

nihss spanish

nihss spanish: Una Guía Completa para la Evaluación del NIHSS en Pacientes de Habla Hispana

El NIHSS (National Institutes of Health Stroke Scale) es una herramienta crucial en la evaluación clínica de pacientes que han sufrido un accidente cerebrovascular (ACV). La escala permite a los profesionales de la salud determinar la gravedad del accidente, guiar las decisiones de tratamiento y monitorizar la evolución del paciente. Sin embargo, para los profesionales que trabajan en entornos hispanohablantes o con pacientes que hablan español, es fundamental contar con una versión adecuada y validada en español del NIHSS. En este artículo, exploraremos todo lo que necesitas saber sobre el NIHSS en español, incluyendo su historia, importancia, procedimientos, interpretación y recursos disponibles.

¿Qué es el NIHSS y por qué es importante en la evaluación del ACV?

El NIHSS fue desarrollado por el Instituto Nacional de Trastornos Neurológicos y Accidentes Cerebrovasculares (NINDS) en Estados Unidos con el propósito de estandarizar la evaluación clínica de los síntomas neurológicos en pacientes con sospecha de ACV. La escala evalúa varias funciones neurológicas, incluyendo la conciencia, la vista, el movimiento, la coordinación y el habla.

Importancia del NIHSS:

- Detección temprana del ACV: Permite identificar rápidamente la gravedad del accidente.
- Decisión terapéutica: Ayuda a determinar si un paciente es candidato a intervenciones como la trombectomía o la administración de trombolíticos.
- Seguimiento y pronóstico: Facilita monitorear la evolución clínica y predecir resultados a largo plazo.
- Investigación clínica: Es un estándar en estudios y ensayos relacionados con el ACV.

La versión en español del NIHSS: historia y validación

El NIHSS fue originalmente desarrollado en inglés, pero dada la prevalencia del ACV en países de habla hispana y la necesidad de herramientas confiables en diferentes idiomas, se han realizado esfuerzos para traducir y validar la escala en español.

Historia y desarrollo:

- La primera traducción y adaptación del NIHSS al español se realizó en los años 2000, en países como México, España y Argentina.
- La validación de la versión en español incluyó estudios con pacientes hispanohablantes para asegurar la equivalencia cultural y lingüística.
- La escala en español ha sido validada en múltiples estudios, demostrando su fiabilidad y sensibilidad similar a la versión original.

Importancia de la validación:

- Garantiza que los resultados sean precisos y reproducibles.
- Facilita su uso en diferentes entornos clínicos hispanohablantes.
- Permite comparaciones internacionales en investigaciones multicéntricas.

Componentes y estructura del NIHSS en español

El NIHSS en español mantiene la misma estructura y componentes que la versión original, evaluando aspectos clave del déficit neurológico en pacientes con ACV. La escala consta de 15 ítems que cubren diferentes dominios neurológicos:

1. Conciencia

- Nivel de conciencia (alerta, somnoliento, coma).

2. Orientación

- Orientación en tiempo, lugar y persona.

3. Respuestas motoras

- Movimientos en extremidades superiores e inferiores.

4. Inspección visual

- Visión, campo visual y pares oculares.

5. Movimientos de ojos

- Movimientos conjugados, párpados y respuesta pupilar.

6. Extensión y flexión

- Respuesta motora en extremidades.

7. Habla

- Calidad de la expresión verbal y comprensión.

8. Disartria

- Claridad del habla.

9. Ataxia

- Coordinación y equilibrio.

10. Hemianopsia

- Pérdida de campo visual en un lado.

11. Negligencia hemisférica

- Ignorar o no reconocer estímulos en uno de los lados del cuerpo.

12. Extensión de la extremidad

- Respuesta motora en extremidades.

13. Respuestas motoras

- Movimientos en extremidades superiores e inferiores.

14. Respuesta sensorial

- Percepción del estímulo sensorial.

15. Puntuación total

- Suma de los ítems, con un máximo de 42 puntos, donde valores más altos indican mayor gravedad del ACV.

