The Department of Internal Medicine includes the following divisions: cardiology; clinical epidemiology; endocrinology, immunology, metabolism, and diabetes; gastroenterology; general internal medicine; hematology; geriatrics; infectious diseases; medical ethics; nephrology and hypertension; oncology; respiratory, critical care and pulmonary occupational medicine; and rheumatology. Basic and clinical research programs, teaching, and patient care are conducted by full-time faculty of the department at three Salt Lake City hospitals: University Hospital, LDS Hospital, and the Veterans Affairs Medical Center.
The Division of Cardiology has a diversified faculty equipped to diagnose and manage the broad spectrum of cardiac disease. Inpatient services and outpatient clinics provide consultation, diagnostic evaluations and the capability for follow-up care and management. Special areas of interest include cardiac transplantation, advanced therapies for heart failure, cardiac electrophysiology, and interventional cardiology.

In addition to daily general cardiology clinics, there are clinics for heart failure and transplantation, pacemakers, implanted defibrillators, adult congenital heart disease and cardiac risk reduction. We also offer a daily consult clinic. If you would like more information please e-mail to cardiologyconsult@hsc.utah.edu.

Three cardiac catheterization laboratories are available for hemodynamic and angiographic evaluations, cardiac electrophysiologic studies, myocardial biopsy, pacemaker and defibrillator insertions and interventional procedures, such as PTCA, balloon valvuloplasty and catheter ablation for selected cardiac arrhythmias.

The noninvasive laboratory provides cardiac echo and Doppler color flow studies, exercise echocardiography, pharmacologic stress echocardiography, ambulatory electrocardiographic monitoring, treadmill exercise stress testing and transesophageal echocardiography. It also offers analysis of Holter tapes from outside hospitals or clinics, and can supply Holter recorders if needed.

Ivor J. Benjamin, M.D., Division Chief. 801-585-7676
Roger A. Freedman, M.D., Director of Clinical Cardiology. 801-587-5888
William H. Barry, M.D. 801-585-7676
W. Mark Brann, M.D. 801-585-7676
Bruce E. Bray, M.D. 801-585-7676
Eliot Brinton, M.D. 801-581-3888
Edward M. Gilbert, M.D. 801-585-7676
Mohamed Hamdan, M.D. 801-587-5888
Paul N. Hopkins, M.D., MSPH 801-581-3888
Richard C. Klein, M.D. 801-587-5888
Dean Li, M.D. 801-585-7676
Sheldon E. Litwin, M.D. 801-585-7676
Christopher J. McGann, M.D. 801-585-7676
David A. Rawling, M.D. 801-587-5888
Karen E. Segerson, M.D. 801-585-7676
Ram C. Sharma, M.D. 801-585-7676
Fredric C. Shean, M.D. 801-585-7676
Michael F. Sheets, M.D. 801-585-7676
Scott Wall, M.D. 801-587-5888
Kevin J. Whitehead, M.D. 801-585-7676
Preventive Cardiology Program
801-581-4182
FAX: 801-581-5183

University Hospital
50 North Medical Drive, Room 4159
Salt Lake City, Utah 84132

The Madsen Preventive Cardiology Program is a comprehensive family-focused approach to the detection, treatment, and prevention of heart disease. Our program differs from other cardiovascular rehabilitation programs in its emphasis on a comprehensive, case managed, long-term risk reduction program for the patient and family members found to be at risk for the development of heart disease.

Our multidisciplinary team consists of a medical director, clinical coordinator, cardiology case managers, exercise specialists, clinic staff, community education specialist, registered dietician and administrative support staff.

The program includes an Inpatient Cardiac Rehabilitation Program and an Outpatient Cardiovascular Risk Reduction Center.

