction of the phase contrast microscope by Zernike, and in 1931 Knoll and Ruzcka produced the first electron microscope which gave birth to cell biology.

Towards the end of the 19th and the beginning of this century anatomists, due to their interest in physical anthropology began to use biometry and statistics, which they later extended to experimental work. It was through morphology that this important mathematical tool was introduced to the other medical sciences. Already long ago Helmholtz had stated that all science is measurement, to which Sir Henry Dale had later added that all true measurement is essentially comparative. And comparison is the essence of experiment.

During the last twenty years anatomy departments in Britain and other countries have made substantial contributions in the fields of growth, neuroanatomy, adaptation, endocrinology, cell biology and tissue culture and transplantation. A few random examples will serve as an illustration. In neuroanatomy comparison of the regional effects of mental activity and visual stimulation upon the electroencephalogram shows that these functionally different cerebral activities have a neuroanatomically distinct origin within the brain. Endocrine studies have demonstrated a specific role for adrenal androgens in controlling sexual receptivity in the female rhesus monkey, while ovarian hormone plays a significant part in regulating the sexual preference of the male for one of a pair of females. In the field of adaptation, work on morphological changes in response to differences in altitude have revealed characteristic changes in the structure of the pulmonary trunk. Investigations of the growth of children in Hong Kong have given us information on the influence of the socioeconomic status on various growth parameters. Study of the fine structure of chromosomes in the mammalian oocyte has shown that differences in chromosomal morphology may

be correlated with interspecific variations in radiose sitivity. And a technique has been developed a maintaining prostatic tissue from monkeys and from man with benign prostate hypertrophy in organ culture. In this way it has been shown that the neoplastic tissue actively metabolises testosterone in culture.

In many instances anatomists have been pioness in the development and biological use of a variety at new techniques and instruments including histochemic try, cytochemistry and autoradiography. In addition more traditional work in histology, comparative anatomy embryology and physical anthropology continues to ex hance our knowledge of human biology. Here work by revealed that the action of intra-uterine devices in now mal rhesus monkeys cause constant histological change in the endometrium, though hormonal normality of the latter is maintained. The investigation of changes in oxygen tension in relation to early embryological development has produced remarkable vertebral malformer tions that are helping us to understand some of the mechanisms of transformation during early growth. And measurements of selected bones and muscles have been used, in canonical analyses, to correlate structure locomotor activity in primates. These investigations point to the relative importance of particular groups of muscles in relation to the varied ways in which by limbs are used in different species and emphasize high degree of specialization found in man when cons trasted with sub-human primates.

Today the progress of anatomy depends, to a large extent, on the perfection of instruments of observation and control. Some of the most recent and most power ful adjuncts to anatomical study have come from physics. Thus the transistorised amplifier enables us to measure minute currents and potentials in living systems, as for example in the investigation of the functions of the brain, and in radiotelemetric technique developed for stimulating and recording tension in the muscles of conscious and unrestrained monkeys. Thi electron microscope which bridges the gap between the light microscope and the interatomic dimensions state died by X-rays, and the use of isotopes and tracer elect ments which help in the elucidation of the actual pro cess of transformation of chemicals in living system are carrying us to the very frontiers of cell and molet cular biology. And more recently the laser beam has become an important tool in experimental work. Let comotor and postural problems in primates are also being investigated on the basis of biomechanical prime ciples. Similarly the advances in chemistry, such a selective cytochemical methods, are of great benefit ! anatomy. In addition statistical theory, and the use o computers in applying it, have proved invaluable exacting significant information from the characterist cally variable measurements of biological science.

These new methods are already transforming out concepts not only of biological structures but also biological functions and thus provide us with new mensions in human biology. Anatomy has clearly evolved beyond the merely natural history approach of formed ages. Structure and function are indivisible, the one is unthinkable without the other. In the light of the modern developments Sir Wilfred Le Gros Clark reduffined anatomy as the science of the form and structure of living organisms which is concerned with the study and interpretation of those factors which determine or modify form and structure, whether they are chemical, physical, physiological, developmental, or physiological, and with the precise relation between structure and function.

anatomy has adopted optical, radiological, electric, chemical and mathematical aids. By so doing, c e more, anatomy and physiology, and even biochem ly, are converging towards an unified discipline of hu in biology. All three deal with the mechanisms of livi: processes, although their approach is different. as their research work is concerned the comtrail barriers that separate them have eroded, as academic appointments go physiologists are becomi anatomists and anatomists are becoming physologics. In addition zoologists, physicists and chemists are entering the basic medical sciences. gross its of multiple advances over the enormous field of Firan biology emphasize the ever-greater need of tion. Effective advance in this area is necessant a combined operation. Having started off fully inter ed, the preclinical sciences diversified into many selfc rained subjects in response to the discoveries of the time and today we are again approaching the age synthesis in medicine.

the present time medical education and its reformat are very much in the minds of all those concerned in the training of our future doctors. We are all are that although the advances in anatomy and other provided in the sciences have been truly prodigious, unfortunally these have been slow in making themselves felt in sphere of medical education. Compartmentalisation the ideas of our mentors, a hangover from the old ays, still largely bedevil the curricular structure. We all victims of our pioneers. We are also victims of own bright ideas. In this sense we relive in evided experiment our own intellectual palaced pay, trying to justify earlier ideas, trying to suck for them their last drop of inspiration.

storically speaking, positive action to reorganise all education along modern lines was first taken in America during the early half of this century. New ated programmes were designed that broke down trificial boundaries between the disciplines and emandaments which has had a beneficial effect ghout medicine. Thus the students were trained the outset to think of the body as a whole. But also has to take heed, there are signs that some of more spectacular experiments in medical education merica are not turning out quite as well as had hoped. This is not an argument against such iments but it emphasizes the importance of deliplanning and of avoiding gimmicks.

n Britain the first medical school to adopt such an ok, against considerable objection, was that of the ersity of Birmingham. And here I wish to take the rtunity of expressing my gratitude to Professor Sir Zuckerman of the Department of Anatomy and the cal School with which I had the honour to be assited for some fifteen happy years. And I am glad by Birmingham continues in the forefront of medical cation. Gradually other medical schools followed and today there is quite a ferment in British medithinking.

Since the Second World War a series of official commess have reviewed British medical education: the denough Report (1944); the report of the British relation (1948); the General Medical Council (1957); in 1968 the most far reaching of these the Report the Royal Commission on Medical Education, other-known as the Todd Report. All of them demand athless pruning of the curriculum, the elimination of ill and greater integration. The key principle to be owed is to educate more and instruct less and to the medical student into a scientific doctor. How-

ever, it has to be remembered that any change in the medical curriculum is difficult to assess since the whole course takes over five years and the product must serve at least for another five following qualification, thus ten years have to elapse before a proper assessment can be made.

The Todd Report, in many ways admirable, certainly can stand as a guide for the next decade. However, it is unfortunate that though the report contains a good deal of preclinical evidence the committee did not include a single anatomist or physiologist. This rather underlines a notion that is current, and is generally applied to the preclinical sphere as a whole, and stems from the fact that we all seem to have been brought up to believe that different kinds of scientific activity can be graded socially because of a presumption that some imply a higher intellectual quality than others. Too often medical practitioners assume that medical preclinicians are failed clinicians and that nonmedical preclinicians have never quite made it! What has to be realised is that anatomy and phsiology are sciences in their own right, as biochemistry is, with their own dynamics and ethos and that the vocational aspect of their subject matter, though of importance, has een relegated to a subordinate position.

In certain quarters there has been some objection to the proposed two-year preclinical course as set out by the Todd Report. The feeling is that the curriculum should be shorter and designed to train the clinician, i.e. the course should be less scientific and more vocational. The controversy as to how much of each is not new. But the point of view that there is a fundamental distinction between the medical scientist and medical practitioner is erroneous since both employ the same procedure in their work. When confronted by a problem both observe the facts, reason out a working hypothesis and then act upon it. The outcome confirms, refutes, or modifies the hypothesis and this in turn may lead to further action. The retntion of a certain amount of vocational matter can also be justified educationally in so far as the biology of man illustrates fundamental principles, and one must realize that medicine is applied human biology. It is also quite clear that at the moment the national budgetary exigencies in the technologically advanced countries as well as the shortage of medical manpower tend to press for a rather greater vocational content in the preclinical curriculum. In the future, however, it may well be that the preclinical period will be extended to three years, of which the first two will deal with the basic medical sciences, while during the last year an elective subject will be chosen out of those covered earlier and that this will be treated in greater depth under the guidance of one or other of the preclinical departments. The products of this course will qualify with a B.Sc. in Medical Sciences and it is from these that the future clinical students will be chosen.

Wise decisions for today cannot be safely taken uniess one realizes that those same decisions determine the shape of tomorrow and possibly the day after. This realization, as Sir Solly Zuckerman stated, may not lead to the right decisions, but it might help to obviate some of the worse (Zuckerman, 1966). The basic objectives of medical education are that fundamental principles should be emphasised rather than factual detail. It is impossible to give a student a full training in the preclinical and clinical disciplines and make each one an expert in every subject. But it is possible to put him in a position from which to continue his own education. This means that he first must be trained to use the scientific method. The aim of teaching is to make

him think and to make him question common assumptions. He has to be made aware that medical knowledge is not static. At the same time one has to enable the student to relinquish the security of thinking in well defined channels and to find a new kind of stability based on the recognition and acceptance of ambiguity, uncertainty and even of open choice. The undergraduate must be given a thorough grounding in those basic sciences that are concerned with normal and abnormal structure and function on which the clinical understanding of disease depends. It is unfortunate that all too often the student considers the preclinical subjects as hurdles to be overcome rather than tools to be utilized in providing the best health care. The grounding in the primary sciences must be devised on the assumption that the newly-qualified doctor may have a working life of some forty years. And in this connexion it would be unwise to select only that which is immediately useful. Only if all these precepts are observed will it be possible for the individual to extend his education throughout his professional life and so safely exploit whatever advances may arise. This is why the undergraduate curriculum must also favour the acquisition of enduring habits of work and thought and of enthusiasm for study. With this training the young graduate should be able to enter any of the main branches of medicine and to develop his education in his selected speciality. Plato observed that education is a life-long task, and the growth of knowledge in medicine and in methods of education means that any recommendations as to the medical curriculum can never be final — they are always moving to that end but they never arrive.

Anatomy is nearly always the subject most criticised, partly this is because it has been identified with topography and dissection alone. Many of the criticisms are justified, anatomy has in the past been taught in far too much detail. But what is forgotten is that the subject has changed enormously since the undergraduate days of the clinicians and medical scientists currently most concerned with reshaping the medical curriculum. The belief of many clinicians that anatomy has not changed is still very strong. One is frequently asked whether students have to be able to discern the side to which a carpal bone belongs, or whether they have to learn all the branches of a particular artery. When one says that this sort of anatomy is dead and passed away by the end of the Second World War, and that today's students are examining the intricacies of the cell and the dynamic changes that occur during growth, hands are thrown up in horror and one is told "but that is not anatomy". This sort of attitude is, of course, tantamount to an anatomist saying that surgery is still at the chloroform and open ether stage of anaesthesia! The basis for this hostility towards anatomy is a psychological one, for the established doctor of the present day remembers with revlusion how he was harrassed in his student days with morphological detail. He forgets that just as his own speciality has evolved so has anatomy changed. Quite apart from alterations in the content of the courses, a glance at the time devoted to anatomy shows that consideralbe changes have occurred over a period of seventeen years (Table 1). It is therefore essential that before curricular alterations are made those concerned should ensure that they are truly acquainted with current conditions.

Year	Country	Range (hrs.)	Mean Total (hrs.)
1953	Britain	700—1400	950
1955	U.S.A.	562—825	650
1963	Britain	405-850	580
1969	Denmark	430	430*
1967	Hong Kong	712	712
1970	Hong Kong	525	525

Table 1. Total hours devoted to the teaching of anatomy.

* Students are sent to U.K. for an intensive three weeks course in dissection (about 90 hours).

When considering the contents of a new course in anatomy there are several criteria for deciding selection. Some topics are useful as a tool for training in the scientific method, others provide a fundamental basis for other subjects, thus a knowledge of the anatomy of the kidney is necessary for the understanding of the physiology, pathology and clinical aspects of this organ Practical work is essential for the need to develop the capacity for observation and investigation of unknown material by standard techniques. At the same time as allowance must be made for subject matter of potential scientific importance. Again, it has to be emphasized that principles rather than details must be taught and that there has to be a reduction of factual details that there has to be a reduction of factual details not a total elimination of facts. We also have the remember that the study of anatomy introduces the medical student to the greater part of medical terminology, this is a point that is frequently lost to sight

In connexion with the revaluation of anatomy within the preclinical context and by way of comment, I just want to touch, in passing, upon a rather interesting publication. Recently there appeared the first of a three volume work, A companion to medical studies, which was designed to deal with the preclinical sciences. This volume has been hailed by many as forward-looking and relevant to modern ideas in medical education. And I am sure the authors wished to eliminate all that is interested to the many and include all that is important and of mall relevance today. While not wishing to detract from the experience today. While not wishing to detract from the ever considered it worthy of a statistical analysis. Such an analysis is most illuminating (Table 2). Over half of the volume is devoted to anatomy, one quarter to physiology, about one seventh to biochemistry, and about one seventeenth to such important fields as psychology, sociology, human genetics and statistics. In fact topographical anatomy occupies more space than the total of physiology. Is this an indication of the relative importance of the subject matter today? This parts dealing with anatomy were quite rightly pruned down to what was considered essential, but it was at dead as that of any of the older textbooks, what was so lacking in topographical anatomy was the functions approach.

It is quite clear that a modern curriculum must keep pace with the new developments and has to reflect not only changes but also differences in emphasise In taking this into account one has in anatomy to distinguish two parts, the scientific and the topographical To a certain extent this division tends to be artificial since the two are interrelated, but from a teaching point they can be considered separately. Scientific and tomy deals with the fundamental principles, although will, of course, include some matter that has a vocational bearing. Topographical anatomy, on the other hand, though based on fundamental concepts of human biology, is vocationally orientated and more of an applied nature.

Scientific anatomy embraces certain basic subdivenous:

(a) Cell biology, which narrows the gap between morphology, biophysics and biochemistry and also ${\bf i}$

Subject	No. of Page	% of Total
Topographical anatomy	265	26.0
Embryology	85	8.3
Histology	126	12.3
Neuroanatomy	81	7.9
Total anatomy	557	54
Total physiology	254	24
Total biochemistry	148	14
Others *	62	0 ₫

* Includes: psychology and sexual behavior 28p., socal logy, 7p., human genetics 12p., statistics 15p.

Table 2. An analysis of A companion to medical st dies, R. Passmore & J.S. Robson (eds) Val 3, 1, Oxford: Blackwell (1968). cills cytogenetics, the natural link for the study of luman heredity. It is a frontier subject that is briting down the walls between the biological and procal sciences. Cytology without a doubt will a prominent part in the future of anatomy.

Hit logy, which is concerned with the structure — furzion relationship of tissues is intimately based up 1 cytology and is a solid link with physiology.

G:vth, which concerns changes in dynamic structure relationships in space-time patterns and increase prenatal and postnatal development, the latters, of course, closely associated with paediatrics. Fortunately so far very few medical schools teach a thing about growth although a vital subject in its right.

(a) I:rology, the organisation of the nervous system, with deals with the stimulus — response relations in the structure and function are more intricated bound up with one another than in any other of the body. This is a subdivision that can only properly taught in conjunction with physiology.

itematic anatomy, which includes the study of general arrangement, form and gross structure the skeletal, muscular, joint and other body systems, as well as those factors which influence or diffy their spatial relationships. In this part one st also include human evolution, human varians and adaptations which in turn link with genea, physiology and pathology.

ese five subjects are already being taught or introduced in one form or the other in Hong They should of course not be dealt with in isolaut rather integrated with physiology in the first and with biochemistry and pharmacology where pos-This is the only logical way in which to present a tic view of the preclinical subject matter. Good ation avoids much of the unnecessary duplication goes on in so many preclinical departments. As oned before, the anatomist when discussing strucnas to mention function, similarly the physiologist ently finds it necessary to introduce anatomical contions in order to be sure that the student apprethe structural basis of the functions he is about plain. From this standpoint any survey of a textof physiology is most revealing. True integration, ver, presents formidable problems of teaching oration. The way to overcome this lies in concentratnitially on those areas where the structure - funcrelationship is closest and where it is easiest to n such a course, as for example in neurology. Grav this can be extended until ultimately most of the nical disciplines are integrated. In this procedure general principles of development and structure of a m or an organ should be presented first and then ved by the functional aspect. Thus there is a cencore common to anatomy and physiology, accomed on either side by one body of knowledge of purely omical interest and another of physiological interest In addition clinicians should be drawn into this ram in order to point out the relevance of the scienbase to the clinical superstructure. In the matter of e integration the preclinical sciences have gone a deal further than the clinical subjects, who, to a extent, are still at the discussion stage.

The second major division, topographical anatomy, th has been severely cut in Hong Kong in order to porate some of the basic anatomical science mall and in order to relate it to the living body, is much more clinically orientated and in a sense

could be termed applied anatomy. It forms the foundations for procedures in diagnosis, radiology, surgery, obstetrics and in other medical fields and therefore is more vocational in emphasis. Though concerned with practical work in the dissecting laboratory, it does combine topographical with radiological anatomy and living or surface anatomy. Topographical anatomy is a science of the living, not of the dead, and though our knowledge is, perforce, acquired from the cadaver it is in terms of the living that we must think. It also teaches us something about human and constitutional variations - no two bodies are ever alike anatomically — and about the plasticity of the human form and biological variation of living populations. Thus, for instance, Ethiopians have a large ascending loop of the sigmoid colon that may reach to the level of the liver while most other people have an intrapelvic sigmoid colon, this is the reason why sigmoid volvulus is the commonest abdominal emergency in Ethiopia. No course in topographical anatomy can be considered without normal radiological anatomy since it relates cadaver anatomy to living anatomy and forms the backbone to the radiology of pathological conditions. In the past too little attention has been paid to this important subject. And living anatomy only becomes meaningful when muscles, bones and joints can be seen and felt alive with movement and when palpation, percussion, auscultation and endoscopic examination reveal what is hidden to the naked eye.

A major criticism of topographical anatomy has been the amount of time devoted to dissection, and owing to this the question has arisen whether it might not be just as good to learn the subject from ready dissected specimens. The time factor can certainly be greatly reduced if the students are directed to dissect according to a strict time table. As regards the value of dissection versus a study of prepared parts, there is no doubt as to which is the more rewarding. From experience gathered in Birmingham and Addis Ababa it is clear that the knowledge gained from dissecting a cadaver is retained longer and more vividly than that gained from examining prepared specimens. Dissection of the body is an essential basis for the understanding of human structure, organization and function. It is a visuo-tactile method of learning and is of value as a discipline and as a training in observation and investigation. It often comes as a shock to the student to discover during dissection that the body does not agree with the textbook. Dissection is itself a basic research method in application for the student which is carried out no where else in the preclinical course — the student does his own investigation and confirms or contradicts the literature, i.e. actual research in the proper sense, and he uses a technique that is analytical in nature. One cannot teach locomotion or the limits of joint movement until the student has dissected the relevant parts, else he cannot understand what is happening, except, of course, he can learn the matter by heart from the book!

