From prenatal to geriatric care, from the broad scope of family practice to the complexities of neurosurgery, from temporary church-basement clinics to the $18.1 million MSU Clinical Center, physicians and students from the College of Osteopathic Medicine are helping, healing, touching, teaching patients.

With education and research, service to the people of Michigan forms the foundation upon which programs of the College have been built.

Clinical services offered by the Department of Family Medicine include primary care at the Clinical Center, Ingham Medical Center, migrant worker clinics, and general medicine and venereal disease care for the Ingham County Health Department.

Programs of the Department of Osteopathic Medicine include pediatrics at the Clinical Center, Ingham Medical Center, a Carson City clinic, Lansing Community Health Services, Lansing School District, and a tri-county sports physicals program. The department also offers specialty care in neurology, neurosurgery, cardiology, internal medicine, obstetrics and gynecology, sports medicine and orthopedics, and maxillofacial surgery at the Clinital Center, Olin Health Center, and local hospitals.

In addition, a referral clinic is maintained by osteopathic physicians in the Department of Biomechanics for patients with musculoskeletal problems.

In this issue of the Communiqué, we will be focusing on the clinical programs of the College -- the areas of service in which our faculty and students are regularly meeting the needs of a burgeoning patient population. We hope you will enjoy it.

Philip E. Greenman, D.O.
Associate dean for academic affairs

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Communique, a newsletter publication of the Michigan State University College of Osteopathic Medicine, is issued 18 times a year through the Health and Medicine Section of the MSU Department of Information Services, A331 E. Fee Hall, East Lansing, MI, 48824; telephone 517/353-0820. Members of the Editorial Advisory Committee include Allen W. Jacobs, Ph.D. (chairman); Francis A. Bernier, Ph.D., Gordon C. Spink, Ph.D., D.O.; Nancy M. Houston, B.A. (editor), Patricia Grauer, M.A. (associate editor). Production and circulation manager is Carol Howland. Date of next issue will be Sept. 18. Copy deadline for next issue: Sept. 1.
COMMUNIQUE

Please use this form for submission of material for the biweekly College of Osteopathic Medicine Communique. Items might include achievements and activities of College personnel such as honors and awards, publications, papers, professional offices, and participation in programs and committees.

The form may also be used for items for the Calendar of Events, suggestions for feature stories, updating of programs, and provision of any other information that might be pertinent for publication in the newsletter.

The editors and editorial advisory committee retain the right to edit or exclude any material.

Please print or type, and do not include any information that is more than one month old.

Date of submission

Name

Highest degree

Position

Address

Phone

CALENDAR ITEMS

Date

Time

Event

Sponsor

Location

Other information

NEWS ITEMS OR FEATURE SUGGESTIONS

PLEASE RETURN TO the Health and Medicine Section, Information Services, A331 East Fee, Michigan State University, East Lansing, MI 48824. For assistance call 517/353-0820.
PRIMARY CARE MODULE AT CLINICAL CENTER
MANNED FULL-TIME BY FAMILY MEDICINE PHYSICIANS

Five physicians from the Department of Family Medicine man a full-time
group practice at the Clinical Center under
the direction of Lynn F. Brumm, D.O., chairman
of the department.

Providing all kinds of
primary care, the clinic
is located in the first-
floor (purple) module.

Hours are 8 a.m. to 5 p.m.
Mondays through Fridays,
though there is a 24-
hour on-call system for
both ambulatory and
hospital patients of the
clinic, Brumm said.

The summer schedule of physicians at the clinic includes:

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<th>Day</th>
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<tr>
<td>Mondays</td>
<td>John Thornburg, D.O., Ph.D., assistant professor</td>
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<tr>
<td>Tuesdays</td>
<td>Gordon Spink, D.O., Ph.D., associate professor</td>
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<td>Wednesdays</td>
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<td>John McNeil, D.O., associate professor (afternoons)</td>
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<td>Fridays</td>
<td>Richard E. Griffin, D.O., professor</td>
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</table>

Brumm said that since the Department of Family Medicine organized as a group
practice on May 15, the average number of patient visits more than doubled,
with as many as 174 new patients being seen during one month. The current
patient load in the module is 22 to 30 persons a day.

Second-year osteopathic medical students just beginning clinical experience,
third-year medical students on two-week electives, and nursing students are
currently trained in the primary care module.

