

Since the publication of the AAPM Radiation Therapy Task Group 43 (TG-43) report in 1995, a number of new reports dealing with the new dosimetry parameters for palladium-103, iodine-125 and iridium-192 sources presented by TG-43 have appeared in the literature. The air kerma strength standard for low energy photon emitters has been revised by National Institute of Standards and Technology (NIST). The use of the new NIST standard results in a revision of values for dose rate constants reported in TG-43. Furthermore, TG-43 based dosimetry data for several newly designed interstitial brachytherapy sources have been reported recently. The original TG-43 formalism will be briefly reviewed and the dosimetry data required by the TG-43 will be updated.

Educational objectives: to review the task group 43 report on the dosimetry of interstitial brachytherapy sources and to update the data on dosimetry parameters for I-125 and Pd-103 sources.