

Heart Action



at The Cardiac Center of Creighton University

May, 1998

One of the First 25 in the USA!

Mildred Parker, of Red Oak, Iowa became one of the first 25 people in the United States to receive the world's first implantable defibrillator system to incorporate dual-chamber adaptive-rate pacing capability. Her defibrillator was implanted March 26, 1998 at Saint Joseph Hospital. The device's U.S. market release was announced March 19, 1998.

Dr. Nazih Kadri, a Creighton Cardiologist, said "There are thousands of patients today who have two implants, a pacemaker and a defibrillator. With this technology, the patient benefits by having only one device implanted."

Designed and manufactured by Guidant Corp. of Indianapolis, Ind., this system's adaptive-rate pacing capability automatically and continuously determines the level of pacing support required as a patient's activity changes. Patients with more active lifestyles can benefit from pacing that matches their needs.

Additional technology in this defibrillator equips it to discriminate between ventricular rhythms that are life threatening and supraventricular arrhythmias that are not.

Mildred Parker comments, "My first feeling is of being warm. My pacemaker and defibrillator is set at 65 and now I'm not running to turn the heat gauge up. It's wonderful this way. I also have a feeling of being taken care of and I do not see any limitations."



Mildred Parker

Continued Growth in 1997

by **Susan Walsh RN, BSN**
Administrative Director

The cardiologists and staff of The Cardiac Center of Creighton University continued to expand our services for patients and referring physicians in 1997. Creighton cardiologists joined the medical staff at Methodist Hospital in Omaha in order to meet the changing insurance needs of our patients. Our Anticoagulation Clinic also opened services to Primary Care Physicians who wish to have their patients receive individualized education about anticoagulation therapy and consistent monitoring of PT/INRs.

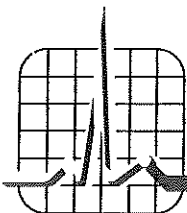
Our cardiac and carotid ultrasound services were added to four additional Outreach clinics. Ten Outreach clinics took advantage of our new 24-hour transtelephonic event recorder service. We also instituted CardiacFax, an electronic facsimile system which provides prompt delivery of Cardiac Center patient reports, for our referring physicians and Outreach sites.

We had a record year for the evaluation of new patients in 1997. Our cardiologists evaluated an average of 291 new patients each month, both inpatient and outpatient. This is a 16% increase over 1996.

While our Omaha Outpatient Clinic and Cardiac Prevention/Rehabilitation visits remained steady, our 16 Outreach Clinics saw a 13% increase in patient visits from the previous year. This volume demonstrates our commitment to providing quality cardiovascular services to the rural communities of Nebraska and Iowa. Creighton cardiologists provided 86 physician days of service each month of 1997 at the various Outreach locations.

In 1998 we will carry on our commitment toward expansion of current services as well as development of new services for our customers. Our commitment, along with your support, will enable us to continue accomplishing our mission of quality patient care through education and research.

	1994	1995	1996	1997
Outpatient clinic visits	5400	6167	6762	6705
Outreach visits	6003	7320	8293	9365
Prevention & Rehab visits	20,391	25,789	27,305	27,612
New patients	3,116	3,028	3,205	3,496



From the Chief...



The pace of activity at The Cardiac Center continues to accelerate with each month and year, as the report of our Administrative Director, **Susan Walsh**, indicates. We are pursuing our three cardinal objectives, quality patient care through education and research, with ever

increasing modes of service. In this edition of **Heart Action**, you will read of services that cover a wide spectrum of patient care. **Dr. Nazih Kadri's** participation in the implantation of one of the world's first implantable defibrillator system with dual-chamber adaptive-rate pacing capability places us at the forefront providing this new technology for patients at The Cardiac Center.

He made it available to our patient within 10 days after it was released for use in the United States in March. Since then, eight other patients have also benefitted from this technology at The Cardiac Center.

Our cardiologists continue to see patients at **Methodist Hospital** in Omaha. In fact the number of our physicians has increased from five (**Drs. W. Paul Biddle, Michael Del Core, Thomas Lanspa, Aryan Mooss, and Mark Woodruff**) to 11 with the addition of **Drs. M. Jeff Holmberg, Nazih Kadri, Joseph Lynch, Tom Pagano, Karen Rovang, and myself.**

Should the need arise for patients to have our consultative services at Methodist Hospital, please call **1-800-CDR-STAT (1-800-237-7828)**, 24 hours a day to speak with the cardiologist on call. The number in the Omaha Metro area is **345-7828.**

Other new or expanded services available to patients referred to The Cardiac Center include the invasive PTRAs – percutaneous transradial approach versus the groin artery. **Drs. Thomas Lanspa and Michael Del Core** have lead our involvement with this procedure.

