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Teenager Julie Nalls overcomes severe asthma

Spring/Summer 1988

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capsule

Spring/Summer 1988

Vol. 5, No. 2

In this issue:

Julie Nalls, on the cover, is a severe asthmatic who once went into cardiac arrest following an asthma attack. Her condition is now under control. With help from UTHC's pediatric pulmonary clinic, she can do just about anything, including winning a position with the highly competitive Texas Baptist All-State Choir. Her story begins on page 4.

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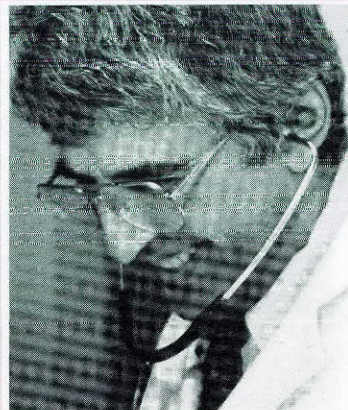
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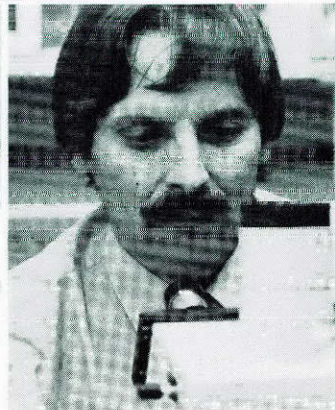
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page 6



page 8



page 9

CONTENTS

Looking for the Unknown

2

Biochemist Dr. Donald Blumenthal heads a research group searching for ways to prevent heart and skeletal muscles from malfunctioning.

Teenager Learns to Live with Severe Asthma

4

Although she has severe asthma, 16-year-old Julie Nalls of Carthage says her life isn't different than most East Texas teenagers.

Coping with Allergies

6

Exposure to an allergen by inhaling, ingesting or touching could produce a flood of symptoms. But there is help for swollen, watery eyes; sneezing; red, runny noses; and annoying post nasal drip.

Research Programs Continue to Grow

8

- The National Institutes of Health has awarded more than \$1 million for several biochemistry projects. Among the awards are two FIRSTs which recognize the talent of young investigators.

News and Gifts

9

Texas Chest Foundation
and Development Board Activities.

Program Transcends State Boundaries

13

New Mexico woman finds medical help in Tyler.

Medical Education

14

- The Family Practice Residency Program graduates its first class of physicians.
- Many physicians attend medical education's geriatric review course.

Newsbriefs

15

Appointments

18

Published Research

19

The University of Texas Health Center at Tyler is the state referral hospital and research center for cardiopulmonary diseases. It is accredited by the Joint Commission for Health Care Organizations and is a member of the American Hospital Association and the Texas Hospital Association.

Looking for the Unknown...

By Carol Hare

Every beat of your heart, every intake of breath, every movement of blood depends on muscles contracting and relaxing. Whether awake or asleep, your body pumps life through your system. But how do these functions work? What can we do to prevent them from malfunctioning or even stopping altogether.

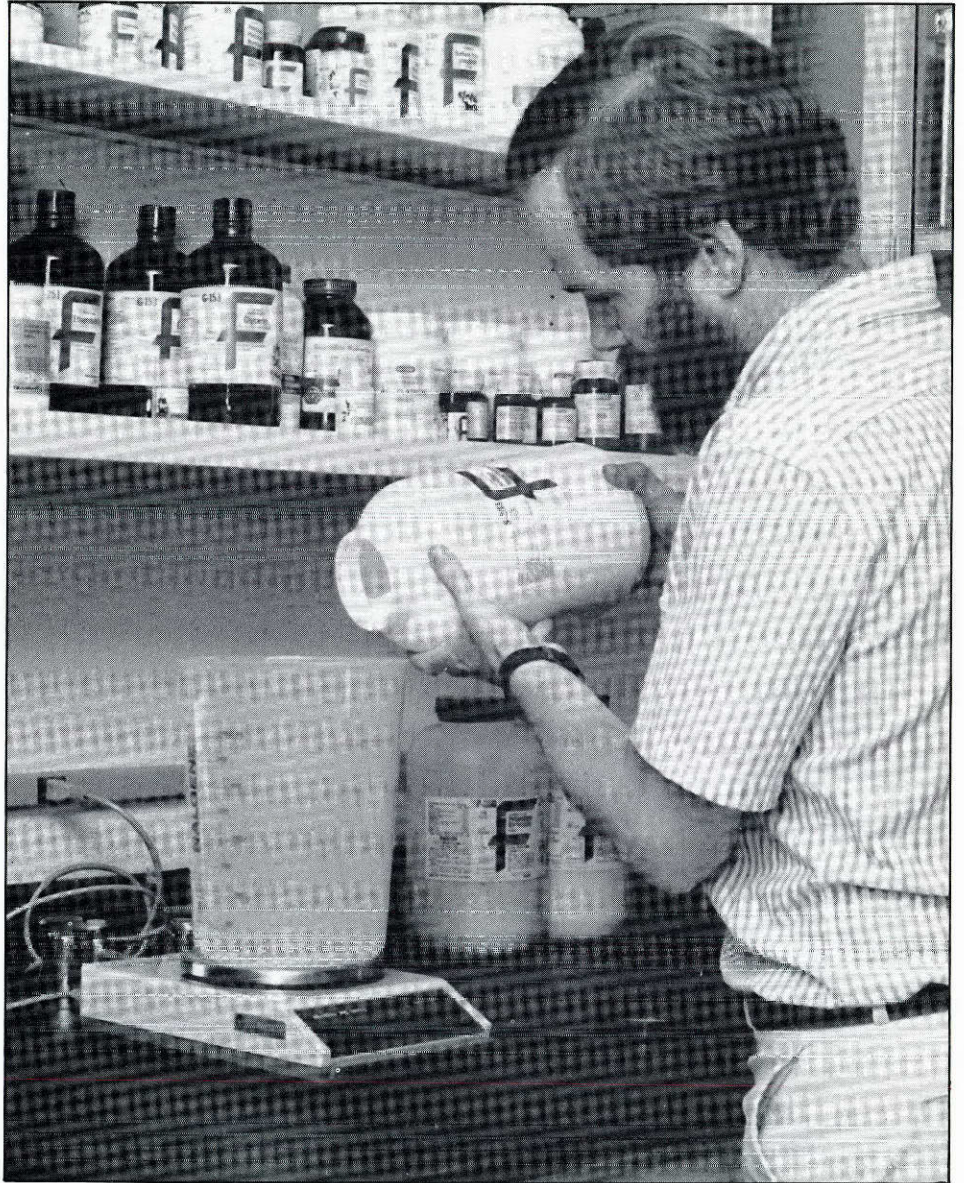
"We have to understand these body functions at the molecular level in order to help identify or design more effective drug therapies to interact with these processes when they don't operate normally," says Dr. Donald Blumenthal, assistant professor of biochemistry at the University of Texas Health Center at Tyler.

Blumenthal's work centers around the biochemical makeup of muscle cells. He heads a group studying reactions regulated by calcium and specific proteins in the cells that in combination with calcium, help muscles contract.

"We are focusing on a protein called calmodulin and its effects on heart and skeletal muscles," he explained. "However, the information we gain will apply to a broad spectrum of tissues throughout the body."

Calcium and calmodulin regulate enzymes such as the ones responsible for controlling glycogen metabolism. Glycogen (the principle carbohydrate or sugar storage material in the body) provides fuel for muscle function. For example, marathon runners try to build up glycogen stored in their muscles before a race by taking in a lot of carbohydrates. Any interference in calcium/calmodulin interactions can affect the intake of glycogen and its use by the muscles.

Calcium and calmodulin are also



Biochemist Dr. Donald Blumenthal in research laboratory

critical factors in smooth muscle function and diseases involving smooth muscles such as hypertension (high blood pressure) and asthma.

Blumenthal's work is one of the many building blocks involved in understanding how these muscles work. As a result, he has received grants from the National Institutes of Health, the Muscular Dystrophy

Association and the Texas Affiliate of the American Heart Association. He received the AHA's 1986 Lyndon B. Johnson Research Award for the most outstanding research proposal submitted to its Texas Affiliate, which was funded.

"Scientists don't really understand, on a molecular basis, what happens when calmodulin interacts with the enzymes we're studying,"

Blumenthal said. "So NIH, the heart association and MDA fund a lot of basic research to help understand muscle biochemistry."

These agencies are interested in the long-term potential that this type of research has in developing new disease treatments and overcoming muscle disorders.

"We are focusing on a protein called calmodulin and its effects on heart and skeletal muscles."

*Dr. Donald Blumenthal,
Assistant Professor of Biochemistry*

The molecules Blumenthal studies are so small that they can be observed only with very sophisticated equipment. One of the valuable instruments in his laboratory at the health center synthesizes peptides. Peptides are molecules that can be used as substitutes for the areas of an enzyme that bind calmodulin to the enzyme.