The question that arises in connexion with topographical anatomy is when should it be taught. Traditionally it is dealt with in the preclinical years where it exists rather in isolation. Topographical anatomy is one of the firm bridges between the preclinical and clinical periods and really ought to be taught during the clinical years in conjunction with surgery, orthopaedic surgery, obstetrics and the new field of traumatic surgery. Here is the best place since otherwise many essential details will be forgotten long before they can be used. The reasoning for this is quite simple, a surgeon spends much of his time operating and much of operative surgery is no more or no less than applied topographical

anatomy. Anyone who has had the misfortune to see a surgeon flounder and fluster, completely lost in the depths of the pelvis or the neck, or who has been called to the theatre to sort out tendons and nerves divided at the wrist which have perplexed the operator trying to deal with them, or who has had to deal with the sad business of a damaged biliary tree or a cut ureter, realizes the value of a deep knowledge of topographical anatomy. The great majority of practising surgeons spend most of their working life using their anatomical knowledge which therefore ought to be imbibed during the relevant clinical phase.

The amount of topographical anatomy that is necessary varies from environment to environment and is closely related to the socioeconomic conditions of a region. In technically advanced countries a good case can be made that only the essentials need be taught while the details can be left to postgraduate specialist education, thereby allowing more time for the scientific aspect of the preclinical sciences. On the other hand in developing countries the need at this stage for a very much greater concentration on detailed topographical anatomy is obvious, for the moment the student graduates he is expected to practise surgery, often in remote parts of the country. To cite only one example, in one of the African countries a young graduate of two weeks standing had to perform a hysterectomy by the light of a torch held by a medical auxillary. In these environments therefore a different sort of anatomy has to be taught with a main emphasis on the vocational which is much more directed towards the immediate needs of the

As regards Britain, the Todd Report, while not denying the importance of topographical anatomy, recommended that the major part of this ought to be taught at the postgraduate level since it was mainly of specialist interest to the surgeon. In this way too, British medical schools would be able to continue to recruit their temporary lecturers and demonstrators in anatomy who after one or two years specialisation sat their Primary Fellowship of the Royal Colleges of Surgeons. These people, in fact, provide about twenty to forty per cent of the academic staff in a department of anatomy. Within the last two years, however, the Royal Colleges of Surgeons, of Physicians and of Obstetricians and Gynaecologists have been considering replacing the Primary Fellowship by a common examination in applied human biology. If this plan goes through, it will raise one question and create one problem. At what level in medical education should topographical anatomy be learnt, for it must be dealt with at either the undergraduate or the postgraduate level. And the problem that departments of anatomy in Britain are about to face is from where are they going to get their badly needed staff? These medical graduates, who have temporarily joined the academic world, have so far belonged to the few who have been able to relate the scientile part of anatomy to the clinical subjects. In future this useful source will be closed. The effect will be serious for already ordinary recruitment into the preclinical sciences is difficult.

The task of an anatomy teacher is to lead his class through a course of instruction, but the responsibility for progress rests entirely with the student. Unfortunately the student's notion of a good teacher is usually one who hands out exactly what he needs to pass the examination, because this enables him to get through with the minimum of effort. Obviously the teacher must protect the student from work which is useless, and this necessitates distinguishing between education and the giving of information. Education develops the capacity for scientific investigation and reasoning, whereas the

giving of information, though important, neverthelestends to suppress curiosity and to stifle critical thinker and can even lead to a waste of time and effort of worthless detail.

Instruction in anatomy, as in any other scientifications subject, is by way of lectures, seminars, tutorials and practicals with the aid of audiovisual and other equipment. In many medical schools anatomy, and in particular topographical anatomy, has been and is being taught by lectures. This form of presentation has promably done the greatest harm to the reputation of any temporal to the greatest harm to the reputation of any temporal to the subject presented by living corpses. The regurgitation of masses of dry facts is a traumatic experient with devastating effects for it has not only sent many an audience to sleep, but it has also instilled in the student an eternal enmity towards the subject. It would have been better to advise the student to read a test book than to attend one hundred and fifty lectures topographical anatomy. For far too long lectures has been the standby in the preclinical departments.

The School of Education in the University of F mingham recently did some investigation into method of presentation (Stones, 1969). Although the port is concerned only with student opinion and n with the efficacy of the different methods used teaching, nevertheless it should be considered versionally. This investigation is backed up by other e dence too. The report revealed that students pre teaching groups on a seminar or even tutorial bas they reject the lecture and see its only function as device for giving out factual information. Research the efficacy of the lecture method (McLeish, 1968) sho that an instructional system which relies too hear on it is probably very inefficient. The method app ently copes with problems of large numbers, but would have been possible to achieve the same res by other means such as guided reading, which won help to free students for small group discussions. L tures must, therefore, be confined to subject ma which is really suitable. It is clear that the seminis preferred by students for very real pedagogic i sons, since it represents an optimum size which increase the group resources of knowledge, variety approaches to problems and the ability to provide fe back without at the same time inhibiting individual participation. The students feel that they must me a personal contribution to the teaching and learn process and also that they need to do some prep $\ensuremath{\mbox{\scriptsize \P}}$ tion for small group work, while hardly any feel same about the lecture. Similarly too the tutorial tem has obvious advantages.

One of the most admirable facets of British mear education has been the clinical teaching method. tutorial or apprenticeship approach, known as clin clerking, has withstood the test of time. Here a su group of students is guided by a series of sel clinical tutors through the rigours of medicine and gery up to the time that each student is ready to sent himself for the finals. This system incorpor all that the seminar or tutorial method represents. wonder that the student who enters the clinical waafter surviving the preclinical torpidity breathes a air and never will look back. Why is it that the clinical departments are so slow in adopting seminar system? The answer, as to so many proble is financial: the clinical departments have a far last number of academic and honorary staff that they draw on than the preclinical departments. Howeven spite of these difficulties the seminar and tutorial tems are slowly being introduced into the latter.

necticals are of inestimable value, particularly if the lan be arranged in small groups. Here in Hong lectures in topographical anatomy have and ined, instead an effort has been made to teach this a seminar types of practicals since this is the this a seminar types of practicals since this is the of students headed by a tutor dissect to a go: of students headed by a tutor dissect to a throughout which function is stressed and they as have to present essays. Their work is constantly rel d to the living body, and radiology plays an import it part in this. In addition it is planned to consolite the newly acquired anatomical knowledge with lectures given by clinicians that stress the parto r relevance of a region to clinical practice. Owing to is shortage of staff rather larger groups have to be arriged in the microanatomical and neurological pr : cals.

the teaching has to be rather selective than compressive much will be left to the students' private reing. This requires careful supervision. It is unwise to expect a student to use a 1000-hour reference book for a 100-hour course. Too many teachers persuade the selves that students develop a sixth sense for setting relevant material. But how can they judge is relevant when they have no knowledge of the seasily drown themselves in detail. It also has to remembered that textbooks may err. History may repeat itself but the writers of textbooks do, and his way error is perpetuated.

Apart from the educational side, anatomy has also ervice function. This aspect has alrtady been mened in connection with the various clinical fields and quite obvious in such important branches as surorthopaedics, traumatic surgery, neurosurgery, obrics, gynaecology, and so forth. In medico-legal anatomists are of value in the problem of idenation, sexing and age determination of human rems. Archaeology too derives a good deal of help n anatomy in the analysis of prehistoric demography population migrations, much of the latter is of a istical nature. In his study of the evolution of man human adaptation and variation, the anatomist has a considerable influence too on physical anthro-ggy. And an understanding of anatomy has been damental in art and sculpture, for in these works exterior surface contours and expressions reflect underlying fascia, muscles and bones and are Jally brought to life.

But there is one other service that anatomy form, and indeed it applies to the other medical ences as well, and that is the help that can be en to medical schools in the developing world. I all briefly mention this in relation to Africa though is also relevant to other regions. The urgency of the edical manpower problem is underlined by the fact at many governments in Africa still rely heavily on patriate medical staff. Thus the percentage of extriate doctors for example (Bennett, Lutwana & Hall, (64), is 47 per cent in Mali, 80 per cent in Niger d 82 per cent in Congo (Brazzaville). In Ethiopia, with population of 23.5 millions, there are about 340 doc-TS (1968) of whom about 40 are Ethiopian, i.e. 88.2 er cent are expatriate. In addition it has to be realis-I that in some African countries considerable numers of private practitioners (this term includes docars belonging to religious missions and private enterises, as well as those engaged exclusively in private factice) do not take part directly in the work of pubmalth services. They work almost exclusively in urban areas where only a small percentage of the population lives.

To attract the right kind of university teachers is absolutely vital. In the first instance they will have to be to a large extent expatriates, though the main aim should be to train local experts as well. The continued reliance on expatriate academics in the various branches of medicine, though traditional, has certain inherent dangers since there is a great shortage even in the developed part of the world, owing to the rapid expansion of medical education and the national health service demands. Such a sustained demand for graduates by the advanced countries will widen the manpower gap even more since it will encourage a braindrain to the developed regions from areas that can ill afford such losses. Here individual departments of medical schools in the advanced countries can give real aid. Thus some of the more fortunate anatomy departments can be of service in the training of anatomists for developing countries. If they have the possibilities and facilities then they have, in fact, a duty to help the weaker departments. In many ways this is a two-way help - it helps the poorer country to get its medical teachers trained and on the other hand they help the staffing situation temporarily in the better-off medical schools. Though the trainee should be shown and at least introduced to the latest techniques, yet primarily he must be trained to meet the teaching and research situation that obtains in his home country where electron microscopes are at present unobtainable and the experimental use of laser beams at this stage verges on criminal waste of badly needed capital and effort. The man must be trained to use local resources and be able to do applied research that can benefit his country more immediately.

The proliferation of medical schools in the under-developed countries at this stage of their development is a real danger, since this duplication will inevitably lead to an underutilisation of intellectual capacity and a continued squandering and dispersion of resources. Only an integration of medical education can ensure the high level manpower specialisation which is so essential for public health development. In fact medical imperatives necessitate integration Medical schools are extremely expensive and only worthwhile and effective if properly set up. These sorts of projects demand inter-country cooperation, i.e. between neighbouring countries.

No department of anatomy can exist on teaching alone. Research, the spirit of inquiry, must permeate a scientific department, this is part of its life force. By its very presence this spirit can be transmitted to the students and fire their imagination and stimulate them in their studies, thus preventing them from becoming mere imbjbers of information and disinterested or even disenchanted with the subject they are studying. The dual role of research and teaching in a university department is obvious - one fructifying the other, similarly the service and research aspects of anatomy are interrelated, often resulting in important discoveries. The pure science part and the applied side have progressed conjointly over the years, the pure fertilizing the applied with ideas, and the applied often providing the pure with the physical apparatus to help in the next intellectual leap forward.

Various broad research fiields in anatomy have already been mentioned when dealing with its scientific side. Time does not permit delving into topics of my own interest. Suffice it to say, that the Department of Anatomy in the University of Hong Kong will continue with its research into the growth of children of this re-

gion, and various histological and cytological investigations are now also bearing fruit. In addition studies have been started on functional morphology in the field of primatology and more specifically in human biology. This work shows that the skeletal and muscular systems are plastic and easily adapt to changes in posture and locomotion with resultant wide spread morphological effects. This is not only of importance to the orthopaedic surgeon, but also of significance to the physical anthropologist. For this approach indicates that this method is of particular help in the elucidation of the sequential changes that occur in the fossil primates and will throw further light on the evolution of upright posture and locomotion.

In conclusion one may say that medical science is no more than the body of knowledge which is always being added to by scientists, through controlled and reproducible observations, which in turn must ultimately affect medical education. When considering anatomy, as indeed any other scientific discipline, and the relationships between the various subjects within the medical education at any one phase in our history. We must be flexible and courageous in initiating change, we must try to do it as logically as possible. While stressing one's own subject one must at all times be conscious of the greater unity of the whole, for medicine is a natural as well as social science, in the sense that it is concerned with human beings and is directed more immediately towards human welfare than any other natural science.

Ladies and gentlemen, it is my contention that tomy is not dead but very much alive and aware of its responsibilities within the totality of medicine.

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ABORTION

Daphne Chun and H. K. Ma

There has recently been much public and Drivate discussion on the need of an abortion law n Hong Kong. Opinions expressed are diverse. A come. Those who speak in favour of legalizing abortion the recent case of an orphan girl who was allegedly raped and was refused abortion, thereto the thy creating hardship for and heaping humiliation 21: 5 on her. They also claim that criminal abortions the awhich are on the increase in Hong Kong can be Lore reduced or wiped out with the introduction of the abortion law. Their opponents, however, largue that the present law is adequate in enabling the medically indicated cases to have therapeutic abortion. Furthermore, they contend that no person has ever been prosecuted in carrying out the present practice of therapeutic abortions.

Perhaps it is time to examine the present "abortion law" to see how it works in Hong Kong. Reference to this can be found in the Hong Kong Ordinance, Cap. 212, 1964 Ed. under the caption "Offences against the Person", which states:

"ATTEMPTS TO PROCURE ABORTION.

46. Any woman, being with child, who, with intent to procure her own miscarriage, unlawfully administers to herself any poison or other noxious thing, or unlawfully used any instrument or other means whatsoever with the like intent, and any person who, with intent to procure the miscarriage of any woman, whether she is or is not with child, unlawfully administers or causes to be taken by her any poison or other noxious thing, or unlawfully uses any instrument or other means whatsoever with the like intent, shall be guilty of felony, and shall be liable to imprisonment for life.

(Amended, 30 of 1911, ss. 2, 4 and 5)

47. Any person who unlawfully supplies or procures any poison or other noxious thing or any instrument or thing whatsoever, knowing that the same is intended to be unlawfully used or employed with intent to procure the miscarriage of any woman, whether she is or is not with child, shall be guilty of a misdemeanor, and shall be liable to imprisonmnt for three years.

(Amended, 30 of 1911, ss. 2 and 5)"

It has been inferred, fom the use of the word "unlawfully" in the above two sections that termination of pregnancy can, under certain circumstances, be lawful. This is when the life of the pregnant woman is threatened by the pregnancy. However, a court of law may give a

different interpretation of its meaning.

On 26th September, 1956, Dr. Leung Hon Man was charged under Section 46 of the Offences against the Person Ordinance with using an instrument with intent to procure miscarriage (Hong Kong Law Reports 1956). The accused did not deny using the instrument but pleaded that, at the time he did so, he believed that the foetus was dead. He was acquitted even though the pathologist showed that the foetus had antepartum injuries.

It seems, therefore, that induced abortion in cases where the foetus is dead, is not unlaw-There is no law, however, to protect a case where the foetus is alive but where the mother's health is endangered by the continuation of the pregnancy. The present "Hong Kong law" is, in fact, similar to that covered by Offences against the Person Act of 1861 in the United Kingdom, which did not recognize therapeutic abortion. It implies that every case of induced abortion, no matter how genuine it may be, is liable to prosecution if the court of law chooses to do so.

In 1936 Mr. Aleck Bourne, after terminating the pregnancy of a young girl who had been raped, was charged under the act. He claimed that continued pregnancy would have been detrimental to the patient's future mental and physical health and was acquitted after standing trial in the Old Bailey. Since then, this case law had been referred to as something like a judicial permit for therapeutic abortions. With the introduction of the abortion law in the United Kingdom in 1967, this case law can presumably be no longer valid in Hong Kong.

The concept of terminating pregnancy to prevent the death of the mother or to preserve her health is not new. Soranus (2nd Century A.D.) stated: "The fruit of conception is not to be destroyed at will because of adultery or of case for beauty, but it is to be destroyed to avert danger appending to birth, if the womb be small and cannot subserve perfection of the fruit, or if it has hard swellings and cracks at its mouth. or if a similar condition prevails."

During the late 4th Century A.D. Priscianus wrote: "Only where the uterus is diseased or where the mother is exposed for other reasons to danger through pregnancy, is an abortion permissible . . . just as it is sometimes of advantage to remove the dry twigs of a tree in order to save the whole tree or as a heavily laden ship may find it necessary in a storm to throw overboard some of its cargo in order to prevent a ship wreck."

The current attitudes towards abortion are of recent origin. They first arose when the Christians accepted the tenets of the ancient Hebrew teachers who permitted abortion only when pregnancy threatened the life of the mo-The present adamant stand of the Catholic church authorities against abortion for any reason took sometime to develop, for there was no proscription against abortion by the early church leaders in Rome. The beliefs of most Protestant sects are more liberal but the church would not like an amendment of the Act to make abortion a mere matter of choice. They favour some liberalization of the law on abortion so long as the purpose of such liberalization is to preserve the health and well-being of the mother.

The indications of 20 years ago were simple; they were purely organic and were usually confined to advanced cardiovascular and renal disease, tuberculosis and similar conditions. Termination was not often considered if it seemed likely that the patient would survive the pregnancy, even though the mother had to remain in bed in the hospital for the entire period and was expected to die a few months after delivery. Abortions for psychologic reasons and those to prevent birth of abnormal children were rarely considered.

In present day medical practice, conditions posing a threat to the life of pregnant women have been greatly reduced as a reseult of the advances in medical knowledge in recent years. Many serious diseases are being prevented and others such as diabetes can now be treated effectively. Serious organic heart diseases occur less often now and many acquired and congenital cardiac defects can be corrected surgically.

Fewer women develop pyelonephritis there are potent antibiotics with which to tree infections. Even tuberculosis can now be effectively controlled. Thus, therapeutic abortion are less frequently performed for these lesions

About the only therapeutic abortions per formed in the interest of the infant before 195 were those for lethal hereditary conditions who an abnormal infant could be anticipated in eat pregnancy. However, they were rarely and luctantly performed.

In 1941 Cregg reported a high incidence congenital anomalies, mostly involving the eynheart, brain and hearing in children whomothers had had rubella during pregnane. Subsequent prospective studies indicated that a risk is about 20 per cent.

Some physicians, making reference to the figure of 20 per cent, have asked "Shall destroy 80 normal embryos to prevent the bit of 20 affected infants, particularly when card defects can be corrected and when so many be people get along so well?" Others, however argue that such pregnancies should not be lowed to continue even though a certain perc tage of the embryos will be unaffected. It no be remembered that the miseries and suffering resulting from congenital anomalies are confined only to the affected children but h to be borne by the family as well as the ca munity. A few decades ago, terminating a pur nancy was rarely undertaken even thought. meant giving birth to an abnormal child. W. formed and mentally incompetent children w cared for within the family group and did impose the enormous economic, social, and en tional drain on the family members that such individual now does. In addition, while an normal child in the home creates problems the family members, its siblings pose & The financial obligat greater problems. necessary to provide adequate care for such abnormal child will make it difficult for the at age family to provide long-term educational: port for the other children. As a result, t children may be inadequately equipped to vive the competition of our demanding societi

Mumps is suspect of an abnormal for Certain drugs, such as thalidamide, methotres and other antimetabolites may disrupt embergenesis. Therapeutic abortion should be may available, if requested, for such women as may give birth to a deformed child.

