

HISTORY

COLLEGE OF MEDICINE

1959 - 1968

CHAPTER - 9

DEPARTMENT OF OBSTETRICS AND GYNECOLOGY

BY

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HISTORY OF THE DEPARTMENT OF OBSTETRICS AND GYNECOLOGY

THE OHIO STATE UNIVERSITY

1959 - 1968

I. INTRODUCTION:

In a previous history of the Department of Obstetrics and Gynecology, Dr. Charles W. Pavey contributed his knowledge of our Department for the preceding twenty-five year period. His personal notes and remembrances are well documented in Volume II of The Ohio State University College of Medicine History. The present writing includes a history of the Department from 1959-1968 (inclusive).

II. HISTORICAL EVENTS IN THE DEPARTMENT BY YEARS:

By 1959 the Department had grown to thirty-four full-time and part-time teachers in addition to a staff of twelve residents in various stages of training. Several changes occurred in the curriculum with emphasis on an increase in didactic lectures in the belief that basic concepts of practice and techniques could be more clearly presented. This was achieved without loss of clinical experience to the student. Introductory lectures to the Sophomore class were given in the Spring Quarter to discuss normal and abnormal obstetrics and gynecology and how to differentiate between them. Students were also assigned to operating rooms in University Hospital to learn pelvic examinations as a part of early patient contact and introduction into clinical medicine.

There was no further contact with students until the Senior year when each student would rotate through both obstetrics and gynecology and, with his experience, would qualify to perform normal obstetrical care as he would encounter in general or family practice. This also applied to gynecology with the idea the student could also recognize the abnormal and seek consultation when advisable.

The intern program still had general rotating interns and surgical interns rotating through both obstetrics and gynecology. Even at this time there was increasing interest in straight intern programs which was opposed by this Department.

Residency training was expanded with more opportunity for experiences in the sub-specialties of gynecologic endocrinology, oncology, infertility, urology, pathology, general surgery, and anesthesiology. In conjunction with the Graduate School, opportunities were offered to each resident for continuing education for further academic study by research and preparation for the Degree of Master of Medical Science. The residents also participated in the teaching of medical students, interns, and in the School of Nursing as well as in the local, state, and national medical meetings.

In 1959 the Department was still located in A-Wing of Starling-Loving Hospital and with the anticipation of the expanding facilities of the North Wing of University Hospital, plans were developed for broad expansion of research programs. These programs were initiated by Dr. Ullery and included areas of gynecologic endocrinology with Dr. Nichols Vorys, who had joined the staff at the completion of his residency at University Hospital

in 1958. Unlimited opportunities for research became available with the cooperation of the late Dr. George Hamwi of the Department of Medicine. Histochemical and histopathology studies in basic research on cancer by Dr. John Boutselis and Mr. Verdi George have continued until the present. The continuation of Perinatal Studies by Dr. James H. Williams and the Departments of Pediatrics, Pathology, and Anesthesia added to our knowledge and improved prenatal care.

The volume of patient care, both clinical and private, reached its highest peak in 1957 and began a gradual decline. In 1959 there were 3,937 deliveries, 1,801 gynecologic operations, 15,331 obstetrical and 8,698 gynecologic out-patient visits. Although gynecologic visits and admissions remained fairly stable, obstetrical visits and deliveries gradually decreased over this ten-year period. Some of this decline was attributed to the birth control "pill" but undoubtedly was influenced by other factors.

In 1959 there were some thirty-three projects under investigation in the Department, and seventeen manuscripts in press or preparation, and nine papers published. Sixteen members of the Department attended or participated in fifty-five local or national scientific meetings.

By 1960 the teaching program for the medical student had been further expanded by the addition of ten new part-time clinical instructors to improve the teaching in the Out-Patient Department of Obstetrics and Gynecology. This expansion provided better coverage for direction, consultation, and individual instruction of the student on his assignments in the Out-Patient

Department. With the demands of a full-time, twelve month obstetrical service, including a four quarter teaching program, consideration was given to relieving on a rotation basis members of the teaching staff at periodic intervals to allow ample opportunity for research projects and graduate education. Student didactic lectures had been modified to present more clearly basic concepts and techniques to the student. Students were again assigned periods of observation on the labor floor for twenty-four hour periods and they were required to write a thesis on the subject of their own choosing during the period of time that they were on the Obstetrical-Gynecologic Service. Many of these original manuscripts were of graduate school caliber and certainly indicated the student's qualification for his Degree of Doctor of Medicine.

In 1960 and 1961 the research program of the Department had received additional stimulus and incentive by the use of the new laboratories on the sixth floor of the new North Wing of the Hospital and laboratories located in Kinsman Hall. It was during this time that Dr. Paige K. Besch was appointed Director of the Steroid Laboratories of Obstetrics and Gynecology and in subsequent years contributed heavily in research areas of gynecologic endocrinology and endocrinology of pregnancy.

In October, 1960, the Department secured the appointment of Dr. Jacoba C. deNeef ^{then} ~~as~~ Associate Professor of Obstetrics and Gynecology at Klinisch Hoger Onderwys Medical School in Rotterdam, Holland, as a Post-Doctorate Fellow in research on vaginal cytology. Her work had been particularly outstanding and had attracted both local and national recognition. She originally

had done her work in Holland and later in Boston, Massachusetts. She continued to develop her techniques at Ohio State on all phases of study in vaginal cytology. Also during this time, Dr. Nicholas J. Teteris, in association with Dr. Jack Stauf, initiated studies on fetal electrocardiography with the assistance of Mrs. Betty McDaniels.

With this expansion, the Department initiated a program of research surgery on laboratory animals following the opening of the ^{Wiseman Hall} Research Center Building. Under the direction of Dr. Zeph J. R. Hollenbeck, all residents participated in a weekly three hour program with instruction in all surgical techniques pertaining to obstetrics and gynecology and abdominal surgery. This undoubtedly has enhanced the knowledge and opportunities for resident training. In addition to surgical techniques, every phase, including pre- and post-operative care, was deemed most important.

The out-patient clinics had continued to function with approximately the same number of annual patient visits; however, the clinics had been expanded to include not only general prenatal, postpartum, and gynecologic clinics but also specialty clinics that included cardiac, diabetic, and other special problem clinics associated with obstetrical care. Gynecologic sub-specialty clinics included cancer, fertility, and gynecologic endocrinology.