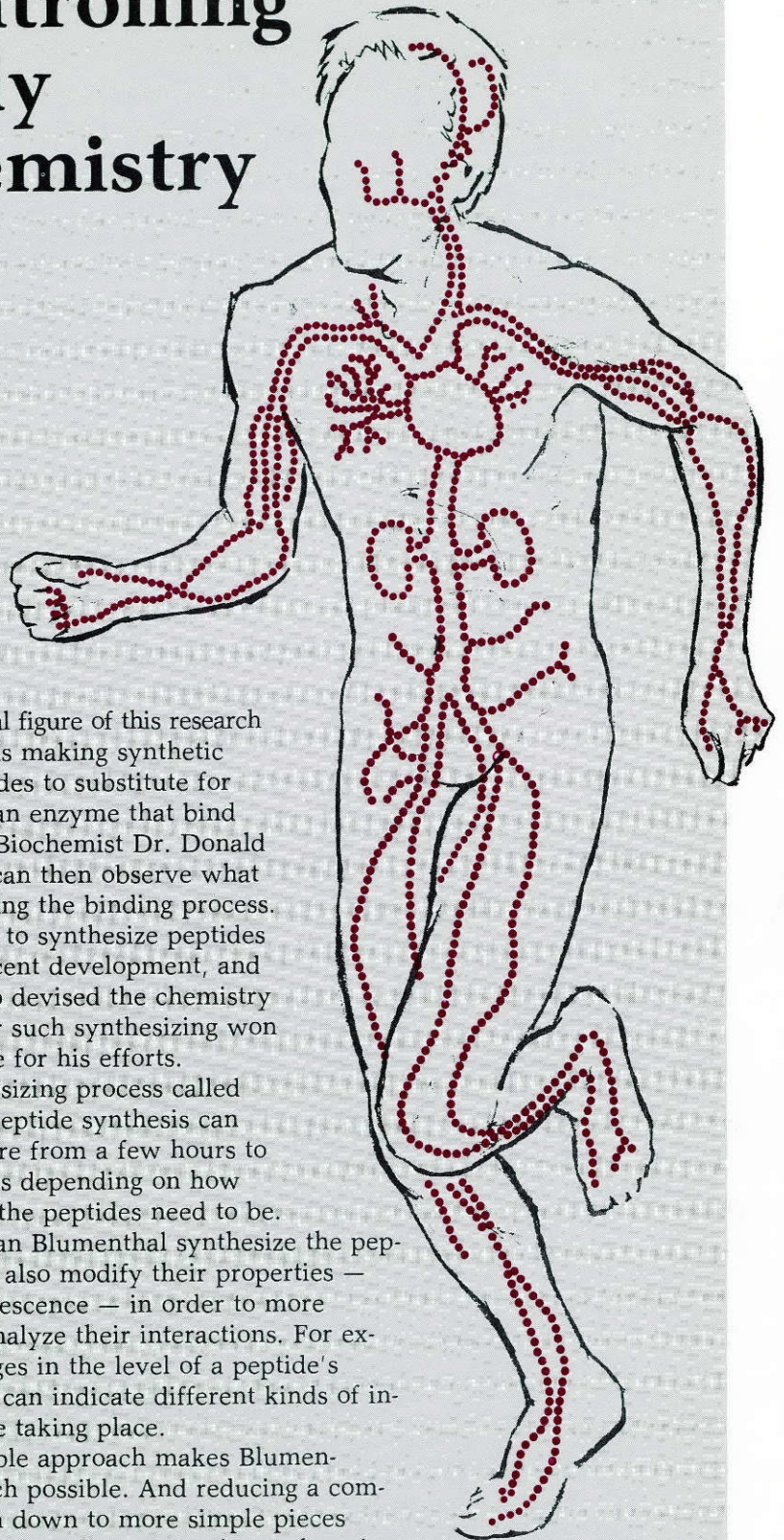
"With this synthetic material, we have control over one aspect of the overall interaction, which helps us understand the effects of calcium and calmodulin," he said.

Blumenthal has been invited to present his research at international meetings sponsored by NIH, the Federation of American Societies of Experimental Biology and the Biophysical Society.

National recognition is important not only to support his work but as an indication of the research excellence at the health center, Blumenthal said.

Such basic research is the least expensive part in the cycle of developing new drugs and cures for diseases, but it is critical in supporting this development. The end result will be improved therapies and preventive techniques in the fight to conquer disabling disorders like the muscle dystrophies, heart disease and asthma.

Controlling Body Chemistry



A central figure of this research entails making synthetic peptides to substitute for the areas of an enzyme that bind calmodulin. Biochemist Dr. Donald Blumenthal can then observe what happens during the binding process.

The ability to synthesize peptides is a fairly recent development, and the man who devised the chemistry necessary for such synthesizing won a Noble prize for his efforts.

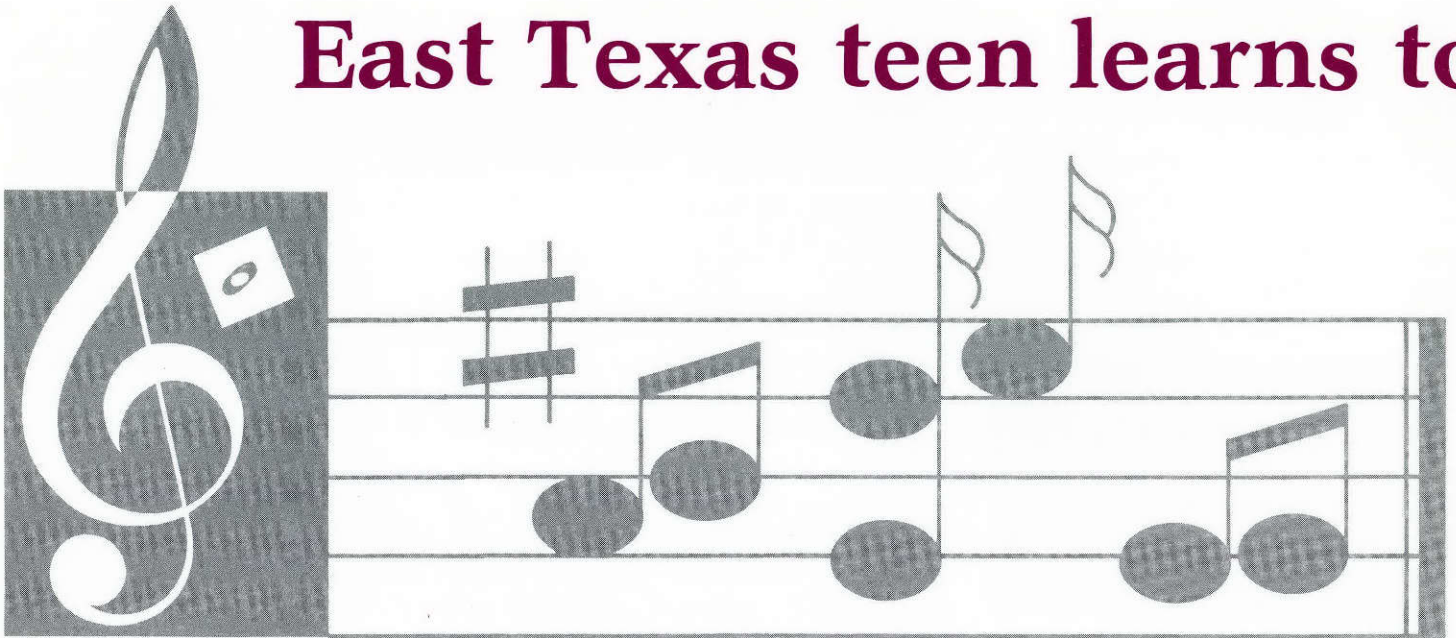
The synthesizing process called solid-phase peptide synthesis can take anywhere from a few hours to several weeks depending on how complicated the peptides need to be.

Not only can Blumenthal synthesize the peptides, he can also modify their properties — such as fluorescence — in order to more effectively analyze their interactions. For example, changes in the level of a peptide's fluorescence can indicate different kinds of interactions are taking place.

This valuable approach makes Blumenthal's research possible. And reducing a complex problem down to more simple pieces makes such a complicated puzzle much easier to handle.

—Carol Hare

East Texas teen learns to



Any mother would have been proud, and Ruby Nalls beamed and clapped and laughed and cried when her daughter, Julie, sung an award-winning performance which placed her in the Texas Baptist All-State Choir. That Julie competed with 845 other young people and won one of 225 positions in the choir certainly spoke for all the hard hours of practice, the voice lessons, the sacrificing of other activities. But to the Nalls it was more — it was something approaching a miracle.

Friends, neighbors and classmates congratulated 16-year old Julie on her accomplishment, saying things like, "And just think where you were just a year ago..."

A year earlier Julie was being rushed to the local Carthage hospital gasping for breath. She was in the midst of a life-threatening asthma attack.

As a consequence of that attack, Dr. Daniel Suez, the allergist and immunologist at the University of Texas Health Center at Tyler, who directs Julie's treatment plan, said he classified her a severe high risk asthmatic. That she can even sing — soprano, no less — is amazing.

"Julie is exemplary of an asthmatic under good control," Suez said in Julie's presence during her recent visit to the health center's pediatric allergy clinic. He made it a

point to let everyone within ear shot know that she was a "prize" patient and that he shared her parents' pride in her accomplishments.

Having been diagnosed with asthma at age 9 months, Julie joined the almost 10 percent of U.S. children afflicted with the disease. As is characteristic of all asthmatics, Julie's respiratory system reacts abnormally to triggers, resulting in the characteristic symptoms of wheezing or whistling breathing sounds, coughing, shortness of breath, and chest congestion or tightness. Some triggers are allergens and activate an abnormal immunological response in the body which, if severe enough, can cause shock and death.

"I have environmental asthma, which means just about anything in the environment can set off an asthma attack. I'm allergic to pollens, trees, grasses, weeds, dust, molds and some foods," Julie said.

"Julie's mother, also an asthmatic, recognized the early signs of the disease and sought treatment for her child. According to Suez, the UTHC assistant professor of pulmonary pediatrics and assistant professor of immunology, any child with chronic chest congestion and coughing, particularly coughing at night or after exercise, should be evaluated for asthma by a pediatrician or family physician.

"I would like to see such children

evaluated for allergic components and see how much allergy is contributing to their disease," Suez said. "Asthma shouldn't be treated with over-the-counter medications. People still die from asthma; it should be taken seriously."

