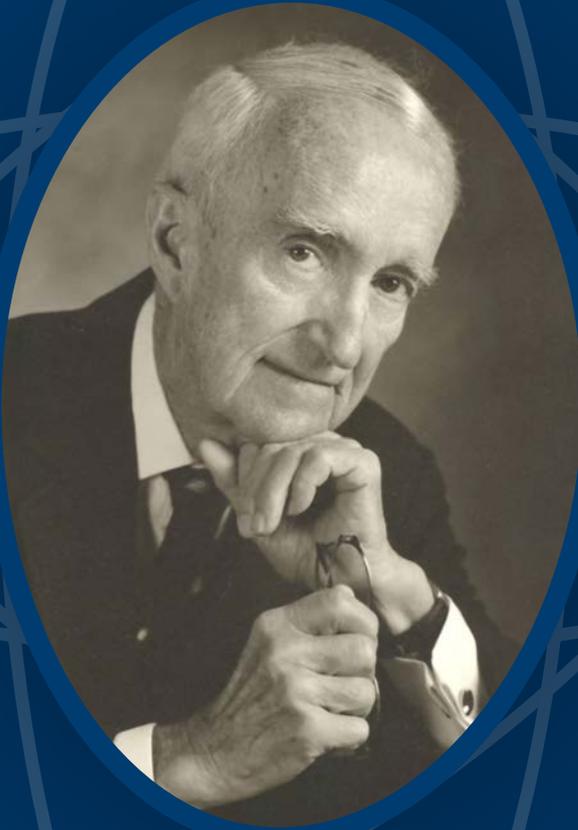




University of Michigan  
Health System



**William H. Beierwaltes Endowment  
OF NUCLEAR MEDICINE IN RADIOLOGY**

*"It is difficult to place into words the charisma that leaders like Dr. Beierwaltes have for inspiring young people to follow their example." — Thomas P. Haynie, MD*

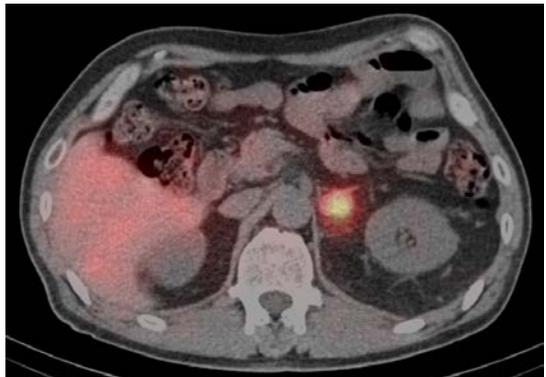
## A Dedicated Educator

- Dr. Beierwaltes organized one of the first university programs for nuclear medicine training.
- He mentored hundreds of physicians and physicists in training and inspired many to pursue careers in nuclear medicine through his teaching skills, boundless enthusiasm and the close personal interest he took in "his" students.
- He is remembered as an outstanding and dedicated educator of clinicians and innovative investigators.

## A Visionary in Functional Adrenal Imaging

Dr. Beierwaltes was the driving force behind the development of two unique radiopharmaceuticals for adrenal imaging:

- Instrumental in the development of <sup>131</sup>I radiocholesterol and NP-59 for functional imaging of the adrenal cortex.
- Co-inventor of meta-iodobenzylguanidine (MIBG), a guanethidine analog, for imaging of adrenomedullary tumors.
- These radiopharmaceuticals radically transformed the diagnostic approaches to adrenal and extra-adrenal diseases such as pheochromocytoma, neuroblastoma and the differentiation of adrenal cortical lesions.
- Through molecular imaging with <sup>131</sup>I and <sup>123</sup>I MIBG, Dr. Beierwaltes paved the way to PET imaging using receptor-binding agents.



*Contemporary SPECT-CT <sup>123</sup>I MIBG imaging of a left adrenal pheochromocytoma*

# William H. Beierwaltes:

## Pioneer in Nuclear Medicine and Molecular Imaging

To honor William H. Beierwaltes' pioneering work and many contributions to the field of nuclear medicine, the Department of Radiology has embarked on a campaign to establish the William H. Beierwaltes Endowment of Nuclear Medicine in Radiology.

### A Leader in Development of Thyroid Cancer Therapy with Radioiodine

- Dr. Beierwaltes was a pioneer in the use of radioiodine ( $^{131}\text{I}$ ) for thyroid disease.
- He was among the first to use radioiodine for the diagnosis and treatment of thyroid cancer and became a national authority for this technique.
- The treatment of thyroid cancer with  $^{131}\text{I}$  was widely adopted following the 1957 publication of "Clinical Use of Radioisotopes" the first book on clinical nuclear medicine practice, co-authored by Dr. Beierwaltes.
- $^{131}\text{I}$  therapy has stood the test of time for over 50 years and remains the standard of care world-wide.



