Orphan drugs in glioblastoma multiforme: a review

Abstract: Glioblastoma multiforme (GBM) is the most common and deadly brain tumor in adults. The incidence of GBM in the USA and Europe is 2–3 per 100,000. By definition, an orphan disease affects up to 200,000 persons in the USA (one in every 1,500). A search was made in the US Food and Drug Administration orphan drug listing. In addition, a PubMed search of orphan drugs designated for GBM or high-grade glioma was performed, followed by a search for clinical studies in GBM with orphan drugs designated for other indications. This included cytotoxic chemotherapy and targeted agents. Thirteen drugs with orphan designation for the treatment of glioblastoma, high-grade glioma, or primary malignant brain tumors were identified. In addition, 16 drugs with orphan designation for other indications were identified to have been evaluated in clinical studies of GBM. The efficacy data from the clinical studies is presented. A few agents have been approved by the US Food and Drug Administration for the treatment of high-grade gliomas following orphan drug designation, but most have failed to reach the market. However, a few patients may have benefited from receiving developmental agents within clinical trials. Biomarkers for selection of these patients may result in more success in the field of personalized medicine.

Keywords: orphan drugs, glioblastoma multiforme, brain tumor, targeted therapy, cytotoxic therapy

Introduction
Glioblastoma multiforme (GBM) is the most common and deadly malignant brain tumor in adults. Standard therapy for patients with good performance status (World Health Organization performance 0–2) consists of extensive surgery if surgery is possible followed by radiation therapy in combination with concomitant and adjuvant temozolomide. However, most patients experience relapse and the median survival is less than 15 months. A number of new tailored therapies have been tested, of which antiangiogenic therapy with bevacizumab in particular has shown promising results. However, the effect on survival has been very limited, and a demand for development of new therapeutic strategies therefore exists.

The incidence of GBM in the USA and Europe is 2–3 per 100,000. By definition, an orphan disease is one affecting <200,000 persons in the USA (one in every 1,500). In Europe, the definition is a bit narrower, with fewer than five in 10,000 (one in every 2,000) people affected. Accordingly, GBM is an orphan disease. Forty percent of orphan drugs are indicated to treat various cancers, and some top-selling oncology drugs indeed have orphan drug designation. These include Rituxan®, Herceptin®, and Avastin®. This paper describes the use of orphan drugs in GBM.
Materials and methods
A search was made in the US Food and Drug Administration (FDA) orphan drug list (http://www.accessdata.fda.gov/scripts/opdlisting/opopd/). This page searches the Orphan Drug Product designation database. Searches are run by entering the product name, orphan designation, or dates. The search was performed on May 6, 2014. A PubMed search of orphan drugs designated for GBM or high-grade gliomas (Table 1) was then performed. In addition, we searched PubMed for clinical studies in GBM with orphan drugs designated for other indications (Table 2). This included cytotoxic chemotherapy and targeted agents. The PubMed search used a broad search strategy to identify clinical studies with these agents, and reference lists of included studies were also reviewed. Thirteen drugs with orphan designation for the treatment of glioblastoma, high-grade glioma, or primary malignant brain tumors were identified (Table 1). In addition, 16 drugs with orphan designation for other indications were identified as having been evaluated in clinical studies of GBM (Table 2).

Orphan drugs designated for glioma, GBM, intracranial malignancies, or primary brain tumors
Antiangiogenic drugs
GBM is characterized by florid angiogenesis, and drugs targeting blood vessel formation have been developed.

Bevacizumab
Bevacizumab, a humanized monoclonal antibody targeted to vascular endothelial growth factor (VEGF), received orphan drug designation for the treatment of glioma in 2006. Bevacizumab clears VEGF ligand in the extracellular space and therefore does not have to cross the blood–brain barrier to be active. Initial Phase II studies reported an impressive response rate of up to 42% and progression-free survival at 6 months (PFS6) of 46%. The led to the pivotal Phase II study, BRAIN (ClinicalTrials.gov identifier NCT00345163), that showed a benefit in patients with recurrent GBM. Several Phase II studies in GBM patients with recurrent disease have been performed, with prolongation of life and improved quality of life in responders. Recently, a randomized Phase II study comparing bevacizumab alone versus lomustine versus the combination of both agents was presented at the 2013 American Society of Clinical Oncology (ASCO) meeting. The study showed that the combination resulted in a significant increase in PFS6 from 18% (bevacizumab) and 11% (lomustine) to 41%. Confirmation by a Phase III study is awaited.

