INTRODUCTION

As of July 1, 2002 I have taken over the position of Head in the Department of Medicine. It is a privilege and an honour to hold this position. I would like to take this opportunity to thank my predecessor, Dr. G. B. John Mancini for leaving the department in such excellent shape. I would also like to extend my warmest appreciation to a wonderful faculty and staff who have been extremely supportive during the transition period.

I am pleased to provide this overview for the 2002 annual report on behalf of the UBC Department of Medicine. This report is also available on the internet at medicine.ubc.ca.

Overview

The UBC Department of Medicine provides research, teaching and clinical services related to the nature, cause and prevention of adult diseases. We are the largest Department in the Faculty of Medicine and we consist of sixteen divisions: Allergy and Immunology, Cardiology, Critical Care, Dermatology, Endocrinology, Gastroenterology, Geriatric Medicine, Internal Medicine, Hematology, Infectious Diseases, Medical Oncology, Nephrology, Neurology, Physical Medicine and Rehabilitation, Respiratory Medicine and Rheumatology.

People

As you read through this document you encounter the many different aspects of the Department and the accomplishments that have been achieved over the past year. I would like to take this opportunity to highlight some of the many wonderful achievements. Recruitment and retention have been a big part of our business in the past academic year.
We have hired 16 Clinical Instructors, 2 Assistant Professors, 3 Clinical Assistant Professors, and 1 Clinical Associate Professor. We have promoted 7 Faculty members. Our faculty received 19 CIHR Scholarship/Scientist awards, 18 Michael Smith Scholarships/Scientist awards and 28 Scholarship/Scientist awards from other peer reviewed agencies. These new hires will help us by expanding the research and teaching activities of our Divisions. The latter are particularly important as we approach the medical school expansion.

The Department extends its warmest congratulations to these outstanding individuals who received the following Departmental awards. The Fay R. Dirks Awards for Excellence in Teaching were awarded to **Drs. Jennifer Sunderwood (General Internal Medicine) and Robert Keyes (Neurology)**. The Martin M. Hoffman Awards for Excellence in Research were awarded to **Drs. Yu Tian Wang (Neurology) and Sammy Chan (Cardiology)**. The Donald M. Whitelaw Awards for Outstanding Grand Rounds were given to **Drs. Kamran Shojania (Rheumatology) and Sabrina Gill (Endocrinology)**. The Master Teacher Awards were given to **Drs. H. Grant Stiver (Infectious Diseases) and Barry O. Kassen (General Internal Medicine)**. In addition, members of the department were recognized by the faculty for their excellence in teaching and research. The Clinical Faculty Award for Excellence in Teaching was awarded to **Drs. Barry Kassen (General Internal Medicine) and Jim Busser (General Internal Medicine)**. The Teaching Award from the 3rd Year Class, UBC Medical School was awarded to our **Undergraduate Teachers on CTU's**. The UBC Distinguished Lectureship Award in Clinical Sciences was awarded to **Dr. Jerilynn Prior (Endocrinology)**.

The Department has established what has come to be known as the "Quarterly Kudos Report". This is a collation of achievements occurring throughout the year and it is highlighted at each Quarterly Meeting and included in the minutes of that meeting. It is worthwhile recapping some of 2002's highlights that reflect the national and international recognition of our faculty. **Drs. Peter Lansdorp (Hematology), John Schrader (Hematology) and Tom Ruth (Neurology)** were given CFI Awards. **Dr Julio Montaner (Infectious Diseases)** was named the Boehringer Ingelheim Distinguished Researcher. One of the Department's most important strategic initiatives is the creation of the Academic Enhancement Endowment Fund and the Academic Enhancement Fund competition process. These awards are provided in an effort to ensure greater protected research time for individuals undertaking meritorious research. This fund has taken on greater importance as the endowment has grown and as the awards have become more numerous. The recipients of the Academic Enhancement Endowment Fund awards in 2002 were **J. Dutz (Dermatology), J. Gill (Nephrology), S. Gill (Endocrinology), K. Humphries (Cardiology), K. Madden (Geriatric Medicine) and E. Yoshida (Gastroenterology)**. Recipients are termed Departmental Scholars.

**Administration**

The Department underwent full review in 2001. A number of concerns were raised by the reviewers. The Department has already addressed many of the issues identified and is well
positioned to take a leading role as an academic Department of Medicine in this country in the next decade.

**Research**

Once again the department was extremely successful in attracting research support. There was a 58% increase from $22,640,714 (2001) to $53,222,028 (2002). The department received $32,298,659 in peer reviewed grants and $20,923,549 in non-peer reviewed grants.

In order to move forward the department has implemented a strategic planning process in Research. The culmination of these plans within the next academic year will give the Department a framework for success during the term of the new Head.

**Education**

One of the most important roles of the Department in the next few years is stewardship as UBC embarks on its expansion of the medical school. We are currently developing a departmental strategy to address this important issue. We have established contacts with potential faculty members in Victoria and Prince George and we are beginning to send residents to distributed sites.

**Summary**

In closing I would like to take this opportunity to once again acknowledge the contributions of all Faculty and Staff and to thank them for their hard work, outstanding achievements and dedication to the success of the Department of Medicine.

Sincerely,

Graydon S. Meneilly, MD, FRCPC
Eric W. Hamber Professor & Head
UBC Department of Medicine
MISSION STATEMENT

The Department of Medicine

University of British Columbia

We, the members of the Department of Medicine of the University of British Columbia, will work with all our partners to provide the highest possible standard of excellence in patient care, teaching and research. We will pursue this mission while emphasizing open communication and ethical behaviour, and while recognizing that it is a privilege to provide responsible and innovative stewardship of human, financial and all other resources. We will always:

1. respect the dignity, individuality and needs of our patients,
2. strive to discover new knowledge that will advance state-of-the-art care,
3. ensure effective and innovative teaching of our students,
4. optimize our organization to promote both professional and personal fulfillment,
5. value the efforts and achievements of teams and individuals who work to face the challenges of modern medicine.

These activities will ensure the respect of our peer organizations and recognition as a world-class Department of Medicine.
UBC DEPARTMENT OF MEDICINE COMMITTEES
HOSPITAL HEADS, DIVISION HEADS AND PROGRAM DIRECTORS

HOSPITAL HEADS

Vancouver Hospital & Health Sciences Centre
Dr. Graydon S. Meneilly, Head of Medicine

St. Paul’s Hospital
Dr. James Russell, Head of Medicine

UBC DIVISION HEADS

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UBC DEPARTMENT OF MEDICINE EDUCATIONAL PROGRAM DIRECTORS

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<td>Continuing Medical Education</td>
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COMMITTEE FOR APPOINTMENTS, REAPPOINTMENTS, PROMOTIONS & TENURE

Chair: Jan-June: Dr. G.B.J. Mancini, Professor  
      Sept-Dec: Dr. G.S. Meneilley, Professor  
Co-chair: Jan-June: Dr. S. Pelech, Professor  
           Sept-Dec: Dr. J. Stoessl, Professor  
Administrative Secretary: Ellen Wong

January – June:  
Dr. S. Pelech, Professor  
Dr. J. Road, Professor  
Dr. K. Swenerton, Clinical Professor

January – Dec:  
Dr. V. Bernstein, Clinical Professor  
Dr. N. Buskard, Clinical Professor  
Dr. L. Lawson, Clinical Professor  
Dr. R. Levy, Associate Professor  
Dr. H. Lui, Associate Professor  
Dr. J. Shepherd, Clinical Associate Professor

Sept – December:  
Dr. K. Gelmon, Clinical Professor  
Dr. D. Ricci, Clinical Professor  
Dr. Y.T. Wang, Professor

This dedicated group of committed Departmental members is charged with facilitating the career advancement of our members while upholding consistent and rigorous standards as set out by UBC. As usual, this Committee invested a great deal of thoughtful energy to support the additions and promotions listed below. We are all very proud of the following:

NEW APPOINTMENTS

Adrian, Mark Adrian - Physical Medicine & Rehabilitation - Clinical Instructor  
Ayas, Najib – Respiratory - Assistant Professor  
Caswell, Sherri - General Internal Medicine - Clinical Instructor  
Davis, Anne - Dermatology - Clinical Instructor  
Forbes, Anastasia, Geriatric Medicine - Clinical Instructor  
Forrest, Donna – Hematology - Clinical Assistant Professor  
Grigg, Michael - Infectious Diseases - Assistant Professor  
Hong, Chih-Ho – Dermatology - Clinical Instructor  
Hughes, Barbara - Rehabilitation Medicine - Clinical Instructor  
Humphries, Karin – Cardiology - Assistant Professor
Javidan, Manouchehr – Neurology - Clinical Associate Professor
Kanani, Amin - Allergy/Immunology - Clinical Instructor
Kushner Kow, Janet - Geriatrics - Clinical Instructor
Lau, Herman - Physical Medicine and Rehabilitation, Clinical Instructor
Lavoie, Julye - Hematology - Clinical Instructor
Lear, Scott – Cardiology - Adjunct Professor
Martzke, Jeffrey Martzke - Neurology - Clinical Assistant Professor
Petraszko, Tanya – Hematology - Clinical Instructor
Shokravi, Mohammad Shokravi – Dermatology - Clinical Instructor
Sreenivasan, Gayatri – Hematology - Clinical Instructor
Straatman, Lynn – Cardiology - Clinical Assistant Professor
Traboulsee, Anthony - Neurology – Clinical Instructor
Tung, Stanley – Cardiology - Clinical Instructor
Underwood, Heather – Physical Medicine & Rehabilitation – Clinical Instructor

PROMOTIONS

Professor:
Brauer, Michael - Respiratory/Occupational Health
Feldman, Howard - Neurology
Lui, Harvey - Dermatology
FitzGerald, J. Mark - Respiratory

Associate Professor:
Dutz, Jan - Dermatology
Yoshida, Eric - Gastroenterology

Clinical Professor:
Buller, Chris - Cardiology
Ballem, Penny - Hematology
Penn, Ian - Cardiology
Levin, Adeera - Nephrology

Clinical Associate Professor:
Gin, Kenneth - Cardiology
Ignaszewski, Andrew - Cardiology
Adler, Reva - Geriatric Medicine
Clinical Assistant Professor:

Chi, Kim - Medical Oncology
Thiessen, Brian - Neurology
Mezei, Michelle - Neurology
Montessori, Valentina - Infectious Diseases

Emeritus:
Abboud, Raja - Respiratory, Professor Emeritus
Kim, Seung - Neurology, Professor Emeritus
Paty, Donald - Neurology, Professor Emeritus
Chaun, Hugh - Gastroenterology, Clinical Professor Emeritus
Klaassen, David - Medical Oncology, Clinical Professor Emeritus
McLeod, William Alistair - Dermatology, Clinical Professor Emeritus
TEACHING EFFECTIVENESS OFFICE

Dr. James Busser, Chair; Member; UBC Division of General Internal Medicine

Mrs. Jennifer Golinski, Administrator; Undergraduate Education, UBC Department of Medicine

Reports to:

Committee for Appointments, Reappointments, Promotions and Tenure

Functions:

1. Provides Faculty member with "Guidelines" for producing necessary back-up documentation to Teaching Dossier.

2. Meets with Faculty member to discuss necessary back-up documentation and process involved in review for promotion/tenure/reappointment.

3. Liaises with various program offices: Undergraduate, Postgraduate, Continuing Medical Education, Graduate Studies to obtain information regarding teaching effectiveness of candidate. Where necessary, requests additional peer review of teaching.

4. Reviews teaching dossier, back-up documentation, peer review and prepares draft report for Committee for Appointments, Reappointments, Promotions and Tenure.

5. Forwards draft report to Faculty member to ensure that important information has not been omitted.

6. Finalizes report and forwards to Committee for Appointments, Reappointments, Promotions and Tenure.

In the year 2001, the Teaching Effectiveness Committee prepared 24 letters on behalf of GFT and Clinical Faculty. Subsequent promotions for these faculty have included:

(3) Clinical Assistant Professors
(2) Clinical Associate Professors
(1) Clinical Professors
(2) Associate Professors
(3) Professors

In the year 2002 we met with another 20 faculty, and have prepared 19 letters to support their review and/or consideration of promotion.
DIVISION REPORTS
ALLERGY & IMMUNOLOGY

Dr. R. Robert Schellenberg,
Professor and Head

Faculty Members

Professor                  Schellenberg, Dr. Robert  St. Paul's
Clinical Associate Professor Mandl, Dr. Michael       St. Paul's
Clinical Associate Professor Stark, Dr. Donald         St. Paul's
Clinical Associate Professor Wong, Dr. HC George       VHHSC
Clinical Instructor        Kanani, Dr. Amin
Associate Member           Stephenson, Dr. Mary

Divisional Overview

Our small division is involved in providing clinical teaching in allergy and immunology at all levels. This includes major initiatives in patient education, CME programs for physicians, and elective rotations for residents and medical students. Despite not offering a training program at UBC, members are involved nationally in the nucleus committee of the Royal College as well as the examination committee for our subspecialty. This year members have been working hard to host a highly successful international meeting (World Allergy Congress, Sept. 7-12, 2003). We are delighted to have recruited Dr. Amin Kanani to our division and hope to add two additional members in the upcoming year.

Teaching

All members of the Division are actively involved in teaching students, residents, community physicians and lay persons.

Dr. Schellenberg provides a lecture to Medicine I students on the basic mechanisms of allergic inflammation as well as for the Pathology 521 course. All members actively participate in case-based subspecialty teaching seminars for Med III / IV students. All members provide individual office-based teaching of students who have chosen an elective rotation in the subspecialty. In addition, each member teaches in the Clinical Skills block for Med I students and conducts Bedside teaching sessions with Med II students. Major initiatives have been undertaken in community medical education to physicians, other health care professionals and to the lay public.

CME programs organized by Dr. George Wong through the auspices of the UBC Community Programs are given in various communities in British Columbia and the Northwest
Territories. These have received excellent evaluations and are highly appreciated by physicians in outlying areas. Each member contributes to these programs.

Dr. Michael Mandl has continued to expand his asthma education program through the Health Transition Fund to raise awareness and specific information in management of asthma in communities in BC. Five geographical sites have been targeted for evaluation of the effectiveness of this intensive education program to the public. This initiative has been recognized internationally and Dr. Mandl was invited to present his data to the American Academy of Allergy, Asthma and Immunology Meeting in New York in March 2002 and 2003.

Dr. George Wong has developed specific expertise in evaluation of complementary and alternative medicine practices and has presented a number of interesting papers on these aspects at meetings in the USA and Canada. Dr. Mandl and Dr. Schellenberg have been involved in video conference initiatives to provide information to the lay public in various communities in BC and provide a forum to answer questions from those participating at other sites.

**Research**

Dr. Mandl is continuing his studies on asthma education in communities throughout BC under a grant from the Health Transition Fund of the provincial government. This work entails delivery of education by qualified nurses spending time in these communities and evaluation of a number of health outcomes related to asthma. The American Lung Association has recognized the lack of any coordinated program in the USA and has invited Dr. Mandl to present his data and a demonstration of the software program developed to their education committee.

Dr. Stark is involved in a national study assessing the mechanisms of reactions to the influenza vaccine which occurred with relatively high frequency this last season. This study has been funded by Biochem Pharmaceutical Company. He is also the principal investigator (with Drs. Schellenberg, Mandl and Kanani) of a study evaluating a new detergent-treated intravenous immunoglobulin product for efficacy and safety (funded by Bayer Inc.) and a subcutaneous immunoglobulin product (funded by Aventis-Berhing).

Dr. Amin Kanani is the principal investigator on a new grant submission for a study evaluating the quality of life and health outcome parameters of patients with primary immunodeficiency using two different dosing regimens of IVIG to determine optimal dosing requirements.

Dr. Wong is conducting studies assessing the use and potential harmful effects of herbal and Chinese medicines.
Dr. Schellenberg is continuing studies of the mechanisms of excessive airway narrowing in asthma with emphasis on the role of degradative enzyme effects on extracellular matrix components in the airway wall using laser capture microdissection and molecular biologic techniques.

Members of the Division are involved in clinical trials involving topical steroids, long-acting beta agonists, anti-IgE antibody therapy and different immunoglobulin products.

**Clinical Services**

All members are actively involved in providing clinical consultative services in Allergy and Immunology to the community. Dr. Mandl has outreach clinics in Dease Lake, Stewart, Hazelton, Bella Bella, Campbell River, Parksville and Bamfield. Dr. Stark provides outreach clinics in Prince George and Sechelt. He has been active with the hospitals in establishing protocols for the management of latex allergy in hospitals. Dr. Wong has had a specific interest in complimentary medicine practices and the potential harmful effects of specific treatments.

**National and International Initiatives/Awards**

Drs. Stark and Schellenberg co-chair the local arrangements committee for the upcoming World Allergy Congress (International Congress of Allergy and Clinical Immunology) to be held in Vancouver in September 2003. All members are involved in this large undertaking. Dr. Schellenberg is a member of the International Program Planning Committee for this meeting.

Dr. Schellenberg is the president of the Canadian Society of Allergy and Clinical Immunology and is a member of the Royal College Examination Committee for this subspecialty.

Dr. Stark chairs the Nucleus Committee for Clinical Immunology and Allergy of the Royal College of Physicians and Surgeons of Canada.

Dr. Stark and Dr. Schellenberg are members of the Board of Directors for the Canadian Foundation for Allergy and Clinical Immunology, a charitable organization of which Dr. Stark was the founder.

All members are actively involved in local, national and international committees dealing with their areas of interest.
### CARDIOLOGY

**Dr. Charles R. Kerr, Professor and Head**

#### Faculty Members

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Divisional Overview

The Division of Cardiology consists of 28 faculty distributed over 2 programs at St. Paul’s Hospital and Vancouver Hospital and Health Sciences Centre. Dr. Charles Kerr has continued as the Sauder Family and the Heart and Stroke Foundation Chair in Cardiology, pending appointment of the new UBC Chair and Division Head. He has also continued in his role as Head, Division of Cardiology, St. Paul’s Hospital. Dr. Don Ricci has continued as the Division Head, Vancouver Hospital. The scope of programs in the Division has continued to expand with development of multiple highly specialized clinical and technical subspecialties. A new area of focus has been the development of a program in Cardiac Health Outcomes, with the recruitment of a researcher in Health Outcomes and acquisition of research space for other staff. The core postgraduate training program and subspecialty training programs have continued to expand.

Teaching

Undergraduate Teaching Program: The Division of Cardiology continues to provide substantial teaching contributions to the Cardiology Block, including the majority of the bedside teaching. Regular rotations of clinical clerks occur in the CCU and consultation services at both hospital sites. To better standardize clinical teaching, Dr. Saul Isserow has undertaken the task of providing introductory instruction for the entire undergraduate class on the method of clinical examination. The expansion of the undergraduate program will provide a particular challenge in providing adequate teachers and clinical opportunities. Dr. Harry Henning continues as the Undergraduate Education Director, aided by in coordination by the Division Head.

Postgraduate Education Program: Dr. Ken Gin continues to provide outstanding leadership as the Director of the Postgraduate Education Program in Cardiology. The academic part of the program, including formal bedside clinical teaching and Academic Half Day, has continued to improve. Dr. Karin Humphries has provided academic teaching in Epidemiology and Clinical Trial Design. The expectations of clinical call have been carefully coordinated with educational opportunities. The program has continued to expand, reaching nine, the largest number of trainees in the program’s history. Unfortunately there continues to be a lack of core funding, although the Division has raised funds to add an additional core funded fellow. Fortunately there have been a number of excellent offshore residents who have joined the program. There continues to be a close interaction with the Surgical Postgraduate Program, adding greater depth to the program. A major challenge remains the procurement of funding to increase the number of trainees to match the manpower needs in British Columbia and Canada.

Subspecialty Fellowship Training Programs: There has been a progressive increase in the number of subspecialty fellows performing clinical and research fellowships in the Division. There were 7 Interventional Fellows, 2 Electrophysiology Fellows, 1 Echocardiography Fellow, and 1 Heart Failure/Transplant Fellow undergoing training in the UBC programs.
Continuing Medical Education: The Division of Cardiology is very active in CME activities, taking part in a large number of local, national and international programs. The Division has participated in an annual general cardiology CME program. The Interventional Program has offered an annual CME program at Whistler. Dr. Ian Macdonald organized his annual course for family physicians as an upgrade of Internal Medicine skills.

Research

The Division of Cardiology has continued its strength in research, with 39 peer-reviewed publications, many abstracts, and multiple presentations at national and international meetings.

The research programs largely parallel the clinical programs that are presented here in a combined format. In addition, there has been strong emphasis on the establishment of the Health Outcomes Research Program.

Interventional Cardiology: The Interventional Cardiology Program consists of 7 individuals with coordinated activity at both hospital sites. The fellows have been very active in the performance of research. The program directors are John Webb and Ian Penn at St. Paul’s and Vancouver Hospital respectively.