**Cardiovascular Risk Reduction Programs**
- Weight Management
- Stress Management
- Nutrition Counseling
- Nutrition Classes

**Cardiology Clinics**
- Family Lipid

**Diagnostic Testing**
- Echocardiography
- Exercise Treadmill Testing
- Electrocardiograms
- Holter/event monitoring

**Community Programs**
- School Site Education
- Health Fair Exhibits
- Health/Fitness Evaluations

**Outreach Clinics**
801-585-7676

Several of our faculty conduct outreach clinics: in Evanston and Rock Springs, Wyoming; in Idaho Falls, Idaho; in Ely, Nevada; in Montezuma Creek and Blanding, Utah; and in Park City, Utah at the Redstone Health Center. These clinics vary with respect to frequency of visits and the types of patients seen. Contact the Cardiology Division for further details.

**Redwood Health Center**
1525 West 2100 South
Salt Lake City, Utah 84119
801-213-9990

Dr. Mark Brann from the University of Utah Cardiology Division offers services at the Redwood Health Center. These services include outpatient evaluation, treadmill testing, echocardiography, and nuclear stress testing.
The Division of Clinical Immunology provides consultation in the diagnosis and treatment of immunodeficiency diseases. These include recurrent infections resulting from any type of immune system malfunction, with the exception of HIV infection which is handled by the Division of Infectious Diseases. A full range of immunology testing services is available.

Harry R. Hill, M.D., Division Chief. 801-581-5873

The Division of Endocrinology, Metabolism, and Diabetes provides comprehensive diagnostic and follow-up care for patients with all types of endocrine and metabolic conditions, such as diabetes mellitus, thyroid disorders and cancer, pituitary gonadal adrenal diseases, lipid disorders, metabolic water and electrolyte disturbances, and bone/calcium disorders including osteoporosis and hypercalcemia. Special services include: fine needle biopsy of the thyroid, dynamic endocrine testing (TRH, corticotropin-releasing hormone, pentagastrin stimulation of calcitonin, GnRH infusion, and other tests of pituitary-gonad-adrenal function), bone mineral densitometry, and specialized diagnostic testing in lipid disorders.

Diabetes Clinic
801-581-7761
Comprehensive education and care; nutritional counseling, self-monitoring of glucose, and intensive and conventional insulin treatment, including insulin pump therapy; podiatric care and education; rigorous control of type 1 diabetes in women desiring pregnancy.

Thyroid Clinic
801-581-7761
A comprehensive approach to diagnosis and management of thyroid disorders and cancers, including Graves' eye disease.

Metabolic Bone and Calcium Disorders Clinic
801-581-7761
The Metabolic Bone and Calcium Disorders Clinic offers management of patients with hyper- and hypocalcemic states, osteoporosis, osteomalacia, phosphate disorders, etc. Bone mineral densitometry is scheduled at 801-581-7761.

Donald A. McClain, M.D., Ph.D., Division Chief. 801-581-7761
E. Dale Abel, M.D. 801-581-7761
Dev Abraham, M.D. 801-581-7761
Dana H. Clarke, M.D. 801-581-7761
Daniel H. Knodel, M.D. 801-581-7761
A. Wayne Meikle, M.D. 801-581-7761
GASTROENTEROLOGY
801-581-7802
FAX: 801-581-7476

The Division of Gastroenterology provides comprehensive diagnostic and therapeutic care of patients with diseases of the gastrointestinal tract and liver. Special areas of interest include peptic ulcer disease; reflux esophagitis; inflammatory bowel disease; colon cancer; genetic diseases of the gastrointestinal tract (including colonic polyps and cancer); chronic hepatitis; drug-induced liver disease; and motility disorders of the esophagus, stomach, and colon. Procedures offered include diagnostic and therapeutic upper GI endoscopy; colonoscopy; retrograde cholangiography and pancreatography; esophageal, gastric and biliary manometry; percutaneous gastrostomy and percutaneous jejunostomy; therapeutic biliary and pancreatic endoscopy; endoscopic laser therapy; esophageal dilation and stent placement, and endoscopic ultrasound. All GI physicians have general gastroenterology clinics along with their specialties.