Two published, randomized Phase III studies, AVAGLIO (Avastin in Glioblastoma) and Radiation Therapy Oncology Group (RTOG) 0825, compared standard treatment versus standard treatment plus bevacizumab. Both studies included patients with newly diagnosed GBM and good performance status, and 06-methylguanine-DNA methyltransferase (MGMT)-methylated as well as non-methylated tumors. Known prognostic factors were comparable in the two studies except for surgery, in that more patients had debulking surgery in the RTOG study than in the AVAGLIO study. Both studies found a significant increase in median progression-free survival (from 6.2 months to 10.6 months [a 70% increase] in AVAGLIO and from 7.3 months to 10.7 months [a 47% increase] in RTOG 0825). However, no difference in overall survival was observed in any of the studies. A third randomized Phase III study that included non-methylated glioblastomas reported an increase in progression-free survival but not in overall survival.

Thalidomide
Thalidomide received orphan drug designation for the treatment of primary brain malignancies in 1998. It was

Table 1 List of orphan drugs with designation for primary brain tumors

<table>
<thead>
<tr>
<th>Generic name</th>
<th>Designation date</th>
<th>Orphan designation</th>
</tr>
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<tbody>
<tr>
<td>Bevacizumab</td>
<td>May 26, 2006</td>
<td>Treatment of malignant glioma</td>
</tr>
<tr>
<td>Cediranib</td>
<td>December 13, 2010</td>
<td>Treatment of glioblastoma</td>
</tr>
<tr>
<td>Cilengitide</td>
<td>May 27, 2005</td>
<td>Treatment of malignant glioma</td>
</tr>
<tr>
<td>Trabedersen</td>
<td>June 5, 2002</td>
<td>Treatment of malignant glioma</td>
</tr>
<tr>
<td>Hypericin</td>
<td>August 3, 2000</td>
<td>Treatment of glioblastoma multiforme</td>
</tr>
<tr>
<td>Erlotinib HCl</td>
<td>July 18, 2003</td>
<td>Treatment of malignant glioma</td>
</tr>
<tr>
<td>Polifeprosan 20 with carmustine</td>
<td>December 13, 1989</td>
<td>Treatment of malignant glioma</td>
</tr>
<tr>
<td>Temozolomide</td>
<td>October 5, 1998</td>
<td>Treatment of recurrent malignant glioma</td>
</tr>
<tr>
<td>Glioma Enzastaurin</td>
<td>September 19, 2005</td>
<td>Treatment of glioblastoma multiforme</td>
</tr>
<tr>
<td>Thalidomide</td>
<td>February 27, 1998</td>
<td>Treatment of primary brain malignancies</td>
</tr>
<tr>
<td>Carmustine</td>
<td>July 3, 2000</td>
<td>Treatment of intracranial malignancies</td>
</tr>
<tr>
<td>Procarbazine HCl</td>
<td>August 8, 2006</td>
<td>Treatment of malignant glioma</td>
</tr>
<tr>
<td>Afatinib</td>
<td>June 4, 2014</td>
<td>Treatment of malignant brain and central nervous system tumors</td>
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</tbody>
</table>
Table 2 List of orphan drug with designation for indications other than primary brain tumors