The opponents to induced abortion prout that it carries a high incidence of competions including death. However, these concations are certainly very much higher whenevermination of pregnancies is carried out by

artionists than by experienced gynaecologists

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In the United States, as many as one-third he maternal deaths in some states and two-t ds or more of those in large cities are the lt of illegal abortions. In fact, these figures not reveal the true picture because an unwin number of deaths following abortion are noted as being from other causes. The reson Confidential Enquiries into Maternal this in England and Wales (1964-1966) relisthat 98 out of 133 abortion deaths were sified as due to illegal interference of the gnancies.

In Hong Kong, the analysis of abortion and ternal mortality rates (Table I) in the past z years show that the average abortion morty rate was higher than that of the average ternal mortality and in some years (1960, 31 and 1964) it was two to three times higher. the cases of abortion admitted to the Queen bry Hospital from 1961-1969 the incidence of Out of nolications was alarmingly high. 49 cases admitted under the care of the naecological unit there were four deaths giving mortality rate of 0.67 per 1,000. For comrison in the corresponding period, there were deaths due to obstetrical complications out 58,761 delivered at the Tsan Yuk Hospital

giving a mortality rate of 0.10 per 1,000. Clearly the mortality rate was almost seven times higher in the cases of abortion. Apart from the deaths there were also other complications. The previous analysis (Braga, 1963) of emergency abortion cases admitted to the Queen Mary Hospital show that the morbidity rate was 59.9 per cent and the present analysis reveal that it is 40.5 per cent with 7 per cent suffering from serious complications such as severe blood loss, anuria, perforation of uterus and fulminating infection. Three of the cases are illustrated below to show the seriousness of the complications encountered:—

Case 1 was a 26 year old multiparous woman separated from her husband. She was seven weeks pregnant when an abortionist inserted a "rubber tube into her vagina". She suffered from chills and fever with a temperature of 106°F. On examination, general peritonitis with a pelvic absess was found. At laparotomy, both the uterus and the descending colon were found to be perforated and there was an abscess on the right side of the uterus. The colon was repaired and the uterus with the abscess removed. With intense antibiotic therapy she made a complete recovery. Fig. 1 demonstrates the perforation in the uterus leading to the abscess cavity.



igure 1 Stick showing terine perforation and oscess cavity.

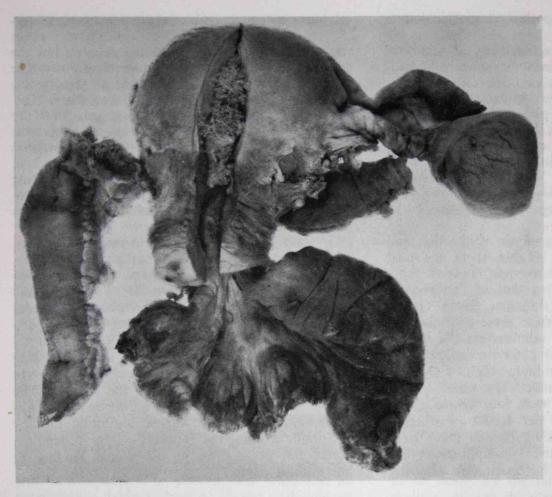


Figure 2 Uterus showing chorionic villi, perforation and prolapsed bowel.

Case 2 was a 43 year old multiparous woman complaining of abdominal pain and protrusion of a mass per vaginam. On examination, the protruded mass was a loop of bowel coming down through a perforation in the uterus. A hysterectomy and resection of bowel were performed. With intense antibiotic therapy she fully recovered after a stormy convalescence. Fig. 2 shows the perforated uterus and a loop

of the prolapsed bowel.

Case 3 was a 23 year old woman complaining of abdominal pain and vaginal bleeding a few hours before admission. On examination, she was found to be in endotoxin shock which was promptly treated with antibiotics, blood transfusion and fluid replacement under central venous pressure monitoring. An X-ray of the abdomen revealed gas bubbles in the pregnant uterus indicating gas gangrene which was confirmed at laparotomy (Fig. 3). A total hysterectomy was performed to remove the gangrenous uterus, partially necrotic placenta and dead foetus (Fig. 4). The patient recovered after six weeks' hospitalization but two years later, she developed severe psychosis due to the loss of the reproductive function.

Thus, in each of the above three cases, even though powerful antibiotics, blood transfusion

and fluid replacement were administered, it was still absolutely essential to remove the necrotical uterus in order to save the patients' lives. The loss of the uterus i.e., the organ of reproduction, is the greatest tragedy that can befall upon a young woman. As a result of the psychological trauma, Case 3 developed sever psychosis.



Figure 3 Gangrenous pregnant uterus seen an laparotomy.

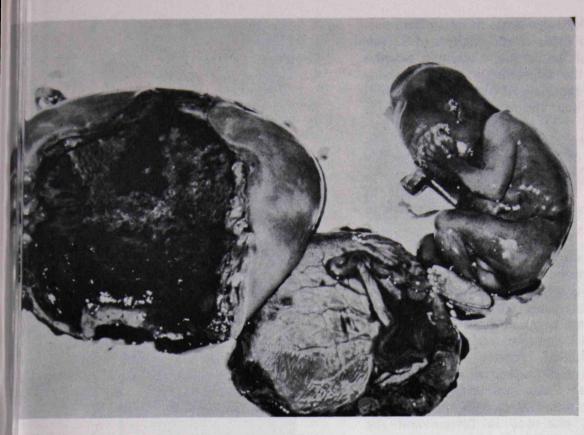


Figure 4 Necrotic uterus, placenta and dead foetus.

Because women do not always disclose the urrence and circumstances, it is impossible have accurate information about the proporn of criminal abortions out of the total of 49 cases admitted to the Queen Mary Hosal. Judging from the high morbidity rate it be deduced that many of the cases were Women take their secrets to gally induced. graves. We witnessed a case of post-mortem formed by the late Professor P. C. Hou. Bee her death this woman had repeatedly denied erference with the pregnancy, and yet, at the st-mortem Professor Hou found a piece of od in the peritoneal cavity where he also and massive gangrene of the pelvic and abminal organs.

In countries where there is a liberal aborin law the mortality rates as well as serious
implications are low. In the eastern European
untries and Japan, the mortality rate for legal
well as illegal abortions was 0.06 per 1,000
0.09 in the 1950s. In the recent years the
ortality has dropped to 0.01 to 0.04 per 1,000
legal abortions which is lower than the lowest
aternal mortality of 0.05 per 1,000 recorded in
world today. Other complications are also
responding lower (Tietze, 1969).

The complications of induced abortions are ine, in most instances, to the use of unsterile struments and dangerous techniques by lay cortionists. The instruments used by them are ther for penetrating or injecting. The former

include Crochet hooks, knitting needles, bicycle spokes, pencils, pieces of wood and rubber tubes. Of the injecting instruments, the Higginson's syringe is by far the most popular. The nozzle or an adaptor is inserted into the cervical canal and fluid consisting usually of soap solution, with or without an antiseptic is forcefully pumped into the uterus. The most common causes of death under these circumstances are infection and haemorrhage. Other causes are anuria and embolism.

Induced abortions carried out by the unskilled medical practitioner are also fraught with danger, even though he may use accepted therapeutic procedures. Dilatation and curettage resulting in perforation of the uterus, haemorrhage and even the removal of coils of intestine through the cervix account for many deaths. Uterine pastes have also caused death in unskilled hands.

The position is quite different when the therapeutic procedures are carried out by experienced gynaecologists in hospitals with modern facilities. Both the morbidity and mortality rates are low as shown in Table II (Jurukoviski, 1969) and are far less than those associated with childbirths. This Table also shows the incidence of complications in relation to the methods used. There were two deaths out of 7,833 abortions terminated by the classic technique i.e. dilatation and evacuation and no deaths in 10,925 by the suction method and saline induction. The mor-

bidity is lowest (3.90 per cent) in cases terminated by the suction method and highest (4.82 per cent) by the classic technique. Vacuum evacuation is therefore the safest method for terminating pregnancy in experienced hands but it should only be used when the gestational period is within 12 weeks. In the United States comparable results are shown in Table III (Cushner, 1970). Out of 385 cases terminated by this method in the Johns Hopkins Hospital there was no morbidity or mortality and in the state of Maryland the morbidity rate was 0.5 per cent in 435 cases.

In our unit, 13 cases of therapeutic abortions were performed in the last ten years and there were no complications. In cases under 12 weeks gestation the suction method or dilatation and curettage was used, while hysterotomy or saline injection was used in those with a gestational period of 12 or more weeks. One of the pregnancies terminated recently was for a patient four feet tall with marked thoracic kyphosis (Fig. 5). She was three months pregnant and her vital capacity was 600 c.c. Of the two physicians consulted, one was in favour and the other against therapeutic abortion. We terminated the pregnancy because we felt that with usch a limited vital capacity and severe thoracic deformity the continuation of pregnancy could be disastrous. The method chosen in this case was hysterotomy, as at the same time she requested permanent sterilization by tubal ligation.

The present techniques for the operation, when it is performed by a competent gynaecologist are so safe that the risk to life is well below the risk of childbirth itself. For this reason, an abortion law with an aim to eliminate criminal abortions was introduced in the United Kingdom in 1967. In America, this law has been enforced in some of the States for many years and a few more have adopted it recently. Singapore and some cities in Australia have also introduced this law. The indications vary from medical conditions to the control of population.

In Hong Kong, there is a wide-spread concern over the plight of women whose mental or physical health is endangered by pregnancy or where there is a serious risk of the birth of a deformed child or where pregnancy is the result of a sexual offence. These are indications for terminating pregnancies that many people would like to see recognized by statutory law so that doctors would, with a clear conscience, be free to recommend and carry out therapeutic abortions.

It is inadvisable or would even be harmful to introduce abortion merely for socio-economic



Figure 5 Marked Thoracic Kyphosis.

reasons. The unwanted pregnancies should have occurred. Here is a field in which I ventive medicine has an important place. I one in which educational and social worl have a reasonable part to play. In a series 12,351 therapeutic abortions analyzed by Le (1969) 47 per cent were performed on six women, eight per cent on widowed, divorced separated women and the remaining 45 per of on married women. The abortions could have been carried out on medical grounds, they were more frequently performed on won without husbands rather than those with H bands and especially as far more of the la group become pregnant. When pregnancies terminated freely for indications not stri medical, it encourages promiscuous sexual lations leading to the decline of morals in

Besides, the women concerned tend to concive again quickly. In a series studied in Japat 20 per cent requested another abortion with 6 months and 50 per cent within 12 to 18 nonths. In Sweden 38 per cent and in Conslovakia 50 per cent of women whose preparates were terminated had a second unated pregnancy within two to four years (Lidized Abortion, 1966).

For the control of family size and populainduced abortions are very effective. Birth have generally declined in countries in when it has been legalized. In the eastern Eurpean countries with liberal abortion laws by pirth rates dropped by 40 per cent during the decade or so following liberation. Stit Union, the decline was about 15 per cent in Japan about one-half (Tietze, 1965). Herever, without relying on induced abortions, birth rates in Hong Kong had dropped from 20 per 1,000 in the past decade. Family ning programmes carried out in the Colony done much to achieve these results. It must emembered that all contraceptive methods afe whereas therapeutic abortions even when ed out under the most ideal conditions are without risk. For those who have had their ed number of children, one means of preng the unwanted pregnancies is to sterilize r the female or the male partner. There are r ethical objections and complications to operations than those arising from teration of pregnancies.

osis.

nould hich p e. WORK series by Lei n sing orced per d ould unds, WOD ith h le la cies strid ual in

Finally, the long-term psychological reaction to abortions should be considered. A fol-(Willson, 1967) study reveals patients who have been least affected by abortions are those whose pregnancies were terminated because of a fear of the birth of a deformed Most of them became pregnant again soon after the abortion and have had one or more children. They accepted the abortion as a welcome solution to a temporary but serious Others, whose abortions were performed because of physical or mental conditions have had more trouble. They were well aware that their pregnancies were terminated because the birth of their children would be dangerous to their welfare. Many have been advised against future pregnancies and some with irreversible defects have been sterilized. They are likely to feel that they are different from normal women who can conceive and can carry a pregnancy successfully even though they do not choose to.

If the indication is flimsy and fleeting it is more likely that the patient may suffer a sense of guilt for the rest of her life. The incidence of serious permanent psychological sequelae is variously reported as being between 9 and 59 per cent. Therefore, in deciding whether the induction of an abortion is justified, the person performing the operation has to make sure that the risk of allowing the pregnancy to continue is, for that particular patient, greater than the danger of terminating it.

Table I

Maternal and abortion mortality rates (Hong Kong)

ear								Maternal mortality rate (excluding death due to abortion) per 1000 births	
960	 			1.0				0.70	1.45
961	 	176	1.3					0.44	1.08
962						M		 0.41	0.68
963	 							 0.45	0.22
964	 	199.0						0.28	1.17
965	 			1.1.3				0.33	0.25
966	 							0.32	0.45
1967								 0.39	0.18
968			0	rne.	1.11	. ,	4	0.28	0.17
≅rage	 							 0.40	0.63

Table II

Morbidity and mortality following legal abortions (1965-68)

(Jurukovski 1969)

Abortions performed			Total Number	Mor No.	Mortality No. %			
Classic technique	 	 	 	7,833	377	4.82	2	0.02
Suction method	 	 	 	10,586	413	3.90		_
Saline induction	 	 	 	339	15	4.42	_	-
Total	 	 	 	18,758	805	4.29	2	0.01

Table III
Incidence of Morbidity following Legal Abortions
(Cushner 1970)

						Maryland		Johns Hopkins		
Method						Number	Morbidity per cent	Number	Morbidity per cent	
Vacuum aspiration						 	2/435	0.5	0/385	0.0
D & C						 	12/580	2.1	0/83	0.0
Saline injection						 	25/888	2.8	14/617	2.3
Hysterotomy						 	34/139	24.5	22/60	36.7
Hysterectomy						 	5/92	5.4	14/60	23.3

Stroke indicates combination with one other method.

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true true microdose microdose oestrogen progestogen 0.05 mg. 0.25 mg.

neogynon

the new oral contraceptive distinguished by microdoses of both constituents



Schering AG Berlin/Bergkamen

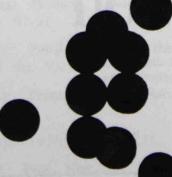
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COMPARISON BETWEEN THE EMPLOYMENT OF "GENERAL" AND "LOCAL" ANAESTHESIA

X. LETT
M.D., F.F.A.R.C.S. (Eng. & Ire., D.A.

The objective of anaesthesia is to enable surgical operations (and investigations) to be carried to be from pain and in a safe manner. The painful stimuli from the area of operation travel along the sensory pathways and reach the sensory cortex, where they give rise to a very unpleasant and of even unbearable sensation called pain.

We have, at present, several ways by which to prevent this pain due to surgical procedures:—

- (a) By the use of "General Anaesthesia", the central nervous system (C.N.S.) will be depressed so that consciousness is lost and pain not appreciated. Any number of drugs (Narcotics) such as diethyl ether, Halothane, Methoxyflurane, Fluroxene, nitrous oxide. trichlorethylene, chloroform and others, are capable of producing general anaesthesia.
- (b) By the use of "Local Analgesic drugs" injected around nerves from the operation field conduction of stimuli along these nerves will be interrupted and thereby pain prevented from travelling along the nerves towards the C.N.S. As a modification of this method and for operation on mucous membranes, a local analgesic drug can be applied to the surface of the membrane (Topical).
- (c) There are in addition modifications of general anaesthesia known as
 - i) Neurolept anaesthesia (by drugs such as Haloperidol)
 - ii) Dissociation anaesthesia (by drugs such as Ketamine or "Ketalar".

In these methods full unconsciousness does not have to be produced, but in neurolept gesia, a powerful analgesic such as 'Fentanyl' has to be added, while "Ketalar" has sufficient gesic proporties of its own to be used alone for certain surgical procedures.

Surgical interventions require, however, not only anaesthesia or analgesia, but also in addition mous amount of depression of reflexes (or muscular relaxation). This could, theoretically, be eved by general anaesthetic drugs alone. However, the dosages required would have to be so as to assume toxic proportions. Consequently, when general anaesthesia is used for surgical edures needing more than a mild degree of muscular relaxation — a group of drugs called scle Relaxants" are used in addition to G.A. These substances can be divided into "Depolarising" amethonium decamethonium) and "non-depolarising" (d-tubocurare, Gallamine, diallyl nortoxie, pancuronium). As these muscle relaxant drugs cause indiscriminate paralysis of all the ted muscles including the respiratory ones, artificial respiration (or intermittent positive pressure iration — I.P.P.R.) has to be taken over by the anaesthetist, usually through a cuffed endotracheal

On the other hand, by employing local anaesthetic drugs (such as lignocaine, prilocaine, hocaine and others) around nerves or groups of nerves not only sensory but also motor contion can be abolished and muscular relaxation achieved. Appropriate examples are Epidural (or adural) analgesia, subarachnoid block (spinal analgesia) Brachial Plexus block and others. When a mixed block has been successfully achieved, there is no pain sensation from the surgical field consequently, the patient may remain conscious.

s of General Anaesthesia

The production of unconsciousness (including general anaesthesia) is, however, not without to the patient. The protective reflexes are obtunded (depressed) and the the airway may be

jeopardised.* Vomiting or regurgitation of acid gastric contents presents a special problem. Inhalation of even small amounts of highly acid gastric contents can lead to bronchospasm, cyanosis and cardiovascular collapse. (This was described by Mandelson and is called "Mendelson's syndrome") Larger quantities of gastric contents and/or other foreign materials inhaled by the patient may lead to either immediate respiratory obstruction (and anoxia, death if not corrected quickly) or less dramatic pathological changes such as pneumonia (lobar or broncho), atelectasis or abscess formation. In any case, it is imperative that in the care of the unconscious patients, the most important aspects are

- i) the provision and maintenance of a free airway,
- ii) continued respiration (either by the patient or by artificial means) and
- iii) sufficient oxygen in whatever the patient is breathing.

Meticulous attention to all the details associated with the patient's respiration and other vital aspects are the groundstones on which proper patient care of unconscious patients and those under G.A. are based. Failure on the part of the attendant to spot and correct speedily any deviations from this rule may have disastrous consequences. There are, in addition, other dangers of major or minor significance.

Risks of Local Analgesia

Local and regional analgesia for surgical procedures, although it may interfere less with the patient's airway and respiration is also not entirely free from risks or danger. Local analgesic drugs by themselves may have toxic effects on the cardiovascular or central nervous system or both and also alergic reactions. The particular anaesthetic procedures may lead to complications, e.g.

Spinal — arachnoiditis, paraplegia, headache, blood pressure drop (due to sympathetic block), respiratory paralysis (due to "total spinal"), injury to cord, injury to intervertebral discs. Epidural — similar to spinal, but less headache. On the other hand abscess formation, anterior spinal artery syndrome and broken catheters are among many complications reported. Brachial Plexus Block — intra-arterial injection, puncturing pleura and lungs and others.