Procedimiento para administrar el NIHSS en español

La administración del NIHSS en español requiere entrenamiento y práctica para asegurar la precisión y fiabilidad de los resultados. Aquí te presentamos una guía paso a paso:

1. Preparación:

- Explicar al paciente el procedimiento.
- Asegurar un ambiente tranquilo y cómodo.
- Tener a mano la versión en español del NIHSS y materiales necesarios (linternas, objetos para estímulos, etc.).

2. Evaluar la conciencia y orientación:

- Comenzar evaluando el nivel de conciencia y orientación en tiempo, lugar y persona.

3. Realizar pruebas motoras y sensoriales:

- Evaluar fuerza, coordinación, reflejos y percepción sensorial en extremidades.

4. Evaluar la visión y el habla:

- Revisar campo visual, movimientos oculares, expresión verbal y comprensión.

5. Registrar y puntuar:

- Anotar las respuestas del paciente para cada ítem.
- Sumar los puntos para obtener la puntuación total.

6. Interpretación:

- Puntuaciones de 0 indican ausencia de déficits.
- Puntuaciones de 1-4 sugieren déficits leves.
- Puntuaciones de 5-15 indican déficits moderados.
- Puntuaciones mayores a 15 reflejan déficits severos.

Nota importante: La administración del NIHSS debe ser realizada por profesionales capacitados en neurología o medicina de urgencias.

Interpretación y uso clínico del NIHSS en español

La interpretación adecuada de la puntuación del NIHSS en pacientes hispanohablantes es esencial para tomar decisiones clínicas informadas. Algunas recomendaciones:

- Puntuaciones bajas (0-4): generalmente indican un accidente menor o un déficit leve; puede considerarse la observación y seguimiento.
- Puntuaciones moderadas (5-15): requieren atención especializada y posible intervención activa, como la administración de trombolíticos.
- Puntuaciones altas (>15): sugieren un ACV severo y la necesidad de intervención urgente y posibles cuidados intensivos.

Además, el NIHSS en español se utiliza para:

- Evaluar la elegibilidad para tratamientos trombolíticos o endovasculares.
- Monitorizar la evolución clínica durante y después del tratamiento.
- Predecir el pronóstico funcional a largo plazo.

Recursos y materiales disponibles en español

Para facilitar el uso del NIHSS en español, existen diversos recursos en línea y en papel, incluyendo:

- Versiones traducidas y validadas del NIHSS en español, disponibles a través de instituciones como la Sociedad Española de Neurología y la Sociedad Mexicana de Neurología.

- Manual de administración del NIHSS en español, que incluye instrucciones detalladas y ejemplos.
- Cursos de capacitación y certificación en la administración del NIHSS en español, tanto presenciales como en línea.
- Aplicaciones digitales que permiten realizar la escala en dispositivos móviles y guardar registros clínicos.

Conclusión

El NIHSS en español es una herramienta esencial para la evaluación rápida, confiable y estandarizada del accidente cerebrovascular en pacientes de habla hispana. La correcta traducción, validación y entrenamiento en su uso aseguran que los profesionales de la salud puedan tomar decisiones clínicas fundamentadas, mejorar la atención y optimizar los resultados de los pacientes. La disponibilidad de recursos en español y la familiarización con la escala son pasos importantes para ampliar su uso en entornos clínicos hispanohablantes y contribuir a una mejor gestión del ACV en estos países.

Si trabajas en neurología, emergencias o atención primaria, familiarizarte con el NIHSS en español y mantenerte actualizado con las guías y recursos disponibles, marcará la diferencia en la atención que brindas a tus pacientes.

Frequently Asked Questions

¿Qué es el NIHSS y para qué se utiliza en la práctica clínica?

El NIHSS (National Institutes of Health Stroke Scale) es una herramienta de evaluación utilizada para medir la gravedad de un accidente cerebrovascular y monitorizar cambios en el estado neurológico del paciente.

¿Dónde puedo encontrar una versión en español del NIHSS para su uso en hospitales hispanohablantes?

