

society for neuro oncology 2022

Society for Neuro Oncology 2022: Advancements, Insights, and Impact on Brain Tumor Research

society for neuro oncology 2022 marked a pivotal moment for professionals, researchers, and clinicians dedicated to the complex field of neuro-oncology. This annual gathering brought together a diverse community focused on brain tumors, central nervous system cancers, and innovative treatments that continue to push the boundaries of what's possible in patient care and research. For anyone invested in understanding the latest developments in brain tumor biology, clinical trials, and patient outcomes, the Society for Neuro Oncology (SNO) 2022 conference was an unmissable event.

In this article, we'll explore the highlights from the Society for Neuro Oncology 2022 meeting, shedding light on the breakthroughs, discussions, and future directions that emerged. Along the way, we'll touch on related topics such as neuro-oncology clinical trials, multidisciplinary treatment approaches, and emerging technologies shaping this critical field.

What is the Society for Neuro Oncology?

Before diving into the specifics of the 2022 conference, it's important to understand the role of the Society for Neuro Oncology itself. Founded to foster collaboration among scientists and healthcare providers, SNO focuses exclusively on advancing knowledge and treatment options for brain and spinal cord tumors. Its members include neuro-oncologists, neurosurgeons, radiation oncologists, neuropathologists, radiologists, and basic scientists, all working together to improve patient outcomes.

The society hosts an annual meeting that serves as a critical platform for sharing the latest research findings, clinical trial results, and innovative treatment strategies. The 2022 event continued this tradition by embracing both in-person and virtual formats to maximize accessibility and engagement.

Key Highlights from Society for Neuro Oncology 2022

The 2022 meeting stood out for several reasons, including the unveiling of promising clinical trial data, discussions on personalized medicine, and advancements in molecular diagnostics. Let's break down some of the most impactful areas covered during the conference.

Innovations in Brain Tumor Research

One of the major themes at SNO 2022 was the rapid progress in understanding the molecular and genetic underpinnings of brain tumors. Researchers presented cutting-edge studies on glioblastoma, meningiomas, and pediatric brain tumors, highlighting how genomic profiling is transforming diagnosis and treatment planning.

Emerging biomarkers identified at the conference offer hope for more precise prognostic tools, helping clinicians tailor therapies based on individual tumor characteristics. This personalized approach was a recurring topic, emphasizing the shift away from one-size-fits-all treatments toward more targeted, effective interventions.

Clinical Trials and New Therapies

The Society for Neuro Oncology 2022 showcased several groundbreaking clinical trials, including novel immunotherapy approaches and targeted agents designed to overcome resistance mechanisms in aggressive brain tumors. For example, there was significant focus on checkpoint inhibitors and CAR T-cell therapies, which harness the patient's immune system to fight cancer more effectively.

Additionally, updates on combination therapies that integrate surgery, radiation, and systemic treatments demonstrated the importance of a multidisciplinary approach. These trials not only aim to improve survival rates but also prioritize quality of life, reflecting a holistic view of patient care.

Advances in Neuroimaging and Diagnostics

Accurate diagnosis and monitoring are essential in neuro-oncology, and the 2022 meeting highlighted impressive developments in neuroimaging techniques. Advanced MRI protocols, PET imaging, and AI-powered image analysis were discussed as tools that can enhance tumor detection, delineation, and treatment response assessment.

These technologies can reduce diagnostic ambiguity and enable earlier intervention, which is crucial for aggressive tumors like glioblastoma. The integration of imaging data with molecular profiles was also a hot topic, ushering in an era where comprehensive diagnostics guide every step of treatment.

The Impact of Multidisciplinary Collaboration

A defining feature of the Society for Neuro Oncology 2022 was the emphasis on collaborative care models. Brain tumors are complex diseases that require the expertise of various specialists to optimize outcomes. The conference sessions underscored how neurosurgeons, medical oncologists, radiation oncologists, neuropathologists, and supportive care teams are working more closely than ever.

Team-Based Approaches to Treatment

Discussions revealed that combining perspectives from different specialties leads to more nuanced treatment plans. For instance, surgical teams can tailor resections based on molecular tumor characteristics identified by pathologists, while radiation oncologists can adjust dosing strategies informed by imaging biomarkers.

This synergy improves not only survival rates but also minimizes side effects and preserves neurological function, which is vital for maintaining patients' quality of life.