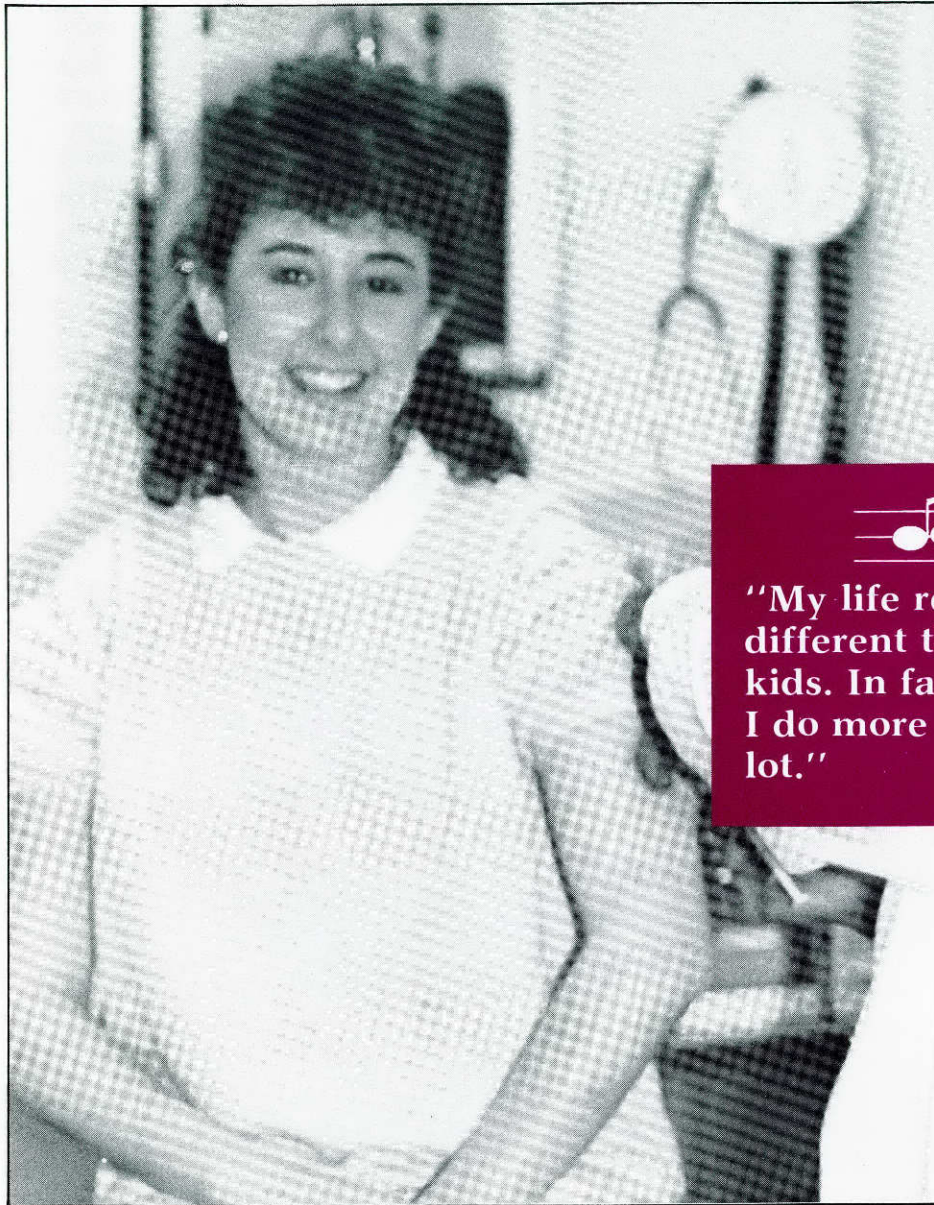
"In pediatric cases, we know that up to 80 percent of asthmatic patients have proven allergic backgrounds or the allergic potentially to develop asthma through allergic triggers," said Suez. In adults the allergic component of asthma drops to about 40 percent, with asthma attacks being triggered more by infections, exercise or factors not proven associated with allergy.

Although skin and blood tests are performed to detect allergies, there is no test to predict the potential severity of a patient's asthma, he added. Only "after the fact," that is after experiencing a severe attack, can doctors classify a patient a "severe asthmatic."

Julie earned that classification last winter, when after three "bad episodes," she experienced an attack so severe that on the way to the local hospital she collapsed in respiratory, then cardiac arrest.

Following this episode, it was decided to send her to Denver's National Jewish Center for Immunology and Respiratory Medicine where Dr. Suez had

live with severe asthma



"My life really isn't different than other kids. In fact, I think I do more than a lot."

—Julie Nalls

worked and done research under a pediatric fellowship from 1983 until coming to Tyler two years ago. Julie stayed in Denver, without her family, for three and one-half months.

"The doctors and staff worked with me to find the right combination of drugs, breathing exercises, rest and physical exercise," Julie said. "Since I lived there — went to school and did everyday things — they could constantly observe me and see what caused problems and what helped."

Suez said that Julie's treatment

plan is aimed at keeping her airways open and inflammation reduced, so bronchodilators are first-line medications along with anti-inflammatory drugs. Since she has a highly allergic component to her asthma, Julie also takes specific anti-allergic drugs and weekly allergy shots to desensitize her immune system. Avoiding allergens whenever possible, Julie restricts her pets to stuffed cats, and Mrs. Nalls cleans their house thoroughly every month so that household dust is kept to a minimum.

Exercise often triggers asthma, but Julie has learned that close compliance to her medication regime, along with controlling her activity level and her breathing, means she can do just about anything.

"My life really isn't different than other kids. In fact, I think I do more than a lot. I've never let my asthma get me down," she said.

A member of the Carthage High School's marching band, Julie plays keyboard, swims and does aerobics. She's participated in UTHC's Texas

Asthma Camp for kids the past two summers, working as a junior counselor.

"I'm a responsible asthmatic, so I can be a role model for the younger kids," Julie said. "I want them to see that having asthma doesn't mean you

can't do whatever you want to — you just have to learn to live with asthma."

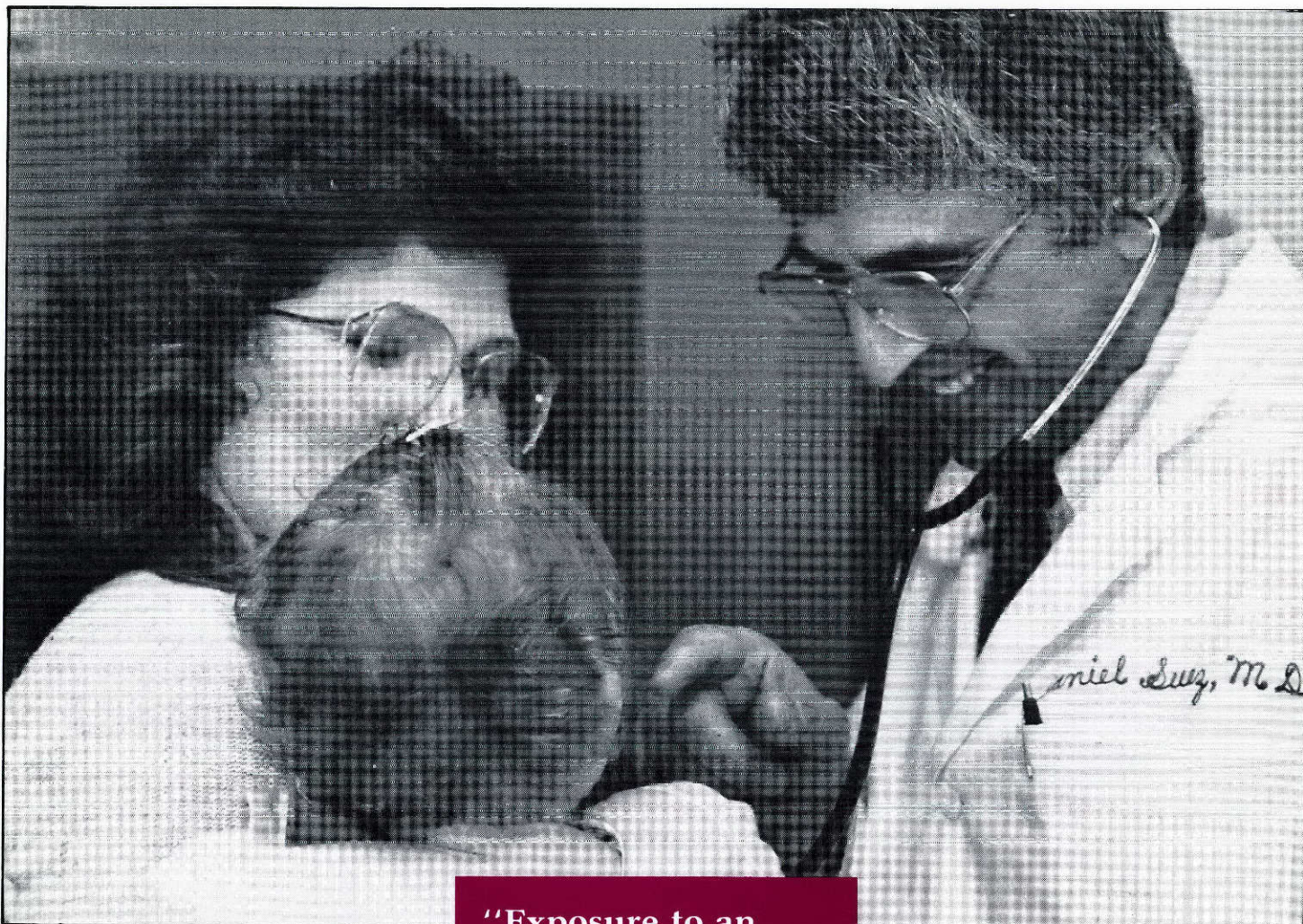
Putting her philosophy into practice, Julie began taking voice lessons within months of her severe asthma attack. "I practice diaphragmatic breathing, use my inhaler and back off if I have to, but I always try again," said the pert dark-haired teenager.

This summer when Julie travels with the choir to Washington, D.C. to perform, she'll be putting her lifestyle to the test — for the first time away from family and familiar physicians. But she won't go unprepared.

"I plan on taking my American Express card," she said, laughing, then explaining that she never leaves home without her instructions from UTHC. "Just in case I have an asthma attack, any emergency room doctor can treat me the same way I'd be treated here."

Now that it's warm, many must cope with allergies

By Patricia Whitmoyer



“Exposure to an allergen initiates the specific-antigen-to-specific antibody reaction, resembling a lock and key match.”

Ah! The weather has warmed up, and it's time to open the windows and enjoy the blooming of an East Texas spring. Or is it?

Achoo! Aaaaaachoo!

If you are one of thousands of East Texans bothered by hay fever allergy, spring may mean itchy, swollen, watery eyes, a red, runny nose, sneezing and annoying post-nasal drip that keeps you coughing at night and hoarse during the day.

In most people's minds hay fever is probably more closely associated with allergy than any other phenomena, but it's hardly the only

manifestation of the immune system's overzealous efforts to attack foreigners.

An abnormal response of the immune system triggers an antigen-antibody reaction which releases powerful chemicals. In turn, these chemicals, one of which is histamine, produces the symptoms.

“The classic allergic reaction involves the IgE system, which triggers the patient's mast cells, or allergy cells, to burst and release substances into the skin, the air passages or the gut,” said Dr. Daniel Suez, assistant professor of pulmonary pediatrics and assistant professor of immunology at the University of Texas Health Center at Tyler.

