

Anesthesiology & Critical Care News

Published by
The Department of Anesthesiology
and Critical Care Medicine
University of Pittsburgh

Fall/Winter 2000 www.anes.upmc.edu

EDITOR'S NOTE

This Year 2000 is the first to see the publication of three issues of our Department's newsletter. As always, this issue emphasizes news in our research, teaching, and clinical activities. New faculty appointments and promotions are announced. Our new residents and fellows are presented, although they have already been with us for half a year.

In this issue, we proudly announce the five-year re-accreditation of our Residency program and two Fellowship programs. We also announce Dr. Carol Rose's inauguration as President of the Pennsylvania Medical Society. We have included information on important research and clinical activities by prominent faculty members, some who have moved to other facilities in our international health system, while others come to UPMC from afar to gain valuable experience in our Department.

This issue also announces the publication of the memoirs of our Department's first two chairmen, Drs. Peter Safar and Peter Winter.

While this newsletter is supposed to reach you prior to the Holidays, heavy mailing at this time of year may delay its arrival in your mailbox. Still, we in the Editorial Group wish all of you a most pleasant Holiday Season and we hope you will enjoy reading this issue.

Tuus,
Ake Grenvik, MD, Editor

Chief of Presby Anesthesiology Describes Goals

A strong sense of equity and fairness is an indispensable tool for the chief of a division in which more than 100 professionals — 48 physicians and about 65 CRNAs — must regularly interact in a fast-paced, often hectic and high-stress environment.

That standard of evenhandedness is a guiding principle for **John P. Williams, MD**, who was appointed Chief of Anesthesiology and Medical Director of Surgical Scheduling at UPMC Presbyterian last July, after having served in the same capacity as Acting Chief and Director since September 1999. Dr. Williams came to UPMC in 1998 from the UCLA School of Medicine in Los Angeles, where he was Director of Cardiothoracic Anesthesiology and Co-Director of Surgical Intensive Care Medicine. Prior to that he was Director of Cardiothoracic Anesthesiology at the University of Texas Medical School in Houston.

Dr. Williams feels that, in the large corps of professionals under his direction, all viewpoints are important — as investments in what he refers to as “the group’s intellectual capital.” One of his primary goals over the next 5-10 years is to make the most of this intellectual capital to re-establish the Presby

department’s position of pre-eminence in anesthesia, particularly in the areas of research, continuous quality improvement (CQI), and education.

Commenting first on departmental research activity, Dr. Williams cites several projects that are exploring the impact of human simulation in training, various studies of the functional basis of anesthesia, and his own research into the role of the sympathetic nervous system in the initiation and maintenance of coronary artery disease.

In the area of quality assurance, he notes the potential of new applications of artificial intelligence systems in the management of anesthetic techniques. Such systems can be programmed to provide “smart alerts,” recognizing patterns or spotting trends in physiologic parameters during anesthesia, and feeding that data into the CQI system.



John P. Williams, MD is Chief of Anesthesiology and Medical Director of Surgical Scheduling at UPMC Presbyterian.

“You manage what you measure,” Dr. Williams says. “If you want to manage total quality, you need to measure more than just heart rate, arterial pressure, end-tidal volume, etc. Trends are important. Relationships. Sequences of events. The anesthetic record needs to show those things, not only the basic ‘q-5-minute’ measurements.”

(continued on next page)

Through the use of artificial intelligence systems, defined data relationships and parameters can be tied to statistical process-control charts. Anesthetic machines can thus be "taught" to respond automatically to designated deleterious events.

"One of the advantages at UPMC is the large number of anesthesia cases that we manage here," Dr. Williams says. "We can track parameters, and in as little as six months be able to create a database that would take years to develop in most other medical centers."

The Department now has the beginnings of an excellent CQI database for an Internet-based product that can be modeled for other centers around the world. When established it will be an international database capable of tracking rare-but-devastating events occurring during regional anesthesia (similar to the North American Malignant Hyperthermia Registry, for which **Barbara Bandom**, MD is Medical Director). The model will be applicable to other areas. Neuraxial hematoma is a case in point: According to Dr. Williams, "Estimates of the incidence of this complication range from 1:8,000 to 1:50,000 or even 1:60,000. It is clear

that we have no idea of the real incidence of the event, and although we know *what* is happening, we don't know *why* it happens."

The large number and complexity of cases seen in UPMC operating rooms is also a major asset in the Department's academic account. Despite the demanding OR schedule, Dr. Williams believes that it is important to identify ways to allow faculty members to pursue their academic interests. "Not to do so is the equivalent of eating your seed corn," he said, borrowing an analogy from his Texas background. "It feeds the immediate need, but leaves nothing for the future."

Dr. Williams appreciates the University of Pittsburgh's long tradition of teaching and training in anesthesiology and critical care medicine. He points out that one of the Department's chief advantages is the availability of three levels of training: medical student, residency, and fellowship-level programs. He believes that the ability of faculty members to select a level of instruction from the educational continuum contributes to a higher level of faculty satisfaction. In addition, trainees in the various fellowship programs have the

Interim Chairman Appointed at Shadyside

Dr. Mark E. Hudson, Associate Professor of Anesthesiology and Critical Care Medicine, has been appointed Interim Chairman of the UPMC Shadyside Department of Anesthesiology. Dr. Hudson has been a cardiac anesthesiologist in the UPMC Health System for seven years. He has served as charge anesthesiologist and schedule-maker, and is a member of UPMC's Total Quality Council. He is a past Chairman of his Department's Quality Assurance Committee and former Residency Coordinator for Cardiac Anesthesiology.

opportunity to develop their own teaching skills as they interact with medical students and residents.

In the area of educational research at UPMC, Dr. Williams says, "This is where the human simulator really shines. Here we can develop and test educational strategies in a controlled environment. This will be increasingly important in our role as physician educators. In collaboration with engineers at Carnegie Mellon University, we have a great opportunity to develop enhanced simulators that approximate the goal of virtual reality — that is: making trainees actually believe that they are in the environment where you want them to be."

Simulation will also play a role in the credentialing process, according to Dr. Williams. He is committed to supporting the development of human simulation at the University of Pittsburgh, which is one of only a very few medical schools nationwide to have this technology.

Dr. Williams' vision for anesthesiology at UPMC includes a residency program that is second to none, world leadership in the development of quality-assurance systems, and an increase in clinical research activity. He hopes to see the University of Pittsburgh set the world standard for academic departments of anesthesiology in the new century.

Pediatric CCM Research Training Receives NIH Support

The Department of Anesthesiology and Critical Care Medicine has been awarded a National Research Service Award (NRSA) Institutional Training Grant (T32) for the fellowship program entitled "Training in Pediatric Neurointensive Care and Resuscitation Research." Focusing on brain injury and cardiac arrest, this program is the first of its kind in the nation and only the second NIH-funded training program in pediatric critical care medicine.

The five-year grant funds a two-year research-training program for two fellows per year. **Patrick Kochanek, MD**, Director of the Safar Center for Resuscitation Research, is Principal Investigator for the program; **Peter Safar, MD** is Co-Investigator. The first two fellows to begin training under the new grant are **Margaret Satchell, MD** and **Kimberly Statler, MD**. The focus of Dr. Satchell's work is "PARP and Traumatic Brain Injury;" Dr. Statler is concentrating on "Anesthetic Effects and Traumatic Brain Injury."