Referrals are handled within the Clinical Center, with most faculty on the
staff of Lansing General Hospital or Ingham Medical Center when patients require
hospitalization.

Appointments may be made at the Clinical Center primary care unit by calling
353-3012.

-3-
CLINTON COUNTY MIGRANT WORKERS GIVEN MEDICAL CARE
BY MSU-COM VOLUNTEER PHYSICIANS AND STUDENTS

Clinical care, an important part of the medical school experience, is being provided by College of Osteopathic Medicine students and faculty this summer as members of the migrant worker clinic staff.

Second- and third-year students have worked Wednesdays at the St. Johns clinic under the direction of Roy Harvey, D.O., diagnosing and treating the ailments of more than 30 patients a night from the Clinton County area.

The clinic was set up to serve the medical needs of the migrant worker population of mid-Michigan while providing a chance for medical students to give hands-on patient care.

Patients are examined by the students, with physicians on hand to authorize prescriptions and treatments. Enthusiasm for the clinic has been widespread among the student participants.

"The clinic puts you into the position where you must make decisions on your own, which makes you think a little harder," said second-year student Barry Kitts.

Although the treatments he had suggested to that point had been elementary, the exposure to basic medical problems had been very helpful, Kitts said.

The clinic has also been popular among the patients, who often return for care. There are some interesting complications, though, since many of the patients do not speak English.

Most of the patients are of Spanish-American descent, and travel from Texas to Michigan each summer to work in the fields. This lack of continuity in any one community, as well as the problems of cultural differences and low family income, make long-term medical care difficult for the families.

But the efforts of the medical schools and the representatives of United Migrants for Opportunity, Inc., who coordinate and facilitate the clinic's operation, have helped fill the medical care gap, Harvey, professor of family medicine, said.

"We are happy with the program," he said, citing a count of 32 patients the third week and 29 the fourth week the clinic was open.

Patients are taken through a series of medical stations in which vital signs and blood and urine samples are taken before actual examination. These samples are usually analyzed on the spot by laboratory personnel to allow immediate detection of symptoms.

The clinic is staffed primarily by volunteers, including most of the lab and pharmacy personnel.

The College of Human Medicine also sponsors a migrant clinic in Mason at which some of the MSU-COM students have worked.
Osteopathic students who have worked at the clinic this summer include: Robert Armada, graduate assistant for the clinic; Efrain Azarate, Carmen Everett, Howard Galarneau, Nanine Henderson, Sergio Huerta, Barry Kitts, Cynthia Lund, Alice Raynesford, Juan Rivera, Beth Robertson, John Shonerd, Cristina Torres, and Kathryn Wright.

John Bell, D.O., L.A. Marohn, D.O., and Roy Harvey, D.O., all faculty of the Department of Family Medicine, have been consulting physicians during the clinics this summer.
FAMILY MEDICINE CLINIC:
INGHAM MEDICAL CENTER

The use of health care teams and the development of a protocol system for treatment are emphasized at the Family Medicine Clinic administered by MSU-COM's Department of Family Medicine at the Ingham Professional Building.

Under the direction of Gary Campbell, D.O., assistant professor of family medicine, the primary care clinic serves 30 to 40 patients each day, an increase of 125 a month since the clinic opened full-time June 1.

Manning the clinic from 9 a.m. to 5 p.m. are John Bell, D.O., associate professor of family medicine, on Mondays and Wednesdays; Campbell on Tuesdays and Fridays; and James Davis, D.O., associate professor of family medicine, on Thursdays.

Two full-time R.N.s, working as nurse practitioners, do patient education and some primary care and follow-up, Campbell said.

In addition, clinic personnel use videotapes, pamphlets and visual aids on topics such as diabetes, hypertension, basic nutrition and atherosclerosis to increase patient compliance.

Protocol systems, rigid guidelines to be followed by students for minimal care, are being developed for the ten most common diagnoses, which include hypertension, diabetes, well-patient examinations, urinary tract infections, and somatic dysfunctions, Campbell said.

Two second-year osteopathic medical students participate in the clinic in the afternoons, and students taking electives in family medicine are present in the mornings.

Clinic facilities are shared with pediatricians or internists from the Department of Osteopathic Medicine three mornings a week.

More than 70% of the clinic's patients are there for episodic care, Campbell said, though he expects that this figure will decrease.