*Diagnostic radioiodine scan of thyroid cancer showing lung and bone metastases. Dr. Beierwaltes advanced the technique of radioiodine for diagnosis and therapy.*

### A Founder of Molecular Imaging

- The radiopharmaceuticals developed under Dr. Beierwaltes' leadership are among the first molecular imaging agents to visualize biologic processes at the cellular and subcellular levels.
- His success in grant funding led to a variety of projects, facilities and infrastructure that fueled the rapid advancement of nuclear medicine research at the University of Michigan. A National Institutes of Health grant provided the initial funding for U-M's PET center and medical cyclotron.
- Dr. Beierwaltes was a prolific author of a large number of important publications. He wrote or coauthored more than 300 scientific papers, 4 books, and 77 book chapters.

# William H. Beierwaltes, MD

## 1916-2005

Dr. Beierwaltes has been recognized for his contributions by numerous professional societies and institutions.

- 1941 M.D. degree, University of Michigan
- 1945 Faculty member, University of Michigan
- 1946 Attends first Oak Ridge (TN) Laboratory course on radioisotopes
- 1952-59 Director of newly formed Clinical Radioisotope Service
- 1954-55 President of American Federation for Clinical Research
- 1957 Publishes "Clinical Use of Radioisotopes" - first text of clinical nuclear medicine practice (coauthors Johnson and Solari)
- 1959-86 Director of newly designated Division of Nuclear Medicine
- 1960s Forms clinical nuclear medicine training program, one of the first in US
- 1965-66 President, Society of Nuclear Medicine (SNM)
- 1966-67 Guggenheim Fellowship
- 1967 Commonwealth Fund Award
- 1969 Consultant to World Health Organization
- 1974 Distinguished Fellow, American College of Nuclear Medicine
- 1982 Georg de Hevesy Nuclear Medicine Pioneer Award, SNM
- 1982 Distinguished Faculty Award, University of Michigan
- 1982 Consultant to National Academy of Sciences
- 1984 Delivers keynote address to NATO's Advanced Studies Institute, Italy
- 1987 Emeritus Professor, University of Michigan
- 1994 Scientific Achievement Award, American Medical Association

*"Training under Dr. Beierwaltes has left a lasting impression on me and many other residents and fellows. His infectious enthusiasm, energy, positive outlook and 'can do' attitude were inspiring. He actively encouraged and promoted the careers of his trainees, believing that their success reflected on his own and deriving great pleasure from their achievements." — Lorraine M. Fig, MD*

## **MOLECULAR IMAGING RESEARCH: The University of Michigan Tradition**

An endowment that builds upon Dr. Beierwaltes' exceptional career in nuclear medicine at the University of Michigan Hospital and Health Systems will be an enduring legacy that will enable important future advances in the field. Through this endowment we recognize and honor Dr. Beierwaltes' exceptional service to patients, trainees and the profession.

The Endowment will establish an annual lectureship in Dr. Beierwaltes' name to attract outstanding teachers and leaders in the field as speakers. The Endowment will also provide ongoing support to faculty members, allowing them to focus on expanding clinical, educational, and research programs in Nuclear Medicine.

To learn how you can honor the contributions of Dr. Beierwaltes, please contact Alisha Faciane at (734) 232-3248 or at [affenty@umich.edu](mailto:affenty@umich.edu).

Please join us in honoring Dr. Beierwaltes' legacy through a gift to the William H. Beierwaltes Endowment of Nuclear Medicine in Radiology.

**Department of Radiology  
Development and Alumni Relations  
1121 Cardiovascular Center  
1500 E. Medical Center Drive, 5873  
Ann Arbor, MI 48109-5873  
734.232.6402**

*"Dr. B was the greatest! I always enjoyed interacting with him. He loved nuclear medicine and loved those who loved nuclear medicine. He was perpetually enthusiastic . . . Whenever I see a picture of Dr. B, I always smile and remember how much I enjoyed just being around him." — Barry L. Shulkin, MD*

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James E. Carey, Jr.  
James H. Thrall, MD

### **Committee Members**

Nicolaas I. Bohnen, MD, PhD  
James E. Carey, Jr.  
Lorraine M. Fig, MD  
John E. Freitas, MD  
Kirk A. Frey, MD, PhD  
Milton D. Gross, MD  
James C. Sisson, MD  
Barry L. Shulkin, MD

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