



**Sistema Integral de Información Académica**  
**Coordinación de Planeación, Evaluación y**  
**Simplificación de la Gestión Institucional**  
**Reporte individual**



**IGNACIO MARIO MADRAZO NAVARRO**

## Datos Generales

**Nombre:** IGNACIO MARIO MADRAZO NAVARRO

**Máximo nivel de estudios:**

**Antigüedad académica en la UNAM:** años, meses, días

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## Nombramientos

**Último:**

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## Estímulos, programas, premios y reconocimientos

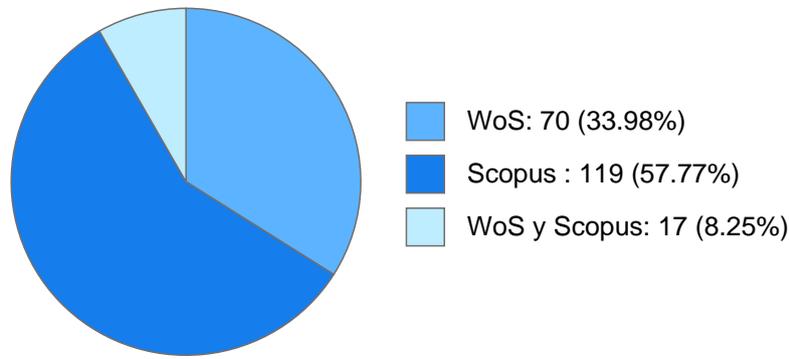
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**DOCUMENTOS EN REVISTAS**

**Histórico de Documentos**



#	Título	Autores	Revista	Año
1	Single vs. Combined Therapeutic Approaches in Rats With Chronic Spinal Cord Injury	SANDRA ADELA OROZCO SUAREZ ANGELICA VEGA GARCIA IGNACIO MARIO MADRAZO NAVARRO et al.	FRONTIERS IN NEUROLOGY	2020
2	Transplantation of Human Neural Progenitor Cells (NPC) into Putamina of Parkinsonian Patients: A Case Series Study, Safety and Efficacy Four Years after Surgery	IGNACIO MARIO MADRAZO NAVARRO MIGUEL ANGEL AVILA RODRIGUEZ FEGGY OSTROSKY SHEJET et al.	CELL TRANSPLANTATI ON	2019
3	Temporal changes of spinal subarachnoid space patency after graded spinal cord injury in rats	IGNACIO MARIO MADRAZO NAVARRO GABRIEL GUIZAR SAHAGUN Martinez-Cruz A. et al.	INJURY-INTERNA TIONAL JOURNAL OF THE CARE OF THE INJURED	2015
4	Characterization of spinal subarachnoid bleeding associated to graded traumatic spinal cord injury in the rat	IGNACIO MARIO MADRAZO NAVARRO GABRIEL GUIZAR SAHAGUN Martinez-Cruz, A. et al.	Spinal Cord	2014
5	Spatial and Temporal Morphological Changes in the Subarachnoid Space after Graded Spinal Cord Contusion in the Rat	JOSE EFREN ISRAEL GRIJALVA OTERO IGNACIO MARIO MADRAZO NAVARRO GABRIEL GUIZAR SAHAGUN et al.	JOURNAL OF NEUROTRAUMA	2013

