

## Journal Article



## A lipoxygenase inhibitor in breast cancer brain metastases

Journal	Journal of Neuro-Oncology
Publisher	Springer Netherlands
ISSN	0167-594X (Print) 1573-7373 (Online)
Subject	Medicine
Status	ONLINE FIRST
Category	Clinical-Patient Studies
DOI	10.1007/s11060-006-9248-4
Online Date	Tuesday, September 26, 2006

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**Received:** 23 July 2006 **Accepted:** 11 August 2006 **Published online:** 26 September 2006

**Abstract** The complication of multiple brain metastases in breast cancer patients is a life threatening condition with limited success following standard therapies. The arachidonate lipoxygenase pathway appears to play a role in brain tumor growth as well as inhibition of apoptosis in in-vitro studies. The down regulation of these arachidonate lipoxygenase growth stimulating products therefore appeared to be a worthwhile consideration for testing in brain metastases not responding to standard therapy. *Boswellia serrata*, a lipoxygenase inhibitor was applied for this inhibition. Multiple brain metastases were successfully reversed using this method in a breast cancer patient who had not shown improvement after standard therapy. The results suggest a potential new area of therapy for breast cancer patients with brain metastases that may be useful as an adjuvant to our standard therapy.

**Keywords** Cancer - Lipoxygenase - *Boswellia serrata* - Oxidoreductase inhibitor - LOX inhibitors - Lipoxygenase inhibitor - Brain Cancer - Breast Cancer - Metastases - Breast Cancer Remission - Arachidonate: Oxygen oxidoreductase - Herceptin

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