Patient-Centered Care and Supportive Therapies

Beyond the technical aspects of treatment, Society for Neuro Oncology 2022 stressed the importance of addressing patients' holistic needs. Cognitive rehabilitation, psychological support, and symptom management were highlighted as integral components of comprehensive care.

Several presentations showcased innovative programs aimed at improving the day-to-day lives of patients and their families, reinforcing that neuro-oncology care extends well beyond tumor control.

Educational Opportunities and Networking at SNO 2022

The conference also provided a wealth of educational content for attendees, ranging from keynote lectures by world-renowned experts to interactive workshops and poster sessions. Early-career researchers found valuable mentorship opportunities, while seasoned professionals engaged in lively debates about emerging controversies and future research priorities.

Networking events, both virtual and in-person, facilitated connections that will likely fuel collaboration and innovation for years to come. The inclusivity of the event, embracing diverse disciplines and global perspectives, further enriched the experience.

Workshops and Skill Development

Hands-on workshops offered practical training in areas such as surgical techniques, molecular testing, and clinical trial design. These sessions were designed to equip participants with actionable skills they could apply immediately in their clinical or research settings.

Global Perspectives in Neuro-Oncology

Recognizing that brain tumor challenges transcend borders, SNO 2022 featured contributions from international experts. This global viewpoint highlighted disparities in access to care and research resources, fostering dialogue on how to bridge gaps and promote equity in neuro-oncology worldwide.

Looking Ahead: The Future of Neuro-Oncology Inspired by SNO 2022

The insights and connections forged at the Society for Neuro Oncology 2022 are already influencing ongoing research and clinical practice. The event underscored the rapid pace of innovation, especially in precision medicine, immunotherapy, and diagnostic technologies.

As researchers continue to unravel the complexities of brain tumors, future SNO meetings will likely build on these foundations, accelerating the translation of scientific discoveries into meaningful patient benefits.

For anyone involved in neuro-oncology—whether as a clinician, scientist, or patient advocate—the 2022 conference reinforced the importance of staying informed, collaborating across disciplines, and embracing new technologies to improve outcomes for those affected by these challenging diseases.

Frequently Asked Questions

What was the main focus of the Society for Neuro-Oncology 2022 annual meeting?

The main focus of the Society for Neuro-Oncology 2022 annual meeting was to present the latest research, clinical advancements, and treatment strategies in neuro-oncology, particularly concerning brain tumors and central nervous system cancers.

Who were the keynote speakers at the Society for Neuro-Oncology 2022 conference?

The keynote speakers at the Society for Neuro-Oncology 2022 included leading experts in neuro-oncology, neurosurgery, and neuroimmunology, featuring prominent figures such as Dr. Gelareh Zadeh and Dr. Susan Chang, who discussed cutting-edge developments in brain tumor research and patient care.

What new treatment approaches were highlighted at the Society for Neuro-Oncology 2022?

The conference highlighted new treatment approaches including immunotherapy advancements, targeted molecular therapies, and novel drug delivery systems aimed at improving outcomes for patients with glioblastoma and other malignant brain tumors.

How did the Society for Neuro-Oncology 2022 address challenges in brain tumor clinical trials?

At the 2022 meeting, experts discussed challenges in brain tumor clinical trials such as patient recruitment, trial design, and regulatory hurdles, emphasizing the need for adaptive trial models and increased collaboration to accelerate the development of effective therapies.

What role did multidisciplinary collaboration play in the Society for Neuro-Oncology 2022 discussions?

Multidisciplinary collaboration was a key theme at the 2022 conference, highlighting the importance of integrating neurosurgery, neuro-oncology, radiation oncology, neuropathology, and supportive care to optimize treatment plans and improve patient outcomes in neuro-oncology.

Additional Resources

Society for Neuro Oncology 2022: Advancements and Insights in Brain Tumor Research

society for neuro oncology 2022 marked a significant milestone in the field of neuro-oncology, bringing together leading experts, researchers, clinicians, and advocates united in the pursuit of improved understanding and treatment of brain tumors and related central nervous system malignancies. This annual gathering provided a comprehensive overview of the latest scientific breakthroughs, clinical trials, and emerging therapies shaping the landscape of neuro-oncology today. Through a detailed exploration of the conference's highlights, research presentations, and strategic discussions, the 2022 meeting underscored the evolving challenges and opportunities within this highly specialized domain.

