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2. ISD-5 MS-150 *hoy*

IN REPLY
REFER TO:
MAIL STOP:

May 9, 1977

Mr. M. Blumenfeld
General Electric
Medical Systems Division
P.O. Box 414
Milwaukee, Wisconsin 53201

MS-200

Dear Mr. Blumenfeld:

At the suggestion of Dr. Kenneth Hogstrom following his conversation with you, I am writing to request the data format used with magnetic tapes on General Electric CT scanners.

As you may be aware, we are working with the Cancer Research and Treatment Center, University of New Mexico, Albuquerque in preparing for clinical trials of Cancer-Therapy using pi-mesons at the Clinton P. Anderson Meson Facility in Los Alamos. In fact, three of our pre-clinical trial patients were scanned with the G.E. Machine at U.C. San Francisco.

One of the unique characteristics of pi-mesons is their predictable range (ie, a relatively low probability of being lost by in-flight interactions). Thus if one knows the type and extent of tissues between the skin surface and a tumor, the pion beam and bolus can be adjusted to maximize the number of pions stopping in the tumor. CT data is then the best type of data for use in our pion treatment-planning program, PIPLAN. It provides the precision required and, via magnetic tape, a convenient form of input.

I also wish to emphasize that we are engaged in a purely research effort funded primarily by the National Cancer Institute and that the treatment planning techniques which we are developing are specialized for pi-mesons. Obtaining detailed formats would be of significant benefit to this project.

Thank you for your assistance.

Sincerely,

Peter A. Berardo ✓

Peter A. Berardo, Ph.D
Treatment Planning, MP-3
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