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Retrospective Study

Implications of radiation dose escalation through intensity-modulated radiation therapy with simultaneous integrated boost on neoadjuvant chemoradiation therapy for locally advanced distal esophageal adenocarcinoma

Ming Zeng, Fernando N Aguila, Taral Patel, Mark Knapp, Zhu Xueqiang, Xilin Chen, Phillip D Price

Abstract

AIM: To evaluate impact of radiation therapy dose escalation through Intensity Modulated Radiation Therapy with Simultaneous Integrated Boost (IMRT-SIB).

Methods and Materials. We retrospectively reviewed the patients who underwent 4D-based IMRT-SIB-based neoadjuvant chemoradiation protocol. During the concurrent chemoradiation therapy, radiation therapy was through IMRT-SIB delivered in 28 consecutive daily fractions with total radiation doses of 56 Gy to tumor and 5040 Gy dose-painted to clinical tumor volume, with a regimen at the discretion of the treating medical oncologist. This was followed by surgical tumor resection. We analyzed

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