It can therefore be seen that, like in all other spheres of human endeavour and activities, in anaesthesia there will be danger and complications also. Our solemn duty towards the patient is, by our actions, skill and knowledge to reduce all risks to an absolute minimum. This can only be achieved by living up to the exhortation by Dr. J. Alfred Lee who enjoins us "never cause any harm to the patient" and "Eternal vigilance is the price of Safety".

I am grateful to the Hon. Director of Medical & Health Services, Hong Kong for his kind permission to publish this paper.

^{*} The tongue may drop back against the pharyngeal wall causing respiratory difficulty and/

First Prize Essay

The Medical Defence Union Essay Competition

1971

THE RIGHTS OF THE PATIENT AND THE RIGHTS OF THE DOCTOR

Jonathan Chick Edinburgh University

The Rights of a Doctor

As well as his relationship with his patients, a doctor also has a relationship with the state. Certain legal and moral claims arise out of both these relationships. There seem to be two main rights which derive from the doctor's contract with the state:

The Doctor's Relationship with the State

The doctor must pass certain examinations before being allowed to practise medicine. Once he is granted the right to practise and accepts explicitly or implicitly the ethics of his profession, the state undertakes to guarantee his rights as a physician.

The first, which is guaranteed by statute, is the right to protection from unauthorised practitioners. The Medical Act 1956 enables the public to distinguish between qualified and unqualified practitioners by prescribing penalties for the unlawful use of certain recognised titles such as doctor of medicine.

The second right the state guarantees the doctor is protection from improper interference, direct or indirect, either with his right to practise or with his professional relationship with his patients. At times, however, the state itself interferes with the doctor's professional relationship, for example, when a court orders a doctor to divulge in public details confided to him in his surgery and which the patient does not wish to be disclosed. Three years ago, the Law Reform Committee "did not consider that doctors should be given the statutory right to refuse to answer in civil proceedings questions which might violate the Hippocratic Oath"(1). Some years earlier, Lord Dawson had

ished with kind permission the author and the Medical ence Union, London,

lamented lawyers' tendencies "to think that the vindication of the Law is always the supreme interest of the state", whereas, "in reality, occasions occur on which other considerations properly overide those of the Law"(2).

The Doctor's Relationship with his Patient

When the doctor accepts a patient he agrees to furnish professional services and to use diligence and skill in effecting a cure. This duty of care is generally held to be independent of the existence of a contract, the law of torts stating that

"one who enters on the doing of anything attended with risk to the persons or property of others is held answerable for the use of a certain measure of caution to guard against that risk" (3).

However, unless there is "indolence or carelessness" or "gross ignorance and unskillfulness" (4) the doctor is not held responsible for unforeseen outcomes of his efforts to cure his patients. He pledges the use of his knowledge and skill but does not guarantee a cure. Thus, he has the right to "immunity from responsibility for equal consequences".

In general in Britain a doctor legally has the right to refuse to examine, treat or aid a stranger, whether in an emergency such as a road accident or elsewhere(5). This is not the case for a general practitioner working under the National Health Service. He is "under an obligation to visit a person in an emergency even though that person is not registered either with himself or one of his partners, provided that the person's own doctor or deputy is not available"(6). Similarly, the Health Service general practitioner does not have the right to refuse to take on his list a patient allotted by his Executive Council if that patient has been unable to gain acceptance from another doctor in the area

In France a greater degree of public responsibility is expected of the doctor. Under the Code de Déontologie it is the doctor's duty to render assistance to any person in an emergency on pain of a prison sentence or a heavy fine(7).

The doctor has the right to withdraw from a case if he wishes, but only providing he makes other arrangements for the care of the patient and his withdrawal does not adversely affect the patient's health and well-being(8).

As spelled out in the "conscience clause" of the 1967 Abortion Act, a doctor has the right

to refuse to participate in treatment which is objects to on grounds of conscience. But if is a general practitioner he apparently is not entitled to refuse to refer a patient seeking a termination. He "must fulfill his obligation to provide treatment for any patient on his National Health Service list and to refer her to he pital if necessary; alternatively, he may arrange for a competent deputy to take responsibility for the patient" (9).

The Rights of a Patient

The moral claims that patients have in the doctor-patient relationship will now be discussed

The Right to Secrecy

The patient's right to expect that personal details given to his doctor will be regarded a confidential has already been touched on. It's fundamental to the therapeutic relationship that patients should not feel inhibited in talking to their doctor or revealing symptoms. Though on occasions the Law may override the right to secrecy, it has not been slow in condemnine doctors who allow persons other than official bodies access to professional secrets. Kitson v. Playfair libel case, £12,000 was awarded against a doctor who discussed with relatives the adventures of his sister-in-law whom he had attended for an alleged abortion during the lengthy absence abroad of her husband. As Simpson has commented, "whatever the prepriety of his feelings, (he) paid heavily for nd observing the strict professional secrecy his six ter-in-law had a right to expect from him"(10)

The Right to Protection from Negligent Treatment

A patient may also anticipate the Laws support where his doctor has failed to exercise the degree of skill and care that is reasonable demanded by the circumstances, i.e. where the doctor's conduct has been negligent.

If, as some say, patients experience excessive difficulty in establishing claims of negligence then there is a risk that this important right make in practice be undermined. This was the vice expressed by the consultant surgeon who wrote to the Observer in November 1969 following article describing a father's vain attempt to stigate an investigation into the circumstances this son's death(11). An anaesthetist had father to attach correctly the oxygen inlet to a ventiled ing machine and did not notice his mistake.

e letter read:

"Whenever it is possible to do so, liability is denied . . . Often, a patient attempts to obtain justice in the law courts. He finds, to his cost, that in order to establish his claim he needs powerful medical testimony. This is practically never forthcoming, and even if he gets such support he will only too likely find his 'expert' confronted by one equally eminent who will solemnly swear that the tragedy in question, though rare, and much deprecated by all concerned, is nevertheless a recognised risk."

the 1880's, when the medical profession beg to organise itself in order to protect its medical from slander and litigation, it appears that tacks on medical practitioners were increase in number . . . and many prosecutions, or tats of them, were animated by malice or bas on frivolous pretexts"(12). Solidarity within the ofession and financial support to those with leg expenses, though enthusiastic, was until the ntirely ad hoc.

doctor, the right to immunity from respondity for equal consequences. It seems a pod e risk that in organising itself to exercise the ght the profession may become too powers.

t seems probable that, as a reply to the wer pointed out(13), the letter overestimate the extent to which this risk had become the ... The reply denied that all allegations of the succeeded concerned errors "too outrage-of the defend". Nevertheless, the founding of the interior and the proposals for a seal Ombudsman indicate that the public mely fear that the profession may become allable.

Right to Refuse Treatment

The intentional interference with another multiple without legal justification amounts to as-As a legal principle in medicine, this been summed up as follows:

Every human being of adult years and sound mind has a right to determine what hall be done with his own body, and a surgeon who performs an operation without the patient's consent commits an assault for which he is liable in damages.

This is true except in cases of emergency where the patient is unconscious and where it is necessary to operate before consent can be obtained"(14).

In particular, patients with religious beliefs concerning certain therapies are entitled to respect for their beliefs. The doctor is not justified in transfusing a member of the Jehovah Witnesses or the child of a member without first obtaining consent, though in cases where a child's life is at stake and where attempts have been made to persuade the parents, a blood transfusion without parental consent would probably be held to be justifiable(15).

The Rights of Psychiatric Patients

It has been held by some that man's most fundamental right is the right to freedom from interference, implying that no one should be coerced, even for his own good.

The insane and the subnormal are persons to whom this principle is not applied. Therefore there exist, in this country at least, certain safeguards to protect the remaining rights which these persons possess and to protect "normal" people from being deprived of their rights by being classed as subnormal or psychiatrically ill.

The Mental Health Act 1959 and Mental Health (Scotland) Act 1960 lay down a mechanism via which patients compulsorily admitted to hospital or their relatives may appeal against their detention. Provision is also made for protecting patients' property and in Scotland, an independent body. The Mental Welfare Commission investigates allegations of ill treatment and deficiencies in care and treatment in psychiatric hospitals.

The Right to be Told

Sometimes actions for negligence are brought against doctors because they have failed to disclose some matter to the patient or failed to give sufficient explanation to him of his condition or of the advantages and disadvantages of alternative forms of treatment.

Lord Nathan has presented a series of such cases and concludes that, from the legal point of view, when a patient does not wish to place himself unreservedly in the hands of his doctors he has a right to have his questions answered fully and accurately. In certain circumstances, however, the doctor appears to be entitled to withhold information or even give

false answers provided that he is "acting genuinely in the interests of the patient as he sees them" (16).

A frequent dilemma is in deciding whether to tell a patient with a fatal condition the nature of his disease. Most doctors bear in mind how far his patients needs to set business affairs in order. But it is usual for doctors, while not denying in principle that a person has a right to be told if he is dying, to argue that for all but a small minority of "stable" individuals, it is seldom best for the mental state of the patient for him to be told the truth.

In fact, there seems to be no evidence apart from the anecdotal kind that patients either prefer not to be told or, except in the immediate moment of realisation, react in a distressed way to being told, providing that they are assured of comfort and support. It is ironical that when doctors or lay people are questioned both groups alike tend to state that if they had advanced cancer they would prefer to be told and yet recommend that others with similar conditions should not be told. However, it is now being documented that a sizeable majority of patients with advanced cancer in hospitals where it is the policy for patients to be told their diagnosis think that cancer patients should know the truth. As well as helping them to understand their illness and providing some peace of mind, the knowledge is said to help them plan their further medical care. their religious and their family life (17).

The defence organisations are unlikely to be faced with allegations against doctors who have withheld knowledge from the dying. Dying patients do not sue and in most situations the doctor 'covers' himself with respect to the relatives by informing them of the prognosis.

It is a man's final dignity to be able to face death with understanding and some serenity. This is hardly possible in an atmosphere of deception and simulation. Doctors experience anxiety in discussing dying with their patients and often feel ill-prepared to give emotional support to dying patients. It is tragic that their understandable limitations receive ratification from false assumptions and are reinforced by their early training in hospital. It may be that doctors do not have the **right** to withhold this knowledge from their patients.

The Right to Decide One's Own Death

There are situations in which the doctor must decide whether or not to comply with his

patient's expressed wish to die. This rechallenges the doctor's most fundamental to preserve life. In discussing the patient's rit seems important to raise some of the isn in suicide and in voluntary euthanasia.

For some doctors, including for example members of the Catholic faith, suicide is well because it violates the natural law. The mainder of the profession seem to rational their denial of the patient's right to commit suicide by a tautologous argument: no man in his right mind would wish to kill himself, therefore the suicidal person is mentally ill; if he is mentally ill his reasoning is not normal therefore the does not really want to commit suicide.

Of course, many suicidal persons shows symptoms of psychiatric illness or can be seen to be reacting to temporary external stress. But this is not to assert that **no** man has the right to decide to commit suicide.

There is also a social argument why an individual does not have the right to commissuicide, namely that the act is too disturbing and disrupting for society: it allows people to opt out of their responsibilities, it causes distress to the immediate social nexus the suicide leaves behind and it reminds that community of its failure to support its weaker members. However the does tor must not be over concerned with the requirements of society. His duty, according to his oal is to his patient. The dilemma is rather whether his obligation to preserve human life overrided the loyalty he owes to his patient as an individual. In general, it seems that doctors this it does.

Similar problems arise over whether an i dividual has the right to request euthanasia. It arguments are numerous, depend on metaph sical viewpoints and cannot be discussed in the space available. Legislation permitting voluntate euthanasia in Britain seems unlikely to be pasted, partly for religious reasons and partly it cause of the practical difficulties in ensural against abuse. However, for doctors, it is passibly less important to debate whether a sale man has the right to request euthanasia than a ponder why he should ever in fact feel in not of it. Hinton has reminded us:

"It seems a terrible indictment that the malargument for euthanasia is that many surfunduly because there is lack of preparate and provision for the total care of dying." (18)

The ght of the Doctor to Make Decisions **Death** abo

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seems appropriate that the final section essay should concern the ultimate conting of the relationship between doctor and the doctor's role in making decisions life and death. For centuries, obstetricians eir forebears have taken upon themselves the exision not to resuscitate deformed neonare Recently, however, new kinds of power ova: ae lives of patients have become available. in Licular with the advent of artificial means placing the functions of the vital organs. ating machines and haemodialysis are ne ineless in limited supply and although medical considerations play the largest n allocating facilities, value judgements to be made.

The confusing issues of resuscitation and ing off the machine" have drawn special on to the doctor's role in making decisions life and death. Emotive discussion of heart lantation has caused the public to lose some trust in doctors and to challenge their right zide, for example, that even though a perheart is functioning that person can be ed as dead if his brain is diagnosed to be 'ersibly damaged". Professor Calne in his n book seems to argue that doctors should strusted with these decisions on the grounds these decisions are analogous to others they in their allotted profession:

"When a surgeon advises a routine operaction, the patient trusts him to have made a correct decision and to operate skilfully to the best of his ability.

Exactly the same trust is involved in the care of the dying, diagnosis of death and organ removal"(19)

The analogy does not seem completely 1. For one thing, the patient who has underan operation can appeal if he feels his ment has been unethical, just as can the man has been sentenced, in his view unjustly, to imprisonment. However, the patient, and the oner, who have received a death sentence comparatively little time if any to demand econd hearing. It is worth noting that our pety, in deciding to abolish hanging, has udiated its right to decide whether an inidual should live or die.

This discussion seems far removed from practicalities. We may or may not hold that the doctor has the right to decide whether a patient should be offered, or continue to be supported by, certain expensive life-saving procedures. However, even if society sets up legal mechanisms and safeguards, the prime responsibility will in practice lie with doctors. Also, the public alarm over heart transplantation may have been less about whether doctors have the right to transfer a living heart from one body to another than about the motives of doctors involved in this work. If it is suspected that personal ambition, professional acclaim or other selfish motive have displaced the doctor's obligation to his code of ethics, his very right to practise medicine is in doubt. The right to be a doctor is forfeit whenever indifference towards a patient dislodges compassion.

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With the Compliments

of

Mrs. Chow Mo Ching



Message from the Chairman

It has been my greatest pleasure to write a few words in this issue of the Elixir to all the members of the Medical Society, serving as a channel to promote better understanding among us.

With the intake of 150 medical students this year the Society has been better equipped with manpower which must be directed towards fostering a spirit of comradeship and professional unity amongst our members.

I have always been objecting to the idea that the pressure of academic work is too heavy for medical students to participate in other activities. The actual problem is towards which field our extra effort must be devoted. The medical training we are receiving now better enables us to help in improving the local health situations. The health project last year was a sign to show that medical students were getting out of the ivory tower and were doing something beneficial to the community. This spirit that begins to emerge needs to be encouraged and it is towards this aim that the Society moves.

It is time for us as students to show our concern towards the community and our willingness to offer the best of our ability to serve the public. I would like to emphasize this: Let us try to make our 5-year stay in the university a memorable, worthwhile and meaningful one. Once gone, it will never return again,

Wan Ho Yue

January 1971



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HONG KONG UNIVERSITY MEDICAL SOCIETY

ANNUAL GENERAL REPORT-69-70

The session 1969-1970 of the Medical Society began on October 28, 1969 and ended on Nember 16, 1970. The following were the office-bearers:

Chairman Mr. Stephen Ng **General Secretary** : Mr. Ambrose Ng External Affairs Secretary: Mr. Wong Shou Pang Financial Secretary : Mr. Vincent Leung Miss Grace Tang Social Secretary

Sports Secretary : Mr. Wong Chun Chung

Internal Affairs Secretary: Mr. Andrew Ho

During the session, one Extraordinary General Meeting, 6 Council Meetings and 4 Emercv Council Meetings were held.

Broadly reviewing the traditional activities of the society, all were being carried out with the eption of two functions. The Medic Ball netted \$4000 plus to add to the Elixir Loan Fund. e Omega Rose Bowl was retained by the society. The Presidential Address, the Medic Nite and Medic Barbecue were all held with success. The Elixir and the Caduceus were published The launch picnic was cancelled owing to poor response. The interclass debate was celled because of low attendence last year.

New activities and developments were considerable. The most remarkable of these was the ension into the field of Community Health Care by the setting up of a Standing Committee on alth and the launching of a Blood Donation Publicity Week in conjunction with the HKFS. The distitution was revised at an Extraordinary General Meeting. A TV set was purchased by the society d installed in the Residential Common Room in Medical Students' Centre. The society also took on the Union Carnival and the 2nd University Open Day.

Despite these and other achievements, it must be stressed that newer ways and means must devised in order to deal with the various new problems that will likely arise with the expanding culty and the extending Medical Students' Centre.

The following is a summary of the events during the past year:

FUDENT WELFARE:

Faculty-Student Relationship: The Dean's Undergrad Committee continued to serve as an effective channel for students to discuss and to suggest solutions on problems concerning students' welfare. Students were represented in the Faculty Appeals Committee and the Medical Library Committee.

Elixir Loan Fund: This year \$8300 were loaned to 7 medical students.

\$1500 each to 3 students. \$1000 each to 3 students. \$ 800 to one student.

Canteen & Co-op:

The canteen contract was renewed. It offered food to students at the same price as before in spite of the generalised inflation in Hong Kong. The co-op were stocked with various items of stationary, society souvenirs for sale to the society members. The society also provided ties and car badges for sale to its members.

4. Medical Fraternity Committee:

The committee organised a series of activities with the aims of promoting the bend understanding of the freshmen on the society affairs and of providing help to them in the studies. Among the functions were a picnic, a sale of old books, skeletons and microscopes Under the Fraternity scheme, 3 to 4 first year students were assigned under the guidance of third or fourth year medical students.

SOCIAL ACTIVITIES:

- 1. Medic Barbecue: The BBQ was held on 8th December, 1969 in the University Sports Central It was attended by over 100 members and over 25 staff. The traditional singing competition highlighted the evening. The championship was won by the final year class. The evening concluded in the presentation of souvenirs to the Past President-Professor Gibson, Past Vice-Professor Gibson, Past Vice-Prof
- 2. Christmas Carolling: Two carollings were organised, one on 19th December, 1969 to Granthai Hospital and another on 23rd December, 1969 to Sandy Bay Children's Convalescent Home Donations were collected from the society members to buy gifts for the children.
- 3. Union Carnival: The medical society took part in the Carnival on 13th December, 1969. stall was set up in the fair in the University Sports Centre and the second prize was wo in decoration.
- 4. Medic-Arts Get-Together: The social gathering was held in January 1970 in the Medic Students' Canteen. There was an overwhelming attendance by our society members.
- 5. Medic Ball: The annual ball was held on 6th June, 1970 in the Mandarin Hotel with all t profits going to the Elixir Loan Fund. Around 100 couples attended the function. A sum around \$4000 was netted for the Elixir Loan Fund.
- 6. Launch Picnic: The annual picnic sheduled on 18th September, 1970 was cancelled because poor response.
- 7. Medic Nite: The light drama competition was won by the final year class (70-71). Then spon awards were presented. Mr. York Chow was awarded the title Sportsman of the Year (69-74) Medical Society. The Braga Cup was presented to the 4th year class for the interclass championship.
- 8. 2nd University Open Day: The Medical Society participated in the Union Open Day November 7, 1970. The program consisted of a guided tour, an exhibition on Physiology, exhibition on Biochemistry and an exhibition on Medical students' life and the extension of the Medical Students' Centre.