Another service expanding remarkably is our Creighton Transtelephonic Arrhythmia Network (CTAN). We provide event recorders in our referring physicians' offices and in outreach clinic hospitals, as well as train staff members in the use of the equipment. They can then introduce selected patients to this diagnostic tool. An accompanying article in this edition of **Heart Action** details its progress.

A fascinating sidelight to all this new and expanded activity is the fact that our staff has not expanded. That means that our cardiologists, nurses, other professional healthcare providers and support staff are shouldering the additional workload. And they're doing it admirably. Creighton is fortunate to have such dedicated professionals on its team.

A feature article in this edition of **Heart Action** newsletter, "Clinical Research at The Cardiac Center," details the scope of our second targeted objective. The third, education, will have to wait for another column, in a future edition.

Syed Mohiuddin, MD
Chief, Cardiology Division
Director, The Cardiac Center

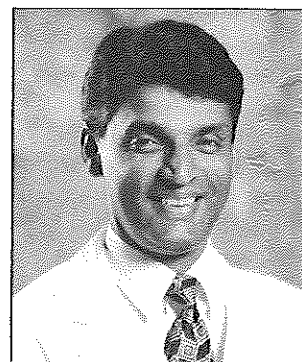
Profile of a Creighton Cardiologist

Aryan N. Mooss, MD entered Creighton's Cardiovascular Fellowship Training Program in 1975. A native of India, Dr. Mooss graduated from the Medical College at Kottayam University of Kerala, India in 1969. He completed an internship at Kottayam Medical College Hospital in 1970; was Junior Medical Officer at St. Rita's Hospital in Changanaserry, Kerala, in 1971. This was followed by an Internship at St. Charles Hospital in Toledo, Ohio, which he completed in 1972.

Dr. Mooss finished his Residency in Medicine at the Medical College of Ohio and Associated Hospitals in 1974, as Chief Resident. He was both a Clinical Instructor in Internal Medicine and in the Cardiology Fellow program in the Toledo Hospital under the Medical College of Ohio in 1974-75.

Dr. Mooss is a Fellow of the American College of Cardiology, the American College of Physicians and the American College of Chest Physicians. He is the Governor-Elect of the Nebraska Chapter of the American College of Cardiology for 1997-98.

Dr. Mooss has been Medical Director of the Cardiac Care Unit at Saint Joseph Hospital since 1977, and is the Director of Clinical



Aryan N. Mooss, MD

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CTAN Service Update

by **Timothy Ryan, RN**
CTAN Coordinator

The Cardiac Center service, Creighton Transtelephonic Arrhythmia Network (CTAN), has been operational for more than a year. Since the CTAN inception, 11 hospitals have enrolled in the service with each hospital having 2-6 recorders available at their institution.

This 24-hour service provides outreach clinic hospitals with event recorders and training of the outreach personnel on their use. The outreach clinic staff issues the recorders to the patients and instructs them on their use. The patient is given a toll-free number for transmitting the EKG to The Cardiac Center.

Cardiac event recording is a valuable diagnostic tool used to correlate clinical symptoms with arrhythmia. The cardiac event recorder is connected at all times to the patient and continually records the patient's EKG.

When the patient has symptoms of palpitations, dizziness or near fainting, they activate the recorder. When activated, the recorder "freezes" the last 50 seconds in memory and records an additional 50 seconds. The recording is stored in memory and transmitted to The Cardiac Center for interpretation.

When the staff in Computer Arrhythmia Monitoring receives the transmissions, they interview the patient regarding the time and date of the recording, the patient's activity and any associated symptoms. The patients are encouraged to transmit the recording as soon as possible after they obtained it.

While they are interviewing the patient, the technicians evaluate the patient's rhythm and place it in one of three

classifications: benign, "rhythm of concern," or life threatening.

If they classify the rhythm as one of concern, they give the recording directly to the cardiologist for management. The cardiologist will contact the ordering physician for further patient management. If the rhythm is in the life threatening category, the technician will keep the patient on the phone while they notify the patient's local EMS.

The local EMS will transport the patient to the local hospital for care. A copy of the recording is faxed directly to the emergency room for the treating staff to review. Transmissions are faxed to the ordering physician within 24 hours of reception.