In-depth Analysis of Society for Neuro Oncology 2022

The 2022 edition of the Society for Neuro Oncology (SNO) conference stood out for its multidisciplinary approach to tackling brain cancers, including gliomas, meningiomas, and metastatic brain tumors. Attendees represented a broad spectrum of specialties ranging from neurosurgery and radiation oncology to molecular biology and neuroimaging, reflecting the complex nature of these diseases.

A notable emphasis was placed on precision medicine, with several sessions dedicated to genomic profiling and personalized therapeutic strategies. The integration of next-generation sequencing and molecular diagnostics into routine clinical practice was a recurring theme, demonstrating how advances in genetic understanding are translating into more tailored patient care.

Moreover, the Society for Neuro Oncology 2022 highlighted the increasing role of immunotherapy in neuro-oncology. Although the brain's unique microenvironment poses challenges for immune-based treatments, researchers presented promising data on checkpoint inhibitors and vaccine approaches, shedding light on new avenues for enhancing anti-tumor immune responses.

Key Research Highlights and Breakthroughs

One of the standout presentations came from a multi-institutional study investigating the efficacy of combined targeted therapies in recurrent glioblastoma, a notoriously aggressive brain tumor with limited treatment options. The study's findings suggested improved progression-free survival when combining small molecule inhibitors targeting EGFR mutations with novel blood-brain barrier-penetrating agents. This development was particularly significant, considering the historical difficulties in delivering effective drugs across the blood-brain barrier.

Additionally, the conference showcased advances in imaging techniques, such as advanced MRI modalities and PET tracers, that enable better tumor characterization and treatment monitoring. Improved imaging protocols promise to refine surgical planning and radiotherapy targeting, potentially enhancing patient outcomes.

Educational Initiatives and Collaborative Efforts

Beyond cutting-edge research, the Society for Neuro Oncology 2022 placed strong emphasis on education and collaboration. Workshops and panel discussions addressed the importance of multidisciplinary tumor boards and patient-centered care models. These sessions underscored the necessity of integrating neurology, oncology, radiology, pathology, and supportive care services to optimize treatment plans and improve quality of life for patients.

Collaboration was another crucial theme, with the announcement of new international consortia aimed at pooling data and resources to accelerate research progress. Such partnerships are expected to facilitate larger clinical trials and foster innovation in therapeutic development.

Emerging Trends in Neuro-Oncology from SNO 2022

The conference revealed several emerging trends shaping the future of neuro-oncology:

- **Liquid Biopsies:** Researchers presented progress in detecting circulating tumor DNA (ctDNA) and extracellular vesicles in cerebrospinal fluid and blood, offering less invasive methods for diagnosis and disease monitoring.
- **Artificial Intelligence (AI) and Machine Learning:** AI-driven tools for image analysis and predictive modeling were highlighted as transformative technologies to enhance diagnostic accuracy and personalize treatment decisions.
- **Neurocognitive Preservation:** With survival rates improving for certain brain tumor patients, there was increased focus on minimizing treatment-related neurotoxicity and preserving cognitive function.

These trends reflect a growing recognition that effective brain tumor management requires not only extending life but also maintaining neurological function and quality of life.

Challenges Discussed at Society for Neuro Oncology 2022

While the conference celebrated numerous advances, it also acknowledged ongoing challenges in the field. One persistent issue is the heterogeneity of brain tumors, which complicates diagnosis and treatment standardization. Tumor microenvironment complexity and immune evasion mechanisms remain significant hurdles for effective immunotherapy.

Furthermore, access to novel therapies and clinical trials continues to be uneven globally, raising concerns about health disparities. Discussions at SNO 2022 highlighted the need for broader inclusion of diverse populations in research studies to ensure equitable progress.

The Role of Society for Neuro Oncology in Shaping Future Research

The Society for Neuro Oncology 2022 reinforced the organization's pivotal role as a catalyst for innovation and knowledge dissemination in neuro-oncology. By fostering a dynamic platform for scientific exchange, the society supports the acceleration of translational research from bench to bedside.

Initiatives launched or expanded during the conference, such as mentorship programs for early-career investigators and patient advocacy collaborations, further demonstrate the society's commitment to nurturing the next generation of neuro-oncology leaders and amplifying patient voices in research priorities.