The grant supports research in the areas of neurotrauma and novel approaches to resuscitation in cerebral ischemia for

fellows training in pediatric critical care medicine, child neurology, and pediatric neurological surgery, and it represents a unique collaborative opportunity among these divisions at Children's Hospital. Trainees in the program will have access to an abundance of highly qualified and actively engaged mentors from a variety of disciplines including neurology, neurosurgery, and pharmacology. The pool of potential advisors includes 27 funded investigators at the Safar Center, the University of Pittsburgh, Children's Hospital, the Rangos Research Center, and Carnegie Mellon University.

The program is being funded by the Pediatric Rehabilitation Center within the National Institute of Child Health and Human Development, one of the National Institutes of Health. The NIH awards T32 training grants to eligible institutions to develop or enhance research training opportunities for trainees of the institution's own choosing who are preparing for careers in specific areas of biomedical and behavioral research.

Our Department now has the rare academic distinction of being the recipient of two NIH T32 training grants. The other program, "Experimental Therapeutics in Critical Care,"



Frank Gyulai, MD

Dr. Gyulai Receives Clinical Scientist Development Award from NIH

Dr. Frank Gyulai has been awarded a Clinical Scientist Development Award (K08) from the National Institutes of Health for his study entitled "Anesthetic Mechanisms by *in vivo* Brain Imaging." This project takes advantage of recent developments in positron emission tomography (PET), which permits noninvasive study of neuroreceptor systems in the living brain, and thus offers a means to define the neurophysiological basis of unconsciousness produced by general anesthetics. This study proposes the use of PET to examine the effect of the general anesthetic isoflurane on the functional state of the GABA_A receptor, as well as postsynaptic processes directly linked to the receptor — such as neuronal metabolism — in the intact, living brain.

The proposed experiments are expected to yield insights into the relationship between isoflurane's effect on the GABA_A receptor alone, as well as the translation of this effect into enhanced inhibitory transmission in various brain regions. Dr. Gyulai is Assistant Professor of Anesthesiology/CCM and heads the Neuroanesthesia Division at UPMC Presbyterian. He is also a current recipient of a Clinical Scholar Research Award from the International Anesthesia Research Society, for functional imaging work, and is a collaborator on the NIH multicenter project entitled "Hypothermia during intracranial aneurysm surgery."



Drs. Margaret Satchell and Kimberly Statler are studying traumatic brain injury under the new NIH award.

with **Michael R. Pinsky, MD** as Program Director, focuses on training in research theory and basic science research

relevant to cardiopulmonary disease as applied to the critically ill.



Mitchell Fink, MD
Russell Delude, PhD

Major Grants Fund Research on Gut-Barrier Function and Shock

The collaborative research efforts of CCM Division Chief **Mitchell Fink**, MD and **Russell Delude**, PhD received recent affirmation in the form of three prestigious new grants, plus ongoing support for a fourth grant. Three of the projects received funding from the National Institutes of Health (NIH) and one from the Defense Advanced Research Projects Agency (DARPA), a

central research and development organization for the U.S. Department of Defense.

Dr. Fink believes that the research team's success in attracting this major extramural support is the result of the solid collaboration between himself as clinician and Dr. Delude as molecular biologist. The two have been colleagues for several years, beginning with their association at Harvard Medical School and the Beth Israel Deaconess Medical Center in Boston. Dr. Fink briefly summarized the funded projects:

Molecular Mechanisms of Gut-Barrier Dysfunction (NIH). Dr. Delude is Principal Investi-

gator, and Dr. Fink is co-PI in this effort to delineate the biochemical pathways that are significant in the alterations of gut-barrier function seen in critical illness. A special focus of the study is the role of nitric oxide as a modulator of mitochondrial and cytoskeletal function.

Intestinal Perfusion and Permeability in Sepsis (NIH).

Dr. Fink is PI, Dr. Delude is co-PI in this study, initiated at the University of Massachusetts and now in its 16th year of

funding. This is another investigation of gut-barrier function, with three areas of endeavor: 1) to discover the role of hypoxia-inducible factor 1 (HIF-1) in the adaptation of epithelial cells to hypoxia; 2) to study the role of changes in intracellular Ca⁺⁺ as a factor in altering gut epithelial permeability; and 3) to learn more about a novel transport system that the research team previously discovered in gut epithelial cells.

Gut-Barrier Dysfunction in Hemorrhagic Shock (NIH). Dr. Fink is PI; Co-Investigators are Dr. Delude and Dr. Henri Ford of the Department of Surgery. Focal points of this investiga-



Sören Berg, MD

Post-Doctoral Fellow Joins Sepsis Research Group

Dr. Sören Berg of Stockholm, Sweden began a one-year post-doctoral research fellowship on Sept. 1, when he came to the Department to join research efforts in the laboratory of Mitchell Fink, MD and Russell Delude, PhD. (See preceeding story) Dr. Berg will be investigating the role of signaling mediated by hypoxia-inducible factor 1 (HIF-1, a transcription factor) in the response of cells to hypoxia and inflammation.

Dr. Berg attended medical school in Uppsala and Linköping, Sweden and completed training in anesthesiology and critical care medicine at the University of Linköping in 1987. The home of the youngest of six Swedish schools of medicine, the University of Linköping features a non-traditional, problem-based, integrated curriculum, according to Dr. Berg. Linköping is located about 125 miles south of Stockholm.

After completing his training, Dr. Berg was appointed assistant professor in the Department of General Intensive Care in Linköping from 1987 to 1996. He later served at Karolinska Hospital in Stockholm, and has recently returned to Linköping where he is employed in the Intensive Care Unit of the Department of Cardiothoracic Anesthesiology. He has had the opportunity to participate in the education of both medical students and young physicians in specialty training.

Dr. Berg's clinical and research interest has been chiefly in the area of septic shock and multiple organ failure. His doctoral dissertation, completed in 1994, concerned his studies of the kinetics of hyaluronan (hyaluronic acid) in sepsis. He maintains his interest in the field of organ dysfunction — especially liver and gut dysfunction — in sepsis, and hopes to expand his research field and increase his knowledge during his stay in Pittsburgh.

tion are the roles of apoptosis and oxidant-induced cellular injury in gut-barrier dysfunction in hemorrhagic shock, rather than in sepsis and septic shock.

Ringer's Ethyl Pyruvate Solution (REPS) as a Revolutionary

Countermeasure for the Management of Sepsis in Septic Shock (DARPA). Dr. Fink is PI, Dr. Delude is co-PI in this project to develop a novel resuscitation fluid for management of hemorrhage and sepsis.

New Sponsored Projects April 2000 – September 2000 (does not include ongoing projects)