Existen varias versiones validadas en español del NIHSS disponibles en línea a través de instituciones médicas y organizaciones de neurología, que facilitan su uso en entornos clínicos en países hispanohablantes.

¿Cuál es la importancia de usar el NIHSS en pacientes con sospecha de accidente cerebrovascular en países hispanohablantes?

El uso del NIHSS en pacientes hispanohablantes permite una evaluación rápida y estandarizada de la gravedad del ACV, facilitando decisiones clínicas tempranas y mejorando los resultados del paciente.

¿Cómo puedo aprender a administrar correctamente el NIHSS

en español?

Se recomienda realizar cursos de formación certificados, consultar guías oficiales en español y practicar con casos clínicos para dominar la administración adecuada del NIHSS.

¿Qué puntuación en el NIHSS indica un accidente cerebrovascular severo en pacientes hispanohablantes?

Una puntuación elevada, típicamente superior a 15, indica un accidente cerebrovascular severo, aunque la interpretación debe considerar el contexto clínico y otros factores.

¿Existen aplicaciones móviles en español que ayuden a administrar el NIHSS en atención de emergencia?

Sí, hay varias aplicaciones en español disponibles para dispositivos móviles que guían en la administración del NIHSS, facilitando su uso en situaciones de emergencia.

¿Cuál es la validez del NIHSS en poblaciones hispanohablantes?

El NIHSS ha sido validado en diferentes poblaciones hispanohablantes, demostrando confiabilidad y precisión en la evaluación de accidentes cerebrovasculares en estos grupos.

¿Qué recursos en línea en español puedo consultar para entender mejor el NIHSS?

Puedes consultar recursos oficiales, guías clínicas, tutoriales en video y artículos académicos en plataformas de salud que están disponibles en español y explican detalladamente el uso del NIHSS.

Additional Resources

NIHSS Spanish: Una evaluación integral del accidente cerebrovascular en el ámbito hispanohablante

El NIHSS Spanish representa una adaptación crucial del National Institutes of Health Stroke Scale (NIHSS), diseñada para facilitar la evaluación clínica del ictus en pacientes hispanohablantes. La importancia de esta herramienta no solo radica en su capacidad para estandarizar la valoración neurológica, sino también en su papel fundamental para mejorar el pronóstico y la toma de decisiones médicas en poblaciones de habla hispana. En este artículo, exploraremos en detalle qué es el NIHSS, su relevancia en la práctica clínica, cómo ha sido adaptado para su uso en español, y el impacto que tiene en la gestión del accidente cerebrovascular en países hispanohablantes.

¿Qué es el NIHSS y por qué es fundamental en la

evaluación del ictus?

Definición y propósito del NIHSS

El NIHSS es una escala clínica utilizada para cuantificar la gravedad de un ictus mediante la evaluación de diversas funciones neurológicas. Creada en 1989 por un grupo de expertos del National Institutes of Health, esta herramienta proporciona una puntuación que refleja la severidad del daño neurológico, permitiendo a los profesionales de salud:

- Estimar el pronóstico del paciente.
- Determinar la elegibilidad para tratamientos específicos, como la trombólisis.
- Monitorear la evolución clínica en el tiempo.
- Facilitar la comunicación entre equipos médicos.

El NIHSS evalúa funciones como la conciencia, la visión, la motricidad, la sensibilidad, el lenguaje y otras habilidades neurológicas, en un intento de ofrecer una evaluación rápida, precisa y reproducible.

Componentes de la escala

La escala consta de 15 ítems que miden diferentes aspectos neurológicos, cada uno con un puntaje asignado que va desde 0 (normal) hasta niveles que indican mayor gravedad. Estos ítems incluyen:

1. Nivel de conciencia
2. Orientación
3. Respuesta motora
4. Respuesta facial
5. Movilidad de las extremidades
6. Sensibilidad
7. Lenguaje y habla
8. Disartria
9. Extinción y negligencia
10. Campos visuales
11. Ojos
12. Hemianopsia
13. Extensión y flexión
14. Ataxia
15. Prueba de reflejos

La suma de estos ítems proporciona una puntuación total que oscila entre 0 y 42 puntos; valores más altos indican mayor gravedad del ictus.