In 1961, due to the expansion of facilities and sub-specialization, the Department was divided into "Divisions" with the direction of each assigned to a senior attending man with particular interest in this field. The eight "Divisions", under the direction of the Chairman, Dr. John C. Ullery, and their Directors follow:

1. Endocrinology and Infertility: Dr. Nichols Vorys
2. Steroid Chemistry: Dr. Paige K. Besch; Dr. Roger Barry,
Associate Director
3. Bioassay: Dr. Nichols Vorys; Dr. Lewis Alexander and
Dr. Vernon Stevens, Assistant Directors
4. Cancer Research: Dr. John Boutselis
5. Cancer Clinic: Dr. John Holzaepfel; Dr. Harry Ezell
and Dr. John Boutselis, Co-Directors
6. Perinatal Institute: Dr. James H. Williams
7. Cytology: Dr. Jacoba C. deNeef
8. Obstetrical-Gynecologic Pathology: Dr. Richard L. Meiling

During this period, probably one of the most active divisions was the Steroid Research Laboratories which also included a program that had been established of exchanging basic information with the Chemical Laboratories at Battelle Memorial Institute. Also, at this time, there were joint efforts by the Departments of Physiology and Pharmacology and the College of Veterinary Medicine that entered into an agreement with these laboratories to jointly study the metabolism of steroids in animals.

In 1962 and 1963, again because of expansion of the facilities within the Department, there were changes in the Division Heads and the formation of two special areas of interest and investigation. The Uterine Physiology Directors were Dr. Keith DeVoe, Jr. and Dr. William C. Rigsby. Also, there was the formation of the Adolescent Gynecology Division with Dr. Edward R. Zartman as Director and Dr. Jacoba C. deNeef as Associate Director.

On April 1, 1963, the Department received the first Training Grant in Obstetrics and Gynecologic Endocrinology in the United States. The first trainee was Dr. Richard P. Dickey who started his program July 1, 1963. This program was to provide three years of training in obstetrics and gynecology and an additional year in the laboratory. The first lectures and training lectures in steroids were conducted by Dr. Paige K. Besch and were attended by thirty-five individuals from the entire University. Since Dr. Dickey had been the first trainee, upon completion of his additional year of research, and following two years of duty in the Armed Services, he returned to Ohio State on the faculty in the Department and, in addition, working to complete his requirements for a Ph.D. Degree in Pharmacology. The traineeship has been continually in force since its inception with the addition of one trainee each year in this program.

In 1962 and 1963 visiting professors and lecturers to the Department included: in January, 1963, Dr. Rolland Moore, Associate Professor of Physiology at Royal Free Hospital School of Medicine, London, England; February 20, 1963, Dr. Samuel J. Behrman, Professor of Obstetrics and Gynecology at the University of Michigan Medical School; April 7, 1963, Dr. Joseph W. Goldzieher, Chairman, Southwest Foundation for Research and Education and Professor of Medicine, Department of Endocrinology, University of Texas; July 27, 1963, Dr. Andrew L. C. Schmidt, Chairman, Department of Obstetrics and Gynecology, Rotterdam Medical School, Rotterdam Holland. During 1963 Dr. Franklin C. Hugenberger, instead of his usual vacation, spent the month of June actively working in the African

Maternity Hospital in Nairobi, Africa. From July 1, 1962, through June 30, 1963, there were thirty-one papers published by various members of the Department.

In 1964 distinguished visitors to the Department were: Dr. John A. Loraine, Director of Clinical Endocrinology, Research Unit, Edinburgh, Scotland; in April, 1964, Dr. Jack A. Pritchard, Professor and Chairman, Department of Obstetrics and Gynecology, Southwestern Medical School, University of Texas; in July, 1964, Dr. Roy G. Holly, Professor of Obstetrics and Gynecology, Dean of Graduate School, University of Nebraska. In 1964 there were twenty-one papers published in national journals.

In 1965 the Department showed continued growth and activity in all areas of academic teaching and research. We were fortunate in having, in October, 1965, Dr. Herman Gardner, Clinical Professor of Obstetrics and Gynecology at Baylor University, as a visitor in our Department and during the same month Dr. Robert W. Kistner, Assistant Professor of Obstetrics and Gynecology from Harvard Medical School as a visitor to the Department. In 1966 the first attempts at intrauterine transfusions for Rh compatibility were attempted and during this year there were a total of twenty-four intrauterine transfusions given. This project was under the Division of Uterine Physiology with Dr. William C. Rigsby and Dr. Keith DeVoe, Jr. In addition, this project also included the Departments of Pediatrics, Radiology and Clinical Pathology. There had also been increased research emphasis and clinical applications in the use of fetal electrocardiography under the auspices of Dr. Nicholas J. Teteris who was in

charge of the Division of Fetology and Fetal Electrocardiography. Visiting professors and lecturers to the Department in 1966 were: Dr. Joseph R. Cruse, Research Assistant, Obstetrics and Gynecology Service, Walter Reed Army Medical Center, Washington, D. C. and Dr. Thaddeus Montgomery, Emeritus Professor and Chairman, Department of Obstetrics and Gynecology, Jefferson Medical College, Philadelphia, Pennsylvania.

Twenty-six members of the Department participated in sixty-two international, national and local medical meetings. There were a total of twenty-four publications from the Department and twenty different members of the Department made one or more scientific presentations at various medical meetings throughout the country and various foreign countries. It was also at this time that Dr. James H. Williams received an Alumni Special Achievement Award from his Alma Mater at Otterbein College in Westerville, Ohio. Dr. Ullery received a special plaque and certificate in recognition for the year that he had spent as Secretary of the American College of Obstetricians and Gynecologists. Dr. Hollenbeck was elected to the Board of Governors of the American College of Surgeons at their Annual Meeting in San Francisco, California.