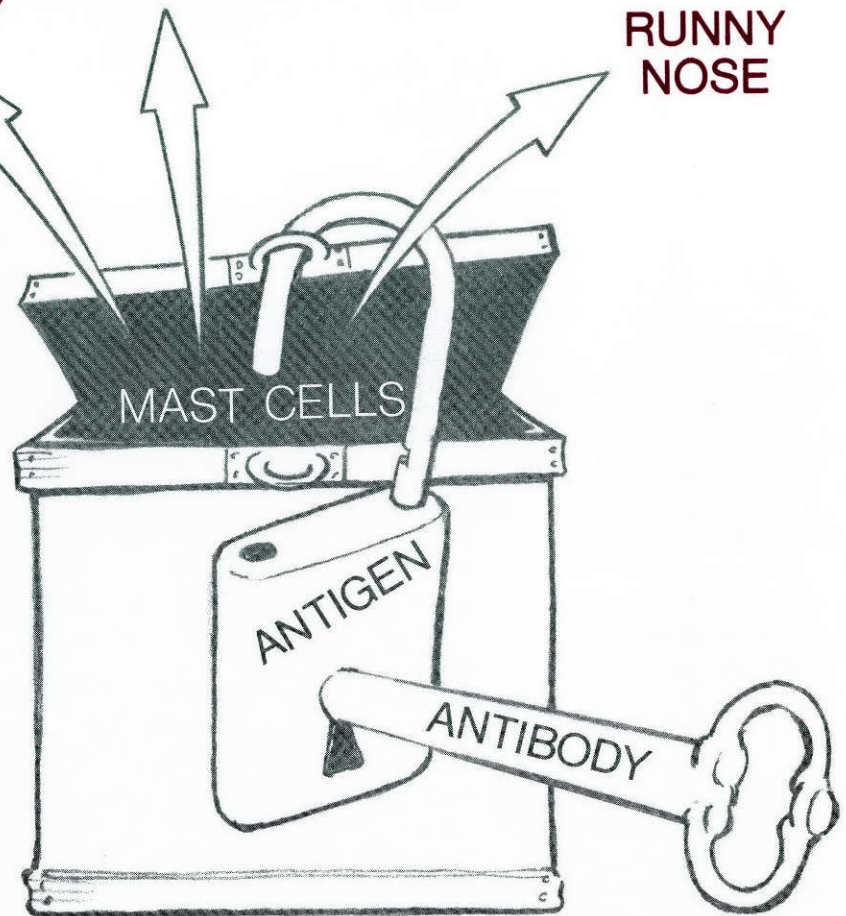
He explained that IgE, which stands for the immunoglobulin E molecules, are defensively protein antibodies on the mast cells.

“Everyone has mast cells, but allergic individuals have far greater

**WATERY, ITCHY
EYES**

SNEEZING

**RUNNY
NOSE**



concentrations of them, in addition to much higher levels of IgE immunoglobulins," he said.

Exposure to an allergen — by inhaling, ingesting or touching — initiates the specific-antigen-to-specific-antibody reaction. Resembling a lock and key match, the antigen-antibody hookup opens the mast cell door and allows a flood of symptom producing chemicals out, Suez said.

Physicians use skin scratch tests and blood tests which measure the level of allergy-related antibodies to determine if a patient's symptoms are truly allergy induced.

Suez said he routinely performs up to 40 tests — 25 for inhaled allergens and 12 to 15 for food allergens. But a patient's medical history often gives clues if an unusual allergen should be added to the testing.

However, no test exists that will tell the physician which patients will have extreme allergic reactions.

Several factors may determine the type and severity of the antigen-antibody reaction: (1) the quantity of a particular allergen entering the body within a certain time frame; (2) the kind of attack the immune system has been set up to launch; (3) how sensitive the individual is to the allergen; (4) the presence of an infection or inflammation in conjunction with exposure to an allergen; and (5) the weather.

People with uncomplicated allergies like mild or temporary hay fever symptoms often treat themselves with over-the-counter antihistamines.

"When the time comes that a child or an adult is significantly bothered by the disease — and I mean missing days of school or work — and is experiencing significant side effects like dry mouth and drowsiness from over-the-counter medicines, a pediatrician or family

physician should be consulted," Suez said.

Antihistamines and other medications can be prescribed to control symptoms without troublesome side effects inherent with over-the-counter drugs, he said.

"When the patient is sensitive to only one allergen, it might be difficult to identify it but easy to manage," Suez said. "But in the case of multiple allergies, it will be difficult to manage because if I can identify five or 10 allergens, there are probably more unidentified."

Skin and blood tests, or trial and error elimination based on the patient's history, may target the offender and assist the physician in determining the treatment. Avoiding the offender is the first choice and works well when the allergen is a particular food or animal dander.

But environmental allergens, such as pollens, molds and household dust, can't be avoided altogether. If the allergy is severe, desensitizing the patient's immune system with very low doses of the allergen (allergy shots) can gradually build up the patient's tolerance to the allergen.

Steroids may be administered topically, by inhalation or systemically by oral or injectable forms of medication to control inflammation.

"With an allergy, such as allergic asthma, it's important to control inflammation," Suez said. "Exposing inflamed air passages to an allergen is like rubbing salt on broken skin. As long as the skin is intact, it's protected from the insult, but if it's scraped and inflamed, then the salt is going to worsen the condition."

Tyler Research Projects Receive Federal Funding

NIH Awards \$1 Million, Special FIRST Honors

The National Institutes of Health has awarded the University of Texas Health Center more than \$1 million this year to fund several research projects in biochemistry. Among the allocations are two FIRST awards which recognize the talent of young researchers.

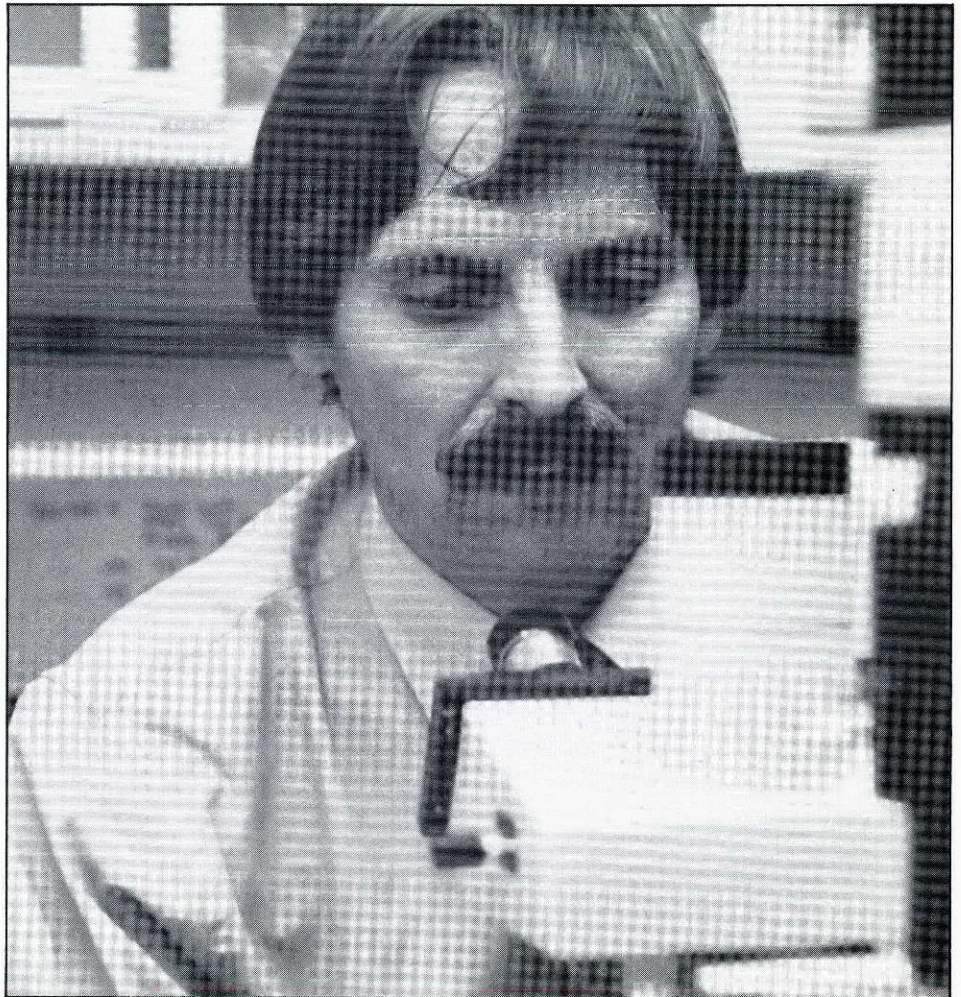
With a five-year \$527,547 study from NIH's Heart, Lung and Blood Institutes, Dr. Richard Painter, chairman of the biochemistry department, and Dr. Alice R. Johnson, also a biochemist, are studying the role certain cells called fibroblasts have in scar tissue in lung disease, such as emphysema.

"These studies are significant because scarring within the lung ultimately leads to deterioration of lung function," Painter said. "By understanding the changes that may be causing these abnormal cellular responses, it is hoped that better methods of preventing or reversing such changes may be developed," he added.

Biochemists Dr. Martha Aiken and Dr. Donald Blumenthal were both given FIRST (first independent research support and transition) awards designed to recognize the talents of the young scientists who are newly involved in competitive research.

Aiken is the principal investigator of a \$336,000 grant from NIH's National Institute of General Medicine for the study of blood clot formation which may lead to improved treatment that will help prevent strokes and heart attacks.

Aiken is specifically studying the interactions of thrombospondin — a protein molecule normally found in platelet blood cells — with a number of other cells, including



Biochemistry Chairman Dr. Richard Painter

those that line blood vessels.

"Upon vascular injury, thrombospondin is released from platelet blood cells. These interactions with different cells are believed to be important for bleeding cessation by forming blood clots," Aiken said.

