



Ask a Radiation Oncologist: Radiation Therapy for Brain/Spine Cancers



RT Answers Facebook Live Event: March 23, 6 pm ET/3 pm PT



Andrea Arnett, MD, PhD
Ohio State University
Cancer Center
(Moderator)



Lia M. Halasz, MD
University of
Washington/Seattle Cancer
Care Alliance



Abigail Stockham, MD Mayo Clinic



Debra Nana Yeboa, MD MD Anderson Cancer Center

facebook.com/RTAnswers



Format for Tonight

- Panelists will give overview & answer common questions.
- Submit written questions in the Facebook chat
- Recording will be available online



Today's discussion is informational only and should not be used in place of advice specific to your condition from your medical professional.

We will discuss treatments including surgery, chemotherapy and others. We encourage you to talk to other specialists, where appropriate, about other treatments you are considering.



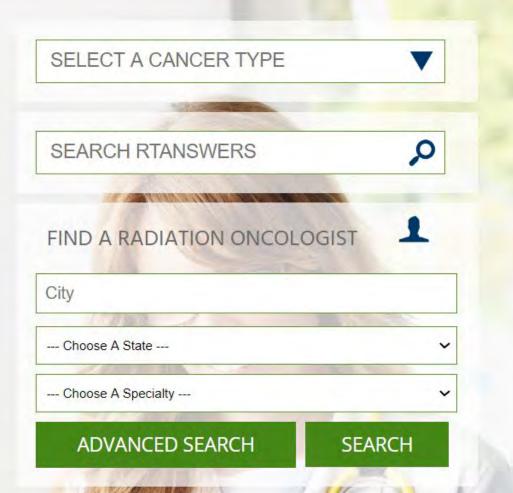






Patient Education | Cancer Type | What is Radiation Therapy | Treatment Types

RTAnswers.org

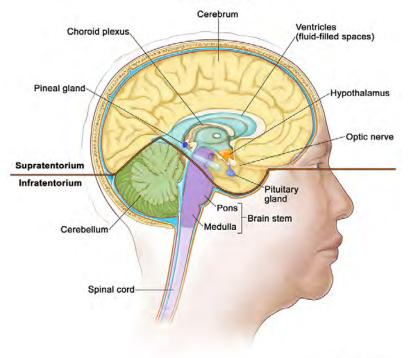




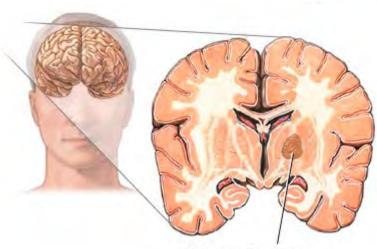


Types of Brain & Spine Cancers

Brain Anatomy



© 2014 Terese Winslow LLC U.S. Govt. has certain rights



Primary brain tumor

*ADAM.

Primary Brain Tumors

- A primary brain tumor is a tumor that starts in the brain
- A primary brain tumor is often described as "low grade" or "high grade"
- Low-grade tumors generally grow slowly, but can turn into high-grade tumors. A highgrade tumor is more likely to grow faster.

RTAnswers.org

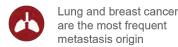
metastatic vs primary

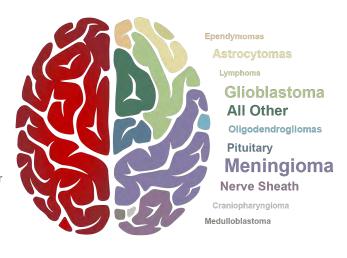
BRAIN CANCER

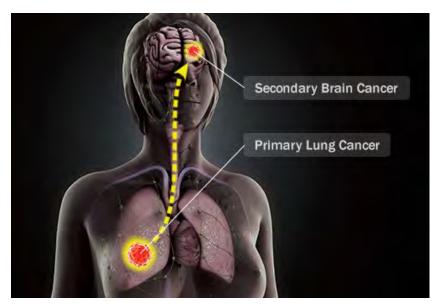
INCIDENCE











Brain Metastases

- A metastasis is a cancerous tumor that starts in another part of the body and then spreads to the brain
- A brain metastasis may also be called metastatic cancer or a "secondary" brain tumor
- Brain metastases are more common than primary brain cancers