The CTAN service has been well-received by the outreach clinic hospitals, referring physicians, and especially by the patients. Through the end of February, 1998 the service had enrolled 95 patients and they had transmitted a total of 438 events. Between 20-25 new patients are added to the service every month and the technicians receive approximately 80 transmissions per month.

The future of the CTAN service will include enrollment of physician offices in the Omaha metropolitan area. Like the outreach hospitals, the physicians' offices will issue the recorder to the patient. As with the outreach clinic hospitals, the referring physician is the primary contact and care giver for the patient.

For further information regarding this service, please contact the CTAN Coordinator, **Timothy Ryan, RN**, **Francie Badura, RN** or the CTAN Medical Director, **Dr. Nazih Kadri**, at (402) 280-4566.

New Manager of Clinical Services Named

Lori Umberger, RN, BSN was appointed the new Manager of Clinical Services on March 23, 1998. Lori is a 1998 graduate of UNMC College of Nursing. She is also a Registered Cardiovascular Technician with a specialty in invasive cardiology.

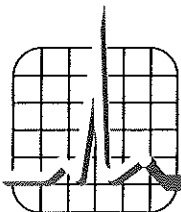
Prior to joining The Cardiac Center, she worked in ICU-CCU at St. Elizabeth Hospital in Lincoln, and in the Coronary Care Unit of Saint Joseph Hospital in Omaha.

Lori has held several positions in our Catheterization Lab since she began working here in February of 1990, the most recent being the Cath Lab Supervisor. She also

was the Coordinator of staff educational programs for customer service inservices and multiple other programs for nursing, ancillary and supervisory staff members.

As Manager of Clinical Services, she is responsible for ensuring quality cardiovascular services are provided in our 12 clinical sections.

Lori is a member of Cardiovascular Credentialing International and the American Academy of Ambulatory Care Nursing.



Employees of the Quarter in 1997

During 1997, we recognized these four employees for their sustained outstanding performance.

The **January - March** honoree was **Eddy Butkus, RN, BSN** Nurse Specialist in our Clinical Research section. Eddy works with patients involved in our cardiac drug research studies, following up with their questions and scheduling appointments during the study, inputting data for required reports on each study, and identifying new patients. Known for her enthusiasm and great rapport with her patients, this 13-year employee was also recognized for her dedication to her duties, her willingness to help others when they are busy, and her way of finding something positive in almost any situation.



Eddy Butkus, RN, BSN

Vickie Hough was the **April - June** Employee of the Quarter. As Coordinator of the Rounds Office, she is responsible for coordination of patient admissions and daily maintenance of in-house rounds lists for Saint Joseph Hospital, Alegen Health Bergan Mercy Medical Center, and Methodist Hospital. That means she obtains the required information and assigns patients to the appropriate rounds team for all cardiology inpatient admissions, consultations, 23-hour catheterization patients, and MedFlight patient transportation. This 11-year employee is known for her caring personality and her effective communications skills help keep rounds physicians' sanity.



Vickie Hough

The recipient of the award for the **July - September** quarter was **Teri Hoppe**, Manager of Patient Accounts and Division Accounting. An 11-year employee of Cardiology, Teri is responsible for implementing and supervising overall Accounts Receivable policy and maintaining a proper audit trail. She is also responsible for financial analysis and oversight of the Saint Joseph Hospital contract with Cardiology, as well as the preparation and compilation of budgets for all sections in Cardiology. She was hailed for not asking anyone to do anything she wouldn't do as well...for being upbeat and always looking for the good her staff does while gently pointing out errors.



Teri Hoppe

The **October - December** awardee was **Lori Umberger, RN**. A seven-year employee of The Cardiac Center, Lori had been the Supervisor of the Catheterization Labs for nearly a year before she was named Manager of Clinical Services in March of 1998. She is well-respected by her peers for her nursing knowledge and expertise in the Catheterization Lab. Lori is also known for her leadership skills...an excellent team leader. She can always be counted on for help and support. She also coordinated the staff educational programs for nursing, ancillary and supervisory staff members.



Lori Umberger, RN, BSN

Clinical Research at The Cardiac Center

by Lois Stengel, RN, BSN
Supervisor of Clinical Research

At The Cardiac Center, we strive to provide "Quality Patient Care Through Education and Research." Discoveries and knowledge gained through research can lead to the development of innovative ideas and guide clinical practice toward helping to improve treatment in the cardiac patient. With its primary focus on the patient, the Clinical Research Section works to achieve these goals.