Importancia de la adaptación del NIHSS al contexto hispanohablante

Necesidad de versiones en diferentes idiomas

Dado que el NIHSS fue originalmente desarrollado en inglés, su utilización en países de habla hispana requiere una adaptación lingüística y cultural. La traducción y validación en español garantizan que los profesionales puedan aplicar la escala de manera comprensible y precisa, minimizando errores interpretativos y asegurando la uniformidad en la evaluación.

Relevancia clínica en países hispanohablantes

En muchas regiones de América Latina y España, el acceso a recursos especializados puede ser limitado, y la evaluación rápida del paciente es esencial para tomar decisiones inmediatas. La versión en español del NIHSS contribuye a:

- Mejorar la comunicación entre equipos médicos.
- Facilitar la formación de profesionales en la detección temprana de la gravedad del ictus.
- Promover el uso de protocolos estandarizados en centros de atención primaria y hospitales.

Impacto en la investigación y en la salud pública

La disponibilidad de un NIHSS validado en español ha permitido la participación de países hispanohablantes en estudios internacionales, enriqueciendo la evidencia clínica y promoviendo políticas de salud más ajustadas a las características poblacionales locales.

Adaptación y validación del NIHSS en español

Proceso de traducción y validación

La adaptación del NIHSS al español sigue rigurosos pasos metodológicos:

- Traducción inicial: Realizada por expertos bilingües en neurología y salud pública.
- Revisión y consenso: Se revisan las versiones para garantizar la fidelidad conceptual y cultural.
- Prueba piloto: Se aplica en muestras clínicas para detectar posibles dificultades de comprensión.
- Validación estadística: Se evalúa la fiabilidad, validez y sensibilidad de la escala en diferentes poblaciones hispanohablantes mediante análisis estadísticos como el coeficiente de correlación y la consistencia interna.

Este proceso asegura que la versión en español no solo sea lingüísticamente precisa, sino también clínica y culturalmente adecuada.

Ejemplo de la versión en español

La versión validada del NIHSS en español incluye instrucciones claras y términos comprensibles para los profesionales, con adaptaciones en la terminología para reflejar expresiones y conceptos utilizados en diferentes países de habla hispana.

Aplicaciones clínicas del NIHSS en español

Valor en la toma de decisiones médicas

El NIHSS en español es una herramienta esencial en la evaluación inicial de pacientes con sospecha de ictus. Permite determinar rápidamente la gravedad, lo que influye en:

- La decisión de administrar terapias de reperfusión.
- La derivación a unidades de atención especializada.
- La predicción de complicaciones y pronóstico.

Por ejemplo, una puntuación elevada en el NIHSS indica un ictus severo, que puede requerir intervenciones inmediatas y monitoreo intensivo.

Monitoreo y seguimiento

El NIHSS también es útil para evaluar la evolución clínica del paciente durante su hospitalización, ayudando a detectar mejoras o deterioros y ajustando el plan terapéutico según sea necesario.

Capacitación y formación del personal

La disponibilidad de una versión en español facilita la capacitación de residentes, médicos generales y enfermeros, promoviendo la incorporación de la evaluación neurológica estandarizada en la práctica cotidiana.

Limitaciones y desafíos en la implementación del NIHSS en español

Variabilidad en la interpretación

A pesar de su estandarización, la aplicación del NIHSS puede variar entre diferentes profesionales, especialmente en entornos con menos experiencia. La capacitación continua y la certificación en la escala son estrategias para minimizar esta variabilidad.

Limitaciones culturales y lingüísticas

Aunque el proceso de validación busca adaptar la escala culturalmente, ciertos términos o conceptos pueden seguir siendo interpretados de manera diferente en distintas regiones hispanohablantes. Es importante considerar estas diferencias y ajustar la formación en consecuencia.