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6	Superparamagnetic beads for estimation of spinal subarachnoid space permeability in rats	GABRIEL GUIZAR SAHAGUN IGNACIO MARIO MADRAZO NAVARRO Martinez-Cruz, Angelina et al.	JOURNAL OF NEUROSCIENCE METHODS	2013
7	Autoreactivity against myelin basic protein in patients with chronic paraplegia	JOSE EFREN ISRAEL GRIJALVA OTERO IGNACIO MARIO MADRAZO NAVARRO Zajarias-Fainsod, D. et al.	EUROPEAN SPINE JOURNAL	2012
8	Early Administration of L-Arginine in Experimental Acute Spinal Cord Injury Impairs Long-Term Motor Function Recovery	IGNACIO MARIO MADRAZO NAVARRO Guizar-Sahagun, Gabriel Franco-Bourland, Rebecca E. et al.	J TRAUMA	2011
9	Comment	IGNACIO MARIO MADRAZO NAVARRO	Neurosurgery	2011
10	Comments	IGNACIO MARIO MADRAZO NAVARRO	Neurosurgery	2011
11	Comments	IGNACIO MARIO MADRAZO NAVARRO	Neurosurgery	2011
12	Diversity and Commonalities in the Care of Spine Trauma Internationally	IGNACIO MARIO MADRAZO NAVARRO Lenehan, Brian Dvorak, Marcel F. et al.	Spine	2010
13	Lack of neuroprotection with pharmacological pretreatment in a paradigm for anticipated spinal cord lesions	IGNACIO MARIO MADRAZO NAVARRO Guizar-Sahagun, G. Rodriguez-Balderas, C. A. et al.	Spinal Cord	2009
14	Stereolithography in spine pathology: a 2-case report	IGNACIO MARIO MADRAZO NAVARRO Zamorano, Carlos Magallon, Eduardo et al.	SURG NEUROL	2009
15	Thalidomide fails to be therapeutic following contusive spinal cord injury in rats	IGNACIO MARIO MADRAZO NAVARRO Reyes-Alva, Horacio J. Franco-Bourland, Rebecca E. et al.	ACTA NEUROBIOLOGIA E EXPERIMENTALIS	2009
16	Cyclosporin-A enhances non-functional axonal growing after complete spinal cord transection	MARIA DOLORES CORREA BELTRAN IGNACIO MARIO MADRAZO NAVARRO Guizar-Sahagun G. et al.	BRAIN RESEARCH	2007
17	A quantitative and reproducible method to assess cord compression and canal stenosis after cervical spine trauma: A study of interrater and intrarater reliability	IGNACIO MARIO MADRAZO NAVARRO Mikulis D. Grauer J.N. et al.	Spine	2007
18	The adoption of a new classification system: Time-dependent variation in interobserver reliability of the thoracolumbar injury severity score classification system	IGNACIO MARIO MADRAZO NAVARRO Hegde S. Dimar J. et al.	Spine	2007

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20	Clinical outcomes of 90 isolated unilateral facet fractures, subluxations, and dislocations treated surgically and nonoperatively	IGNACIO MARIO MADRAZO NAVARRO Fehlings M.G. Zhao Y. et al.	Spine	2007
21	Interobserver and intraobserver reliability of maximum canal compromise and spinal cord compression for evaluation of acute traumatic cervical spinal cord injury	IGNACIO MARIO MADRAZO NAVARRO Vaccaro A.R. Rechtine G. et al.	Spine	2006
22	Recombinant human bone morphogenetic protein-2 (rhBMP-2) for cervical fusion: Is there a role in cervical trauma?	IGNACIO MARIO MADRAZO NAVARRO Guízar-Sahagún G. Salgado-Ceballos H. et al.	Topics in Spinal Cord Injury Rehabilitation	2006
23	Glutathione monoethyl ester improves functional recovery, enhances neuron survival, and stabilizes spinal cord blood flow after spinal cord injury in rats	IGNACIO MARIO MADRAZO NAVARRO Franco-Bourland R.E. Martínez A. et al.	Neuroscience	2005
24	Stereotactic radiosurgery [Radiocirugía estereotáctica.]	IGNACIO MARIO MADRAZO NAVARRO Aldana-Herrero A.	CIRUGIA Y CIRUJANOS	2005
25	Spontaneous and induced aberrant sprouting at the site of injury is irrelevant to motor function outcome in rats with spinal cord injury	IGNACIO MARIO MADRAZO NAVARRO SANDRA ADELA OROZCO SUAREZ Franco-Bourland R.E. et al.	BRAIN RESEARCH	2004
26	Effects of cyclosporin-A on immune response, tissue protection and motor function of rats subjected to spinal cord injury	KAETHE LINA MARIA WILLMS MANNING GABRIEL GUIZAR SAHAGUN JOSE EFREN ISRAEL GRIJALVA OTERO et al.	BRAIN RESEARCH	2003
27	Neural transplant.	IGNACIO MARIO MADRAZO NAVARRO	JOURNAL OF NEUROSURGERY	2002
28	Spinal fluid lactate measurement for diagnosis of infection in shunt systems [Utilidad de la medición del lactato en líquido cefalorraquídeo (LCR) para el diagnóstico de infección del sistema de derivación del LCR]	IGNACIO MARIO MADRAZO NAVARRO Vilchis-Quiroz O. Valencia-Mejía A. et al.	Archivos Del Instituto Nacional De Neurología Y Neurocirugía	2002
29	Medical treatment for neurocysticercosis characterized by giant subarachnoid cysts	IGNACIO MARIO MADRAZO NAVARRO Proaño J.V. Avelar F. et al.	NEW ENGLAND JOURNAL OF MEDICINE	2001