metastatic vs primary

BRAIN CANCER

INCIDENCE



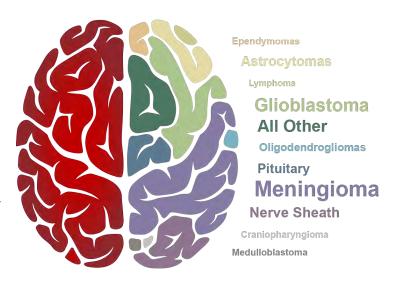
Higher than any primary brain cancer

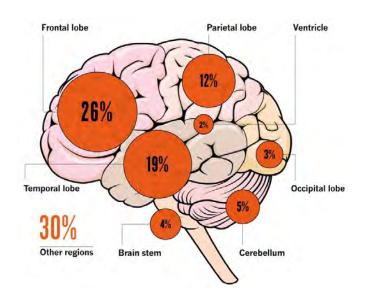


Accounts for half of all CNS tumors



Lung and breast cancer are the most frequent metastasis origin





Brain Cancers

 What are the most common types of primary brain tumors?

 What are the most common types of brain metastases?



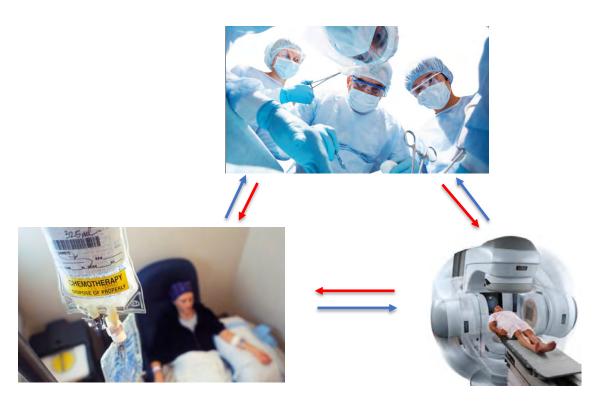
Cancers of the Spine & Spinal Cord

 Both primary and secondary cancers can arise within the spine

 The spine is a common site of metastatic disease for many types of cancers, including breast, lung, prostate, & colorectal cancers



Treatment of Brain & Spine Tumors



Doctors & Treatments

 Which doctors are involved with patients with brain cancer?

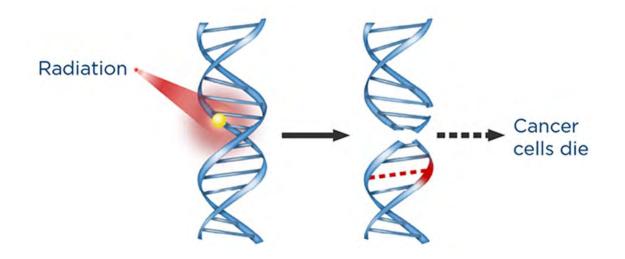
 Which types of treatments are offered by each physician?

 Do all brain and spine tumors require surgery?







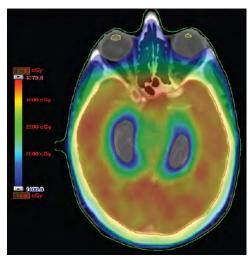


Radiation Therapy

- How does radiation therapy work?
- What types of radiation treatment methods are available?







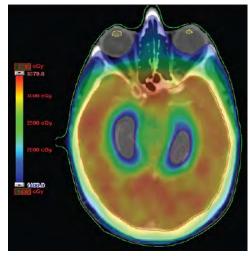
Radiation Therapy

• Do all tumors require radiation?

• What is radiosurgery?