Persons desiring an appointment at the Family Medicine Clinic should call 374-2338.
TIEN NAMED CHAIRMAN
OF MSU BIOPHYSICS DEPARTMENT

Dr. H. Ti Tien, a member of the Michigan State University faculty since 1966, has been named chairman of the university's Department of Biophysics. His appointment, retroactive to July 1, was formally approved July 28 at the regular meeting of the MSU Board of Trustees.

Tien is also a professor of biophysics. His major teaching and research areas are membrane biophysics and interfacial chemistry.

A chemical engineering graduate of the University of Nebraska where he received an M.A. in chemistry, he earned the Ph.D. in physical chemistry at Temple University.

Tien worked as a project engineer for Allied Chemical Corp. and industrial companies for a number of years before resuming his studies and obtaining his Ph.D. in physical-inorganic chemistry.

From 1957 to 1963, Tien was at Eastern Pennsylvania Psychiatric Institute, Philadelphia, where in collaboration with other medical scientists he was instrumental in discovering a method for generating bilayer (black) lipid membranes (BLM). These ultra-thin (less than one-millionth of an inch) membranes can be used as a model to understand molecular mechanisms.

From 1963 to 1966 he was on the chemistry faculty at Northeastern University in Boston.

In 1968 Tien observed photoelectric effects in pigmented BLM and suggested the use of photoelectric BLMs as solar cells.

Recently, he was invited to present a plenary lecture at the First International Conference on Photochemical Conversion and Storage of Solar Energy.

Currently Tien's group, besides continuing research in membrane biophysics, is developing a new type of electrochemical photocell for solar energy conversion.

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Robert Chadwick, B.S., third-year student, presented a paper on "The Effects of Cranial Manipulation upon Ryodoraku Acupuncture Meridians" at the annual seminar of the Cranial Academy held June 12-14 at MSU. The experiment was coauthored by John Upledger, D.O., associate professor of biomechanics.
POLLUTION FROM COAL-BURNING
UNDER INVESTIGATION BY CARCINOGENESIS RESEARCHERS

The possible cancer-causing effects of low-level pollution from coal burning
is under investigation by researchers at MSU's College of Osteopathic Medicine.

J. Justin McCormick and Veronica Maher, codirectors of the Carcinogenesis Laboratory, are studying known cancer-causing pollutants of coal combustion to determine the effects of different concentrations of such agents on human cells in culture.

Their research, significant because of the shift from an oil-to-coal-burning economy, is under a five-year contract with the Department of Energy, with $120,000 funding for the first year. The grant was accepted by the MSU Board of Trustees Friday (July 28) at its regular meeting.

The researchers are particularly interested in benzo(a)pyrene, a carcinogen which is representative of a whole class of compounds, is produced in large amounts of coal-combustion and is well studied in other cancer research.

In the United States, more than 2,000 tons of benzo(a)pyrene — about half of which comes from coal combustion — are released each year into the atmosphere, McCormick said. Although it is broken down eventually by sunlight, it can be readily found in the air in any city and in many rural areas.

Using cells from both normal and genetically cancer-prone individuals, the researchers are studying whether there is a "safe" level for these compounds. Such studies can provide a scientific basis for determining how pollution-free air should be when it leaves coal-burning plants.

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CANCER SOCIETY PROFESSORSHIP
AWARDED TO GEORGE SUHRLAND

Leif George Suhrland, M.D., professor of medicine, College of Human Medicine, has been awarded the American Cancer Society Professorship of Clinical Oncology, a five-year position during which he will have a key role in expanding MSU patient care programs and cancer education for physicians.

Suhrland is nationally known for work in hematology and oncology, and is involved in research into the clinical problems in the control of cancer, including working as the principle investigator for a national project to improve outcomes of surgery for breast cancer.

He has served as professor of medicine at MSU since 1967, was acting chairman of medicine for one year, departmental vice-chairman for four years as well as project director for Michigan Regional Medical Programs.

Before coming to MSU, Suhrland taught medicine at Case Western Reserve School of Medicine, and was associate director of medicine at Highland View University Hospital in charge of programs in oncology. He received his medical degree from the University of Rochester in 1950 and took his internship and residency in general medicine and oncology at the University Hospitals in Cleveland.

