AbstractID: 7486 Title: A method for checking high dose rate treatment times for vaginal applicators

A method is presented for checking the treatment time calculation for HDR vaginal cylinder treatments. The method represents an independent check of the HDR planning system and can take into account non-uniform isodose line coverage around the cylinder. Only information which is available from the written directive is required. The maximum discrepancy for a representative set of cylinder plans done on a Nucletron unit was 4%. The calculation method is easily implemented in a using an HTML/JavaScript document to remain independent of platform. A working HTML JavaScript program is presented.