SPORTS:

1. Interfaculty competition: The medical society again proved supreme in the field of sports retaining the Omega Rose Bowl — symbol of interfaculty championship. Out of 10 kinds games, our teams managed to secure 6 championships and one runners-up.

CHAMPIONS: Lacrosse, Lawn tennis, Squash, Badminton, Hockey and Softball.

RUNNERS-UP: Table-tennis.

2. Sports Awards (69-70): Our society members won many highest sports awards of the Universit

Sportsman of the year : Mr. James Hwang — 4th year.

Sportswoman of the year : Miss Therese Chan — 4th year.

University Colour (Badminton) : Mr. York Chow — 5th year.

University Colour (Lacrosse) : Mr. Wong Chun Kuen — Graduate Class '69-70.

3. Interclass Competition: After a series of matches in 9 kinds of Men's games and 3 kinds Women's games, 4th year emerged as the overall champion.

		II	III	IV	${f v}$
en:	Badminton:			2nd	1st
	Basketball:	1st	2nd		
	Lacrosse:		2nd	1st	
	Hockey:		2nd	1st	
	Soccer:		2nd	1st	
	Squash:			2nd	1st
	Table Tennis:	2nd		1st	
	Tug-of-War:			1st	2nd
	Volley:		1st		2nd
√omen:	Badminton:			1st	2nd
	Netball:	2nd		1st	
	Table Tennis:		2nd	1st	

AT DEMIC & CULTURAL ACTIVITIES:

•residential Address: Professor C.T. Huang delivered an address 'Pet, pest & pestilence — infections transmitted from dog to man' as President of the Society on May 28, 1970 in the ohysiology Lecture Theatre. Light refreshments and a group photo were taken before the address. At the occasion, souvenirs were presented to the staffs who were leaving the faculty soon.

Talk: A talk on Doctor-Patient Relationship was arranged by the Medical Fraternity Committee on January 30, 1970. The speakers were Professor Field, Dr. Todd and Dr. Paul Yue.

Debates: Three first year students represented the Medical Society in the interfaculty debate competition and managed to capture the Runners-up.

ERNAL RELATIONS:

Asian Regional Medical Students' Association:

- a) Close liaison was maintained by the External Affairs Secretary with the Association.
- b) Asian Students' Conference: Two of our members represented the ARMSA to observe at the Conference held in August, 1970 in Chung Chi College.
- x) The society decided to send one delegate and one observer to the 5th General Assembly which would be held in 1971 in Australia.

Visitors: In March, 1970, our society was visited by a delegation of students from University of Malaya.

In April, 1970, a group of Malaysian medical students visited Hong Kong and was sentertained by our society members.

ILICATIONS:

Elixir: 2 issues of the society magazine were published with all the proceeds going to the Elixir Loan Fund.

Visitors: In March, 1970, our society was visited by a delegation of students from the University practitioners and medical schools abroad.

4MUNITY HEALTH PROJECTS:

Standing Committee on Health: On May 6, 1970, a Health Officer and an Assistant Health Officer were elected to the Standing Committee on Health with the aim of promoting medical students' consciousness in society health problems.

Blood Donation Publicity Week: From May 9-13, 1970 in conjunction with the HKFS, a Blood Donation Publicity Week was held with the aims of improving the public's knowledge on blood and also blood donation. The program included an exhibition on the knowledge of blood, a poster competition, talks and film shows in various secondary schools and a TV talk on the knowledge of blood.

To conclude, the Hong Kong University Medical Society is very much indebted to Professor Huang, Dr. K.H. Lee, Dr. Paul Yue, Dr. L.K. Ding and the Dean of Faculty, Professor Fadzean for their kind support throughout the year.

vember 16, 1970.

Sd. Ambrose Ng General Secretary

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THE UNITERSITY ARMS

H. K. Ng

THI conception of a university in Hong Kong, modelled on a British university, to serve the awarening China of the early 20th Century had long been in the mind of Sir Frederick Lugard (lat) Lord Lugard of Abinger), Governor of Hong Kong, 1907-1912, whose handsome but somewhit austere-looking bust stands justly guarding the entrance hall of the University library. His visitary university was only brought a step nearer reality by the generous pecuniary donation of Mroater Sir Hormusjee) Mody. Even so, it took Lugard much negotiation to remove the obstacle had home. Finally, however, the Colonial Office consented to the idea; and the foundation stone of University of Hong Kong was laid on March, 16, 1910. The University Main Building was onted on March, 11, 1912. The University Arms were granted by Letters Patent on May, 13, 1913.

The Arms of the University of Hong Kong are probably more familiar to most undergreates than the history of the University; but few perhaps know little more than how they look. A I often hear the Arms of the University being erroneously spoken of as the badge or, less frequely, but just as wrongly, the crest of the University. While it would be impossible in an article of is nature to dwell at length in the distinction between arms and badge and crest, let it suffice to say that arms, badge and crest are three entirely different things. So the familiar badge of the university students is in fact the Arms of the University.

The Arms of the University of Hong Kong are blazoned: Per pale Vert and Azure an open proper bound and edged Or inscribed with Chinese characters Sable on a chief Gules a lion and guardant Or.¹ The above blazon is the official description given to the writer by College of Arms; this blazon also appears in a commemorative postcard issued by the University on the occasion of its Golden Jubilee in 1961.

The main component of the University Arms — as are all coats of arms — is the shield, which is of the so-called 'heater-shaped' variety. The shape of the shield is of little significance in all dry and is not specified in the blazon; it often varies according to the whim and taste of the incular heraldic artist. But this type of heater-shaped shield seems to be most popular, at least mg British heraldists, in the present century. On the shield are various devices which are the ortant part of the Arms. These devices are called charges in heraldry. An open book and a lion form the main charges of the University Arms.

The field of the shield on which the various charges appear is divided vertically into two es: green on the dexter² half; blue on the sinister³ (blazoned: Per pale Vert and Azure).

Books are often used to symbolize learning and knowledge. It is, thereonly natural to find books being used as **charges** in the arms of schools
universities. The Arms of Oxford University, which dates back to the
y fifteenth century, have an open book as the main **charge** (Azure been three open crowns Or an open book proper leathered Gules garnishand having on the dexter side seven seals Gold and inscribed with the
ds Dominus Illuminatio Mea). (fig. 2) A book also figures in the arms
the universities of Cambridge, London, Leeds and Liverpool,

Fig. 2 Arms of Oxford University

ollege of Arms Record: Gts LXXXII/164
Light side from the point of view of the bearer of the arms
Left side from the point of view of the bearer of the arms

and, probably, many others. The Arms of the University of Hong Kong is no exception. Placed centrally on the divided **field** of the University Arms is an open book, which is bound in gold, with its leaves also edged in gold (blazoned: bound and edged Or). Upon its open pages are inscribed in black four Chinese characters: **ming-te ke-wu** (明德格物) written in **li-shu** (隸書), which is a style of script in vogue during the Han Dynasty. The two characters **ming-te** (明德) used in the University Arms have often brought comment, being of somewhat unusual form. There is a number of variant forms in this style for the two characters; the forms used, according to the University authorities, are taken from some of the most highly-regarded Han inscriptions.

Fig. 3 Royal Arms of England





Fig. 4 Arms of Sir Frederick Treves

The four characters in the University Arms are a combination of two phrases from the Confucian classic **The Great Learning** (大學); they may be translated thus: **ming-te** — bright virtue sity **ke-wu** — the investigation of things. These two phrases come close in meaning to the Latin mottor in

Occupying the upper third of the shield is the red chief, which is what is known in heraldr as an ordinary, regarded also as a charge placed 'on' the shield. It is important to stress the wor' on' because in heraldry there is the so-called Rule of Tinctures which maintains that a colour (red, blue, green, purple and black) cannot be placed on a colour, nor a metal (gold or yellow silver or white) on a metal. Since the tinctures of the field of the University Arms are two colours viz. green and blue, and that of the chief also a colour, viz. red, obviously the Rule of Tincture is violated in this case. But why is the Rule deliverately violated? The answer perhaps can be sought from the lion on the chief.

Almost occupying the whole area of the red chief is a gold lion. The lion, unlike man heraldic animals — such as the unicorn, the phoenix, the griffin — which are mostly mythical, known in natural history. It is regarded as the king of animals and is known for its ferocity and prowess. Ever since the advent of heraldry the lion had been adopted as a regal symbol, befitting of only kings and queens. Today the lion is still to be found in the arms of the Royal Families of Great Britain, Norway, Denmark, Sweden and Belgium. The lion appearing in the University Arm is described as a lion passant guardant. A lion passant means a walking lion; it is by conventic walking toward the dexter side, with its right forepaw raised, and the tail curved over the back Guardant describes the position of its head and means 'with its face turned to face the front, that the spectator.' A gold lion in heraldry conventionally has its tongue and claws coloured red. By when a gold lion appears on a red field it is painted with blue tongue and claws (described, these as langued and armed Azure), as in the University Arms. Any other representations of a gold lice on a red field are, strictly speaking, incorrect.

But, what makes the gold lion of the University Arms interesting is that it happens to lie of a red chief. Such a lion passant guardant Or on a red field is what may be called a 'lion of England' since the English Royal Arms, first used by King Richard I in 1195 in his Second Great Second still retained in the first and fourth quarters of the present British Royal Arms, consist of three such lions (Gules three lions passant guardant in pale Or). (fig. 3) It is therefore tempting to suggest that the red chief with the gold lion in this case is meant to denote Royal patronage of the University of Hong Kong, of which Her Majesty is the Patron. That, besides, will also explain whe 'red' is used, in contravention of the Rule of Tinctures, as the colour of the chief. In fact, a liquid.

of longland in chief (that is, the same chief as that of the University Arms) was granted as an augmitation of honour (fig. 4) to Sir Frederick Treves, Bt., Surgeon to King Edward VII (and who
is remembered today for an operation named after him — Treves' operation), to signify the deep
plisure of the King. A red chief with a lion passant guardant Or also figures in the Arms of the
Coof Canterbury, alluding to its situation on what was once crown land. We have seen, then, that
a in passant guardant Or on a red chief is often used to symbolize a connexion with the crown or
the monarch. However, the College of Arms was unable to confirm this theory of the writer. But,
why has a lion passant guardant Or — of all charges — been chosen for the University Arms?
We not, say, a red lion on a gold chief? That would also leave the Rule of Tinctures unviolated.
Cold it be merely for aesthetical reasons that a chief of England was incidentally adopted in the
Liversity Arms? The exact reason probably will always remain unknown since the reason for
cooking the charges is not stated in the grant of Arms. But, then, one can always conjecture too!

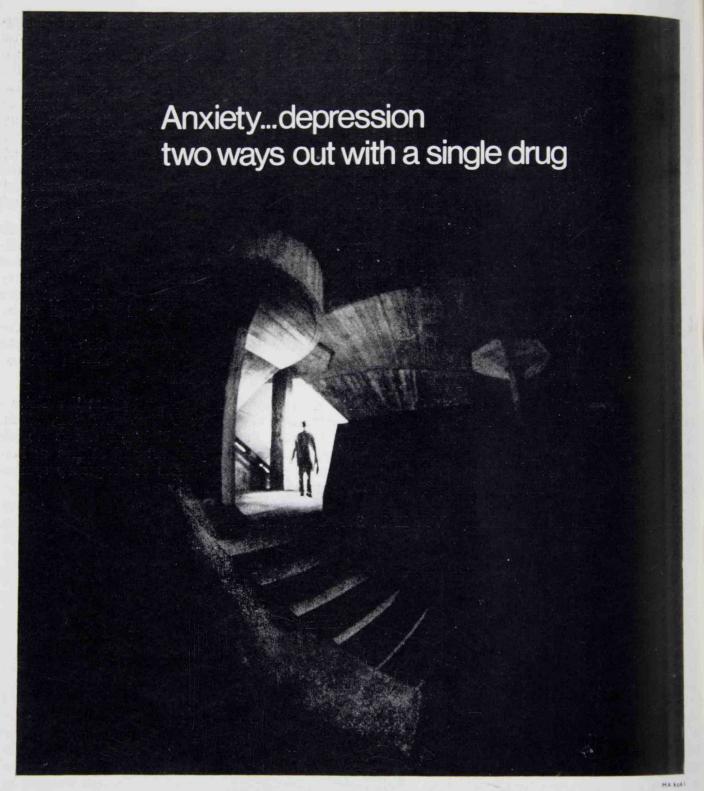
The motto of the University is: Sapientia et Virtus. It is borne on a scroll placed beneath the shield. Sapientia is the Latin for discernment and wisdom. Virtus is a distinctly Roman qualities which, like so many other Roman qualities such as constantia, gravitas, severitas etc., is not really translatable into English without suffering some diminution of its rich meaning. We may the virtus to embrace manhood, integrity, valour, courage, heroism and virtue. So, if I must make imple word-for-word translation of the University motto, I will, at the risk of being derided by knowledgeable, but it as: Wisdom and Virtue. It may interest the readers to know that the to originally used by the University was a much more ambitious and less introspective one: Light the Orient. A Latin version of somewhat similar aspiration — Lumen ex Oriente — in fact was das the motto of Lugard Hall prior to its amalgamation into the Old Halls.

To conclude this study of the University Arms it may be worth mentioning that the Univer-Arms probably created heraldic precedent by having as charges four Chinese characters, which, all likelihood, were unknown to European armory before. Thus in the University Arms we see art of Chinese calligraphy so harmoniously blended with the European art and science of herry. Perhaps nowhere else can one see the confluence of two great Cultures so eloquently symboded. It only remains for this University to live up to this aspiration.

Lugard: The Years of Authority, Vol. II P. 371, by M. F. Perham



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Death of A Dream

- Clement Ho

Somewhere last night in the wilderness of the city There was a funeral march down the road And I was there My crying was the muted music of the funeral band And my many shadows the long trail of bereavement the whole procession was me Something beautiful had gently passed away A dream of the highest order died a victim of circumstances And a scapegoat of a thousand wrongs I was the executioner Yes I pained so much As I walked it to its burial Grieve not for it's now dead be content for it once had lived After a flower withers A flower grows again when the next season comes So this beautiful dream of mine though now lost forever Will be conceived and be reborn in other forms Someday At this sorrowful moment of mourning in my life I only knew I must bear the hurt And through these misty eyes I'll look into the eternal depth of the ocean in the sky.







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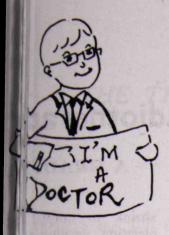
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A HOUSE OFFICER'S REFLECTION

by Nictor Goh

It is now some 4 months after we have received the good news of the MB BS Final results, most if not all of us are well settled in our newest venture, or shall I say adventure — that House Officer's post in a hospital. Did I say 'well' settled? Let me qualify it further.

Graduation found all of us jubilant at the completion of a milestone, the first major step nur career. We were of course very excited about the forthcoming experiences of being able to me some responsibility, be it big or small, on our own. Most of us were on our jobs well the 1st of July (whether this was wholly on account of enthusiasm is beside the point). Way Enthusiasm soon gave way to Frustration as we became caught up in the hustle and bustle he everyday ward routine — there were various different kinds of forms to be filled for sending estigation material to the laboratory. In those early days, wrong forms were inevitably used now again, and we had the 'pleasure' of receiving notification from the laboratory technicians of our take. Notifications were at least better than having the specimens sent back altogether. Then we were always the various 'unavoidable' mishaps involving specimen bottles on the way to the oratory, which testified strongly to the need for achieving close co-operation with all members the staff — it is surprising how a round of drinks satisfies not only thirst but a lot of other ags besides.

I must not forget to mention the practical difficulties of Venepuncture which are immensely travated by blunt, over re-used needles and fat, chubby individuals with tons of subcutaneous fat ocuring the view; and God help you if you're not successful at the first attempt, because your itement will usually cause a second failure besides having to endure the cursing and muttering the individual concerned-usually a fat sow at that!

Then comes the Night Calls. I never knew the joy, the utter bliss, of undisturbed sleep now, and if this isn't the cure for Insomnia, I don't know what is!

Perhaps the most difficult job of all is having to inform a patient's relatives that there is no pe of recovery, or worse still, of having to break the bad news itself to them. There is always sense of guilt that you haven't done enough, and after you have said the crucial few words, how wish you had a truck load of Tissue Paper on hand to quell the ensuing deluge.

A very strange experience is to meet members of the older generation, and to have them call 'doctor' now, whereas you were probably known by some much more juvenile term previously. fact, it is much better to try and avoid bumping into some well meaning relative than to have spill your usual nickname unintentionally. Come to think of it, things haven't really changed that much since graduation, have they?

Experiences and Thoughts of A Radiotherapist

- A GRADUATE

My first impression when I joined radiotherapy was that everything was gloomy. All the ptaients seemed in very low spirits, as though they were just waiting to die.

The impression has changed quite a lot during my few months' practice.

All the inpatients suffer from malignant diseases, with the exception of a few cases of thyrotoxicosis, the commonest being nasopharyngeal-carcinoma, carcinoma of the cervix in the second position. The rest include carcinoma of larynx, lung, and oesophagus, leukaemia, melanoma, and so on. The patients are admitted when they are in poor general condition or when their treatment has to be under close observation. Those in good general condition are treated as outpatients.

At first I found it hard to believe that at least about half of the patients do not live the impression that they are suffering from a malignant disease. For instance, some of the patients coming back for follow-ups are gay, and leading normal lives, free from all their initial sufferings, having no complaint whatsoever, and say that they have returned only because they were told to do so. Of course, these are the luckier ones who are considered to be cured.

But, for another group, the treatment offered is mainly palliative. These include secondary metastases causing a lot of pain; secondary enlargement of lymph nodes, secondaries to skin, dyspnoea in ca larynx and ca lung, dysphagia in ca oesophagus. All these cases are referred to us as inoperable, but, no one can ever say for sure how much longer they have to stay in the world. Radiotherapy and chemotherapy can offer quite a lot by way of palliation with minimal trouble to the patient. The bone pains may subside com-

pletely: lymph nodes shrink to normal size: ulcerative areas stop bleeding, swallowing no longer leads to pain or to an obstructive sensation; and the whole lung may respond and dyspnoeas disappear.

These patients are full of gratitude, hope and the determination to live, realizing that as sciences progresses everyday, every tomorrow holds a new future.

The third group are those undergoing them first course of curative treatment. Since they are not yet sure of their future, they are always wor ried at the beginning, but, as treatment continues they feel better and their suffering is relieved. Confidence and hope grow every time they come to see us. In fact, I have the same feeling inside and pray that my efforts may not be in vain.

Of course, there is also the group of terminal cases that are nearing the end of their lives in a matter of days. For these all we can do is to give them heavy sedation and strong analgesia to relieve their suffering.

And it is this last group that draws the been out of a doctor, the best of his loyalty to the patient and to the Hippocratic Oath. It cannot be overstressed that a patient with a malignant disease in his terminal stage deserves just a much attention as a patient that offers extremely good prognosis. My acquaintance with this despartment has prompted me to end my short store with a quotation from the Hippocratic Oath.

