BOLUS MATERIAL

INTRODUCTION TO ELASTO-GEL™ BOLUS MATERIAL

Elasto-Gel™ has been reported to be an excellent bolus material. It has many desirable properties that make it suitable for use in this application. F. Chang', et al, from the North Shore Medical Center (FL) reported in his pre-published paper in 1989, "The requirement of an ideal bolus material has been suggested by Moyer', et al, as: We believe it should meet the following criteria:

(a) It has tissue equivalent properties
(b) It is made of safe materials approved by FDA
(c) It is flexible enough to have good contact with the skin surface
(d) It is transparent enough that the skin mark can still be seen
(e) It is convenient to be used daily and preferably available in commercial packages
(f) It is not much affected in properties and appearance after high doses of radiation."

Elasto-Gel™ "satisfies the criteria mentioned above with a small price tag when compared with the other bolus materials on the market at the present time."

More recently, K. McCullough, M.D.' from the Mayo Clinic (Rochester, MN) reported the results of his work with Elasto-Gel™ as a bolus material at the International Convention in Canada (July 1992) and confirmed the results of Dr. Chang'.

Bolus materials are frequently used in high energy radiation therapy in order to deliver the prescribed dose to the target site.

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2 Private Communications (1989)


4 McCullough, K., MD, et al, Canada, Poster Presentation, July 1992

5 Chang, F., PhD, Benson, K., RTT, Share, F., MD, "Study of Elasto-Gel™ Pads Used as Surface Bolus Material in High Energy Photon and Electron Therapy.", INT. J. RADIATION ONCOLOGY BIOLOGY PHYSICIAN, VOL. 22, pages 191-193