Both Hospital sites provide comprehensive Interventional Programs, including acute intervention in myocardial infarction and cardiogenic shock. St. Paul’s Hospital has established a formal acute myocardial infarction program that is functioning well. Unique procedures are available at St. Paul’s Hospital including closure devices for atrial septal defects, patent foramen ovale, patent ductus arteriosis, and peri-valvular leaks. There are also programs in adult congenital intervention a new innovation such as brachy therapy, septal ablation, valvuloplasty, and great vessel stenting.

Research in the Interventional Program continues to be strong, with Vancouver based programs being very large enrollers in multi-centre clinical trials. The combined program has performed a study evaluating acetylcysteine in the prevention of contrast nephropathy, having randomized 450 patients at both sites.

Electrophysiology: The Electrophysiology program continues to be at the cutting edge of clinical and interventional electrophysiology, under the direction of John Yeung and with the addition of Stanley Tung. There has been an emphasis on developing the use of devices in patients with heart failure. Dr. Yeung has introduced a new mapping system to permit mapping and ablation of complex arrhythmias.

Dr. Anzhen Qi continues to work in the capacity of clinical associate. The Canadian Registry of Atrial Fibrillation, directed by Dr. Kerr, has enrolled an entirely new cohort of patients for follow-up, at 7 sites in Canada. This continues to be funded by Procter and Gamble with ongoing publications and presentations of abstracts. Dr. Kerr has presented the results of the Canadian Trial of Physiologic Pacing that has been submitted for publication.
**Healthy Heart Program:** The Healthy Heart Program continues to provide provincial leadership in the delivery of primary and secondary cardiac prevention. Dr. Chan continues his studies in brachial artery flow in collaboration with Dr. Mancini. Dr. Scot Lear has joined the Division and the Healthy Heart Program as an Associate faculty member, with his primary appointment as an Assistant Professor at Simon Fraser University.

**Echocardiography:** Echocardiography continues to provide outstanding imaging services at both sites. It also provides excellent teaching opportunities for cardiology residents and subspecialty fellows.

**Acute Cardiology Services:** Active acute cardiology programs are strong at both hospital sites, providing early intervention for patients with acute coronary syndromes. St. Paul’s Hospital has recently expanded its CCU program to accommodate balloon pumps, ventilators, and ventricular assist devices, all supporting the Heart Failure/Transplant Program. Drs. Ken Gin and Alan Rabinowitz have directed the programs at Vancouver Hospital and St. Paul’s Hospital respectively.

**Heart Failure/Transplant Program:** This program continues to grow very rapidly and was one of the largest transplanting programs in Canada in 2002. There is close collaboration between the medical and surgical teams. Recently a fellow has joined the program.

**Basic Research Program:** Dr. Simon Rabkin continues to evaluate factors related to cell death. Dr. Jaap Hamburger has developed an exciting collaborative program evaluating the potential of stem cells for regeneration of damaged myocardial tissue.

**Health Outcomes Research:** Great emphasis has been made on expanding the Health Outcomes Research potential. There is great opportunity for research utilizing the BC Cardiac Registries. The Division of Cardiology has successfully recruited Dr. Karin Humphries who has been successful in obtaining scholarship support as well as prestigious Grants in Aid. Many other members of the Division have contributed to Research and Health Outcomes.

**Ambulatory Services:** There are comprehensive clinics in Adult Congenital Heart Disease (PACH) Heart Failure/Transplant, Arrhythmias, Pacemakers, and General Cardiology.

**Administration**

Dr. Kerr has continued as Chair in the Division of Cardiology. The search for the new Sauder Family and Heart and Stroke Foundation Chair is ongoing with anticipation that a new Chair will be in place in July 2003.
Dr. Ricci continues in his role as Division Head at Vancouver Hospital as well as the Cardiovascular Program Director at that site. Ron Carere has assumed a role as Physician Leader, Heart Centre, at St. Paul’s Hospital.

Dr. Gin has continued in his role as Postgraduate Program Director.

**Special Honours and Awards**

Dr. Marla Kiess, President, Canadian Nuclear Cardiology Society  
Member, Board of Directors, Vancouver Symphony Orchestra

Dr. Charles Kerr, Vice Chair, Joint Organizing Committee, Canadian Cardiovascular Congress  
Scientific Chair, Inter-American Congress of Cardiology

Dr. Karin Humphries, Scholarship Award, Michael Smith Foundation.
CRITICAL CARE MEDICINE

Dr. John C. Fenwick
Clinical Assistant Professor & Head

Faculty Members

Professor Russell, Dr. James St. Paul's
Professor Walley, Dr. Keith St. Paul's
Assistant Professor Dodek, Dr. Peter St. Paul's
Assistant Professor Dorscheid, Dr. Delbert St. Paul's
Clinical Associate Professor Tsang, Dr. John St. Paul's
Clinical Assistant Professor Chittock, Dr. Dean VHHSC
Clinical Assistant Professor Fenwick, Dr. John VHHSC
Clinical Assistant Professor Forrest, Dr. David VHHSC
Clinical Assistant Professor Grant, Dr. Gregory St. Paul's
Clinical Assistant Professor Ronco, Dr. Juan VHHSC
Clinical Assistant Professor Keenan, Dr. Sean St. Paul's
Clinical Instructor Dhingra, Dr. Vinay VHHSC

Divisional Overview

The UBC Division of Critical Care Medicine is multidisciplinary in structure, with 13 faculty members, all qualified Critical Care Specialists from Medicine, Surgery and Anesthesia backgrounds participating in patient care at St. Paul’s, Royal Columbian and Vancouver Hospital. The two-year Critical Care Medicine subspecialty training program is fully accredited and accepts two trainees per year. The Research Program in Critical Care Medicine is comprehensive now spanning from molecular biology and cellular through large animal models, to clinical research in critically ill adults. The basic science research program is based in the Cardiopulmonary Laboratories at St. Paul’s Hospital and the Jack Bell Research Institute at Vancouver Hospital. The clinical research program is focused in the intensive care units of St. Paul’s and Vancouver Hospital.

Teaching

The University of British Columbia’s Adult Critical Care Medicine Training Program, under the direction of Dr. Juan Ronco, continued at the British Columbia Children’s, St. Paul’s, and Vancouver Hospitals. In 2002 there were 4 Trainees in the Adult Critical Care Medicine Fellowship Training Program. The ICU rotations for specialty residents from Medicine, Anaesthesia and Surgery continued to be highly rated at both St. Paul’s and Vancouver Hospital. Dr. Dean Chittock organized and moderated the Critical Care Track of the highly successful third annual Advances in Respiratory and Critical Care Medicine Conference held at Whistler, BC. Under the direction of Dr. Vinay Dhingra, the SCCM Fundamentals in
Critical Care Support Course received Departmental approval for incorporation into the core residency training program in 2003.

**Research**

The Research Program in Critical Care Medicine is comprehensive, now spanning from molecular biology and cellular through large animal models, to clinical research in critically ill adults. The basic science research program is based in the Cardiopulmonary Laboratories at St. Paul’s Hospital and the Jack Bell Research Institute at Vancouver Hospital. The clinical research program is focused in the Intensive Care Units of St. Paul’s and Vancouver Hospitals.

The basic science research program continues to investigate corticosteroid induced airway epithelial cell apoptosis (Dr. Dorscheid), immunomodulation in the treatment of sepsis and acute lung injury (Drs. Walley and Russell), abnormalities of gut blood flow and oxygen transport in septic shock (Dr. Phang), the role of cytokine signaling in ARDS, septic shock, and mesenteric ischemia (Drs. Walley and Phang), the molecular and cellular biology of leukocyte induced myocardial dysfunction in septic shock (Dr. Walley), and the role of endothelins and their antagonists in the pathogenesis of acute pulmonary embolism (Dr. Tsang).

The clinical research program remains strong at St. Paul’s and Vancouver Hospital with studies on glucose control and outcomes in the critically ill (Drs. Chittock, Dhingra, Dodek, Fenwick and Ronco), vasopressin in the treatment of septic shock (Drs. Russell, Walley and Chittock), genetics of systemic inflammatory response syndrome and shock in the critically ill (Drs. Russell and Walley), recognition and treatment of delirium in the ICU (Dr. Chittock), post cardiac arrest decision making (Dr. Forrest), the variation and determinants of processes, outcomes, and costs of critical care in B.C. (Drs. Dodek and Keenan), role of non-invasive ventilation in critical illness (Dr. Keenan), effect of patient positioning on oxygenation in ARDS (Drs. Chittock, Dhingra, Dodek, Fenwick and Ronco), perspectives of patients and caregivers at the end of life (Dr. Dodek), genetics of systemic inflammatory response syndrome after cardiopulmonary bypass (Drs. Walley and Russell), treatment of catheter related bloodstream infections (Drs. Dhingra and Ronco), neuromuscular dysfunction in the critically ill (Dr. Ronco), management of sedation (Dr. Chittock) and assessment of outcomes from pulmonary artery catheterization (Drs. Chittock and Russell), and epidemiology of organ dysfunction in sepsis and ARDS (Drs. Russell and Chittock).

**Clinical Services**

The ICU’s at St. Paul’s and Vancouver Hospital continued to experience an increase in occupancy and workload with over 1500 admissions at the two sites. Collaborative strategies to improve funding for critical care services at both sites continue to be developed. The Division continues to actively recruit an intensivist with a background in General Surgery to replace Dr. Andy Kirkpatrick who moved his practice to Calgary, Alberta.
Future Directions

In 2003, under the Direction of Dr. Dean Chittock, the Division will hold its first CME Conference at Whistler, BC, devoted entirely to Critical Care Medicine. Under the direction of Dr. Vinay Dhingra, the Division will be implementing the SCCM Fundamentals in Critical Care Medicine Support Course as part of the core residency training program. It is anticipated that the SCCM course will, in the future, become a successful CME activity within the Department of Medicine, attracting critical care providers from around the province. The Division continues to develop a strategy to strengthen its University Multidisciplinary Program.

Special Honors and Awards

Dr. Dean Chittock was an organizer and moderator, Critical Care Track, Advances in Respiratory and Critical Care Medicine Conference, Whistler, British Columbia.

Dr. Vinay Dhingra was appointed the Associate Training Program Director, Internal Medicine, and was an invited speaker at the Advances in Respiratory and Critical Care Medicine Conference, Whistler, British Columbia, the UBC Advances in Internal Medicine Conference, Vancouver, British Columbia, and the Northern and Rural BC Emergency Medicine Conference, Terrace, British Columbia.

Dr. Peter Dodek was an invited speaker at the Quebec Critical Care Educational Conference on Sepsis, Mt. Tremblant, Quebec, and the Bridges to Health Conference, Centre for Health Evaluation and Outcomes Sciences, St. Paul’s Hospital, Vancouver, British Columbia.

Dr. Del Dorscheid was promoted to Assistant Professor and was an invited speaker at the VanSeaPort Pulmonary Conference, Whistler, British Columbia, and the British Columbia Society of Respiratory Therapists Annual Meeting, Richmond, British Columbia.

Dr. Gregory Grant was an invited lecturer at the Hong Kong Society of Emergency Medicine.

Dr. Sean Keenan was an invited speaker at the Advances in Respiratory and Critical Care Medicine Conference, Whistler, British Columbia.

Dr. Terry Phang, an Associate Member of the Division, was an invited lecturer at the Canadian Association of General Surgeons Annual Meeting, London, Ontario, and the North Pacific Surgical Association Meeting, Seattle, Washington.

Dr. Juan Ronco was an invited speaker at the Victoria Spring Conference in Critical Care Medicine, Victoria, British Columbia and the British Columbia Society of Respiratory Therapists Annual Meeting, Richmond, British Columbia.
Dr. Jim Russell was an invited speaker at the 22nd International Symposium on Intensive Care and Emergency Medicine, Brussels, Belgium, the American Thoracic Society Annual Meeting, Atlanta, Georgia, the Toronto Critical Care Medicine Symposium, Toronto, Ontario, the Margaux Conference on Acute Lung Injury, Lisbon, Portugal, and the Advances in Respiratory and Critical Care Medicine Conference, Whistler, BC.

Dr. John Tsang was an invited lecturer at the University of Washington, Seattle, Washington, and Sherbrooke University, Sherbrooke, Quebec.

Dr. Keith Walley was an invited speaker at the 22nd International Symposium on Intensive Care and Emergency Medicine, Brussels, Belgium.
# Dermatology

**Dr. Harvey Lui**  
**Professor & Head**

## Faculty Members

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<th>Title</th>
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<td>Professor</td>
<td>Ho, Dr. Vincent</td>
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Divisional Overview

The Division of Dermatology’s mantra, “Care – Teaching – Research”, continues to drive our ongoing academic activities. In 2002, the Division consolidated its national and international strengths in skin cancer, hair biology, dermatologic surgery, photodermatology, immunology, dermatopathology, and genomics. The Division now provides the most extensive undergraduate medical dermatology teaching and the broadest range of postgraduate training opportunities in Canada. The Skin Care Centre—B.C.’s Centre for Dermatologic Science—serves as the academic hub for our division which is represented at four teaching hospitals: Vancouver General Hospital, St. Paul’s Hospital, BC Cancer Agency, and BC Children’s Hospital. The Division is also linked to dermatologists throughout BC who will take on greater roles in the expanded medical school.

Teaching

Undergraduate: The undergraduate program continues to thrive under the leadership of Dr. Jerry Shapiro, who has worked tirelessly with our Dermatology Undergraduate Committee to provide basic and clinical medical student teaching during the 2nd and 3rd year Integument and Clinical Dermatology weeks, which are mandatory for all 128 students. The 2nd year Integument Week course (FMED 422) makes extensive use of the web and consistently receives excellent student evaluations. The medical school expansion poses significant challenges to meeting the current curricular requirements for Dermatology, and the Division has already begun the process of engaging more community dermatologists in the Lower Mainland and the rest of the province to provide these one-on-one teaching experiences.

Postgraduate: Our 5-year resident training program in Dermatology received full accreditation by the Royal College of Physicians and Surgeons of Canada in 2002 thanks to the dedication of our Program Director, Dr. Jason Rivers and our administrative staff. Funding for our nine residents comes from provincial governments (B.C. and Manitoba) and non-profit hospital foundations. Our most recent dermatology graduate, Dr. Chih-ho Hong joined the Division of Dermatology and will lead our online education initiatives in addition to teaching at St. Paul’s Hospital Dermatology Clinics. All of our residents have presented their research at local, national, and international meetings this past year, and several have received awards from the American Contact Dermatitis Society, the Women’s Dermatology Society, and the Dermatology Times of Canada.

This year’s clinical fellows in dermatology were from Quebec, US, Singapore, Saudi Arabia, and China and underwent advanced training in Dermatologic Surgery, Hair, Photomedicine and Lasers, and Dermatopathology.

Experimental Medicine: The first two PhD’s in Dermatology were granted in 2002 to Dr. Jason Bush and Dr. K- John Cheung Jr. from the Skin Cancer Biology Laboratory. Both successful candidates are now post-doctoral fellows in San Diego and Seattle. Overall our graduate program expanded to 9 M.Sc./Ph.D. and 2 Post-Doctoral Fellows in 2002.
Continuing Medical Education: The Department of Medicine’s CME office coordinates RCPSC MAINCERT accreditation for Dermatology CME events including our Weekly Grand Rounds, Community Journal Clubs, and Dermatology Research Day. CME courses sponsored by the Division of Dermatology include:

- Spring Dermatology Update for Family Physicians (June 8-9, 2002)
- Dermatology Update 2002 (October 17-20, 2002)

The Division hosts Community Journal Clubs and Clinical Meetings in conjunction with the BC Dermatology Society.

Research

This year’s UBC Dermatology Research Day on March 16, 2002 featured 22 original papers organized under the themes of Skin Cancer, Hair, Immunology, Photobiology, and Educational Research. The principal organizers for this event, Dr. Gang Li and Dr. Jan Dutz, have been very successful in putting together an interactive program that includes participation by medical students, graduate students, residents, fellows, nurses, and faculty in a highly collegial atmosphere. Feedback from participants indicated that there was ample research and interest within the Division to hold this event on an annual basis.

Dr. Brian Kunimoto was the National Chairman for the Canadian Association of Wound Healing Conference in November 2002. Dr. Youwen Zhou received the highest possible grant from the Canadian Dermatology Foundation and also a multi-year VGH Scholar Award to support his work on dermatologic genomics. All of our research laboratories continue to attract graduate students and fellows from around the world. Dr. Jan Dutz was made a Scholar of the Department of Medicine through the Academic Enhancement Fund Award.

Clinical Services

Members of the Division of Dermatology worked hard to maintain patient service levels in the face of budgetary restraint within the teaching hospitals. The number of clinical dermatologists is no longer sufficient to keep up with retirements and the growing need for medical skin care. In response to this the Division of Dermatology has been working towards increased resident training slots and the retention of basic clinical dermatology within the undergraduate medical curriculum. We have been very fortunate to have been able to draw on community dermatologists to provide clinical electives in 2002.

Special Honours and Awards

Dr. David McLean, Honorary Alumnus Award, UBC Medical Alumni Association

Dr. Harvey Lui, Promotion to Professor

Dr. Jan Dutz, Promotion to Associate Professor with grant tenure, and designation as Departmental Scholar, Department of Medicine.
Dr. Youwen Zhou, Research Scholar, VGH Research Affairs Award

Dr. Jason Rivers, Golden Triangle Award, American Academy of Dermatology for sun awareness education.

Dr. Jerry Shapiro, election as President, North American Hair Research Society, and appointment as President, Canadian Society for Investigative Dermatology.

Dr. Robert Coupe published “Illustrated Editions of the Works of William Morris in English: A Descriptive Bibliography”.

Dr. Chih-ho Hong, Appointment as Clinical Instructor and recipient of Faculty Development Initiatives Grant on “Internet Based Self-Directed Learning and Evaluation of Medical Students”.

Dr. Mohammed Shokravi, Appointment as Clinical Instructor

Dr. Haishan Zeng, special award from the Canada China Society of High-Tech Enterprise Development.
ENDOCRINOLOGY

Dr. David Thompson,
Clinical Assistant Professor & Head

Faculty Members

Professor Prior, Dr. Jerilynn VHHSC
Assistant Professor Kendler, Dr. David VHHSC
Clinical Professor Wilkins, Dr. Graeme VHHSC
Clinical Associate Professor Tildesley, Dr. Hugh St. Paul's
Clinical Assistant Professor Bebb, Dr. Richard St. Paul's
Clinical Assistant Professor Dahl, Dr. Marshall VHHSC
Clinical Assistant Professor Elliott, Dr. Thomas VHHSC
Clinical Assistant Professor Kreisman, Dr. Stuart St. Paul's
Clinical Assistant Professor Thompson, Dr. David VHHSC
Clinical Assistant Professor Wallace, Dr. Clarissa VHHSC
Clinical Instructor Gill, Dr. Sabrina St. Paul's
Clinical Instructor Johnson, Dr. Michelle St. Paul's
Clinical Instructor Kong, Dr. Jason VHHSC
Clinical Instructor Mase, Dr. Robert St. Paul's
Clinical Instructor Sirrs, Dr. Sandra VHHSC
Associate Member Begg, Dr. Iain
Associate Member Bondy, Dr. Greg
Associate Member Kitson, Dr. Hilary
Associate Member Rothstein, Dr. Ralph
Associate Member Stewart, Dr. Laura
Adjunct Professor Finegood, Dr. Diane
Professor (Emeritus) Dawson, Dr. Keith
Associate Professor (Emeritus) Cairns, Dr. Alexander
Associate Professor (Emeritus) Thorson, Dr. Stephen

Divisional Overview

The UBC Division of Endocrinology continued to expand with a total of 14 members now on active staff and Vancouver and St Paul's Hospitals. The division runs specialty clinics in diabetes, lipids, adult metabolic disease, osteoporosis, women's health, HIV and metabolic disease, thyroid, diabetes in pregnancy and pituitary as well as providing general endocrine coverage to inpatients. The division has active research interests in all of the specialty clinics. Both hospital divisions have a fundraising program to help with research and educational efforts.
Teaching

Dr. Sirrs is the director for postgraduate education and Dr Elliott for undergraduate education.

Undergraduate teaching activities include the fundamentals of medical science (Dr. Bondy) as well as all members participating in scheduled block teaching for endocrinology and elective students rotating through the division.

Internal medicine residents rotate through the division in 4 - 8 week blocks. They receive exposure to inpatient consultations, outpatient clinics and office practice and weekly formal teaching sessions.

The division had two fellows in 2002. One successfully completed his American and Canadian examinations and returned to his home country to practice. Dr. Michelle Fung was accepted into the Clinical Investigator Program and is completing a Master's in Health Care and Epidemiology. She is also receiving special training in islet cell transplantation.

The division has selected two fellows to begin in July 2003.

Many division members participate in continuing and community medical education activities.

Research

The division is engaged in a number of research activities.

The major new initiative is the establishment of an islet cell transplantation program at Vancouver Hospital. This is a joint program with the Department of Surgery and should keep the University at the forefront of this area for many years. It will be run as a research study aimed at identifying which patients with type 1 diabetes are best suited for an islet cell transplant.