1967 saw an increasing number of visitors to our Department as visiting professors; the first of these was Dr. Gavin Vinson, University of Sheffield, England, who visited the Department in July, 1967; Dr. Ron I. Cox, University of Aderlea, Australia; Dr. Lise Cedard, Maternite de Post-Royal, Paris, France, spoke on "Estrogen Biosynthesis and Metabolism in the Human Placenta" in September, 1967. Dr. Kermit Krantz, Chairman and Professor of the Department of Obstetrics and Gynecology, University of Kansas was a

Visiting Professor who spoke on "Placental Perfusion" in October. Dr. Seymour Lieberman, Columbia P & S, College of Medicine, New York City, spoke on "A New Concept for Steroid Hormone Metabolism" in November. Dr. Giuseppe Benagiano, Department of Obstetrics and Gynecology, University of Rome, Italy, in December spoke on "The Metabolism of Androgens in the Human Fetus". Dr. Robert Ryan, from the Department of Medicine, University of Illinois, Chicago, Illinois, spoke to our Department in February 1967. In 1967 Dr. Richard L. Meiling served as Visiting Professor at the University Medical Faculties of the University of Pretoria, Johannesburg, Capetown and Stellenbosch, all in South Africa and the Medical Faculties at Athens and Salonika in Greece, at Rotterdam in Holland, and the Olga Krankenhaus in Stuttgart, an affiliate of the University of Gottingen, Germany.

Dr. A. C. Crooke, Birmingham and Midland Hospital for Women, Birmingham, England, spoke in March. Other visitors and professors to the Department were Dr. Ralph H. Katham, Department of Medicine, University of Illinois; Dr. A. Rees Midgley, University of Michigan, Department of Pathology; Dr. Kenneth Lawrence, Population Council, New York City; and Dr. Leo E. Reichert, Jr., Department of Biochemistry, Emory University.

In June, 1967, Dr. William E. Copeland was elected Secretary of the Section on Obstetrics and Gynecology for the American Medical Association at its Annual Meeting in Atlantic City, New Jersey. Again, twenty-six members of the Department participated in approximately fifty-four local and national medical meetings. There were twenty-two papers published.

It was during the latter part of 1967 that with continued interest and change of curriculum, both from the medical student standpoint as well as the residency training program, there was a proposal for rather marked changes in the program for teaching in both areas.

The Department had withstood the transition of change from teaching of fourth year medical students to third year students and during the year of the transition we were involved with both third and fourth year students at the same time and managed to survive this period without too much trauma. The new curriculum had changed the quarter system of twelve weeks to approximately eight weeks of instruction, both gynecologic and obstetric, to our third year medical students. We had continued the courses at the second year level of indoctrination to pelvic examination and to physical diagnosis but had deleted the series of lectures during the Spring Quarter of the Sophomore year.

Along with this transition we secured the cooperation of the University affiliated hospitals which included Riverside, Childrens, Mt. Carmel, Grant, and St. Ann's which accepted students on a rotation basis both for formal and clinical instruction in both obstetrics and gynecology at Mt. Carmel, Grand and St. Ann's. During the eight week period the students were assigned in the obstetrical and gynecologic service, four weeks of this was spent at one of the affiliated hospitals and the other four weeks spent at University Hospital. The series of didactic lectures that had been proposed were still given at the University Hospital with additional lectures by part-time staff at the affiliated hospitals.

With a resident staff of approximately sixteen residents in 1967, a program was adopted that had its first full year of operation during 1968. This had prompted a new program for individualized patient care. In former years the clinics were divided into separate areas with obstetrical patients and gynecologic patients being seen in two separate clinics in different

geographical locations. Although the clinics operated simultaneously, many administrative problems arose because of the cross-referrals between the two clinics. This also produced less than ideal patient care and continuity of patient care. At this time we abolished the specialty clinics of endocrinology, infertility, cardiac-obstetric clinic and cancer clinic. In an effort to provide better care, continuity of care and increased student and resident physician responsibility, the two separate clinics, as such, were abolished. Our residency program was altered, both in-patient and out-patient, to adapt to this new concept. Since current medical practice leans toward group structure, four groups of four residents each (one in each level of training) was proposed. Each group would have full clinic responsibility one-half day twice a week. With long hours of work by administrative and clinic personnel, all old and new patients, both obstetric and gynecologic, were assigned to individual residents.

Throughout the year each patient has had her individual physician to direct and care for her individual needs. The gynecologic patient who requires surgery is seen by her personal resident, scheduled for admission, and medical and surgical care in the hospital is managed by the same physician along with the assistance of other residents and students in his group.

The obstetrical patient was followed by the same individual throughout her pregnancy, labor, and delivery. Each resident was personally on call for all his patients, and in his absence others of his own group assumed his responsibility.

In an effort to save patient time in the clinics, a scheduled appointment system was put into effect similar to that which is used on an appointment basis in most physicians' offices. Because there were residents at each level of training, one being lost to the group each year and one gained with incoming new residents, it was felt that continuity of patient care would be maintained.

During the calendar year 1968 there were a total of 18,372 combined clinic visits of which 826 were new admissions. There were 8,395 pre-natal visits and 10,077 obstetric-gynecologic visits.

In this same year the hospital had a total of 1,515 clinic deliveries, of which 55 had inadequate pre-natal care and 144 no pre-natal care.

The Maternal Mortality Study for Franklin County began by two members of the Department of Obstetrics and Gynecology, Dr. R. L. Meiling and Dr. Anthony Ruppertsberg in 1948 and has been continued on an annual basis. In 1956 these two members of the Department collaborated with others in establishing a Maternal Mortality Study for the State of Ohio. Both studies are now recognized Nationally and Internationally as providing outstanding leadership in this field of medicine. The Columbus Obstetrical and Gynecological Society, The Columbus Academy of Medicine and The Ohio State Medical Association have collaborated in supporting these studies in the intervening years. The clinical data and statistics of this monumental study reflect the scientific, professional and sociological changes in obstetrics during the past two decades.

The Gynecologic Tumor Clinic and Registry was started by Dr. Zeph J. R. Hollenbeck in 1941 and with the collaboration in later years of Dr. John H. Holzaepfel,

Dr. Harry E. Ezell and Dr. John D. Trelford has provided a continuous record and follow-up of treated gynecological cancer patients of this Department. Currently, approximately 96% of all patients treated since 1941 are accounted for by follow-up procedure. These statistics have enabled the clinicians to evaluate and continuously improve treatment programs and procedures to the benefit of patients. This Departmental cancer registry was the first at The Ohio State University Hospitals to be approved by the American College of Surgeons.

