

A biographical sketch



Jin Woo Chang, M.D.,Ph.D.

Professor, Department of Neurosurgery

Director of Brain Research Institute

Yonsei University College of Medicine, Seoul, Korea

Dr. Chang graduated from Yonsei University College of Medicine in 1983 (Licence No. 25235) No. He completed his neurosurgical residency (Certification No. 562) and fellowship for stereotactic & functional neurosurgery at Severance Hospital, Yonsei University in Seoul, Korea.

Dr. Chang specializes in stereotactic & functional neurosurgery and his main interest is the neuromodulation of the central nervous system with new innovative techniques (electrical stimulation, focused ultrasound and etc).

As a leading pioneer in the field of stereotactic and functional neurosurgery, which is closely related to the rapidly developing field of neuroscience, Dr. Chang has laid the foundation for clinical research for stereotactic & functional neurosurgery in Korea. He is known to have adopted and introduced various cutting-edge techniques in Korea for the first time, such as radiofrequency cingulotomy for obsessive compulsive disorders (OCD) in 1998, and Deep Brain Stimulation (DBS) techniques for the treatment of chronic neurological disorders such as Parkinson's disease (PD) and essential tremor (ET) in 2000.

Dr. Chang also participated for innovative clinical research of MRI-Guided Focused Ultrasound Surgery (MRgFUS) from the primary stage to the treatment of various conditions such as Parkinson's disease, obsessive-compulsive disorder(OCD), and depression. Through his continued research in this technique, he has contributed more than any other person to the wide adoption and understanding of MRgFUS around the world by the suggestion of the special guideline for selecting the optimal candidates of MRgFUS lesioning procedure. Because of these contributions, he received the William and Francis Fry Honorary Award at the 2021 ISTU meeting.

Since 1993, Dr. Chang has published more than 270 academic papers in SCI(E) journals around the world. He has been selected as the co-author of prominent neurosurgery textbooks more than 8 times, and he has authored countless domestic papers and textbooks.

Currently Dr. Chang serves as a section editor of World Neurosurgery which is an official journal of World Federation of Neurological Surgeons (WFNS). He is also a member of the editorial board for the official journal of World Society for Stereotactic & Functional Neurosurgery (WSSFN) as well as the official journal of the International Neuromodulation Society (INS).

In addition to his various editorial duties, Dr. Chang served as the president of many domestic academic societies such as Korean Society for Stereotactic & Functional Neurosurgery (KSSFN), Korean Society for Therapeutic Ultrasound (KSTU) and Korean Neurosurgical Society (KNS). And he was serving as the president of World Society for Stereotactic & Functional Neurosurgery (WSSFN) from 2019 to 2022..

Current Status, Challenges and Future Perspective of MR guided Focused Ultrasound Blood Brain Barrier Opening for Neurological Disorders.

Jin Woo Chang, MD, PhD

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Our knowledge of the nervous system in health and disease has, however, increased considerably during the last fifty years. Recently, neurosurgery reveals promising new stereotactic strategies such as neuromodulation by the thermal lesioning, deep brain stimulation, radiosurgery, and a laser ablation to deal with diseases of the central nervous system. Since 2010, the field of MRI guided high intensity focused ultrasound surgery (MRgFUS) is evolving and offers the new hope for the treatment of many brain disorders through both ablative mechanism and non-ablative mechanisms such as drug delivery, neuromodulation and blood brain barrier disruption (BBBD).

Most recently we demonstrated the beneficial effect of MRgFUS by performing incisionless minimally invasive Vim thalamotomy as a treatment for essential tremor, Parkinson's disease, obsessive compulsive disorders and etc . As well, we recently are undergoing the clinical trial of the feasibility study as well as the basic research works of glioblastoma (GBM) and Alzheimer's disease (AD).

In this presentation, I will demonstrate the clinical experiences, as well as my laboratory works for BBBD MRgFUS with animal of AD.



阳青松

- ◆ 阳青松，医学博士，上海长海医院介入治疗科 主任助理 副主任医师 副教授。共计发表SCI论文13篇，单篇影响因子最高8.702分，共计发表核心期刊论文29篇。获包括国家自然科学基金重大研究计划及省部级基金共计4项，经费总计80万。长期从事前列腺癌磁共振引导聚焦超声刀局灶治疗和肝脏肿瘤的介入治疗研究。现主持“ExAblate™磁共振引导聚焦超声(MRgFUS)用于治疗器官局限性中风险前列腺癌 (OC-IRPC)：安全性有效性评估”国际多中心研究一项。现任第十届上海放射学会泌尿生殖学组组长，中国医学装备协会磁共振应用专业委员会第一届委员会微创学组组长。

吳孟晃 主任

現職：

- 臺北醫學大學附設醫院骨科部脊椎骨科 主任
- 臺北醫學大學附設醫院創新前瞻中心 主任
- TMU Biodesign Center 執行長
- 臺北醫學大學醫學系骨科學科 專任助理教授
- 台灣脊椎微創醫學會 理事
- 台灣脊椎微創內視鏡醫學會 常務理事
- 臺灣醫學設計學會 理事、國際事務與學術委員會副主任
- 美國史丹佛生醫創新設計 Biodesign 國際培訓講師
- AOSpine/APSS/ORS/NASS/TSS/TSMISS/SICOT 會員