Division members at both hospitals are involved in a large number of clinical trials in diabetes. They focus on diagnostic tools, therapeutic agents, natural history and prevention of complications. A number of lipid studies are closely linked with the diabetes research.

The area of women's health continues to grow with a number of studies being performed by Drs. Prior, Kendler and Gill.

Dr. Sirrs continues to be active in adult metabolic disease research.

Dr. Johnson joined our division in 2002 and will be developing research in pituitary along with Dr Wilkins.
Clinical Services

The division continues to expand clinical activity with the increasing prevalence of endocrine disease and the increasing recognition of the need for specialized care to ensure optimal outcomes.

One noteworthy initiative is the development of an acute cardiac diabetes service coordinated by Dr. Dahl at Vancouver Hospital and Dr. Gill at St Paul's. The goal of this service is to improve clinical outcomes and reduce length of stay.

Future Directions

The division plans to increase its research activities in the areas described. The islet cell program presents a unique opportunity to make major advances in the treatment of type 1 diabetes. We hope to be able to continue to recruit new members to help achieve these goals. We need to increase the number of endocrinologists being trained to meet the needs of the province. This will require increased funding that may be provided with the medical school expansion. A major challenge will be to provide endocrinology teaching to an expanded number of students, especially if they are in a number of areas around the province.
GASTROENTEROLOGY

Dr. Urs Steinbrecher,
Professor & Head

Faculty Members

Professor
Steinbrecher, Dr. Urs
VHHSC

Professor
Freeman, Dr. Hugh
VHHSC

Associate Professor
Anderson, Dr. Frank
VHHSC

Associate Professor
Yoshida, Dr. Eric
VHHSC

Assistant Professor
Salh, Dr. Baljinder Singh
VHHSC

Clinical Professor
Halparin, Dr. Lawrence
St. Paul's

Clinical Associate Professor
Carr, Dr. Donald
VHHSC

Clinical Associate Professor
Kwan, Dr. Peter
VHHSC

Clinical Associate Professor
Weiss, Dr. Alan
VHHSC

Clinical Assistant Professor
Amar, Dr. Jack
VHHSC

Clinical Assistant Professor
Enns, Dr. Robert
St. Paul's

Clinical Assistant Professor
Erb, Dr. Siegfried
VHHSC

Clinical Assistant Professor
Gray, Dr. James
VHHSC

Clinical Assistant Professor
Whittaker, Dr. John
St. Paul's

Clinical Instructor
Fishman, Dr. Martin
Richmond

Associate Member
McManus, Dr. Bruce

Visiting Professor
Gomez-Munoz, Dr. Antonio

Associate Professor (Emeritus)
MacDonald, Dr. Walter

Clinical Professor (Emeritus)
Bogoch, Dr. Abraham

Clinical Professor (Emeritus)
Chaun, Dr. Hugh

Clinical Professor (Emeritus)
Stordy, Dr. Stanford

Divisional Overview

The UBC Division of Gastroenterology consists of 15 faculty members who are located at Vancouver Hospital, St. Paul's Hospital, Vancouver Cancer Centre, and BC Transplant Society. There are active gastroenterology inpatient services at Vancouver General Hospital and St. Paul's Hospital as well as a liver transplant unit at Vancouver General Hospital that provide tertiary and quaternary-level care to patients from across the province. The ambulatory care facilities include a large hospital-based clinic at VGH as well as private offices. There are excellent endoscopy units at Vancouver General Hospital, St. Paul's Hospital, and at UBC Hospital. The two year subspecialty gastroenterology training program currently has 3 registered trainees, with 2 more starting in July 2003. The basic research emphasis of the division is on signal transduction in inflammation and GI cancer, and there is a very active multifaceted program of clinical research and clinical trials.
Teaching

Undergraduate: The Division continues to play a central role in the development and implementation of the GI block in phase II of the undergraduate curriculum. The Division is recruiting a new Undergraduate Program Director who will take over as chair of the GI Block in P2P2 of the medical school curriculum, and will coordinate all of the undergraduate educational activities in GI effective July 2004.

Postgraduate: The GI training program is directed by Dr. Eric Yoshida, and received Full Approval in a recent survey by the Royal College. The division is proud of the excellent trainees in or accepted into the program (Dr. Alnoor Ramji 2001-3, Dr. Nazira Chatur 2002-4, Drs. Stacy Shapira and Jaber Al-Ali for 2003-5). Dr. Jun-Kee Ho was selected as the UBC/Fujisawa Transplant Fellow and will start his training with the liver transplant team in July 2003. Dr. Hamad Al-Othmani will complete a therapeutic endoscopy/hepatology fellowship in July 2003.

Experimental Medicine: Dr. Bill Salh coordinates the GI components of the Experimental Medicine Program. There are currently 5 graduate students from the GI Division registered in Experimental Medicine and one post-doctoral fellow.

Continuing Medical Education: In 2002, the GI Division organized two UBC-accredited CME courses, the seventh Annual Digestive Disease Week Review Course for subspecialists, and the second UBC GI Update for generalists. Both were well attended and highly rated events. As well, Division members also participated in several other local CME events including, the ACP Internal Medicine course and the St. Paul's review course for family physicians.

Research

Division members generated more than 35 publications in peer-reviewed journals in 2002. Several division members including Drs. Salh and Steinbrecher conduct active basic research programs supported by national and regional granting agencies (CIHR, HSFC, CCFC, and Canadian Society for Intestinal Research). The Division is expanding clinical research and clinical trials activities, and is involved in more than 30 trials in a variety of clinical areas including viral hepatitis, liver transplantation, inflammatory bowel disease, esophageal reflux disease, peptic ulcer disease, and functional bowel disorders. As a result of recruitment initiatives over the past year, we have attracted three new clinician-scientists to the division's faculty who will build on existing fundamental and clinical research strengths in the division.

Clinical Services

Developments in 2002 include establishment of a core resource centre for the B.C. Hepatitis Program in collaboration with BCCDC. Renovation of space for this program was recently completed adjacent to the existing VGH GI outpatient clinic in Willow Chest Centre and the
educational and research activities of the program have been relocated to this new facility. Reconfiguration of acute services at UBC Hospital has resulted in a shift of inpatient GI medical activities to VGH, and in expansion of the outpatient endoscopy activities in a new endoscopy unit at UBCH. Over the past year there has been expansion of the living-related donor liver transplantation program, and of endoscopic ultrasound as an important new diagnostic tool. As well, the VHHSC GI Division has taken over responsibility for esophageal motility testing as a result of reorganization of the Physiology Centre. Planning is underway for an integrated endoscopy data system that will provide enhanced report generation including image documentation, and will serve as a platform for clinical research and quality assurance/outcome analysis. Relocation and reconfiguration of acute inpatient units into the Jim Pattison Pavilion at VGH will integrate the GI ward with General Surgery. This will provide an opportunity for seamless multidisciplinary care of patients with complex GI and hepatobiliary disease, as well as an outstanding platform for undergraduate and postgraduate medical education.

Administration

The division has enjoyed effective clinical leadership from the respective hospital heads at VHHSC and St. Paul's Hospital, as well as academic leadership at the level of the UBC Division. The administrative effectiveness of the UBC and VHHSC Divisions is largely due to the dedication and skill of Elaine Grant, the Divisional Administrator. Significant contributions have been made by Dr. Yoshida as Director of the GI Training program, and by Dr. Enns as Associate Director of the training program. Dr. Yoshida also served ably as Medical Director of the Liver Transplant Program and Coordinator of Clinical Research, while Dr. Salh made important contributions as the Division's Coordinator to the Experimental Medicine Program.

Future Directions

The division is eagerly awaiting the arrival of several outstanding faculty recruits who will build on existing strengths to reinforce and expand the academic capacity and productivity in Gastroenterology. The Division has developed a strategic plan for clinical care, research and teaching in Gastroenterology that will be implemented once the requisite support from an academic funding contract from the Vancouver Coastal Regional Health Authority and UBC is in place.

Special Honours and Awards

Several division members serve on executive committees of professional organizations, editorial boards of medical and scientific publications, and on grant review committees of major peer-reviewed granting agencies including CIHR, CCCF, CASL, and HSFC.
GENERAL INTERNAL MEDICINE

Dr. Iain Mackie,
Clinical Professor & Acting Head

Faculty Members

Professor Page, Dr. Gordon VHHSC
Professor Wright, Dr. James (Jim) VHHSC
Associate Professor Rangno, Dr. Robert St. Paul's
Associate Professor Studney, Dr. Donald VHHSC
Assistant Professor Palepu, Dr. Anita St. Paul's
Clinical Professor Mackie, Dr. Iain VHHSC
Clinical Associate Professor Chan, Dr. Victor Royal Columbia
Clinical Associate Professor Kassen, Dr. Barry VHHSC
Clinical Associate Professor Kennedy, Dr. James St. Paul's
Clinical Associate Professor Onrot, Dr. John (Jake) St. Paul's
Clinical Assistant Professor Arseneau, Dr. Richard St. Paul's
Clinical Assistant Professor Ayotte, Dr. Brian Sushwap Lake
Clinical Assistant Professor Busser, Dr. James VHHSC
Clinical Assistant Professor Dunne, Dr. James VHHSC
Clinical Assistant Professor Magee, Dr. Laura BCW
Clinical Assistant Professor Ong-Lam, Dr. May St. Paul's
Clinical Assistant Professor Perry, Dr. Thomas VHHSC
Clinical Assistant Professor Wakefield, Dr. Robert VHHSC
Clinical Instructor Auersperg, Dr. Edward Pitt Meadows
Clinical Instructor Broder, Dr. Sarah Penticton
Clinical Instructor Caswell, Dr. Sherri VHHSC
Clinical Instructor Chan, Dr. Alex Chong Hen VHHSC
Clinical Instructor Hawley, Dr. Phillipa VHHSC
Clinical Instructor Kincade, Dr. David Kamloops
Clinical Instructor McKay, Dr. Rhonda St. Paul's
Clinical Instructor Purkiss, Dr. Susan BCW
Clinical Instructor Roberts, Dr. James VHHSC
Clinical Instructor Sunderwood, Dr. Jennifer VHHSC
Clinical Instructor Tai, Dr. Charles
Clinical Instructor Wong, Dr. Steven VHHSC
Associate Member Birmingham, Dr. Carl Laird St. Paul's
Associate Member Zaidel, Dr. Patrick
Professor (Emeritus) Schulzer, Dr. Michael VHHSC
Associate Professor (Emeritus) Sanders, Dr. Harvey D
Clinical Professor (Emeritus) Johnson, Dr. Archibald
Clinical Professor (Emeritus) McDonnell, Dr. C. Edward
Clinical Professor (Emeritus) Paige, Dr. Bruce
Clinical Associate Professor (Emeritus) Rennie, Dr. Charles
Divisional Overview

The Division of General Internal Medicine at UBC is a large multidisciplinary group of physicians who have a common interest and expertise in the practice of General Internal Medicine. The Division has a large number of full-time members, who practice General Medicine in the UBC Teaching Hospitals, plus part-time members who are either subspecialists in other areas of Internal Medicine or community internists.

This year saw a significant growth in the Division through the growth of community Internal Medicine rotations being offered through the UBC Internal Medicine Residency Training Programme, led by Dr. Steve Wong. Starting in July, 2003, all second year residents will undertake community rotations in various locations throughout the province, including Prince George, Victoria, Nanaimo, Kamloops, Sechelt and Kelowna. Physicians at these sites are currently, or will become, members of the Division. New Division members included Dr. Jane McKay (SPH), Dr. Ken Cunningham (SPH) and Dr. Nadia Khan (SPH).

Division members continue to contribute to General Internal Medicine at a national level. Dr. Barry Kassen continued his role as Head of the Internal Medicine Oral Examination Board and a member of the Internal Medicine Specialty Committee at the Royal College of Physicians and Surgeons. Dr. Iain Mackie also sits on the Specialty Committee and continues as the Chair of the Canadian Association of Internal Medicine Program Directors. He is also a member of the Organizing Committee for the Rocky Mountain Internal Medicine Conference. Other Division members sitting on the Royal College Examination Board include Drs. Juan Ronco and Rose Hatala.

Teaching

Teaching is one of the main pillars of Divisional activity at both St. Paul’s Hospital and Vancouver Hospital. Members teach in the in-patient, out-patient and “academic” settings of the Division, providing teaching services to undergraduate and postgraduate Internal Medicine trainees on the medical Clinical Teaching Units, in out-patient clinics and at teaching rounds of the Department of Medicine.

Division members provide clinical care and involvement in a variety of teaching units at UBC and the Teaching Hospitals. Dr. Pippa Hawley is the education coordinator for palliative care for the Division of Palliative Care, and is helping to develop training sites for the teaching of palliative care in Kelowna and the lower Fraser Valley. Drs. Jim Busser, Jim Dunne and Tom Perry continue to act as hospital directors for the undergraduate clinical clerkship. Drs. Mark Roberts, Vinay Dhingra, Barry Kassen and Iain Mackie sit on the Postgraduate Training Programme Committee of the Department. This year, Dr. Dhingra was appointed as Associate Programme Director for the Internal Medicine Residency Training Programme.
In summary, Division members contribute significantly to the academic fabric of the Department and Faculty of Medicine at UBC. Members make a strong contribution in areas of teaching, research and administration at the local, provincial and national levels.

Research

On the research front, Dr. Nadia Khan joined the Division from the University of Calgary, where she completed her research training. Dr. Khan has special interests in population health and perioperative medicine, and will join the research and clinical group at St. Paul’s Hospital, and will work with the Perioperative Medicine group at VHHSC. Divisional strength in the area of Evidence Based Medicine is demonstrated by the role of the Clinical Pharmacology group, led by Dr. Jim Wright, in the Cochrane Collaborative. The Cochrane Hypertension group, based here in Vancouver, contributed 8 new protocols and 2 systematic reviews to the Cochrane Library. Dr. Don Studney was a member of the Cochrane Renal Group. He was also an invited speaker at the 38th Annual Meeting of the European Association for the Study of Diabetes, in Budapest, Hungary. Dr. Studney continues to receive significant research grants in the area of diabetes and diabetic neuropathy. Dr. Laura Magee is the principal investigator for a CIHR-funded Control of Hypertension in Pregnancy Study. She was also the invited speaker at two meetings related to maternal medicine. Dr. Jake Onrot was an adjudicator at the University of Saskatchewan Resident Research Day. Dr. Laird Birmingham is Director of the Eating Disorders Programme for the Province of BC, supported by Dr. Jim Kennedy and Dr. Jane McKay.

Special Honours and Awards

Division members continued their string of teaching awards. Dr. Jake Onrot won the Howard B. Stein Master Teaching Award at St. Paul’s Hospital. Dr. Jennifer Sunderwood won the Faye R. Dirks Award for Teaching Excellence, for junior faculty teaching. Dr. Jim Busser won the UBC Clinical Faculty Award for Teaching. Dr. Barry Kassen won the UBC Clinical Faculty Award for Excellence in Teaching and the Master Teacher Award at St. Paul’s Hospital. Dr. Anita Palepu won the Teacher of the Year Award from the St. Paul’s Hospital Department of Family Medicine. Dr. Ric Arseneau also was a winner of the Howard B. Stein Master Teacher Award at St. Paul’s Hospital.
**GERIATRIC MEDICINE**

*Dr. Graydon S. Meneilly,*  
*Professor & Head*

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**Faculty Members**

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<tr>
<th>Position</th>
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**Divisional Overview**

The Division of Geriatric Medicine currently has 12 faculty at PHC and VHHSC: 9 Clinical and 3 GFT, and 6 faculty in distributed sites. It has a wide range of clinical services spanning all sites of Providence Health Care and VHHSC, including active geriatric consultation services, in-patient acute care for elders (ACE), geriatric activation and assessment beds, geriatric day hospitals and multiple outpatient clinics. Clinical services are also provided in the community through outreach and through one faculty member who works primarily with community provider teams. The division's major area of research emphasis is in health service research although there are active research programs in diabetes, dementias, osteoporosis and cardiovascular disease.

**Teaching**

**Undergraduate:** Dr. Janet Kushner-Kow has taken over from Dr. Maria Chung as the Physician Representative for the undergraduate teaching program for the UBC Division of
Geriatric Medicine. She is currently developing an undergraduate curriculum for second and third year bedside teaching in Geriatric Medicine and is also actively involved in taking on the Brain and Behaviour Week in PBL. It is anticipated that our undergraduate teaching workload will probably increase with the medical school expansion particularly in view of the fact that geriatrics is meant to be a focus of the island medical program. Dr. Reva Adler continues to expand a network of rural General Internal Medicine Selectives throughout British Columbia.

**Postgraduate:** Under the leadership of Dr. Larry Dian our training program continues to be actively involved in the teaching of internal medicine residents and fellows in the principles of the care of the frail elderly. Our division members also participate actively in the clinical teaching units and noon rounds for medical residents. In the last academic year Dr. Chris Rauscher has developed an ethics education curriculum for community health services staff and is also involved in training of fellows in regard to service integration between the hospital and the community. Drs. Reva Adler and Janet Kushner-Kow are the recipients of a grant from the Strategic Teaching Initiative to create an inter-professional educational programme to be used in universities and communities throughout British Columbia.

**Continuing Medical Education:** In 2002 the Division members were active participants in various CME events which included programs in osteoporosis, falls and fractures, dementia, diabetes and other topics. The Division Seminar program takes place weekly during the academic year, ably directed by Dr. Maria Chung during the first six months and Dr. Roger Wong from September onwards. A highlight for Division members was the Geriatric Medicine Advance 2002 held in Whistler in September.

**Research**

Dr. Meneilly is the Chair of the Grant Review Committee for the Canadian Diabetes Association and is also a member of the board of the new CIHR Institute for Healthy Aging. He is also a member of the Steering Committee for the Canadian Longitudinal Study on Aging, the first longitudinal study of its kind in Canada. Dr. Roger Wong continues to conduct research and health education in geriatrics. He is currently completing a randomized controlled trial of teaching geriatric concepts to physicians. He is also involved in clinical outcomes research on the impact of age on hospital utilization, and optimizing care for acutely ill seniors in ACE units. Dr. Beattie is involved in multiple other research projects related to dementia and Chairs the Social and Psychological review panel for the Alzheimer Society of Canada. Dr. Reva Adler has completed her Masters degree in Health Care and Epidemiology at the University of Washington. She recently published a book entitled "Doorway Thoughts: Cross-Cultural Health Care for Older Adults" and a book chapter on a public health approach to genocide prevention. She will be conducting an outcome evaluation for the STI inter-professional module series in the Spring and Fall of 2003. Dr. Adler has represented Canada at a number of international conferences on genocide in the past two years. She is the Principal Investigator on a grant from the Vancouver Foundation to investigate comparative quality of for-profit and not-for-profit residential care facilities in
British Columbia. Dr. Marilyn Malone is actively involved in collaboration with colleagues at SFU and UBC in developing a falls prevention program. Drs. Malone and Hill have recently published a paper on the effectiveness of the geriatric day hospitals. Dr Hill has initiated an innovative project on management of elderly patients in the emergency room. Data collection for this project is underway. The analysis will focus on the impact of the intervention on hospital admission rates. Dr. Janice Menezes continues her research on the Utility of Pharmanet Information for elderly patients admitted through the emergency room. Dr. Ken Madden has assumed a faculty position this year and is beginning to develop his research program in cardiovascular physiology and pathophysiology in aging. He received an award from the Academic Enhancement Fund within the Department of Medicine and was made a departmental scholar. He also received a CIHR post-doc fellowship. Dr. Larry Dian and Dr. Grady Meneilly are involved in an interdisciplinary research and service delivery program to link the academic expertise of the university and "rural and remote" geriatric medicine program working with colleagues at UNBC utilizing the STI initiative. Dr. Janet Martini and her colleagues in Providence Health Care are developing a research focus in performance review and continuous quality improvement with ongoing evaluation of service delivery.

**Clinical Services**

At both Providence Health Care and Vancouver Hospital clinical activities continue to increase. At St. Paul's hospital the 8-bed Geriatric Assessment Unit continues to play an active role in providing comprehensive care to frail elderly patients. The volume of geriatric consultation continues to increase and out-patients services continue to expand. The Division runs a 10-bed Geriatric and a 20-bed Geriatric Day Programme at Mt. St. Joseph's Hospital. There is a 14-bed Geriatric Re-activation Unit, a 15-bed Geriatric Assessment and Treatment Unit, a Geriatric Medicine Clinic and a 20-position Geriatric Day Program at St. Vincent's. At the Vancouver Hospital the volume of in-patient consults has also increased. We have recently implemented a Geriatric Triage Unit which provides more appropriate management and discharge planning patients for elderly patients in the emergency room. We are in the process of developing a geriatric assessment unit with a focus on regional and provincial needs which operate at the UBC hospital site. We will be moving the ACE unit into the tower in the next few months. This will allow for elderly patients to be managed in a more optimal environment than has presently been the case. The Division is actively involved in patient assessment and management at the VGH STAT Centre and will participate in planning future community-based GEM services in Vancouver Community Health Services.