***
LAURICIDIN UNDER INVESTIGATION
AS CARIES-REDUCING AGENT

A food compound that neutralizes the effects of sugar on tooth decay is being investigated by researchers at MSU's College of Osteopathic Medicine.

The substance -- called Lauricidin -- is a nontoxic germ-killing agent already approved as a food additive by the U.S. Food and Drug Administration.

Depending on diet, a 40 to 60 percent reduction in dental cavities with Lauricidin is cited by principal investigator Jon J. Kabara, Ph.D., professor of biomechanics.

Kabara, Rachel Schemmel, Ph.D., professor of food science and human nutrition, and Charles L. SanClemente, Ph.D., professor of microbiology and public health, are studying the effects of certain dietary fats on tooth decay under a $29,875 annual grant renewal from the National Institutes of Health. The grant renewal was accepted by the MSU Board of Trustees at its monthly meeting Friday (July 28).

"Dental caries (cavities) are primarily an infectious disease," Kabara said. "Studies have shown that certain antibiotics -- notably penicillin -- will reduce caries. Others indicate that animals raised in a germ-free environment can be maintained on a very high-sugar diet, and still not get caries."

The impracticality of using antibiotics such as penicillin for the general population led the group to study Lauricidin, which Kabara considers the only antibiotic which is edible and nontoxic.

Organisms which cause caries have been found to be particularly sensitive to the germ-killing activity of Lauricidin, a fat which is a breakdown product of the triglyceride family. A natural agent, it is found primarily in coconuts, but also in small quantity in every food that contains fat.

Lauricidin is now being studied for oral hygiene and in food products around the world with the expectation that it may neutralize the effects of dietary sugar, Kabara said.

Assisting the research are Ruth Vrable, research assistant, and graduate students Patricia Lynch, Kim Krohn, Kathy Goetz and Noorjehan Bhimji. Consultation is provided by Saman Syed and Walter Loesch of the University of Michigan dental school.

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Walid Ghurabi, D.O., alumnus and resident in emergency medicine at Sparrow Hospital, received American citizenship on July 18.

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FEE HALL BLOOD DRIVE
NETS 108 PINTS

The July 21 Red Cross blood drive held in Fee Hall brought in 108 pints, mostly from the College of Osteopathic Medicine students and faculty, according to program coordinator Jeff Kyff.

The donations will be used to supplement Michigan's chronically short blood supply.

Several OOM students helped run the program, with the organizational work done by Kyff, Craig Crafton and Val Payne. Recruitment of donors was done by Payne, Mark Halonen, and Pat Rodgers.

The following students worked in set-up and by assisting donors: John Beyer, Jay Cherubim, Clint Edson, Phil Gaca, Ron Kienitz, Bob Koski, Bing Liem, Cindy Lund, Doug Marsh, Kevin O'Connell, Larry Prokop, and Joe Roth.

Sue Coughlin, Glenn Ekblad, Tina Torres and Karen Turner helped with nursing.

The drive was sponsored by Sigma Sigma Phi osteopathic fraternity.

--- Lynn Allen

***
A NOTE OF THANKS FROM THE RED CROSS

On behalf of all our area hospital patients, the Great Lakes Regional Red Cross extends its deepest thanks to the MSU osteopathic students and faculty for their Fee Hall blood drive on July 21st. With their help we were able to successfully collect 108 productive units of blood, surpassing our goal for the drive.

It is through such willing participation as the Blood Program that we are able to supply our patients in 34 counties with the blood and blood products necessary for their lives. The osteopathic students and staff have done those patients a great service by giving the "Gift of Life."

Sincerely,

[Signature]

Joseph R. Trombley
Administrator

A triumphant toast from five-gallon donor Clifford W. Welsch, professor of anatomy

Among the 108 donors was Philip E. Greenman, associate dean for academic affairs
SECOND STATEWIDE CONFERENCE
ON RESEARCH IN FAMILY MEDICINE
SET FOR NOV. 2 AT MICHIGAN STATE

The call is going out for research papers on family medicine for presentation at Michigan's second annual Family Practice Research Day on November 2 at Michigan State University.

Last year's conference, also at MSU, was the nation's first statewide meeting on research in family medicine — the medical specialty providing health care for the entire family.

Research topics for 1978 will include: family research, interdisciplinary care, community care, clinical/medical research, medical/health education, medical economics, and case presentations.