The Research Section of the Creighton Cardiac Center has been active since its establishment in 1982 by Dr. Syed Mohiuddin. At that time, the staff consisted of one research coordinator, one study nurse, and one clinical pharmacist. Since then, the staff has been expanded and the number and types of studies have grown. For several years, the research section was comprised of two separate areas: the Drug Evaluation Clinic and the Research Data Management office. In the past two years, the two areas have been consolidated into one area, the Clinical Research Section.

The current medical director of the section is **Dr. Aryan Mooss**. Several other cardiologists also serve as principal investigator or co-investigator of studies. The staff currently consists of an RN Research Supervisor, Clinical Pharmacist, two part-time and one full-time Nurse Specialists, three Research Technicians, a Research Pharmacy Fellow, and a Biostatistician.

Currently, the Research Section is active in approximately 15-20 cardiovascular studies, both prospective and retrospective. We conduct studies sponsored by pharmaceutical companies, as well as independent projects developed by the Cardiologists, Fellows, or Clinical Pharmacists at The Cardiac Center. Company-sponsored studies are typically multi-center, that is, conducted at various sites across the United States and sometimes internationally as well.

Studies may be performed on an outpatient or inpatient basis. While the outpatient studies are conducted in our Outpatient Clinic, inpatient studies are conducted at Saint Joseph Hospital. Each site is contracted for a specific number of patients to be enrolled within a designated time frame.

With the goal of gaining new knowledge of cardiovascular disease and providing new cardiac drug therapy for its patients, ongoing research currently includes studies in these areas: hypertension, congestive heart failure, cardiac arrhythmias, ischemic heart disease, myocardial infarction, open heart surgery, coronary angioplasty/stent, and hypercholesterolemia.

Before a study is initiated, several steps must be taken. Regulatory documents are filed with the pharmaceutical company and the Food and Drug Administration (FDA). Each study must be reviewed by the Creighton Institutional Review Board (IRB) to ensure that the research meets ethical and safety standards. Following approval, recruitment of patients takes place. This may be done by extensive chart review, advertisements, review of various patient reports, and by physician referral.

A patient interested in participating in a clinical study frequently has several questions or concerns. Some of these may include the following in the outpatient setting:

Will the study center require my medical records?

Yes, studies have very strict eligibility criteria. It is important for the research personnel to thoroughly review your records to ensure that you qualify for the study. All records are, of course, kept confidential.

Do I need to give my permission to be enrolled in a study?

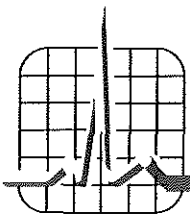
Yes, all patients must sign an informed consent which has been approved by the pharmaceutical company and the Creighton University Institutional Review Board (IRB). Before starting the study, the cardiologist, study nurse or pharmacist will explain the purpose of the study, the requirements and duration, the risks (including possible side-effects) and benefits of the research.

This information is all included in writing in the informed consent. You are encouraged to ask questions. You should sign the consent form only if you feel comfortable with the study requirements and all of your questions have been answered to your satisfaction.

What about my personal physician?

It is The Cardiac Center's practice to obtain permission from a patient's referring physician prior to enrolling their patients in a study. Periodic study progress reports are sent to the referring physician's office to keep the physician informed. The study physician or cardiologist does not "take the place" of your personal physician but instead works with him or her in coordinating your health care.

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Clinical Research at The Cardiac Center

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What can I expect from study visits?

The research study nurse or pharmacist will review your visit schedule with you when you start the study. It is important that you maintain this schedule as much as possible. At the study visits, you may be required to have various tests done, including blood work.

Study nurse specialists will ask you questions about your clinical condition, evaluate possible side-effects, and give you instructions regarding your medications and study schedule. At certain visits, the cardiologist will give you a physical exam and evaluate any problems you may be having.

Will I be given a prescription for the study medication?

No, your study medication will be provided at The Cardiac Center and dispensed by a research pharmacist. At each visit, you will be given a supply of study medication. It is important that you take your medications as instructed. Patients should keep and return all bottles or cards of medication. The Research Pharmacists must keep an accurate account of all study medication.

Depending on the study, keep in mind that your medication may be "blinded." This means that you may not know the identity of the drug you are receiving. Instead, you will be randomly selected to receive an active medication or at times a placebo (or inactive pill). Study personnel can always find out the identity of the drug, if medically necessary.