"... I will give no deadly medicine anyone if asked, nor suggest any successful counsel ... with purity and with holines I will pass my life and practise many successful countries."

THE TRAINING AND EXPERIENCE OF THE ANAESTHETISTS

by Z. Lett, M.D., F. F. A. R. C. S. (Eng.) & (Ire.), D. A.

Although the well trained anaesthetists by we of their knowledge, skill and experience I for some aspects of their work, be very ally engaged outside the operating theatres, the mentioned later), it is mainly in the operating theatres that the major part of their messional duties will be carried out. The main act of anaesthesia is to render surgical process (operations and investigations) free from and safe (for the patient and also all the adding staff). It would be beyond the scope his article to go into a detailed description pain. Suffice it to say that pain at best is a unpleasant sensation that, in the case of gical procedures, might well become unsuffer-

There are, basically, two ways in which this from surgical interventions can be alleviat-

- (i) by the employment of local anaesthetic drugs. Injection around a nerve motor and sensory will abolish temporarily conduction along a nerve blocked in such a manner, the patient may remain conscious.
- (ii) by the use of drugs acting on the central nervous system (general anaesthesia). The patient is rendered unconscious and so oblivious to the pain.

It is a matter of history that anaesthesia was rn in the 1840s, when Dr. W.E. Clark of ochester, N.Y. gave ether for a dental extraction in 1842 and Dr. Crawford Williamson Long moved a tumour from the neck of his patient der ether anaesthesia a couple of months later Jefferson, Georgia. However, the credit for atting anaesthesia on the map is usually attrituted to Dr. William Thomas Green Morton. This gentleman administered ether (in the now mous "ether dome") in the Massachussets Gentral Hospital in Boston on 16th October, 1846 a patient named Gilbert Abbott. The surgeon,

Dr. J.C. Warren was so impressed, as he was painlessly removing a tumour from the patient's jaw, that he exclaimed in amazement "Gentlemen, this is no humbug!"

Originally the only drugs available for the production of anaesthesia were ether and chloroform (introduced by Dr. James Young Simpson on 4th November, 1847 in Edinburgh). Later other substances were being introduced until today the anaesthetists have at their disposal a variety of drugs acting on a variety of anatomical and physiological levels.

As, from the ealiest days of anaesthesia, it was the poduction of unconsciousness and the subsequent care of the unconscious patient that anaesthetists had to achieve, it was not surprising that they became more expert in their field than other physicians who by the nature of their duties look mainly after conscious patients. Unconsciousness of any sort, however (including ordinary sleep), may embarass the free airway by the tongue falling back and the deeper the coma (anaesthesia) the more danger to the airway. Furthermore, the risk of inhalation of vomited or regurgitated stomach contents and/or any foreign bodies increases during anaesthesia when the patient's protective reflexes are depressed. It became, therefore, more essential to secure the freedom of the airway by the passing of endotracheal tubes. Although the earliest record of this being done in human patients was in 1878, when Macewen in Glasgow introduced intratracheal intubation through the mouth, endotracheal intubation was an art and skill that only very few acquired, and in those earlier days, when endotracheal intubation was considered necessary, it was not uncommon for the E.N.T. surgeon to be requested to come to the operating theatre just to place the tube into position.

This situation persisted till the 1914-1918 World War. During the warfare in France, the number of casualties, including facio-maxillary

injuries, was very great. This encouraged two British anaesthetists, Dr. Ivan Magill (Now Sir I. Magill of the Magill's tubes fame) and Dr. Rowbotham to develop their "blind naso-tracheal intubation" technique. Even this requires considerable experience and skill and there were not too many who became proficient in this.

The introduction of the "muscle relaxants" by Griffith and Johnson in 1942 in Canada and later Gray, Halton and Patterson in the U.K., by producing paralysis, made endotracheal intubation easier and all anaesthetists are now taught and trained to become experts in this field.

Production of generalized paralysis by the use of these "muscle relaxants" added, however. a further dimension to the duties and cares of the anaesthetists — the maintenance of the patient's respiration. This was done by ventilating the patient usually with a mixture of Nitrous Oxide and Oxygen (although air and ether has also been successfully used as advocated by Sir Robert Macintosh) through a cuffed endotracheal tube, using intermittent positive pressure respiration (I.P.P.R.) Originally it was the anaesthetists' hand that supplied the motive power by squeezing the reservoir bag on the anaesthetic machines. Gradually, however. mechanical respirators were being introduced for this purpose, utilizing various physical principles. By employing mechanical respirators, the anaesthetists may be relieved of the actual physical or mechanical work of squeezing the bag, but this has, of course, led to the necessity of brushing up and mastering their knowledge of physics (as there are as many as 60-70 models of respirators on the market today).

The tendency to operate on the more sick and elderly patients has also brought with it the necessity to employ more monitoring equipment in the operating rooms.

As more numerous and powerful drugs are being employed even before the patients come for anaesthesia and surgery, the interaction between them and between the drugs (and methods) used in anaesthesia must be understood and evaluated and taken into account. A thorough and extensive knowledge of pharmacology becomes mandatory. As patients needing surgical intervention will often be suffering (in addition to their surgical condition) from one or more derangements of their systems, ranging from metabolic conditions, diabetes, to endocrine disorders and obstetrical complications, a knowledge of these and other numerous condi-

tions and diseases is also essential.

Many surgical patients are either in shock before they come to the operating theatre or may develop it during the operation. Here a thorough working knowledge of fluid replacement and electrolyte balance and blood gases is important.

For the successful placement of local analgesic drugs a good idea of topical anatomy and landmarks is also required.

Training & Qualifications

In the British system of training as anaesthetist the medical practitioner starts after becoming registerable. There are no house-officer appointments in anaesthesia. Training is carried out in all Teaching Hospitals and a number of other Hospitals. These latter have to be recognised as training hospitals by the Faculty of Anaesthetists of one of the Royal Colleges The highest qualification obtainable in this field is the Fellowship of the Faculty of Anaesthetists in one of the Royal Colleges (F.F.A.R. C.S.). There are four Royal Colleges with Faculties — England, Ireland, Australia and South Africa. The examination consists of the Primary and Final. The Primary comprises Anatomy. Pharmacology and Physiology. As from 1971. Physics is likely to replace anatomy as a major subject in the Primary. The Final F.F.A. comprises Medicine, Surgery, Applied Anatomy and Radiology, and, of course Anaesthesia in all its forms and aspects.

As a matter of interest, the Royal College of Surgeons has recently published the following notice regarding the Primary F.F.A. examination:—

"In the Primary F.F.A.R.C.S. Examinations there will be one three-hour essay papers in which candidates will be required too answer three questions with a choice of one question out of three in each subject of the examination, namely (a) Physiology (including the relation of structure to function), (b) Pharmacology, and (c) Physics the principles of Clinical Measurement and the principles of Clinical Chemistry with special stress upon those general principles which concern anaesthetists.

The multiple-choice question paped will last for three hours and will consist of ninety questions covering these three subjects."

There is also another examination for the Degree of Diploma in Anaesthetics (D.A.)

stiar but not quite as extensive and thorough reledge will be required as for the Fellow-

With all this training and experience, be does the sphere of action and duties of present day anaesthetists lie?

In the Operating Theatre —

Here the anaesthetists is completely in completely in charge of the patient's anaesthetic requirements and also respiration, where appropriate. The anaesthetists will also, in consultation with their surgical and other colleagues, be responsible for the patient's circulation, temperature (when hypothermia is used) fluid and electrolyte replacement positioning and protection of patients against anything harmful (e.g. burns, nerve damage due to over extension of arms, etc.). The choice of the method of anaesthesia as well as the drugs to be used will fall largely within the anaesthetists' responsibility.

The recovery room which is usually adjacent to or within the operating theatre is used to keep the patients under surveillance and treatment after operation until they are considered fit by the anaesthetists to return to their wards.

Outside the Operating Theatre —

- a) In the wards anaesthetists will often be consulted about the patients' preoperative preparations, premedication, cardiac and respiratory derangement and any other factors that may adversely affect his progress later.
- b) Intensive care unit: here the anaesthetists have also a prominent part to play in dealing with patients in moderate to severe cardio-pulmonary derangements and deficiencies.
- c) Anaesthetic outpatients clinics: in many countries these clinics, where the anaesthetists can see patients who are due to be admitted for surgical operations can order various investiga-

tions and treatment thereby saving valuable hospital beds and time, are becoming popular.

d) Pain clinics: patients with intractable pains, for whom other modes of treatment have proved unsuccessful, may be referred to this clinic where anaesthetists can block the nerves leading to the painful area thereby rendering the patients' lives more tolerable especially in incurable malignant disease.

As can be seen from the foregoing the anaesthetists are deeply involved in many aspects of patients' treatments and care. And the patients, by placing their lives and well-being into the hands of the anaesthetists are putting a very great and burdensome honour on the Anaesthetists' shoulders. The anaesthetists in turn will by their knowledge, skill, constant vigilance and attention ensure that the patients' confidence will be fully justified.

Many advances in our knowledge of phypharmacology and respiratory and other care and resuscitation stem directly from better understanding and realisation of the lessons learned in our care of the unconscious and anaesthetised patients. The extension of the surgical possibilities depends, to a large measure, on the ability of the anaesthetists to keep patialive during surgical procedures manouvers (as in open heart surgery, organ transplant surgery etc.) The anaesthetists' contribution to the well-being of the community is being progressively more realised and appreciated. The late philosopher, Prof. C.E. Joad in one of his latest books "The Recovery of Belief" has this to say about anaesthesia "There is a time-honoured controversy as to the mosts important single discovery of the human race. Some opt for fire, some for the invention of the wheel, some for the growing of corn. For my part I would give my vote to the invention of anaesthetics." I am grateful to Dr. Gerald Choa, the Hon. D.M.H.S. Hong Kong for his kind permission to publish.

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Stresses of The Medic Student



Dr Sabardikary examines the part played by stress in creating this problem and lists the stresses to which medical students are subject.

- 1. The feeling of helplessness in relation to the instructor's power.
 - 2. Examination strain.
- 3. The initial experience with the cadaver.
- 4. Difficulty in adjustment to the transition from preclinical to clinical year.
- 5. The initial experience with the physical, gynaecological or rectal examination of patients.
- 6. History taking, representing as it does an invasion of the patient's privacy.
- 7. The encounter with psychiatry with its own emotional problems and conflicts.
- 8. Autopsies, venereal and leprous patients.
 - 9. Fear of error in diagnosis.
- 10. Fear of contagion and acquiring disease.

- 11. Death of a patient.
- 12. Discovery that the physician is not omnipotent and he is studying for uncertainty.
- 13. Isolation, the effect of limited recreational and social outlets
- 14. Long-term conflict over the dependent role the student must assume.
 - 15. Protracted sexual conflicts.
- 16. Nosophobia. Medical students are prone to fears of ill health.
- 17. War with the faculty-concern with impressing or failing to impress the faculty and concern about his ability to absorb all of the material in the given time. He usually has too much to learn but is given little guidance to select the important things.

Because of these stresses many students will require some psychiatric guidance and help and therefore a student health service must be staffed with psychiatrists and clinical psychologists.

— Adapted from Intermedica Vol. XI No. 1, 1969

After Two Years On The Department of Physiology

by C. P. K. Cheng

In the past two years, I was asked hundred mes by my former classmates, friends, collines and students why I joined the Department of Physiology. I wish the following parameters will serve as a sort of answer to this listion.

Frankly speaking, I think it is a shame that ew our medical graduates join the preclinical artments. It seems that the University itself i rectly discourages such a move, for reason · lained later. Also, preclinical teachers are rally not respected by medical students (esially when they have passed their 1st M.B. mination), or by their clinical colleagues. The **1** Ers appear to think that we are the failures the medical profession; they think that we • up physiology because we are not good enigh to do medicine, or we take up anatomy cause we cannot do surgery. They forget that basis of the practice of medicine is the knowge of the structure and function of a normal man being and that this knowledge is in the in explored and broadened by the members preclinical departments. The desire to search such knowledge is the reason for my decin to take up my present post.

Medicine to-day is still far from being a ence. It is as yet mainly the application of npirical formulae and the excision of diseased rtions of the body. A patient is seldom cured the sense that the cause of the disease is comzetely irradicated and the whole body is restorto the original state before the illness. To hieve the latter end, we require a complete inderstanding of the functioning of the human ody under various conditions of external entronment. There is still a long long way to go before we can apply the word 'complete' to our nowledge of the human body, and it is even

probably that we shall never be able to achieve the goal. But the hope that I might contribute a fraction of an inch in the march towards this goal made me choose a laboratory rather than a hospital ward as a place to work.

Physiology is a challenging career. You have to design new experiments and new techniques every day. It is also an interesting career. The field is so broad that you can almost do anything that interests you. The daily work is never like routine ward duties. Unexpected results and discoveries are frequent, and you will have a wonderful time in analysing and explaining them. Then you put the results together into a paper, and the satisfaction when you see your own paper published in a learned journal is beyond description. In a preclinical department, the working atmosphere is very friendly, for it is not necessary to try to push your fellow colleagues down in the competition for the scholarship or fellowship to go abroad for the membership examinations. Your sole competitor is Nature who hides the secret of the truth that you are seeking.

From the above description, it seems that I should be one of the happiest man on earth. The cruel fact is, I am not. I have my unhappy days and these come once every month, at the end of each month, around the pay day. How would you feel if, you know that your former classmates, with the same qualification, working in the same faculty of the same university, and teaching the same students, are paid much better than you? The immediate feeling when I first learned of the differential treatment was that I was betrayed and made an outcast by the medical profession. What bothers me is not the discrepancy between the clinical and preclinical scales but the fact that there are two different

scales. In most other universities, there is no discrimination between preclinical and clinical medically qualified teachers (for example: University of Manchester, University of Malaya. University of Auckland and University of Zambia, etc.). In some, there is is a special allowance for medical qualification (for example: University College, Cardiff University of Glascow, University of Newcastle upon Tyne, University of Adelaide, and University of Otago, New Zealand, etc.). So I keep on asking myself whether it is worthwhile to remain in the Physiology Department and continue to receive a salary five to ten thousand dollars less a year than a clinical lecturer, or to shift back to a clinical career. It is due to the fact that I like experimental research so much that I have finally decided to stay on at least for a few more years. But our other medical graduates apparently do not think this worthwhile. I believe

that this is the main reason why so few of our medical graduates join the preclinical departments.

The above is just an account of my thoughts, views and feelings after working two years in the Physiology Department. As a conclusion. I have a piece of advice to all doctorsto-be. If you can afford it financially, (for you will join a preclinical department as an assistant lecturer with a salary of less than two thousand dollas a month), a couple of years spent in research in basic medical sciences is not a waste of time. You will be trained to be more observant to small deviations from the accepted normal more critical of other people's views and more rational in drawing conclusions. All these will be very beneficial whether you will eventually take up clinical practice or preclinical science as vour career.

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the experiences of a flight surgeon

dr. won kyu, lee

The development of aviation medicine rts from full recognition of the almost insurbuntable human problems imposed by modern that aircraft. It is the primary mission of flight surgeon to make it possible for the ot to adapt to the conditions created by the eater speed, higher altitude, extended range and creased complexity of operation which charatze the aircraft of today and tomorrow. The ght surgeon, therefore, has to have the capility to pursue the art of practice of aviation edicine by the full ultization of all available lowledge.

The principal objective of the flight surion's activity is the continued maintenance of
the pilot in the highest possible state of fitness
ander all circumstances. So, selection of the flyis falls within the domain of the flight surgeon.
The primary motivation for organising the Aeromedical Society in the States after the first world
ar was to set up the criteria for the selection
of flyers. With the advent of supersonic jet flight,
wore critical selection of flyers is necessary so
much so that the flight surgeon has to have more
recurate and expert experiences.

In addition, the flight surgeon has not only manage the probable accidents induced by ne stress of flying, but also to prevent untoward appenings which may occur when then unfit fly. Adequate administrative control of flyers is herefore necessary and this is never an easy job. It takes a lot of time and energy to accomplish the goal of the flight surgeon.

Critical problems are probably encountered in the area concerned with the protection of the layers against the hazards and stresses of flights. The complexity of these problems is readily recognised when one briefly considers the many pazards and stresses encountered by the aircrew of modern operational aircraft. In high altitude

flights, exposure to hypoxia, dysbarism, temperature extremes, ozones, cosmic radiation and visual problems are inevitable. The very high speeds produced by acceleration forces — linear, angular and radial produces extremely high temperature and also poses certain important visual problems.

The occasional necessity for the flyer to abandon his aircraft in flight presents many problems of escape, such as high speed and high altitude. Inevitable crash landings and ditchings make it necessary to consider the problems of crash deceleration forces and the protection of the individual against these forces. There are also many special stresses which may plague the flyer, such as exposure to toxic substances (including those associated with aircraft operation and those of unconventional warfare), vibration, sound, ultrasound, hazards of many types of projectiles, fire, and circumstances which induce sensory illusions of flight. The solution of all these problems may be found in the proper application of three programs: survival training, equipment and physiological training and medical indoctrination. But most important of all the flight surgeon should make a close observation on and establish rapport with the pilots.

The flight surgeon is the key figure in the success of these important activities. The day's work begins with line visit of the assigned squadron in early morning, listening to briefing of their daily mission, observing the physical and psychological conditions of each pilot, giving them chance to consult him on their problems, and finally advising the commander on medical aspect of validity of their mission.

Sometimes the flight surgeon also join in the flight, in fact, he is required to maintain certain amount of flying time in order to be able to meet with the problems of the flyer properly. Another important requirement connected with the medical aspects of flying safety is in the training of the flight surgeon in handling emergency crash and casualty. The investigation of aircraft crashes is a first consideration in the flight safety research program; and the flight surgeon's part of the investigation is often invaluable because of the high incidence of human factors in the causation of accidents. This is the reason why flight surgeon must always be ready for the emergence call to arrive on the spot of aircraft crashes as soon as possible.

Every medical school graduate in Korea has to experience the army life once. Many are frustrated to drop in the three year delay but if we think it is our inevitable duty to serve in the army for our national defence, will it not be a wonderful chance to be a doctor of the sky enjoying life with the flyer?

The author, Dr. Won Kyu, Lee, a 1969 graduate of the Yonsei University, College of Medicine, a member of the World Student Christian Federation Asia Committee, 1968-1972, is

now working at the research laboratory in the Aeromedical Centre, Korean Air Force, South Korea. He has visited the University of Hong Kong in March 1969 and again in April 1970.

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Degree Congregations

Thursday, 26th November, 1970

At the Seventy-sixth Degree Congregation held on Thursday, November 26, 1970 at 10.30 ım., the following degrees were conferred by the Acting Chancellor, the Hon. Sir Hugh Normanl'aiker, K.C.M.G., O.B.E., J.P.