<table>
<thead>
<tr>
<th>Generic name</th>
<th>Designation date</th>
<th>Orphan designation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Vorinostat</td>
<td>March 17, 2004</td>
<td>Treatment of mesothelioma</td>
</tr>
<tr>
<td>Bortezomib</td>
<td>January 15, 2003</td>
<td>Treatment of multiple myeloma</td>
</tr>
<tr>
<td>Rilotumumab</td>
<td>June 18, 2012</td>
<td>Treatment of gastric cancer including gastroesophageal junction adenocarcinoma</td>
</tr>
<tr>
<td>Romidepsin</td>
<td>September 30, 2004</td>
<td>Treatment of non-Hodgkin’s T-cell lymphomas</td>
</tr>
<tr>
<td>Dasatinib</td>
<td>November 28, 2005</td>
<td>Treatment of chronic myelogenous leukemia</td>
</tr>
<tr>
<td>Pazopanib</td>
<td>October 20, 2009</td>
<td>Treatment of soft tissue sarcomas</td>
</tr>
<tr>
<td>Temsirolimus</td>
<td>December 16, 2004</td>
<td>Treatment of renal cell carcinoma</td>
</tr>
<tr>
<td>Cetuximab</td>
<td>July 3, 2000</td>
<td>Treatment of squamous cell cancer of the head and neck in patients who express epidermal growth factor receptor</td>
</tr>
<tr>
<td>Tipifarnib</td>
<td>July 6, 2004</td>
<td>Treatment of acute myeloid leukemia</td>
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<tr>
<td>Fenretinide</td>
<td>October 5, 2005</td>
<td>Treatment of neuroblastoma</td>
</tr>
<tr>
<td>Sorafenib</td>
<td>October 8, 2004</td>
<td>Treatment of renal cell carcinoma</td>
</tr>
<tr>
<td>Hydroxyurea</td>
<td>October 1, 1990</td>
<td>Treatment of patients with sickle cell anemia as shown by the presence of hemoglobin S</td>
</tr>
<tr>
<td>Bendamustine</td>
<td>August 17, 2007</td>
<td>Treatment of chronic lymphocytic leukemia</td>
</tr>
<tr>
<td>HCl</td>
<td></td>
<td>Treatment of cancer of the adrenal cortex</td>
</tr>
<tr>
<td>Gossypol</td>
<td>October 22, 1990</td>
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Inhibition of miscellaneous cell pathways

Cediranib

Cediranib is an orally available pan-VEGF receptor tyrosine kinase inhibitor with additional activity against platelet-derived growth factor-β and c-Kit. Cediranib received orphan drug designation for malignant glioma in 2010. An initial Phase II study showed a very encouraging radiographic response rate of 57% and PFS6 of 26%. The Phase III study, REGAL (ClinicalTrials.gov identifier NCT00777153), compared cediranib as monotherapy or in combination with lomustine versus lomustine alone in patients with recurrent GBM. However, this study failed to meet the primary endpoint of prolongation of progression-free survival with cediranib either as monotherapy or in combination with lomustine versus lomustine. Studies of first-line cediranib combined with radiotherapy and temozolomide are ongoing.

Cilengitide

Cilengitide is a specific inhibitor of the αβ3 and αβ5 integrins. An orphan drug designation for malignant gliomas was recorded in 2005. According to preclinical studies, cilengitide has both antiangiogenic activity and anti-invasive activity. Modest activity at doses of 500–2,000 mg twice weekly has been reported, and a pharmacokinetic study has confirmed drug delivery and retention in tumor tissue in surgical specimens following three intravenous administrations. However, PFS6 was only 12% and median progression-free survival was 8 weeks, with no responses reported. In a joint European Organization for Research and Treatment of Cancer and National Cancer Institute of Canada (EORTC/NCIC) Phase III randomized study, cilengitide failed to prolong progression-free survival or overall survival in patients with newly diagnosed glioblastoma and the methylated MGMT gene promoter.

Trabedersen

Trabedersen is a synthetic antisense phosphorothioate oligodeoxynucleotide complementary to the messenger RNA of the human transforming growth factor (TGF)-β2 gene, and was developed as a novel, targeted treatment for patients with high-grade glioma. The human TGF-β2 gene is overexpressed in more than 90% of high-grade gliomas. Orphan drug designation for malignant glioma was registered in 2002. A small hypothesis-generating randomized Phase II study comparing two doses of intratumoral trabedersen with temozolomide or PCV (procarbazine lomustine and vincristine) was negative and these combinations have not been studied since.

Erlotinib

Primary GBM is characterized by overexpression and dysregulated activity of the epidermal growth factor receptor (EGFR), as a result of amplification and/or mutation. The most common EGFR mutation in GBM is the constitutive active deletion variant EGFRvIII, which has been correlated with increased malignant potential. Both EGFR and
EGFRvIII are only found in GBM and not in the normal brain. Although EGFR likely plays an important role in GBM, inhibition of the receptor pathway alone has not proven as clinically effective as expected.