**Administration**

The leadership Structure at Providence Health Care has undergone a significant change over the past year. Dr. Maria Chung is now Physician Operations Leader for Geriatric Medicine at the St Paul's site and Dr. Janice Menezes performs the same role at the St. Vincent's site. Dr. Janet Martini is the Acting Physician Operations Leader at Mount St Joseph's Hospital.
She has been appointed as the Physician Program Director for the Elder Care Program for PHC. This includes Geriatric Medicine, Geriatric Psychiatry, Geriatric Rehabilitation and Residential Care. Dr. Martini continues in her role as the PHC Division Head for Geriatric Medicine. At VGH Dr. Meneilly has recently been appointed as the Chairman for the Department of Medicine at both VHHSC and UBC and Dr. Larry Dian has been made VHHSC Division Head for Geriatric Medicine. Dr. Reva Adler is the Medical Director of the VGH STAT Centre. Dr. Amanda Hill continues in her role as Medical Director, Community and Specialty Medicine. Dr. Roger Wong continues his roles as Medical Director, Geriatric Consultation Program and Medical Manager, ACE unit at VGH.

**Special Honours and Awards**

Dr. Reva Adler was recently promoted to Clinical Associate Professor. She was recently selected as a finalist for the 2003 Fulbright Scholar competition and hopes to conduct genocide prevention research in Rwanda in 2003-2004.

Dr. Graydon S. Meneilly, Chair, Department of Medicine VHHSC and UBC
HEMATOLOGY

Dr. Allen C. Eaves,  
Professor and Head

Faculty Members

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<tr>
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Divisional Overview

The UBC Division of Hematology encompasses 17 staff based at the Vancouver Hospital, the British Columbia Cancer Agency and St. Paul's Hospital. In 2002, laboratory research programs brought in external peer-reviewed operating support of $1.7 million and CFI equipment funds of $3.7 million. Funding for clinical trials research was BCCA $3,190,587; VGH $194,987; SPH $127,759. Training and patient care activities remained of very high quality and academically productive with a total of 31 peer-review publications and 2 review articles or book chapters. Trainees in all components of the Division included 2 hematology fellows, 5 Leukemia/BMT fellows, 14 laboratory post-doctoral fellows and 8 graduate
students. Spin-off companies (StemCell Technologies Inc., StemSoft Software Inc. and Malachite Management Inc.) employed over 130 individuals, brought in $20 million in export revenue to the province and provided approximately $200,000 in research support to the Division.

Teaching

Undergraduate: This was the 5th year of the Problem Based Learning course (Blood & Lymphatics Block) which was coordinated by Dr. Charles Li and taught by Drs. Donna Hogge, Charles Li, Stephen Nantel and Linda Vickars.

Postgraduate: A total of 26 Residents in the Internal Medicine Program took hematology-based electives during the past year. These were typically two month blocks spent on the Hematology Consultation Service at VGH or St. Paul’s Hospital.

Subspecialty Training: Two General Hematology fellows were based at VGH. Rotations included the General Hematology Consultation Service, Leukemia/BMT Service, Hematopathology, Blood Transfusion Service, Cell Separator Unit and out-patient clinics. Rotations were also taken at the BCCA (Vancouver Clinic), Children’s Hospital, St. Paul’s Hospital and BC Women’s Hospital.

Leukemia/Bone Marrow Transplantation Fellows: The Leukemia/BMT Program had five positions available for clinical training in the management of patients with leukemia or those undergoing bone marrow transplantation (both allogeneic and autologous). These positions were filled by Dr. Christopher Dalley, Dr. Matthew Greenwood, Dr. Chantal Leger, Dr. Brigit Christ and Dr. Lynn Savoie.

Postdoctoral Training: Division Members conducting bench research in the Terry Fox Laboratory (Drs. Eaves, Hogge, Humphries, Lansdorp and Sutherland) trained 14 postdoctoral fellows, 5 of whom were MD’s, 7 were PhD’s and 2 were MD/PhD’s. Four of these held external peer-reviewed fellowships.

Experimental Medicine: In the Terry Fox Laboratory, the Experimental Medicine Program accommodated 2 graduate students, one of whom held both a CIHR and a MSHRF studentship. Other graduate training programs (Medical Genetics and Experimental Pathology) accommodated 11 graduate students in the Humphries and Lansdorp Labs of whom 7 held external peer-reviewed studentships.

Continuing Medical Education: Division Members attended numerous national and international meetings both as attendees and speakers.
Research

Clinical research in the Division at the VGH/BCCA site continued to be focused on malignancies of the blood-forming system. Ongoing, were improved approaches to the use of chemotherapy and the use of bone marrow transplantation for the treatment of acute and chronic leukemia, myelodysplasia, aplastic anemia, lymphoma and myeloma. As well as in-house studies, significant contributions were made to a number of National trials. Research at the St. Paul’s site has focused mainly on clinical trials in the area of thrombosis and anticoagulation spearheaded by Dr. Linda Vickars. Laboratory Research in the Terry Fox Laboratory by Drs. Eaves, Hogge, Humphries, Lansdorp and Sutherland has focused on the regulation of normal and malignant hematopoietic cell growth and differentiation with special emphasis on chronic and acute myelogenous leukemia, Hox genes, telomerase and multiple myeloma.

Clinical Services

The Division’s clinical services continue to cope with a very high work load both in terms of inpatient and outpatient activities. At St. Paul’s Hospital, the Alternate Payments Branch of the Ministry of Health funds 3 hematologists while a fourth position remains unfilled due to lack of any applicants. At VGH there remains a major need to receive funding for a proposed anticoagulation clinic and a hematologist to run it, while the workload in the Leukemia/BMT Program urgently requires additional staff.

Administration

The Directorship of the UBC Hematology Training Program was assumed by Dr. Peter Tsang, replacing Dr. Stephen Nantel who did an outstanding job in this capacity over the last 10 years. Dr. Nantel then took on added responsibilities as Director of the VGH’s Clinical Practice Unit for Hematology/BMT. Dr. John Shepherd moved to become Senior Medical Director of Medical Affairs for the Vancouver General Hospital while retaining a small outpatient practice. In the VGH Cell Separator Unit, Dr. Tanya Petrasko took a maternity leave. In the Leukemia/BMT Program, Dr. Heather Sutherland also took a maternity leave, while Dr. Julye Lavoie unfortunately was on sick leave for most of the year. Dr Kevin Song joined the Leukemia/BMT Program as a BMT Hematologist, while Dr. Ismet Tejpar and Dr. Debra Jacobson joined as BMT Clinical Associates. BMT outpatient facilities expanded with a move from D10 to B5 in the VGH.

Future Directions

Priorities in General Hematology are to recruit a 4th hematologist at St. Paul’s Hospital and to receive funding for a CASC to salary existing staff at the VGH and to hire specialists in coagulation and thrombosis. In the Leukemia/BMT Program, the need for additional staff and the recruitment of a new Director are the major priorities. Patient care, teaching and
research are all being compromised by lack of adequate staffing levels throughout the Division.

**Special Honours and Awards**

*Dr. Allen Eaves*
The R.M. Taylor Award, Canadian Cancer Society /National Cancer Institute of Canada Treasurer, Foundation for the Accreditation of Hematopoietic Cell Therapy, 1995-2002
Board of Directors, National Centre of Excellence, Mathematics and Complex Systems, 1999- Present

*Dr. Donna Hogge*
Adhoc Member Subcommittee B and POI site review teams, National Cancer Institute Grants Review Branch (USA)

*Dr. Keith Humphries*
Chair, Canadian Institutes of Health Research (CIHR), University-Industry Committee
Member of CIHR ad hoc committee for review of embryonic stem cell research

*Dr. Peter Lansdorp*
Member, Scientific Advisory Committee, 31st Annual Meeting of the International Society for Experimental Hematology Montreal, Quebec - July 5-9, 2002

*Dr. Stephen Nantel*
Chair, Specialty Committee, Hematology, Royal College of Physicians and Surgeons of Canada

*Dr. Thomas Nevill*
Scientific Advisory Committee, Canadian Blood Services Unrelated Bone Marrow Donor Registry

*Dr. Cynthia Toze*
Member, Canadian Bone Marrow Transplant Group (CBMTG) Clinical Trials Network Committee
Chair, CBMTG Data Management Subcommittee
INFECTIONOUS DISEASES

Dr. Neil E Reiner,  
Professor and Head

Dr. H Grant Stiver,  
Professor and Assistant Head

Faculty Members

Professor        Bowie, Dr. William      VHHSC
Professor        Brunham, Dr. Robert     BCCDC
Professor        Chow, Dr. Anthony      VHHSC
Professor        Montaner, Dr. Julio    St. Paul's
Professor        Reiner, Dr. Neil      VHHSC
Professor        Stiver, Dr. H.        VHHSC
Assistant Professor Av-Gay, Dr. Yossef  VHHSC
Assistant Professor Cherkasov, Dr. Artem VHHSC
Assistant Professor de Haan, Dr. Marie  VHHSC
Assistant Professor Grigg, Dr. Michael  VHHSC
Assistant Professor Hmama, Dr. Zakaria  VHHSC
Assistant Professor Steiner, Dr. Theodore VHHSC
Clinical Professor Burdge, Dr. David    BCW
Clinical Professor Chan, Dr. Robert     St. Paul's
Clinical Professor Phillips, Dr. Peter  St. Paul's
Clinical Professor Rekart, Dr. Michael  BCCDC
Clinical Assistant Professor Harrigan, Dr. Paul St. Paul's
Clinical Assistant Professor Montessori, Dr. Valentina St. Paul's
Clinical Assistant Professor Press, Dr. Natasha St. Paul's
Clinical Instructor Reynolds, Dr. Robert VHHSC
Associate Member  Isaac-Renton, Dr. Judith BCCDC
Associate Member  Jewesson, Dr. Peter   VHHSC
Associate Member  Marra, Dr. Fawziah     BCCDC
Associate Member  McMaster, Dr. Robert  VHHSC
Associate Member  Money, Dr. Deborah    BCW
Associate Member  O'Shaughnessy, Dr. Michael St. Paul's
Associate Member  Patrick, Dr. David    BCCDC
Associate Member  Tyndall, Dr. Mark     St. Paul's
Adjunct Professor Sanghera, Dr. Jasbinder Kinetech
Divisional Overview

The Division of Infectious Diseases, with its faculty of seventeen clinicians/clinician scientists, and nine basic scientists, has continued to develop programs of excellence at both main locations, Vancouver General Hospital, and St. Paul’s Hospital, while maintaining consultative services at UBC Hospital, GF Strong Rehabilitation Centre, and Women’s Centre. Ambulatory clinics span a range of services related to general infectious diseases, HIV/AIDS, tropical and travelers’ diseases, and outpatient intravenous antibiotic therapy. The Division carries out an active postgraduate research and clinical training program. Clinical training includes a Royal College accredited subspecialty training program as well as rotating residents from internal medicine, medical students, and Pharm D students from Vancouver General Hospital. The main research areas are microbial pathogenesis, host-defense, HIV/AIDS epidemiology and therapeutic trials, and novel antituberculous drug targets, but also include public health epidemiology, vaccinology, and other clinical trials. The Division has performed consistently well in attracting peer reviewed funding for operating, equipment, and scholarship support.

The Division successfully culminated two key recruitments this year. Dr. Michael Grigg, was recruited as an Assistant Professor in the Division of Infectious Diseases from Stanford University, where he recently completed a post-doctoral fellowship working on the molecular genetics and pathogenesis of toxoplasma. He is an expert in the application of genetic, genomic and immunochemical techniques for the study of microbial pathogenesis. He has made several important contributions to science, the most notable being the demonstration that the protozoan pathogen *Toxoplasma gondii* uses sexual recombination itself to yield progeny with dramatically increased pathogenicity. His outstanding research and achievements were recognized recently by a Scientific Award for Research Excellence from the American Society for Tropical Medicine and Hygiene. Dr. Grigg is also a recipient in 2002 of a Scholar Award from the Michael Smith Foundation for Health Research together with a MSFHR Establishment Grant.

Dr. Artem Cherkasov was also recruited to UBC as an Assistant Professor in the Division of Infectious Diseases from the BC Genome Sciences Center. He is an expert in bioinformatics, and computational modeling of structure/function/activity relationships of proteins and drug molecules. Dr. Cherkasov will use the Computational Biology Core to conduct systematic bioinformatics and cheminformatic research on identification and validation of new microbial drug targets and will lead efforts on computer aided development of new antimicrobials and in silico vaccine design. Dr. Cherkasov is highly imaginative and creative scientist and his recruitment was made possible by a competitive Scholar Award from Vancouver Hospital Research Affairs and by support from Genome BC. The Division is extremely pleased to have these two exceptionally talented new faculty members.
Teaching

Faculty within the Division based both at St. Paul's Hospital and at Vancouver General Hospital continue to maintain broad and substantial contributions to education within the Faculty of Medicine.

Undergraduate: The Division maintains a significant commitment to undergraduate education through teaching of Clerkship Half Days, and through rotations of clinical clerks on the inpatient, infectious diseases teaching and consultation service. Infectious Diseases Faculty are also responsible for a very substantial portion of teaching during the Host Defense Infection Block in the PBL curriculum.

Postgraduate: The Division continues to maintain a leading role and high profile in teaching of resident trainees at multiple levels. This year a combined total of 37 Residents received inpatient and outpatient training at St Paul’s Hospital and Vancouver General Hospital, including Residents from Medicine, Neurology, Medical Microbiology and from a number from other universities. At VGH another 12 Pharmacy Residents joined the patient care teams for training. Infectious Diseases Fellows, Abdu Sharkawy and Rich Lester, were joined by a new Clinical Fellow from Hong Kong, Kenny Chan. Nigel Livesley completed his subspecialty training in Infectious Diseases and is conducting antiretroviral clinical trials at the Africa Centre in South Africa.

Drs. Neil Reiner and Valentina Montessori, Program Director for Residency Training, were invited by the Dean of Hong Kong University to visit Hong Kong to conduct a review of existing infectious diseases training opportunities in the Hong Kong Special Administrative Region (HK-SAR) and to provide an assessment of these activities and recommendations for how these could be strengthened. A review was carried out in December 2002 during which time the three major and separate sites currently available for training were visited, including interviews with faculty and trainees. The review team was impressed by the quality, depth and breadth of existing training opportunities and by the level of enthusiasm throughout all levels of the Faculty. A report was submitted to Dean Lam of HKU outlining recommendations and terms of reference for development of a unified, region-wide ID Training Program for the HK-SAR. In addition, opportunities to develop ID training in HK-SAR further through an expansion and strengthening of the already existing collaboration with the UBC Division of ID were identified. Dr. Grant Stiver, Assistant Head, received a Department of Medicine Master Teacher Award for 2002 at Vancouver General Hospital.

Graduate Students: Through Experimental Medicine as well as the Departments of Laboratory Medicine and Microbiology and Immunology, Infectious Diseases Faculty supervised seven Graduate Students in laboratories located at Vancouver General Hospital. Another six Graduate Students were supervised by Faculty at the BCCDC and St Paul’s Hospital.
MD/PhD Program: Joined by Co-Director, Dr. Lynne Raymond from Psychiatry, Dr. Tony Chow has enrolled a total of 10 students in the MD/PhD Program this year.

Continuing Medical Education: Dr. Donald Guiney, from the University of California at San Diego, provided his expertise while in Vancouver as an invited guest of the Infectious Diseases Visiting Scientist Program.

Research

The Division has a broad and vigorous research program with studies being carried out by members located at St. Paul's Hospital, the Women's Centre, the UBC Centre for Disease Control, and the Vancouver Hospital Site. Research areas include basic microbial pathogenesis, microbial genomics, HIV, clinical trials, clinical epidemiology, sexually transmitted diseases, and vaccine studies. Global research support for the past year totaled approximately $3 M with in excess of 100 peer-reviewed publications. A sample of the range of research interests and activities follows:

Division members Drs. Robert Brunham and David Patrick wrote a special CIHR funded report entitled Closing the Gap in which they defined the needs, gaps and opportunities in public health research.

Dr. Valentina Montessori initiated a new clinical trials program of antiretroviral therapy in HIV/AIDS with a focus on treating injection drug users including those with hepatitis C. She has explored simplification of therapy in these patients with the aim of achieving more success in this clinical care. She has also examined care and treatment of endocarditis in injection drug users in an effort to simplify and improve effectiveness of care.

Dr. Michael Rekart, based at the BC CDC, continued his work using a multifaceted approach including social networking, syphilis DNA typing and peer intervention directed at syphilis eradication in BC by 2006. Dr. Rekart's work on syphilis mass treatment intervention was recently published in Lancet. Research in STI Control and HIV prevention extended to Vietnam where Dr. Rekart received a 5 million dollar multi-year award from CIDA to test novel approaches to implementing STI/HIV control programs in Vietnam and perhaps other Asian countries. Other studies are concerned with establishing the prevalence and incidence of chlamydia and identifying new strategies for estimating the true disease burden for chlamydia in BC.

Dr. Grant Stiver received a grant from the AIR Foundation to begin a collaborative study with the Bone Marrow and Solid Organ transplant groups to determine the relative impact of community-acquired respiratory virus infections in transplant patients and to correlate clinical and laboratory parameters that may provide risk factors for severity. Future preventive and therapeutic interventions will depend on the severity risk determinants.
Dr. Mark Tyndall’s research program is concerned with improving the health status of marginalized populations. This is focused primarily on injection drug using populations in the downtown Eastside (DTES) of Vancouver. Current projects include a large health evaluation project (CHASE) in the DTES, the establishment of models to deliver antiretroviral therapy to marginalized groups, and harm reduction projects to reduce the transmission of HIV and Hepatitis C.

Dr. Zakaria Hmama, a recent recruit to the Division has established a powerful research platform in his laboratory to study phagosome cell biology during intracellular infection. His work, primarily concerned with tuberculosis, is looking at novel mechanisms regulating phagosome formation and function. During 2002 his work was recognized when he was awarded a prestigious Michael Smith Foundation for Health Research Scholarship and Establishment Award.

Dr. Tony Chow's laboratory continued to make significant headway in their work concerned with Heat shock protein 60 kDa (hsp60) gene sequences in infectious disease diagnosis, microbial identification, phylogeny and pathogenesis: Two key observations led to the development of several patented diagnostic technologies: a) hsp60 genes from different organisms have both highly conserved as well as species-specific sequences; and b) universal hsp60 degenerate primers can amplify a 600-bp gene product from any microorganism of interest. It is expected that these discoveries will support the development of novel approaches for the genotypic detection and accurate identification of fastidious and nonculturable pathogens, phylogenetic analysis of emerging pathogens, and the investigation of recombinant hsp60 peptides in the serodiagnosis and immunopathogenesis of infectious diseases.

Dr. Neil Reiner's laboratory continued investigations concerned with the cell biology of intracellular infection. Working in collaboration with Dr. Devki Nandan, this work led to the novel finding that intracellular pathogens specifically target host regulatory molecules. As a direct result of this work, he has recently filed -along with Drs. Nandan and Cherkasov-three US Provisional Patents on a unique and powerful invention to identify novel vaccine and drug targets in microbial pathogens were filed in 2002.

Clinical Services

The Director of the HIV/AIDS Care Team at VGH, Dr. Chester Morris, continued his efforts to develop an HIV/AIDS Program modeled on a patient care plan which would enhance inpatient and outpatient care, and also result in a 10% reduction in hospital stay and readmission rate. An HIV/AIDS outpatient clinic at Munroe Clinic was established, but there remain limitations of hospital and recruitment resources to overcome. Since Dr. Morris’ departure for a position in the US, Drs. Robert Reynolds and Iain Mackie are maintaining HIV/AIDS care for the more than 150 patients per year at VGH.
Administration

Dr. Yossef Av-Gay was appointed as an Associate Member of the Department of Microbiology and Immunology.

Dr. Chester Morris who headed the HIV/AIDS Program at Vancouver General Hospital accepted a position as Director, HIV/AIDS for Project Hope in Virginia.

Dr. David Patrick has transferred his appointment with Infectious Diseases to Associate Member because his position as Director, Communicable Diseases Epidemiology, BCCDC, is more closely linked with Health Care & Epidemiology where he is now a full member.

Midway through the year Dr. Tony Chow began a year of sabbatical leave to pursue his research at USC, San Diego.