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一個畢業生的隨筆

一獻給夢滄—

實習醫生幾個月,已經許久沒有這種感受了。 清新的氣息,畧帶微寒,深深吸一口氣,剎時覺得自己年輕了許多,做了 從病房步囘宿舍,剛是黎明時分,猛然一陣晨風拂來,夾着松枝露珠

上心頭,記得的却往往只是快樂美好的片段。便算最難過的時刻,挨過後人就是這麼奇怪的。做學生時候密鑼緊鼓,忙裏偷閒的辛酸苦辣,湧

不會又別有滋味在心頭?

间想來反別有一番滋味

敢知道。比較起來,學校的考試實是最簡單的了。 人生到處都是考驗,在試塲裏,球塲上,病人前;還有,自己與自己

穫的農夫,他們的精神,是永遠值得我們敬佩和感激的。農活受罪;但大家看上去總是嘻嘻哈哈,熱熱鬧鬧的。我記得以前看過一 給我們知識。這種說法我不敢完全同意。我覺得老師有如散種的人,至於給我們知識。這種說法我不敢完全同意。我覺得老師有如散種的人,至於給我們知識。這種說法我不敢完全同意。我覺得老師有如散種的人,至於給我們類種子會不會發芽,却有不少影响的因素了。對於只問耕耘,不問收給的農夫,他們的精神,是永遠值得我們敬佩和感激的。

心中一直担心不夠錢用,要不要挨大排檔,趕不趕得到下一班車等等,到旅程本身令人心暢神怡。所以雖然早上五時起床,奔波勞碌,風塵濮濮,出來十分平凡,可是不知是不是因爲心中沒有憂慮,不知煩惱;抑新鮮的我想我一生最快樂最難忘的,莫如畢業試放榜後到台灣的旅行了。說

東西,多是短暫而難以捉摸的。大概正因這樣,才更覺那些時刻珍貴吧。了。將來如有機會再到台灣,會不會有同樣的體會,我也不敢說。美好的錯,但世界總有比它更美的地方,只是,要我再有同樣的感受,恐怕很難的,可是我却一點兒也不累,反覺精神異常,與緻極好。台灣的風景很不

過的人,是很難明瞭的。誰知道,將來囘顧這一陣子多姿多釆的呆板生活悟功半,日以繼夜,天昏地暗,吃無定時,睡永不足,個中味道,沒有做不認這一年是當相辛苦的。才開始的時候,一切未能適應,手忙脚亂,事實習醫生,哈,多少人羨慕。可是連最懂得利用時間的人,也不能不

要業典禮是許多人早已在作準備的大慶典。記得麥花臣教授昨天在酒會中曾說:「每當一個畢業生從台上走過,他的家人都為他感到驕傲。但會中曾說:「每當一個畢業生從台上走過,他的家人都為他感到驕傲。但有事,是是大都談得來,但那種擠在一起的情形,令我有一種十分熟悉的感覺,一個畢業的子女,我有一百多個兒女,誰能比我更自豪?」在此,謹謝謝力。 一個畢業的子女,我有一百多個兒女,誰能比我更自豪?」在此,謹謝謝力。 一個畢業的子女,我有一百多個兒女,誰能比我更自豪?」在此,謹謝謝力。 一個畢業的子女,我有一百多個兒女,誰能比我更自豪?」在此,謹謝謝力。 一個畢業的子女,我有一百多個兒女,誰能比我更自豪?」在此,謹謝謝力。 一個畢業的子女,我有一百多個兒女,誰能比我更自豪?」在此,謹謝謝力。 一個畢業的子女,我有一種十分熟悉的感覺,一 一個畢業的子女,我有一種的情形,令我有一種十分熟悉的感覺,一 一個畢業與禮是許多人早已在作準備的大慶典。記得麥花臣教授昨天在酒 一個畢業與禮是許多人早已在作準備的大慶典。記得麥花臣教授昨天在酒 一個畢業與禮是許多人早已在作準備的大慶典。記得麥花臣教授昨天在酒

種種困難?能不能自始至終保持自己對理想的追求,對學習的愛好,思想心靈?我們能不能不怕外界的壓力,不怕內心的矛盾,不怕工作人事上的畢業了,我們可能有一個受過教育的頭腦,但有沒有一個受過教育的

學生爲之失色,可惜他們用的粉牌子不好,過濃的香味有些刺鼻。表現呢。在花蓮的阿美族文化村裏,山地姑娘倜倜濃妝艷抹,香港去的女團友看了鰲不住青聲哈哈大笑起來,在香港倒邊沒有巢隊會上大嶼山等地

我們又會有些什麼可以值得留下的?這是空白的 的足蹟。第一次跟團體去,走馬看花的實在看不出什麽來,所以在自由活 我爲此而感到驕傲,但是,在另一 條舗了花磚的筆直長道。遠望過去,有些像北平的天安門,那裏有我二次 有意義的去處。該館位於台北近郊,是一座白牆紅瓦的建築物,面前是 的歌舞團, 可有什麼更具代表性的? 中華民族的智慧和精明,然而 時作第二次遊。博物館內的古代文物,琳瑯滿目,價值連城。 樣都喚起我的激動情緒。我是 其實 想到這裏,不禁黯然。翠玉白菜,翡翠屛風這些無價實充份代表 ,在台灣,能引起香港旅客興趣的,不是園山飯店,不是阿里 而是一些香港所沒有的景和物。在我的目中,故宮博物館是最 ,這些就像死水一樣,在現代的中國 方面,我想到了我們這一代的中國人。 一個有五千年歷史的優秀民族的後代 一代, 傍徨的一代, 亂離 每 ,

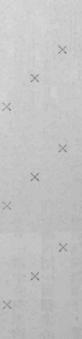
念的出世隱士。三小時的步行,攀越固然累人,但亦值得之至。,進過仙洞,處身於亂石屹立,樹木參天的森林間,彷彿作了拋棄世間俗的叢林,曲折的小徑,在原始中加入了少許人工的塑造。我們經過狹谷,搵了公園」的別名,我仍覺得不枉此行。這是台省最大的天然公園,深深搵了一處令我大開眼界的是台南的墾丁公園。縱然有人在遊覽後予以「

起來,她却坦然的說:「你們的英文好不是更好嗎?」是嗎?我不知道。他的是在台灣十多天中,和當地人,尤其是學生的接觸甚少。團中有一位憾的是在台灣十多天中,和當地人,尤其是學生的接觸甚少。團中有一位憾的是在台灣十多天中,和當地人,尤其是學生的接觸甚少。團中有一位時,在離台前二天,在台北溜冰塲遇上一位升高三的女孩子,和她聊了一起來,她却坦然的說:「你們的英文好不是更好嗎?」是嗎?我不知道。不過遺方面,對於素未遊過埠的我來說,有如處身山陰道上,目不暇給。不過遺方面,對於素未遊過埠的我來說,有如處身山陰道上,目不暇給。不過遺方面,對於素未遊過埠的我來說,有如處身山陰道上,目不暇給。不過遺方面,對於素未遊過埠的我來說,有如處身山陰道上,目不暇給。不過遺方面,對於素未遊過埠的我來說,有如處身山陰道上,目不暇給。不過遺方面,對於素未遊過埠的我來說,有如處身山陰道上,目不暇給。不過遺方面,對於素未遊過埠的我來說,有如處身山陰道上,目不暇給。不過遺方面,對於素未遊過埠的我來說,有如處身山陰道上,目不暇給。不過遺方面,對於素,也可以說是紙作名符其實的「觀光」。在景色的欣賞

了面霜。中國幸而還有統一的文字,否則情形會更壞。同學要買二斤香蕉,賣蕉的一聲應是便切了二根給她。有同學要蚊香而得由於大家言語不通,誤會百出,却也爲我們的旅程平添不少笑聲。有

可給咬得雪雪作痛,眼淚終於忍住了。 自清光電點束,養實車把我們載回基隆上最認善。車子在路上風觀電頭給咬得雪雪作痛,眼淚終於忍住了。 與一隻移的房屋、樹木和街道,我對台灣留戀起來。一股强烈的反感使我 好會嘅哭一塲,爲自己,爲在香港的青年,爲中國……然而……手指 我會嘅哭一塲,爲自己,爲在香港的青年,爲中國……然而……手指 我會嘅哭一場,爲自己,爲在香港的青年,爲中國……然而……手指 我會嘅哭一場,爲自己,爲在香港的青年,爲中國……然而,然而自生自滅 對會嘅哭一場,爲自己,爲在香港的青年,爲中國……然而,然而 對會嘅哭一場,爲自己,爲在香港的青年,爲中國。而當孤兒見到別人受到 我會嘅哭一場,爲自己,爲在香港的青年,爲中國……然而 如果這時祇有我獨自在的話, 我會嘅哭一場,爲自己,爲在香港的青年,爲中國……然而 如果這時祇有我獨自在的話, 我會嘅哭一場,爲自己,爲在香港的青年,爲中國。而當孤兒見到別人受到 我會嘅哭一場,爲自己,爲在香港的青年,爲中國。而當孤兒見到別人受到 我會嘅哭一場,爲自己,爲在香港的青年,爲中國。而當孤兒見到別人受到

的惆悵氣氛中結束。





搬一下精神,見識一下,及得一些新的感受。 暑假放後才三天,便要匆匆作台灣之遊。不爲什麽,就祗想鬆弛,抖

了基隆巷。 是出乎意料外的舒適。第三天早上,在晨光曦微下,在薄霧中,輪船進入是出乎意料外的舒適。第三天早上,在晨光曦微下,在薄霧中,輪船進入了基隆巷。

還會陌生到那裏去嗎? 眼簾的街道、房屋及店舗,在陌生中帶了些稔熟。在一塊中國人的地方,麥克亞瑟公路進入台北市。我坐在靠窗的位子上,貪婪地內外張望。映入麥克亞瑟公路進入台北市。我坐在靠窗的位子上,貪婪地內外張望。映入踏上了這塊陌生的中國土地。一架大型遊覽車載着我們一團三十人經

花公路等她囘台北。全程共爲十二天。 島南極端的鵝鑾鼻燈塔。再沿東岸北上經台東、花蓮、遊橫貫公路及經蘇北南下,沿西岸途經的地方有台中、嘉義、上阿里山、台南、高雄直抵台北南、沿低照預定的行程表,在台北遊覽了三天後,便作環島旅行。自台

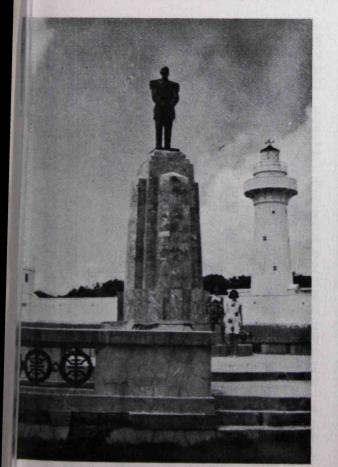
世的東西横貫、蘇花二大公路。 一路上足踄無數名勝古蹟如陽明山、烏來、日月潭、春秋閣、鄭成功一路上足踄無數名勝古蹟如陽明山、烏來、日月潭、春秋閣、鄭成功

部不能相併而論。港大醫學院則處於二者之間。在二間醫學院及榮民總醫院。二間醫學院前者由私人開辦,後者是國立,所以在規模及設備方面,除大學外,我們並參觀了高雄醫學院,在台北的國防醫學及榮民總醫

奢華,還是落後和時髦的對比?制服。跟穿白襯衫,西裝褲,拴領帶和拿占士邦喼的香港醫學生是樸素和國防醫學院的學生有一個特徵。他們一律剪了「陸車頭」,穿米黃式

。內部是宮殿式的佈置及裝飾,富麗堂理。不過在來自香港的我們來看展、內部是宮殿式的佈置及裝飾,富麗堂理。不過在來自香港的我們來看上,一個山大飯店。這座酒店外牆用紅磚砌成,建於一山丘上,面臨松山機區入夜後便寂静如香港的九龍塘一般 ,我們又慕名往台灣第一流的酒店了旺角,香港還有尖沙咀,北角及灣仔等區,台北除了西門町外,其他地裏,熙來攘往的行人及燦爛奪目的霓虹燈可以媲美香港的旺角。然而,除一個山大飯店。這座酒店外牆用紅磚砌成,建於一山丘上,面臨松山機區入夜後便寂静如香港的九龍塘一般 ,我們又慕名往台灣第一流的酒店一一個山大飯店。這座酒店外牆用紅磚砌成,建於一山丘上,面臨松山機場。內部是宮殿式的佈置及裝飾,富麗堂理。不過在來自香港的我們來看場。內部是宮殿式的佈置及裝飾,富麗堂理。不過在來自香港的我們來看場。內部是宮殿式的佈置及裝飾,富麗堂理。不過在來自香港的我們來看場。內部是宮殿式的佈置及裝飾,富麗堂理。不過在來自香港的我們來看場。內部是宮殿式的佈置及裝飾,富麗堂理。不過在來自香港的我們來看

電結他、打鼓的樂隊,節目包括有披頭四的歌曲演唱。在坐的十多位同行里山閣,看了一塲歌舞表演。令我們目瞪口呆的是該歌舞團竟擁有一隊奏台灣比香港先進的地方也不少。我們上阿里山觀日出,當晚下榻於阿



,以抑止一發而不可收拾的一腔情緒。 風騰着,我又囘到這個冷淸淸的海灘來,尋找一個已失去了的舊夢。 ,以抑止一發而不可收拾的一腔情緒。

個人的性格無遺。我癡癡地笑來囘答她,不禁緊握着彼此的手。的家中走出來,漫無目的踱步到這一個被荒廢的海灘。那時的我,是多麼的大學無處呢。手指兒扣着手指兒,迎着清凉的海風,不知是人間何世也的快樂無處呢。手指兒扣着手指兒,迎着清凉的海風,不知是人間何世也的大學無處呢。手指兒扣着手指兒,迎着清凉的海風,不知是人間何世也的大學無處呢。手指兒扣着手指兒,迎着清凉的海風,不知是人間何世也的大學無處呢。手指兒扣着手指兒,迎着清凉的海風,不知是人間何世也的大學無處呢。手指兒扣着手指兒,迎着清凉的海風,不知是人間何世也的大學一樣多麼奇妙的東西,一笑不但可動人心,並可傾城,而笑更能表露的大學一樣多麼奇妙的東西,一笑不但可動人心,並可傾城,而笑更能表露的大學一樣多麼奇妙的東西,一笑不但可動人心,並可傾城,而笑更能表露的大學一樣多麼奇妙的東西,一笑不但可動人心,並可傾城,而笑更能表露的大學一樣多麼一樣的大學一樣

快樂了。我下意識地把她擁抱緊些。 快樂了。我下意識地把她擁抱緊些。 快樂了。我下意識地把她擁抱緊些。 快樂了。我下意識地把她擁抱緊些。 我和她最後擇了這一塊石面坐下。和暖的海風,洶濤的擊浪聲,悅目 我和她最後擇了這一塊石面坐下。和暖的海風,洶濤的擊浪聲,悅目

我很奇怪她這樣問,但很坦誠的囘答她:『我現在還在求學中,要等這時,她停了歌・抬起頭來,說:『林・你會不會去外國的?』

息。

們要分手的。』
「林,你知道,我的父母現正考慮移居美國,昨晚他們會向我提及,實三年才能畢業。資具不能量與正考慮移居美國,昨晚他們會向我提及,兩三年才能畢業。資具不能量與正了自身流過過分

那時我不知要說甚麽才好,我從來未嘗試過心靈上的痛苦,思想就是期。』

那麽的未成熟。

一面的情景。不論怎樣,我現在後悔我爲什麼連這最珍貴的一刻也失去。機塲的,但我不知怎的非常痛恨她,也許我太懦弱了,不敢面對離別最後不久,他眞的離我而去。我沒有送別,雖然她走前曾央求我陪同她到

這一年來,我曾努力以求忘記這段已過去的初戀,但我的情感已毫無保留的付出了,我的心,祇餘一個有形而無實的東西,內中有說不盡的空鳴之苦惱,竟然發出了以前所未有的共鳴,深深了解此失落自己的生命更鳴之苦惱,竟然發出了以前所未有的共鳴,深深了解此失落自己的生命更鳴之苦惱,竟然發出了以前所未有的共鳴,深深了解此失落自己的生命更鳴之苦惱,竟然發出了以前所未有的共鳴,深深了解此失落自己的生命更鳴之苦惱,竟然發出了以前所未有的共鳴,深深了解此失落自己的生命更鳴之苦惱,竟然發出了以前所未有的共鳴,深深了解此失落自己的生命更鳴之苦惱,竟然發出了以前所未有的共鳴,深深了解此失落自己的生命更鳴之苦惱,竟然發出了以前所未有的共鳴,深深了解此失落自己的生命更鳴之苦惱,竟然發出了以前所未有的共鳴,深深了解此失落自己的生命更鳴之苦惱,竟然發出了以前所未有的共鳴,深深了解此失落自己的生命更鳴之苦惱,竟然發出了以前所未有的共鳴,深深了解此失落自己的生命更鳴之苦惱,竟然發出了以前所未有的共鳴,深深了解此失落自己的生命更鳴之苦惱,竟然發出了以前所未有的共鳴,深深了解此失落自己的生命更視之苦惱,竟然發出了以前所未有的共鳴,深深了解此失落自己的生命更視之苦惱,竟然發出了以前所未有的共鳴,深深了解此失落自己的生命更大。

誰與上?長記和睛望。往事已成空,還如一夢中。人生愁恨何能死?銷魂獨我情何限!故國夢重歸,覺來雙淚垂。高樓

曾經滄海難爲水,除却巫山不是雲。

孤雲楓影漸黃昏,獨徘泊頭懷舊識,北雁南飛春去也,苦教杜鵑傳心

心曲

大矣

夢幻。您可知道在夢中,我常常看到您的微笑,永遠是那麽誠懇,那麽眞件我的,就只有放在書桌上您的照片,向我掬着微笑,蘸着少女的純情與祗有打掃地方的工友經過,他們都向我報以奇異的眼光,由他們去吧!陪祗有我在享受着這份孤獨和寂寞,同學們都囘家歡渡週末去了。偶然我現在依然逗留在學校的宿舍裏,走廊四周靜悄悄的,洒下了一片清

難以形容的惆悵!的時候,室內便盛滿了濃濃的幽暗,瀰漫於我的心宇,引起了似夢如愁,的時候,室內便盛滿了濃濃的幽暗,瀰漫於我的心宇,引起了似夢如愁,又是那烟雨迷濛,春濃似酒的季節了。日子總是濕漉漉的,風雨欲來

;網裏有我的夢,我的祝福,願這些憧憬與祝福,繞在您藍色的紗巾上,兒。遠處有一片密密的烏雲,雨絲過處,在灰灰的天空中,結了一張大網您可還記得我的房間有一個向海的窗口吧!是的,我現在就是伏在那

帶給您一串串玲瓏璀燦的夢境吧!



I know, man, I know! Put it back in there!"

要做好我的First M.B.」

BIOCHEM.出榜了,我得到七十分,班中的學!我要告訴您,今天 BIOCHEM.出榜了,我得到七十分,班中的學生我要告訴您,今天 BIOCHEM.出榜了,我得到七十分,班中的

,它帶給我一種安慰和無窮的溫馨!再讀。紙張上心靈的傾訴,使我瞥見您心裏的共鳴,我彷彿聽到您的聲音再讀。紙張上心靈的傾訴,使我瞥見您心裏的共鳴,我彷彿聽到您的聲音

步於花園道的幽徑,或者在靜靜的咖啡店的一角低低傾訴。您可知我現在數一數案頭日曆的日子,還有十多天,十多天後,我們又可手牽手漫

murmur!

