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THE UNIVERSITY OF NEW MEXICO

DATE: July 12, 1979

TO: Al Smith  
FROM: Ken Hogstrom *KH*  
SUBJECT: IN-VIVO DOSIMETRY

REPOSITORY LANL/ARC  
COLLECTION MP-DO  
BOX No. A-91-011  
FOLDER 85-13

I now feel confident that we can use TLD-700 to measure total dose ( $\pm 10\%$ ) and aluminum activation to measure high-LET dose ( $\pm 5\%$ ) in patients. I have designed what I consider a dedicated clinical set-up of the apparatus required for these measurements. In addition I have designed an in-vivo dosimetry phantom for the calibration of the measuring systems.

A manual has been written containing explanations and clinical forms to be used in the three methods of in-vivo dosimetry; ionization chamber, TLD-700, and aluminum activation. Please feel free to use these systems for in-vivo patient dosimetry as needed. I hope these can be used prior to my leaving so that I may consult on any problems related to their clinical use.

cc: M.M.Kligerman  
M.A. Bagshaw  
J.N. Bradbury  
A. Pannell  
UNM Physics Group

KRH/mt

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