III GRADUATE PROGRAM: M. M. S. DEGREES

The Residency Program over the ten-year period has included a four-year program of post graduate training including research, teaching, administration, and clinical application. Residents have special assignments in in-patient and out-patient care of both obstetrical and gynecological patients in addition to rotation in general surgery, urology, anesthesiology, pathology, and gynecological endocrinology. During this four-year period each resident is registered in the graduate school for special instruction and selects a topic of his choosing for original research. His work is under the supervision of advisors in the Department and Graduate School.

Upon completion of his project, and a written original thesis, he is examined by the Faculty and is eligible for the degree of Master of Medical Science.

The list of candidates and degrees awarded follow:

MASTER OF MEDICAL SCIENCE DEGREES AWARDED

Jack R. Postle, M. D.	1959
C. Ray Potts, M. D.	1959
Albert Bringardner, M. D.	1959
W. Duane McCarty, M. D.	1960
William L. Driskill, Jr., M. D.	1960
H. C. O'Roark, M. D.	1961
W. C. Rigsby, M. D.	1961
Nicholas J. Teteris, M. D.	1961
William Schamadan, M. D.	1962
Frederick L. Schaefer, M. D.	1962
James R. Bair, M. D.	1962
Andrew W. Botschner, M. D.	1963
Donald G. Jones, M. D.	1963
Ralph E. Kah, M. D.	1963
Harold E. Kelch, M. D.	1965
Richard P. Dickey, M. D.	1965
Frederick G. Dettman, M. D.	1965
John W. Chisholm, M. D.	1966
Douglas O. Clark, M. D.	1966
G. Robert Fitz, M. D.	1966

IV RESEARCH PROGRAM:

The various research interests of the faculty and number of publications by years have been included in the previous General History of the Department. No attempt is made to specifically list titles of all publications, but reference to various clinical divisions will relate areas of interest by faculty members.

The various research grant expenditures over the past five years follow :

GRANT EXPENDITURES
DEPARTMENT OF OBSTETRICS AND GYNECOLOGY
July 1, 1964 to June 30, 1965

Research Equipment		
University Office of Research	\$	1,558.80
Methods for Determining Steroids by Gas Chromatography		
NIH General Research Support Grant		1,780.47
Wyeth Metabolism Fund		
Wyeth Laboratories		2,640.24
Metabolism of SC 11,800 (3B. 17B-Bisacetoxy-17 a-ethynyl-19-nor-4-androstene)		
G.D. Searle and Company		5,166.20
Effect of 11-Oxo Configuration on A-Ring Reduction of Steroids		
NIH General Research Support Grant		4,479.38
Radioactive Steroids Study		
American Medical Association		423.16
Fluorescent Microscopy Screening for Endometrial Carcinoma		
NIH General Research Support Grant		868.98
Chemotherapy of Heterologous Transplanted Endometrial Carcinoma		
American Cancer Society		1,649.50
Estimation of NAD and NADP in the Placenta		
NIH General Research Support Grant		80.90
Vaginal Cytology Study of the Fate of Ovaries Left Behind at the Time of Hysterectomy		
NIH General Research Support Grant		1,003.44
Improving Methods of Estriol Determination to Prevent Intrauterine Death		
NIH General Research Support Grant		58.78

Effect of Estradiol Cream on Post-Radiation Vaginal Mucosa	
Erie County Cancer Society	\$ 471.63
Experimental Gynecologic Surgery	
Ethicon Corporation	5,224.06
pH Homeostasis in the Stressed Premature Infant	
NIH General Research Support Grant.....	139.30
Chondroitin Sulfate in Cervical Tissue	
National Institutes of Health	6,530.13
Role of Adrenal Function in Reproduction of the Rabbit	
Atomic Energy Commission	3,979.21
Bioassay of Luteinizing Hormone	
NIH General Research Support Grant	5,463.00
Drug Evaluation of Valium and Meperadine	
Hoffman-LaRoche INC.	1,328.58
New Progestin Compounds	
Youngs Drug Products Corporation	70,585.76
Obstetrics and Gynecology General Research Funds	
Buelah Koch Memorial Fund	118.30
Julius F. Stone Fund	496.89
Uterine Physiology	
Ayerst Laboratories	3,527.61
Hartford Research Foundation.....	18,166.15
Carbonic Anhydrase in Endometrial Tissue	
National Institutes of Health	11,522.51
Bioassay of Gonadotropins	
NIH General Research Support Grant	4,801.38
Study for the World Population Council	
Rockefeller Institute	12,645.08
Study of Menstrual Dysfunction	
Organon, INC.	3,512.45
The Effect of Injectable Progestins as a Contraceptive	
Squibb and Sons	2,516.05
TOTAL EXPENDITURES, Department of Obstetrics and Gynecology	<hr/> \$170,737.94

GRANT EXPENDITURES
DEPARTMENT OF OBSTETRICS AND GYNECOLOGY
July 1, 1965 to June 30, 1966

Wyeth Metabolism Fund Wyeth Laboratories	\$ 1,444.22
The Role of Estrogens in the Endometrium National Institutes of Health	10,717.33
Metabolism of SC 11,800 G.D. Searle and Company	4,429.37
Catgut Suture Absorption, Tensile Strength and Tissue Reaction Ethicon, INC. NIH General Research Support Grant	1,015.66 1,161.78
Studies of Amniotic Fluid Estrogens NIH General Research Support Grant	NONE
Chondroitin Sulfate in Cervical Tissue National Institutes of Health	8,507.03
Role of Adrenal Function in Reproduction of the Rabbit Atomic Energy Commission	13,445.17
Interim Support for Research Assistant NIH General Research Support Grant	1,025.55
Fetal Electrocardiography NIH General Research Support Grant	46.90
Vacuum Extractor NIH General Research Support Grant	225.00
Estimation of NADS and NADP in the Placenta NIH General Research Support Grant	2,131.73
Studies on Amniotic Fluid Relevant to Potential Diagnostic Aids in Complications of Pregnancy NIH General Research Support Grant	2,463.13
Improving Methods of Estriol Determinations in Order to Prevent Intrauterine Death NIH General Research Support Grant	3,683.25

