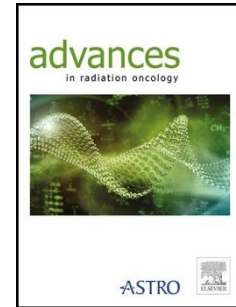


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Title: Cardiac sparing radiotherapy using positioning breast shell for left sided breast cancer patients ineligible for breath hold techniques.

Author: Kurian Joseph, Heather Warkentin, Sunita Ghosh, Lee-Anne Polkosnik, Kent Powell, Matthew Brennan, Brad Warkentin, Johanna Jacobs, Khalifa Alkaabi, Susan Chafe, Keith Tankel, Zsolt Gabos, Hong-Wei Liu, Patricia Tai



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Title page

Title: Cardiac sparing radiotherapy using positioning breast shell for left sided breast cancer patients ineligible for breath hold techniques.

Running title: Cardiac Sparing Radiotherapy using breast shell

Authors: Kurian Joseph, M.D, FRCPC ^{a*}, Heather Warkentin, MSc ^b, Sunita Ghosh, PhD ^c, Lee-Anne Polkosnik, CMD ^d, Kent Powell, CMD ^d, Matthew Brennan, HNC ^d, Brad Warkentin, PhD ^b, Johanna Jacobs ^e, Khalifa Alkaabi, MBBS ^a, Susan Chafe, M.D, FRCPC ^a, Keith Tankel, M.D, FRCPC ^a, Zsolt Gabos, M.D, FRCPC ^a, Hong-Wei Liu, M.D, FRCPC ^f, Patricia Tai, M.D, FRCPC ^g.

^a Division of Radiation Oncology, Department of Oncology, University of Alberta, and Cross Cancer Institute, Edmonton, Alberta, Canada

^b Division of Medical Physics, Department of Oncology, University of Alberta, and Cross Cancer Institute, Edmonton, Alberta, Canada

^c Division of Medical Oncology, Department of Oncology, University of Alberta, and Cross Cancer Institute, Edmonton, Alberta, Canada

^d Department of Medical Physics, Cross Cancer Institute, Edmonton, Alberta, Canada ^d

^e Medical Student, Faculty of Medicine, KULeuven, Belgium

^f Division of Radiation Oncology, Department of Oncology, University of Calgary

^g Division of Radiation Oncology, Department of Oncology, University of Saskatchewan, and Allan Blair Cancer center, Regina, Saskatchewan, Canada

*Corresponding author

Breath-hold (BH) techniques substantially reduce risk of cardiac morbidity for women undergoing adjuvant radiotherapy (ABRT). However, a subset of left sided breast cancer (LSBC) patients will be ineligible for BH due to different causes. We routinely use a custom made breast shell for patients who are ineligible for BH techniques to reduce radiation to the heart. This study evaluates the dosimetric impact of using a breast shell for LSBC patients undergoing ABRT.

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