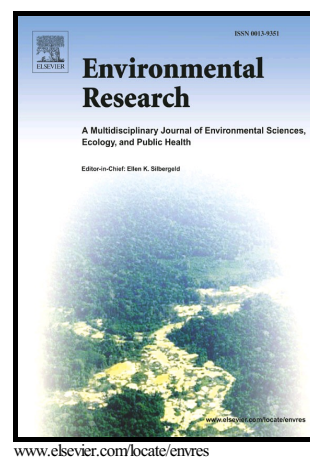


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Bisphenol-A in Breast Adipose Tissue of Breast Cancer Cases and Controls

Katherine W. Reeves, PhD, MPH^{a*}, Sallie Schneider, PhD^b, Jingchuan Xue, MS^c,
Kurunthachalam Kannan, PhD,^c Holly Mason, MD,^d Melissa Johnson, MD^e Grace Makari-
Judson, MD,^f Mary Díaz Santana, PhD, MS^a

^aDepartment of Biostatistics and Epidemiology, University of Massachusetts Amherst, 715 North Pleasant Street, Amherst, MA

^bPioneer Valley Life Sciences Institute, Baystate Health, 3601 Main Street, Springfield, MA

^cWadsworth Center, New York State Department of Health, and Department of Health Sciences, School of Public Health, State University of New York at Albany, 120 New Scotland Avenue, Albany, NY

^dDepartment of Surgery, Baystate Health, 759 Chestnut Street, Springfield, MA

^ePioneer Valley Plastic Surgery, 100 Wason Avenue #360, Springfield, MA

^fBaystate Regional Cancer Program, 3350 Main Street, Springfield, MA

*To Whom Correspondence Should be Addressed: Katherine W. Reeves, PhD, MPH, 411 Arnold House, 715 North Pleasant Street, Amherst, MA 01003, Phone: (413) 577-4298; Fax: (413) 545-1645. Email: kwreeves@schoolph.umass.edu

Abstract

We evaluated whether bisphenol-A (BPA) could be quantified in breast adipose tissue samples provided by 36 breast cancer mastectomy patients and 14 reduction mammoplasty patients. Samples of breast adipose tissue were collected and BPA concentration was quantified using HPLC-ESI-MS/MS. BPA was detectable above the limit of quantitation of 0.38 ng/g in 30.6% of samples. BPA concentrations varied within- and between breasts and were similar between cases and controls (0.39 vs 0.41 ng/g, $p=0.74$).

Keywords: Bisphenol-A, breast, cancer, adipose, endocrine disruption

Introduction

Bisphenol-A (BPA) is an endocrine disrupting chemical, with exposure occurring primarily through leaching of BPA from plastic containers and cans into food and liquids [1].

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