Several Phase II trials evaluating the benefit of EGFR inhibitors have been performed in patients with recurrent malignant glioma. Erlotinib was granted orphan designation for malignant glioma in 2003. Objective response rates range from 0% to 26%, and no apparent survival benefit has been observed. The two largest Phase II studies reported a PFS6 in recurrent GBM of only 3%29 and 20%,30 and response rates of 0% and 6.3%, respectively.

A randomized Phase II study compared erlotinib with temozolomide or lomustine in recurrent GBM. PFS6 in the erlotinib arm was 11.4% (95% confidence interval 4.6–21.5), and 24% in the control arm. The response rate for erlotinib was only 3.7%, and the response was not correlated with EGFR expression or mutation.31 A recent Phase II study confirmed that erlotinib had little or no activity in patients with relapsed GBM expressing EGFRvIII and phosphatase and tensin homolog (PTEN).32

Afatinib
Afatinib, an irreversible blocker of the erbB family (including EGFRvIII), received orphan drug designation in April 2014 for the treatment of malignant brain tumors. Because mutated EGFRvIII is also targeted with this agent, activity may be seen in GBM. One Phase I–II study presented at the 2011 ASCO meeting compared afatinib monotherapy with afatinib in combination with temozolomide or temozolomide monotherapy in recurrent GBM. PFS6 was 3%, 17%, and 22%, respectively, and a response was seen in one, five, and six patients, respectively. It was concluded that afatinib has low single agent activity in recurrent GBM.33

Enzastaurin
Enzastaurin, a potent inhibitor of protein kinase C and the phosphatidylinositol-4,5-bisphosphate 3-kinase/v-Akt Murine Thymoma Viral Oncogene (AKT) pathway, was granted orphan designation in 2005 for the treatment of GBM. Encouraging response rates were reported in a Phase I–II study, with 21 of 84 patients achieving a radiological response (25%).34 However, a subsequent Phase III study comparing enzastaurin with lomustine was negative. The study was terminated for futility after a preplanned interim analysis showed a median progression-free survival of 1.5 months versus 1.6 months (hazard ratio 1.28) and a PFS6 of 11.1% versus 19% (P=0.03). Overall survival (6.6 months and 7.1 months, respectively; hazard ratio 1.2) did not differ significantly between the enzastaurin and lomustine arms. An objective response was observed in 2.9% and 4.3% of patients, respectively.35

**Chemotherapeutic drugs**

**Temozolomide**
Temozolomide, an orally administered imidazotetrazine derivative, received initial orphan drug designation in 1998 for the treatment of recurrent malignant glioma. The early Phase II studies in recurrent GBM defined the standard regimen as 200 mg/m² for 5 days every 28 days, with a response rate of 8% and PFS6 of 18%.36 Temozolomide was granted FDA approval for the treatment of recurrent anaplastic astrocytoma in 1999, and later for recurrent GBM. In 2005, temozolomide was also approved for the treatment of newly diagnosed GBM concomitantly with radiotherapy and then as maintenance treatment. This was based on the EORTC/NCIC randomized Phase III study that assessed concomitant and adjuvant temozolomide with radiotherapy versus radiotherapy alone as primary therapy for histologically confirmed GBM in patients who had undergone biopsy or resection, but excluded patients over 70 years of age. Temozolomide resulted in increased survival (hazard ratio 0.60, 95% confidence interval 0.46–0.79; P=0.0003) when compared with radiation only.37 This study defined the new standard of care for GBM. Subsequently, a subgroup analysis revealed that temozolomide only improved the outcome in patients with methylation of MGMT and not in those without.38 As temozolomide is an alkylating agent, its therapeutic benefit depends on its ability to alkylate/methylate DNA. This methylation damages DNA and triggers the death of tumor cells. However, some tumor cells are able to repair this type of DNA damage by expressing a protein known as O6-alkylguanine DNA alkyltransferase (AGT), encoded in humans by the MGMT gene, which diminishes the therapeutic efficacy of temozolomide. Therefore, GBM can be divided into two groups, one harboring MGMT promoters that repair DNA damage. Therefore, GBM patients with methylated MGMT respond better and live longer than those with non-methylated MGMT.38

In the recurrent setting, temozolomide improves progression-free survival and may have beneficial effects on quality of life, but does not improve overall survival.39 Other regimens with temozolomide have been evaluated, including two dose-dense regimens: one with temozolomide 100–150 mg/m² for 21 of 28 days and the other with 150 mg/m²...
for 7 of 14 days (7 days on/7 days off). A small Phase II study of the first regimen reported a response rate of 10% and PFS6 of 44%, and no correlation with MGMT status. The other dose-dense regimen, ie, the 21/28-day schedule, was evaluated in 18 patients with a response rate of 22%. However, in a randomized Phase II study, this regimen was found to be inferior to the standard regimen of 5 days every 28 days.