Acceso a recursos y formación

En áreas rurales o con recursos limitados, la implementación del NIHSS en español puede verse obstaculizada por la falta de formación especializada o de materiales adecuados. La digitalización y la creación de plataformas educativas pueden ayudar a superar estos desafíos.

El futuro del NIHSS en español y la evaluación del ictus

Innovaciones y mejoras tecnológicas

Con los avances en inteligencia artificial y telemedicina, el NIHSS en español puede integrarse en sistemas digitales y aplicaciones móviles que permitan una evaluación rápida y precisa en el lugar de atención, incluso en remoto.

Integración en protocolos de salud pública

La universalización de la escala en español puede contribuir a la creación de protocolos nacionales e internacionales que aseguren una atención homogénea y de calidad en la evaluación del ictus en países hispanohablantes.

Investigación y validación continua

Es fundamental seguir realizando estudios que evalúen la fiabilidad y validez de la escala en diferentes contextos y poblaciones, garantizando que siga siendo una herramienta relevante y efectiva.

Conclusión

El NIHSS Spanish emerge como un pilar fundamental en la evaluación clínica del ictus en comunidades hispanohablantes, facilitando la detección temprana, la toma de decisiones rápidas y la monitorización efectiva de los pacientes. La adaptación cultural y lingüística, junto con la validación rigurosa, aseguran que esta herramienta sea confiable y útil en diversos entornos clínicos. Sin embargo, su éxito en la práctica requiere una formación adecuada, recursos accesibles y un compromiso continuo con la mejora de la atención neurológica. En un contexto global donde la incidencia del ictus sigue en aumento, el NIHSS en español representa un avance importante hacia una atención más equitativa, eficiente y basada en evidencia para toda la población hispanohablante.

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nihss spanish: Ischemic Stroke Therapeutics Bruce Ovbiagele, Anthony S. Kim, 2024-04-23
This second edition updates established evidence for contemporary management of ischemic stroke. Therapeutics for acute management, secondary prevention, recovery, rehabilitation, asymptomatic

cerebral ischemia, special populations, and implementation of stroke systems of care are all discussed. Chapters are authored by leading academicians from around the world with real-world clinical practice experience, and comprise the scientific rationale and expert consensus recommendations, which underlie prevailing (and possibly future) therapeutic strategies for managing ischemic cerebrovascular disease. New chapter topics include neuroprotectants, treatment of the oldest old, brain-computer interfaces, disparities, and the global burden. The specialist or general practitioner will gain critical knowledge in stroke management, current clinical challenges and promising new therapies under investigation.

nihss spanish: Stroke, Part III: Investigation and management Marc Fisher, 2008-12-30 This volume provides a comprehensive exploration of stroke, from basic mechanisms of disease to enhanced diagnostic and therapeutic capabilities. The ongoing efforts within the neurological community are also highlighted, bringing a better understanding of the pathophysiological basis of this disorder. Clinicians will find invaluable information that can be used to enhance the lives of an aging global population. Covered topics include the functional anatomy of the brain itself, as well as advancements in the understanding of the biochemical background of strokes. Related fields and their dramatic impact on stroke research are also included, with findings in the fields of epidemiology, genetics, neuroimaging, and interventional radiology thoroughly explored. In addition, great attention is paid to therapeutic avenues, including investigation, prevention, and patient management.

nihss spanish: Stroke Nursing Jane Williams, Lin Perry, Caroline Watkins, 2019-03-07 Stroke Nursing is the leading guide for optimal stroke care, facilitating the provision of evidence-based practice across the stroke journey, and covering the sixteen elements of care outlined in the UK's Stroke-Specific Education Framework (SSEF). Drawing from years of clinical and research experience, the authors provide practical guidance on the essential areas of stroke nursing, including stroke classification, stabilisation, thrombolysis and thrombectomy, rehabilitation and recovery, nutrition and oral care, palliative and long-term care, physical impairment management, and more. Now in its second edition, this indispensable guide helps practitioners expand their knowledge, skills and competence in all areas of stroke nursing services. Adopts a practical and evidence-based approach to stroke management, exploring UK and international perspectives Authored by expert clinicians and leaders in the field of nursing practice, research and education Includes updated case studies and practice examples, expanded coverage of clinical application in practice, and new discussions of the knowledge and skills required by nurses Stroke Nursing is essential reading for students of nursing and neuroscience, and is the definitive reference for practicing nurses and healthcare professionals caring for stroke patients.