FEDERAL GRANTS

Faculty Member	Role on the Project	Agency Name/Agency Grant Number	Project Title	Project Period
R. Clark	PI (Project 5 of PP)	NIH (2-P50-NS30318-09A1)	PARS Activation After Traumatic Brain Injury (Project 5 of PP — Molecular Mechanisms in Traumatic Brain Injury: Bench to Bedside)	05/11/00 - 02/28/05
M. Fink	PI	DARPA N65236-00-1-5434	Ringer's Ethyl Pyruvate Solution (REPS) as a Countermeasure for Overwhelming Infections Caused by Unconventional Pathogens	09/29/01 - 09/28/02
M. Fink	PI	Massachusetts General Hospital Subcontract of NIH Award (5-R01-AI39614-04)	CAP-18-IgG Fusion Protein — A Novel Treatment for Sepsis	08/01/99 - 07/31/00
M. Fink	PI	Massachusetts General Hospital Subcontract of NIH Award (R01-GM-59694-01A1)	Bacterial Membrane Proteins in Gram-Negative sepsis	03/01/00 - 02/28/04
M. Fink	PI	NIH (2-R01-GM37631-16)	Intestinal Perfusion and Permeability in Sepsis	07/01/00 - 06/30/04
M. Fink	PI	NIH (5-P50-GM53789-04)	Molecular Biology of Hemorrhagic Shock IV: Gut Barrier Dysfunction in Hemorrhagic Shock	07/01/00 - 06/30/02
F. Gyulai	Co-I	University of Iowa Subcontract of NIH Award (1-R01-NS38554-01)	Hypothermia During Intracranial Aneurysm Surgery	06/01/00 - 05/31/01
F. Gyulai	PI	NIH (1-K08-GM00687-01)	Anesthetic Mechanisms in vivo by Brain Imaging	05/01/00 - 04/30/04
nanics	PI	Biomedical Research & Technology Subcontract of NIH Award (1-R43-DK57386-01)	Gene Therapy for Maple Syrup Urine Disease	07/01/00 - 03/31/01
P. Kochanek	PI	NIH (2-P50-NS30318-09A1)	Molecular Mechanisms in Traumatic Brain Injury: Bench to Bedside — Project 3 — INOS & TBI	05/11/00 - 02/28/05
P. Kochanek	PI	NIH (2-P50-NS30318-09A1)	Molecular Mechanisms in Traumatic Brain Injury: Bench to Bedside — Core C — Animal Modeling and Outcome	05/11/00 - 02/28/05
P. Kochanek	PI	NIH (T32-HD40686-01)	Training in Pediatric Neurointensive Care and Resuscitation Research	09/25/00 - 04/30/05
P. Kochanek	PI	NIH (Award is held by Children's Hospital of Pittsburgh. Dr. Kochanek is the Director of the GCRC)	CHP General Clinical Research Center	09/01/00 - 08/31/01
T. Rudy	Co-I	NIH (5-P60-AR44811-04)	Chronic Low Back Pain in the 65+: Is P.E.N.S. Effective?	09/01/00 - 08/31/01
C. Sirio	Co-I	NIH (1-R01-NR05204-01)	Improving Outcomes in Mechanically Ventilated patients	04/01/00 - 12/31/03

FOUNDATION GRANTS

Faculty Member	Role on the Project	Agency Name/Agency Grant Number	Project Title	Project Period
G. Clermont	PI	Society of Critical Care Medicine Founders Grant	The Impact of ICU Physician Staffing Patterns on Outcome and Resource Use	07/01/00 - 06/30/01
F. Gyulai	PI	International Anesthesia Research Society Clinical Scholar Research Award	Anesthetic Mechanisms by in vivo Human Brain Imaging	01/01/00 - 12/31/01
D. Marcus	PI	The Raymond and Elizabeth Bloch Foundation (UPP Account)	Cause, Treatment, and Possible Cure for Pain Caused by, for example Migraine Headaches	01/01/00 - 01/01/01
Stondi	PI	The Federation of Independent School Alumni	Identification of Needs of Those with a Traumatic Brain Injury and their Families	09/01/00 - 08/31/01
C. Sirio	PI	American Heart Association (PA/DE Affiliate) Grant-In-Aid Award (Agency # 0051048U)	Evaluating Outcomes, Treatment Patterns, and Cost of Care for AMI Patients Using a Statewide Database	07/01/00 - 06/30/02



Leonard Firestone, MD
Erin Sullivan, MD
Michael Mangione, MD
Paul Winter, MD

Retreat Theme: The Physician as Educator

The Department held its 3rd Annual Education Retreat Saturday, November 18 at the Pittsburgh Athletic Association in Oakland. Following opening words from Department Chairman **Leonard Firestone**, MD, Dr. **Rita Patel**, Director of Anesthesiology Education Programs, welcomed participants to the Retreat. Dr. Loren Roth (Senior Vice President, Medical Services, UPMC Health System; and Associate Senior Vice Chancellor for Health Sciences, University of Pittsburgh) set the tone for the day's activities with his introductory talk on "The Physician as Educator: The Purpose, the Process, and the Rewards."

Three interactive problem-solving sessions ran concurrently so that attendees had the opportunity to participate in all three workshops. School of Education Dean Alan Lesgold and MCCTP Director **Paul Rogers**, MD led the *Educational Research* workshop. Drs. **Erin Sullivan** and **Michael Mangione**, along with Rich Levitt (Coordinator

for Academic Development, Office of Medical Education, School of Medicine) directed the session on *Communication Skills*. Dr. Sullivan chairs the Curriculum Committee for the Residency Program; Dr. Mangione is Director of Clinical Medical Student programs, including the third-year Surgery and Perioperative Medicine Clerkship and the fourth-year electives. The remaining discussion group, *Documenting Teaching Effectiveness*, was facilitated by Dr. Patel, along with

Director of Faculty Development **Peter Winter**, MD.

Steven Kanter, MD closed the Retreat with an address on "The Role of the Clinician/Educator in Academic Medicine." Dr. Kanter is Senior Associate Dean of Academic and Faculty Affairs at the School of Medicine.

Approximately 50 faculty members participated in the Retreat, including the complete lineage of Department Chairmen: Drs. Peter Safar, Peter Winter, and Leonard Firestone. Participants included a full range of faculty, from junior to senior members, as well as

Educational Advisory Council

Leonard Firestone, MD
Marie Baldissieri, MD
Charles Boucek, MD
James Greenberg, MD
Michael Mangione, MD
David Metro, MD
Rita Patel, MD
James Rieker, PhD
Paul Rogers, MD
Erin Sullivan, MD
Shekhar Venkataraman, MD
Helen Westman, MD
Peter Winter, MD

Friends of Pitt 'Discover' Human Simulation

Alumni and friends of the University of Pittsburgh had the opportunity to see "live" demonstrations of the Department's human simulator during Discovery Weekend, held Oct. 27 and 28 on the Oakland campus. The special event was organized to showcase the University and to demonstrate, in Chancellor Mark A. Nordenberg's words, "...how our educational, research, scholarly, and public-service initiatives are contributing to healthier, richer, more productive human lives..."

The program highlighted the people and the achievements that have distinguished the University and its various schools. Guests chose a "Discovery Track" and had the opportunity to participate in a 30-minute interactive learning program at each of the six sites on the track.

The Department's Human Simulation Center was one of the School of Medicine's featured sites. **Victor Kubit**, MD; **David Metro**, MD; **Rita Patel**, MD; **John Schaefer**, MD; **Erin Sullivan**, MD; and Simulation Center Coordinator/Technologist **Carole Cox** were among the Department members who participated in the demonstration.

Dr. Sullivan demonstrated an American Heart Association-approved simulation program; Drs. Kubit and Metro showed how the simulator can be used for training in fiber-optic bronchoscopy; Dr. Schaefer performed "full-scale simulation" (anesthetizing the "patient" for surgery); and Dr. Patel explained how the Human Simulation Center is used for training and education at the University of Pittsburgh.



Faculty members demonstrated human simulation during Pitt's Discovery Weekend; from left, Drs. John Schaefer, Victor Kubit, Erin Sullivan, Dave Metro, and Rita Patel.

Dennis Zerega, Vice-President for Graduate Medical Education, UPMCHealth System.

The Education Retreat was sponsored by the University of Pittsburgh School of Medicine

Center for Continuing Education in the Health Sciences at the Department of Anesthesiology and Critical Care Medicine and was hosted by the Department's Educational Advisory Council.