Future Directions

In collaboration with the UBC and BC CDC's, the Division has prepared a major project submission, totalling 22.3 million dollars to be submitted to CFI in May 2003. The goal of this project submission is to create a Centre for Network Biology of Infection and Immunity (CNBI²) on the VH Campus. This proposal describes the vision to apply modern principles of network science to describe the architecture of the networks that govern infection biology from the level of molecules to populations. Application is being made to CFI to provide the core technologies essential to position CNBI² to transform infectious disease and immunity research through the lens of Network Biology. The crucial infrastructure needed to achieve this goal includes:

- **Molecular Sciences Core** for studying functional proteomics, including the identification of novel protein-protein interactions; and high-throughput, large-scale, genome-wide analyses, functional genomics and genomic epidemiology
- **Cell Sciences Core** for studying macromolecular pathogen/host interactions
- **Computational Biology Core** incorporating bioinformatics for in-silico drug and vaccine design and for studying molecular mimicry, and mathematical modeling with applications to network structures from the levels of molecules to populations and ecosystems

The infrastructure will be housed in an approximately 25,000 square foot newly built laboratory on the campus of Vancouver General Hospital. Science carried out by CNBI² researchers will describe the architecture of networks and the critical, highly connected nodes that govern infection biology. This new knowledge will support the development of novel therapeutics and vaccines leading to targeted disruption of these critical hubs with attendant reductions in morbidity and mortality from infectious diseases. These discoveries will also translate into advances in the prevention and treatment of many infections of major global public health importance, from influenza to tuberculosis, malaria and many others. Its unique organization, powerful research capabilities, and its infrastructure platforms, will also ideally
position CNBI\textsuperscript{2} to mount quick and focused responses to new health challenges from unanticipated threats from new and emerging pathogens.

A second major initiative being developed is the recruitment of a clinician scientist with a special focus on infections in both solid organ and marrow transplant patients. The goals here are to assure continued availability of the highest quality patient care and to promote new advances through research. Support for this important recruitment is being provided by the BC Transplant Society and by the BC Cancer Agency.

**Special Honours and Awards**

Dr. Yossi Av-Gay – appointed as a full member of the Canadian Bacterial Disease Network. His TB research was highlighted as “hot news” in the Pharmaceutical Industry journal Target and BMN web site.

Dr. Tony Chow – participated as External Reviewer, US Army Medical Research Institute of Infectious Diseases Therapeutics Program, Toxins Panel, American Institute of Biological Sciences.

Dr. Julio Montaner - received the Boehringer Ingelheim Distinguished Research Award in HIV

Dr. David Patrick – received the International Society for Infectious Diseases – Communicable Disease Epidemiology Prize, March 2002

Dr. Grant Stiver – received the Department of Medicine Master Teacher Award 2002 for VGH

Dr. Reiner - was an invited speaker at the joint meeting of the The International Cytokine Society (ICS), The International Society for Interferon and Cytokine Research (ISICR) and The Society for Leukocyte Biology (SLB), in Torino, Italy, October 2002 and invited speaker, plenary session, “Frontiers in Biomedical Research Symposium”, Faculty of Medicine, University of Hong Kong, Hong Kong, December 2002

Dr. Natasha Press - received the CTN/CIHR Partnership Award

Dr. Val Montessori - received the Exceptional Teaching Award PGY1 Residents - SPH
## MEDICAL ONCOLOGY

**Dr. Susan E. O'Reilly,**  
*Clinical Professor & Head*

### Faculty Members

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<tr>
<th>Rank</th>
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Clinical Instructor Martin, Dr. Lee Ann VGH
Clinical Instructor Martins, Dr. Heidi BCCA
Clinical Instructor Sutherland, Dr. Judith BCCA
Honorary Professor Bruchovsky, Dr. Nicholas BCCA
Associate Member Brigden, Dr. Malcolm
Associate Member Ling, Dr. Victor
Clinical Professor (Emeritus) Goldie, Dr. James
Clinical Professor (Emeritus) Plenderleith, Dr. Ian
Clinical Professor (Emeritus) Silver, Dr. Hulbert

**Divisional Overview**

The Division of Medical Oncology, UBC, comprises the Medical Oncology and scientific staff at the Vancouver Cancer Center, Fraser Valley Cancer Center, Surrey, Vancouver Island Cancer Center, Victoria and the newest Cancer Center for the Southern Interior, Kelowna, as well as community oncologists in Burnaby, Lion’s Gate, North Vancouver, Nanaimo and the Royal Columbian Hospital, New Westminster.

In addition to the clinical division, there is a laboratory section (Advanced Therapeutics) which is located in the British Columbia Cancer Research Center. It comprises four senior scientists and six clinical investigators who also have appointments at the Vancouver Cancer Center, Department of Medical Oncology.

Medical Oncology clinical services are organized as a Provincial Systemic Therapy Program at all four centers. Undergraduate and postgraduate teaching occur principally at the Vancouver Cancer Center and elective opportunities are available at all other cancer centers. UBC clinical faculty at all centers are available to participate in undergraduate teaching modules.

The next few years will pose some exciting challenges and opportunities. More medical oncologists will be needed to address the rising incidence of cancer, related to the aging population, will result in a 44% increase in workload by 2011. Simultaneously, many new therapies, (both curative and long-term control of different cancers) are being rapidly incorporated into our therapeutic armamentarium. Expanded opportunities for clinical and translational research is readily available based on the rapid emergence of new knowledge in cancer biology.

The new B.C. Cancer Research Center building has begun construction in 2002. This state-of-the-art research facility will house a wide range of laboratory research programs including molecular oncology, the Gene Sequence Center and the Terry Fox Laboratory.

**Teaching**

**Undergraduate:** The Medical Oncology Undergraduate Training Committee, chaired by Dr. Amil Shah is active in providing and planning teaching modules and clinical bedside
teaching in Internal Medicine. An elective in Medical Oncology is available to UBC and visiting medical students.

**Postgraduate:** The Postgraduate Training Committee, chaired by Dr. Richard Klasa, offers two-month electives in Medical Oncology to internal medicine residents from UBC and other universities. Approximately 10-16 residents per year from these and other specialty disciplines spend elective periods at the Vancouver Cancer Center. Opportunities are available for electives at all of our regional cancer centers and some financial support for travel and accommodation is available for residents choosing one of these options.

The Postgraduate Training Committee also plans and supervises the two-year subspecialty-training program in Medical Oncology. This program is based at the Vancouver Cancer Center with elective opportunities at all other centers and in community oncology practice. The six-month elective period may also be applied to laboratory or clinical research. One or two month electives at centers elsewhere in Canada or in other countries may also be considered. This program is fully approved by the Royal College of Physicians and Surgeons of Canada and has consistently received excellent reviews. The University of British Columbia and the British Columbia Cancer Agency fund eight residents (four in each year of our two year program). Additional training positions for overseas residents result in eight or nine trainees participating in this two-year program at any one time. Currently, residents participate in academic oncology training with excellent exposure to clinical practice, ambulatory care and clinical trials. Residents generally contribute to clinical research and have a number of publications and presentations to their credit. Opportunities to pursue laboratory research projects are available.

**Continuing Medical Education**

All medical staff are active in continuing medical education courses organized by the British Columbia Cancer Agency, other provincial, national and international bodies.

**Research**

Members of the Division are involved in a wide variety of phase I, phase II and phase III clinical trials. These include the development of new anti-cancer drugs, the evaluation of new doses schedules and combinations of drugs in the phase II setting and the participation in multi-institutional phase III studies evaluating effective new treatments on specific categories of malignancy.

Our phase I investigational new drug program is growing rapidly as a reflection of the energy and enthusiasm of the scientists and physicians in the Advanced Therapeutics section of Medical Oncology and in response to the increasing availability of new agents for testing in North America.
In 1999, the Gene Sequencing Center commenced operations within the Vancouver Cancer Center and the availability of this exciting scientific research enterprise further enhances our opportunities for developing and conducting leading translational research programs.

Our Advanced Therapeutics Section is able to evaluate new biological response modifiers, gene therapy and pharmaceutical agents through all stages from in-vitro testing in the laboratory to evaluation in human volunteers. The Vancouver Cancer Center has the only Clean Room in an academic center in Canada that is equipped and licensed for the packaging and formulation of pharmaceutical agents in small quantities for clinical testing.

At the pre-clinical level, studies are being carried out in evaluating antiangiogenesis agents, gene modifiers, enzyme inhibitors, experimental drug modulators, pre-clinical drug toxicities and drug carrier research such as liposomal encapsulated agents. Currently, the BCCA manages its own grants and these are not listed in this report.

**Clinical Services**

The four B.C. Cancer Centers now provide medical oncology consultations for 7,000 new patients annually and there are 50,000 ambulatory care visits to these centers. The Provincial Systemic Therapy Program, headed by Dr. Susan O’Reilly manages the $57,000,000 oncology drug budget, which supports the care of 23,000 patients annually, both within BCCA centers and in community hospitals. Opportunities for health services research projects are available and linkages with the Provincial Tumor Registry and Vital Statistics are readily available. We are uniquely positioned to further develop province-wide population-based research in health outcomes for cancer patients.

**Future Directions**

The major academic goal of the Division is to achieve an outstanding translational research unit that combines the excellent basic science research at the British Columbia Research Center, the input from the Gene Sequencing Program, the resources of our academic medical oncologists and the participation of our large patient population.

British Columbia has consistently shown the best cancer survival statistics in Canada and we are in a unique position to carry out province-wide treatment programs and both clinical and translational research.
NEPHROLOGY

Dr. Eugene C. Cameron,
Associate Professor & Head

Faculty Members

Professor Keown, Dr. Paul VHHSC
Professor Quamme, Dr. Gary VHHSC
Professor Sutton, Dr. Roger VHHSC
Professor Wong, Dr. Norman VHHSC
Associate Professor Cameron, Dr. Eugene VHHSC
Clinical Professor Chan-Yan, Dr. Clifford St. Paul's
Clinical Professor Levin, Dr. Adeera St. Paul's
Clinical Professor Werb, Dr. Ronald St. Paul's
Clinical Associate Professor Landsberg, Dr. David St. Paul's
Clinical Associate Professor Shapiro, Dr. Jean VHHSC
Clinical Associate Professor Taylor, Dr. Paul St. Paul's
Clinical Associate Professor Yeung, Dr. Choi Kit VHHSC
Clinical Assistant Professor Chiu, Dr. Anthony St. Paul's
Clinical Assistant Professor De Luca, Dr. Linda St. Paul's
Clinical Assistant Professor Duncan, Dr. John VHHSC
Clinical Instructor Copland, Dr. Michael VHHSC
Clinical Instructor Jastrzebski, Dr. Jacek VHHSC
Clinical Instructor Kiaii, Dr. Mercedeh St. Paul's
Clinical Instructor Singh, Dr. Rajinder VHHSC
Professor (Emeritus) Price, Dr. John
Clinical Professor (Emeritus) Rae, Dr. Angus

Divisional Overview

The Division of Nephrology encompasses 21 full members based at three principal sites: SPH (11), VGH (8) and UBC Campus (2) with 3 adjunct members at the BC Children’s Hospital, who provide provincial leadership in all areas of research, education and clinical care within the field of renal medicine. The Division has a strong clinical base and provides integrated and decentralized nephrology care throughout the Vancouver Coastal Health Region. The Division plays an important role in the UBC undergraduate curriculum, and has one of the largest and most active nephrology fellowship training programs in Canada. Research activities range from genetic and molecular sciences to innovative trials in renal disease and transplantation, with novel measures of health status and economic outcomes. Members of the Division play leading roles in the advancement of nephrology at provincial, national and international levels through their positions in the BC Provincial Renal Agency, BC Transplant Society, the Kidney Foundation of Canada, the Canadian and International Societies of Nephrology, the International Transplant Society, and other organizations.
Teaching

Undergraduate: The members of the Division are actively involved in the five-week Fluid & Electrolyte, Renal and Genito-Urinary Block in the first year of the Undergraduate Curriculum. Drs. E.C. Cameron (Block Chair), A. Levin (Week Chair), M. Kiaii, S. Singh, M. Copland, J. Duncan, R. Sutton & N. Wong participated in the ongoing development and delivery of this course. A revision and updating of the course took place during July and August 2002.

Drs. J. Duncan and A. Jamal were appointed as Undergraduate Curriculum Representatives for 3rd Year Fluid & Electrolyte and Nephrology seminars. Dr. A. Levin and Dr. S. Singh continued to be responsible for supervision of the Clinical Clerkship rotations.

It is notable that, in the examination of the National Board of Medical Examiners, the only section in which 3rd year UBC medical students performed significantly above the mean was the Renal, Urinary and Male Reproduction.

Postgraduate: The Postgraduate Training Program in Nephrology is under the leadership of Program Director, Dr. A. Levin and Associate Director, Dr. S. Singh. During 2002, there were five Fellows in the 1st year of the Program, four Fellows in the 2nd year of the Program and three in the 3rd year doing post-fellowship research training, and one is in the UBC American Society of Nephrology/Transplantation Renal Transplant Fellowship Program.

Residents and Fellows were active in clinical research with submissions and presentations of abstracts by the Nephrology Fellows at the American Society of Transplant Physicians, the Canadian Society of Nephrology, the American Society of Nephrology and the UBC Resident Research Day. Three Fellows received Kidney Foundation of Canada Biomedical Research Fellowships.

Experimental Medicine: Dr. N. Wong directed the Experimental Medicine Program for the Department of Medicine (see separate report). This Program had 98 trainees including those supervised by Dr. P.A. Keown.

Continuing Medical Education: The annual BC Nephrology Day was held again in October 2002. This was a highly successful multidisciplinary meeting attracting over 200 participants from dialysis centres in British Columbia. A number of members of the Division participated in Continuing Medical Education activities at the local and Provincial level. Drs. A. Levin and P. Keown have an active speaking schedule in national and international meetings.

Research

Clinical Research: The clinical research in the Division of Nephrology emphasizes outcomes research and clinical trials. The Division is actively involved in both industry-
sponsored and peer-reviewed research in the areas of chronic kidney disease, dialysis and transplantation. Division members hold Kidney Foundation grants, BC Research and BC Transplant Foundation and other operating grants. Dr. John Gill obtained personnel and research awards from the Kidney Foundation of Canada and the Michael Smith Foundation for Health Research.

The scope of clinical research includes patient care prior to dialysis, cardiovascular disease in patients with kidney disease - determinants of outcomes and severity, vascular access monitoring and tracking programs, the relationship of monitoring systems to patient outcomes, mineral metabolism and patient outcomes, the evaluation of new medications on patient parameters, the evaluation of new immunosuppressive medications on transplant outcome, gender studies in renal disease, and ethics studies related to genetic identification of polycystic renal disease.

**Basic Research:** The laboratory of Dr. N. Wong conducted studies concerning the regulation of expression of vasopressin B_2_ MRNA in the medullary collecting system of congestive heart failure patient model. Dr. G. Quamme’s laboratory continued research on the magnesium response element that controls magnesium transport. Dr. P. Keown’s research projects include the genetic control of immune response in transplantation and arthritis through polymorphism with the cytokine gene family, economic models in transplantation and pharmacokinetics.

**Administration**

The Division was pleased to add two new Faculty members, Dr. John Gill and Dr. B. Jung. Dr. John Gill has obtained a Kidney Foundation Clinical and Investigative Research Fellowship and a research grant from the Michael Smith Foundation. His investigative focus will be the humoral immune response in acute and chronic transplant rejection. He will be actively involved in the Postgraduate Nephrology Training Program. Dr. B. Jung will focus on in-centre and community based dialysis and will be involved in the Divisional Undergraduate and Postgraduate Teaching Programs. Dr. R.A.L. Sutton retired from the Division of Nephrology. He served as the Division Head from 1984 – 1994.

**Future Directions**

The Division will continue to build on its strengths to ensure the highest quality of academic and clinical activity for the University, the health system, and the community. The Division will take a major role in Renal & Fluid and Electrolyte teaching in the expanded Medical School, maintain leadership in nephrology postgraduate education, pursue integration of basic and clinical research in nephrology and introduce innovative initiatives in the delivery of care to patients with renal disease.
Special Honours and Awards

Dr. P.A. Keown - Treasurer, International Transplant Society

Dr. A. Levin - Past President of the Canadian Society of Nephrology, Co-Chair of Kidney Dialysis Outcomes Quality Initiative National Kidney Foundation USA, Department of Anaesthesia, UBC: Master Teacher Award University of British Columbia/St. Paul's Hospital Excellence in Teaching Award

Dr. P. Taylor - President of the Western Peritoneal Dialysis Association

Dr. Duncan Anderson was appointed President of the Canadian Ophthalmology Society from 2002 - 2004.
NEUROLOGY

Dr. Howard Feldman, Professor & Head

Faculty Members

Professor                Feldman, Dr. Howard VHHSC
Professor                Oger, Dr. Joel VHHSC
Professor                Pelech, Dr. Steven VHHSC
Professor                Stoessl, Dr. Jonathan VHHSC
Professor                Tsui, Dr. Joseph VHHSC
Professor                Wang, Dr. Yu Tian VHHSC
Associate Professor      Doudet, Dr. Doris VHHSC
Associate Professor      Kastrukoff, Dr. Lorne VHHSC
Assistant Professor      Lee, Dr. Chong VHHSC
Assistant Professor      Spacey, Dr. Sian VHHSC
Clinical Professor       Hashimoto, Dr. Stanley VHHSC
Clinical Associate Professor Hooge, Dr. John St. Paul's
Clinical Associate Professor Javidan, Dr. Manouchehr VHHSC
Clinical Associate Professor Jones, Dr. Michael VHHSC
Clinical Associate Professor Krieger, Dr. Charles VHHSC
Clinical Associate Professor Robinson, Dr. Gordon VHHSC
Clinical Associate Professor Wong, Dr. Milton St. Paul's
Clinical Assistant Professor Beckman, Dr. Jeff VHHSC
Clinical Assistant Professor Clarke, Dr. Stephen St. Paul's
Clinical Assistant Professor Foti, Dr. Dean VHHSC
Clinical Assistant Professor Gibson, Dr. Gillian VHHSC
Clinical Assistant Professor Johnston, Dr. Dean St. Paul's
Clinical Assistant Professor Keyes, Dr. Robert St. Paul's
Clinical Assistant Professor Martzke, Dr. Jeffrey VHHSC
Clinical Assistant Professor Mezei, Dr. Michelle VHHSC
Clinical Assistant Professor Prout, Dr. Alister St. Paul's
Clinical Assistant Professor Teal, Dr. Phillip VHHSC
Clinical Assistant Professor Thiessen, Dr. Brian VHHSC
Clinical Instructor      Costantino, Dr. Anthony VHHSC
Clinical Instructor      Devonshire, Dr. Virginia VHHSC
Clinical Instructor      Tai, Dr. Charles St. Paul's
Clinical Instructor      Tessler, Dr. Barry Royal Columbian
Clinical Instructor      Traboulsee, Dr. Anthony VHHSC
Clinical Instructor      Varelas, Dr. Michael VHHSC
Clinical Instructor      Woolfenden, Dr. Andrew VHHSC
Associate Member         Anderson, Dr. Duncan VHHSC
Associate Member         Forwell, Dr. Susan VHHSC
Associate Member         Graeb, Dr. Douglas VHHSC
Associate Member         Hurwitz, Dr. Trevor VHHSC
Divisional Overview

The Division of Neurology is the largest division within the Department of Medicine. It has its major teaching, research and clinical activities at Vancouver General Hospital, UBC Hospital and St. Paul’s Hospital. Its faculty of 48 includes an accomplished group of clinical faculty (35), clinician scientists (8), and basic neuroscientists (5). The Division is particularly well recognized for its clinical and research programs in neurodegenerative diseases, demyelinating diseases, neuromuscular disorders and cerebrovascular diseases. It has been consistently very productive in obtaining peer reviewed grant funding, and contributes importantly to both basic and clinical neurological literature. The Division also provides a high level of clinical care including tertiary and quaternary care for neurological disorders provincially. Faculty are involved in teaching and supervising all levels of students and trainees from undergraduate to post doctoral.

Amongst the highlights for the Division in the past year has been the opening of the Brain Research Center on the first floor of the UBC Hospital. This Center adds to the strength and opportunity for the Division, creating a unique environment for collaborative research between clinical and basic science researchers as well as for translational research studies. Many of the basic scientists within the Division have moved into the BRC as anchor tenants and are now better able to accommodate and attract Ph.D and post doctoral students.

Through the generosity of Dr. Donald W. Paty the Division has been able to establish an Endowment in his name that will serve to support the mission of developing academic Neurology at UBC. The terms of the Endowment were recently settled and the annual award will be given for the first time in 2003. The Division had the pleasure of awarding the Ludmila and Henry Zeldowicz Award to Dr. Kristine Chapman Howard in recognition of her promise and contribution to neurological research as a resident.
Teaching

Undergraduate: Dr. Gordon Robinson was appointed as the Director of undergraduate education for the Division. He brings extensive experience in developing educational programmes to this important area. The use of innovative resources for learning such as video and web based material will enhance the training of medical students in neurology.

Divisional members are involved in the Brain and Behaviour course during 2nd year, providing classroom lectures and bedside sessions in clinical skills. The Division is particularly grateful to the community neurologists who have faithfully supported this teaching activity.

Seminars and bedside sessions are provided in 3rd year. A 4th year clerkship is available as an elective/selective. The clerkship is based on an inpatient and outpatient experience allowing students to take advantage of all of the resources within the Division. As well as UBC students the clerkship attracts students from other medical schools in Canada and other countries.

Plans are underway to develop a combined clerkship with neurosurgery and spine. This will be offered to all students as an elective/selective in the revised 4th year likely beginning in 2003-2004.

