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Accelerated partial breast irradiation: Past, present, and future

Anne W Tann, Sandra S Hatch, Melissa M Joyner, Lee R Wiederhold, Todd A Swanson

Abstract

Accelerated partial breast irradiation (APBI) focuses higher doses of radiation during a shorter interval to the lumpectomy cavity, in the setting of breast conserving therapy for early stage breast cancer. The utilization of APBI has increased in the past decade because of the shorter treatment schedule and a growing body of outcome data showing positive cosmetic outcomes and high local control rates in selected patients undergoing breast conserving therapy. Technological advances in various APBI modalities, including intracavitary and interstitial brachytherapy, intraoperative radiation therapy (IORT), and external beam radiation therapy (EBRT), have made APBI more accessible in the community. Results of early APBI trials served as the basis for the current consensus guidelines, and multiple prospective randomized clinical trials are currently ongoing. The pending long term results of these trials will help us identify optimal candidates that can benefit from APBI. Here we provide an overview

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Over the **past** 2 decades, alternatives to standard WBI have emerged. ... **Accelerated partial-breast irradiation** is a technique that treats only the ... regional recurrence, or survival.¹⁵ The Table **presents** key clinical studies by APBI technique.

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American Brachytherapy Society with expertise in breast cancer and ... margins (negative), lymphovascular space invasion (not **present**), and nodal status (negative).

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