理

想

不能有自 己 的

勇 氣 而 出 們走吧!

(們把樓宇交給外婆和舅舅看公,我們獲得批准離去。 , 也揮手告別 了我們的家 管

後

一九五八年十一月二十八日

鄉

別井

本是

0

尤其

是

此

就

不知

何

日

再囘

甚 别 而 的 刹 那 再壯 麗 鄉 的 顯 河 得 格外的 山 迷 親 切 人的名勝 可當愛 古 蹟 也 阻 不了

們的

甚 一麼送 行 的 親 友 羡慕 我 們 能 離 開 自 的

事

中滋味。罷不切地體會離構 ,也沒有 ,就讓我也試擬幾句 漏自 情別緒。《 了 渲 無法避 ,寫得委實太冗 染 去 後來 國 免 鄉 讀 , 劣 它 着 以 前

孩子的

淡

地寫出來

當時年幼,

未能深切地

經

歷

0

我只是憑着

記憶

區和父母的

述

錯

眞

實

的

囘

憶

面

所

的

地

是

童

時

既然本文是以

我父親的幾句

那麽

想過

製為領悟. 作開始

DRUG APPEAL FOR EAST PAKISTA

This was a project of the Medical Society to ask for donations from local drug firms for the survivers of the disaster in East Pakistan.

The following were collected:

Erthrocin **Humatin Kaps** Chlorostrep Suspension Humagel Midicel Suspension Iberol Dayalets-M Chewable Calcium Tablets Multiple Vitamins Cash

1,500 tablets 200 x 16's 800 x 60 ml 200 x 114 cc 327 x 60 cc 11.520 tablets 29,880 tablets 75,000 tablets 5 Kg HK\$500.00

The above were delivered to the Pakistan Government Trade Commission in Hong Kong, who had promised to deliver the drugs to Pakistan by the Pakistan Airlines.

Acknowledgement

The Medical Society would like to thank the following for their contribution to the success of the project:

> Abbott Laboratories Limited Parke Davis International Limited Hoechst Chemical Products Limited A. S. Watson & Co., Limited Anonymous donor Social Service Group, HKUSU

怎得才重遊?

鄉無處

倍

添

愁

見舊 我頭

時 山

柳 强

望河

登樓

家轉 事

眼 烟

如

百

縷

何處何們的

免令人屠覺兒戲。 其他如撲滅蚊虫等運動,也頗收實效。不過,那趕麻雀的玩意,就難

向着麻雀宣戰,真的是喊殺之聲,直冲牛斗。小小的麻雀兒,只好暫時搬 山刺耳聲晉的東西,揮舞着預先紮在竹杆上的稻草人,稀哩嘩啦的,一齊露台邊,或者跑到街道上,拚命地敲着銅鑼、大鼓、臉盆,和一切可以發 不是嗎?在指定的那天早上四時,全市的人便要起床,走到天台上,

×

×

的樓梯,登上碑頂,俯視下面的河山。瞻仰《國父的銅像。然後拾級而上,走到山腰上的紀念碑,沿着那螺旋型遊山玩水,或者到那中山紀念堂公園,在那寫着「天下爲公」的大堂前,雖然我們要參加種種活動工作,不過,如果舅舅有空,我們仍可照常

國。裏面最著名的建築,當然是七十二烈士之墓了。它就建在一個寬闊的園。裏面最著名的建築,當然是七十二烈士之墓原來的樣子,才知道這像是後來改建的。以前的碑頂,是另外一種標誌。)整座紀念碑,就高高地矗立着,直冲雲漢,令人覺得偉大,一烈士之墓原來的樣子,才知道這像是後來改建的。以前的碑頂,是另外一種標誌。)整座紀念碑,就高高地矗立着,直冲雲漢,令人覺得偉大,一種標誌。)整座紀念碑,就高高地矗立着,直冲雲漢,令人覺得偉大,一種標誌。)整座紀念碑,就高高地矗立着,直冲雲漢,令人覺得偉大,也成一種標誌。)整座紀念碑,就高高地矗立着,直冲雲漢,令人覺得偉大,一種標誌。)整座紀念碑,就高高地矗立着,直冲雲漢,令人覺得偉大,一種標誌。)整座紀念碑,就高高地矗立着,直冲雲漢,令人覺得偉大,也不可能。

一種標誌。)整座紀念碑,就高高地矗立着,直冲雲漢,令人覺得偉大,也成一種標誌。)整座紀念碑,就高高地矗立着,直冲雲漢,令人覺得偉大,也獨立之墓房,正面有一個父手筆「浩氣長存」四個著名的大字,比成一種標誌。)整座紀念碑,就高高地矗立着,直冲雲漢,令人覺得偉大,也不可能。

「一種標誌。」,在一種標誌。」,在一種標誌。」,在一種標誌。

黃吃商後面,是紅花崗。再往前走,便可到達前交所說的那個動物園

家院子裏的土爐爆炸後,那在旁工作首當其衝的人,血淋淋地被抬走的情缺乏足夠的知識。所以,意外便會隨時發生。我便曾親眼見過一宗建在人,我們早習以爲常。人們對所號召的勞動工作,只是憑着一股幹勁,跟本寧。在市郊及鄉村,公社的制度正摧毁着家庭親屬間的維繫。物質的缺乏率,我們回到學校,似乎不再是爲了上課。環境也越來越令人不安

紙,就只好晚一點才囘家。 賣晚報嗎?可也不如先前那麽容易。要賣完所分發到越來越大叠的報 形。從此,我就不大敢再接近校園內的土爐了。

。還是繼續走一會看看吧。

· 還是繼續走一會看看吧。

· 還是繼續走一會看看吧。

· 還是繼續走一會看看吧。

· 還是那麼的一大產。再往西走便是西堤了。難道眞的要直走到沙面,直中還是那麼的一大產。再往西走便是西堤了。難道眞的要直走到沙面,直中還是那麼的一大產。再往西走便是西堤了。難道眞的要直走到沙面,直

在黑暗裹,放出點點指引的光明。再走下去也是徒然,我祇好往囘走。所以晚上便顯得更黑暗。周圍冷清清的,只有路旁的街燈,仍在竭力地,海關的鐘樓,敲出了九下清脆的鐘聲。這是堤岸地帶,不是住宅區,

那是我囘家最晚的一天。

焦急的母親問明原委後,不禁嘆了一口氣。

你爸寄囘來的錢,也只有閒放着。以後別那麽傻了,吃飯去吧。」「孩子,我以爲甚麽大不了的事。幾份報紙,媽還替你買的起。反正

的。 親不便再亮上電燈,祇點上一盞火水燈放在飯桌上,偌大的廳子,昏沉沉親不便再亮上電燈,祇點上一盞火水燈放在飯桌上,偌大的廳子,昏沉沉,母弟妹們早已熟睡了,只有外婆和母親在等着我囘來。因爲夜已深,母

宣 全 BC日 K 已又技聞主可處等。 懂的在聽着。偶然聽到她們的輕歎聲,又似乎聽到,誰家的兒子被派到那懂的在聽着。偶然聽到她們的輕歎聲,又似乎聽到,誰家的兒子被派到那些的在聽着。

導師,和我們一班同學早已打成一片,師生之情,非常融洽。又太對不起他。到底他是一位雙得的老師。我讀初小時,也便已經是我的又太對不起他。到底他是一位雙得的老師。我讀初小時,也便已經是我的多大多數的。你只要在領子旁邊經過,說死不了要得下來,看上一個老

滴一滴地掉下來,劃過他的面孔。

手放在桌子上,握着拳頭,眼望前方,緊閉雙唇,一動也不動。淚水却一流淚。我坐在最前排,含着眼淚,望着面前的良師。他呆呆地坐在那兒,無論平日怎樣,現在都一同爲失去良師而心傷。女同學在嗚咽,男同學在無點向我們辭別的那一天,整個課室充滿一片愁雲慘霧。同學們,

,爬起來;低着頭的,昂起來。那麽,現實並不可怕。低頭?現實雖或殘酷,只要我們能咬着牙,挺着胸,大踏步前進;跌倒的低頭?現實雖或殘酷,只要我們能咬着牙,挺着胸,大踏步前進;跌倒的難

而此刻,您却在流淚!

語的小兒。您的家庭充滿了天倫樂。現在,您却要忍心抛下自己的家庭,不久之前,我們才訪問過您的家,見過您那高年的母親,逗過您那學人,畢竟是感情的動物。到了那眞情流露的時候,你便不能自已。

忍心離開我們一班同學,到那遙遠而又陌生的地方?

母妻兒,去抵受那鮮有重逢的分手。告別為您送行的親友,也告別為您送行的師生。然後,一去不同!留下老告別為您送行的親友,您便要拭淨夜來的淚痕,戴上笑臉,在歡送的人羣面前,

想到這裏,我再也止不住淚水。

老師啊,沒有別離的悲酸,怎顯得重逢時的喜悦?

祇有哭夠了的人,才會笑的最甜;

而您,却只有去的更遠,走的更促………

×

X

早懂得替成人們分憂的。

小孩子畢竟是小孩子,傷心的事總不會長記心頭。小孩子是不應該太

导诊熱鬧。 ,才不呢。我們可以把工作看作娛樂,看作消遣。我們不理會成果,只懂此後,我們上午上課,下午爲學校做些勞動工作。別以爲我們會發愁

在

壁報上。後來,我便被選爲一個中隊長

,負責學習和藝文的事

便拿起鐵片,鐵釘等,在那鐵輪剛走過的路軌上磨擦,生磁;然後較量誰便拿起鐵片,鐵釘等,在那鐵輪剛走過的路軌上磨擦,生磁;然後較量誰在路軌下的斜坡上。火車過後,一窩蜂地跳起來,掏出小刀,沒有小刀的可不是?在鐵路旁的山邊掘黃土嗎?當火車快要經過時,大夥兒便伏

歌,大聲地談笑。

17是一九五八年。我還未滿一歲,剛升

有甚麼相干?

《在溪中溝底,淘取沉鐵廢銅又怎樣?哈!這和嬉水有甚麼分別?

在溪中溝底,淘取沉鐵廢銅又怎樣?哈!這和嬉水有甚麼分別?

我正要走上去,忽然發覺,他是那麼一個大男人,我却是這麼一個小孩子中一人,赫然把一口痰吐在脚旁。呔!真斗胆。還不上前警告他待怎的?來到巷的盡頭,瞧見前面一間屋子門前,坐着兩個男人在抽水烟聊天。其地上吐痰。一天黃昏,我巡到學校附近一條巷子(大概叫做四聖里吧)。在禁止隨地吐痰運動時期,我們在街道上巡邏,勸告路人不可胡亂在

水,藕 園內廣植荔枝,楊柳, 花香發,清風陣陣,垂楊互接 叔也 會陪着我們, 紫荆,夾竹桃和各種花木;到處都是 到荔 , 荔樹相連…… 枝灣公園 遊 玩。 那兒有很多人工 一泓澄碧 的湖 湖 ,

跟 着外婆過河南 閒 時 , 或隨着母 買幾對雛鷄囘家飼 親逛逛高第街, 賽華路 養 0 的 百貨店, 顧 綉 綢 緞 行 等; 或

神, 帶着轉團團的風 逢神功佛 誕 車 外婆總是帶着 一回家 我們兄弟 往 那 三元宮 , 六榕寺 進 香 麥

所以 輪車,沿着文明 , 位於市郊新建 便可直達動物園了。園子佔地很廣 物外,還有亭台樓閣 路 的 動物園, ,越秀中路 往往 , ,中山三路 拱 令我們流連忘返 橋流水,假 ,仿照 中 照傳統的 十山二路 山 I 幽徑等 。我們乘坐公共汽 園林式樣 , 農林下路 建造 ,先 車

稱霸 木然地瞪着籠外的人羣,要不就索性躺在地上裝睡 子那麼大,還有堅固的 境?難道 進得園來,我們總是先瞧瞧那些猛虎,斑豹 牠們因被關起來而覺得氣悶?其實,籠子可也不小了,有整間房 的獸王 在籠子裏,竟是那麼懶洋洋的。難 石屋供牠們休憩。可是牠們却總是沒精打彩 0 雄 道 獅 牠們不習慣這 可 惜 , 這些 , 或者 新 曾 環 經

了你身上的惡臭外,誰會怕你。野狼却可厭。雖然被關在籠裏,仍然露着原來的兇相,拖着長長的舌野狼却可厭。雖然被關在籠裏,仍然露着原來的兇相,拖着長長的舌

的 孩子們總是喜歡看牠那人立的姿勢 樣子,逗得人們哈哈大笑 熊則有趣 0 別看牠那肥笨的 身軀, 0 嘿! 牠那搖頭 攀爬的工夫, 幌 腦 可 , 眞 步 有 兩搖 牠的 一擺手 手。

倚。更 怪討人喜歡的。你只要在籠子旁邊經過,就死不了要停下來,看上一 有老有幼 ,身手倒十分靈活 , 欲短了的大樹 会,要不就在鐵籠的四周攀上爬下;或者是相追相逐,或者是相偎 吸引遊人的 就是猴媽媽也會替小猴搔癢,小毛猴也會向人擠眉弄眼 0 籠頂還吊着幾架小鞦韆。籠內大約住着二三十隻 盪鞦韆啦,表演空中 倒要數那猴子籠了。籠很大,裏面有房子,假山,水池 也不分長幼尊卑,全都是頂頑皮的傢伙 飛猴啦; 要不就在假山 。個子 的洞 個老 穴鑽 小 相 小 0

> 都是分別關 比 較罕 見 在 的 較小的籠子裏 , 如 長 臂猿 , 長 红, 牠 尾猿 們也不會寂寞,同樣 和其他 我已忘記了名字的 是門 稀 有 猿 猴 類

有皮的剝去了皮,有核的吐出了核。上抛,牠們可也身手敏捷,一一地接牢;毫不客氣地,就蹲在樹上大嚼,上抛,牠們可也身手敏捷,一一地接牢;毫不客氣地,就蹲在樹上大嚼,。當然,人們對牠們也似乎份外同情,紛紛把香蕉,甘蔗,甜橙等,往樹至於那些被鎖在樹上,祇有一個小木匣棲身的猴子,則顯得孤單可憐

館內重演,劇中人物,衣服,容貌 互 我 因爲園子大,動物多,每 森 和 也 狐 個或者每一組蠟像,都是陳列在室內兩旁離地約二尺高的小型舞台上 供人參觀 的手臂粗 相連接,中央是一條寬闊的通道。看上去,一幕幕的歷史劇, ,完整整地 那鱷魚, 祇能作 狸 鯨魚。 在同一展覽館的另一角落,是 , 他 在市內另 野 如大象的獃 猪 局部遊覽而已 鋸魚 。不過,在小孩眼中, 館內還有製成了標本的大海龜 刺蝟 架在一間很深很寬的陳列室內,非常龐 處早已忘記了名稱的展覽館 ,鯊魚等。 掛 里 , 着一 松鼠 一歲氣 。同時, 條紅布條,白色的字寫着:「 種動 , 蟒 而最令我難忘的却要數那副 駱 物都有可觀之處,所以 蛇 駝的老態龍鍾; ,珍禽 事 這展覽館 一所 , 隔多年, 動作, 襯上時代背景, 陳列着很多歷史人物的 , 猛禽等, 就遠不及動物園來得有趣 ,八爪魚和很多其 内 東 子的印 還有長 可以 總之, 像 , 頸 世界上最 ,一根肋 鯨魚 即使走上 到 已糊模 鹿 種種 難以 , 眞 的 斑 水族 的是栩栩 蠟像館。 他 骨 馬 大的 好像正在 整個下午 , 盡述 二,白森 就要 魚 羚 5 每 比 0

×

生

0

是些 追憶 巳 逝 憶的時候, 祇 酸 而 現在, 能帶來 一難忘的往事,不平凡的經歷 淡忘。祇有在偶然間 一下從前的生活,緬懷一下舊地的風光 有一件事, 辣。 離開穗市 無限的惆悵;每一 何不祇是重想往 或者有人會藉夢 快十二年了。孩提 我却畢生難忘 ,憑着 個夢醒了 日的 境去找尋那逝去的時光 0 這些往 些紀念品 歡娛 時 帶 事, 甜 的 來無限的悲傷 意;忘掉昔日的苦惱 。當然,能 生活情形 這些 或者幾張舊時的 經 歷 , 多已 挑起人囘 0 然而 免不了包括着甜 0 隨 相片, 着時 ,每一 [億的, ,在我們 煩憂? 日 或 該 口

上五八开

n 民量失滿十歲,剛升上高小不久,級任老師便被調

初



現已發黃了的相片後面,寫着這樣的幾句: 白髮翻從鬢裏添 春意已隨流水去

閉着無聊,偶然整理一下舊時的相片,發現父親在十多年前寄給母親一

香城花落了, 筆墨生涯又一年

孩提時的生活,不禁又在我腦海中,掀起 溫夢幾時圓? 珠海爐峯兩掛牽 去如烟。 一陣陣的漣漪,很快就湧出

個的思潮。

X

X

個

的匯欵過活,日子也算不錯,然而,一家人此後便兩地分隔了。 在三樓。幾年後,父親便隻身來到香港謀生。我們靠着一點點租金和父親 幢名義上仍然是屬於我們的樓字,把地下鋪面和二樓租給別人,自己就住 九五〇年,父親結束了在上海廣州等地的生意後,一家人便搬到市東 我們本來住在廣州市的西關,在襁褓時期,沙面便是我常到的地方

臉龐,讓那垂楊遮擋耀眼的陽光。然後,剝着吃那苦中帶甘的蓮子,吃剩 拱橋下穿挿;摘枝熟了的蓮蓬 了的蓮蓬,就抛在湖裏,蕩起陣陣的波紋 還記得,我曾經和同學們,在烈士陵園內的湖上泛舟,在那荷花中 我因爲年紀小,非常好動。羊城的名勝古蹟,很多我都遊過 ,把小舟划近岸邊,讓那柳絲輕拂着我們的 0

然後,走到城樓外那幾尊巨大的古砲旁,跨在其中一尊上,遠眺越秀山的 伸手捉那黑墨的蝌蚪;弄濁了清澈的溪水,也驚散了悠然自得的小魚。倦 那在花間雙雙起舞的彩蝶,撲那在草叢偷偷探頭的蚱蜢。也曾在淺溪旁, 博物館。我總愛走到陳列古兵器的那 讓我們小坐,閒談;更有的是青山,泉水,鳥語,花香……… 有的是凉亭,石凳,可供我們歇脚; 我也曾和弟妹們,跟着舅舅到這園內遊玩,在草地上追逐,打滾;撲 越秀山的五層樓,也是我常到的地方。這是一座古老的城樓,後來改 也曾不顧大人的制止 ,伸手敲敲那曾經激勵過無數軍心的戰鼓 層樓裏, 有的是雕欄畫棟的軒,閣,台 看看那些刀槍劍戟,盾

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風光