Jim Walker

Education Administrator Signs On

To assist in the coordination of our many educational programs, Dr. Rita Patel and the Department recently welcomed **Jim Walker** in the new position of Education Administrator. Jim comes to us from the Graduate Medical Education program at the Western Pennsylvania Hospital, where he also served as a program coordinator for the family practice residency. He has experience with the development of continuing medical education (CME) courses.

Jim is responsible for coordinating the Department's anesthesiology fellowship programs, the activities of the Educational Advisory Committee, faculty development programs, and CME programs. He will also oversee the activities of the medical student and residency coordinators. Jim has a BS in Business Administration and a Diploma in Computer Science/Programming, as well as additional experience in training, computer operations, TQM (total quality management) initiatives, and special projects. His background includes four years as a systems administrator for Columbia Medical Plan, a cap-model HMO. Jim can be reached via email at WalkerJE@anes.upmc.edu or by telephone at 692-4505.



SimMan Goes to AAMC Meeting

Paul Rogers, MD and **Randy Wax, MD** participated in the Association of American Medical Colleges annual meeting, "Making a Difference," Oct. 27 - Nov. 1 in Chicago. Drs. Rogers and Wax presented an abstract: *A Simulator-Based Program for Teaching Resuscitation Skills to Medical Students: Advances in Technology for Simulation and Evaluation*. This program is a project for which they, along with Dr. **Michael Pinsky**, have received an "Innovations in Education" Award from the Provost.

At the AAMC meeting, Drs. Rogers and Wax demonstrated Pitt's human simulator, SimMan® (Laerdal Medical Corporation) to a combined audience of approximately 150 educators from medical colleges across the U.S. Among these were representatives of Harvard, Yale, the University of Rochester, and the Uniformed Services University for the Health Sciences.

SimMan® was one of the "Innovations in Medical Education" exhibits demonstrated at the annual meeting. Dr. Rogers explains that the simulator can be used as an



Paul Rogers, MD
Randy Wax, MD
Michael Pinsky, MD

Residency and Fellowship Programs Re-accredited

Following the ACGME Residency Review site visit in the spring of 2000, the University of Pittsburgh's core Anesthesiology Residency Program has received the news of continued full accreditation for five years. The Anesthesiology Critical Care Medicine and Pediatric Anesthesia Fellowship programs have also received renewed accreditation, and will receive their next site visit in five years, as well.

Dr. Rita Patel, Director of Anesthesiology Education Programs, acknowledged Department Chairman **Leonard Firestone, MD** for his commitment to resident education. She also expressed appreciation for the time and efforts of Residency Coordinator **Barbara Chismar** and Residency Program Assistant **Amy Wetmore**, all the education secretaries and administrators at the various clinical sites, the clinical chiefs, the Residency Education Committee, and the Information Services team. Dr. Patel expressed particular thanks to Drs. Nicholas Bircher, Mitchell Fink, Ake Grenvik, and Paul Rogers for their help in the re-accreditation of the CCM Fellowship program, and to Drs. Peter Davis, Jacqueline Morillo-Delerme, Jim Greenberg, Helen Westman, and Barbara Brandom for their efforts in the re-accreditation of the Pediatric Anesthesiology Fellowship.



Rita Patel, MD



Barbara Chismar



Amy Wetmore

excellent teaching tool, not only as a method of evaluating performance. The key to effective teaching is the ability of their program to provide rapid feedback to trainees. As the abstract explains:

"Acute medical emergencies are not amenable to amateur intervention, and occur

sporadically. Thus, simulation provides a powerful tool for reliably presenting resuscitation challenges to medical students without harm to patients. Effective learning can also be facilitated by presentation of immediate detailed multimedia feedback."



Patrick Kochanek, MD

Dr. Kochanek Named Editor of New PCCM Journal

After a formal, international search, Patrick M. Kochanek, MD has been chosen to serve as the first Editor of the new journal, *Pediatric Critical Care Medicine*, beginning January 1, 2001. Dr. Kochanek serves or has served on the editorial boards of premier scientific journals, including *Stroke*, *Critical Care Medicine* (for which he is also Scientific Editor), and *Journal of Neurotrauma*. He was Founding Editor of *Pediatric Life Support International* and has been an *ad hoc* reviewer for more than a dozen journals.

Pediatric Critical Care Medicine is a peer-reviewed, scientific journal published quarterly by the Society of Critical Care Medicine (SCCM) and the World Federation of Pediatric Intensive and Critical Care Societies (WFPICCS). It is the only peer-reviewed journal to focus exclusively on pediatric and neonatal intensive care. The inaugural issue was published in June 2000 and contained a lead article written by Dr. Kochanek and Dr. Robert Clark on "Biochemical, cellular, and molecular mechanisms in the evolution of secondary damage after severe traumatic brain injury in infants and children: Lessons learned from the bedside."

According to WFPICCS President Dr. Geoff Barker: "*Pediatric Critical Care Medicine* provides an opportunity for physicians, nurses, and allied health practitioners to publish their best work. We hope that a variety of critical care professionals will submit scientific articles for the journal."

Dr. Jan Smith Goes to Sicily

In mid-October, Dr. Jan Smith arrived in Palermo, Sicily, where he now holds the position of Staff Anesthesiologist at the Istituto Mediterraneo per i Trapianti e Terapie ad alta Specializzazione (IsMeTT). Dr. Smith joins Medical Director and Chief Anesthesiologist Victor Scott, MD in IsMeTT's Anesthesiology & Critical Care Medicine Service, where he replaces Ernesto A. Pretto, MD, who returned to Pittsburgh in late August.

IsMeTT is a hospital facility built two years ago under the management of the UPMC Health System in partnership with two public hospitals in Palermo: Civico and Cervello. The Istituto is dedicated to the care of patients requiring solid organ transplantation. The facility has two operating rooms, a four-bed PACU, which also doubles as an ICU, and a four-bed ICU with full



Jan Smith, MD
Victor Scott, MD
Ernesto A. Pretto, MD

monitoring, mechanical ventilation, hemodialysis, and hemofiltration capabilities. Drs. Scott and Smith currently have the assistance of one anesthesiology fellow, Dr. Antonio Arcadipane, a graduate of the University of Palermo, who has learned much from working with Dr. Scott and Dr. Pretto. Additional support comes from Dan Mikuta, CRNA, who also came to Palermo from Presby. Having a CRNA from Pittsburgh helps maintain some of the UPMC

routine that Dr. Smith believes to be crucial to the team's consistent performance.

Dr. Scott is Director of both the ORs and the ICU and is gaining regional visibility and respect: He recently chaired a regional meeting on organ-donor management, and he has played an important role in teaching many EU Fellows as part of the IsMeTT Training Program.

Faculty Well-Published in '99

During Academic Year 1999, the prolific faculty of the Department of Anesthesiology and Critical Care Medicine published more than 80 peer-reviewed papers in prestigious scientific journals including the *American Journal of Physiology*; *American Journal of Anesthesiology*; *Anesthesiology*; *Anesthesia & Analgesia*; *British Journal of Pharmacology*; *Chest*; *Critical Care Medicine* (and its supplement *New Horizons*); *Diagnostic Microbiology & Infectious Disease*; *FASEB Journal*; *Headache*; *Intensive Care Medicine*; *Journal of Cardiothoracic & Vascular Anesthesia*; *Journal of Cerebral Blood Flow & Metabolism*; *Journal of Neurochemistry*; *Journal of Pediatrics*; *Kidney International*; *Liver Transplantation & Surgery*; *Magnetic Resonance in Medicine*; *Muscle & Nerve*; *Neuropharmacology*; *Pediatrics*; *Proceedings of the National Academy of Sciences of the USA*; *Respiratory Care*; *Science*; *Toxicology Letters*; *Transplantation*; and at least 20 additional titles.

