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Feb. 7, 1994

James L. Milhoan, Regional Administrator  
 United States Nuclear Regulatory Commission  
 Region IV  
 611 Ryan Plaza Drive, Suite 400  
 Arlington, TX 76011-8064

*Dkt. 30-00503*

Dear Mr. Milhoan:

Enclosed you will find my analysis of the Dallas VA situation as the Medical Consultant Report. I spoke directly with Ms. Kasner and sent a FAX in October which has been expanded in this final report. I have been involved with a number of evaluations involving external beam treatment and brachytherapy this past year for the NRC in addition to the inquiry into the radioactive medical studies done at the University of Chicago AEC facility.

The NRC in Washington D.C. understands that I am also on an NIH study section which meets 3 times a year.

Some of the documents didn't fit this particular situation such as the Health Surveillance Long Term Medical Study Program form.

I think that as the ICRU report 50 is used to communicate the prescription and is used in the reporting within centers and between centers we will see a significant improvement in cancer management by radiation therapy.

Please contact me if you have any questions.

Sincerely yours,

Melvin L. Griem - Member ACMU, NRC

*Attached - Form 448 - shows effort.  
 Report.*

*94-0517*

*IE-07  
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To: Mr. James L. Milhoan, Regional Administrator  
Ms. Linda Kasner, Senior Radiation Specialist  
Mr. Charles L. Cain, Jr., Radiation Specialist  
NRC Region IV FAX 817-860-8188

From: Melvin L. Griem, MD, MS, (physics)  
University of Chicago, ACMU, NRC  
Phone Discussion 8/30/93  
Notice Dated 9/8/93 Received 9/14/93  
Most recent material from Dallas VA - 10/13/93  
Phone report 10/21/93

Final Report: Feb 7, 1994

Signed: 

Re: Radiation Therapy of patient with Epidemic Kaposi's  
Sarcoma of lower extremities using fractionated Co-60  
external beam radiation therapy.

1. Description of the Incident:

I have reviewed the written directive dated 2/10/92 which contains the history of the patient's disease and the previous treatment of the lesions by Dr. John Badfield on 7/31/91. A single treatment of 8 Gy was given with a Co-60 machine. It is also noted that the lesions were progressing rapidly on the feet and legs and that treatment was planned for the delivery of a tissue dose of 2 Gy per fraction for 10 treatments (fractions). The planned total dose for the new course of treatment was 20 Gy.

Treatment was initiated on 2/11/92. A note also dated 2/11/92 at 10:35 AM suggests an additional Co-60 treatment to the extremities was given in San Antonio in 1990. A note dated 2/13/92 says 400 rads so far - initials unclear. On 2/14/92 Dr. B. Middleton stops treatment and treatment is checked by Dr. Bourman. Additional notes are dated 2/18/92, 2/24/92 and a completion note on 2/26/92. The summary states a "TD" (tumor dose) of 2230 cGy in 11 fractions of 200 cGy using 0.5 cm bolus. There is a description of the two adjacent area being treated on each of the legs, consisting of both feet and both lower legs.

A follow-up visit on 3/18/92 has a statement "Remarkable" response to treatment.

Phone follow-up on 4/15/92 says patient has "given up". On 4/18/92 patient expires with "disseminated" visceral involvement. There is no indication that an autopsy was performed.

On 2/14/92 the error in treatment was found where the