General GI
John C. Fang, M.D., Acting Division Chief ................................................. 801-581-7802
Douglas G. Adler, M.D. ................................................................. 801-581-7802
Malcolm M. Berenson, M.D. .......................................................... 801-581-7802
David J. Bjorkman, M.D., M.S.P.H., S.M. ................................. 801-581-7802
Randall W. Burt, M.D. ................................................................. 801-581-7802
William R. Hutson, M.D. ............................................................. 801-581-7802
Scott K. Kuwada, M.D. ................................................................. 801-581-7802
Kathryn A. Peterson, M.D. .......................................................... 801-581-7802
Christopher C. Tietze, M.D. ......................................................... 801-581-7802
Keith G. Tolman, M.D. ................................................................. 801-581-7802
Ashok K. Tuteja, M.D. ................................................................. 801-581-7802
Jason C. Wills, M.D. .......................................................... 801-581-7802
Robert F. Wong, M.D. ................................................................. 801-581-7802

GI Cancer Center
This program offers unique services in the screening, diagnosis, management, and genetic counseling of colon cancer, esophageal and pancreatobiliary cancers. There is special emphasis on evaluation and screening in families with high risk for colon and other GI cancers. Studies for screening, early detection and prevention of colon and pancreatobiliary cancers are underway.

Randall W. Burt, M.D. ................................................................. 801-581-7802
Scott K. Kuwada, M.D. ................................................................. 801-581-7802
Robert F. Wong, M.D. ................................................................. 801-581-7802

GI Motility Clinic
The University of Utah has a comprehensive repertoire of gastrointestinal motility studies, and offers special consultative and diagnostic services to patients with esophageal, gastric, small bowel, colonic, and other motility disorders. These include GERD, achalasia, non-cardiac chest pain, and pseudo-obstruction, gastroparesis, refractory constipation and fecal incontinence. State-of-the-art motility lab offers esophageal manometry, and pH testing as well as anorectal manometry and biofeedback. Gastric emptying and motility, small intestinal motility, colonic
transit studies, and anorectal motility are provided as well as pre-operative assessment. Breathing testing for lactose and fructose intolerance along with bacterial overgrowth is also offered.

John C. Fang, M.D., Acting Division Chief ........................................801-581-7802
Kathryn A. Peterson, M.D. .............................................................801-581-7802
Ashok K. Tuteja, M.D. .................................................................801-581-7802
Robert F. Wong, M.D. .................................................................801-581-7802

Liver Clinic
The liver clinic offers consultation and management of patients with acute and chronic liver diseases. Expert management of viral hepatitis, including hepatitis C, and other liver diseases such as alcoholic liver disease, hemochromatosis, alpha-1-antitrypsin disease, non-alcoholic fatty liver disease, autoimmune, and cholestatic liver diseases is available. Study protocols are available for patients who have contracted hepatitis C. Liver biopsies can be arranged through this clinic, as well as procedures for the management of chronic liver disease; including esophageal variceal banding ligation, and tumor obliteration. Chronic management of metabolic liver diseases is provided.

William R. Hutson, M.D., Director of Hepatology .........................801-581-7802
Christopher C. Tietze, M.D. .........................................................801-581-7802
Keith G. Tolman, M.D. .................................................................801-581-7802

Liver Transplant Program
The University of Utah Liver Transplant program offers pre-transplant evaluation for patients with end stage liver disease, but also a host of other services including collaboration with the Huntsman Cancer Institute in the management of liver cancer. Arterial chemoembolization, radio-frequency ablation of liver tumors, and liver resection are available and can be combined with the option of liver transplantation all in one location. We offer treatment of hepatitis, and acute and chronic liver diseases in the section of Hepatology that is closely associated with the transplant program. In addition, we offer the services of a specialized addictionology team for the evaluation and treatment of patients with drug and alcohol related liver disease. Our goal is to provide the best possible care with the full array of options, including liver transplantation for patients with end stage liver disease.

Adult Liver Transplantation scheduling ........................................801-587-8813
William R. Hutson, M.D., Director of Hepatology

Therapeutic Endoscopy
There are many types of advanced endoscopic diagnostic and therapeutic procedures, all of which are minimally invasive. These include state-of-the-art endoscopy, endoscopic ultrasound, high-resolution and high-magnification endoscopy, chromoendoscopy, and total small bowel arthroscopy with therapeutic ability.