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31	Lipid peroxidation inhibition in spinal cord injury: Cyclosporin-A vs methylprednisolone	LUIS CAMILO RIOS CASTAÑEDA MARIA DOLORES CORREA BELTRAN IGNACIO MARIO MADRAZO NAVARRO et al.	Neuroreport	2000
32	Pathophysiological mechanisms involved in systemic and metabolic alterations secondary to spinal cord injury	IGNACIO MARIO MADRAZO NAVARRO Gruaiva I. Franco-Bourland R. et al.	Proceedings of the Western Pharmacology Society	1998
33	Transitory expression of NADPH diaphorase (NOS) in axonal swellings after spinal cord injury	PATRICIA GARCIA LOPEZ IGNACIO MARIO MADRAZO NAVARRO Guízar-Sahagún G. et al.	Neuroreport	1998
34	Spontaneous long-term remyelination after traumatic spinal cord injury in rats	IGNACIO MARIO MADRAZO NAVARRO Hermelinda S.-C. Guizar-Sahagun G. et al.	BRAIN RESEARCH	1998
35	Albendazole and praziquantel treatment in neurocysticercosis of the fourth ventricle	IGNACIO MARIO MADRAZO NAVARRO MARIA DOLORES CORREA BELTRAN Proaño J.V. et al.	JOURNAL OF NEUROSURGERY	1997
36	The future of the Mexican Institute of Social Security. A view from inside [El futuro del IMSS. Una visión interna.]	IGNACIO MARIO MADRAZO NAVARRO RUBEN ARGUERO SANCHEZ Ruiz-Esparza G. et al.	GACETA MEDICA DE MEXICO	1997
37	Oral paracetamol bioavailability in rats subjected to experimental spinal cord injury	PATRICIA GARCIA LOPEZ IGNACIO MARIO MADRAZO NAVARRO Castañeda-Hernández G. et al.	BIOPHARM DRUG DISPOS	1997
38	Histochemical evidence of the increased expression of nicotinamide adenine dinucleotide phosphate-dependent diaphorase in neurons of the myenteric plexus after acute spinal cord injury in adult rats	PATRICIA GARCIA LOPEZ IGNACIO MARIO MADRAZO NAVARRO Guizar-Sahagun G. et al.	NEUROSCIENCE LETTERS	1996
39	Alteration of cyclosporin-A pharmacokinetics after experimental spinal cord injury	MARIA DOLORES CORREA BELTRAN IGNACIO MARIO MADRAZO NAVARRO Ibarra A. et al.	JOURNAL OF NEUROTRAUMA	1996
40	Evagination of Taenia solium in the fourth ventricle	ANA FLISSER STEINBRUCH IGNACIO MARIO MADRAZO NAVARRO	NEW ENGLAND JOURNAL OF MEDICINE	1996
41	Comparison between Sprague-Dawley and Wistar rats as an experimental model of pharmacokinetic alterations induced by spinal cord injury	PATRICIA GARCIA LOPEZ IGNACIO MARIO MADRAZO NAVARRO Perez-Urizar J. et al.	Archives Of Medical Research	1996

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44	Pallidotomy in Parkinson's disease [1]	IGNACIO MARIO MADRAZO NAVARRO Kelly P.J. Loyo-Varela M.	Neurosurgery	1996
45	Use of cyclosporin-A in experimental spinal cord injury: Design of a dosing strategy to maintain therapeutic levels	MARIA DOLORES CORREA BELTRAN IGNACIO MARIO MADRAZO NAVARRO Ibarra A. et al.	JOURNAL OF NEUROTRAUMA	1996
46	Survival of cultured plant cells grafted into the subcutaneous tissue of rats (Preliminary report)	IGNACIO MARIO MADRAZO NAVARRO JOSE EFREN ISRAEL GRIJALVA OTERO Rodriguez-Mendiola M.A. et al.	Archives Of Medical Research	1995
47	Fetal striatal homotransplantation for Huntington's disease: First two case reports	IGNACIO MARIO MADRAZO NAVARRO FEGGY OSTROSKY SHEJET Cuevas C. et al.	NEUROLOGICAL RESEARCH	1995
48	Botulinum toxin-A for the treatment of hemifacial spasm	IGNACIO MARIO MADRAZO NAVARRO Cuevas C. Magallon E. et al.	Archives Of Medical Research	1995
49	Magnetic resonance imaging of the normal and chronically injured adult rat spinal cord in vivo	GABRIEL GUIZAR SAHAGUN JOSE EFREN ISRAEL GRIJALVA OTERO IGNACIO MARIO MADRAZO NAVARRO et al.	Neuroradiology	1994
50	Neuroprotection of completely lacerated spinal cord of adult rats by homotopic and heterotopic transplantation	GABRIEL GUIZAR SAHAGUN JOSE EFREN ISRAEL GRIJALVA OTERO IGNACIO MARIO MADRAZO NAVARRO et al.	RESTOR NEUROL NEUROS	1994
51	Dopamine $\beta$ -hydroxylase immunoreactivity in human cerebrospinal fluid: Properties, relationship to central noradrenergic neuronal activity and variation in Parkinson's disease and congenital dopamine $\beta$ -hydroxylase deficiency	IGNACIO MARIO MADRAZO NAVARRO Levine G.L. Parmer R.J. et al.	CLINICAL SCIENCE	1994
52	Development of post-traumatic cysts in the spinal cord of rats subjected to severe spinal cord contusion	GABRIEL GUIZAR SAHAGUN JOSE EFREN ISRAEL GRIJALVA OTERO IGNACIO MARIO MADRAZO NAVARRO et al.	SURG NEUROL	1994