nihss spanish: Stroke for the Advanced Practice Clinician Hardik P. Amin, 2024-10-29 This book serves as a clinical guide for the growing number of Advanced Practice Clinicians (APC) who care for stroke patients. It covers the entire spectrum of stroke care: acute, inpatient, and outpatient, as well as fundamental topics like neuroanatomy and radiology. Each chapter succinctly reviews crucial topics designed to guide APCs of any experience level with clinical decision-making. To further enrich the text, we incorporated guidelines, relevant trial data written in plain language, decision-making algorithms, clinical pearls, and case vignettes. Since this is a book for APCs, each chapter is written in a clear, clinically focused manner by an experienced APC with a collaborating physician. We hope this is a helpful resource not only for APCs in neurology but also for those practicing in other specialties, primary care, and students learning about stroke care.

nihss spanish: Stroke E-Book James C. Grotta, Gregory W Albers, Joseph P Broderick, Scott E Kasner, Eng H. Lo, Ralph L Sacco, Lawrence KS Wong, Arthur L. Day, 2021-02-06 Authored by the world's foremost stroke experts, this classic text brings you fully up to date with current research findings and management approaches for cerebrovascular disease. Stroke: Pathophysiology, Diagnosis, and Management, 7th Edition, covers every aspect of this fast-moving field, and is an ideal resource for stroke specialists, general neurologists, and other medical professionals with an interest in stroke. You'll find expert clinical guidance, comprehensive pathophysiology coverage,

data from recent trials, advances in diagnostic tests, full-color CT images, pathology slides, and much more, for a complete picture of today's stroke medicine. - Helps you recognize the clinical manifestations of stroke, use the latest laboratory and imaging studies to arrive at a diagnosis, and generate an effective medical and surgical treatment plan. - Keeps you abreast of the overwhelming volume of studies and guidelines in this dynamic field, providing clear summaries and practical evaluations of all relevant data. - Contains updates throughout, including the latest clinical trials (thrombectomy, DAWN, DEFUSE), genetics research, prevention research, new therapies, and the new guidelines from the ASA. - Includes new slides for lectures, covering basic science, case studies, and interventional treatment overviews. - Features a Key Points summary at the beginning of each chapter so you can quickly find important information. - Provides abundant full-color CT images and pathology slides that help you make efficient and accurate diagnoses.

nihss spanish: Bradley and Daroff's Neurology in Clinical Practice - E-Book Joseph Jankovic, John C. Mazziotta, Scott L. Pomeroy, 2021-03-23 A practical, dynamic resource for practicing neurologists, clinicians and trainees, Bradley and Daroff's Neurology in Clinical Practice, Eighth Edition, offers a straightforward style, evidence-based information, and robust interactive content supplemented by treatment algorithms and images to keep you up to date with all that's current in this fast-changing field. This two-volume set is ideal for daily reference, featuring a unique organization by presenting symptom/sign and by specific disease entities—allowing you to access content in ways that mirror how you practice. More than 150 expert contributors, led by Drs. Joseph Jankovic, John C. Mazziotta, Scott L. Pomeroy, and Nancy J. Newman, provide up-to-date guidance that equips you to effectively diagnose and manage the full range of neurological disorders. - Covers all aspects of today's neurology in an easy-to-read, clinically relevant manner. - Allows for easy searches through an intuitive organization by both symptom and grouping of diseases. - Features new and expanded content on movement disorders, genetic and immunologic disorders, tropical neurology, neuro-ophthalmology and neuro-otology, palliative care, pediatric neurology, and new and emerging therapies. - Offers even more detailed videos that depict how neurological disorders manifest, including EEG and seizures, deep brain stimulation for PD and tremor, sleep disorders, movement disorders, ocular oscillations, EMG evaluation, cranial neuropathies, and disorders of upper and lower motor neurons, as well as other neurologic signs. - Enhanced eBook version included with purchase. Your enhanced eBook allows you to access all of the text, figures, and references from the book on a variety of devices.

