

# FEAR

# LESS

When Cancer Comes Back.

## FEAR

*because you've been told  
your cancer came back.*

### Metastatic Brain Tumors

Metastatic Brain Tumors are the most common brain tumors in adults. Brain Metastases occur when cancer spreads from the primary location, (i.e. Lung, Breast, Colon, Kidney, Melanoma) to the brain. Typical symptoms of brain metastases are frequent headaches, blurry vision, loss of motor function and dizziness. Primary treatment of these tumors may be performed separately or by combination of surgery, chemotherapy, whole brain radiation (WBRT) and Stereotactic Radiosurgery (SRS) depending on the number of lesions and cancer history. Metastatic lesions may spread rapidly as sometimes occurs with lung cancer; the metastatic lesion(s) may be detected before the primary lung cancer is found during investigation of neurologic symptoms on CT or MRI imaging.

### CyberKnife® SRS Treatment for Metastatic Brain Tumors

SRS is an effective treatment option for some patients with brain metastases. High doses of radiation are delivered directly to the tumor minimizing radiation exposure to the surrounding tissues. The treatment is noninvasive and painless. Depending on the size and number of lesions, treatments can be performed in 1 to 5 outpatient sessions. SRS is unique in the ability to treat tumors located in areas that are inoperable or near critical structures as well as locations that have received prior radiation therapy.

### Patient Spotlight

82 year old female treated for breast cancer in 2007 and 2012. Follow-up in 2012 she presented with brain metastasis in the right frontal and left occipital parietal lobes and was treated with SRS. The patient developed an additional metastases in her left occipital lobe in 2013, also treated with SRS. The patient then went on to develop subsequent metastases in the right temporal and the left medial cerebellum in February and March of 2014. These new lesions again received SRS treatment. The MRI used for this most recent treatment plan showed the 2 previously treated frontal lesions completely resolved.

The information contained in this document is presented in summary form only and is not intended to replace or serve as a substitute for your duty to verify that such information is proper for your patient's signs, symptoms, conditions or circumstances.

## BRAIN METASTASES – Case Study

## H O P E

*because there are new and  
effective treatment options.*

### Treatment

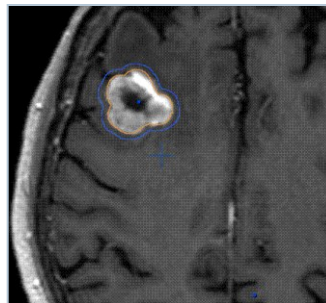
The patient was treated with stereotactic radiosurgery (SRS) to each lesion as follows: Right Frontal Met 1700 cGy/1 Fraction; Left Occipital Parietal Met 2200 cGy/1 Fraction. SRS Left Occipital Met 2200 cGy/1 Fraction, SRS Right Temporal Met 2000 cGy/1 Fraction, SRS Left Medial Cerebellum Met 2000 cGy/1 Fraction, Left Medial Temporal Met 2200 cGy/1 Fraction.

### Post-Treatment

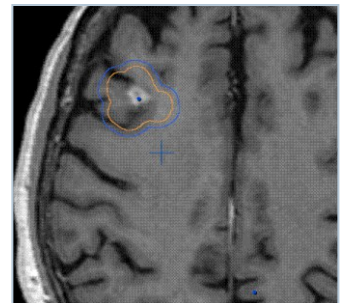
Follow up MR imaging of the lesions treated in 2012 demonstrated local control of the tumors treated. Additional follow up MR after 2013 treatment again demonstrated local control. Although the patient developed subsequent metastases in the right temporal and the left medial cerebellum in February and March of 2014, treatment and follow up MR imaging also demonstrated excellent local control of the tumors. The patient is a 7 year survivor of breast cancer and it has been over 26 months since her diagnosis with brain metastases. The patient has maintained a Karnofsky performance status of 100.

### Metastatic Brain Tumor Treatment at Austin CyberKnife

Treatment plans will depend on several factors, including the exact location of the tumor, stage of the disease and the age and general health of the patient. For more information, please call or visit: us at 512-324-8060 or [www.AustinCyberKnife.com](http://www.AustinCyberKnife.com)



Right Frontal Occipital lobe before SRS Treatment



Right Frontal Occipital lobe post SRS Treatment

For more information on treating recurrent and metastatic cancer, please call or visit us at

(512) 324-8060 or [AustinCyberKnife.com](http://AustinCyberKnife.com)

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