Awards will be given for best papers in six presenter categories: family practice resident, medical student, practicing family physician, family practice faculty/community based, family practice faculty/university based, and allied health professionals, including nurses, social workers, and psychologists.

(Last year's student winner was Anne M. Pawlak, second year student in MSU's College of Osteopathic Medicine, whose paper was on "Chalone Inhibition Inducing Tumorogenesis.")

Prospective program participants wishing to present papers are advised to submit abstracts by Sept. 29 to the Research Day Planning Committee, chaired by Douglas McKeag, M.D., B-100 Clinical Center, Michigan State University, East Lansing, Michigan 48824, Telephone: (517) 353-0850. Detailed abstract information is available from Dr. McKeag, Dr. David Hough, or Blake Smith at (517) 353-0850.

Application has been made for American Osteopathic Association Category 2 and Michigan Board of Osteopathic Medicine Surgery Category 2 continuing medical education credit. The conference is acceptable for 8 hours of AMA Category I CME credit and for 8 prescribed hours by the American Academy of Family Physicians.

***

Ralph Otten, D.O., was named a full professor of internal medicine in the Department of Osteopathic Medicine by recent action of the MSU Board of Trustees.

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Malcolm E. Williamson, D.O., clinical associate professor of osteopathic medicine at Riverside Osteopathic Hospital, attended the June national convention of the Society of Nuclear Medicine held in Annaheim, California.

***

John Casbergue, Ph.D., associate professor in the Office of Medical Education Research and Development, is the author of "Role of Faculty Development in Clinical Education" published in the book Evaluating Clinical Competence in the Health Professions (edited by Margaret K. Morgan and David M. Irby, and published by the C. V. Mosby Co., St. Louis, 1978). He also participated as a member in a meeting of the National Research Council Committee (Commission on Sociotechnical Systems) in Jacksonville, Florida, June 18-20.
SYMPOSIUM ON MICHIGAN MENTAL HEALTH RESEARCH SET FOR MSU ON SEPT. 8

Psychiatrists and other health care professionals from Michigan's medical schools, Detroit's Lafayette Clinic, Northville Regional Psychiatric Hospital, Veterans Administration Hospital in Ann Arbor, and the Washtenaw County Community Health Center will take part in the second annual Symposium on Research on Mental Health in Michigan on Sept. 8.

Site of the all-day conference will be Michigan State University's Kellogg Center for Continuing Education.

Presentations will include "Denying the Incredible: Unexplained Deaths in a Veterans Administration Hospital" and "Impact of a Skywalk Accident on a School Population."

A psychosomatic medicine panel will explain psychological aspects of open heart surgery and cardiovascular psychosomatic research. Another panel will center on "Psychotropic Drug Blood Levels and Therapeutic Response."

An update on last year's mental health symposium will provide reports on schizophrenic research, clinical and laboratory diagnostic applications in depression, and use of survey research in community mental health planning.

Symposium sponsors are the Mental Health Association in Michigan, Michigan Department of Mental Health, and departments of psychiatry at the University of Michigan Medical School (U of M), Wayne State University School of Medicine (WSU) and Michigan State University's College of Human Medicine and College of Osteopathic Medicine.

The panel on "Responses to Catastrophic Life Events" will include presentations on "Denying the Incredible: Unexplained Deaths in a Veterans Administration Hospital" by Phillip Kroll, M.D., of the VA Hospital, Ann Arbor, and U of M. "Impact of a Skywalk Accident on a School Population: An Intervention and Research Study" will be presented by Gaston E. Blom, M.D., MSU. "Principles in Understanding Psychic Damage" will be the topic of Henry Krystal, M.D., MSU. Discussant for the panel will be Elliott Luby, M.D., Southfield.

Participants in the psychosomatic medicine panel will be Lawrence VanEgeren, Ph.D., MSU, who will discuss "Cardiovascular Psychosomatic Research," and Sumer Verma, M.D., also at MSU, who will discuss "Psychological Aspects of Open Heart Surgery." Discussant will be George Curtis, M.D., U of M.

A research update from last year's symposium on mental health research will include reports on "Schizophrenic Research" by Charles E. Frohman, Ph.D., Lafayette Clinic, Detroit; "Clinical and Laboratory Diagnostic Applications in Depression" by Michael Feinberg, M.D., U of M; and "The Application of Survey Research in Community Mental Health Planning" by David Clifford, Ph.D., Washtenaw County Community Mental Health Center. Moderator for the session will be Harold Wright, M.D., of Hawthorn Center.