Postgraduate: The Post Graduate Residency Training currently has 13 residents at various levels of training from PGY1 to PGY5. In the first two years of our program, the residents rotate through various subspecialties in Internal Medicine, ICU, Emergency, as well as doing their first Neurology rotations. The PGY3-5 years are core Neurology training years. Residents do their inpatient training at Vancouver General Hospital and St. Paul's Hospital. Many outpatient subspecialty clinics are done at UBC Hospital. Our residents have been actively involved in various research projects. For the year 2002 there were 9 poster presentations at various international meetings, one book chapter and three peer-reviewed papers accepted for publication. Dr. Galina Vorobeychuk won a Young Investigator Award for research in Multiple Sclerosis and Dr. Kristine Chapman Howard won the Resident Scholarship Award for AAN Annual Meeting and the Ludmila and Henry Zeldowicz Award in 2002.

Fellowship Training and Awards: The Division of Neurology appointed the following individuals to fellowship and post-doctoral fellowship training in 2002:

Multiple Sclerosis Program: Dr. Helen Tremlett (post doctoral fellow of the MS Society), Dr. Penny Smyth (clinical fellow)

Alzheimer’s Disease and Related Disorders: Dr. Robin Hsiung (Michael Smith Foundation Health Research Post Doctoral Fellowship)
Parkinson’s Disease and Movement Disorders (Pacific Parkinson’s Research Center): Dr. Ajit Kumar, Dr. Zhigao Huang and Dr. Benjamin Lai (research fellows).

Stroke Program: Dr. Li Huan (clinical fellow).

Neuromuscular Diseases Program: Dr. Charles Tai (clinical fellow).

Basic Neuroscience Research: In the laboratory of Dr. Y.T. Wang, Dr. Yushan Wang was awarded a CIHR Fellowship for 2001-2004; Dr. Tak Pan Wong was awarded an NSERC Fellowship as well as a CIHR and Michael Smith Foundation Health Research Fellowship for 2001-2005; Dr. Changiz Taghibiglou was awarded a CIHR Fellowship and a Michael Smith Foundation Health Research Fellowship for 2002-2005; Mr. Yitao Liu was awarded a CIHR/HSFC Doctoral Award and Michael Smith Foundation Health Research Studentship 2002-2005.

Neuropsychology: Dr. Renata Harland was appointed clinical fellow in Neuropsychology under the supervision of Dr. Jeff Martzke.

VHHSC

The Neurology CTU at Vancouver General Hospital consists of a 2 bed Acute Stroke Unit, 2 bed Seizure Investigation Unit and 10 beds for general neurology. The unit provides care for patients with neurological disorders from all of British Columbia as well as the Lower Mainland. The limited resources continue to severely challenge our role as the only tertiary facility for these patients.

Division members rotate through the Unit serving as ward managers, consultants, and on-call neurologists. The Stroke Service provides emergency management of acute stroke. Residents from neurology and other disciplines such as medicine, neurosurgery, paediatric neurology and physical medicine are involved in providing patient care.

Ambulatory care is provided at UBC and VGH sites. There are clinics for general neurology, stroke, epilepsy, headache, movement disorders, dementia, neurogenetics, metabolic disorders, myasthenia gravis, ALS, and multiple sclerosis. Medical students and residents attend many of these clinics to receive teaching in the entire range of neurological conditions.

The CPU administration includes Dr. Gordon Robinson as Medical Director, Dr. Howard Feldman as hospital Divisional head, Ms. Mary Nieforth as patient services director and Ms. Susan Wannamaker as director Vancouver acute.

In April 2003 the neurology inpatient will move to 5-West in the Tower at the VGH site. This long awaited facility will potentially allow an increased bed capacity and eventually result developing a separate ward for neurology.
St. Paul's Hospital

The role of the Division of Neurology at SPH has expanded over the past two years. This has been prompted by the creation of Providence Health Care that now encompasses the four catholic hospitals in the city of Vancouver. Specifically, SPH, Mt. St. Joseph's Hospital, St. Vincent's Hospital and its 4 affiliates and Holy Family Hospital. While the roles of each of these four hospitals in Providence Health Care are undergoing change, SPH will remain the tertiary referral centre within that core group of hospitals as well as for the Vancouver lower mainland and the province of BC. As a result of this role most of the members of the SPH Division of Neurology have developed individual outreach programs to bring their neurological expertise to local communities. These communities are located in the northern areas of the province as well as in the Yukon Territory.

Within the SPH Division of Neurology members have a variety of subspecialty interest including clinical neurophysiology, neuromuscular disease, stroke and multiple sclerosis. There is also a significant relationship between the Division of Neurology and the Department of Pediatrics based on programmatic involvement of 2 divisional members. There is also a close link between the Division and the Department of Obstetrics.

At SPH outpatient divisional clinics include the Rapid Access Neurology Clinic in which patients requiring urgent but not emergent neurological assessment are seen within a one week of presentation. This clinic provides an important teaching opportunity for trainees at SPH. The Division is actively involved with treatment of patients from the downtown core and provides an excellent opportunity to develop expertise in the treatment of substance related neurological problems as well as HIV and AIDS.

The members of the SPH Division of Neurology are actively involved in teaching at the undergraduate and postgraduate levels and are regarded highly by the students and residents for their teaching skills. A number of research projects are ongoing including neuroprotective studies for stroke, and carnitine use HIV related peripheral neuropathies.

The faculty of the SPH Division has grown over the past several years allowing replacement of a number of the members who are retiring. A future recruitment planning process has been developed.

Research

An active and productive research program has continued within the UBC Division, involving basic science, clinical and translational research. Research initiatives have centered around the core programs within the Division as outlined below.
Alzheimer’s Disease

The UBC Alzheimer’s Clinical Trials Program has been active in both peer reviewed and pharmaceutically sponsored research during this past year. Divisional faculty participating include: Dr. Howard Feldman (Director), Dr. Dean Foti and Dr. Jeff Beckman. The research group has included. Mr. Kevin Peters (Psychology) PhD candidate, Ms. Claudia Jacova (PhD candidate), Dr. Robin Hsiung (Michael Smith Post Doctoral Fellow).

The ACCORD study, a longitudinal multicenter cohort study of subjects referred with cognitive symptoms completed its baseline analyses of 1136 subjects who were recruited at 8 dementia research units in Canada. The baseline paper will be published in a forthcoming issue of Neuroepidemiology. The planning for the 5 year follow-up of the ACCORD cohort is proceeding with an anticipated start up in the first quarter of 2003. This national study has been lead by the coordinating center at UBC. Collaborators/co-investigators on the ACCORD study include Dr. Howard Feldman (Principal Investigator) Dr. Alan Donald (Statistics), Dr. Dessa Sadovnick (Neurology/Genetics), Dr. Lynn Beattie, (Geriatrics), Dr. Dean Foti and Dr. Ian Mackenzie (Neuropathology). A tissue and blood bank has been developed for this study and is located in the Brain Research Center.

Peer reviewed research funding from CIHR/Alzheimer Society of Canada has been received for a longitudinal study of novel MRI techniques in mild cognitive impairment (2002-4). Mr. Kevin Peters PhD candidate in Cognitive Psychology was awarded doctoral scholarships by the Alzheimer’s Society of Canada and the CIHR on this study with Dr. Howard Feldman.

The clinical trials focus in the past year has continued to focus on studies of mild cognitive impairment as a precursor state to AD, with participation in a number of clinical trials investigating the potential for delay of time to the diagnosis of AD. The unit has been part of a 3 year NIH trial of treatment with donepezil, and vitamin E as well as a galantamine study. A core group of very experienced nurse coordinators and research assistants are critical to the success of the clinical trials program.

Clinical Activities: The Alzheimer Clinic evaluated an estimated 1256 patients in 2001 with 200 new consultations, 266 reassessments, and 707 followup appointments. New referrals can include a range of assessments including Genetics, Social Work, Neuropsychology, Geriatric Psychiatry and Neurological/Medical.

Teaching and Education: The Clinic has been very active in providing teaching to trainees of multiple disciplines at many levels. A formal one day preceptorship training program for family physicians and specialists is in place. Clinic members participated extensively in CME activities, and on expert national international working groups and advisory committees. A community public forum on Mild Cognitive Impairment was very well received with 750 people in attending at the evening program.
Stroke and Cerebrovascular Program

The Stroke Program at the Vancouver General Hospital had an extremely busy and productive year. In its clinical activities the service provided both intensive emergency care as well as stroke prevention. The Acute Stroke Service treated 22% of all ischemic strokes with tPA therapy. This is one the highest such treatment rates in North America. Many patients benefited dramatically. The Stroke Prevention Clinic expanded to two days per week and patient volumes have continued to increase. Negotiations are ongoing with the hospital to gain support for a full hospital stroke service to deliver optimal care to patients admitted with stroke and cerebrovascular disease however this has yet to be achieved.

The Stroke Program provided teaching and education at all levels. Several public forums were held including a very successful one at the Vancouver General Hospital. These forums provide public awareness on the prevention of stroke and recognition of stroke warning symptoms. A seminar on stroke was given to the best and brightest of B.C. high school students during a research internship hosted by the Heart and Stroke Association. Formal and clinical teaching was provided to medical students. Weekly stroke rounds and bedside teaching were held in sessions throughout the year to provide education to neurology and medical residents. Members of the stroke program delivered numerous talks and seminars to practicing physicians at hospital rounds around the province as well as at other conferences and meetings.

The Stroke Program organized and hosted the Annual BC and Alberta Stroke Conference which attracted neurologists from across western Canada attracting a record number of attendees. It also organized the Stroke Conference held during the CCNS meeting.

On an international level, members of the Stroke Program delivered posters and platform presentations at the American Stroke Association meeting, the Canadian Congress of Neurological Sciences, the American Academy of Neurology, the European Stroke Conference and the International Conference on Ultrasound Applications.

The Clinical Trials Program has been extraordinarily busy with grant and industry-funded trials. We are currently engaged in five stroke prevention trials (VISP, WASID, SPARKL, CHARISMA, and FASTER). Both the VGH and SPH are grant-funded centres in the Canadian Stroke Registry. The VGH remains one of the most active hospitals in North America in acute stroke treatment trials. In the past year we have participated in four trials of neuroprotective agents (mRECT, ONO, ASTIN, ARTIST), a IIb-IIIa trial (AbESS), and three reperfusion studies including the use of novel catheter devises or intra-arterial therapies (IMS, EKOS, Endovasix). Members of the Stroke Program serve on international steering committees as well as officers and committee members of the Canadian Stroke Consortium.
Multiple Sclerosis

The MS Clinical and Research Centre has been created under the directorship of Dr J.Oger and regroups UBC faculty as a multidisciplinary group working out of the University of British Columbia and the UBC Hospital. This group presently brings together the expertise of clinicians and researchers in a multidisciplinary approach focused onto a single disease entity. The researchers in this group have been funded individually. An MS chair has just been endowed and recruitment for a suitable candidate has been started in collaboration with the Brain Research Centre.

Five major areas of research are being pursued in the treatment of MS and the understanding of MS pathophysiology:

Natural History of MS: We continue to develop the basis for studies of natural history in MS through the use of the Costar Database. This is being extended under the leadership of Dr Virginia Devonshire. Studies on benign Multiple Sclerosis and on autoimmune diseases are being finalized. The Costar database is also used to screen potential patients for therapeutic trials.

Evaluation of newly authorized therapies in MS: A collaboration between the MS Clinic (Dr Hashimoto) and Drs. Li (MRI) and Oger (Neuroimmunology) to evaluate the cost/effects of Interferons and the influence of antibodies on their effectiveness. Dr. Helen Tremlett, (PhD from Wales) received a fellowship from the Canadian MS Society to help review our experience on liver dysfunction induced by interferons. The MS/MRI Research Group, directed by Drs. Paty, Li and Traboulsee, continues to provide internationally recognized high quality MRI analysis that has been the basis of multicentre therapeutic clinical trials. Thousands of MRI images from several major clinical trials are stored in a 4-terabyte database for future natural history studies. Innovative analysis techniques have been developed over the past year including semi-automated lesion load and brain volumetric measures and film-less activity analysis. In collaboration with the Consortium of MS Centres, Drs. Paty, Li and Traboulsee have developed international guidelines for clinical MR imaging in the diagnosis and management of Multiple Sclerosis.

MRI relationship to Neuropathology: the collaboration between the MS Clinic (Dr Hashimoto) Drs Li (MRI), Moore (Neuropathology) and Mackay (Physics) autopsy material is being studied to evaluate the relative contribution of the different elements of the pathogenic process including inflammation, demyelination, apoptosis and neuronal death. Correlations between MRI and pathology are being developed using autopsy material. This research is generously supported by the Canadian MS Society in addition to Dr. Mackay’s physics group who are developing novel MRI techniques that allow in vivo analysis of myelin specific water content.

Endothelial cells as a tool to explore MS pathophysiology: A collaboration between Drs Doronovi-Zis (Neuropathology), Oger (Neuroimmunology) and Moore. The blood brain
barrier is the final physiological barrier between the attacking blood cells and the white matter. The 2 in vitro models developed by Dr Dorovini and Dr Oger have permitted a concerted approach to the studies of the regulation of the transit of T effector and regulatory cells from blood to brain. These studies are being applied to HTLV-I associated myelopathy, a viral induced demyelinating disorder very closely related to multiple sclerosis but where the viral etiology has now been established. Some of our most recent therapeutic trials will also apply this as a secondary end-point.

New Drug Therapies: Finally the group continues to evaluate new immunomodulatory drugs and especially focuses on measurement of Nati-interferon antibodies. This is a studied dynamically and correlated with the clinical and MRI effect. Dr. Oger is consulting member of NAB studies groups from MS Consortium, Biogen, Serono and Shering/Berlex.

**Neuromuscular Diseases Program**

The Neuromuscular Diseases Unit (NMDU) moved to the 3rd floor of Willow pavilion in March 2002. At that time the UBC Myasthenia Gravis clinic was relocated to this site. The VH Myasthenia Gravis clinic and the ALS clinic continue to be the principal site in British Columbia for tertiary referral and care of patients with these conditions. The Myasthenia clinic saw approximately 60 new patients and the ALS clinic 100 new patients in 2002 from all parts of BC.

Dr. Andrew Eisen, as president of the Xth International Congress on Neuromuscular Disease, hosted a superb meeting in Vancouver in July 2002. Delegates from 60 nations attended, and the scientific program was extensive. Dr. Eisen travelled to Bangkok, Barcelona, Brazil and Australia as an invited guest speaker, talking on various aspects of ALS. He is now editing a volume “Clinical Neurophysiology of Motor Neuron Disease” for the international Handbook of Neurophysiology. Dr. Eisen continues in his scientific research in ALS and has recently been awarded a substantial grant for Stem Cell research in human subjects with ALS.

Dr. Charles Krieger continues to study the role of protein kinases and phosphatases in amyotrophic lateral sclerosis and animal models of this disease, as well as the role of repetitive firing of neurons within the nervous system. During 2002 he took a 6 month sabbatical leave at University College, London, to study simultaneous imaging of Calcium and mitochondrial function using various probes. Dr Kreiger is currently supported in part by a Clinical Investigator Award from VHHSC and by the Natural Sciences and Engineering Research Council of Canada.

Dr. Michelle Mezei continues to be very active in the Neuromuscular Diseases Unit, the Adult Metabolic Diseases Unit and the UBC Neurogenetics Clinic. In the NMDU she has been developing teaching programs, and has been supervising the resident and medical student teaching rotations. During 2002 she presented platform and poster presentations on “Familial ALS presenting as Primary Lateral Sclerosis and classical ALS”, and “Predictive
Testing in Familial ALS” at BC Neurosciences Day, Canadian Congress of Neurological Sciences Annual Meeting, and the Xth International Congress on Neuromuscular Disease. Dr. Mezei will be the UBC site principal investigator in two upcoming NIH funded multinational trials: “Thymectomy trial in non-thymomatous myasthenia gravis” and “A Phase III Study of Dronabinol in ALS”.

Dr. Gillian Gibson continues as the Administrative Director of the neuromuscular unit and is overseeing several diabetic neuropathy trials. The focus of her practice continues to be immunologic diseases of the peripheral nervous system and muscle.

**Neuro-Oncology Program**

Neuro-Oncology program is a multidisciplinary program involving Neurology, Neurosurgery, Medical Oncology and Radiation Oncology. Dr. Brian Thiessen represents the Neurology Division in this program and is head of Systemic Therapy for the provincial CNS tumour site group. Dr. Thiessen also is on the CNS site group executive for NCIC and a member of both the Canadian Brain Tumour Consortium and the Canadian Brain Tumour Network.

Research activities predominantly center around investigating new treatments for glioma. Currently Dr. Thiessen holds a NCIC Terry Fox New Initiatives Grant to investigate the role of integrin-linked kinase in glioma models and the potential therapeutic role of agents designed to block this growth control enzyme. Additionally, the CNS group has been recently involved in a combined EORTC-NCIC study in glioblastoma multiforme comparing radiation alone with radiation combined with temozolomide. New potential studies on the horizon involve local injection of reovirus into recurrent brain tumours as well as a study looking at the role of dalteparin in DVT prophylaxis in brain tumours.

Other research endeavors include investigating the role of molecular genetics in gliomas and Dr. Thiessen has just had a paper accepted to the Journal of Neuro-Oncology entitled “Loss of Heterozygosity for Loci on Chromosomes 1p and 10q in Oligodendrogial Tumors: relationship to outcome and chemosensitivity.”

**Pacific Parkinson’s Research Centre**

**Teaching**

The Movement Disorders Clinic provides ambulatory teaching to medical students and to residents in neurology, geriatrics, psychiatry and family medicine. During 2002, there were 3 post-residency fellows working in the Clinic, from the United States, India and Saudi Arabia.

Faculty members of the Pacific Parkinson’s Research Centre participate in the Brain & Behaviour course and provide training to trainees at the MSc. and PhD. levels in the
Experimental Medicine and Graduate Neuroscience programs. Dr. Stoessl runs the Motor Systems module of the Systems Neuroscience (Neuroscience 501) core course in the Graduate Neuroscience program. Faculty members within the Centre serve as mentors in the CIHR-funded Neuroscience Training Initiative.

Research

The Centre continues to hold a Group Grant from the CIHR, with multiple projects funded. These include studies on the Natural History and Progression of Parkinson’s Disease (Drs. Lee & Calne, PIs), Mechanisms of Fluctuations in Response to Dopaminergic Therapy (Dr. Stoessl), Mechanisms of and Compensatory Responses to Chronic Dopaminergic Therapy (Dr. Doudet), Occupational Risk Factors in Parkinson’s Disease (Dr. Tsui), Mechanisms of ECT (Dr. Doudet) and 2 projects on Mechanisms of Dyskinesias (Drs. Lee & Stoessl).

The Centre has also performed the imaging for a major NIH-funded study on fetal mesencephalic transplantation for Parkinson’s disease (Dr. Warren Olanow, Mt. Sinai School of Medicine, New York, PI) and had extensive collaborations with other centers in Canada, the United States, Japan and Germany, largely related to neurogenetic studies of Parkinson’s and other movement disorders.

The backbone of the Centre’s research program continues to be the close partnership with the UBC-TRIUMF PET program (Drs. Adam, Ruth and Sossi). This activity will increase even further with the expected delivery of a high resolution, high sensitivity human PET camera as well as a microPET device in 2003. Dr. Sossi was awarded a Michael Smith Foundation for Health Research Scholarship. In addition, there are extensive interactions between Centre researchers and other UBC investigators, especially in Psychiatry (Drs. Phillips, Yatham).

In 2002, there was massive international publicity for the Centre for 2 separate stories. One was related to the airing of a national television program on Parkinson’s disease, in which Centre investigators figured prominently. The identification by Dr. Calne of ‘clusters’ of patients with Parkinson’s is leading to new programs. The other story was the continued interest in Centre work on mechanisms of the placebo effect, resulting in high profile review articles and multiple invitations to speak at international meetings.

Clinical trials are ongoing, and include studies of anti-apoptotic agents to slow the progression of Parkinson’s, a novel dopamine receptor subtype antagonist for management of dyskinesias, an adenosine receptor antagonist for treatment of fluctuations in motor function, and studies of a novel strain of botulinum toxin for the management of focal dystonia.

Clinical

The Movement Disorders Clinic provided more than 3,500 outpatient visits during 2002. The majority of these are for patients with Parkinson’s disease or focal dystonia. Patients seen in the clinic represent an enormous resource for participation in clinical trials and other, more
fundamental research studies. As in other areas of the health care system, the extremely restricted availability of inpatient beds has meant that even further emphasis must be placed on outpatient care. The program is heavily supported by nurse coordinators, who provide education and counseling to patients, families and other health care professionals. The contributions of Susan Calne to the education and management of Parkinsonian patients throughout the country were recognized this past year by membership in the Order of Canada.

**Epilepsy**

The Epilepsy Program has been very active in the past year. Unfortunately there were two resignations during this period. Dr. Joe Barrash who was with us for a year, for personal reasons has returned to Iowa while Noah Silverberg, a technician resigned in order to go back to University and work towards his PhD.