Significance of Estrogen Excretion Levels in Mothers and Newborns	
NIH General Research Support Grant	NONE
The Premature Onset of Labor	
Hartford Foundation	45,286.04
New Progestin Compounds	
Youngs Drug Products Corporation	7,361.64
Effects of Sex Steroids on Gonadotropins	
Wyeth Laboratories	1,262.21
Antibody Regulation of Ovulation	
G.D. Searle and Company	1,687.51
Wyeth Laboratories Fund	
Wyeth Laboratories	1,600.00
Study of Vaginal Cytology	
NIH General Research Support Grant	3,528.69
Carbonic Anhydrase in Endometrial Tissue	
National Institutes of Health	8,371.15
Gynecologic Tumor Clinic--Analysis of Survivorship	
Erie County Cancer Society	891.52
The Investigation of Quindecamine Acetate as a Topical Antimicrobial Agent in Vaginal Infections	
National Drug Company	4.20
The Effects of Spartocin on Human Musculature	
Ayerst Laboratories	3,003.07
Enduron in Pregnancy	
Abbott Laboratories	NONE
Education, Publication and Research Fund	
Contributions from Attending Staff of the Department of Obstetrics and Gynecology	1,975.92
Effects of Vitamin E Upon Pregnancy	
Silbernagel Fund	610.51
The Evaluation of New and Improved Ovulation Control Drugs	
Medical Research Consultants, INC.	9,526.30
TOTAL EXPENDITURES, Department of Obstetrics and Gynecology	\$135,404.88

GRANT EXPENDITURES
DEPARTMENT OF OBSTETRICS AND GYNECOLOGY
July 1, 1966 to June 30, 1967

The Metabolism of Progestational Agents G.D. Searle and Company	\$ 1,567.51
The Role of Estrogen in the Endometrium National Institutes of Health	12,547.59
Histochemistry of Infertile Endometrium NIH General Research Support Grant	113.00
Studies on Drug Metabolism in the Placenta NIH General Research Support Grant	2,916.00
Significance of Estrogen Excretion Levels in Mothers and Newborn NIH General Research Support Grant	2,688.00
Continuing Studies of Catgut Suture Absorption, Tensile Strength and Tissue Reaction Ethicon Laboratory, INC.	1,931.00
Etiology of the Onset of Labor: Analysis of Amnionic Fluid Steroids NIH General Research Support Grant	123.00
Amniography Studies of Chronic Fetal Distress in High Risk Obstetrical Patients NIH General Research Support Grant	4,937.00
The Metabolism of 24, 25-dihydrolanosterol in Placental Tissue NIH General Research Support Grant	4,297.00
Chondroitin Sulfate in Cervical Tissue National Institutes of Health	24,767.12
Storage of Human Sperm in Liquid Nitrogen NIH General Research Support Grant	1,093.00
New Progestin Compounds Youngs Drug Products Corporation	524.02

The Uterine Pouch as an Incubator for Human Tumors-- A Study of the Effect of Chemotherapeutic Agents and Antibodies on Human Tumor American Cancer Society Institutional Grant	1,533.06
Histochemical Effect of Estrogens and Progesterones on the Endometrium and an Analysis of the Secretions So Produced American Cancer Society Institutional Grant	60.25
The Premature Onset of Labor Hartford Foundation	63,001.00
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TOTAL EXPENDITURES, Department of Obstetrics and Gynecology	\$122,098.55

GRANT EXPENDITURES
DEPARTMENT OF OBSTETRICS AND GYNECOLOGY
July 1, 1967 to June 30, 1968

The Roll of Estrogens in the Endometrium National Institutes of Health	\$ 1,928.47
Metabolism of Enovid and SCII-800 G.D. Searle and Company	514.20
Premature Onset of Labor Hartford Foundation.....	98,581.00
Growth on Human Cancer Tissue The Samuel J. Roessler Memorial Medical Scholarship Fund	1,200.00
Premature Rupture of the Membrane; Its Diagnosis, Management and Treatment The Samuel J. Roessler Memorial Medical Scholarship Fund	1,200.00
Chondroitin Sulfate in Cervical Tissue National Institutes of Health	17,417.28
The Samuel J. Roessler Memorial Medical Scholarship Fund	1,200.00
The Role of Population-Dependent Factors in Altering Adrenal Steroidogenesis and Reproduction in the Cottontail Rabbit in Ohio U.S. Atomic Energy Commission	8,238.92
Reproductive Studies in the Baboon G.D. Searle and Company	32,786.00
Antibodies to Hormones The Population Council -- Rockefeller Univ.	2,965.00
Histochemical Effect of Estrogens and Progesterones on the Endometrium and an Analysis of the Secretions so Produced American Cancer Society Institutional Grant.....	3,501.86
Method of Testing Chemotherapeutic Effects on Human Tumors American Cancer Society Institutional Grant.....	2,400.00

In Utero Injection of Rabbit Fetae with Human Tumor NIH General Research Support Grant	1,546.00
Comparative Cytology of Pathological States NIH General Research Support Grant	1,435.00
Effects of Freeze Storage of Human Sperm NIH General Research Support Grant.....	313.00
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TOTAL EXPENDITURES, Department of Obstetrics and Gynecology	\$173,226.73

V. BIOGRAPHIES IN DETAIL, DRS. ULLERY, MEILING, AND HOLLENBECK

JOHN C. ULLERY, M. D.

On June 29, 1907 John C. Ullery was born in Bradford, Ohio. He received his preliminary education at elementary schools in Bradford, Ohio and in Indianapolis, Indiana from 1913 to 1920. His high school graduation was from Bradford High School in 1924. He then came to The Ohio State University and graduated with a B. A. degree in 1928. During this period of time Dr. Ullery was a varsity football player for the Buckeyes, and following his graduation went on to Philadelphia where he received his M. D. degree in 1932 from Jefferson Medical College. He then took his Internship at Pennsylvania Hospital from 1932-1934 and then a Fellowship in Urology at Miami Valley Hospital in Dayton, Ohio in 1935. From there he returned to Philadelphia to complete his Residency in Obstetrics and Gynecology at the Philadelphia Lying-in Hospital from 1936-1937.