As the field continues to evolve rapidly, the insights and partnerships forged at SNO 2022 will undoubtedly influence clinical practice guidelines and research agendas in the coming years.

The Society for Neuro Oncology 2022 thus stands as a testament to the collective endeavor to unravel the complexities of brain tumors and improve outcomes for patients worldwide. Through its comprehensive program and collaborative spirit, it has charted a course toward more effective, personalized, and compassionate neuro-oncological care.

Society For Neuro Oncology 2022

society for neuro oncology 2022: Diagnostik und Therapie neurologischer Erkrankungen Uwe Zettl, Jörn Peter Sieb, 2024-01-25 In diesem Band erfahren Sie alles Wissenswerte über die neuesten Erkenntnisse zu Diagnostik und Therapie der häufigsten neurologischen Erkrankungen. Sie erhalten kompakte, evidenzbasierte Informationen über die jeweiligen Krankheitsbilder und, daraus abgeleitet, klare Empfehlungen für ein leitliniengerechtes Vorgehen. Übersichtliche Kästen mit Wichtige Neuigkeiten auf einen Blick fassen die aktuellen Studien, Forschungsergebnisse und Diskussionen kompakt und präzise zusammen. Tabellen mit Übersichten zum Krankheitsbild sowie zahlreiche anschauliche Abbildungen und Schemata unterstützen Sie dabei, sich das Wichtigste zu merken, mögliche Fallstricke zu vermeiden und so zu einer sicheren Diagnose und Therapie zu kommen. Neu in der 6. Auflage: - Alle Inhalte komplett überarbeitet, ergänzt und aktualisiert - Neue Abschnitte zu zerebralen Sehstörungen / Pupillenstörungen / Radikulären Syndromen / Speichererkrankungen / anderen entzündlichen nichtinfektiösen Erkrankungen des Nervensystems / - Kurze Videosequenzen und Animationen bei einzelnen Kapiteln sowie die komplette Literatur – abrufbar über QR-Code Das Buch eignet sich für: Weiterbildungsassistent*innen und Fachärzt*innen der Fachgebiete - Neurologie - Nervenheilkunde - Psychiatrie und Psychotherapie

society for neuro oncology 2022: Neuropsychological and Psychosocial Foundations of Neuro-Oncology Herbert B. Newton, Ashlee R. Loughan, 2024-08-05 Neuropsychological & Psychosocial Foundations of Neuro-Oncology provides an in-depth review of common cognitive, psychological, and social manifestations that occur in patients with brain cancer and other neuro-oncological issues. Chapters discuss primary CNS tumors, brain metastases, leptomeningeal disease, paraneoplastic disorders, and many other topics. Effects of CNS and systemic cancer treatment (i.e., radiotherapy, chemotherapy, immunotherapy) are also examined, as well as current practices for rehabilitation and targets for essential future interventions in vulnerable populations. This book is fully illustrated with pathology photomicrographs, CT and MRI images, tables, and molecular pathway diagrams. Bringing neuropsychological and behavioral health trial knowledge from the bench to the bedside, this volume is an essential reference for practicing neuro-oncologists, neuropsychologists, nurses, and others working in the field of neuro-oncology. - Discusses the neurocognitive implications of brain and systemic cancer treatments - Examines the foundations of neuropsychological testing and daily life implications, including caregiver support - Covers the psychosocial implications of brain cancer, psychotherapeutic interventions, and cognitive

rehabilitation

society for neuro oncology 2022: Goldman-Cecil Medicine E-Book Lee Goldman, Kathleen A. Cooney, 2023-07-15 For more than 95 years, Goldman-Cecil Medicine has been the authoritative source for internal medicine and the care of adult patients. Every chapter is written by acclaimed experts who, with the oversight of our editors, provide definitive, unbiased advice on the diagnosis and treatment of thousands of common and uncommon conditions, always guided by an understanding of the epidemiology and pathobiology, as well as the latest medical literature. But Goldman-Cecil Medicine is not just a textbook. It is designed to optimize electronic searches that will rapidly take you to exactly the information you are seeking. Throughout the lifetime of each edition, periodic updates continually include the newest information from a wide range of journals. Furthermore, Goldman-Cecil Medicine is available for all users of ClinicalKey, Elsevier's full library of subspecialty textbooks that can be accessed by readers who may want even more in-depth information. - More than 400 chapters authored by a veritable Who's Who of modern medicine - A practical, templated organization with an emphasis on up-to-date, evidence-based references - New chapters on Population Health, Effects of Climate Change on Health, Bradycardias, Transgender Medicine, Whipple Disease, COVID-19 Virology and Pathobiology, COVID-19 Epidemiology/Clinical Manifestations/Diagnosis/Community Prevention, COVID-19 Treatment and Vaccination, Polyomaviruses, and more - Thousands of algorithms, figures, and tables that make its information readily accessible - Over 100 supplementary videos, heart sounds, and key references - Available in print and on a variety of electronic devices - Continuously updated by Lee Goldman, MD - An eBook version is included with purchase. The eBook allows you to access all of the text, figures, and references, with the ability to search, customize your content, make notes and highlights, and have content read aloud.