A panel on "Psychotropic Drug Blood Levels and Therapeutic Response" will include presentations on "Plasma Tricyclic Antidepressants and Clinical Response" by Robert Bielski, M.D., MSU, and "Haldol's Blood Levels vs. Clinical Responses, Its Drug Interaction and the Effect of Drug Holidays" by Pang L. Man, M.D., Northville Regional Psychiatric Hospital, WSU and Veterans Hospital, Allen Park. Discussant will be Edward Domino, M.D., Lafayette Clinic and U of M.
UNIT III NEWS AND INFORMATION

Center Representatives There will be a center representatives meeting at 4 p.m., Thursday, August 31, at the Michigan Center for Continuing Education in Osteopathic Medicine, 900 Auburn Rd., Pontiac. Dinner will be served.

Evaluation Forms Evaluation forms must be sent as soon as possible to the Unit III office so students may receive grading before they begin their internships.

***

KORRS HONORED AT FACULTY SPOUSES PICNIC

Irvin M. Korr, Ph.D., professor of biomechanics, and his wife Barbara were honored by more than 60 persons attending the Faculty Spouses picnic held July 23 in Wonch Park, Okemos.

The Korrs, who will be joining the faculty of the Texas College of Osteopathic Medicine, were subjected to "An Ode to Sir Ivan and Lady Barbara" composed for the occasion by Philip E. Greenman, associate dean for academic affairs.

***

STUDENT ASSOCIATE AUXILIARY MEETING: UNDERSTANDING OSTEOPATHIC MANIPULATIVE THERAPY

A presentation on "Understanding Osteopathic Manipulative Therapy" will be given to the Student Associate Auxiliary at their meeting at 7 p.m., August 16, at the home of Sue Donalson, 4592 Ottawa.

Lon Hoover, D.O., associate professor of family medicine, will be assisted by six of the members in performing certain manipulative techniques.

All spouses and associates are invited to attend.

***

Gaston E. Blom, M.D., professor of psychiatry and elementary and special education, has been appointed a review editor for the American Journal of Psychiatry, and as also liaison to the International Year of the Child 1979 by the American Academy of Child Psychiatry. He has been awarded a training grant in child psychiatry for three years from the National Institute of Mental Health.

***

Stewart D. Cole, D.O., 1975 alumnus and clinical assistant professor of family medicine, has relocated his practice to 1902 Second Avenue, Tillamook, Oregon, He will be engaged in full general practice, including obstetrics and care of hospital inpatients.

***
MSU-COM PHYSICIANS, STUDENTS SERVE AT COUNTY VENEREAL DISEASE CLINIC

More than half the cases of gonorrhea and syphilis found in Ingham County during the first half of 1978 have been discovered through the work of the venereal disease clinic partially staffed by the College of Osteopathic Medicine.

Under the direction of John Bell, D.O., associate professor of family medicine, and Max Cook, M.D., director of Ingham County medical services, the clinic had 3046 patient visits from January to June, in which 591 positive gonorrhea and five positive syphilis tests were performed.

Work at the clinic includes examination, treatment, some laboratory procedures, counseling, and investigation of sexual contacts of positive cases, Bell said.

Each patient entering the clinic is checked by a gonorrhea culture, a blood test for syphilis, and an examination for visible chancrea. Other services include pregnancy testing and care for genital warts, trichomoniasis and yeast infections, he said.

Numbers are assigned to each of the patients, who usually range from 15 to 30 years of age, to protect their anonymity. An equal number of men and women utilize the clinic.

Patient education is emphasized, with stress placed on the possible complications of untreated venereal infection and the importance of treatment for all sexual contacts.

Clinic staff have also prepared an educational unit, including texts, for use in seventh through twelfth grade schools this fall, and are on call to make presentations at all Ingham County schools.

The clinic, located at 701 N. Logan, Lansing, is open from 8:30 to 11:30 a.m. and 1 to 4 p.m. daily, though Tuesday mornings and Wednesday afternoons are reserved for rechecking patients who have already received treatment.

Second-year students from the College of Osteopathic Medicine are trained and assist with examinations at the clinic. In addition, Dr. Bell also serves on Thursday afternoons at a general medicine clinic at the same location.