His appointment as Assistant Professor of Obstetrics and Gynecology at Jefferson Medical College came in 1941 and he maintained this position until 1942 when he also became Associate Professor of Obstetrics and Gynecology at the Graduate School of the University of Pennsylvania along with continuing his Assistant Professorship at Jefferson Medical College. From 1936-1954 he was Chief of Service of the Department of Obstetrics and Gynecology at the Philadelphia General Hospital, and from 1936-1954 he was also Chief of Service at the Philadelphia Lying-in Hospital, and Delaware County Hospital, Drexel Hill, Pennsylvania.

In 1954 Dr. Ullery returned to his native state as Professor and Chairman of the Department of Obstetrics and Gynecology at The Ohio State University. Since that time he has seen the development of a Department that was small in 1954 grow into a Department of Obstetrics and Gynecology that is probably one of the largest in the Country. His years in Columbus have been very active having served as Associate Editor of the *Ob-Gyn Digest*, *American Journal of Surgery*, and the *Quarterly Review of Surgery of Obstetrics and Gynecology*. He is the author of four textbooks in the field of Obstetrics and Gynecology and has published 82 papers. In 1941 he became a Diplomate of the American Board of Obstetrics and Gynecology. He has been an Honorary Fellow of National and International Societies of Obstetricians and Gynecologists. He is a Fellow of the American College of Surgeons, The American College of Obstetricians and Gynecologists, and in the latter he served as Secretary of this National organization from 1956 to 1959. He is a Fellow of the International College of Surgeons, the Central Association of Obstetricians and Gynecologists, and a member of State, County, and local medical societies. He is also a member of the Inter-society Cytology Council and was on the Committee for Graduate Education - American College of Surgeons in 1961. He is a member of Sigma Xi and Alpha Omega Alpha. He is a past President of the Obstetrical and Gynecological Travel Club as well as past President of the Central Travel Club of Obstetrics and Gynecology. He is a fellow of the American Association of Obstetricians and Gynecologists and the American Gynecologic Society. He is a National Consultant in Obstetrics and Gynecology

to the Surgeon General of the United States Air Force as well as Area Consultant for the Veterans Administration in Dayton, Ohio and Wright-Patterson Air Force Base Hospital. He has also served as a Consultant for the Cancer Control Program of the United States Public Health Service.

He is a member of The Ohio State University Athletic Association, the Jefferson Medical College Alumni Association, and the Medical Review Club of Columbus. He is a member of the Scioto Country Club, The Columbus Club, and The Ohio State University Faculty Club. In recent years he has received recognition from the State by being appointed by the Governor as Chairman of the Governor's State Supported Education Review Committee in 1967, and the Chairman of the Comprehensive Health Planning Council of the State of Ohio, and the Chairman of the Task Force on Vocational and Technical Education Committee for the State of Ohio. All of these honors have been bestowed upon him by Governor James A. Rhodes. In 1969 he was given the highest honor the State of Ohio can bestow: the "Governor's Award" for "The Advancement of the Prestige of Ohio".

In his earlier years in Philadelphia, when he found time, he developed considerable interest in fishing and in golfing. More recently his leisure time has been given to the hobby of golfing and an intense study of the game as one of his main interests and hobbies.

RICHARD L. MEILING, M. D.

Richard L. Meiling was born December 21, 1908 in Springfield, Ohio. He received his A. B. degree from Wittenberg University in 1930. He attended Jefferson Medical College, the Medical Faculty of both Erlangen University and the University of Munich in Germany. He did special studies in pathology in the Medical Faculty of the University of Bern Switzerland. He received his degree "Doctor of Medicine" with honors from the University of Munich in 1937, based upon his original research work on the source of Vitamin C in the daily diet. In 1938 he served as a surgical intern at the University Hospital (Columbus). Later he was a post-doctoral student at White Cross Hospital (Columbus), University Hospitals, and City Hospitals of Cleveland. During 1946-1947 he was a demonstrator, Department of Obstetrics and Gynecology, Western Reserve University. He received his certification as a Diplomate in Obstetrics and Gynecology in 1947. In July 1947 he was appointed Assistant Professor of Obstetrics and Gynecology, The Ohio State University Hospitals, and Instructor, Department of Pathology. In 1951 he was appointed as Associate Professor, Department of Obstetrics and Gynecology and in 1953 Professor of Obstetrics and Gynecology; in 1954, Professor of Aviation Medicine in the Department of Preventive Medicine; in 1968, Professor, School of Allied Medical Professions, Hospital Administration.

Dr. Meiling was a founding member of the American College of Obstetrics and Gynecology. He is a former member of the Board of Governors, American College of Surgeons; a member of the Central Ob-Gyn Association; the Central Ob-Gyn Travel

Club; former President, Columbus Obstetrical and Gynecological Society; President of the Ohio State Medical Association 1956-1957; Treasurer of the Ohio State Medical Association 1952-1956. He was a member of the House of Delegates of the American Medical Association for more than 17 years. He is also a Fellow of the Aero-Space Medical Association.

Dr. Meiling has been recognized by an Honorary Degree of Doctor of Science from Wittenberg University and by being awarded the "Taler" which is an Honorary Membership in the Medical Faculty of the University of Munich.

ZEPH J. R. HOLLENBECK, M. D.

Zeph J. R. Hollenbeck was born December 26, 1908 in Madison, Indiana, the son of John B. Hollenbeck and Jean F. Reid Hollenbeck.

At the present time he is a Professor in the Department of Obstetrics and Gynecology, College of Medicine, The Ohio State University, an appointment he has held since 1952.

He received his undergraduate education at Bismark, North Dakota High School in 1926; he attended the University of North Dakota and the University of Nebraska, and then enrolled at The Ohio State University in 1929. He received his Bachelor of Arts degree at The Ohio State University in 1931, completed his course of medical education at The Ohio State University, and graduated with his M. D. degree in 1935 Summa Cum Laude. From Columbus Dr. Hollenbeck went to Henry Ford Hospital, Detroit, Michigan for his Internship and remained there for his Assistant Residency in Surgery and also his Assistant Residency in Obstetrics and Gynecology with a Senior Residency from 1935 to 1939. He again returned to The Ohio State University Hospital as a Resident in Gynecology from 1939-1940. He was appointed an Instructor in Gynecology at The Ohio State University Hospital in 1940-1942; then became an Assistant Professor in Obstetrics and Gynecology. From 1948-1952 he was an Associate Professor in the Department of Obstetrics and Gynecology and in 1952-1954 was Acting Chairman of the Department. He was appointed Professor of Obstetrics and Gynecology in 1952 and was also a Visiting Professor of Obstetrics and Gynecology in Cincinnati, Ohio in February, 1963.