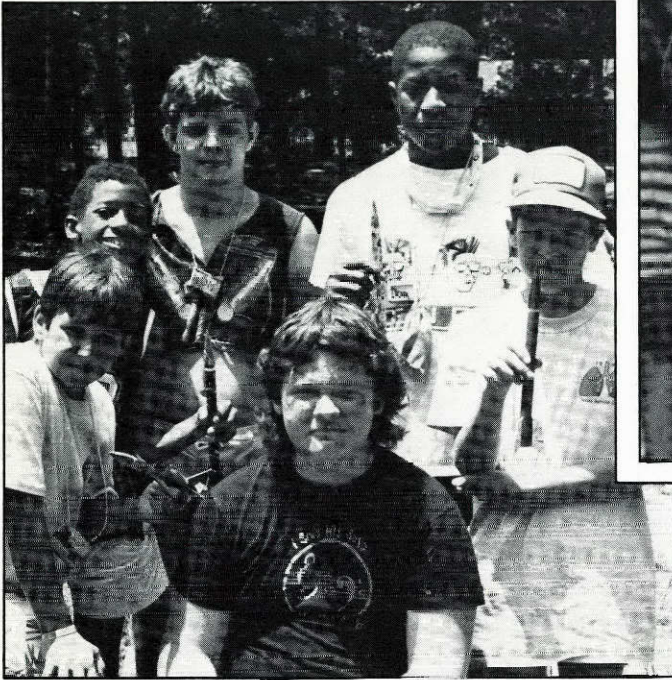
Blumenthal, with a \$300,000 grant, is studying molecular interactions of a protein called calmodulin and its effect on heart and skeletal muscles.

The purpose of the research is to gain information about calmodulin-

dependent enzymes in hopes of developing medications that could be used to treat hypertension and asthma.

The health center has received more than \$2 million in research funding from outside agencies such as NIH for the past two years. The facility is the East Texas region's only basic research center. It helps support the health center's role as the state referral center for cardio-pulmonary diseases.

Texas Chest Foundation & UTHC Development Board



Learning is Fun at Asthma Camp

Sixty-nine youngsters attending the UT Health Center's fourth annual Texas Asthma Camp enjoyed summer outdoor activities while learning to cope with their asthmatic condition.

Held June 19-24 at Camp Tyler, boys and girls ages 7-14 participated in camping, swimming, canoeing, rifle shooting, various games, and arts and crafts during the week-long outing.

"It's an excellent camp," observed Cinda Davis, lung health program administrator for the American Lung Association of Texas who was a special guest. "I'm here to observe and see how these kinds of activities

fit into the association's support program." She said the only other asthma camp in Texas is one supported by ALA's Dallas chapter.

The Tyler camp, sponsored by Texas Chest Foundation and conducted by the health center's pediatric pulmonary department with the help of many volunteers, this year attracted youngsters from Dallas, Houston, Austin and San Antonio as well as many East Texas communities.

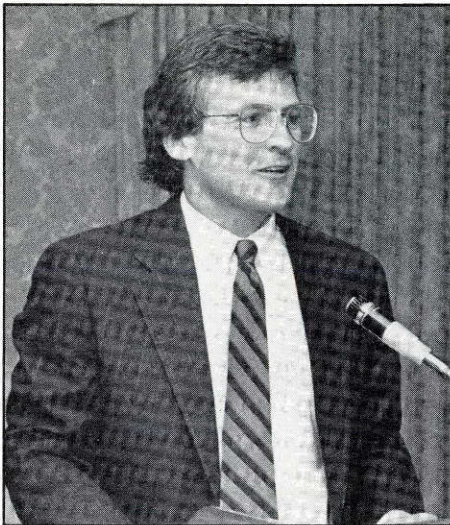
Medical assistance, directed by Dr. Michael R. Green who organized the camp in 1985, is available around the clock. The campers also are instructed on how to handle

their asthmatic condition.

"Being able to participate in these activities all week gives them self esteem and better physical health," said camp director Judy Johnston, a nurse at the health center. "They almost wear us (adult and junior counselors) out by the end of the week, but it's worth it to see them so active."

Assisting in the program are junior counselors who are former asthma campers themselves, respiratory therapy students from Tyler Junior College, faculty from UT Tyler and health center staff volunteers.

Texas Chest Foundation



Michael Allen speaks on estate planning

Women's seminar held on finances

The Director's Associates hosted the UT Health Center's first financial planning seminar May 26 at Willow Brook Country Club.

Entitled "From a Woman's Point of View," the information was enthusiastically received by more than 40 Director's Associates members and guests.

A panel of guests presented information vital to estate planning, tax opportunities and the benefits of charitable giving for both families and individuals.

Participants indicated the information was very helpful. A note from one participant said, "I really enjoyed the financial planning seminar, learned a great deal of information, and am looking forward to more programs in the future.

Among those making presentations to the group were Michael D. Allen, a board certified estate planner and attorney with Bain, Files, Allen, Caldwell and Worthen in Tyler; Richard W. Jett Jr., a certified public accountant with Henry and Peters, PC in Tyler; and Chris Woldert, a certified life underwriter with Shearson Lehman Hutton in Tyler.

Benefit golf event scheduled October 3

The fourth annual Texas Chest Foundation golf tournament is scheduled Monday, October 3, at Tyler's Hollytree Country Club, announced tournament chairman Larry Hickman.

The six-member team event is being moved from late summer to early fall and changing from a scramble to a low-ball format, he said. The entry fee remains \$80 per player.

Funds raised from the event go for the support of patient care, research and education missions at the health center.

Anyone wanting to organize a team or play on a team should contact Bubba Ferrell at 877-7720.

Director's Associates program off to good start

The Director's Associates, UT Health Center's Annual Gift Club, has surpassed all initial expectations and now has over 70 charter members. The program, which has a \$500 per year membership fee, was launched in December 1987 at the urging of several members of the Development Board.

Since the inception of the program, it has achieved a high level of recognition and success. Charter members have come from throughout East Texas and the region and without exception have encouraged others to join the gift club. A reception in Gilmer, hosted by Gladys and C. H. Robinson, resulted in three new members from the Gilmer area.

A reception at Willow Brook Country Club, hosted by members of the Director's Associates, netted six new members. "I am very pleased with the results we have made, and see them as a testimonial to the great work being done at the health

center," said director, Dr. George A. Hurst.

"The Director's Associates annual dues provide an unrestricted source of funds which we are finding invaluable in assisting the special needs of our medical care, education and research areas," Hurst said.

Charter members will be accepted through the end of 1988 and will be appropriately recognized. For more information on how you can become a charter member, please contact the Office of Development, (214) 877-7733.

Various gift-giving plans available

The University of Texas Health Center offers a variety of gift-giving plans to accommodate individuals interested in supporting the hospital's mission of patient care, medical education and research.

A Living Gift may be made to honor the memory of a loved one, friend or business associate; to cheer and speed the recovery of one who is ill; or to honor the birth of a baby, an anniversary, a birthday or other significant occasion for a relative or friend, says development director John Anderson.

"Many use a Living Gift to memorialize permanently the name of a cherished one by dedicating a room, or its furnishings, a piece of equipment or some department in the health center with a plaque," Anderson said.

To assist individuals in making a loving tribute, the Office of Development offers a gift coupon book with remittance forms for the donor's convenience. The coupon book also enables the donor to keep a record of the gift.

For more information about the available gift-giving plans, contact the Office of Development at (214) 877-7733.

& UTHC Development Board



Mary and Ralph Prince

Princes Show Gratitude for Medical Help Received

Ralph Prince of Glade-water exercises for an hour three days a week at the UT Health Center and says he feels terrific after each session.

Only a few months ago when he was first brought to the health center unconscious, doctors said he had viral pneumonia. He remained unconscious two weeks and his prognosis for recovery was poor.

"If I had been able to talk at the time they brought me in, I would have told them I was going to be all right," he said.

"My doctor, Dr. Richard

Kronenberg, told my wife I was tougher than I looked."

Yet, he rebounded. Following discharge from the hospital, he began an exercise program at the health center to help him breathe better and enjoy his hobby as a farmer. Prince is a retired attorney who served as Gregg County district attorney for 20 years.

In gratitude for the treatment he received at the Tyler facility, Ralph and Mary Prince became the first health center donors to provide a \$10,000 living trust for the institution to use at its discretion.

Funded by income-earning assets, the trust provides that at the end of the 10-year period the assets will revert to a named beneficiary other than the health center.

"By creating such a trust, the Princes have made a generous contribution to the health center, shifted income producing assets out of their estate for tax purposes and provided a wonderful tax-free gift to a family member," said John Anderson, director of development at the health center.

Texas Chest Foundation & UTHC Development Board

Memorial Gifts

In memory of Etta Ann Brooks—
The Rev. and Mrs. Jester White
In memory of Carolyn Rose Phillips Clay—
Dr. and Mrs. George A. Hurst
In memory of Glenn H. Flinn—
Isadore Roosth & Associates
In memory of Mrs. Frances Ferguson—
D.H. Walkup
In memory of Aleck S. Genecov—
Employees of Roosth and
Genecov Production Co.
In memory of Robert Gilmore—
Isadore Roosth & Associates
In memory of Maedelle Hartley—
Mr. and Mrs. Michael D. Gollob
In memory of William Robert Hamm—
Mr. and Mrs. David Turman
In memory of Ira Hildebrand—
Mr. and Mrs. E. H. Broadnax
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Betty Baird
In memory of Mrs. Eli Taylor—
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In memory of Bess Thompson—
Isadore Roosth & Associates
In memory of Jerry Williams—
Gollob, Morgan, Peddy and Co.

Honor Gifts

In honor of Isadore Roosth—
The Rudman Foundation
The American Cancer Society
Cattle Barons Gala

Foundation Gifts

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Mrs. Ben Bridges, Henry H. Bryant, Allen
M. Burt, Mrs. Robert Chartier, Dr. P.
LeMon Clark III, Dr. Allen B. Cohen, Dr.
Charles Cole, Dr. George Crisp, Mr. and
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Dr. and Mrs. George A. Hurst, Winnie
Johnson, Dr. R. S. Kronenberg, Dan Kuck,
Russell Lawrence, Mr. and Mrs. Harold
McKenzie, Vida Melton, Marcus and
Diana Neal, Darla Perry, Jack L. Phillips
and Harry Phillips, Dr. Blanche G. Pre-
jean, Tom B. Ramey Jr., Edwin Rasco,
Lynda Riley, Isadore Roosth, Dr. C. Fagg
Sanford, Mary John and Ralph Spence,
Elwood Stetson, Debbie Waldrop, John A.
Warner, Ken Whitt, Melva Winters, Royce
E. Wisenbaker and James C. Wynne Jr.