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53	Mutation at the HPRT locus in patients with neurocysticercosis treated with praziquantel	REGINA DORINDA MONTERO MONTOYA ANA FLISSER STEINBRUCH IGNACIO MARIO MADRAZO NAVARRO et al.	MUTATION RESEARCH-FUN DAMENTAL AND MOLECULAR MECHANISMS OF MUTAGENESIS	1994
54	Neurological symptoms in occult neurocysticercosis after single taeniacidal dose of praziquantel	ANA FLISSER STEINBRUCH IGNACIO MARIO MADRAZO NAVARRO Sarti E. et al.	Lancet	1993
55	Chromogranin a immunoreactivity in human cerebrospinal fluid: Properties, relationship to noradrenergic neuronal activity, and variation in neurologic disease	IGNACIO MARIO MADRAZO NAVARRO Langlais P.J. Franco-Bourland R.E. et al.	Neuroscience	1993
56	The first homotopic fetal homograft of the striatum in the treatment of Huntington's disease [Primer homotrasplante fetal homotópico de estriado para el tratamiento de la enfermedad de Huntington.]	IGNACIO MARIO MADRAZO NAVARRO GABRIEL GUIZAR SAHAGUN FEGGY OSTROSKY SHEJET et al.	GACETA MEDICA DE MEXICO	1993
57	Human rights and organ transplantation. I. Introduction [Derechos humanos y trasplantes de órganos. I. Introducción.]	RUBEN FERNANDO CANO VALLE IGNACIO MARIO MADRAZO NAVARRO Moctezuma-Barragán G. et al.	GACETA MEDICA DE MEXICO	1993
58	Human rights and organ transplantation. V. Transplantation of embryonic tissue into the human brain [Derechos humanos y trasplantes de órganos. V. Trasplantes de tejido embrionario al cerebro humano.]	IGNACIO MARIO MADRAZO NAVARRO	GACETA MEDICA DE MEXICO	1993
59	Neurotrophic Support from Peripheral Nerve Tissue for Human Adrenal Chromaffin Cells (Co-Grafting) in the Treatment of Parkinson's Disease	IGNACIO MARIO MADRAZO NAVARRO FEGGY OSTROSKY SHEJET Castrejon H. et al.	NEURAL PLAST	1992
60	Acute Spinal Cord Injury Alters the Bioavailability of Oral and Intraperitoneal Cyclosporine-A in Contused Rats	GABRIEL GUIZAR SAHAGUN HERMELINDA SALGADO CEBALLOS JOSE EFREN ISRAEL GRIJALVA OTERO et al.	NEURAL PLAST	1992
61	Memory Assessment Battery and Early Identification of Dementia	FEGGY OSTROSKY SHEJET MARTHA LUISA PEREZ LOPEZ IGNACIO MARIO MADRAZO NAVARRO et al.	NEURAL PLAST	1992

