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Memo To: Distribution
From: Peter Berardo
Subject: Summary of Piplan Meeting, 3 Nov 80

The meeting was convened primarily to review PIPLAN projections as detailed in PIPLAN Memo of 16 Oct 80. Dr. Bush emphasized that he wants to be informed regarding all PIPLAN meetings.

The suggested procedure for entering ROI's at the CT console was seen as a necessary and sufficient method for semi-automatically incorporating ROI's into the treatment planning procedures. The supplementary suggestion of editing the comments field was viewed as desirable from the point of view of augmenting the information available to decode ROI's, but possibly too involved to be practicable. Drs. Bush, Berardo, and Hosaba will experiment with the procedure and determine a final SOP.

It was suggested again that EMI be induced to upgrade their software or to provide materials necessary to allow local upgrades, or to do both. (I made this suggestion to both Dr. Smith and Dr. Kelsey when version 3.0 of the EMI software was being installed).

PIPLAN Dose Distributions for Case [redacted] were reviewed and appeared acceptable when compared with our present output from TRTBM. Acceptability relies on PIPLAN reproducing experimental data and using the same algorithms to produce isodose contours in a patient. TRTBM uses experimental data with parallel beam assumptions to produce similar curves. More cases and tunes are required to validate the comparability in a variety of clinical cases.

The treatment planning procedure was reviewed regarding ROI's and the new programs PILIST and PILINK. It was agreed that PIPLAN will have an "AUTOPLOT" capability similar to CTVIEW to eliminate the marking of hardcopy output by the therapists and to retain a parallel capability in two treatment planning systems.

Drs. Bush and Smith emphasized the necessity of effective dose distributions, which UNM has included in the single-slice calculations. UNM has developed such distributions unilaterally, but these should be easily incorporated into PIPLAN.

Appliances were not discussed, but the capabilities outlined in the 16 Oct 80 Memo reflect the results of several discussions in this area.

The desirability of multi-port, interactive wighting and adding of dose distributions was emphasized, but accepted as having less importance than features mentioned above. As part of this discussion, the preliminary step of co-locating the center of the target-volume in different geometries was mentioned. Opinions on this subject were divided. Some felt that adding distributions was too ambiguous and that it was not practical to pursue. If this view dominates, then it follows that interactive port weighting and dose optimization is also not a practical pursuit, at least for non-coincident geometries.

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