In addition to refereed articles and published abstracts, faculty members produced more than 70 miscellaneous publications, including books and book chapters, editorials, invited papers, letters, and monographs, as well as over 140 published abstracts.

PMS President Carol Rose, MD Speaks Up for Physicians

Dr. Carol E. Rose was inaugurated to the presidency of the Pennsylvania Medical Society on October 14, becoming both the first anesthesiologist and the first UPMC physician to serve in this position. Dr. Rose is the 151st in the Society's presidential lineage, and the first woman to hold this office.

As President, Dr. Rose is the chief spokesperson for the Medical Society, which represents member physicians throughout Pennsylvania on matters of importance to the medical community and their patients. She will lobby on behalf of Society members, and all physicians, on issues such as patient protection and patients' rights to appropriate care. Current issues include concerns related to managed care, for instance, reimbursement and the definition of "medical necessity," including the question of who should determine the medical necessity of a given treatment for a particular patient. Dr. Rose feels strongly that this decision should be left to the physician and patient. Other matters relating to patient protection include quality assurance *vis à* *vis* the issue of medical errors, and policy issues regarding scope of practice for non-physician health professionals.

The Society also represents physicians' interests in other areas of the business and politics of medicine. According to Dr. Rose this is an increasingly important role, and one that serves all physicians.

"It used to be that physicians in academic medicine did not need to concern themselves with the business aspect of medicine," Dr. Rose says. But the practice of medicine is changing on all fronts in the current climate of managed care and in the present litigation-conscious era. She cites the infusion of academic medicine into private practice, as more and more solo practitioners and small private practices grow into large groups, many of which are affiliated in some way with a major medical center.

There are a number of center-stage issues in the theater of medical politics and medical business, not to mention legal issues. Dr. Rose names tort reform as one priority for Pennsylvania, which lags behind other states in this respect. She notes that the medical malpractice climate in this state is costly to physicians and that current law provides no disincentives for nuisance suits, allowing frivolous cases and other examples of "lawsuit abuse." The cost of medications is another priority issue for the Medical Society. Dr.



Carol E. Rose, MD is the first anesthesiologist to serve as President of the Pennsylvania Medical Society.

Rose presents the Society's viewpoint in discussions with members of the PA Legislature, and she has testified on behalf of the medical community before various committees in the state House and Senate. As President of the PMS, she will also be meeting with federal lawmakers and regulators.

Dr. Rose represents the PA Medical Society to other state medical societies in the regional alliance, and to various county medical societies in the state. A past president of the Pennsylvania Society of Anesthesiologists, she was also an alternate delegate of the PSA to the American Society of Anesthesiologists, and is currently a member of the ASA's delegation to the American Medical Association. She has served in numerous offices in the PSA and the Western Pennsylvania Society of Anesthesiologists.

In a recent interview, Dr. Rose expressed gratitude to her fellow anesthesiologists at UPMC-Presbyterian and to Department Chairman Dr. Leonard Firestone for their support, which freed her to spend time in Harrisburg, away from clinical anesthesiology. She also endorses her colleagues' membership in the Pennsylvania Medical Society, stressing that "there is power in numbers." She emphasized that the Society benefits all physicians, remarking that "We need to remember that we are physicians first, and specialists second," adding — with candid enthusiasm for her work — "My specialty is 'Organized Medicine.'"

Albert J. Carvelli, MD,
a CA-2 resident at UPMC,
is the new president-elect
of the Resident Component
of the Governing Council of
the Pennsylvania Society
of Anesthesiologists



Peter Harrigan, B.Med (Hons)

Research Division Welcomes Australian Anesthesiologist/Intensivist

The Department welcomes **Peter Harrigan**, B.Med (Hons) from Australia, as a research associate in the Division of Critical Care Medicine.

Under the supervision of Dr. **Michael Pinsky**, Dr. Harrigan's research is investigating the impact of cardiac pacing on ventricular performance, using a dog model. He also plans to examine the cardiovascular effects of volatile anesthetic agents in a similar preparation and in the operating room.

As a new research fellow, Dr. Harrigan is undergoing concentrated training in the use of transesophageal echocardiography under the supervision of Dr. John Gorcsan. He hopes to apply these new skills to his ICU and operating room studies as well as in his future practice.

Dr. Harrigan earned his Bachelor of Medicine (Honours) from the University of Newcastle, NSW, Australia in 1990. After finishing his training in Anesthesia at the John Hunter Hospital, NSW, Australia in 1998 he moved to

Perth, WA, Australia, where he completed training in Intensive Care in 1999. He is a Fellow of the Australian and New Zealand College of Anaesthetists (FANZCA) and Fellow of the Faculty of Intensive Care Australian and New Zealand College of Anaesthetists (FFICANZCA).

Because of his interest in research, Dr. Harrigan was delighted to take advantage of the opportunity to come to Pittsburgh to further his studies. He arrived this past June, accompanied by his wife Jennifer, who is also a physician and is on sabbatical leave from General Practice. They plan to stay for two years. This is the Harrigans' first extended visit in the United States, and they look forward to exploring the myriad cultural and recreational offerings available here.

Department Hosts Annual Fall Lectures

The UPMC Department of Anesthesiology and Critical Care Medicine held its 6th annual Ake and Inger Grenvik Critical Care Lecture on September 26, 2000. The honored guest lecturer was Richard Hotchkiss, MD, Associate Professor of Anesthesiology, Surgery, and Medicine at the Washington

University School of Medicine in St. Louis. Dr. Hotchkiss has focused his research efforts on the pathophysiology of sepsis. His lecture was entitled "The Role of Programmed Cell Death in Sepsis & Multiple Organ Failure."

On the following day, the Division of Critical Care Medicine held its Research Symposium, featuring another presentation by Dr. Hotchkiss, entitled "Mechanisms of Cell Death in Sepsis." Also participating in the symposium were **Mitchell Fink**, MD, **Russell Delude**, PhD, Daniel Bertges, MD (GMT, Department of Surgery), CCM Fellow **Ramesh Venkataraman**, MD, and Leslie Hoffman, PhD (School of Nursing Acute/Tertiary Care).

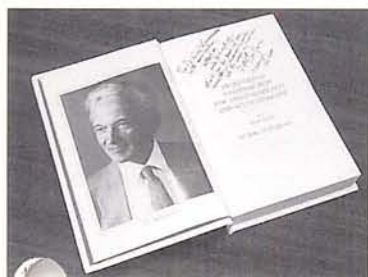
The 21st Peter and Eva Safar Annual Lectureship in Medical Sciences and Humanities was held Thursday, October 26, 2000 in Scaife Hall. The guest speaker was John B. Anderson, President and CEO of the World Federalist Association, President of the Center for Voting and Democracy, and former U.S. presidential candidate. He represented Illinois in the U.S. House of Representatives from 1960 to 1980, and served as States Attorney in Winnebago

County, Illinois for four years. Mr. Anderson served as a staff sergeant in the U.S. Field Artillery during World War II and received an LL.M. degree from Harvard Law School in 1949. The title of his lecture was "On the Pathogenesis and Prevention of Mass Killings," in which he encouraged medical professionals to move beyond a "one-patient-at-a-time" mentality and to be concerned about all threats to humanity, from genocide to nuclear war.