Footnote:

UT Health Center Development Fund gifts are reported separately in *Developments*, a newsletter published semi-annually. Gifts reported here are contributions to Texas Chest Foundation only.

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Rubye and Carl Scott of Socorra, N.M.

New Mexico Woman Learns to Breathe During 2-Week Visit

Many Tyler visitors come to see the roses or the azaleas, but Rubye and Carl Scott of Socorra, N.M., came all the way from New Mexico in their recreational vehicle so she could learn how to breathe.

Soon after purchasing their recreational vehicle and mapping out retirement trips across America, Mrs. Scott became increasingly concerned about her frequent episodes of wheezing and debilitating coughing which left her physically exhausted.

A visit to her doctor resulted in a diagnosis of asthma and bronchitis. The doctor also recommended a pulmonary rehabilitation program to improve her strength and to enable her to continue her daily activities.

Unfortunately, the Scotts could not find a pulmonary rehabilitation program in New Mexico. Through an in-law who had relatives in Tyler, they learned about the pulmonary rehabilitation program at the UT Health Center.

In April, they packed their van

and came to the East Texas piney woods for a two-week stay at the health center.

With all the comforts of home in their RV, the Scotts camped on the health center's grounds daily while she participated in the rehabilitation program.

"Chronic obstructive pulmonary disease ranks second only to cardiovascular disease in the number of people who become disabled," according to Pat Smith, nurse coordinator of UTHC's rehabilitation program which is beginning to attract patients from throughout Texas and the neighboring states of Oklahoma, Louisiana and New Mexico.

After a physical examination by UTHC pulmonologist Dr. P. LeMon Clark III and receiving other laboratory and X-ray tests, the 62-year-old Mrs. Scott was interviewed by an interdisciplinary team of specialists to assess her motivation and exercise capabilities.

"I had been breathing incorrectly all my life," Mrs. Scott said.

"I learned that while exerting myself in any way — for example, sitting down or getting up — I should breathe out, expelling air from my lungs each time. The exercise program improved the strength in my diaphragm," she added.

"I'm going to take better care of myself. Through these battery of tests, I know my immune system is weak and that I have to take care to avoid colds and viruses," she said.

The UT Health Center also offers a free one-day pulmonary education program for those diagnosed with pulmonary diseases and who can't spend two weeks in the program.

"Research has shown that patients need the support of family, friends and trained medical personnel to deal with their pulmonary conditions," Smith said.

"We believe we have improved the daily activities of many patients once they know how to live with their conditions."

—Rita Nute

Medical Education

First Class of Family Practice Physicians Graduates

The University of Texas Health Center this spring graduated its first class of physicians in the Family Practice Residency Program which opened in 1985 as the region's first post-graduate education program.

After three years of additional medical training in internal medicine, cardiology, pediatrics and other specialty areas, five physicians — two females and three males — are now eligible to take the American Board of Family Practice's certification examination.

The five graduating physicians and the medical schools where they received their M.D. degrees are:

Dr. Wheirda (Lafaye) Bentley, University of Arkansas School of Medicine at Pine Bluff; Dr. Andrew Davis, Texas Tech University; Dr. Julia Hwang, University of Kansas

Medical School at Kansas City; Dr. Tony Keeble and Dr. Gary Vollenweider, both UT Southwestern Medical Center at Dallas.

"As the first post-graduate medical training program in East Texas, the opportunities for the health center's program were rich and challenging," said Dr. James Crutcher, chairman of UTHC's Department of Family Medicine.

He said the East Texas area medical community has given the program its full support. The physicians receive additional training at Tyler's Medical Center Hospital and Mother Frances Hospital.

Family medicine provides primary health care for a full range of medical problems for men, women and children of all ages, Crutcher said.

A vital part of the family

medicine's health care program is preventive medicine or detecting problems before symptoms develop, he said.

To begin the residency program, the health center had to recruit six medical residents from more than 100 applicants. The health center, acting as a parent training facility, also had to provide a Family Practice Center where the residents could receive additional training in addition to rotations at the other two Tyler hospitals.

As the program grew it began operating additional clinics in Tyler and Gilmer last fall for the treatment of needy patients. The clinics were funded by a Texas Department of Health grant.

"This primary care program has been overwhelmingly successful and reflects our commitment to community medicine," Crutcher said.

Of the remaining eight residents, three will be in their third year this summer, and five will enter their second year. Five new residents have recently been recruited and will begin their training July 1.

Geriatric Review Prepares Doctors for Examination

By 1990, it is estimated that senior citizens age 65 and older will represent almost 12 percent of the total American population. Therefore, physicians will experience a significant increase in the number of elderly patients in their practices.

Because of the projected increase in the geriatrics population and the growing need for more specialized care for this age group, geriatrics medicine is being increasingly recognized as a new medical specialty.

To properly prepare physicians for this growing medical specialty, the American Board of Family Practice and American Board of Internal Medicine co-sponsored a geriatrics board review course throughout the nation. An estimated 3,000 physicians nationwide took the

examination.

And to help area physicians prepare for this examination, the UT Health Center sponsored a geriatric board review course this spring, with more than 75 physicians from Texas and neighboring states attending.

The review course involved two and a half days of intensive review of subjects covered on the examination, said Dr. Wilbur G. Avery, associate director for medical education at the UT Health Center. Avery was the course director and planner.

Among many topics reviewed during the course were ischemic heart disease in the elderly, management of chronic congestive heart failure, prevention of strokes, urology problems, as well as psychological problems and diabetes.

"As people age, they experience

physical, psychological and social changes," Avery said.

"They may become less sensitive to pain and often more tolerant to discomfort because they associate these problems with aging," Avery said.

In addition, seniors may not relate the classic symptoms of disease processes, and physical findings are often different in the elderly as compared to young individuals.

The 25 members of the faculty for the review course included specialists from the UT Health Center, as well as medical schools from Texas, Indiana and Massachusetts. The course consultant was Dr. Seymour Eisenberg, director of gerontology for the UT Southwestern Medical School at Dallas.

Cohen elected president of state thoracic society

Dr. Allen B. Cohen, executive associate director of the UT Health Center, was elected president of the Texas Thoracic Society.

A nationally recognized authority in pulmonary disease research, Cohen is on the program committee of the American Thoracic Society. He also is on the editorial committees of the *Journal of Clinical Investigation* and the *American Review of Respiratory Diseases* as well as a reviewer for several other scholarly journals.

He has received numerous research grants from the National Institutes of Health and has written or is co-author of more than 70 research papers and abstracts.

Researcher appointed to national committee

Dr. Ronald Dodson, associate director for research at the UT Health Center, was elected to the National Asbestos Council board of directors at its meeting in Atlanta, Ga.

He was one of four directors elected to a three-year term. The council is composed of 3,000 members who represent diverse interests ranging from building owners, engineers, architects and occupational health specialists to members from regulatory agencies.

The organization gathers and provides information for its members concerning asbestos-related projects and assists through professional accreditation and education resources.

Dodson was also appointed vice chairman of the council's safety and health committee and as a member of the analytical evaluating committee. The latter advises the Environmental Protection Agency which tests the reliability of programs needed to assure air quality standards are met in schools.



Scientific review committee and UTHC administrators

Visiting Committee Gives Research High Marks

A committee of biomedical research scientists from eight institutions across the country and Canada gave its seal of approval to the UT Health Center's research program.

Following the visiting committee's on-site review, committee chairman Dr. Ronald G. Crystal of the National Heart, Lung and Blood Institute at the National Institutes of Health, said, "There is no question that you have an excellent program. The new research facilities are outstanding, and the overall quality of the investigators and their research is excellent.

"Those of us who have been on prior visits were most impressed with the remarkable 'quantum' changes that have occurred since our last visit. Not only has recruitment been successful — those

recruited have fulfilled your expectations as evidenced by the quality of their research publications — but also by the increase in the amount of grants and other support brought into the institution," Crystal said.

In addition to completion of the new \$9 million Biomedical Research Building, several important equipment purchases made possible by UT System Permanent University Fund (PUF) allocations accelerated the health center's scientific efforts.

The on-site visit by an external group is made every two years, said executive associate director Dr. Allen B. Cohen.

"The purpose is to have scientists from around the country offer guidelines and recommendations on how to improve the quality of our research work," he said.

Idell appointed head of pulmonary

Dr. Steven Idell, associate professor of medicine, has been named director of the pulmonary division within the Department of Medicine.

Idell came to the health center in 1984 from Temple University where he received both his M.D. and Ph.D. degrees. In Philadelphia, he was director of Temple University

Hospital's respiratory intensive care unit, a position he assumed in Tyler in addition to research activities.

His research specialty is adult respiratory distress syndrome.

The pulmonary division which he now heads has nine full-time physicians and a large outpatient clinic. The referral services include the diagnosis and treatment of patients with asthma, chronic bronchitis, emphysema and pneumonia.

Newsbriefs

Asbestos program gets international exposure

The UT Health Center and the Environmental Research Institute co-sponsored an asbestos awareness education program in April in Tokyo, Japan.

The program was requested by Mitsui and Company, Inc., to help update their managerial officers in regulatory guidance programs that have been established in the United States.

Mitsui sought help from the Tyler facilities because of their role in Environmental Protection Agency and Occupational Safety and Health Administration teaching programs on asbestos training and awareness throughout the U.S.

"This is the second time within the last six months that the health center has been asked to provide educational programs at the international level," said Dr. Wilbur G. Avery, UTHC associate director for medical education.

"We are delighted to have reached a position of awareness at the national level on asbestos-related problems and to have become a resource in this international meeting," Avery said.

UTHC top fundraiser for Tyler Heart Hike

The American Heart Association raised more than \$3,000 during its Heart Hike in April with UT Health Center heart patients, employees and their families raising \$1,657, over half of the total contributions.

The 52 participants representing the health center walked one mile at UT Tyler to raise funds to fight cardiovascular diseases through AHA's research, public education and community service programs.

The health center donated two free stress tests, 10 cholesterol screenings, six lung function tests, and eight health risk appraisals as AHA's door prizes.



Bill Faulkner entertains third graders with help from Brad Boles, 9, during a drug awareness program

Third graders given lesson on drugs

The UT Health Center and the Tyler Association of Pharmaceutical Sales (TAPS) co-sponsored a drug awareness program for third graders in Tyler and surrounding area school districts.

