

## THE DESIGN OF NEUTRON BEAMS FOR NEUTRON CAPTURE THERAPY

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Improved Federal support for neutron capture therapy in recent years has brought about a resurgence of activity in this field by researchers in various disciplines. Furthermore, encouraging clinical results from Japan in the treatment of glioblastoma multiforme and melanoma by neutron capture therapy has resulted in renewed enthusiasm for mounting a clinical trial of this treatment modality in the U.S. One area of intense activity world wide is the development of optimal neutron beams for neutron capture therapy for both shallow and deeply seated tumors. In this paper we will review the physical basis for the interaction of neutrons with tissue and the principles underlying the development of neutron beams for neutron capture therapy. In particular, the greater availability of sealed, high-activity  $^{223}\text{Ra}$  sources from US government laboratories has prompted a reappraisal of their suitability for neutron capture therapy.

### INTRODUCTION

Neutron capture therapy (NCT) is a binary form of radiation therapy originally conceived in 1936. It relies on initial targeting of tumor cells by an appropriate drug tagged with the stable isotope  $^{10}\text{B}$ , followed by irradiation of the local tumor site with low energy neutrons. When  $^{10}\text{B}$  absorbs a low energy neutron it ejects an energetic, short-range alpha particle which deposits most of its energy within the cell containing the original  $^{10}\text{B}$  atom. Therefore, if a higher concentration of  $^{10}\text{B}$  exists in tumor cells relative to other normal tissues, a selectively higher dose will be delivered to tumor cells during neutron irradiation.

In addition to the development of  $^{10}\text{B}$  labelled drugs for NCT, an important area of research in the field of NCT over the past years has been the optimization of "thermal" and "epithermal" neutron beams.<sup>1,2,3</sup> Thermal neutron beams (0–0.1 eV) are the original type of neutron beams that were used unsuccessfully in clinical trials of NCT for high-grade astrocytomas in the US in the 1950's and 1960's, and also are currently being used in the Japanese NCT clinical trials for high-grade astrocytomas and melanomas. These more recent clinical trials appear to be demonstrating a more favorable outcome than the earlier US ones.<sup>4</sup>

Unlike the familiar dose distribution pattern in tissue produced by conventional high energy X-ray beams, thermal neutron beams exhibit very rapid fall-off with depth in tissue, with a half-value thickness of approximately 1–1.5 cm, and negligible skin-sparing at the tissue surface. Consequently, the successful use of thermal neutron beams for neutron capture therapy of intracranial tumors generally requires that the tumor be relatively superficial and that normal radiosensitive superficial structures, such as scalp, skull and dura be surgically reflected during treatment. This essentially makes this type of NCT an intraoperative form of radiation therapy. More recently, it has been shown<sup>5</sup> that if

# Neutron Beam Design Development And Performance

## For Neutron Capture

**Ugo Amaldi, Börje Larsson**

## **Neutron Beam Design Development And Performance For Neutron Capture:**

**Neutron Beam Design, Development, and Performance for Neutron Capture Therapy** Otto K. Harling, John a. Bernard, Robert C. Zamenhof, 2013-03-08 For this Workshop the organizers have attempted to invite experts from all known centers which are engaged in neutron beam development for neutron capture therapy. The Workshop was designed around a series of nineteen invited papers which dealt with neutron source design and development and beam characterization and performance. Emphasis was placed on epithermal beams because they offer clinical advantages and are more challenging to implement than thermal beams. Fission reactor sources were the basis for the majority of the papers however three papers dealt with accelerator neutron sources. An additional three invited papers provided a summary of clinical results of Ncr therapy in Japan between 1968 and 1989 and overviews of clinical considerations for neutron capture therapy and of the status of tumor targeting chemical agents for Ncr. Five contributed poster papers dealing with NCT beam design and performance were also presented. A rapporteurs paper was prepared after the Workshop to attempt to summarize the major aspects, issues and conclusions which resulted from this Workshop. Many people contributed to both the smooth functioning of the Workshop and to the preparation of these proceedings. Special thanks are reserved for Ms Dorothy K. High-Grade Gliomas Gene H. Barnett, 2007-11-21. This is truly an exciting time in the field of neuro oncology particularly in the area of high grade gliomas. The management of patients with high grade gliomas has historically been one of the most challenging and disheartening fields in medicine where failure is the rule and longevity is the exception. The jaded often state that despite purported advances in surgical and radiotherapeutic techniques and a myriad of clinical trials of medical therapies the survival statistics for glioblastoma have not changed in the last three decades. The nihilism associated with these tumors is such that some practitioners still advise against treatment or even biopsy recommending palliative care with the diagnosis based only on history and an MRI scan. If the current state of the art in the diagnosis and management of high grade gliomas was truly so bleak there would be no reason to compile and publish a monograph on the subject. The fact is that we have recently entered an era where real progress is being made in our understanding and treatment of high grade gliomas that is directly benefiting some patients. We are slowly but surely chipping away at this problem. One approach has exploited correlations between particular molecular markers and therapeutic response. The first such breakthrough in high grade glioma was the observation that loss of chromosomes 1p and 19q uniformly predict chemosensitivity in anaplastic oligodendrogliomas 1.

Current Catalog National Library of Medicine (U.S.), 1991 First multi year cumulation covers six years 1965-70. Neurosurgical Standards, Cerebral Aneurysms, Malignant Gliomas Kurt Piscol, Margareta Klinger, Mario Brock, 2012-12-06 Three topics of major interest for neurosurgeons are covered in this volume of the Advances in Neurosurgery series as the title suggests. First neurosurgical standards of diagnosis and treatment are viewed from several points of view including the legal one. Second the many aspects of aneurysm surgery are dealt with timing and grading.

monitoring during the operation postoperative vasospasm Doppler sonography and new research in subarachnoid hemorrhage Third the diagnosis and treatment of malignant gliomas are discussed there are preliminary reports on interstitial laser assisted thermal therapy immunotherapy and radiopharmaceutical substances as well as the standard forms of neurosurgical and radiation treatment *Nuclear Science Applications* ,1981 **National Library of Medicine**

**Current Catalog** National Library of Medicine (U.S.),1991 *Neutron Dosimetry* H. G. Menzel,1997 *Hadrontherapy in Oncology* Ugo Amaldi,Börje Larsson,1994 This text provides an overview and analysis of the present state of research and development in hadrontherapy with the intention of promoting the clinical introduction of ion accelerator technology for the benefit of cancer patients in various parts of the world **Neutrons in Research and Industry** George Vourvopoulos,1997

*Advanced Techniques for Radiotherapy* Marco Castiglioni,Argeo A. Benco,1992 For physicians particularly oncologists and for specialists involved with the equipment or procedures of nuclear medicine describes the use of large nuclear installations to treat cancer Reviews the results obtained with neutrons produced by accelerators of different energies details the use of nuclear reactors for Boron Neutron Capture Therapy emphasizing the collaboration between disciplines surveys the experience of medium and high energy accelerators in various laboratories and the assesses the advantages of Synchrotron light emitted from large electron storage rings in both diagnosis and therapy No index Annotation copyright by Book News Inc Portland OR *ASTIA Subject Headings* Defense Documentation Center (U.S.),1959 **International Conference on Neutrons and Their Applications** Themis Paradellis,1995 **Nuclear Technology** ,1992

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