Active recruitment efforts are underway to have a neuropsychologist with expertise in epilepsy join the program. Michele Kayne, an excellent psychometrist has been hired to assist Dr. Ranata Harland who is currently providing neuropsychological programmatic support. We have operated on approximately 30 surgical cases in the past year, a remarkable accomplishment given the limited O.R. resources, cutbacks and hospital bed closures.

Clinical Research continues along the lines of investigational drug studies.

Dr. Jones and Dr. Javidan have been active in CME Programs around the Province. Both Dr. Jones and Dr. Javidan were charged with the organization of putting on major symposium courses at the recent June 2002 Canadian Meeting held here in Vancouver.

The Epilepsy Program has also been active in an Outreach Program to both Dawson Creek and Nanaimo, primarily dealing with those patients who are severely challenged and for whom it would cause great inconvenience to have to travel to Vancouver. These are usually totally dependent and non-verbal patients. Dr. Jones has been particularly committed to this activity, trying to fill a tremendous unmet need.

Dr. Javidan has organized a formal scientific course on epilepsy for the residents that has been given on a weekly basis over a three-month period involving many members of the Division, both here and at the Children’s Hospital.

**Basic Neurosciences**

A number of divisional members are basic neuroscientists with a diverse range of interests. Dr. Yu Tian Wang and his laboratory have been extremely productive with numerous innovative papers having been accepted for publication in the highest impact Neuroscience journals. His grant reviews have been enviable with uniform funding success achieved. His research interests are currently centered on glutamate physiology and GABA a receptors with
investigation of both their function and dysfunction in the CNS. In particular he and his research lab are interested in understanding molecular mechanisms responsible for the intracellular trafficking and plasma membrane targeting of these receptors and the manner by which they are altered in disease. Future directions include the design and development of new therapeutics for epilepsy and stroke.

Dr. Steven Pelech, Ph.D. is a professor with a multi-disciplinary research program focused on mapping intracellular signal transduction systems involving protein kinases. Defects in protein kinase signalling has been linked with over 400 diseases including cancer, diabetes and Alzheimers. Dr. Pelech's research group is developing unique proteomics methodologies to track hundreds of signalling proteins to uncover disease markers for diagnostics and therapeutic drug targets. Some of these proprietary methods have been licensed and offered as commercial services by the UBC-spinout company Kinexus Bioinformatics Corporation of which he is the president and chief scientific officer. Last year, Dr. Pelech's research revealed profound changes in the expression levels and phosphorylation states of wide range of protein kinases in the spinal cords of ALS patients. These differences were distinct from the results of their analysis of the protein kinases in spinal cords of superoxide dismutase gain of function transgenic mice, which is a leading animal model for ALS.

Neuropsychology Research

Dr. Jeff Martzke appointed to the Division of Neurology in 2002 was awarded a Vancouver Hospital Foundation grant for two years to study the neurobehavioral effects of subthalamic nucleus stimulation in Parkinson’s disease. He is the Principal Investigator on the study in collaboration with Dr. Chris Honey of the division of Neurosurgery as Co-investigator.

Appointments and Promotions

Dr. Jeffrey Martzke was appointed as Clinical Assistant Professor from April 1, 2002 Dr. Robert Stowe and Dr. Blair Leavitt were appointed as associate members of the Division in 2002.

Special Honours and Awards

Dr. Robert Keyes won the 2002 Award of the Faye Dirks Award for Excellence in Clinical Teaching by the UBC Department of Medicine

Dr. Doris Doudet was awarded the supervisor of recipient of Summer Student Award from the Faculty of Medicine 2002.

Dr. Doris Doudet was appointed as member of MSFHR Biomedical Research Committee for Senior Scholar and Scientist and VHHSC Interdisciplinary Research Grants Committee and also appointed as External Reviewer for CIHR – Behavioural Sciences B – 2002.
Dr. S.U. Kim was awarded the Ilchon Research Award (Korean Society for Molecular and Cellular Biology) on October 18, 2002 and the Gold Medal Award in Medical Science (Korean Academy of Science and Technology) on November 21, 2001. Dr. S.U. Kim was elected to Fellow, Korean Academy of Science and Technology on March 1, 2002.

Dr. Charles Krieger was awarded the VHHSC Clinical Investigator Award 2002. Dr. Krieger was appointed as chair for sessions at the Xth International Congress on Neuromuscular Disease held in Vancouver July 2002. Dr. Krieger was appointed as reviewer for journals: J. Neuroscience, Brain Research, Neurochemistry Int. 2002-2003.

Dr. Donald W. Paty was awarded the Jerzy Olszewski Guest Lecturer, Canadian Association of Neuropathologists symposium on: “Diagnosis and Management of MS: an MRI Perspective”. Vancouver, Canada on October 5, 2002.

Dr. Lynn Raymond won the CIHR Investigator award through June 2002 and the Vancouver Hospital Foundation Scientist Award from July 2002 – present.

Dr. Thomas J. Ruth was appointed as reviewer of the journals of Radiochimica Acta – Advisory Board; Journal of Nuclelar Medicine; Physical Review; Journal of Neurochemistry; Applied Radiation and Isotopes; Nuclear Medicine and Biology; Physics in Medicine and Biology; Encyclopedia of Applied Physics; Journal of Labeled Compounds and Radiopharmaceuticals.

Dr. Sadovnick was awarded the Michael Smith Distinguished Scholar from 2001-2006.

Dr. J. Stoessl was awarded the Queen Elizabeth Golden Jubilee Medal Vancouver Hospital Award for Research 2002.

Dr. Y.T. Wang was awarded the prestigious Howard Hughes Medical Institute International Scholar Award and the Michael Smith Foundation for Health Research Senior Scholar Award for 2002-2006. Dr. Wang was also awarded The Excellence in Research Award, Department of Medicine, VGH and UBC 2002.

Dr. Howard Feldman was appointed to the editorial boards of Dementia and Geriatric Cognitive Disorders (2002), Journal of Neurological Sciences (2002), and Brain Aging (2001). He was visiting professor at the University of Milan and the University of Ottawa in 2002. He began an appointment as a member of the Specialty Committee in Neurology for the Royal College of Physicians and Surgeons.

Dr. Lorne Kastrukoff had the opportunity for a sabbatical in 2002 at which time he arranged to do laboratory studies in Melbourne in the laboratory of Dr. Frank Carbonne in the Department of Immunology and Microbiology at the University of Melbourne.
Dr. Duncan Anderson was appointed President of the Canadian Ophthalmology Society from 2002 - 2004.
**PHYSICAL MEDICINE & REHABILITATION**

*Dr. Theo van Rijn,* 
Clinical Assistant Professor & Head

**Faculty Members**

- Clinical Associate Professor Anton, Dr. Hubert VHHSC
- Clinical Associate Professor Hahn, Dr. George VHHSC
- Clinical Associate Professor Schamberger, Dr. Wolfgang Burnaby
- Clinical Assistant Professor Dhawan, Dr. Pankaj VHHSC
- Clinical Assistant Professor Hirsch, Dr. Gabriel VHHSC
- Clinical Assistant Professor Jung, Dr. Susan VHHSC
- Clinical Assistant Professor Mortifee, Dr. Peter VHHSC
- Clinical Assistant Professor Townsend, Dr. Andrea VHHSC
- Clinical Assistant Professor Travlos, Dr. Andrew VHHSC
- Clinical Assistant Professor Van Rijn, Dr. Theo VHHSC
- Clinical Assistant Professor Vondette, Dr. Michael VHHSC
- Clinical Assistant Professor Wee, Dr. Joy VHHSC
- Clinical Assistant Professor Weeks, Dr. Claire VHHSC
- Clinical Instructor Adrian, Dr Mark VHHSC
- Clinical Instructor Dawson, Dr. Andrew VHHSC
- Clinical Instructor Hughes, Dr. Barbara VHHSC
- Clinical Instructor Koo, Dr. David VHHSC
- Clinical Instructor Lau, Dr. Herman St. Paul’s
- Clinical Instructor Reebye, Dr. Nittin VHHSC
- Clinical Instructor Underwood, Dr. Heather VHHSC
- Clinical Instructor Weiss, Dr. Elliott St. Paul’s
- Clinical Instructor Willms, Dr. Rhonda VHHSC
- Clinical Instructor Yao, Dr. Jennifer VHHSC
- Honorary Professor Kaplan, Dr. Paul
- Professor (Emeritus) Murray, Dr. Duncan
- Clinical Professor (Emeritus) Robinson, Dr. Cecil
- Clinical Associate Professor (Emeritus) Pinkerton, Dr. Alexander C

**Divisional Overview**

The Division of Physical Medicine and Rehabilitation at UBC currently has twenty members who are involved with patient care, teaching and research. Our members consult and provide rehabilitation services to persons ranging from the very young to the very old. We manage both inpatients and outpatient programs for persons who have suffered spinal cord injury, acquired brain injury, neuromuscular abnormalities and cardio/pulmonary dysfunctions. Inpatient services are provided at several sites including Vancouver Acute/GF Strong Rehab Centre, St. Paul’s Hospital/Holy Family Hospital, Eagle Ridge Hospital as well as
consultation services to the Vancouver teaching hospitals, Royal Columbian Hospital and Burnaby General Hospital. Our staff are actively involved in teaching of residents and undergraduate students, as well as undergraduate students in related disciplines.

**Teaching**

Dr. Drew Dawson was the Residency Program Director until June 2002 and then was succeeded by Dr. Theo van Rijn. The Residency Training Program is being revised in order to reflect the Royal College CanMEDS 2000 requirements for training physicians. The new curriculum also reflects residents’ wishes to have more problem-based learning; it will continue to evolve over the next few years in order to reflect these changes.

Dr. David Koo succeeded Dr. Joy Wee as our Undergraduate Co-ordinator. Six of our Division members participated in problem-based learning, clinical skills sessions in musculoskeletal and brain behavioural blocks, as well as lecturing on disability/impairment. We had several medical student electives over the year and one summer studentship who researched problem-based learning strategies.

Dr. Pankaj Dhawan co-ordinated our continuing medical education program, addressing areas of interest our Divisional members have expressed in surveys of our members. All staff, on a rotational basis, take part in presenting at City Wide Rounds; any PowerPoint presentations used have been stored and are available on the Divisional web-site at [www.ubcphysmed.org](http://www.ubcphysmed.org).

Dr. Dhawan has held several workshops on musculoskeletal injections (including joints and trigger points) in both Canada and the United States. He also did a talk for the Workers’ Compensation Board on Mild Traumatic Brain Injury. Dr. Anton presented one talk at Medical Grand Rounds at Vancouver Hospital; another talk to the Dutch Society of Physiatrists who were meeting here in Vancouver. Dr. George Hahn did presentations at Sunny Hill Hospital’s weekly academic sessions regarding end of life decision making as well working with Neurosurgery residents regarding the ethics of Neurosurgery. Dr. Peter Mortifee has presented several different topics ranging from musculoskeletal problems to those dealing with implications of an ageing population on the workforce. Dr. Claire Weeks co-chaired the local arrangements committee for the highly successful and first ever combined American Spinal Injury Association and the International Spinal Committee meeting in Vancouver.

**Research**

For a small clinical Division, our members have been involved in several local, national and international research projects. Several of the physiatrists working on the Spinal Cord Program are involved in multi-centre international studies regarding assessment of the level of independence in someone with spinal cord injury, headed by investigators, Drs. Claire Weeks and Andrea Townson. Dr. Townson is also involved in a project regarding
intramuscular stimulation for pain following spinal cord injury funded by ICORD. Dr. Barbara Hughes is looking at use of Fampridine-SR for spasticity in spinal cord injury. Dr. Hugh Anton was involved in a study (which was published in the Archives of Physical Medicine and Rehabilitation) regarding evaluation of Captopril for autonomic dysreflexia. Dr. Peter Mortifee was an investigator of the educational needs of Canadian physiatrists (published in the Annals of the Royal College of Physicians and Surgeons). Finally, Dr. Heather Underwood has been involved in a project looking at the effects of alignment and interface materials in prosthetic design for certain types of amputations.

Clinical Services

Dr. Constance Acob retired in 2002 after serving many years at GF Strong Rehab Centre and with the UBC Division of Physical Medicine and Rehabilitation. Dr. Jennifer Yao was successfully recruited as a physician on the Spinal Cord Program for the GF Strong Rehab Centre. Drs. Rhonda Willms and Heather Underwood completed a National ‘Wound Care Management’ training course.

Administration

Dr. Hugh Anton completed his second term as the UBC Divisional Head and the Medical Director of GF Strong Rehab Centre. He was succeeded by Dr. Theo van Rijn in July, 2002. Dr. van Rijn has been involved with an ongoing process of evaluating rehabilitation services in the Regional Health Authority. Dr. van Rijn has also been working with staff to revise the Division’s postgraduate academic teaching program as well as planning for increased Divisional teaching responsibilities with the expansion of the UBC Medical Undergraduate Program.

Future Directions

Our Division held a retreat in November 2002, and formed three working groups dealing with research themes, funding issues and promotion. These groups subsequently have met to determine deliverables that can be provided over a period of three years. The Division would like to proceed with plans to obtain sufficient funding to support two full-time researchers. As we have many Divisional members who are excellent teachers who wish to be part of the medical school expansion and training of young students, the Division would also like to support members who wish to obtain more training in education.

Members of our Division will also be participating actively with improving care access for persons with disabilities, both in hospital and in various community ventures being planned for the future.
Special Honours and Awards

Dr. Andrea Townson successfully completed her American Subspecialty Boards in Spinal Cord Injury; one of the first persons in Canada to do such. She will be working with other members of the Spinal Service at Vancouver Hospital/GF Strong Rehab Centre with ICORD and The Rick Hansen Institute in developing best practices for persons with spinal cord injuries and a community network of care.
RESPIRATORY MEDICINE

Dr. John Fleetham,
Professor and Head

Faculty Members

Professor   Bai, Dr. Tony   St. Paul's
Professor   FitzGerald, Dr. J. Mark   VHHSC
Professor   Fleetham, Dr John   VHHSC
Professor   Lam, Dr. Stephen   VHHSC
Professor   Ostrow, Dr. David   VHHSC
Professor   Pare, Dr. Peter   St. Paul's
Professor   Road, Dr. Jeremy   VHHSC
Professor   Yeung, Dr. Moira   VHHSC
Associate Professor   Duronio, Dr. Vincent   VHHSC
Associate Professor   Khalil, Dr. Nasreen   BCCDC
Associate Professor   Levy, Dr. Robert   St. Paul's
Associate Professor   Ryan, Dr. Francis (Frank)   VHHSC
Associate Professor   Van Eeden, Dr. Stephan   St. Paul's
Associate Professor   Ward, Dr. Helen   VHHSC
Associate Professor   Wilcock, Dr. Pearce   St. Paul's
Assistant Professor   Ayas, Dr. Najib   VHHSC
Assistant Professor   Sandford, Dr. Andrew   St. Paul's
Clinical Professor   Champion, Dr. Paul   VHHSC
Clinical Professor   Lawson, Dr. Lindsay   St. Paul's
Clinical Associate Professor   Elwood, Dr. Richard   BCCDC
Clinical Associate Professor   Nakielna, Dr. Barbara Edina   St. Paul's
Clinical Assistant Professor   Fera, Dr. Tharwat   VHHSC
Clinical Instructor   Wilson, Dr. Jennifer   VHHSC
Honorary Professor   Lertzman, Dr. Morley
Associate Member   Brauer, Dr. Michael
Associate Member   Lowe, Dr. Alan
Associate Member   Muller, Dr. Nestor
Associate Member   Roberts, Dr. Clive
Professor (Emeritus)   Abboud, Dr. Raja   VHHSC
Professor (Emeritus)   Bates, Dr. David
Clinical Professor (Emeritus)   Allen, Dr David
Divisional Overview

The UBC Respiratory Division consists of 27 faculty members who are located at Vancouver Hospital, St. Paul’s Hospital, Vancouver Cancer Centre, BC Centre for Disease Control and BC Transplant Society. There are respiratory medicine in-patient and ambulatory care programs at Vancouver Hospital and St. Paul’s Hospital. The two year subspecialty respiratory medicine training program accepts one trainee per year. Respiratory Medicine is considered a centre of research excellence at both St. Paul’s Hospital and Vancouver Hospital. Respiratory Medicine is a major component in the iCapture Centre primarily based at St. Paul’s Hospital. Respiratory Medicine is the primary component of the Respiratory and Critical Care Research Program at Vancouver Hospital. The UBC Respiratory Division proposes to develop a strategic plan for clinical care, research and teaching of Respiratory Medicine within the Vancouver Coastal Health Authority and UBC, which incorporates an academic funding contract for all divisional members.

Teaching

Undergraduate Teaching: The UBC Respiratory Division continues to have a major responsibility for the five week pulmonary block in the new undergraduate curriculum. Dr. Frank Ryan continues as Chair of the Pulmonary Block. Division members participate in undergraduate teaching either as tutors or clinical skills instructors.

Postgraduate Teaching: The UBC Respiratory Medicine Training Program, directed by Dr. P. Wilcox, continues to attract a large number of highly qualified applicants from across Canada. The program has full approval from the Royal College. This two year clinical program is based at both Vancouver Hospital and St. Paul's Hospital. There are elective opportunities at community based centres throughout BC and the program offers an optional third year of research training. Our current trainees are Dr. W. Davidson (Vancouver), Dr. M. Al Bader (Kuwait), Dr. F. Al Enezi (Kuwait) and Dr. G. Alvarez (Ottawa). The UBC Respiratory Division would like to expand the number of trainees from one to two per year and would also like to offer a three year combined fellowship program in Respiratory Medicine/Critical Care Medicine.

Experimental Medicine: The UBC Respiratory Division continues to make significant contributions to the Departmental Experimental Medicine program with MSc. and PhD students being trained in both the Jack Bell Research Laboratory at Vancouver Hospital and the iCapture Centre at St. Paul's Hospital.

Continuing Medical Education: Dr. Mark FitzGerald is primarily responsible for continuing medical education within the UBC Respiratory Division and organizes a three day annual international CME course on critical care and respiratory in spring at Whistler. A weekly research seminar series for the UBC respiratory community is held between September-May. Division members are very active in CME in a large variety of provincial, national and international forums.
Research

Respiratory Medicine is considered a centre of research excellence at both St. Paul’s Hospital and Vancouver Hospital. Respiratory Medicine is a major component in the iCapture Centre primarily based at St. Paul’s Hospital. Respiratory Medicine is the primary component of the Lung and Critical Care Research Program at Vancouver Hospital. The iCapture Centre was created with CFI funds to examine how abnormal genes change the structure and function of cells, tissues and organs to cause lung disease. The major respiratory medicine research interests at the Vancouver Hospital Lung and Critical Care Research Program are respiratory sleep and neuromuscular disease, environmental and occupational lung disease and emphysema. The prevention and early diagnosis of lung cancer is the primary research focus at the Vancouver Cancer Centre and research into tuberculosis and mycobacterial disease is the major interest at the BC Centre for Disease Control. Research in lung transplantation takes place at both Vancouver Hospital and the BC Transplant Society.

Clinical Services

Active respiratory medicine in-patient and ambulatory care programs continue at both Vancouver Hospital and St. Paul's Hospital. Ambulatory care space is planned within St. Paul’s Hospital for the members of the St. Paul’s Hospital Respiratory Division. The Respiratory inpatient beds at Vancouver Hospital will move to a combined 40 bed Respiratory Medicine/Thoracic Surgery ward, June 1st 2003, in the 12th floor of the J. Pattison Tower. Dr. Najib Ayas joined the UBC Respiratory Division on September 1st 2002 as an Assistant Professor and is an active member of the Vancouver Hospital Respiratory Division.

Administration

Dr. John Fleetham remains the Head of the UBC and Vancouver Hospital Respiratory Divisions. Dr. Robert Levy was appointed Head of the SPH Respiratory Division on September 1st 2002. Bernice Robillard continues to work to support the activities of the UBC Respiratory Division with major responsibilities for the postgraduate program.

Future Directions

The UBC Respiratory Division would like to develop a strategic plan for clinical care, research and teaching of Respiratory Medicine within the Vancouver Coastal Health Authority and UBC, which incorporates an academic funding contract for all divisional members.

Special Honours and Awards

Dr. David Bates, Professor Emeritus, received the Order of Canada. Dr. Peter Pare was the recipient of the Queen’s Jubilee Medal. Dr. Stephan van Eeden was awarded the William
Thurlbeck Distinguished Researcher Award. Dr. Stephen Lam received the Gustav Killian Centenary Award. Dr. Mark FitzGerald was promoted to Professor of Medicine and also received a CIHR/BCLA Senior Investigator Award. Dr. Najib Ayas was awarded a CIHR/BCLA New Investigator Award.
**RHEUMATOLOGY**

*Dr. John M. Esdaile,*  
*Professor & Head*

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**Faculty Members**

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<th>Professor</th>
<th>Esdaile, Dr. John</th>
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<td>Associate Professor</td>
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**Divisional Overview**

The UBC Division of Rheumatology consists of 18 faculty members located at Vancouver Hospital and Health Sciences Centre, St. Paul’s Hospital, G.F. Strong Rehabilitation Centre, B.C. Women’s Hospital and Health Centre, and Holy Family Hospital (until the closure of its arthritis unit this year). Many VGH and St. Paul’s faculty, in addition to their private practices, provide ambulatory care in the Mary Pack Arthritis Program’s outpatient drug and disease monitoring clinics and traveling consultation services in 28 rural locations around the province.
The two year Postgraduate Training Program in Rheumatology is currently the second-largest rheumatology training centre in Canada. The Division is allotted one trainee per year by the University, but has been successful in obtaining additional funding. Currently, there are 9 trainees.