Carolyn Koski, wife of MSU-COM student Bob Koski, is a venereal disease field representative for Ingham County at the clinic.
Health programs for children -- ranging in scope from a tri-county sports physicals program to specialty care at the Clinical Center -- are being conducted by the Division of Pediatrics of MSU's Department of Osteopathic Medicine. Bernard Kay, D.O., professor of pediatrics, is chief.

MSU Clinical Center

From 400 to 500 patient visits each month-- both pediatric primary and specialty care -- are handled nine half-days each week by physicians at the Clinical Center.

The clinic, which is receiving referrals from around the state, also maintains an on-call schedule for all patients.

Allergy testing and desensitization are available for each pediatric patient this summer, Kay said.

Educational programs in the clinic include second- and third-year students from the College of Osteopathic Medicine; clerks, residents and interns from Lansing General Hospital; nurses from MSU's graduate nursing program; and those enrolled in the nurse practitioner practicum from the University of Michigan.
Working in the first-floor pediatrics module as of September 1 will be

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<td>Mondays</td>
<td>Max Robins, D.O., associate professor</td>
<td>Bernard Kay, D.O., professor</td>
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<td>Tuesdays</td>
<td>Kenneth Mahoney, D.O., associate professor</td>
<td>Thomas Santucci Jr., D.O., professor</td>
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<td>Wednesdays</td>
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<td>Thursdays</td>
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<td>Fridays</td>
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<td>Santucci</td>
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**Ingham Medical Center**

Primary-care pediatrics is offered from 8 a.m. to noon Mondays and Fridays by Frank Schneiderman, D.O., professor, at the Ingham Medical Center Family Care Unit.

Third-year students from the College of Osteopathic Medicine are trained at the unit, which handles approximately 15 patient visits each week.

**Community Health Services**

An extension of the Ingham County Health Department, Community Health Services, a large social services unit, is located at 701 N. Logan, Lansing.

Pediatricians from the Department of Osteopathic Medicine, with second- and third-year osteopathic medical students, offer care to a patient population which is anticipated to exceed 6,000 annually.

The physicians are also providing continuing care for the 500 children who are wards of the Ingham County Probate Court, and are receiving referrals from Medicaid screening programs.

As of September 1, the clinical schedule will include:

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<tr>
<td>Mondays</td>
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<td>Thursdays</td>
<td>L. Schneiderman</td>
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<td>Fridays</td>
<td>Frank Schneiderman, D.O., professor</td>
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Carson City Pediatrics Clinic

A rural clinic in general pediatrics, under the direction of Arthur Kurtze, D.O., associate professor, is run on his farms outside Carson City.

Second- and third-year osteopathic medical students are trained three half-days a week at the clinic, where they may see more than 90 patients each week.

Lansing School District

Assessment of children having academic, emotional or social difficulties in schools is done each Tuesday afternoon by Lloyd Schneiderman, D.O., professor.

Working one quadrant of the Lansing School District each week, Schneiderman and third-year osteopathic clerks provide evaluation services for approximately three children during each visit.

Children are then referred for medical care, social services, psychiatric evaluation or to the learning disability centers.

Sports Physicals Program

More than 1,000 junior and senior high school students in Ingham, Shiawassee, and Clinton County are evaluated each summer by pediatricians from the Department of Osteopathic Medicine to determine fitness for participation in school sports.

The program is held in conjunction with a five-year pilot study on growth and development and athletic-related injuries conducted by Richard Redfearn, Ph.D., assistant professor. Preliminary results of the research were published by Redfearn and Bernard Kay, D.O., professor, in the May 1978 issue of Osteopathic Medicine.

Given with the assistance of second-year students, the physicals include social and behavioral aspects and specific histories of athletic involvements.

Usually conducted on Mondays and Fridays throughout the summer, physicals have been given at Dansville, Bath, Corunna, and Ovid-Elsie Schools.
INTERNAL MEDICINE

Clinics in internal medicine are offered through the Department of Osteopathic Medicine by assistant professor John Gobel, D.O., vice chairman of the Department of Medicine at Ingham Medical Center (IMC).

Approximately eight patients per day are seen by Gobel in clinics held Tuesday and Thursday afternoons at the Clinical Center and Wednesday mornings at IMC.