society for neuro oncology 2022: Application of Emerging Technologies in the Diagnosis and Treatment of Patients with Brain Tumors: New Frontiers in Imaging for Neuro-oncology Domenico Aquino, Valentina Pinzi, Camilla Russo, Vincenzo Di Nunno, Elena De Martin, 2025-06-18 Continued advancements in medical imaging systems have significantly enhanced our ability to timely and accurately visualize body tissues and disease-related processes. Such advancements are gradually responding to a pressing need for personalized medicine, representing an always more pervasive urgency in every medical field; this is all the more true with regard to neuro-oncology, and physicians have now to deal with it. This shift toward precision medicine, defined as the right treatment for the right patient at the right time, has called for innovative approaches to provide aggregation of different techniques, different disciplines, and different professionals, in order to ensure to patients with brain tumors the highest efficacy in both diagnostic and therapeutic capabilities. In this interdisciplinary or cross-disciplinary vision of neuro-oncology, brain imaging represents a compelling source of crucial information used by clinicians and surgeons, and the flourishing of scientific literature based on image post-processing analysis, artificial intelligence, radiomics, and other fast-growing automations in data analysis has been revolutionizing the way of both understanding and applying neuroimaging for treatments. This Research Topic aims to deepen the readers' understanding of novel medical imaging techniques and image-guided procedures for brain tumors' diagnosis and treatment, or rather integrating these advancements into clinical practice. In this light, it will provide new insights on the latest strides in medical imaging for brain tumors' diagnosis and therapeutic management. This Research Topic will also focus on the importance of the combination of different techniques from various clinical domains, to fulfill their potential in a pluralist approach that might lead to a more personalized therapy in patients with brain neoplasms; in that regard, of special interest will be the fast-evolving field of artificial intelligence in neuro-oncology and neuro-oncological imaging.

society for neuro oncology 2022: Cerebral Metastases: Translational Advances, Evaluation and Management, 2025-06-20 Cerebral Metastases: Translational Advances, Evaluation and Management, Volume 165 in this ongoing series, highlights new advances in the field, with this new volume covering many interesting topics, including Molecular Drivers in CNS

metastasis, Role of the tumor microenvironment in CNS metastatic disease, Advanced Imaging to improve early diagnosis and evaluate treatment response, Liquid biopsy in early detection of CNS metastasis, Precision medicine approaches to CNS metastatic disease, IMRT/conventional RT, Single and hypofractionated SRS, Brachytherapy for recurrent metastases, LITT for treatment of active brain metastasis and radiation necrosis, and much more. Other topics covered include Minimally-invasive surgical approaches in the management of brain metastases. - Provides the latest information on cancer research and metastasis - Offers outstanding and original reviews on a range of cancer research topics - Serves as an indispensable reference for researchers and students alike

society for neuro oncology 2022: Global Neurosurgery, An Issue of Neurosurgery Clinics of North America, E-Book Michael M. Haglund, Robert J. Dempsey, 2024-09-10 In this issue of Neurosurgery Clinics, guest editors Drs. Robert J. Dempsey and Michael M. Haglund bring their considerable expertise to the topic of Global Neurosurgery. Top experts in the field cover the delivery of neurosurgical care in a variety of settings, discussing topics such as worldwide need and disparities; medical curriculum development for a worldwide curriculum for neurosurgery; continuing medical education for graduates; key partners in global health; bioengineering in global health; and much more. - Contains 16 relevant, practice-oriented topics including overview on global neurosurgery; global neurosurgery and international policy; establishing microsurgical skills laboratories in low- and middle-income countries and partnering through WIFI for remote teaching; establishing the trainee in their first program; traumatic brain injury and the early development of a neurosurgical program; and more. - Provides in-depth clinical reviews on global neurosurgery, offering actionable insights for clinical practice. - Presents the latest information on this timely, focused topic under the leadership of experienced editors in the field. Authors synthesize and distill the latest research and practice guidelines to create clinically significant, topic-based reviews.

