

ERRATUM

Volume 11 (1982)

In "Fast Neutron Radiation Therapy," by L. Cohen and M. Awschalom, the last ten lines of text following the equation $TDF = K \times N \times (100d)^\delta \times t^{-\tau}$ on page 374 were omitted and should read as follows:

... where $\delta = 1/(1 - \alpha - \beta)$ and $\tau = \beta\delta$. Since the exponent of N is unity, this formula allows for additivity of TDF values in concomitant or sequential courses. Thus if TDF_γ is calculated for a course of X-ray therapy that is then followed by a neutron boost corresponding to TDF_n , the total biological effect corresponds to $TDF = TDF_\gamma + TDF_n$.

Numerically, for photons $\delta_\gamma = 1.538$ and $\tau_\gamma = 0.169$; for neutrons $\delta_n = 1.176$ and $\tau_n = 0.129$. The normalization constant for neutrons (K_n) is derived from clinical observation and is numerically equal to 0.024 for the high-energy p(66)Be(49) Fermilab beam (24). An analogous formulation for a low-energy d(15)Be unit by Kutsutani-Nakamura (41) gave ...