

PROTOCOL SYNOPSIS	
TITLE	Radiotherapy and breast reconstruction: main complications of immediate reconstruction surgery in irradiated mastectomized breasts and possible ways to minimize/avoid them.
SHORT TITLE	Immediate reconstruction in post-radiotherapy breasts: what about it? Outcomes and discussion.
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OBJECTIVES	<p>Primary:</p> <ul style="list-style-type: none"> - To determine incidence of post-operative radiotherapy according to different type of immediate breast reconstruction after total mastectomy. <p>Secondary:</p> <ul style="list-style-type: none"> - To determine type and severity of skin toxicity. - To determine cosmetic outcome. - To determine impact of radiotherapy parameters on late toxicity and cosmetic outcome. - To determine impact of other associated treatments on late toxicity and cosmetic outcome.
BACKGROUND	<p>Breast cancer is the most common invasive cancer in women worldwide, comprising 23% of invasive cancer in women and 16% of all female cancers. Common treatment may include chemotherapy, surgery and radiotherapy depending on the severity of the disease.</p> <p>In women who undergo total mastectomy immediate breast reconstruction can play a very important role, psychologically, socially and even sexually. Breast reconstruction surgery aims to achieve good functional and cosmetic outcomes with a positive impact on quality of life of these patients. Radiotherapy has been proven to be an essential part of the treatment and frequently indicated in these patients who have a high risk of local recurrence. The decision to deliver radiotherapy after Immediate breast reconstruction is mainly based on prognostic factors, breast morphology, breast volume and type of reconstruction. This decision has to be shared with the patients and if needed with her family.</p> <p>We aimed in this study to construct a large cohort from 3 centers, MGH Boston (USA), University of Creteil (France) and Anticancer Center of Lille (France). We will analyze the toxicity and cosmetic results after immediate breast reconstruction followed/preceded or not by systemic therapy and breast.</p>