Endoscopic therapy is available for acute and chronic bleeding lesions with injection, electro-thermal coagulation, Argon beam coagulation, and ligation and clipping. Benign luminal stenoses can be treated with dilation, incision and/or short to medium-term stenting with removable, expandable large-caliber plastic stents. Biopolymer injection therapy is available for selected cases of gastro esophageal reflux disease.
Pre-malignant polyps and tumors of the esophagus, stomach and intestines can be resected and/or ablated for cure. Malignant lesions of the gut can be resected and/or ablated for palliation and occasionally for cure, and obstructing or near-obstructing esophageal, stomach and intestinal tumors can be opened with stents for primary palliation or to allow bowel preparation for a single-stage resection. Therapy for Barrett’s esophagus (metaplastic esophageal epithelium) with dysplasia is offered with ablation and/or resection.

A complete array of endoscopic therapy for biliary and pancreatic lesions is available including all forms of ERCP, direct cholecodoscopy and panreatoscopy, and endoscopic ultrasound. Uncomplicated endoscopic extraction of bile duct stones is done with ERCP. Difficult stones can be treated with trans-endoscopic intra-corporeal mechanical, shock wave or laser lithotripsy. Extra-corporeal shock-wave lithotripsy is available for refractory bile duct and pancreatic duct stones, and for gallstones in selected cases where surgery is contraindicated. Dilation and stenting can be done for benign biliary strictures, fistulas and post-surgical complications. Sphincter of Oddi manometry and biliary and/or pancreatic sphincterotomy is available for evaluation and treatment of patients with suspected sphincter of Oddi dysfunction (post-cholecystectomy syndrome).

Complete services are available for the diagnosis and endoscopic treatment of pancreatic diseases including acute gallstone pancreatitis, acute recurrent pancreatitis and chronic pancreatitis. This includes therapy for sphincter dysfunction, pancreas divisum, strictures, fistulas and pseudocysts.

State of the art diagnostics are available for diagnosis, staging and palliative therapy of biliary and pancreatic malignancies including endoscopic ultrasound with fine needle aspiration, and plastic and expandable metal stenting. Benign ampullary tumors can be resected for cure and malignant tumors palliated with sphincterotomy, ablation and/or stenting.

There are numerous endoscopic options available for enteral nutritional access including endoscopic placement of naso-jejunal tubes, percutaneous endoscopic gastrostomy (PEG), percutaneous endoscopic gastrostomy with jejunal extension (PEG-J) and direct percutaneous endoscopic jejunostomy (D-PEJ).

Jason C. Wills, M.D. ................................................................. .801-581-7802

**Endoscopic Ultrasound**

Endoscopic Ultrasound (EUS) is available for the diagnosis and staging of tumors involving the esophagus, lung and mediastinum, stomach, liver, pancreas and bile ducts, as well as lesions in the small bowel, colon, and rectum. EUS is increasingly being used in the therapy of gastrointestinal disease, including drain placement into an abscess or pseudocyst; gaining access to bile ducts and the pancreatic duct for wire placement, stent placement, or to perform antegrade cholangiograms and pancreatograms. In addition, EUS is used to perform celiac plexus blocks/neurolysis in patients, with chronic pancreatitis or pancreatic cancer, suffering from intractable abdominal or back pain.

Jason C. Wills, M.D. ................................................................. .801-581-7802
Robert F. Wong, M.D. ............................................................ .801-581-7802

**SLC VA Medical Center**

Mae Go, M.D., Division Chief ................................................... .801-584-1236
TO SCHEDULE PATIENT APPOINTMENTS:

UNIVERSITY OF UTAH HOSPITAL
Endoscopy Center ................................................................. 801-585-5724
Gastroenterology Clinic .......................................................... 801-581-2020

HUNTSMAN CANCER INSTITUTE (HCI)
HCl Endoscopy Center
Randall W. Burt, M.D. ............................................................. 801-585-5724
Christopher C. Tietze, M.D. ..................................................... 801-585-5724
Jason C. Wills, M.D. ................................................................. 801-585-5724

HCl Gastroenterology Clinic
Randall W. Burt, M.D. (genetic counseling and cancer family syndromes) . . 801-587-9555

