



## AB054. 112. Intraoperative radiotherapy for early breast cancer: Beaumont hospital experience

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**Abstract:** One of the main objectives of breast cancer therapy is local control. This goal is primarily achieved by surgery and whole breast irradiation. The vast majority of local recurrences however occur within the same breast quadrant as the index lesion. Partial breast irradiation has been developed to address this fact and to reduce the duration of radiation treatment for suitable breast cancer patients. We introduced intra-operative radiation therapy (IORT) for early breast cancer to

Beaumont Hospital 18 months ago. This report outlines our experience to date. We have treated 17 patients using the INTRABeam device (Carl Zeiss). The mean age was 66 years, all tumours were T1–2 (mean=17 mm), all tumours were ER+ve and Her2-ve and any patients who demonstrated unfavorable characteristics post pathological analysis went on to receive standard external beam radiation (EBRT). IORT added an additional 20–45 mins to the standard operating time. Fifteen patients were treated with WLE and IORT alone, two patients of the group required standard EBRT in addition to IORT. There was one haematoma and two problematic seromas recorded for the group. Although we have a short follow-up to date that there have been no local recurrences or deaths recorded. All patients have reported very good to excellent satisfaction rates.

**Keywords:** Intraoperative; radiotherapy; early; breast; cancer

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