This annual lectureship is currently hosted by **Patrick M. Kochanek**, MD, Director of the Safar Center for Resuscitation Research, and **Leonard Firestone**, MD, Chairman of the Department of Anesthesiology and Critical Care Medicine. It was initiated by former Department Chairman **Peter Winter**, MD, in honor of Dr. **Peter Safar**, Distinguished Professor of Resuscitation Medicine, and his wife Eva, in recognition of their professional and personal contributions to medicine and the humanities. This year's lecture was co-sponsored by the World Federalist Association.

Two Former Chairmen Pen Memoirs

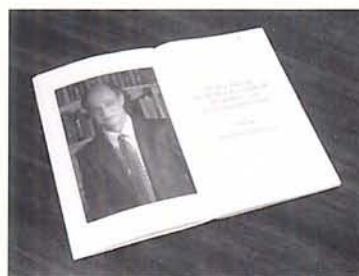
The history of academic anesthesiology and critical care medicine is the practical equivalent of the history of our Department, under the chairmanship first of Dr. **Peter Safar**, followed by that of Dr. **Peter Winter**.



When Dr. Safar arrived in Pittsburgh in May 1961, the five hospitals under his direction boasted a total of three staff anesthesiologists, who, along with about 70 registered nurse anesthetists, handled 50,000 - 60,000 anesthesia cases annually. His first office at Presby was a "broom closet on the OR floor, right next to the OR desk." Under Dr. Safar, a group of trainees with "a mixed experience of anesthesiology, resuscitation, and intensive care...became the first critical care medicine (CCM) fellows

in the world." In the early sixties, he and his colleagues also initiated community CPR activities in Pittsburgh, which were to influence those at the state, national, and international levels. One of his most enduring contributions was the founding of the International Resuscitation Research Center (IRRC) in 1979. After succeeding Dr. Safar as Director of the IRRC in 1994, Dr. Patrick Kochanek led the initiative that gave the Center its current name: the Safar Center for Resuscitation Research.

In July 1979, Dr. Winter took the reins from Interim Chairman Dr. Ryan Cook, and saw the Department through the arrival of Dr. Thomas Starzl and the turbulent and challenging years of the burgeoning transplantation service that he engendered. Around the same time, Dr. Thomas Detre became Senior Vice Chancellor for Health Sciences, and the medical school began a dramatic climb to its present status. Under Dr. Winter's leadership, the Department was able to make the most of this pre-managed-care heyday, recruiting top-notch academi-



cians and administrators, and advancing the work of its world-class researchers.

At the request of the Wood Library-Museum of Anesthesiology, both Dr. Safar and Dr. Winter have written and recently published their memoirs. Reprints of either book are available by request from the respective author.

Promotions

Michael A. DeVita, MD promoted to Associate Professor of Anesthesiology & Critical Care Medicine, secondary appointment in Medicine

Mark E. Hudson, MD promoted to Associate Professor of Anesthesiology & Critical Care Medicine

Dawn A. Marcus, MD promoted to Associate Professor of Anesthesiology & Critical Care Medicine

New Faculty Members Welcome

Welcome to the following faculty members, who recently joined or returned to the Department of Anesthesiology & CCM:

Dr. **Lawrence M. Borland**, Children's Hospital*

Dr. **Charles Brindis**, UPMC Shadyside

Dr. **Stuart W.G. Derbyshire**, Research Faculty

Dr. **Barbara M. Fried**, UPMC Presbyterian

Dr. **Yong (Kato) Han** (Schertz Research Fellow) Children's Hospital

Dr. **Tamas Juhasz**, Children's Hospital*

Dr. **Daniel E. Pickle**, UPMC Presbyterian & UPMC St. Margaret*

Dr. **Ernesto A. Pretto**, UPMC Presbyterian (Returned from ISMETT — Palermo)

Dr. **Iris E. Soliman**, Children's Hospital*

Dr. **R. Scott Watson**, Children's Hospital

*Visiting

International Meetings

American Society of Anesthesiologists

The Department continued its tradition of active and visible participation in major scientific meetings at the American Society of Anesthesiologists Annual Meeting, held October 14-18 in San Francisco.

Susan Firestone, MD was a featured speaker in an ASA-sponsored workshop on "Compliance for Professional Billing Services;" **Rita Patel**, MD hosted a problem-based learning (PBL) discussion entitled "Anesthetic Management of a Morbidly Obese, Diabetic, Preeclamptic Patient with Acute Laryngitis for Emergency C-Section;" and **Raymond M. Planinsic**, MD chaired another PBL discussion entitled "The Patient with End-Stage Liver Disease who Presents for an Exploratory Laparotomy After Percutaneous Liver Biopsy." As a member of the ASA Committee on Research, Department Chairman **Leonard Firestone**, MD reviewed and ranked applications for Starter and Young Investigator awards and Foundation for Anesthesia Education and Research (FAER) Fellowships immediately prior to the annual meeting.

The following abstracts were accepted for presentation:

Wilhelm Behringer, MD: "Suspended animation (SA) I: hypothermic aortic flush

during prolonged exsanguination cardiac arrest (ExCA) in dogs;" "Suspended animation (SA) II: pharmacologic aortic flush during prolonged exsanguination cardiac arrest (ExCA) in dogs;" and "Tempol by aortic arch flush (AAF) for cerebral preservation during 20 min exsanguination cardiac arrest (CA) in dogs: Exploratory experiments;" **Gavin Fine**, MB BCH: "The effectiveness of controlled ventilation using cuffed versus uncuffed ETT in infants;" **Helene Finegold**, MD: "Labor outcomes with bupivacaine and ropivacaine used for epidural analgesia;" **Ferenc Gyulai**, MD: "Isoflurane potentiates GABA_A receptor-mediated metabolic depression *in vivo*: a quantitative positron emission tomography (PET) study;" **Rainer Kentner**, MD: "Antioxidant polynitroxylated albumin (PNA) plus tempol for hemorrhagic shock (HS) in rats I: effects of late treatment;" and "Antioxidant polynitroxylated albumin (PNA) plus tempol for hemorrhagic shock (HS) in rats, II: improved survival with early treatment;" **Jiro Kurata**, MD, PhD: "Pain-related cerebral activation is enhanced by a motor task: an fMRI study;" **Joseph J. Quinlan**, MD: "Mice with glycine receptor subunit mutations are both sensitive and resistant to enflurane;" **John Schaefer**, MD: "Fiberoptic bronchoscopy for the busy anesthesia practitioner;" and "Simulation-based training in applying the ASA

Difficult Airway Algorithm;" **Pei Tang**, PhD: "A closer look at volatile anesthetic interaction with ion channel: one femtosecond at a time;" **Manuel C. Vallejo**, MD: "Walking epidural analgesia: the effect of ambulation on labor duration and maternal outcome;" **Brian A. Williams**, MD, MBA: "Cost-benefit ratios of anesthesia techniques for outpatient ACL reconstruction;" **Randolph Wood**, MD: "Use of simulation in difficult airway management;" **Xianren Wu**, MD: "Liver damage during prolonged cardiac arrest (CA) in dogs;" **Yan Xu**, PhD: "Creator's view of anesthetics: ab initio calculation of halothane and sevoflurane."

International Liver Transplantation Society

The International Liver Transplantation Society held its meeting in conjunction with the meeting of the American Society of Anesthesiologists in San Francisco. At the ITLS meeting, **Raymond M. Planinsic**, MD presented a talk on "Hepatic Failure: Liver Support Devices;" and **Victor Scott**, MD, Chief Anesthesiologist at UPMC Palermo, addressed the audience on "Hepatopulmonary Syndrome."