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62	Enzymatic Manipulation of the Site of Spinal Cord Injury Allows Better Survival and Adhesion of Allogeneic Homotopic Fetal Transplants in Adult Rats	JOSE EFREN ISRAEL GRIJALVA OTERO GABRIEL GUIZAR SAHAGUN HERMELINDA SALGADO CEBALLOS et al.	NEURAL PLAST	1992
63	Readiness potential in Perkinson's disease: Effects of L-Dopa therapy and brain transplants	DAVID NATANAEL VELAZQUEZ MARTINEZ FEGGY OSTROSKY SHEJET MARCELA LOPEZ CABRERA et al.	NEURAL PLAST	1992
64	Improved Survival Rate and Reduced Spinal Cord Parenchymal Destruction of Rats Subjected to Complete Spinal Cord Transection and Heterotopic Tissue Transplantation	GABRIEL GUIZAR SAHAGUN HERMELINDA SALGADO CEBALLOS JOSE EFREN ISRAEL GRIJALVA OTERO et al.	NEURAL PLAST	1992
65	Recovery on a Drug Discrimination Learning Task After Brain Transplants: Preliminary Findings	MARCELA LOPEZ CABRERA OSCAR ZAMORA AREVALO IGNACIO MARIO MADRAZO NAVARRO et al.	NEURAL PLAST	1992
66	Readiness Potential in Parkinson's Disease: Effects of L-Dopa Therapy and Brain Transplants	IGNACIO MARIO MADRAZO NAVARRO Cabrera L. Guevara M. et al.	NEURAL PLAST	1992
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69	Development of human neural transplantation	IGNACIO MARIO MADRAZO NAVARRO FEGGY OSTROSKY SHEJET Penn R.D. et al.	Neurosurgery	1991
70	Transplantation of adrenal medulla and omentum to the putamen [1]	IGNACIO MARIO MADRAZO NAVARRO Goldsmith H.S. Fiandaca M.S. et al.	Neurosurgery	1991
71	Technique of autoadrenal transplantation [2]	IGNACIO MARIO MADRAZO NAVARRO Sainte-Rose C. Hirsch J.-F. et al.	JOURNAL OF NEUROSURGERY	1991
72	Evaluation of the hypothalamic-hypophyseal axis in patients with hypertensive hydrocephalus due to neurocysticercosis.	IGNACIO MARIO MADRAZO NAVARRO González D. Sandoval M.	Archivos De Investigación Médica	1991
73	Valvular dysfunction due to the obstruction of the ventricular catheter caused by cysticercus cyst.	IGNACIO MARIO MADRAZO NAVARRO Sandoval M. García-Rentería J.A. et al.	Archivos De Investigación Médica	1991
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81	Balloon needle for the atraumatic transcortical ventricular approach: Technical note	IGNACIO MARIO MADRAZO NAVARRO GABRIEL GUIZAR SAHAGUN Franco-Bourland R. et al.	SURG NEUROL	1990
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84	Obstruction of the ventricular catheter of a SCF shunt system due to the own cyst of Taenia solium	IGNACIO MARIO MADRAZO NAVARRO Sandoval M. Garcia-Renteria J.A. et al.	Archivos De Investigación Médica	1990