Many divisional faculty are members of the Arthritis Research Centre of Canada, a multidisciplinary clinical research and clinical trials facility which includes faculty from Rheumatology, Orthopaedics, Epidemiology and Health Care and the School of Rehabilitation Sciences. The centre focuses on "Practical Research for Everyday Living" for people with arthritis.

The Division of Rheumatology’s faculty had an exceptional year. An internet website for the undergraduate program, a novel intensive introductory course for new postgraduate clinical fellows, a major increase in research funding, the receipt of funding for a substantial new scholarship award, and a number of prestigious awards to the faculty have made the year a memorable one. The faculty has participated extensively in all aspects of the program. The presence of bright enthusiastic trainees suggests a bright future for rheumatology in British Columbia.

Teaching

**Undergraduate Teaching:** Undergraduate teaching is directed by Dr. Simon Huang. The Patient Partners program continues to be a valuable component to undergraduate teaching. The Division’s clinical fellows played a prominent role in Rheumatology PBL tutoring. The members of the Division are concerned about how they will be able to expand undergraduate teaching should the medical school expansion occur on time.

A website (www.rheumweb.com) to provide a 21st century mechanism for undergraduate students to learn more about the rheumatology program was developed by Dr Kam Shojania. The site, which has had more than 50,000 hits in the past eighteen months, is the subject of a Canadian Rheumatology Association presentation in February 2003 and led to Dr. Shojania being appointed the Chair of the Canadian Rheumatology Association Website Committee.

**Postgraduate Teaching:** The Postgraduate Training Program continues to be led by Drs. Kenneth Blocka, Graham Reid and John Esdaile at SPH, GF Strong and VHHSC, respectively. The postgraduate program includes four first-year fellows and four second-year fellows, a third year clinical fellow, one Masters candidate and two doctoral candidates. The clinical trainees have been involved in outreach clinics to Trail and Cranbrook and the expectation is that this program will expand to the Queen Charlotte Islands, Fort St. John, Alert Bay and Courtney. All of the clinical fellows underwent a mock oral exam with the visiting Royal College examiner, Dr. Carter Thorne, and a local faculty member, Dr. John Kelsall.
The postgraduate program has benefited from a number of visiting professors including, Halsted Holman (Stanford University), Charlie Goldsmith (McMaster University), Gillian Hawker (Royal College Visiting Gold Medalist, University of Toronto), Jack Cush (University of Texas), George Spencer-Green (University of Washington), and Paul Davis (University of Alberta).

For the second year, a basics skills course for rheumatology fellows was given in the first week of July to provide detailed instruction on the clinical examination of the musculoskeletal exam, as well as the essentials of emergency arthritis care. The course was organized by Dr. Kam Shojania and involved the majority of the faculty.

**Continuing Medical Education:** The Division’s involvement in continuing medical education this year included an Arthritis Update for family physicians in November 2002 and divisional involvement in the Department of Medicine’s annual CME.

**Public Education:** Public education included the publication of two books on arthritis. Rheumatoid Arthritis: Plan to Win was published by Oxford University Press (C Koehn, T Palmer, J Esdaile). Living Well With Arthritis was published by Penguin/Putnam (D Mosher, H Stein, a recently retired division member, and G Kraag). Both books have received critical acclaim in the arthritis community and by patients.

**Research**

The division has been very involved in the development of the Arthritis Research Centre of Canada, since its founding in April 2000. The centre now includes faculty members from the Division of Rheumatology, the Department of Orthopedics, the Department of Epidemiology and Health Care, and the School of Rehabilitation Sciences. It has collaborative links with the Division of Clinical Epidemiology at the Vancouver Hospital and the Centre for Health Evaluation and Outcome Studies at St. Paul’s Hospital. In 2002, the Arthritis Research Centre received notification of more than $1,000,000 in funding from peer-review agencies. At the national meeting of the American College of Rheumatology, November 2002, junior faculty and trainees had the largest number of podium presentations in the Division’s history.

Dr. Kam Shojania was appointed the Director of Clinical Trials for the Division. With the collaboration of Drs. Blocka, Chalmers, Dutz, Ensworth, Huang and Klinkhoff, the group is expanding access to novel modalities for persons with arthritis in BC. Dr. Shojania has served on the Steering Committee of the Canadian Rheumatology Research Consortium, a newly-formed group that should expand Canada’s presence in international arthritis clinical trials in the coming years.

Dr. Ian Tsang, the Director of Traditional Chinese Medicine for the Arthritis Research Centre of Canada, presented research findings at the Sixth World Congress of Integrative Medicine in Beijing, and was an invited speaker at two other conferences in China.
Merck-Frosst Canada committed $1,000,000 towards an Arthritis Research Centre scholarship. The sum will be paid in installments over five years. The Board of the Arthritis Research Centre will raise an additional $1,500,000 over this time period.

Clinical Services

The Mary Pack Arthritis Program has initiated an infliximab infusion clinic that provides services to persons with arthritis and Crohn’s disease. A new combined rheumatology-oral medicine clinic has been started in collaboration with the Faculty of Dentistry. This addition to the traditional rheumatology-orthopedic combined clinics will provide improved clinical services and a new teaching facility for rheumatology and oral medicine trainees. Finally, the Mary Pack Arthritis Program has developed a new fibromyalgia self-management program that fills a major clinical need.

Special Honours and Awards

Dr. Andrew Chalmers received the prestigious Killam Prize for teaching. Dr. Chalmers, as Associate Dean of Undergraduate Studies, played a leadership role in the reformulation of the curriculum and has had a longstanding interest in improving teaching methods at both a divisional and a faculty level.

Dr. Jolanda Cibere received a CIHR Clinician Scientist Fellowship Award to continue her doctoral studies on osteoarthritis.

Dr. John Esdaile was the Wallace Epstein Visiting Professor of Clinical Research at the University of California, San Francisco.

Dr. Barry Koehler received the Canadian Rheumatology Association Distinguished Rheumatologist Award. This national award recognizes Dr. Koehler’s many contributions to the rheumatology community Canada-wide, his medical leadership of the Mary Pack Arthritis Program, his support of the UBC teaching program and his role as rheumatologist extraordinaire in BC.

Dr. Matthew Liang, Harold Robinson Visiting Professor of Rehabilitation Sciences and Visiting Professor within the Division of Rheumatology, received the American College of Rheumatology Distinguished Clinical Investigator Award and the Kirkland Scholar Award.

Dr. Kam Shojania received the Donald M. Whitelaw Award for the best grand rounds presentation at the Vancouver Hospital. In addition, he joined the Executive of the Canadian Rheumatology Association
EDUCATIONAL PROGRAMS
CONTINUING MEDICAL EDUCATION PROGRAM

New Initiatives/Developments

The main initiative for 2002 was our “Medicine in the 21st Century” Conference held June 13th – 15th at the Delta Pinnacle Hotel. This was the second year the Department held this course without the co-sponsorship of the American College of Physicians-American Society of Internal Medicine. Thirty-one UBC Faculty participated in the course which was presented to 142 attendees primarily from Canada and the United States.

We were extremely pleased with the attendance and quality of the course. Once again, the speakers were evaluated highly as was the course content. It is our hope and intention to continue to offer this course on an annual basis and to maintain the high quality as well as to continue increasing attendance.

We are currently in the process of coordinating our 2003 program which is scheduled to be held June 5 – 7, 2003 at the Sutton Place Hotel in downtown Vancouver. In the past two years we have been fortunate to have Dr. Rein Bernat as a contributing member, working on behalf of Family Practice, who has helped maintain the Family Practice focus of this conference. In 2002 Dr. Bernat moved on to a new position in the Middle East and has been replaced by Dr. Norman Stanley. With the help of Dr. Stanley, for this currently in-progress event, we are able to continue to offer this course to Family Practitioners across the country.

We anticipate another successful event this year and would like to take this opportunity to thank the Faculty Members who have contributed to the conference in the past years and continue to work with the Department to help ensure an excellent quality program.
Experimental medicine is the graduate studies program, within the Department of Medicine, which was developed to train individuals seeking a career in medical research. Students are enrolled in both MSc and PhD degree programs. Subspecialties within the Experimental Medicine Program include Cancer Biology, Cardiology, Dermatology, Gastroenterology, Haematology/Oncology, Immunology, Infectious Diseases, Molecular Biology, Nephrology, Neurology, Pediatrics, Physiotherapy and Respiratory Medicine. In 2002, 24 new students were admitted to the program. At the end of 2002, there were 84 students registered in the program, 40 for MSc degrees and 44 for PhD degrees.

During 2002, a total of seven students graduated, four at the May 2002 Convocation and three at the November 2002 Convocation. Student names and thesis titles are listed below (research supervisor in parenthesis):

**PhD Graduates**

Jason Bush, *Enhancing drug sensitivity in melanoma cells through pro-apoptotic pathways that subvert chemoresistance mechanisms* (Dr. Gang Li)

Anthony Marotta, *Dysregulation of integrin-linked kinase (ILK) signaling during colorectal carcinogenesis: modulation of signaling pathways by non-steroidal anti-inflammatory drugs (NSAID)* (Dr. Bill Salh)

Mohamed Sayed, *Regulation and Function of Protein Kinase CK2 in Cancer Cells* (Dr. Bill Salh)

**MSc Graduates**

Eshan Davani, *The importance of cytoskeleton in Neutrophil-Cardio-myocyte interaction* (Dr. Keith Walley)

Jahanbakhsh Naghshin, *The time course of length adaptation and tension recovery in airway smooth muscle* (Dr. Peter Paré)

Jennifer Oates, *Thrombopoietin mediated regulation of murine hematopoietic progenitors* (Dr. Connie Eaves)
In 2002, two Experimental Medicine students were awarded University Graduate Fellowships ($16,000 for one year) for a total amount of $32,000. Our students also receive funding from CIHR ($195,700), NSERC ($53,900), the Michael Smith Foundation ($103,200), the BC Science Council ($40,000), the UBC Graduate Entrance Scholarship ($7,580), other external agencies ($92,330), or through Research Supervisor grants ($471,400).

There are 85 faculty members currently registered as Research Supervisors in the program. Faculty members from other departments also participate as course lecturers, thesis committee members, in research seminars and as examiners for internal examinations and theses defenses.

In the academic year 2002, the Experimental Medicine Program offered seven graduate courses. These included: MEDI 501 (Molecular & Cellular Biology), MEDI 502 (Methodology), MEDI 535 (Journal Club), MEDI 548 (Directed Studies in Experimental Medicine), MEDI 560 (Pulmonary Pathophysiology), MEDI 570 (Cardiology), MEDI 580 (Infectious Diseases).

The overall administration of the program is under the guidance of the Experimental Medicine Committee. The committee is composed of representatives from each subspecialty and one student representative. This committee meets four times per year to discuss policy and procedures. Current members of the committee are: Dr. Anthony Chow (Infectious Diseases), Dr. Vince Duronio (Respiratory Medicine), Dr. Keith Humphries (Haematology/Oncology), Dr. Gang Li (Dermatology), Dr. Steve Pelech (Molecular Medicine), Dr. Bill Salh (Gastroenterology), Dr. Joseph Tsui (Neurology), Ms. Alison Wallace (Student Representative), Dr. Keith Walley (Respiratory Medicine), Dr. Norman Wong (Nephrology and Director) and Dr. Graydon Meneilly (ex-officio). The Experimental Medicine Program’s daily administration is through the director and one secretary.

The Experimental Medicine Program continues to sponsor an annual Student Research Day. The event was held on Friday, October 25, 2002 at the Plaza 500 Hotel. 19 students gave oral presentations and 32 students participated in poster presentations. A total of $700 in cash prizes was presented this year. Each award recipient also received a plaque. The prizes this year went to:

Michael Rauh (MD/PhD, Supervisor: Dr. Gerry Krystal) - $300 Best Overall Presentation
Janet Kalesnikoff (PhD, Supervisor: Dr. Gerald Krystal) - $100 Best Oral Presentation
Scott Cameron (PhD, Supervisor: Dr. Anthony W. Chow) - $100 Best Oral Presentation
Joseph Anthony (MSc, Supervisor: Dr. Vincent Duronio) - $100 Best Poster Presentation
Michelle Wong (PhD, Supervisor: Dr. Ralph Durand) - $100 Best Poster Presentation
Financial support for Student Research Day was provided by Allergan Inc., GlaxoSmithKline Inc., Merck Frosst Canada Inc. and the Vancouver Hospital and Health Sciences Centre.

The Experimental Medicine Program continued to offer travel grants to students who had already used the travel grant provided by the Faculty of Graduate Studies. Two travel grants of $500 each were awarded. PhD student Jason Bush attended the annual meeting of the American Association for Cancer Research, San Francisco, California, in April 2002, and PhD student K-John Cheung Jr. attended the annual meeting of the Society for Investigative Dermatology, Los Angeles, California, in May 2002.

The Experimental Medicine Office is located in Room S154, Koerner Pavilion, 2211 Wesbrook Mall, UBC Campus. The office telephone number is 604-822-7215, the fax number is 604-822-7897 and e-mail address is exptlmed@interchange.ubc.ca.
POSTGRADUATE EDUCATION PROGRAM

Dr. Iain Mackie,
Clinical Professor & Director

New Initiatives/Developments

2002 was a year of consolidation and growth of the Internal Medicine Residency Training Program at UBC.

Two major events faced the program in the past year. The first was the Internal Review which was chaired by Dr. Andrew McNab of the Department of Paediatrics. Dr. McNab outlined the progress that had been made in dealing with some of the issues raised by the Royal College Accreditation Survey in 2001. The program had taken the issues addressed by the accreditation survey seriously and major steps were put in place to address the issues. Dr. McNab highlighted these changes to the program. Specifically issues related to service/education ratios on the Clinical Teaching Units had been addressed through an increase in the number of PGY-1 entry positions as well as changes in the structure and function of the CTU’s at both St. Paul’s and Vancouver General Hospitals.

Ambulatory Programs continued to grow both at the Teaching Hospitals as well as Community Clinics, with faculty and housestaff from St. Paul’s Hospital providing Internal Medicine Service to the downtown clinic, and faculty and housestaff from Vancouver General Hospital going to the Vancouver Hospital Peri-Operative Internal Medicine Service.

Communications within the program, between residents and the program administration were dealt with through the intervention of Dr. Larry Axelrod of the Neutral Zone. Dr. Axelrod met with the Postgraduate Education Committee, residents and faculty and helped us address some of the communication barriers that had been pointed out by Dr. McNab and the Royal College Accreditation Survey.

The Internal Medicine Training Program continued its development of community programs for the residency training program. Dr. Steve Wong, the Director of Community Programs, has negotiated teaching sites at six cities around British Columbia (Victoria, Prince George, Kamloops, Nanaimo, Richmond and Maple Ridge). As of February 2003, residents will be assigned to these rotations with the bulk of residents starting their community rotations as of July 2003.

The administration of the program was strengthened by the hiring of Dr. Vinay Dhingra as Associate Director. Dr. Dhingra is a critical care physician and highly rated teacher within the Department of Medicine. He will be responsible for the development of Academic Half-Day and curriculum review as well as other aspects of the program.
The highlight of the academic year continued to be Resident Research Day, held once again at the Sutton Place Hotel. Adjudicators for 2002 included Dr. David Kincade, Community Internist in Kamloops, BC, and a former graduate of the Internal Medicine Residency Training Program and General Internal Medicine Fellowship Program, Dr. Jerry Tenenbaum, Program Director for Internal Medicine at the University of Toronto, and Dr. Garth Warnock, Head of the Department of Surgery at the University of British Columbia. Once again, the quality of research presentations was outstanding and comments from the three adjudicators were unanimous in their praise for the residents who participated in Research Day.

Finally, 2003 will see the rebirth of the Department of Medicine Residency “Whistler Conference”. This is an educational event for all residents in the Department of Medicine to be held at Whistler in March 2003. The conference gives residents and faculty a unique opportunity to participate in high quality educational activities and socialize in a non-academic environment.

The residency program consolidated its training sites by withdrawing residents from the Clinical Teaching Units at UBC Hospital. This occurred in the face of changes to the structure and function of UBC Hospital. Despite the excellent teaching and the learning experience at UBC Hospital, a decision was made to withdraw residents as of January 2003.

In summary, there is a growing optimism within the program that the difficulties of the past few years are behind us. Again, the program thanks Dr. Grady Meneilly, Head of the Department of Medicine, for his support of Resident Education and the difficult decisions that had to be made this year. The program would also like to thank its Program Administrators and staff, Hazel Wilcox, Andrea Toker and Jill Stout for their contributions to the training program and their unique abilities to interact with both residents, medical students and program faculty.
UNDERGRADUATE EDUCATION PROGRAM

Dr. H. Grant Stiver,
Professor and Director

In the 2001-02 semester, the Undergraduate Program continues to be actively involved in the bedside training of Second Year medical students prior to entering the Clinical Clerkship. In the Third Year Clerkship, the National Board of Medical Examiners (NBME) Shelf Examination in Medicine continues to be the written examination administered to Third Year clerks at the end of their eight-week Clinical Teaching Unit (CTU) rotation in Internal Medicine. We are also piloting an out-patient experience at St. Paul’s Hospital in the Third Year, as well as planning for the Medical School Expansion.

Second Year Bedside Clinical Skills: In the 2001-02 academic year, the implementation of the Second year bedside teaching sessions was again well received by both faculty and students. These sessions continue to be one of the highest rated courses in the undergraduate curriculum. We have continued with these sessions this current academic year where students are assigned a patient and perform a complete and focused history and physical examination, reviewed at the bedside by a clinician preceptor who also critiques the student's write-up of the case. The duration of the course this academic year remains the same as last, January to May, 2003.

Third Year Clerkship

Written Examination at the End of the Third year Clerkship in Medicine: The National Board of Medical Examiners Shelf Examination in Medicine continues to be administered to all clinical clerks at the end of the 8-week Medicine clerkship. Advantages are the consistent quality of the clinical case scenarios requiring not only a knowledge base but also some clinical problem solving skills, as well as the opportunity to compare the performances of our students with students at a similar stage of training across North America and assess deficiencies and strengths of our curriculum. Our students are doing extremely well overall on the NBME exams. The performance of UBC first-time examinees of the NBME shelf examination in Medicine (all clerkship rotations) during the 2001-02 academic year resulted in a mean subject exam test score of 75.2 which is equal to the mean for North American medical schools who have 12 week clerkships (UBC’s is only 8 weeks). The mean for other schools that have 8-week clerkships is 72.6. The performance of students beginning the clerkship at the end of Third Year generally increased compared with the performance of the students beginning in September, reflecting the increased clinical experience acquired throughout the year.
**Pilot Project:** Dr. Ric Arseneau and departmental members at the St. Paul's Hospital Site have actively been involved in piloting an out-patient clinical experience for third year clinical clerks during their CTU rotation in Medicine. The project is taking place over the course of the 2002-03 academic year, where two to four third year clinical clerks are expected to volunteer to participate during the first month of their CTU rotation.

**Medical School Expansion:** We are currently in the progress of putting together proposals for pilot clerkships in preparation of the Medical School Expansion. The first increase of medical students entering the Third Year Clerkship is expected to be in the Year 2006.
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Schellenberg, Dr. Robert R


Wong, Dr. HC George


**Cardiology**

Bernstein, Dr. Victoria


Buller, Dr. Christopher E


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**Critical Care**

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Li, Dr. Gang

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McLean, Dr. David I

Rivers, Dr. Jason K

Shapiro, Dr. Jerry

Endocrinology

Gill, Dr. Sabrina

Johnson, Dr. Michelle D
Kendler, Dr. David L

Prior, Dr. Jerilynn C

Sirrs, Dr. Sandra M

Gastroenterology

Salh, Dr. Baljinder Singh

Steinbrecher, Dr. Urs P
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General Internal Medicine

Birmingham, Dr. Carl Laird

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Madden, Dr. Kenneth M

Meneilly, Dr. Graydon S

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Hematology

Forrest, Dr. Donna L

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Toze, Dr. Cynthia L

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Connors, Dr. Joseph M
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Gelmon, Dr. Karen A


Hoskins, Dr. Paul J


Klasa, Dr. Richard J


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**Rheumatology**

**Chalmers, Dr. Andrew**

Ensworth, Dr. Stephanie G

Esaiale, Dr. John

Koehler, Dr. Barry

Lacaille, Dr. Diane