Why should I participate in a study?

Depending on the study, there are several reasons why patients participate in studies. First, it may give the patient the opportunity to receive new drug therapy for conditions in which previous treatment has not proven effective. The extra information gained may also be helpful in treating the patient. Second, the patients will receive close follow-up and monitoring. Third, usually all study visits and testing procedures are at no cost, if the study is sponsored by a pharmaceutical company. Some studies offer compensation for time and travel as well. Finally, many patients express satisfaction in knowing that their contribution may help to improve treatment for other cardiac patients.

The patient should also be aware of the duration of the study. This can range from 24 hours to 5-6 years.

Behind the scenes, there are various aspects of research that are vital to keeping the studies running. One of the requirements of a pharmaceutical study is the completion of a detailed case report form for each study patient.

These reports are kept up to date and frequently reviewed by Clinical Research associates. It is important that the data be accurate and precise since it may eventually be submitted to the FDA for review, especially in the case of a new drug application.

It is also essential to keep the pharmaceutical company and the IRB informed of any adverse serious events. Ongoing reports regarding a study's progress are also provided to the IRB.

In addition to case report completion, the Research Nurse Specialists are involved in technical duties such as processing lab samples, patient letters, and reports to referring physicians. The Clinical Research Pharmacists maintain drug accountability records and provide pharmacology education programs for both pharmacy and medical students. They also prepare and present publications and posters.

Research Technicians are primarily involved in data entry. They maintain and update computer databases on individual studies. Statistical analysis is performed on selected studies after data collection is completed. Following data analysis, the study may be submitted for grants or publication.

The Clinical Research Section is a multi-faceted and diverse area. Through the various research projects, new approaches and advances can be made in the area of cardiac treatment. This not only benefits The Cardiac Center but also contributes to the scientific community at large.

In the long run, however, the main objective is to benefit the individual patient. This can be achieved by our ability to offer new drug therapy to patients in whom conventional treatment has not proven effective. Certain studies, such as the ALLHAT hypertension trial, also benefit the local community by the collaboration with other clinics in the area. Finally, the "Research Team" hopes to discover new ways to promote an improvement in the patient's quality of life through new treatment options available at The Cardiac Center.

1998 Cardiac Rehabilitation Patient Recognition Party

by **Lisa Schroeder, MA**
Exercise Specialist

The annual cardiac rehabilitation patient recognition party was a big success this year. One hundred thirty-five cardiac rehabilitation participants, their spouses and significant others, along with cardiac rehabilitation and prevention staff members attended.

The party was hosted at Picollo's Restaurant with **Dr. Mark Williams** as the emcee. Several door prizes were given away this year, including handmade specialties by some of our very own exercise participants.

Bill Derby carved and painted a bluejay cane and **Augie Genovesi** handcrafted a clock and a very fun candy dispenser. Handmade items like these are always very special and appreciated.

We recognized our participants who have been with us for a significant amount of time. We gave special recognition to those people who have participated in our program for two years and have completed 200 exercise sessions. These people are: **James "Drue" Benson, Darrell Bermel, Naomi Veland Brunt, Warren Cifuno, Wayne Gentry, Edward Hanlon, Bud**

Henderson, Claudia Herdzina, William Masters, Johnny Nash, Paige Parker, James Pate, Emil Radik, Jr., Francis Ridley, MaryAnn Roberts, Alcurtis Robinson, John Slyh and Virginia Ward.

There are eight participants who deserved special recognition for participating in our program for at least five years and completing 500 exercise sessions. They are: **Nellie and Rollo Arthur** (that is what you call great support!), **George Clifford, Robert Dawson, Shirley Nocita, Glenn Ruff, Matthew Severin, and Ron Strawn.**

Lastly, we recognized four people who have participated in our program for at least 10 years while completing 1,000 exercise sessions, now this is dedication! This group included: **Donald Bienhoff, Dale Harris, Don Wilde and Robert Young.**

Congratulations to all of you who participate in our cardiac rehabilitation program and are striving to make lifestyle modifications for healthier living. Keep up the good work!!!

Ambulatory Blood Pressure Monitoring

by **Lori Umberger, RN, BSN**
Manager of Clinical Services

Ambulatory blood pressure monitoring is another service available at the Creighton Cardiac Center. Twenty-four hour monitoring plays an important role in diagnosing and treating patients with borderline hypertension.

