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IN REPLY
REFER TO: H-10

May 23, 1973

Dr. C. Sternhagen
University of New Mexico Cancer Center
Albuquerque, NM 87106

MES-200

Dear Dr. Sternhagen:

As I have discussed with you, I am very much interested in following DNA distribution of tumor cells from patients undergoing radiotherapy treatment. Preliminary studies on human tumors done by this group indicate that there are significant variations in DNA content in different human tumors. It will be easier to see the changes if the DNA content of the tumor cell is substantially higher than in normal tissues. Hence we feel that the tumors of interest, at least for the preliminary studies, will be adenocarcinoma of the cervix and transitional cell carcinoma.

We need samples containing at least a few million cells before treatment, during treatment and after the termination of the treatment.

I will be coming soon to see you and Dr. Kligerman. Dr. Paul Horan will be with me. He has done some work already on human tumors. We can then discuss the details of the sample preparation. We will plan in such a way that it should not take too much of your time. This procedure should not cause any discomfort to the patient.

We feel that this instrumentation could be of potential value in radiotherapy.

I'm looking forward to seeing you.

Sincerely,

M. R. Raju
Biophysics and Instrumentation Group

MRR:hb

Xc: Dr. M. Kligerman
Dr. P. K. Horan, H-10

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