REDSTONE HEALTH CENTER ............................................... Toll Free 866-455-6703
Redstone Endoscopy Center .................................................... 435-658-9200
Redstone Gastroenterology Clinic .......................................... 435-658-9200

REDWOOD HEALTH CENTER
Redwood Endoscopy Center .................................................... 801-213-9797
Redwood Gastroenterology Clinic ............................................ 801-213-9797

GENERAL INTERNAL MEDICINE
801-581-7818
FAX: 801-585-9166

The Division of General Internal Medicine offers inpatient and outpatient consultation and management of patients with common chronic diseases including anemia, coronary artery disease, asthma, dementia, cardiac arrhythmias, diabetes mellitus, congestive heart failure, hyperlipidemia, hypertension, peptic ulcer disease, liver disease, renal disease, obstructive lung disease, thromboembolic disease, osteoarthritis, and thyroid disorders.

The division offers a comprehensive program of disease prevention and health promotion. This includes periodic health examinations with appropriate screening for hypertension, hyperlipidemia, breast cancer, and colon cancer. Risk-factor identification and management is stressed, and changing unhealthy lifestyles is emphasized, with involvement of the personal physician in interventions such as lipid-lowering diets, smoking cessation programs and exercise regimens. Adult immunization updating is provided. Periodic health examinations are stressed for both asymptomatic, apparently healthy patients and symptomatic patients with established medical problems. Continuity of care from a single staff internist is emphasized, including management of common acute ambulatory problems and appropriate referral to other specialists and subspecialists.

The division is currently accepting new patients at the General Internal Medicine Clinic at University Hospital and at the Madsen Health Center located at 555 Foothill Boulevard.

University Hospital General Internal Medicine Clinic 2 .......................... 801-581-7818
Barry M. Stults, M.D., Division Chief ........................................... 801-581-7818
Thomas H. Caine, M.D. ............................................................. 801-581-7818
John Doane, M.D. ................................................................. 801-581-7818
Amy P. Powell, M.D. ............................................................... 801-581-7818
William A. Dunson, M.D. ....................................................... 801-587-4251
M. Jason Penrod, M.D. ................................................................. 801-581-7818

University Internal Medicine at Madsen Health Center ................................................................. 801-581-7790
Hanadi M. Farrukh, M.D. ................................................................. 801-581-7790
Natalie A. Kim, D.O. ................................................................. 801-581-7790
Thomas L. Miller, M.D. ................................................................. 801-581-7790
Timothy W. Odell, M.D. ................................................................. 801-581-7790
Pierre S. Pincetl, M.D. ................................................................. 801-581-7790
Scott C. Woller, M.D. ................................................................. 801-581-7790
James J. Chamberlain, M.D.* ........................................................ 801-587-3923
* Dr. Chamberlain practices at the Utah Diabetes Center

HOSPITALIST GROUP
801-581-7818
Stephen J. Bekanich, M.D. ................................................................. 801-581-7818
Sara M. Lamb, M.D. ................................................................. 801-581-7818
Robert C. Pendleton, M.D. ................................................................. 801-581-7818
Michael B. Strong, M.D. ................................................................. 801-581-7818
Russell G. Vinik, M.D. ................................................................. 801-581-7818
Nathan Wanner, M.D. ................................................................. 801-581-7818

PALLIATIVE CARE PROGRAM
Beeper on call: 801-339-5554
Palliative Care is interdisciplinary care that aims to relieve suffering and improve the quality of life for patients with a life-threatening illness and their families.

Services Include:

- Symptom management (pain, anxiety, shortness of breath, nausea, constipation)
- Complex decision-making (illness management, treatment course, goals of care)
- Advance care planning (decisions regarding life-sustaining and life-extending measures, planning for crisis events, preparing for end-of-life decisions)
- Family support

Stephen J. Bekanich, M.D., Medical Director ................................................................. 801-581-7818
Michael B. Strong, M.D. ................................................................. 801-581-7818
Kathie Supiano, L.C.S.W. ................................................................. 801-581-2322
Kenneth Jackson, PharmD ................................................................. 801-581-7246
Ginger Marshall, A.P.R.N. ................................................................. 801-213-2922

GERIATRICS
801-587-9103
FAX: 801-585-3884

The Division of Geriatrics is the academic home of Geriatric Internal Medicine, and the Geriatric Research, Clinical, and Education Center. The division provides consultation and care for elderly persons and carries out inpatient and clinic programs in general geriatric medicine, cognitive disorders and geriatric gynecology. Clinicians also provide clinical care in extended care settings.