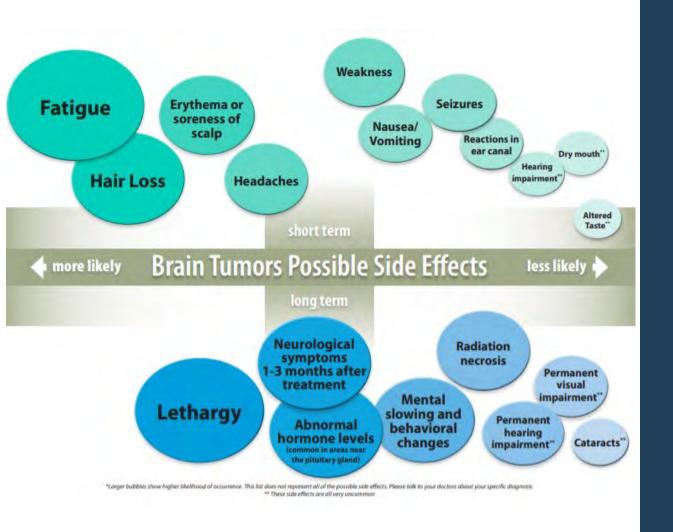




Radiation Therapy

 What is the difference between 'focused' and 'whole brain' radiation?

 How are protons different than photons?

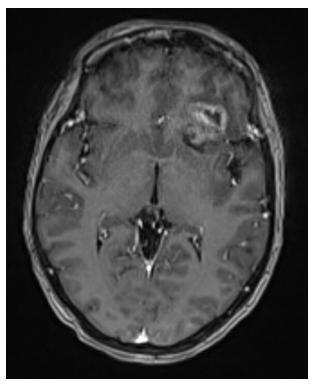


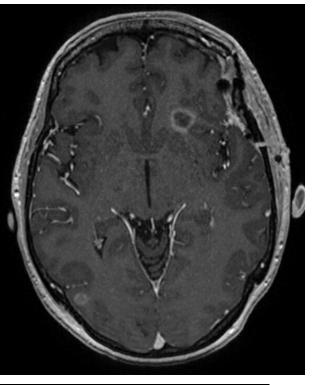
Side Effects

 What types of short-term side effects can be expected from radiation?

 Are there things that can be done to minimize side effects?

 What long-term side effects are associated with treatment?







Radiation Therapy for Brain & Spine Cancers

How do we know that the treatment is working?

 What treatment options are available if the cancer returns?

 Can radiation be given more than once?



Audience Questions & Additional Discussion



COVID-19



ASTRO Recommendation on COVID-19 Vaccination for Cancer Patients Receiving RT

Cancer patients may have an increased risk of contracting COVID-19 and more severe disease if infected. According to the Centers for Disease Control and Prevention (CDC), "Adults of any age with certain underlying medical conditions are at increased risk for severe illness from the virus that causes COVID-19.

mRNA COVID-19 vaccines may be administered to people with underlying medical conditions provided they have not had <u>a severe or immediate allergic reaction</u> to any of the ingredients in the vaccine." These guidelines also apply to cancer patients.

The mRNA COVID-19 vaccines <u>do not include</u> any virus, and there is no risk of contracting the infection from the vaccine. (Cont.)



ASTRO Recommendation on COVID-19 Vaccination for Cancer Patients Receiving RT

Patients who have cancer, as well as those who have received treatment for cancer, may be immune compromised, but these patients may still receive COVID-19 vaccines as long as there is no increased risk of reaction to any of the components of the vaccine.

ASTRO encourages cancer patients who are actively receiving treatment such as radiation therapy to consult with their oncologists about the timing for vaccination, injection location and any unique considerations relevant for their treatments. Individuals with a prior history of cancer who are not in active treatment are encouraged to seek vaccination whenever it is made available to them.

Radiation Therapy for **Brain Tumors**



The brain is the center of thought, memory, emotion, speech, sensation and motor function. The spinal cord and special nerves called cranial nerves carry and receive messages between the brain and the rest of the body. Brain turnors cause damage because, as they grow, they can interfere with surrounding cells that serve vital roles in our everyday life.

estimates that more than 688,096 persons are living with a diagnosis of primary brain and central nervous system tumors in the United States.

An estimated 77,670 new cases of primary benign and malignant brain and central nervous system tumors are expected to be diagnosed in the United States in 2016.





Survivorship 🙏

Treatment Team 11 Resources 1

Patient Education | Cancer Type | What is Radiation Therapy | Treatment Types