This monitoring device obtains multiple readings over a specified time period rather than a one-time measurement. The device is pocket-sized, virtually noiseless and automated. The monitor is generally worn over a 24-hour period. It is programmed to record blood pressure at 15 minute intervals during waking hours and 30 minute intervals during the night.

The patient is instructed to maintain a diary of activity which will be correlated with blood pressures throughout the report. A final report will be sent to the requesting physician within 48 hours after the device is returned to The Cardiac Center. It will summarize the hourly

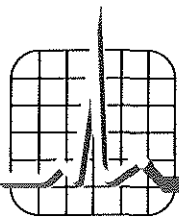
averages and daily maximum and minimum blood pressures and heart rates.

From a financial standpoint, this service is \$240.00 per each 24-hour period. We will file the diagnostic test with the patient's insurance carrier(s). At the current time, the majority of insurance companies do not reimburse for this service. However, we anticipate this will change as utilization increases.

Ambulatory blood pressure monitoring provides valuable information which can be used to:

1. Selectively choose antihypertensive medication based on the patient's specific needs;
2. Improve blood pressure control;
3. Reduce unnecessary health care costs.

If you have a patient who may benefit from this diagnostic tool, please call **1-800-237-7828**, or in Omaha **345-7828**.



Profile of a Creighton Cardiologist

Continued from page 2

Research at the Creighton Cardiac Center. He is also the Co-Director of Academic Affairs at The Cardiac Center and the Director of our Cardiovascular Fellowship Training Program.

He was named Associate Professor of Medicine at the Creighton University School of Medicine in 1984. His research interests are in diagnosis and treatment of coronary heart disease, echocardiography, and the pharmacologic therapy of cardiac arrhythmias.

Dr. Mooss is also a consulting cardiologist at three Outreach Clinic Hospitals in Iowa and Nebraska.

Some of Our Pacesetters

Karen Beckman, RN, MSN, a Nurse Specialist in our CVD Prevention & Cardiac Rehabilitation program, graduated from the Creighton University School of Nursing with a Master of Science in Nursing degree on May 18th. Karen heads up our Cardiac Upbeats support group for patients affected by congestive heart failure and/or cardiomyopathy.

Bill Jutz, MS, CREI-GARD Systems Manager in Computer Arrhythmia Monitoring, also graduated from Creighton with a Master of Science in Computer Science degree on May 18th.

Cardiologist, **Nazih Kadri, MD**, has been promoted to Associate Professor of Medicine in the Creighton University School of Medicine.

DeAnn Springer, RN, BS, has been selected the new Supervisor of our Catheterization Labs. DeAnn has been

Thank You!

Ali Seyedroudbari, PharmD, Research Pharmacy Fellow, recently received the following letter from a patient living in Council Bluffs, IA:

Ali,
I had to have two cholesterol tests. My results on April 27th were 204. I went back on May 5th and I am sending you those results, which are normal.
Dr. Kadri has taken me off Lasix completely, as of April 29th and I am doing fine. The way you encouraged ;me to watch my salt has helped make this possible. And now I am more aware of dietary effects on cholesterol. And I "push myself to exercise."
Keep giving your patients your good advice. It works!

Martha Barker

a Cath Lab nurse for 3 1/2 years. She had been a Staff Nurse in the Coronary Care Unit of Saint Joseph Hospital prior to joining The Cardiac Center.

Jami Olander Terry, MS, a Technician in our Computer Arrhythmia Monitoring section, received her Master of Science in Exercise Science degree at the University of Nebraska at Omaha last December. Jami's graduation was inadvertently omitted from the last "Heart Action" newsletter.

Lori Umberger, RN, BSN, RCVT, Manager of Clinical Services, was featured in a "Spotlight Interview" for a recent edition of the *Cath-Lab Digest*. The official publication of the Society of Invasive Cardiovascular Professionals, consisted of an extensive interview of Lori (1 1/4 pages), plus photographs of The Cardiac Center building and of the Cath Lab Staff.