Drug sales representatives from 18 pharmaceutical companies worked in teams of two to present programs stressing the dangers of illegal drugs and the misuse of prescription and over-the-counter drugs, says UTHC education coordinator Betty Tirey.

"As people involved daily in the legitimate sale of prescription drugs, the pharmaceutical representatives feel a strong responsibility to educate students about the harmful effects of drug misuse and abuse," Tirey said.

At a training meeting in preparation for the eight-week program, a state law enforcement agency's nar-

cotics division said that the misuse of prescription drugs accounts for a major portion of the drug problem, Tirey said.

Nine teams gave 40-minute presentations in 88 classrooms in Tyler, Winona, Chapel Hill, Lindale, Bullard and Troup school districts. Students and teachers were also given educational materials to keep.

The drug companies participating in the special project were Abbott Laboratories, Adria Laboratories, CIBA Pharmaceuticals, Geigy Pharmaceuticals, Key Pharmaceuticals, Marion Laboratories, McNeill Pharmaceuticals, Mead-Johnson Laboratories, Otho Pharmaceuticals, Pfizer Laboratories, A.H. Robins, Roche Laboratories, Roerig Laboratories, Sandoz, Inc., Wallace Laboratories, Whitehall Laboratories and Upjohn Pharmaceuticals.

Special classes held on hypertension risk

More than 40 million Americans may have hypertension or high blood pressure, a leading risk factor for heart attack and stroke, according to American Heart Association statistics.

The UT Health Center offers a free monthly education program to help people with hypertension and their family members to learn more about the condition and how to control it.

Two of every 10 individuals are at risk for developing hypertension and its subsequent cardiovascular problems, according to course director Dr. Thomas Belt, an assistant professor of medicine.

Enrollment is limited to 20 patients who are allowed to bring one family member to the sessions. Belt said participants are given ample opportunity to ask questions.

Patient education channel available

While the new patient education channel may not have network television's technical sophistication, the instructional programs telecast on channel 4 may get top ratings from UT Health Center patients interested in managing their own care.

The health center now offers a series of tapes covering various topics to help heart, cancer and respiratory patients better understand their conditions, the care they will receive here and what they can do to speed their recovery, says Dr. Rick Carter, associate professor of medicine and physiology who helped organize the new service.

The biomedical engineering department installed a transformer and adjusted patient televisions to receive the instructional tapes on channel 4 from 10 a.m. to 3 p.m. and 4 to 9 p.m. weekdays.

The project began when the cardiac rehabilitation committee wanted to educate heart patients in the most efficient way, he said.

"After input from other departments, we knew this was a much-

needed program," he said.

"These tapes will give the patients and their family members access to more information."

Tapes included on the channel's first broadcast covered such topics as cardiac catheterization, chemotherapy, asthma, the heart, stress management, hypertension and diabetes.

Brenham workers tested by UTHC's lung clinic

The Occupational Medicine Clinic at the UT Health Center has been awarded a two-year contract from a Brenham textile factory to test and treat its workers who may have been occupationally exposed to airborne substances harmful to their lungs.

Under the contract, the clinic is evaluating 350 employees of Brentex Mills, Inc., a manufacturer of blue-jean pockets. According to the clinic's director, Dr. Richard Kronenberg, chairman of the Department of Medicine and director of occupational medicine, this is the health center's first contract with an employer wanting its entire workforce examined.

Since the clinic opened last year, most patients have been self-or physician-referrals or by attorneys involved in disability or compensation cases.

A medical team, composed of a pulmonologist, radiologist, radiologic technician, nurse clinician and pulmonary function technician has made numerous trips to Brenham to make on-site tests and medical evaluations.

Some 30 Brentex workers to date have tested abnormal in overall examinations involving X-rays, medical histories, physical examinations, sophisticated lung function testing and audiograms or hearing tests.

These workers, at risk for developing byssinosis — an occupational respiratory disease caused by cotton — are now undergoing further diagnostic tests at the health center, Kronenberg said.



Ragna Neill

UTHC's Neill named district nurse of year

Nursing education instructor Ragna Neill was selected Nurse of the Year by the Texas Nursing Association District No. 19 during National Nurses Week.

Neill, a registered nurse for 25 years who has worked at the health center since 1975, shares the honor with Medical Center Hospital nurse Kathy Gomez.

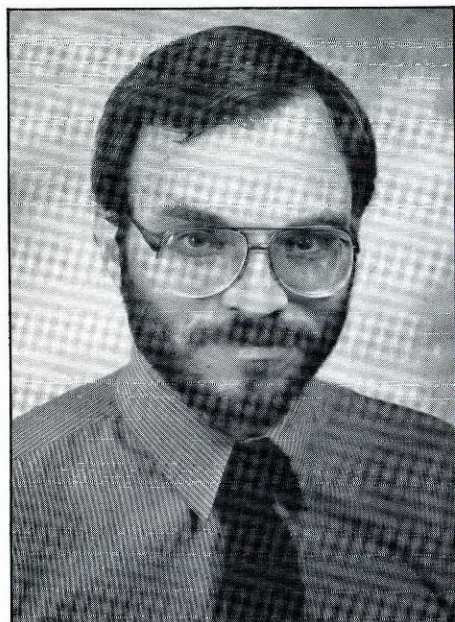
The women were selected in a district-wide vote for their contribution to the nursing profession. Registered nurses from Smith, Anderson, Cherokee, Henderson, Rains and Van Zandt counties compose District 19.

"I am honored and proud to have received this award," Neill said. "All nurses deserve recognition for their work. They all do a very special job."

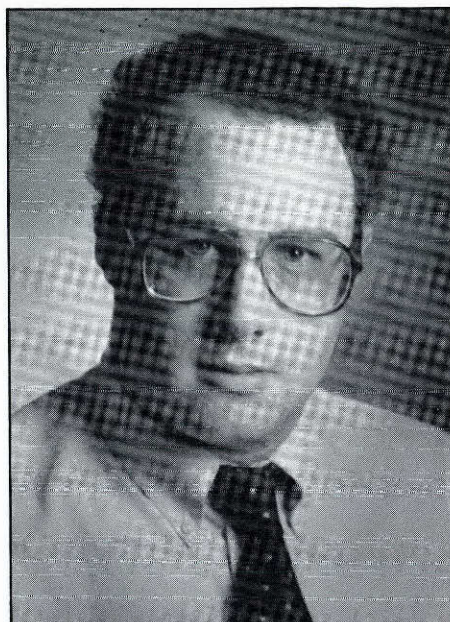
She received a nursing diploma from Texas Eastern School of Nursing in 1963. In 1981 she obtained her B.S. degree in nursing from UT Tyler.

A Tyler native, Neill joined the nursing staff as a patient care coordinator and has been in nursing education the last four years. She is treasurer of TNA District 19 and was recently inducted a charter member of the Tyler Chapter of Sigma Theta Tau, the international nursing honor society.

Appointments



Dr. Philip G. Black



Dr. Joseph B. Jones



Martha J. Ives

The University of Texas Health Center has appointed two new physicians, a pediatric pulmonologist and an internist, and a new nursing director, an-announced Director Dr. George A. Hurst.

Dr. Philip G. Black, who joined the health center as an assistant professor of pediatric pulmonary, was formerly assistant professor of pediatrics at the University of Utah Medical Center where he was director of the Intermountain Cystic Fibrosis Center.

Dr. Joseph B. Jones, formerly of Scott and White Hospital in Temple, was appointed assistant professor of medicine.

Black will manage the care of cystic fibrosis patients at the health center which is a satellite center providing special diagnosis and treatment of CF and continue his research of CF therapy. He will also assist in the care of other pediatric pulmonary patients.

He has written several journal articles and abstracts on his research of cystic fibrosis therapy.

Black obtained his B.A. degree in biology and an M.A. in physiology and cell biology from the University of Kansas where he also graduated from the medical school in 1979. He completed an internship at the University of Kansas Medical Center and a residency at the University of Utah Medical Center and a fellowship at Tulane University. He is board certified in pediatrics and pediatric pulmonary.

Jones received a B.S. degree in biology from Stephen F. Austin State University where he graduated cum laude. After obtaining an M.D. degree from the UT Medical Branch at Galveston, he completed his internship and residency at Scott and White.

He is board certified in internal medicine and is an associate of the American College of Physicians.

Martha J. Ives, formerly patient services director for a Michigan hospital, was appointed associate director for nursing service. She will direct a nursing staff of more than 200 who provide direct patient care for heart and lung patients sent

here for further diagnosis and treatment.

Since 1986, Ives managed the nursing, physical therapy and cardio-pulmonary departments of Carson City Hospital, a 103-bed community acute care teaching hospital. Prior to that, she was associate administrator at Maple Lawn Medical Care Facility in Coldwater, Michigan. While at Maple Lawn, she was a nursing instructor at the University of Michigan.

Ives received a B.S. degree in nursing — graduating cum laude — from the University of Michigan and an M.S. degree in nursing administration from Andrews University in Berrien Springs, Michigan.

She is board certified in advanced nursing administration by the American Nurses Association.

"We conducted a nationwide search to fill this important position," Hurst said. "The health center needs someone who can provide leadership during a period when we are facing a national nursing shortage."

The following are recently published or to be published research papers written by research and clinical faculty at The University of Texas Health Center at Tyler. Health centers authors are in bold.

American Journal of Physiology, Cultured coronary artery endothelial cells synthesize monohydroxyeicosatetraenoic acids and prostacyclin" by Revtyak GE, **Johnson AR** and Campbell WB.

American Journal of Pathology, "Recombinant Alpha-1-Antitrypsin Pittsburg Attenuates Experimental Gram Negative Septicemia" by Colman RW, Flores D, Defacedena RA, Scott CF, Causens L, Barr PJ, Hoffman IB, Kueppers F, Fisher D, **Idell S** and Pisarello G.

Acta Neuropathol, "Cerebrovascular endothelial permeability: *In-Vitro* studies" by Kempki O, Villacara A, Spatz M, **Dodson R**, **Corn C** and Merkel N, Bembry J.

Annual Reviews of Biochemistry, "Protein Serine/Threonine Kinases" by AM Edelman, **DK Blumenthal** and EG Krebs.