American College of Chest Physicians

At the annual meeting of the American College of Chest

Physicians, held October 22 - 26 in San Francisco **Michael R. Pinsky**, MD gave an invited lecture on "Cardiopulmonary interactions in the ICU;" and **Luke Chelluri**, MD and **Edwin Ozua**, MD presented an abstract entitled "Age bias in the limitation of life support: a systematic review." **Derek C. Angus**, MD gave invited lectures on "Improving Outcomes in Critical Care," "Manpower: Implications of the Projected Needs for Pulmonary and Critical Care Physicians," "ICU Management" (at the post-graduate course "Critical Care Literature Review"), and "The Epidemiology of Acute Lung Injury" (panel discussion on "Ventilator-Induced Lung Injury").

European Society of Intensive Care Medicine

At the 13th Congress of the European Society of Intensive Care Medicine, held Oct. 1-4 in Rome, **Daniel Martich**, MD spoke on "Measuring the Impact of Information" as part of a thematic session on *Technology Assessment*. **Derek Angus**, MBChB chaired a Thematic Session on *Outcome in High-Risk Patients* and gave talks at other sessions, including "Critical Care Needs in a U.S. Population," and "Health Demographics: An International Perspective."

Western Pacific Association of Critical Care Medicine

Ake Grenvik, MD, PhD was the invited keynote speaker at the biannual congress of the Western Pacific Association of Critical Care Medicine, held Nov. 29 - Dec. 3 in Singapore. The topic of Dr. Grenvik's lecture was "Alternate Modes of Financing Health Care Technology." He also gave a talk on "Pittsburgh Experiences with Simulator Training." At the same meeting, **Ann Thompson**, MD spoke on the subjects of "Definitions of Death: Brain Death in Infants and Children;" "Controversial Issues in Pediatric Intensive Care;" "Current Approaches to Conventional Mechanical Ventilation in Children;" and "Use of NO in Older Infants and Children."

More Meetings

Samuel A. Tisherman, MD gave two talks at the 19th Annual Meeting of the Japanese Society of Reanimatology, which was held Nov. 16-19 in Tokyo. His topics were: "Recent Progress in Resuscitation at the University of Pittsburgh," and "New Guidelines for Resuscitation from Cardiac Arrest in the USA."

Michael R. Pinsky, MD participated in a number of recent symposia. At the European Respiratory Society's World Congress on Lung

Health and 10th Annual ERS Congress, held Aug. 30 - Sept. 3 in Florence, Italy, he spoke on "Invasive vs. non-invasive monitoring in critically ill patients," and "Management of postoperative problems in the thoracotomy patient." Dr. Pinsky participated in several discussions at the Argentine Congress on Intensive Care in Buenos Aires Sept 16 - 20. He also participated in a workshop on "Mechanical Ventilation Strategies" at the 3rd European-North American Consensus Conference on ARDS, Sept. 29 - 30 in Barcelona, Spain.

Daniel Martich, MD delivered a talk in September at the Grand Rounds/Visiting Professorship, NIH Critical Care Medicine Department on "The Physician Computer Connection." He also spoke on "Bedside Decision-Support Systems," at the World Congress of High Tech Medicine in Hanover, Germany Oct. 17.

Several members of the Division of Critical Care Medicine participated in the **Toronto Critical Care Medicine Symposium 2000**, held October 26 - 28, 2000 in Toronto, Ontario. **Derek Angus**, MBChB was on the Scientific Advisory Committee, and participated in mini-symposia on *New Technology in the ICU*, in which he spoke on "Medical Errors;" and "Improving Practice, Avoiding Errors." Dr. Angus also presented talks on "ARDS —

What are the Costs," "Gender Differences in Sepsis;" and an "Update from Recent Clinical Trials" in the session on *Sepsis Therapeutics*. **Mitchell P. Fink**, MD gave clinical case presentations as part of a mini-symposium entitled *Meet the Professor — Clinical Physiology and Management*. **Randy Wax**, MD gave a presentation on "Critical Care Simulation."

John A. Kellum, MD was one of the Directors of the Acute Dialysis Quality Initiative Conference, which took place Aug. 28 - 30 in New York City. The Conference faculty included **Derek Angus**, MBChB, also of CCM, Paul Palevsky, MD of the Department of Medicine, Renal-Electrolyte Division, and Rinaldo Bellomo, MD, former MCCTP fellow, currently of the University of Melbourne, Australia.

23rd Annual Conference on Shock

At the International Federation of Shock Societies 23rd Annual Conference on Shock, held June 3-6 in Snowbird, Utah, Dr. **Mitchell Fink** presented an "Update on Current Clinical Trials of Adjuncts to Resuscitation to Prevent and/or Treat SIRS and MOF." In conjunction with this Conference, the U.S. Office of Naval Research held a meeting on animal models of severe hemorrhage; **Rainer Kentner**, MD; **Peter Safar**, MD; **Samuel A. Tisherman**,

MD; and **Xianren Wu**, MD presented 15 different models that have been developed and used by the Pittsburgh resuscitation research group since the 1960s. The same four researchers also made poster presentations at the Conference.

NHLBI PULSE Workshop

Institutes of the NIH, including NHLBI, NICHD, NIGMS, and NINDS, along with the Food and Drug Administration and the Department of Defense, sponsored a workshop on Post-Resuscitation and Initial Utility in Life Saving Efforts (PULSE) in Leesburg, VA June 29-30. The purpose of the workshop was to provide recommendations for novel research initiatives in the area of cardiopulmonary resuscitation. Consideration was given to basic science and clinical applications as they apply to the chain of survival. Dr. **Samuel A. Tisherman** co-chaired a discussion group on *Neurologic Preservation* and presented a talk on "Hypothermia." **Nicholas G. Bircher**, MD, also a member of that group, made a presentation on "Cerebral Acid-Base Balance." Dr. **Peter Safar** was a roaming discussant for all seven discussion groups.



Alicia Alvarez, MD
Amalia Bolivar, MD
Pablo Hernandez Brito, MD

Margaret Satchell, MD
Robert Clark, MD



CCM Hosts Three MDs from Venezuela

The Division of Critical Care Medicine welcomed three physicians who came from Venezuela to observe methods of management of critical cases here.

Dr. Alicia Alvarez and Dr. Amalia Bolivar are senior residents in Intensive Care Medicine at the Centro Medico de Caracas, one of the most modern private hospitals in Venezuela, where they care for medical and surgical patients in the ICU. Dr. Bolivar is an anesthesiologist, and Dr. Alvarez has completed a residency in Internal Medicine. While here at UPMC, both observed the management of patients in the Surgical, Trauma, Liver-Transplant, and Cardiothoracic ICUs. Dr. Alvarez, who is especially interested in the early management of trauma patients, also spent one week in the Emergency Department. Dr. Bolivar, whose special interest is surgical patients and pain treatment, spent some time in the Recovery Room, and also had the opportunity to observe administration of neural blocks for limb surgery.

The third Venezuelan physician to visit Critical Care Medicine at UPMC this fall was Dr. Pablo Hernandez Brito. Dr. Brito, also from Caracas, is a

certified internist currently in CCM training at Centro Medico de San Bernardino. During his month at UPMC Presbyterian, he rotated through CTICU, SICU, LTICU, Trauma ICU, and the Emergency Department.