Mark Supiano, M.D., Division Chief ................................................................. 801-587-9103
Gerald Rothstein, M.D. ................................................................. 801-587-9103
Sara Jane Andersen, M.D. ................................................................. 801-587-9103
Byron D. Bair, M.D. ................................................................. 801-587-9103
Laurence J. Meyer, M.D., Ph.D. ................................................................. 801-587-9103
The evaluation and treatment of malignant disease and blood disorders is a major focus of the Hematology & Oncology services, housed in the Huntsman Cancer Institute at the University of Utah, located east of University Hospital. Attending physicians are members of the Divisions of Hematology and/or Oncology. Cancer chemotherapy is administered in the outpatient clinic at the Huntsman Cancer Institute and supplemented by inpatient care at University Hospital. A blood and marrow transplantation service, located at the University Hospital, offers both allografting and autografting for hematologic disorders and selected solid tumors. A variety of experimental cancer treatment programs are in use, including biologic response modifier therapy with Interleukin-2 for selected cancers. Non-malignant conditions of the blood, including anemia, bleeding disorders and white blood cell abnormalities, hemochromatosis, and the porphyrias are also evaluated. A large study on the benefit of screening for prostate, lung, colon, and ovarian cancer is in process. The group also participates in the STAR trial to evaluate breast cancer prevention strategies. The care of cancer patients is enhanced by a close working relationship with the Department of Radiation Oncology, as well as specialists in surgical oncology.

Hematology
James P. Kushner, M.D., Chief, Hematology Division .................................................. 801-585-3229
Charles J. Parker, M.D., Veterans Affairs Medical Center ........................................ 801-582-1565
Josef T. Prchal, M.D. ........................................................................................................... 801-585-0255
George M. Rodgers, M.D., Ph.D. ..................................................................................... 801-585-3229
Margaret K. Yu, M.D. ........................................................................................................ 801-585-3229

Oncology
John H. Ward, M.D., Chief, Oncology Division .............................................................. 801-585-0255
Wallace L. Akerley, M.D. ................................................................................................. 801-585-0255
Saundra S. Buys, M.D. .................................................................................................... 801-585-0255
Martha J. Glenn, M.D. .................................................................................................... 801-585-0255
L. Elise Horvath, M.D. .................................................................................................... 801-585-0255
Wolfram E. Samlowski, M.D. ......................................................................................... 801-585-0255
Paul J. Shami, M.D. ........................................................................................................ 801-585-0255
John R. Weis, M.D. .......................................................................................................... 801-585-0255
Sharon M. Weinstein, M.D., Pain Management .............................................................. 801-585-0255

HEMATOLOGY/BLOOD AND MARROW TRANSPLANT PROGRAM
Physician to Physician: 801-585-3229
Patient Appointments: 801-585-2044
FAX: 801-585-3432

The Blood and Marrow Transplant (BMT) Program at the University of Utah was established in 1990. In 1997, the program evolved as a joint blood and marrow transplant program along with the BMT program at Primary Children’s Medical Center. The program, under the direction of Dr. Michael Pulsipher, provides stem cell transplantation, consultation and care...
for patients with various hematological and selected solid tumor diseases. The program provides both marrow ablative therapy with stem cell rescue, also known as "Blood and Marrow Transplantation", as well as cellular immunotherapy through the use of an attenuated immunosuppressive preparative regimen followed by infusion of allogeneic stem cells (also known as "mini transplant"). The BMT program physicians and staff perform a full spectrum of procedures within the BMT field including syngeneic, related and unrelated allogeneic and autologous marrow, blood, cord blood and immune cell transplant. Patients with all generally accepted indications for transplants are treated and the program has a number of investigative protocols for patients with disease where BMT appears promising. The medical staff consists of dedicated BMT attending physicians, BMT fellows, and physician extenders (nurse practitioners and physician assistants). Transplants done under the program are physically performed at the University Hospital and at Primary Children's Medical Center. BMT physicians can be contacted at 801-585-3229 (University Hospital and Primary Children's).