He holds teaching appointments and hospital affiliations as Chief of Staff at St. Ann's Hospital in Columbus and attending obstetrician and gynecologist at University Hospital, Mount Carmel Hospital, and Riverside Methodist Hospital. In addition he is a consultant at Children's Hospital and a consultant in Obstetrics and Gynecology at Wright-Patterson Air Force Base Hospital and Veterans Hospital in Dayton, Ohio.

He was made a Diplomate of the American Board of Obstetrics and Gynecology in 1942; became a member of the American Medical Association, a Fellow of the American College of Surgeons, and at the present time is a member of the Board of Governors. He is a member of the Central Association of Obstetricians and Gynecologists and in the Central Association he was a Vice President in 1956 and on the Executive Committee from 1953-1955 and its President in 1963. He is a Fellow of the American College of Obstetricians and Gynecologists, and was Chairman of the Ohio Section of the American College of Obstetricians and Gynecologists in 1958-1960; a Founding Member and first President of the Columbus Obstetric and Gynecologic Society in 1944. He is a member of the American Federation for Clinical Research and was Chairman of the Section of Obstetrics and Gynecology, Ohio State Medical Association in 1957. He is also a member of the American Association of Professors of Obstetrics and Gynecology. His honorary societies are Alpha Omega Alpha and Sigma Xi. His current clinical interests and research projects are primarily devoted to the treatment of Clinical Stage I and II Carcinoma of the Cervix with Intracavitary Irradiation followed by a Radical Wertheim Hysterectomy. He has

been a contributor to five different textbooks in the field of Obstetrics and Gynecology as well as making additional contributions to medical literature of 18 articles.

On June 15, 1935 he married Elizabeth Rowe Jones and subsequently they had two children, the oldest which is Jane Hollenbeck Chisholm, now residing in Denver, Colorado. Jane married John W. Chisholm, a former Resident in Obstetrics and Gynecology at The Ohio State University Hospital. The youngest of their family is John who graduated from The Ohio State University College of Medicine in 1968 and is currently serving a Residency in the University of Florida Hospital, Gainesville, Florida, and plans specializing in General Surgery.

Dr. Hollenbeck's main hobbies are hunting and fishing: a good part of his leisure time, in the Fall, is devoted to his "home away from home" in Aspen, Colorado. In addition, he is vitally interested in organizing and arranging trips to the Grand Hotel Hunt Club located near Rifle, Colorado.

M BIOGRAPHICAL DATA

ANDERSON, DAVID G.

B.S. and M.S., Univ. of Alberta 1957; Ph.D., Univ. of Minn. 1966;
Asst. Prof. 1967 -

BARNES, LLOYD W.

B.A., OSU 1944; M.D., OSU 1947; M.M.Sc., OSU 1956; Instr. 1956;
Asst. Prof. 1965 -

BARRY, ROGER D.

B.S., Univ. of Cinn. 1957; Ph.D., Univ. of Cinn. 1960; Instr. 1961-1962;
Asst. Prof. 1962-1966

BESCH, PAIGE K.

B.S., Trinity Univ. 1956; Ph.D., OSU 1960; Instr. 1960-1962; Asst. Prof.
1962-1966; Assoc. Prof. 1966-1968

BOUTSELIS, JOHN G.

A.B., St. Anslem's College 1943; M.D., St. Louis Univ. 1947; M.M.Sc.,
OSU 1957; Instr. 1957-1962; Asst. Prof. 1962-1966; Assoc. Prof. 1966 -

COPELAND, WILLIAM E.

B.S., Marshall College 1942; M.D., Med. College of Virginia 1945; Asst.
Prof. 1953-1961; Assoc. Prof. 1961 -

COX, DANA W.

B.A. Muskingum College 1923; M.D., Western Reserve Univ. 1928; Instr.
1940-1942; Asst. Prof. 1942-1945; Assoc. Prof. 1945-1957; d. 1967

CRAWFORD, JOHN W.

M.D., Univ. of Glasgow 1955; MRCOG(Lon) 1963; Asst. Prof. 1967-1968

DALY, ROBERT F.

A.B., Wabash Coll. 1929; M.D., OSU 1937; Asst. Prof. 1943-1952;
Assoc. Prof. 1952-1965; Prof. 1965 -

DAVIS, FRANCIS W.

B.S., OSU 1923; M.D., OSU 1925; Instr. 1929-1934; Asst. Prof. 1934-1956;
Asst. Prof. Emer. 1956 -

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M.D., Univ. of Leiden 1954; Ph.D., Univ. of Leiden 1956; Asst. Prof.
1961-1968

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B.A., OSU 1951; M.D., OSU 1955; Instr. 1961-1965; Asst. Prof. 1965-

EZELL, HARRY E.

B.S., Texas A. & M. College 1941; M.D., Vanderbilt Univ. 1944; Instr. 1951; M.M.Sc., OSU 1952; Asst. Prof. 1954-1965; Assoc Prof. 1965-

FLETCHER, FRED

M.D., Jefferson Med. College 1900; Instr. 1914-1916; Asst. Prof. 1916-1925; Prof. 1925-1945 of Gynecology, Dept. of Surgery; Prof 1945-1951; Prof. Emer. 1951-1962; d. 1962.

GALLAGHER, FRANCIS W.

M.D., OSU 1940; Instr. 1953-1965; Asst. Prof. 1965 -

HAPKE, FRED B.

B.S., Knox Coll. 1933; M.D., Northwestern Univ. 1939; Instr. 1949-1954; Asst. Prof. 1954-1965; Assoc. Prof. 1965 -

HOLLENBECK, ZEPH J.R.

B.A., OSU 1931; M.D., OSU 1935; Instr. 1940-1943; Asst. Prof. 1943-1949; Assoc. Prof. 1949-1953; Prof. 1953-; Acting Chairman 1953-1954

HOLZAEPFEL, JOHN H.

A.B., Univ. of Mich. 1941; M.D., Univ. of Mich. 1944; M.M.Sc., OSU 1946; Instr. 1948-1951; Asst. Prof. 1953-1961; Assoc. Prof. 1961 -

HUGENBERGER, FRANKLIN C.