Polifeprosan 20 with carmustine
The polifeprosan 20 with carmustine implant, also known as the Gliadel® wafer, was granted orphan designation in 1989. At that time, the primary treatment for GBM was surgery followed by radiotherapy alone. Gliadel wafer implantation at the time of surgery could simplify the management logistics when compared with systemic chemotherapy, which at that time was not the standard of care. During surgery, the wafer is implanted in order to release carmustine in the tumor bed over a period of approximately 5 days. Several Phase II studies have reported Gliadel to be safe in GBM. Initial placebo-controlled Phase III studies of Gliadel were positive in the first-line setting (hazard ratio 0.65, 95% confidence interval 0.48–0.86, P=0.003). However, in recurrent GBM, placebo-controlled Phase III studies have failed to demonstrate a survival benefit, and based on a recent Cochrane review, Gliadel is not recommended for recurrent GBM. Nevertheless, a recent review by Olson et al recommended Gliadel wafers in the management of progressive glioblastoma as a surgical adjunct when cytoreductive surgery is indicated, taking into account the associated toxicities seen with this modality.

Carmustine
Carmustine, a nitrosourea, received orphan drug designation for the treatment of intracranial malignancies in 2000. Initial studies reported response rates of 15% and PFS6 of 17%, and a response of 6% with PFS6 of 13%. Carmustine has not been studied as an infusional drug in a Phase III trial, but has been extensively studied as the implantable Gliadel wafer.

Procarbazine
Procarbazine was granted orphan designation in 2006 for the treatment of malignant glioma. However, this agent had been approved by the FDA in 1969 for the treatment of Hodgkin’s lymphoma. Most studies of procarbazine in GBM have been in combination with a nitrosourea and vincristine (as the PCV regimen). Retrospective reports have shown modest response rates of 3%–11%, with PFS6 of 29%–38%. Only a few prospective Phase II studies have been performed in recurrent GBM. A study of 58 chemotherapy-naïve patients reported a response rate of 29%, including a 10% complete response rate and a PFS6 of 42%. The PCV combination is now approved by the FDA for the treatment of recurrent high-grade glioma and is often used as a control regimen in randomized Phase III studies. Still, the reported data only represent level III evidence.

Miscellaneous agents
Hypericin
Hypericin received orphan designation for the treatment of GBM in 2000. It is a natural compound found in the stems and petals of St John’s wort (*Hypericum perforatum*). A synthetic form is used in clinical trials, as a potent protein kinase C inhibitor. In a Phase II study of hypericin in recurrent high-grade glioma, only one partial response was observed in one of seven patients with anaplastic astrocytoma. The PFS6 was not reported.

Orphan drugs designated for other indications in clinical trials for GBM
Table 3 describes the key features of the agents reported in Table 2. Of special interest are studies with imatinib and hydroxyurea, since initial Phase II studies indicated favorable activity, and this combination was therefore evaluated in a randomized Phase III trial. A total of 240 patients with recurrent GBM were randomized to treatment with hydroxyurea alone or with hydroxyurea and imatinib. No differences between the two regimens were observed, with a PFS6 of 5% and 7%, respectively, and response rates of 2% and 1%, respectively. In addition, various combinations of bevacizumab and some of these agents have been performed, including combinations of EGFR inhibitors, but the data have not indicated any additional effect compared with bevacizumab alone.