nihss spanish: New trends in type 2 diabetes diagnosis and management in primary care Aleksandra Klisic, I-Shiang Tzeng, 2023-07-26

nihss spanish: Reviews in: Stroke Bernhard Sehm, Chunping Ni, Eduardo Candelario-Jalil, Jun Yao, Kristian Barlinn, Krishna Kumar Veeravalli, 2024-02-22 Frontiers in Neurology is delighted to present the 'Reviews in' series of article collections. Reviews in: Stroke will publish high-quality scholarly review papers on key topics in the field of Stroke. It aims to highlight recent advances in the field, whilst emphasizing important directions and new possibilities for future inquiries. We anticipate the research presented will promote discussion in the Stroke community that will translate to best practice applications in clinical, public health, and policy settings.

nihss spanish: Issues in Neurology Research and Practice: 2011 Edition, 2012-01-09 Issues in Neurology Research and Practice / 2011 Edition is a ScholarlyEditions™ eBook that delivers timely, authoritative, and comprehensive information about Neurology Research and Practice. The editors have built Issues in Neurology Research and Practice: 2011 Edition on the vast information databases of ScholarlyNews.™ You can expect the information about Neurology Research and Practice in this eBook to be deeper than what you can access anywhere else, as well as consistently reliable, authoritative, informed, and relevant. The content of Issues in Neurology Research and Practice: 2011 Edition has been produced by the world's leading scientists, engineers, analysts, research institutions, and companies. All of the content is from peer-reviewed sources, and all of it is written, assembled, and edited by the editors at ScholarlyEditions™ and available exclusively from us. You now have a source you can cite with authority, confidence, and credibility. More information

is available at <http://www.ScholarlyEditions.com/>.

nihss spanish: *Neuroprotective Therapy for Stroke and Ischemic Disease* Paul A. Lapchak, John H. Zhang, 2017-01-12 A critical and comprehensive look at current state-of-the-art scientific and translational research being conducted internationally, in academia and industry, to address new ways to provide effective treatment to victims of ischemic and hemorrhagic stroke and other ischemic diseases. Currently stroke can be successfully treated through the administration of a thrombolytic, but the therapeutic window is short and many patients are not able to receive treatment. Only about 30% of patients are cured by available treatments. In 5 sections, the proposed volume will explore historical and novel neuroprotection mechanisms and targets, new and combination therapies, as well as clinical trial design for some of the recent bench-side research.

nihss spanish: *Rough Sets* Víctor Flores, Fernando Gomide, Andrzej Janusz, Claudio Meneses, Duoqian Miao, Georg Peters, Dominik Ślęzak, Guoyin Wang, Richard Weber, Yiyu Yao, 2016-09-28 This book constitutes the refereed proceedings of the International Joint Conference on Rough Sets, IJCRS 2016, held in Santiago de Chile, Chile, in October 2016. The 46 revised full papers presented together with 7 keynotes, tutorials and expert papers were carefully reviewed and selected from 108 submissions. The papers are grouped in topical sections on Rough Sets, Approximation and Granulation; Rough Sets, Non-Determinism and Incompleteness; Rough Sets and Three-way Decisions; Fuzziness and Similarity in Knowledge Representation; Machine Learning and Decision Making; Ranking and Clustering; Derivation and Application of Rules and Trees; Derivation and Application of Feature Subsets.

nihss spanish: *Precise Diagnosis and Treatment of Intracranial Stenosis or Occlusion* Liqun Jiao, Adam A. Dmytriw, Byung Moon Kim, QinJian Sun, 2022-04-04

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