society for neuro oncology 2022: Primary Brain Tumors in Adults: Advances in Mechanistic Understanding, Evaluation, and Management, 2025-07-01 Primary Brain Tumors in Adults: Advances in Mechanistic Understanding, Evaluation, and Management, Volume 166 in the Advances in Cancer Research series, highlights new advances in the field, with this new volume presenting interesting chapters on a variety of timely topics, including Molecular drivers in primary brain tumor formation, Novel CSF pathways in the glioma (DIPG), Volumetric analysis in low grade gliomas and other advanced MR imaging techniques, Liquid biopsy in the diagnosis of primary brain tumors, Intraoperative imaging techniques to improve tumor detection, and much more. Additional chapters focus on Supramaximal resection in primary brain tumors, Radiotherapeutic approaches: IMRT, re-irradiation, Molecularly driven therapies in the treatment of primary brain tumors, and Changes in the immune microenvironment and immunotherapeutic strategies in the treatment of gliomas. - Provides the latest information on Primary Brain Tumors in Adults - Offers outstanding and original reviews on a range of cancer research topics - Serves as an indispensable reference for researchers and students alike

society for neuro oncology 2022: ELSEVIER ESSENTIALS Palliativmedizin Ulrich Wedding, Stefan Fuxius, 2023-06-02 Das Buch unterstützt Sie dabei, mit Sterbenden sowie schwer Erkrankten und deren Angehörigen sicher und kompetent umzugehen. Dabei geht es um grundlegende Kenntnisse der Palliative Care, Themen wie Sterbewunsch und Sterbebegleitung, kulturelle Unterschiede, Total-Pain-Konzept sowie Lebensqualität und Lebenssinn. Die Autor*innen kommen aus unterschiedlichen Disziplinen von der Onkologie bis zum Bestattungswesen. Elsevier Essentials Palliativmedizin informiert Sie auch über die verschiedenen Ansätze bei der Symptombehandlung, dem Umgang mit Krankheitsverläufen sowie den Möglichkeiten Beschwerden zu lindern. Das Buch eignet sich für: - Ärzt*innen und Sterbebegleiter*innen mit palliativen Patient*innen

society for neuro oncology 2022: Neurosurgery's Frontline Role in Gliomas Treatment Daniele Armocida, Diego Garbossa, Maurizio Salvati, 2025-05-31 Gliomas are an incurable disease of the central nervous system. In recent years, important milestones have been achieved in understanding the pathogenetic and molecular mechanisms of gliomas, with numerous oncological,

molecular and neuroradiological studies. The first important therapeutic step, however, remains surgery. The neurosurgeon is almost always the first specialist who poses the diagnostic suspicion and takes charge of the patient, and a radical and safe surgical intervention greatly influences the patient's prognosis. The different surgical approach strategies, new technologies and trends are summarised in this volume. Edited by a leading expert in the field and authored by a team of recognised specialists, this book addresses all the most important updates on the understanding of gliomas, analyses them from all perspectives and studies their neurosurgical aspect. It will be a valuable resource for neurosurgeons, medical oncologists, neuro-oncologists and neurologists.