經歷：

- 美國史丹佛骨科、費城 Rothman Institute 骨科、APSS 香港大學骨及外傷科脊椎、韓國首爾天主教大學骨科臨床研究員
- 衛生福利部醫材臨床試驗 培訓人員
- 基隆長庚紀念醫院內科 住院醫師
- 嘉義長庚紀念醫院骨科住院醫師、總醫師
- 嘉義長庚紀念醫院脊椎外科 主治醫師、學術組講師

專長：

脊椎外科、骨科生物力學、脊椎醫學、脊髓損傷復健、骨脊椎外科、骨移植材料、骨腫瘤、骨質疏鬆、微創脊椎手術

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Current Positions

- Associate Professor 4 Department of Neurosciences
College of Medicine – Philippine General Hospital
University of the Philippines Manila
Taft Ave., Ermita, Manila 1000, Philippines
Jan 31, 2022 – present
- Head Section of Neurology, Department of Medicine
Cardinal Santos Medical Center
Jan. 1, 2023 – present
- Head Movement Disorder Service, St. Luke's Medical Center – Global City
Jan. 1, 2019 – present
- Active Consultant Movement Disorders Service and Section of Neurology
Institute for Neurosciences
St. Luke's Medical Center – Quezon City & Global City
- Active Consultant Philippine Movement Disorder Surgery Center (Philmove) and the
Section of Neurology, Department of Medicine
Cardinal Santos Medical Center
- Editorial Board Member Parkinsonism and Related Disorders
Jan. 1, 2022 – present
- Editorial Board Member, Movement Disorders BMC Neurology
Nov. 3, 2020 – present
- Review Editor, Movement Disorders Frontiers in Neurology
Dec. 16, 2018 – present
- Member Neuroepidemiology Specialty Group, World Federation of Neurology
Nov. 5, 2019 – present

Previous Positions

- Feb. 6, 2008 – Jan. 30, 2022 Clinical Associate Professor, Department of Neurosciences
College of Medicine – Philippine General Hospital
University of the Philippines Manila

- Sep. 13, 2017 – Dec. 31, 2019 Member, AOPMC Scientific Planning Committee
International Parkinson and Movement Disorder Society
- Jun. 30, 2017 – Sep. 30, 2019 Member, Congress Scientific Program Committee
International Parkinson and Movement Disorder Society
- Jun 22, 2015 – Sep. 30, 2019 Member, Executive Committee, Asian Oceanian Section
International Parkinson and Movement Disorder Society
- Mar. 2014 – Dec. 2018 Member, Research Committee, Philippine Neurological Association
- 2014 – Mar. 2018 President, Movement Disorder Society of the Philippines, Inc.
- Jan. 2015 – Mar. 2016 Chair, AOPMC Local Organizing Committee (ALOC), 5th Asian and Oceanian
Parkinson's Disease and Movement Disorders Congress (AOPMC)
Marriott Hotel Manila. Pasay City
- Jan. 2013 – Dec. 2015 Adult Neurology Residency Training Officer
Department of Neurosciences
College of Medicine – Philippine General Hospital
University of the Philippines Manila
- Jun. 28, 2011 – Jun. 30, 2015 Member, Educational Committee – Asian Oceanian Section
International Parkinson and Movement Disorder Society
- 2011 – 2013 Vice-President, Movement Disorder Society of the Philippines, Inc.
- Jan. 2010 – Dec. 2012 Executive Officer & Assistant Chair for Planning
Department of Neurosciences
College of Medicine – Philippine General Hospital
University of the Philippines Manila
- 2009 – Mar. 31, 2011 Head, Movement Disorders Center, International Institute for Neurosciences
St. Luke's Medical Center – Global City
- 2007 – Mar. 31, 2011 Head, Movement Disorders Center, International Institute for Neurosciences
St. Luke's Medical Center – Quezon City
- Jan. 1, 2003 – Dec. 31, 2003 Chief Resident, Department of Neurosciences
Philippine General Hospital, University of the Philippines Manila
- Training and Education**
- Mar. 14, 2021 – Mar. 14, 2024 Completed, Good Clinical Practices
NIDA Clinical Trials Network

Sep. 2020 – Jan. 2022	PhD in Health Sciences (by Publication) College of Medicine, University of the Philippines Manila
Aug. – Oct. 2007	Management Development Program for Healthcare Providers AIM Conference Center – Manila, Asian Institute of Management
Mar. 24, 2004 – Jun. 30, 2005	Clinical and Research Fellowship in Movement Disorders Department of Neurology, National Neuroscience Institute 11 Jalan Tan Tock Seng, Singapore
Jan. 1, 2000 – Dec. 31, 2003	Residency in Neurology, Department of Neurosciences Philippine General Hospital – University of the Philippines Manila
May 1, 1998 – Apr. 30, 1999	Rotating Internship, Philippine General Hospital University of the Philippines Manila
Jun. 1994 – Apr. 1998	Doctor of Medicine, College of Medicine University of the East Ramon Magsaysay Memorial Medical Center