Michael W. Boyer, M.D. ........................................ 801-585-3229
Thai Cao, M.D. .................................................. 801-585-3229
Michael A. Pulsipher, M.D. .................................. 801-585-3229
Schickwann Tsai, M.D., Ph.D. .............................. 801-585-3229

INFECTIONIOUS DISEASES
801-581-8812
FAX: 801-585-3377
Appointments: 801-585-2031

The Division of Infectious Diseases provides consultation and care for diagnosis and treatment of infectious diseases. Particular interests include antiviral chemotherapy for herpes simplex, cytomegalovirus and other viral infections, and venereal diseases and HIV/AIDS. The division also specializes in prophylaxis and diagnostic testing of travelers exposed to parasitic and other infections.

The Infectious Diseases and Human Immunodeficiency Virus Clinic, is a multidisciplinary clinic, accepting all referrals for patients who wish HIV testing, counseling, follow-up for positive HIV testing or problems related to established HIV/AIDS. The division will follow these patients on a consultation or primary care basis; studies are available. The clinic accepts those patients who have other problems of infectious etiology.

The University of Utah International Travel Clinic located at the Redwood Health Center offers comprehensive pre- and post-travel health services. Prior to foreign travel, patients are offered up-to-date travel health information, risk assessment, immunizations and travel-related medications (malaria prophylaxis, etc.). At this same location, consultation is available for travel related illness as well as general infectious disease consultation.

Written follow-up will be sent to all referring physicians.

John B. Hibbs, M.D., Division Chief .......................... .801-581-8812
Stephanie S. Gelman, M.D. .................................. .801-581-8812
Donald L. Granger, M.D. ...................................... .801-581-8812
Adi V. Gundlapalli, M.D., Ph.D. ............................. .801-581-8812
DeVon C. Hale, M.D. .......................................... .801-581-4873
John D. Kriesel, M.D. ......................................... .801-581-8812
Bert Lopansri, M.D. ................................................................. .801-581-8812  
Andrew T. Pavia, M.D. ............................................................. .801-581-8812  
Cathy A. Petti, M.D. ................................................................. .801-581-8812  
Larry G. Reimer, M.D. .............................................................. .801-581-8812  
Kristen M. Ries, M.D. ................................................................. .801-581-8812  
Harry Rosado-Santos, M.D. .......................................................... .801-581-8812  
Michael Rubin, M.D. ................................................................. .801-581-8812  
Matthew H. Samore, M.D. .......................................................... .801-581-8812  
Spotswood L. Spruance, M.D. ...................................................... .801-581-8812

MEDICAL ETHICS  
801-408-1135  
FAX: 801-408-5171  

The multidisciplinary Division of Medical Ethics provides consultation to physicians who encounter especially difficult ethical problems in the clinical setting and to ethics committees and institutions that want assistance as they develop policies about ethical issues. It conducts an active and diverse educational program for practicing physicians and their patients. Members of the division are especially interested in the concept of Advance Directives and the process of pre-crisis decision-making about life-sustaining treatments.

Jay A. Jacobson, M.D., Division Chief. .............................................. .801-408-1135  
Armand Antommaria, M.D., Ph.D. .......................................................... .801-408-1135  
Margaret P. Battin, Ph.D. ............................................................... .801-408-1135  
Jeffrey R. Botkin, M.D. ................................................................. .801-408-1135  
Leslie P. Francis, Ph.D., JD .............................................................. .801-408-1135

NEPHROLOGY AND HYPERTENSION  
801-581-6709  
FAX: 801-581-4343  

The Division of Nephrology and Hypertension provides full services for consultation and management of patients with renal disease. Initial evaluation may include management of hypertension or renal biopsy for prevention of progressive renal failure. The division can refer patients to any of ten dialysis centers operated by the University of Utah, in Utah and Idaho. Patients also may be evaluated for possible renal transplantation at any of these clinics. Areas of faculty specialization include hypertension, glomerulonephritis, renal transplantation and chronic dialysis therapy with a variety of treatment options.