society for neuro oncology 2022: 365 Days of Progress In Neuro-Oncology and Neurosurgical Oncology David D. Eisenstat, Erik P. Sulman, 2023-10-02 "365 Days of Progress" is part of a wider series of Research Topics across Frontiers in Oncology, hosted by our Specialty Chief Editors, showcasing popular articles from 2021 igniting interest in the field. This Research Topic aims to highlight the work featured and spark further discussion. The Neuro-Oncology and Neurosurgical Oncology field is continuously evolving, therefore we are seeking to understand developments and perspectives on articles that have attracted attention throughout the year. We welcome Opinions, Perspectives, and Mini-Review article types to facilitate this discussion. We also welcome updated original data following the research featured in this collection. Please note only papers that are relevant and add a significant contribution to the discussion articles will be considered. The chosen manuscripts are : - Case Report: End-Stage Recurrent Glioblastoma Treated With a New Noninvasive Non-Contact Oncomagnetic Device - A Phase 2 Randomised Clinical Trial Assessing the Tolerability of Two Different Ratios of Medicinal Cannabis in Patients With High Grade Gliomas - Evolution of Experimental Models in the Study of Glioblastoma: Toward Finding Efficient Treatments - The Role of Microglia in Glioblastoma - A Review of Newly Diagnosed Glioblastoma - A Position Statement on the Utility of Interval Imaging in Standard of Care Brain Tumour Management: Defining the Evidence Gap and Opportunities for Future Research - Surgical Management of Tentorial Notch Meningioma Guided by Further Classification: A Consecutive Study of 53 Clinical Cases - Development of a Nomogram Based on Preoperative Bi-Parametric MRI and Blood Indices for the Differentiation Between Cystic-Solid Pituitary Adenoma and Craniopharyngioma

society for neuro oncology 2022: Principles and Practice of Neurocritical Care Hemanshu Prabhakar, Vasudha Singhal, Kapil G Zirpe, Harsh Sapra, 2024-05-31 This official textbook of the Society of Neurocritical Care (SNCC) comprises a comprehensive review of all possible neurologic conditions that one may encounter in the practice of neuro-intensive care. It covers various topics, from the history and origin of neuro-intensive care to psychological and nursing care. Neurocritical care is the intensive care management of patients with life-threatening neurological and neurosurgical illnesses such as massive stroke, bleeding in or around the brain (subarachnoid hemorrhage, intracerebral hemorrhage, subdural hemorrhage, intraventricular hemorrhage), brain tumors, brain trauma, status epilepticus, nerve and muscle diseases (myasthenia gravis, Guillain-Barre Syndrome), spinal cord disorders and the cardiopulmonary complications of brain injury. Neurocritical care units specialize in managing the unique needs of such critically ill patients. The textbook is divided into many sections. Chapters discuss issues related to palliative care and describe some of the commonly performed procedures in the neuro-intensive care unit as well. It provides a straightforward and systematic approach to various clinical problems encountered during intensive care management of neurologic patients. It includes a separate section on special considerations in neurocritical care. The book includes ample figures, flowcharts and algorithms. The textbook is a valuable resource for residents, fellows and trainees in neuroanesthesia, neurointensive care, critical care, and anesthesia. It serves as a quick guide to all intensivists managing neurosurgical patients. It is also helpful for general intensivists who occasionally manages neurologic patients.

society for neuro oncology 2022: Precision Medicine Approaches in Radiotherapy and Systemic Therapy of Brain Metastases Matthias Guckenberger, Anna Berghoff, David Kaul,

2023-05-16

society for neuro oncology 2022: Swaiman's Pediatric Neurology - E-Book Stephen Ashwal, Phillip L. Pearl, 2025-05-09 **Selected for 2025 Doody's Core Titles® in Pediatrics and with Essential Purchase designation in Neurology**For fifty years, experienced clinicians and physicians in training have relied on Swaiman's cornerstone text as their #1 source for authoritative guidance in pediatric neurology. Swaiman's Pediatric Neurology: Principles and Practice, Seventh Edition, continues this tradition of excellence under the expert editorial direction of Drs. Stephen Ashwal and Phillip L. Pearl, along with a team of key leaders in the field who serve as associate and section editors in their areas of expertise. Thorough revisions—including new chapters, new videos, new editors, and expanded content—bring you up to date with this dynamic field. - Contains new sections on global child neurology and environment and brain development and a greatly expanded section on neurogenetics, in addition to new chapters on autoimmune epilepsies, immune-mediated movement disorders, and more. - Offers expanded online content, including additional figures, tables, and text, as well as new personal introductory videos by many chapter authors. - Covers new, emerging, or controversial topics such as COVID-19, teleneurology, environment and brain development, immune-mediated disorders of the nervous system, functional neurological disorders in children, nonverbal learning disorders, and the pharmacological and future genetic treatment of neurodevelopmental disabilities. - Provides authoritative coverage of perinatal acquired and congenital disorders, neurodevelopmental disabilities, extensive sections on pediatric epilepsy and movement disorders, nonepileptiform paroxysmal disorders, and disorders of sleep. - Features nearly 3,000 line drawings, photographs, tables, and boxes that highlight the text, clarify key concepts, and make it easy to find information quickly.