Intensivist Visits from Italy

Following participation in the CCM course sponsored jointly by the Society of Critical Care Medicine and the American College of Chest Physicians last July and August in Pittsburgh, Italian physician Dr. Alfredo Pazzaglia remained in the city an additional week to observe care in the Cardiothoracic ICU at UPMC. Dr. Pazzaglia graduated from the University of Siena. After training in both cardiology and intensive care, also in Siena, he began his residency in anesthesiology and critical care medicine. That residency will be complete at the end of this calendar year. During his visit to UPMC, Dr. Pazzaglia also joined Dr. John Gorcsan in the Division of Cardiology to observe performance of echocardiography, a special interest of his.

Israeli SCRR Alumnus Pays Brief Return Call

Yuval Leonov, MD, who was a research fellow at the Safar Center for Resuscitation

Research (SCRR) in 1987-89, is now Co-director of the ICU of the Assaf Harofeh Hospital in Zerifin, Israel. This year he took a three-month sabbatical leave, which he divided among institutions in several countries. He chose to spend one month of his leave in Pittsburgh, not surprisingly to visit the Safar Center and Drs. Peter Safar and Sam Tisherman, with whom he worked on his research projects 12 years ago. In addition, he was an observer in the ICUs at UPMC and the VAMC during July and August. On August 8, he presented a CCM Grand Rounds on the topic of heat stroke, providing not only personal information from Israel, but also very interesting data from the heat-stroke epidemics occurring during pilgrimages to Mecca in recent years.

Dr. Leonov was born in Haifa, Israel and graduated from medical school in Milan, Italy. He returned to Israel, where he is board certified in Internal Medicine, and where he received his CCM training, in Zerifin. His associate ICU co-director at Assaf Harofeh is another internist, Dr. Gav Lewinson, who also trained in our program as a CCM fellow some twenty years ago.

Awards and Honors

Best Paper by a Trainee — is 'by Dr. Margaret Satchell'

Pediatric Critical Care Medicine Fellow **Margaret Satchell, MD** won the Murray Goldstein Award for the top paper by a trainee at the 18th Annual National Neurotrauma Society Symposium for her paper entitled "Formation of Poly-ADP-Ribose Polymers in the Human Brain after Head Injury." About 250 papers were presented at the meeting. According to Dr. **Patrick Kochanek**, this is a very rigorous competition, chiefly engaging PhD postdoctoral trainees in the field of Neurotrauma. Twenty finalists are "visited" by two teams of judges and questioned about their work. Dr. Satchell's mentor is **Robert SB Clark, MD**.

"Margaret and Bob should be congratulated on this important accomplishment for the Safar Center and the University of Pittsburgh Brain Trauma Research Center," Dr. Kochanek says. The Neurotrauma Symposium was a satellite symposium of the 30th Annual Meeting of the Society for Neuroscience, held November 3 - 4 in New Orleans.

Welcome, Residents & Fellows

Best wishes to the new residents and fellows who have become part of the Department during Academic Year 2000-2001.

The following Anesthesiology residents are new to our Department this year:

Meera Appaswamy, MBBS
Li-Ming Zhang, MD
Albert (AJ) Carvelli, MD
Catalin Ezaru, MD
Minzhi Chen, MD
Tong Li, MD
Dean Mariano, DO
Brion Roman, MD
Kevin Schmalenberger, MD
Barry Severs, MD
Nikolay Stamboliyski, MD
Zuzana Stehlikova, MD
Eric Wilkens, MD
Jia Xu, MD

The following have embarked on one of our Department's Fellowship programs.

Pediatric Anesthesia Fellowship

Jesus Apuya, MD
Greg Cambier, MD
Peter Hatzidiakos, MD
Felice Vabnick, MD

Cardiac Anesthesia Fellowship

Semyon Fishkin, MD

Pain Management Fellowship (photos not available)

Doug MacLear, MD
Athanasios Magimbi, MD
Victor Georgescu, MD

MCCTP Fellowship Internal Medicine

Fuad Hajjar, MD
Azmat Qayyum, MD
Juan Canabal, MD
Victor Okwiya, MD
Victor Gomez, MD
Abdul-Karim Haffar, MD
Salam Rajjoub, MD
Ravichandran Theerthakarai, MD
Mohammed Hafez, MD
Stylianios Kakoullis, MD
Alison Gimbel, MD
Jan Levora, MD
Ibrahim Almasry, MD
Karen Barr, MD

Surgery

Stuart Leon, MD
Moustafa Hassan, MD

Anesthesiology

Shashank Saxena, MD

Pediatric Critical Care Medicine

Kathryn Felmet, MD
Melinda Fiedor, MD
Paul Shore, MD



Dr. Appaswamy



Dr. Zhang



Dr. Carvelli



Dr. Ezaru



Dr. Chen



Dr. Li



Dr. Mariano



Dr. Roman



Dr. Schmalenberger



Dr. Severs



Dr. Stamboliyski



Dr. Stehlikova



Dr. Wilkens



Dr. Xu



Dr. Apuya



Dr. Cambier



Dr. Hatzidiakos



Dr. Vabnick



Dr. Fishkin



Dr. Hajjar



Dr. Qayyum



Dr. Canabal



Dr. Okwiya



Dr. Gomez



Dr. Haffar



Dr. Rajjoub



Dr. Theerthakarai



Dr. Hafez



Dr. Kakoullis



Dr. Gimbel



Dr. Levora



Dr. Almasry



Dr. Barr



Dr. Leon



Dr. Hassan



Dr. Saxena



Dr. Felmet



Dr. Fiedor



Dr. Shore

Resuscitation Field Recognizes Dr. Safar

Distinguished Professor of Resuscitation Medicine Peter Safar, MD continues to garner accolades for his accomplishments in the art and science of resuscitation medicine. The Chicago-based Save A Life Foundation (SALF) honored Dr. Safar on September 22 with its highest award.

The Johns Hopkins School of Medicine Division of Cardiology invited Dr. Safar to deliver the keynote address September 18th at their Symposium Honoring the 40th Anniversary of Cardiopulmonary Resuscitation. His talk was entitled "Brain Resuscitation." He also

presented a special evening talk on "The History of Cardiopulmonary Cerebral Resuscitation (CPCR) Research in the 1950s and 1960s."

The American Society of Anesthesiologists selected Dr. Safar to deliver the Lewis H. Wright Memorial Lecture for the noteworthy year of 2000. Dr. Safar presented his lecture, "On Resuscitation Medicine from 1000 to 2000 C.E.," October 17 at the ASA's Annual Meeting in San Francisco. The major portion of his talk focused on



A youthful Peter Safar (right) and associates "bag" a volunteer during resuscitation research conducted at Baltimore City Hospital in the 1950s.

progress in resuscitation medicine made during the 20th century. Much of that progress took place under his leader-

ship at the University of Pittsburgh.

Finally, Chancellor Mark A. Nordenberg, in his welcoming address to guests of Pitt's Discovery Weekend (See story on Page 6), boasted of the University's claim to fame in "Peter Safar, whose work as the 'father' of cardio-pulmonary resuscitation...and as the founder of the science of critical

care medicine, has saved millions of lives."

DEPARTMENT OF ANESTHESIOLOGY/CCM
www.anes.upmc.edu

MULTIDISCIPLINARY CRITICAL CARE TRAINING PROGRAM
www.anes.upmc.edu/mcctp

SAFAR CENTER FOR RESUSCITATION RESEARCH
www.safar.pitt.edu

Department of Anesthesiology and Critical Care Medicine University of Pittsburgh Medical Center

A1305 Scaife Hall
Pittsburgh, PA 15261
412-648-9623

Chairman
Leonard L. Firestone, MD

Editor
Ake Grenvik, MD, PhD
Production Editor
Patricia A. Boyle