Educational Opportunities

Date	Title, etc.	Contact for Information
5/1♦♦♦	Case Management Conference by Cardiac Center Faculty/Fellows Auditorium, The Cardiac Center 1:00 - 2:00 p.m.	Kathy Mizer (402) 280-4626
5/4♦♦♦	Cardiology Grand Rounds "Coronary Plaques" by Joseph Ayoub, MD Auditorium, The Cardiac Center 1:00 - 2:00 p.m.	Kathy Mizer (402) 280-4626

Date	Title, etc.	Contact for Information
5/6	Cardiac Rehabilitation Patients Class "Angina—Is it or isn't it?" by Tami Docken, RN, BSN Rehab Area, The Cardiac Center 8:30 a.m., 10:45 a.m., 1:50 p.m., and at 2:50 p.m.	Karen Hardy, RN (402) 280-4929

♦♦♦CME category I one hour credit given

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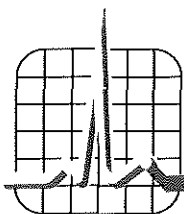
Educational Opportunities

Continued from page 8

Date	Title, etc.	Contact for Information	Date	Title, etc.	Contact for Information
5/7♦♦♦	EKG Conference by Aryan Mooss, MD Auditorium, The Cardiac Center 1:00 - 2:00 p.m.	Kathy Mizer (402) 280-4626	5/27	Cardiac Rehabilitation Patients Class "Atrial Fibrillation" by Martha Monnig, RN Rehab Area, The Cardiac Center 8:30 a.m., 10:30 a.m., 1:50 p.m., and at 2:50 p.m.	Karen Hardy, RN (402) 280-4929
5/8♦♦♦	Case Management Conference by Cardiac Faculty/Fellows Auditorium, The Cardiac Center 1:00 - 2:00 p.m.	Kathy Mizer (402) 280-4626	5/28♦♦♦	CV Research Conference by Drs. Muhammed Akram, Hari Baddigam, and Atul Chawla The Cardiac Center 1:00 - 2:00 p.m.	Kathy Mizer (402) 280-4626
5/11	Journal Club by Aryan Mooss, MD Room 209, The Cardiac Center 6:00 - 8:00 p.m.	Kathy Mizer (402) 280-4626	5/29♦♦♦	Case Management Conference by Cardiac Faculty/Fellows Auditorium, The Cardiac Center 1:00 - 2:00 p.m.	Kathy Mizer (402) 280-4626
5/13	Cardiac Rehabilitation Patients Class "How Do I Count Fat Grams?" by Karen Beckman, RN, BSN Rehab Area, The Cardiac Center 8:30 a.m., 10:45 a.m., 1:50 p.m., and at 2:50 p.m.	Karen Hardy, RN (402) 280-4929	6/1♦♦♦	Cardiology Grand Rounds tba by Hari Baddigam, MD Auditorium, The Cardiac Center 1:00 - 2:00 p.m.	Kathy Mizer (402) 280-4626
5/14♦♦♦	CV Research Conference by Drs. Muhammed Akram, Hari Baddigam, and Atul Chawla Auditorium, The Cardiac Center 1:00 - 2:00 p.m.	Kathy Mizer (402) 280-4626	6/3	Cardiac Rehabilitation Patients Class "Manage Your Stress" by Tami Docken, RN, BSN Rehab Area, The Cardiac Center 8:30 a.m., 10:30 a.m., 1:50 p.m. and at 2:50 p.m.	Karen Hardy, RN (402) 280-4929
5/15♦♦♦	Case Management Conference by Cardiac Faculty/Fellows Auditorium, The Cardiac Center 1:00 - 2:00 p.m.	Kathy Mizer (402) 280-4626	6/4♦♦♦	EKG Conference by Jim Terakubo, MD Auditorium, The Cardiac Center 1:00 - 2:00 p.m.	Kathy Mizer (402) 280-4626
5/18♦♦♦	Cardiology Grand Rounds "Timing of Repair/Replacement in Chronic Mitral Regurgitation" by Kiran Gangahar, MD Auditorium, The Cardiac Center 1:00 - 2:00 p.m.	Kathy Mizer (402) 280-4626	6/5♦♦♦	Case Management Conference by Cardiac Center Faculty/Fellows Auditorium, The Cardiac Center 1:00 - 2:00 p.m.	Kathy Mizer (402) 280-4626
5/20♦♦♦	Internal Medicine Grand Rounds Debate: "Treatment of CAD (Pill) Medical Therapy" (W. Paul Biddle, MD) vs. "Balloon Catheter Intervention" (Tom Lanspa, MD) Moderator: Joseph Lynch, MD Seminar Room, Saint Joseph Hospital 12:00 Noon - 1:00 p.m.	Julie Nelson (402) 280-4392	6/6♦♦♦	ACC Teleconference Presented by American College Of Cardiology "Contemporary Arrhythmia Management" Auditorium, The Cardiac Center 10:00 a.m. - 2:30 p.m.	Kathy Mizer (402) 280-4626
5/20	Cardiac Rehabilitation Patients Class "Summer Exercise Guidelines" by Lisa Schroeder, MA Rehab Area, The Cardiac Center 8:30 a.m., 10:30 a.m., 1:50 p.m., and at 2:50 p.m.	Karen Hardy, RN (402) 280-4929	6/8	Journal Club by Aryan Mooss, MD Room 209, The Cardiac Center 6:00 - 8:00 p.m.	Kathy Mizer (402) 280-4626
5/21♦♦♦	EKG Conference by Jim Terakubo, MD Auditorium, The Cardiac Center 1:00 - 2:00 p.m.	Kathy Mizer (402) 280-4626	6/10	Cardiac Rehabilitation Patients Class "Understanding Your Target Heart Rate" by Teri Erickson, BS Rehab Area, The Cardiac Center 8:30 a.m., 10:30 a.m., 1:50 p.m., and at 2:50 p.m.	Karen Hardy, RN (402) 280-4929
5/22♦♦♦	Case Management Conference by Cardiac Faculty/Fellows Auditorium, The Cardiac Center 1:00 - 2:00 p.m.	Kathy Mizer (402) 280-4626	6/11♦♦♦	EKG Conference by Paul Biddle, MD Auditorium, The Cardiac Center 1:00 - 2:00 p.m.	Kathy Mizer (402) 280-4626
5/25	Journal Club by Aryan Mooss, MD Room 209, The Cardiac Center 6:00 - 8:00 p.m.	Kathy Mizer (402) 280-4626	6/12♦♦♦	Case Management Conference by Cardiac Center Faculty/Fellows Auditorium, The Cardiac Center 1:00 - 2:00 p.m.	Kathy Mizer (402) 280-4626
5/27♦♦♦	CU-UNMC Combined Echo Conference Auditorium, The Cardiac Center 7:00 - 8:00 a.m.	Kathy Mizer (402) 280-4626	6/15♦♦♦	Cardiology Grand Rounds tba by Raashid Ashraf, MD Auditorium, The Cardiac Center 1:00 - 2:00 p.m.	Kathy Mizer (402) 280-4626

