

PROFILE & DRUG DEVELOPMENT

# BRAIN CANCER

GLIOBLASTOMA MULTIFORME (GBM) www.ISRreports.com

WHAT IS GBM?

## GBM is the most common and most aggressive form of



primary malignant brain tumor.



# **SYMPTOMS**

Headaches

- Hemiparesis Memory, personality, or
- neurological deficits

Seizures

GBM is slightly more common in

MALES

and slightly more common in

CAUCASIANS (in US).





The most optimal treatment for GBM is a combination of surgery, radiotherapy, and chemotherapy. SURGERY

treatment for GBM is

No available



GOAL: removes as much tumor tissue as possible. It is believed that surgery gives patients a

other treatment.



RADIATION 1. Radiation aims to kill as many of the cells left behind from surgery as possible. 2. Radiation is usually given

**Temozolomide** 

12.1 MONTHS to

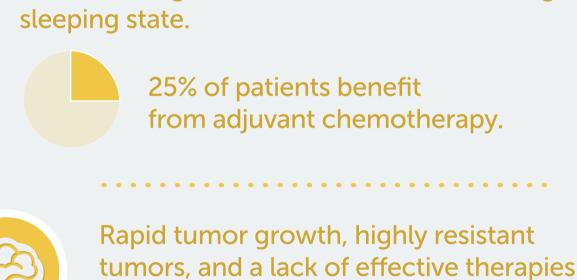
5 times a week for 6 weeks.

oral chemotherapy,

Temozolomide.

3. Radiation is combined with the

14.6 MONTHS CHEMOTHERAPY GOAL: Chemotherapy and radiation aim to put

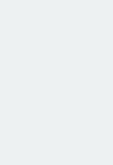


the remaining cancer cells into a nondividing,

contribute to making this one of

THE DEADLIEST

CANCER TYPES.



AEAR SURVIVAL

Without treatment, the mean

life expectancy is approximately

**Breast Cancer: 89%** Colorectal: 64% Glioblastoma: 4.8%

**Lung: 15%** 

Prostate: 99%

4.5 MONTHS.

With standard of care treatment the average life expectancy rises to approximately 15 MONTHS. THE FUTURE

GBM is classified as an

ORPHAN



allows the developing company to receive tax

breaks and market exclusivity upon approval of

### **NEW THERAPIES** in active development, positive results in early stage trials. These new therapies include:

**50 POTENTIAL** 

• Immunotherapeutic Vaccines

Anti-Angiogenesis

Gene Therapy

Cytotoxics

**76 GBM** 

Cell Signaling Pathway Inhibitors

the therapy.

cancer.org, http://visual.ly/brain-cancer-info-

INFO@ISRREPORTS.COM

cine.medspace.com,

58 PHARMA & BIOTECH

sponsored GBM trials since 2010. Sources: ISR Reports, brain.mgh.harvard.edu,



**ISRREPORTS.COM** 

graphic, www.mdanderson.org, seer.cancer.gov, International Agency for Research on Cancer Scientific Publications Number 155, 2002, www.cbtrus.org, http://globocan.iarc.fr, neurosurgery.ucsd.edu/glioblastoma/, emedi-

@ISRREPORTS

240,000 PEOPLE equivalent to the population of Durham, NC.

2-3 CASES per 100,000 adults Nausea and vomiting

that's

better prognosis when they begin





**COMPANIES** have