Patients are referred to the clinics with complaints which commonly include hypertension, diabetes and angina pectoris.

Periodically Unit III students rotate through the internal medicine service. Gobel is also available for consultation and takes call at IMC's emergency room.

OBSTETRICS AND GYNECOLOGY

Specialty care in obstetrics and gynecology is offered Monday and Wednesday afternoons at the Clinical Center by Joseph Walczak, D.O., associate professor in the Department of Osteopathic Medicine.

Advanced techniques such as colposcopy, cryotherapy, and laser are performed at the clinic, which serves approximately 15 to 20 patients each day.

Students and occasionally interns will be assigned to the clinic, Walczak said.

In addition, second-year students go through a 48-hour rotation of observing obstetrical patients at Lansing and Battle Creek hospitals as part of the growth and development curricular segment, which includes OB-Gyn, neonatology and pediatrics.

NEUROLOGY, NEUROSURGERY PROGRAMS

Neurological problems such as headache, pain syndromes, trauma to the head and spinal cord, multiple sclerosis and muscular dystrophy are treated through the Divisions of Neurology and Neurosurgery in the Department of Osteopathic Medicine.

Physicians practicing in the program are neurologist George Ristow, D.O., associate professor, and neurosurgeon Earl Gonyaw, D.O., professor.

Working three or four half-days a week in the specialty care module on the first floor of the Clinical Center, the physicians care for both ambulatory patients and those confined to local hospitals. The outpatient load includes 12 to 16 new patients and 10 to 15 repeat visits weekly, Ristow said.

All appointments are by referrals, which are coming from across the state.

Educational programs include Unit III students on rotation, half-time interns from Lansing General Hospital, and residents in medicine, psychiatry and pediatrics.

CARDIOLOGY CLINIC

A clinic for cardiology patients is conducted one half-day each week by Michael James, D.O., associate professor in the Department of Osteopathic Medicine.

The clinic is held in the specialty care module in the Clinical Center. James also maintains a practice in cardiology at Ingham Medical Center.
DIVISION MEETS MEDICAL NEEDS OF MSU VARSITY, INTRAMURAL ATHLETES

The medical needs of more than 1200 varsity athletes and 23,000 students enrolled in intramural sports at MSU are being addressed by the year-old Division of Athletic Medicine.

Under the direction of the Office of Health Services and jointly supported by the College of Osteopathic Medicine, the College of Human Medicine, and the Director of Intercollegiate Athletics, the division has served more than 4,000 patients since July 1977. These included more than 1200 physical examinations on varsity athletes and approximately 250 major and 325 minor orthopedic procedures.

Located in Olin Health Center, the Division of Athletic Medicine clinic is open from 8 a.m. to 6 p.m. daily, with a physician on call 24 hours daily.

Herbert E. Ross, D.O., associate professor of sports medicine and orthopedics in the Department of Osteopathic Medicine, is acting director of the division. Primary care physicians include Larry Jarrett, D.O., Douglas McKeag, M.D., and David Hough, M.D.

John Downs, D.O., associate professor and a specialist in maxillofacial surgery, is physician for the varsity hockey team, and Richard Redfearn, Ph.D., assistant professor, administers the program. Clint Thompson, coordinator of athletic training and rehabilitation, heads the training staff of four graduate students, eight undergraduates and three certified trainers.

Unit III osteopathic medical students and an M.D., resident presently take rotations through the program.

Ross says that he saw the work of the division as not only including care for athletes, but also the education of coaches, trainers, team physicians and others, including personnel working with high school athletes.

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BIOMECHANICS REFERRAL CLINIC

Consultation on patients with musculoskeletal problems such as back pain or peripheral neurites are handled by four osteopathic physicians from the Department of Biomechanics.

Working one afternoon a week in the Biomechanics Referral Clinic in MSU's Clinical Center are Myron Beal, D.O., professor, Mondays; William L. Johnston, D.O., professor, Tuesdays; Fred L. Mitchell Jr., D.O., professor, Wednesdays; and John P. Goodridge, D.O., professor, Fridays.

In addition to clinical service, the referral clinic was originally developed to create a patient base for teaching and research in the department.

The faculty are active in educating postdoctoral postdoctoral students, visiting clinicians, graduate assistants, and residents as well as participating in the undergraduate sequence in osteopathic examination.

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