♦♦♦CME category I one hour credit given

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Educational Opportunities

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Date	Title, etc.	Contact for Information
6/17	Cardiac Rehabilitation Patients Class "Free Radicals/Antioxidants" by Karen Beckman, RN, BSN Rehab Area, The Cardiac Center 8:30 a.m., 10:30 a.m., 1:50 p.m., and at 2:50 p.m.	Karen Hardy, RN (402) 280-4929
6/18♦♦♦	Echo Conference by Atul Chawla, MD Auditorium, The Cardiac Center 1:00 - 2:00 p.m.	Kathy Mizer (402) 280-4626
6/19♦♦♦	Case Management Conference by Cardiac Faculty/Fellows Auditorium, The Cardiac Center 1:00 - 2:00 p.m.	Kathy Mizer (402) 280-4626
6/22	Journal Club by Aryan Mooss, MD Room 209, The Cardiac Center 6:00 - 8:00 p.m.	Kathy Mizer (402) 280-4626
6/24	Cardiac Rehabilitation Patients Class "What Are Your Risk Factors??" by Martha Monnig, RN Rehab Area, The Cardiac Center 8:30 a.m., 10:30 a.m., 1:50 p.m., and at 2:50 p.m.	Karen Hardy, RN (402) 280-4929
6/25♦♦♦	CV Research Conference by Kieran Gangahar, MD Auditorium, The Cardiac Center 1:00 - 2:00 p.m.	Kathy Mizer (402) 280-4626

Date	Title, etc.	Contact for Information
6/26♦♦♦	Case Management Conference Cardiac Faculty/Fellows Auditorium, The Cardiac Center 1:00 - 2:00 p.m.	Kathy Mizer (402) 280-4626
6/29♦♦♦	Cardiology Grand Rounds "Phen Fen: One Year Later" by Antonio Reyes, MD Auditorium, The Cardiac Center 1:00 - 2:00 p.m.	Kathy Mizer (402) 280-4626

♦♦♦ CME category I one hour credit given
Contact hour credit hours have been applied for through SJH Nursing Administration, an accredited provider in continuing education in nursing by the ANCC Commission on Accreditation.



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