American Review of Respiratory Disease, "Brochoalveolar Lavage Procoagulant Activity in Bleomycin-induced Lung Injury Relationship to Pulmonary Fibrosis" by **Idell S**, **Gonzalez K**, MacArthur CK, Walsh PN, Gillis C and Thrall RS

American Review of Respiratory Disease, "Factor X Activating Activity in Bronchoalveolar Lavage of Patients with Adult Respiratory Distress Syndrome Contribution of Tissue Factor associated with Factor VII" by **Idell S**, Bradford M, **Gonzalez K**, Fein AM, Walsh PN and Colman RW.

American Review of Respiratory Disease, "A Peptide from Alveolar Macrophages With Release of Neutrophil Enzymes into the lungs in Patients with the Adult Respiratory Distress Syndrome" by **Cohen AB**, MacArthur C, **Idell S**, Maunder R, Martin T, Dinarella C, **Griffith D** and **McLarty J**.

American Review of Respiratory Disease, "A peptide from alveolar macrophages which releases neutrophil enzymes into the lungs in patients with the adult respiratory distress syndrome" by **Cohen AB**, MacArthur C, **Idell S**, Maunder R, Martin T, Dinarella CA, **Griffith D** and **McLarty J**.

American Review of Respiratory Disease, "A peptide (durin) from alveolar macrophages (AM) is the major factor which releases neutrophil azurophilic granule enzymes into the lung in patients with ARDS" by **Cohen AB**, MacArthur C, **Idell S**, **Griffith DE**, **McLarty JW**, Maunder R and Martin T.

American Review of Respiratory Disease, "Procoagulant activity in bronchoalveolar lavage in the adult respiratory distress syndrome: contribution of tissue factor associated with factor VII" by **Idell S**, **Gonzalez K**, Bradford H, MacArthur CK, Fein AM, Maunder R, **Garcia JGN**, **Griffith D**, Weiland J, Martin TK, **McLarty J**, **Fair DS**, Walsh PN and Colman RW.

American Review of Respiratory Disease, "Regulation of the procoagulant activity within the bronchoalveolar compartment of normal human lung" by Chapman HA, Stahl M, Allen CL, Yee R, **Fair DS**.

American Review of Respiratory Disease, "Patterns and distribution of aminoglycoside-acetylating enzymes in rapidly growing mycobacteria" by Udoh T, Mizuguchi Y and **Wallace RJ, Jr.**

American Review of Respiratory Disease, "Ampicillin, tetracycline, and chloramphenicol resistant *Haemophilus influenzae* in adults with chronic lung disease" by **Wallace RJ, Jr.**, **Steele LC**, Brooks DL, Forrester GD, **Garcia JGN**, **Luman JI**, Wilson RW, Shepherd S and **McLarty J**.

American Review of Respiratory Disease, "Modification of the bronchoalveolar lavage procedure to allow measurement of solute concentrations in lung epithelial lining fluid" by **Peterson BT**, **Idell S**, MacArthur C, and **Cohen AB**.

American Review of Respiratory Disease, "Local abnormalities of coagulation and fibrinolysis in sheep with oleic acid induced lung injury" by **Idell SI**, **Peterson BT**, **Gonzalez K**, **Gray LD**, **McLarty J** and **Fair DS**.

American Review of Respiratory Disease, "Ampicillin, tetracycline and chloramphenicol resistant haemophilus influenzae in adults with chronic lung disease" by **Wallace RJ, Jr.**, **Steele LC**, Brooks DL, Forrester GD, **Garcia JGN**, **Luman JI**, Wilson RW, Shepherd S and **McLarty JW**.

American Review of Respiratory Disease, "A peptide from alveolar macrophages which releases neutrophil enzymes into the lungs in patients with the adult respiratory distress syndrome" by **Cohen AB**, MacArthur CK, **Idell S**, Maunder R, Martin T, Dinarella CA, **Griffith D** and **McLarty JW**

American Review of Respiratory Disease, "Bronchoalveolar lavage procoagulant activity in bleomycin-induced lung injury in marmosets" by **Idell S**, **Gonzalez K**, MacArthur CK, Gillies C, Walsh PN, **McLarty JW** and Thrall RS.

American Society for Cell Biology, "Liberation from the surface of human alveolar macrophages of a peptide which releases neutrophil granule contents" by Miller EJ, MacArthur CK and **Cohen AB**.

American Society for Cell Biology, "A monocytic leukemia-derived cell line secretes a peptide which is similar or identical to a neutrophil secretagogue, ERP, released from human alveolar macrophages (HAMS)" by MacArthur C and **Cohen AB**.

Archives of Physical Medicine and Rehabilitation, "Exercise Conditioning in the Rehabilitation of Patients with Chronic Obstructive Pulmonary Disease" by **Carter R**, **Nicotra B**, **Clark PL**, **Zinkgraf S**, **Williams J**, **Peavler M**, **Fields S** and **Berry J**.

Biochemistry, "Properties of a Monoclonal Antibody Directed to the Calmodulin-binding Domain of Rabbit Skeletal Muscle Myosin Light Chain Kinase" by Nunnally MH, Stull JT, **Blumenthal DK** and Krebs EG.

Biochemica et Biophysica Acta, "Specific deposition of complement protein C3b on abnormal PHN erythrocytes permits their separation by partitioning. Possible general approach for isolation of specific cell populations" by **Pangburn MK** and H Walter.

Biophysical Journal, "Low Resolution Mapping of Calmodulin-Myosin Light Chain Kinase (MLCK) Interactions Using Synthetic MLCK Peptides" by **DK Blumenthal**, Klevit RE, and Charbonneau H.

Biophysical Journal, "The Effects on Enzyme Activation of Genetically-Engineered Amino Acid Deletions in The Calmodulin Long Helix" by Persechini A, Hardy DO, **Blumenthal DK**, Jarrett HW and Kretsinger RH.

Biochem. Pharmacology, "Inhibition of platelet aggregation and the synthesis of thromboxane by propranolol in human platelets" by Campbell WB, **Callahan K** and **Johnson AR**.

Chest, "Comparison of light and electron microscopy for defining occupational asbestos exposure in transbronchial lung biopsies" by **Dodson R**, **Hurst G**, **Williams M**, **Corn C** and Greenburg S.

Chest, Letter to the editor: "Therapeutic failure due to *Branhamella catarrhalis* in pneumococcal pneumonia" by **Wallace RJ, Jr.**

Chronic Obstructive Pulmonary Disease Current Concepts, "The Pathogenesis of Emphysema" by **Idell S** and **Cohen AB**.

Chronic Obstructive Pulmonary Diseases, "Replacement Therapy of Alpha-1-Antitrypsin Deficiency in Cherniak" by **Cohen AB** and **Idell S**.

Clinical and Experimental Immunology, "Processing and presentation of cell association with Varicella Zoster virus antigens by human monocytes" by Pontesilli O, Carotenuto M, Levine J, Suez D and Hayward A.

Clinical Research, "Kaolin catalyzes hydroxyl radical generation from hydrogen peroxide" by Kennedy T, **Dodson R**, Rawlings W and Hoidal J.

Clinical Research, "Multiple forms of the alveolar macrophage enzyme releasing peptide in bronchoalveolar lavage fluids from patient with ARDS" by **Cohen AB**, MacArthur C, Miller E, **Idell S**, **Griffith DE**, **McLarty JA**, Maunder R and Martin T.

Current Eye Research, "Promoter activity of the two crystallin genes in a HeLa cell extract" by **Das GC** and Piatigorsky J.

Journal of Cell Biochemistry, "Transcription for initiation in BK virus early promoter" by **Das GC**, Chakraborty T and DasGupta S.

Cytobios, "The use of a semiautomatic image analyzer in directly determining mean linear intercept" by Ford J, Davis M, Zinkgraf S and **Dodson R**.

Diagnostic Microbiology and Infectious Diseases, "Susceptibility testing of *Nocardia* species for the clinical laboratory" by **Wallace RJ, Jr.** and **Steele LC**.

Environmental Research, "Comparative efficiency of nucleopore filters of various pore sizes as used in digestion studies of tissue" by O' Sullivan M, **Corn C** and **Dodson R**.

FASEB Journal, "Acute lung injury increases the clearance of aerosolized ^{99m}Tc-albumin from the airspaces of guinea pigs" by Connelly, JC, **Peterson BT** and Dickerson KD.

Hospital Medicine, "Bacterial pneumonia in the adult: Diagnosis and therapy" by **Griffith DE** and **Wallace RJ, Jr.**

Internal Medicine for the Specialist, "Recognition and Management of Respiratory Muscle Fatigue in Chronic Obstructive Pulmonary Disease (COPD)" by **Carter R** and **Nicotra B**.

Journal of American Academy of Dermatology, "Disseminated *Mycobacterium chelonae* ssp. *abscessus*: A case report occurring in an immunocompetent host and with a known portal of entry" by Nelson BR, **Wallace RJ, Jr.**, Rapini RP and Tschen JA (in press).

Journal of Applied Physiology, "Pulmonary lymphatic clearance of ^{99m}Tc-DTPA from air spaces during lung inflation and lung injury" by **Peterson BT** and **Gray LD**.

Journal of Applied Physiology, "Effects of lung volume on clearance of solutes from airspaces of lungs" by **Peterson BT**, **James HL** and **McLarty JW**.

Journal of Biological Chemistry, "Rabbit Skeletal Muscle Myosin Light Chain Kinase: The Calmodulin-Binding Domain as a Potential Active Site-Directed Inhibitory Domain" by Kennelly PJ, Edelman AM, **Blumenthal DK** and Krebs EG.

Journal of Biological Chemistry, "Identification of a surface-localized protease that degrades formyl-met-leu-phe in human neutrophils as neutral endopeptidase (NEP)" by **Painter RG**, Dukes R, Sullivan J, **Carter R**, Erdos EG and **Johnson AR**.

Journal of Biological Chemistry, "Initiation of the extrinsic pathway of coagulation: association of factor VIIa with a cell line expressing tissue factor" by Ploplis VA, Edgington TS and **Fair DS**.

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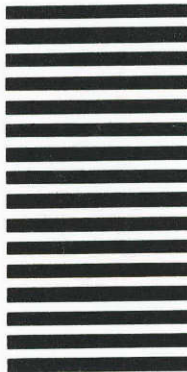
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