society for neuro oncology 2022: The Involvement of Systemic Homeostasis in Tumour Biology Wei-Lin Jin, Hongying Pan, Qian Wang, Gerhard Schmalz, 2023-10-13 Systemic homeostatic mechanisms include several aspects, such as metabolic, neuroendocrine, immune, and physiological homeostasis. Irreversible damage or reversible imbalance of such homeostatic processes may initiate cancers by altering the regulation of the molecular machinery. Systemic homeostasis-related genes have been found to be intimately involved in oncological processes and in some instances have shown prognostic value. Thus, future gene targeting approaches for cancer should not only focus on classical cancer drivers but also address systemic homeostasis-related genetic mechanisms. Identification of systemic homeostasis-related genes with diagnostic, prognostic or therapeutic value can advance translational cancer research. Increasing numbers of research studies have reported systemic homeostasis-related genes' relevance to various types of cancer. For example, cancer cells have been shown to activate a critical mechanism of oxygen homeostasis—hypoxia inducible factors (HIFs) family genes, in order to adapt to the tumor microenvironment and develop into a more aggressive phenotype. In addition, methylene tetrahydrofolate dehydrogenase (MTHFD) family genes are involved in mitochondrial one-carbon metabolism, which is essential for maintaining systemic metabolic homeostasis, and have recently been found overexpressed in many cancers and have been correlated to poor survival outcomes. The overexpression of transferrin family genes with iron transporting function has been linked with iron accumulation, which is a known initiating factor in cancer. Another example is Forkhead box O (FOXO) family genes, which serve as a critical regulator of immune homeostasis and can regulate cancer immunity by negatively regulating the expression of immunosuppressive gene-programmed death 1 ligand 1 (PD-L1). Apart from these examples, other systemic homeostatic mechanisms such as glucose homeostasis, energy homeostasis, lipid homeostasis, phosphate homeostasis, cholesterol homeostasis, and mineral homeostasis may also be implicated in cancer pathogenesis. Although accruing research is focused on describing systemic homeostatic mechanisms in cancer biology, several research questions remain unaddressed. The utilization of recent analytic tools and bioinformatics as systems biology approaches has the potential to address these research gaps. Therefore, in this special issue we will collect articles focusing on the application of bioinformatics and systems biology based investigations of systemic homeostatic mechanisms in malignant diseases. Both original research

and review articles are welcomed, however publications based on the analysis on only one database will not be accepted (e.g. TCGA).

society for neuro oncology 2022: Integrating Health-Related Quality of Life in Neuro-Oncology Maria Teresa Pedro, Peter Hau, Carolin Weiss Lucas, Christine Jungk, Martina Messing-Jünger, 2025-04-25 Health-Related Quality of Life (HRQoL) in neuro-oncological patients is a complex and multifaceted area of study that intersects medicine and health. It is influenced by a range of factors, including physical, emotional, and cognitive aspects. Despite the growing interest in this field, driven by the concept of precision medicine, the integration of HRQoL principles into everyday clinical decision-making remains a challenge. This is particularly true in the context of neuro-oncological diseases and other life-changing neurological impairments. The need for a paradigm shift in clinical practice is evident, as the current approach often overlooks the importance of maintaining patients' general well-being, as emphasized in the revised Geneva Declaration of 2017. The primary objective of this research topic is to provide an integrative, up-to-date overview of HRQoL in adult and pediatric patients with neuro-oncological diseases. This includes diseases affecting both the central and peripheral nervous system. The research aims to shed light on the significant impact of diagnosis, prognosis, and potential toxicity of therapies on patients' HRQoL and daily-living activities. It also seeks to explore the uneven integration of advances in radiation oncology, immuno- and chemotherapy, advanced neuroimaging, and neuromodulation into clinical practice. The research will focus on the specific challenges of HRQoL in neuro-oncological populations, which have often been marginalized within the broader context of cancer.

society for neuro oncology 2022: Systemic immune dysregulation in malignant disease: Insights, monitoring and therapeutic exploitation Petros Christopoulos, Udo S. Gaipl,

society for neuro oncology 2022: Community series in combining chemo/radio therapy and immunotherapy for cancers— perfect mix of old and new, volume II Jian Zhang, Linlang Guo, Feng-Ming (Spring) Kong, Clare Y. Slaney, 2023-08-23

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