B.A., OSU 1925; M.D., Harvard Univ. 1930; Instr. 1942-1945; Asst. Prof. 1945-1949; Assoc. Prof. 1949 -

JACOBY, BEN E.

A.B., Ohio Wesleyan Univ. 1936; M.D., Western Reserve Univ. 1940; Instr. 1952-1954; Asst. Prof. 1954 -

KEYS, HARRY J.

B.A., OSU 1937; M.D., OSU 1941; Instr. 1949-1954; Asst. Prof. 1954 -

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B.A.; OSU 1950; M.A., OSU 1952; M.D., OSU 1959; Asst. Prof. 1968 -

McLAIN, CLARENCE R.

B.A., Univ. of North Carolina 1951; M.D., Univ. of North Carolina 1955; Asst. Prof. 1966-1967

MEILING, RICHARD L.

A.B., Wittenberg Coll. 1930; M.D., Univ. of Munich 1937; Asst. Prof. 1947-1949; Assoc. Prof. 1951-1953; Prof. 1953 - ; Associate Dean 1951-1960; Dean 1961 -

MERRYMAN, WILLIAM E.

B.A., OSU 1944; M.D., OSU 1947; M.M.Sc. OSU 1955; Instr. 1955-1965; Asst. Prof. 1965 -

NERI, ANTHONY S.

B.A., OSU 1952; M.D., OSU 1956; Instr. 1964-1967; Asst. Prof. 1967 -

NORRIS, JAMES W.

B.A., OSU 1930; M.D., OSU 1935; Instr. 1947-1948; Asst. Prof. 1954-1962

PATTERSON, JAMES B.

A.B., College of Wooster 1932; M.D., OSU 1937; Instr. 1952-1954; Asst. Prof. 1954-1967

PAVEY, CHARLES W.

B.S., OSU 1926; M.D., OSU 1928; Instr. 1932-1937; Asst. Prof. 1937-1945; Assoc. Prof. 1945-1965; Prof. 1965-1967; Prof. Emer. 1967 -

REEL, PHILIP J.

D.V.M., OSU 1911; M.D., OSU 1915; Instr. 1927-1929; Asst. Prof. 1929-1932; Assoc. Prof. 1932-1938; Prof. 1938-1945, of Gynecology, Dept. of Surgery; Prof. 1945-1961; Chairman 1945-1947; Emer. 1961 -

RIGSBY, WILLIAM C.

B.S. Purdue Univ. 1952; M.D., OSU 1957; M.M.Sc., OSU 1962; Instr. 1958-1965; Asst. Prof. 1965 -

RUPPERSBERG, ANTHONY JR.

B.S., Lafayette Univ. 1929; M.D., Jefferson Med. Coll. 1933; Instr. 1952-1954; Asst. Prof. 1954-1965; Assoc. Prof. 1965 -

RUSSELL, PAUL T.

B.A., Univ. of Calif. 1959; M.S., Univ. of Oregon 1961; Ph.D., Univ. of Oregon 1963; Asst. Prof. 1966-1968

SCOTT, WENDELL P.

B.S., Univ. of Illinois 1938; M.D., Univ. of Illinois 1941; Instr. 1947-1954; Asst. Prof. 1954-1965; Assoc. Prof. 1965 -

SILBERNAGEL, WYNNE M.

B.S., Denison Univ. 1926; M.D., Jefferson Med. Coll. 1930; Instr. 1954-1956; Asst. Prof. 1956 -

STEDEM, EDWIN J.

B.S., Dubuque Coll. 1917; M.D., Western Reserve Univ. 1921; Instr. 1933-1939;
Asst. Prof. 1939-1962

STEVENS, VERNON C.

B.S., Colorado State Univ. 1957; M.S., OSU 1958; Ph.D. OSU 1962; Instr.
1962-1964; Asst. Prof. 1964-1967; Assoc. Prof. 1967 -

TETERIS, NICHOLAS J.

B.A., Wash. and Jefferson Coll. 1950; M.D., OSU 1954; M.M.Sc., OSU 1961;
Instr. 1961-1965; Asst. Prof. 1965-1967; Assoc. Prof. 1967 -

TOWNSLEY, JOHN D.

B.Sc., Univ. of Leeds, England 1958; Ph.D., Univ. of Leeds, England 1961;
Asst. Prof. 1968 -

TRELFORD, JOHN D.

M.D., Univ. of Toronto 1956; FRCS (C) 1963; MRCOG(Lon) 1964; FACOG 1965;
Asst. Prof. 1965 -

ULLERY, JOHN C.

B.A., OSU 1928; M.D., Jefferson Med. Coll. 1932; Prof. and Chairman 1954 -

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B.S., Dartmouth Univ. 1948; M.D., Jefferson Med. Coll. 1953; M.M.Sc.,
OSU 1958; Instr. 1957-1962; Asst. Prof. 1962-1966; Assoc. Prof. 1966-1968

WILLIAMS, JAMES H.

A.B., Otterbein Coll. 1944; M.D., OSU 1946; M.M.Sc., OSU 1952; Instr.
1951-1956; Asst. Prof. 1956-1961; Assoc. Prof. 1961 -

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B.A., Ohio Wesleyan Univ. 1943; M.D., OSU 1946; M.M.Sc., OSU 1953;
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M.D., Univ. of St. Andres 1957; Instr. 1961-1962

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- BUSBY, JONATHAN G.
M.D., OSU 1947; Instr. 1959-1961
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- DICKEY, RICHARD P.
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B.S., Univ. of Dayton 1932; M.D., Univ. of Cincinnati 1935; Instr. 1961 -
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M.B., B.Ch., B.A.O., Univ. College of Dublin 1951; Instr. 1961 -

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B.S., Capital Univ. 1952; M.D., OSU 1956; M.M.Sc., OSU 1963; Instr.
1963-1964

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B.A., Ohio Univ. 1953; M.D., Univ. of Cincinnati 1957; Instr. 1965 -

VILLALON, ROBERTO R.

B.A. and B.S., Santiago de Cuba 1942; M.D., Univ. of Havana 1951; M.D.,
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B.A., OSU 1946; M.D., OSU 1951; Instr. 1961 -