

**BURCH CLINIC**

2112 WEST END AVENUE

NASHVILLE 5, TENN.

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JEM

Mr. John E. Bowyer  
Senior Licensing Reviewer  
Isotopes Branch  
Division of Licensing and Regulations  
Atomic Energy Commission  
Washington 25, D. C.

Dear Mr. Bowyer:

Re: DLR: IB: JEM (41319)

Mr. Charles Roos, of the Department of Physics, Vanderbilt University, has asked me to submit information to you about my radiation experience in the form of a curriculum vitae. I believe a letter would serve the purpose a good deal better.

I graduated from Vanderbilt University Medical School in 1923 and had two years of hospital training followed by a Fellowship from the Rockefeller Foundation in Europe for one year. Following this, I returned to Nashville and entered the Department of Obstetrics and Gynecology, where I have had an appointment since that time. I became a full professor in 1942.

My connection with radiation, with one exception, has been in the development of a satisfactory treatment method for pelvic malignancies. I was the first in the institution to advocate and did much to establish the system of physical controls which has now developed in the medical school in connecting clinical calibration of the combined dose of x-ray and radium in treatment of carcinoma of the cervix. Later, in 1940, I became interested with Professor Newton Underwood, of the Department of Physics, and at this time, secured funds and assisted in the building of the first Geiger counter at Vanderbilt University. Isotopes were not available at this time but Dr. Underwood undertook an experimental investigation of the elimination of radon gas from the lungs and this, I believe, was the first paper of this type from Vanderbilt. Shortly after the publication of this paper, the war came on and, when I returned, I was elected a member of the Isotope Committee and have served in that capacity ever since.

My own radiation experience has been limited to the treatment of approximately 700 cases of cancer of the cervix with radium and x-ray.

I hope this gives you the information that you need and if I can be of further assistance, I will be happy to do so.

Sincerely yours,

*John C. Burch*

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