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86	Fetal Homotransplants (Ventral Mesencephalon and Adrenal Tissue) to the Striatum of Parkinsonian Subjects	IGNACIO MARIO MADRAZO NAVARRO Guizar Sahagun G. Magallon E. et al.	ARCH NEUROL-CHICAGO	1990
87	Adrenal-to-caudate transplantation	FEGGY OSTROSKY SHEJET IGNACIO MARIO MADRAZO NAVARRO Franco-Bourland R. et al.	Neurology	1990
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89	Autograft of the adrenal medulla to caudate nucleus as Parkinson disease treatment: long-term clinical evaluation [Autoinjerto de médula suprarrenal al núcleo caudado como tratamiento de la enfermedad de Parkinson: evaluación clínica a l	IGNACIO MARIO MADRAZO NAVARRO Franco-Bourland R. Ostrosky-Solis F. et al.	GACETA MEDICA DE MEXICO	1989
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92	Transplantation of fetal substantia nigra and adrenal medulla to the caudate nucleus in two patients with Parkinson's disease	IGNACIO MARIO MADRAZO NAVARRO RENE RAUL DRUCKER COLIN Franco R. et al.	NEW ENGLAND JOURNAL OF MEDICINE	1988
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96	Intraventricular somatostatin-14, arginine vasopressin, and oxytocin: Analgesic effect in a patient with intractable cancer pain	IGNACIO MARIO MADRAZO NAVARRO Mena I. Leon-Meza V.M. et al.	Applied Neurophysiolog y	1987
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99	Quantification of beta-endorphins in psychiatric patients under cerebellar chronic stimulation in on and off state.	IGNACIO MARIO MADRAZO NAVARRO Maldonado-León A. Graef-Sánchez A. et al.	Archivos De Investigación Médica	1985
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101	Enzymatic behavior (lactic dehydrogenase and its isoenzymes) of the hydrocephalus of the child	IGNACIO MARIO MADRAZO NAVARRO López-Vega F.J. Jardón-Careaga F. et al.	Archivos De Investigación Médica	1983
102	Intraventricular cysticercosis	IGNACIO MARIO MADRAZO NAVARRO Lopez Vega F.J. Sandoval M. et al.	Neurosurgery	1983
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113	Craniostenosis [CRANEOESTENOSIS]	IGNACIO MARIO MADRAZO NAVARRO Sanchez Cabrera J.M. Maldonado Leon J.A. et al.	Revista Médica Del Instituto Mexicano Del Seguro Social	1979
114	Surgical treatment of occipitotransversal vascular malformation in children [TRATAMIENTO QUIRURGICO DE LA MALFORMACION VASCULAR OCCIPITOTRANSVERSA EN EL NINO]	IGNACIO MARIO MADRAZO NAVARRO Sanchez Cabrera J.M. Maldonado Leon J.A. et al.	Revista Médica Del Instituto Mexicano Del Seguro Social	1978
115	Paraplegia as a risk following catheterization of the umbilical artery. Report of a case and bibliographic review [Paraplejía como riesgo de la cateterización de arteria umbilical. Presentación de un caso y revisión bibliográfica.]	IGNACIO MARIO MADRAZO NAVARRO Hernández de T M.G. Sánchez Cabrera J.M. et al.	BOLETIN MEDICO DEL HOSPITAL INFANTIL DE MEXICO	1978

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116	Surgical treatment of large scale occipital encephalocele. (Report of a case) [TRATAMIENTO QUIRURGICO DEL ENCEFALOCELE OCCIPITAL DE GRAN TAMANO. INFORME DE UN CASO]	IGNACIO MARIO MADRAZO NAVARRO Maldonado Leon J.A. Sanchez Cabrera J.M.	Revista Médica Del Instituto Mexicano Del Seguro Social	1978
117	Intracranial tumours. (Review of 5000 autopsies) [TUMORES INTRACRANEALES. REVISION DE 5,000 NECROPSIAS]	IGNACIO MARIO MADRAZO NAVARRO Valerio Damas J.E. Rosas Peralta V.H.	Revista Médica Del Instituto Mexicano Del Seguro Social	1978
118	Jugular hyperoxia as manifestation of brain death [HIPEROXIA YUGULAR COMO MANIFESTACION DE MUERTE CEREBRAL]	IGNACIO MARIO MADRAZO NAVARRO Madrazo M. Maldonado J.A.	Revista Médica Del Instituto Mexicano Del Seguro Social	1978
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**LIBROS Y CAPITULOS CON ISBN**

**No se encuentran registros en la base de datos de Humanindex asociados a:**

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**PARTICIPACIÓN EN PROYECTOS**

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**PARTICIPACIÓN EN TESIS**

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**IGNACIO MARIO MADRAZO NAVARRO**

**DOCENCIA IMPARTIDA**

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**Simplificación de la Gestión Institucional**  
**Reporte individual**



**IGNACIO MARIO MADRAZO NAVARRO**

**PATENTES**

**No se encuentran registros en la base de datos de patentes asociados a:**

**IGNACIO MARIO MADRAZO NAVARRO**

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**FUENTES DE INFORMACIÓN**

**Internos**

#	Información	Fuente	Sistema	Periodo
1	Grupos ordinarios y resumen de historias académicas	DGAE	SIAE	2008-2025
2	Nombramientos, datos generales, estímulos, premios y reconocimientos	DGAPA	RUPA	2008-2025
3	Producción Académica	CH	Humanindex	2008-2021
4	Producción Académica	CIC	SCIC	2000-2017
5	Proyectos	DGPO	SISEPRO	2018-2022
6	Tesis	DGB	TESIUNAM	2008-2025
7	Tutorías en Posgrado	CGEP	SIIPosgrado	2008-2021

**Externos**

#	Información	Fuente	Sistema	Periodo
8	Documentos Indexados	Elsevier	Scopus	2008-2025
9	Documentos Indexados	Thomson Reuters	WoS	2008-2025
10	Obras con registro ISBN	INDAUTOR	Agencia ISBN	2008-2025
11	Patentes	IMPI	SIGA	2008-2024