The Kolff Dialysis Center at the University of Utah, in addition to providing in-center care, offers home dialysis training and support to patients from Utah, Idaho, Wyoming, and Nevada. Both hemodialysis and peritoneal (CAPD and CCPD) dialysis therapies are offered. University dialysis centers also provide home dialysis training for patients in the communities of Ogden, Idaho Falls, Provo, and St. George. Visiting patients are welcome at all facilities, and every effort is made to accommodate their schedules.

DIALYSIS PROGRAM  
801-581-6709, 801-581-8573  
The dialysis program is operated in close cooperation with the kidney transplant program at
ten dialysis centers:

- Iron Mission Dialysis Center, Cedar City, Utah
- Bonneville Dialysis Center, Ogden, Utah
- Castleview Dialysis Center, Price, Utah
- Dixie Dialysis Center, St. George, Utah
- Gem State Regional Dialysis Center, Idaho Falls, Idaho
- Kolff Dialysis Center, University of Utah, Salt Lake City, Utah
- South Valley Dialysis Center, Sandy, Utah
- Provo Dialysis Center, Provo, Utah
- Lakeside Dialysis Center, Bountiful, Utah
- Yellowstone Dialysis Center, Rexburg, Idaho

The dialysis program offers the most comprehensive clinical renal care in the Intermountain Region, including emphasis on the management of hypertension and diabetes. Direct written inquiries to the Dialysis Program, Dumke Building, University of Utah, SLC, Utah 84112, or call 801-581-8573 or 801-581-6709.

All clinics accept referrals from local physicians. Currently, all nephrologists practicing in Utah have staff privileges at all U-administered centers. With the support of the division medical staff, local physicians may continue to follow patients, once a course of dialysis therapy has been initiated, and supervise patient care in conjunction with the medical directors. University nephrologists specialize in all renal problems, ranging from the initial stages of kidney disease through all treatment modalities for end-stage renal disease. They hold regular clinics at each of the dialysis centers and are available to answer questions, or to consult on patient care. They also participate in various research projects related to biomedical engineering and renal physiology.

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RESPIRATORY, CRITICAL CARE, AND OCCUPATIONAL PULMONARY MEDICINE

801-581-7806
FAX: 801-585-3355
Toll Free: 888-549-LUNG (5864)

The Division of Respiratory, Critical Care, and Occupational Pulmonary Medicine offers adult pulmonary disease consultations, including asthma and cystic fibrosis, pulmonary function testing, arterial blood gas analysis, fiber optic bronchoscopy including laser therapy, sleep studies, bronchoprovocation testing and supervision and administration of respiratory therapy services. The division directs the Asthma Center at the University Hospital, the Pulmonary Fibrosis Program, the Lung Transplant Program, as well as the Pulmonary Rehabilitation...
Service. Emphysema patients being considered for lung transplantation, as well as certain patients with cystic fibrosis and sleep disorders, are candidates for pulmonary rehabilitation. The division is an integral part of the thoracic oncology program. Its members evaluate patients with lung cancer, cancer metastatic to the lung, mesothelioma and cancer treatment related pulmonary complications. The division also administers and supervises the Medical Intensive Care Unit. Its members also serve as consultants to the state tuberculosis program. Occupational lung disease services are provided through weekly clinics and consultations with industry.

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RHEUMATOLOGY
801-581-7724
FAX: 801-581-6069

The clinics of the Division of Rheumatology provide diagnosis and comprehensive management of adults with rheumatic diseases, including rheumatoid arthritis, systemic lupus erythematosus, polymyositis/dermatomyositis, scleroderma, vasculitis syndromes and osteoarthritis. The opportunity for patients to participate in controlled clinical trials assures the most current aspects of patient care.

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