Discussion
Recently, it has been shown that progression-free survival is a reasonable surrogate endpoint for the activity of new drugs. In most of the studies mentioned above, this endpoint for activity has been recorded. Based on that, only few agents with orphan drug designation in GBM have been approved. Temozolomide was initially approved for the treatment of recurrent GBM, but following the landmark study by Stupp et al in 2005, temozolomide was granted approval in newly diagnosed...
Adaptive resistance refers to the ability of a tumor to display anti-VEGF have been suggested, ie, adaptive and intrinsic. Progression. Classically, two main mechanisms of resistance to beneficial effects from anti-VEGF treatment, but all inevitably indication, since no survival benefit was documented. European Medicines Agency declined bevacizumab for this by the FDA for the treatment of recurrent GBM, whereas the vival was improved. Endpoint of improved survival, although progression-free sur combinations in order to improve efficacy of anti-VEGF treat the randomized pivotal Phase III study was underpowered, according to the Cochrane review, Gliadel wafers are not recommended for use in recurrent GBM. Procarnbazine is also approved by the FDA for recurrent GBM in combination with PCV. However, this combination does not result in significant response rates or better PFS6, and new agents are indeed warranted. Given that GBM is highly vascularized, many inhibitors of angiogenesis have been extensively evaluated, with special focus on identifying biomarkers to predict activity. Accordingly, the majority of the tested agents affect angiogenesis.

Addition of other agents to the “Stupp” regimen has failed to improve survival. Most recently, three randomized Phase III studies of bevacizumab failed to reach the primary endpoint of improved survival, although progression-free survival was improved. However, bevacizumab is approved by the FDA for the treatment of recurrent GBM, whereas the European Medicines Agency declined bevacizumab for this indication, since no survival benefit was documented.

Approximately one third of GBM patients experience beneficial effects from anti-VEGF treatment, but all inevitably progress. Classically, two main mechanisms of resistance to anti-VEGF have been suggested, ie, adaptive and intrinsic. Adaptive resistance refers to the ability of a tumor to display mechanisms (eg, as a result of upregulation of alternative angiogenic mechanisms) enabling it to evade anti-VEGF therapy, and intrinsic resistance refers to the ability of the tumor to be insensitive to anti-VEGF therapy as a result of genomic factors. The classical molecular subtype of GBM appears to respond more frequently to anti-VEGF, but in general this molecular resistance is not well understood and no molecular features have been identified that enable prediction of which patients should be treated. Upregulation of alternative angiogenic signaling pathways may be one resistance mechanism. Proangiogenic mechanisms might be stimulated by subpopulations of cancer cells and stromal cells (eg, pericytes and inflammatory cells) in the microenvironment, including fibroblast growth factor 2, delta-like ligand 4, stromal cell-derived factor 1, platelet-derived growth factor-α, angiopoietins, and placental growth factor Characterization of these mechanisms has led to new drug combinations in order to improve efficacy of anti-VEGF treatments that are currently being tested in clinical trials.

Several other mechanisms have been suggested, and in vivo studies and gene expression microarray data have shown that upregulation and activation of the tyrosine kinase c-mesenchymal-epithelial transition factor promotes tumor cell invasion in order to escape the pressure of antiangiogenic therapy. Therefore, targeting this factor in combination with antiangiogenic therapy might be effective in order to overcome resistance, and results from clinical trials are awaited.

Very recently, autocrine growth stimulation has been suggested as an important reason for tumor proliferation. Many
GBM cells express the VEGF receptor, and VEGF is produced by the tumor cells. It is therefore suggested that an autocrine loop exists and is responsible for tumor growth. Since bevacizumab does not cross the blood–brain barrier, autocrine growth stimulation will probably not be targeted.80

According to the definition of GBM as a rare disease, drugs developed for GBM may receive orphan drug designation. A few agents have been approved by the FDA for the treatment of high-grade gliomas following orphan drug designation, but many have failed to reach the market. However, some patients have benefited from receiving developmental agents within clinical trials. Biomarkers for selection of these may result in more success in the field in the new era of personalized medicine.

The number of orphan drug designations seems to keep increasing, and cancer drugs represent the majority as compared with drugs for more traditional rare diseases. This may be seen as an indicator of the success of the Orphan Drug Act, which was initiated in 1983. However, the overall huge expenses associated with most of these agents will require strict health planning and evidence-based guidelines.

Disclosure
The authors report no conflicts of interest in this work.

References


44. La Rocca RV, Hodes J, Villanueva WG, et al. A Phase II study of radiation with concomitant and then sequential temozolomide (TMZ) in patients with newly diagnosed supratentorial high-grade malignant glioma who have undergone surgery with carmustine (BCNU) wafer insertion. Neuro Oncol. 2007;9:391–500.