Qualifications & Awards

- Outstanding Researcher Awardee
Philippine Neurological Association G.O.L.D. Awards
November 10, 2022
- Gawad Chancellor Award for Most Outstanding Researcher
43rd Anniversary of the Health Sciences Center and 40th UP Manila Day
October 28, 2022
- International Publication Awards, Office of the Vice President for Academic Affairs, University of the Philippines
2016 – 2022
- Fellow, Philippine Neurological Association
Issued November 11, 2006

Publications

Book:

Jamora RD. Opportunities and challenges in the care of patients with X-linked dystonia-parkinsonism in the Philippines. Quezon City: Central Book Supply, Inc.: 2021. P. 1–303.

Book Chapters:

Aguila ME, Tee CA, Boque JC, Salido IT, Jacinto EV, Tee ML, Anlacan VM, **Jamora RD**, Caro JD. Application design of a virtual reality therapy game for patients with cerebral palsy. In: Krouska A, Troussas C, Caro J. Editors. Novel & Intelligent Digital Systems: Proceedings of the 2nd International Conference (NiDS 2022). NiDS

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Anlacan VM, **Jamora RD**, Pangilinan AC, Salido IT, Jacinto ME, Tee ML, Aguila ME, Tee CA, Caro JD. Application design for a virtual reality therapy game for patients with behavioral and psychological symptoms of dementia. In: Krouska A, Troussas C, Caro J. Editors. Novel & Intelligent Digital Systems: Proceedings of the 2nd International Conference (NiDS 2022). NiDS 2022. Lecture Notes in Networks and Systems. Cham: Springer: 2023. Vol. 556. P. 149–160. https://doi.org/10.1007/978-3-031-17601-2_15

Boque JC, Caro J, Juayong RA, **Jamora RD**. Virtual reality tool for rehabilitation of patients with Parkinson's disease: a conceptual design review. In: Frasson C, Kabassi K, Voulodimos A. Editors. Novelties in Intelligent Digital Systems. Amsterdam: IOS Press BV: 2021. Vol. 338. P. 55–62. <https://doi.org/10.3233/FAIA210076>

Jamora RD, Piano AN. How effective and safe is botulinum toxin therapy in cervical dystonia: The current stand. In: Rosales RL, Dressler D. Editors. Botulinum Toxin Therapy Manual for Dystonia and Spasticity. Rijeka: InTech.: 2016. P. 65–77. <https://doi.org/10.5772/64717>

Peer-Reviewed Articles:

Espiritu AI, Sucaldito MS, Anlacan VM, Apor AD, Ona DI, Sy MC, **Jamora RD**. Clinical outcomes in COVID-19 among patients with hypertension in the Philippine CORONA Study. Accepted for publication in the *Eur J Med Res* 12/22/22.

Anlacan VM*, **Jamora RD***, Panganiban AC*, Salido IT, Apuya RA, Tee ML, Aguila ME, Tee CA, Caro JD. Analysis of virtual reality therapy game prototype for persons living with dementia in the Philippines. Accepted for publication in 12/7/22. *joint first authors

Palisoc MP, Navarro AJ, **Jamora RD**. Diabetic striatopathy in pediatric patient: a case report on a reversible and acquired movement disorder. Accepted for publication in *Acta Neurol Taiwan* 11/22/22.

Anlacan VM, Piamonte BL, Sy MC, Villanueva EQ, **Jamora RD**, Espiritu AI. Clinical outcomes of older persons and persons with dementia admitted for coronavirus disease 2019: findings from the Philippine CORONA Study. Accepted for publication to *Dement Geriatr Cogn Disord* 9/6/22.

Trinh J, Lüth T, Schaake S, Laabs B, Schlüter K, Lass J, Pozojevic J, Tse R, König I, **Jamora RD**, Rosales RL, Brüggemann N, Saranza G, Diesta CC, Kaiser F, Depienne C, Pearson CE, Westenberger A, Klein C. Mosaic divergent repeat interruptions in XDP influence repeat stability and disease onset. *Brain*. 2022 Apr 27:awac160. <https://doi.org/10.1093/brain/awac160>

Alonto AH, Apor AD, **Jamora RD**. Burden of neurological diseases in the Philippines as revealed by web searches: an infodemiological study. *Int J Environ Res Public Health*. 2022;19(24):16736. <https://doi.org/10.3390/ijerph192416736>

Apor AD*, **Jamora RD***. Research productivity among Filipino neurologists associated with socioeconomic, healthcare, and disease burden factors: a bibliometric analysis. *Int J Environ Res Public Health*. 2022;19(23):15630. <https://doi.org/10.3390/ijerph192315630> *contributed equally

Algodon SM, Fischer T, Rosales R, **Jamora RD**, Diesta CC, Saranza G, Bruggemann N, Klein C, Westenberger A. Low frequency of p.S510G in *PIAS1* challenges its relevance for modifying repeat expansion disorders. *Mov Disord*. 2022;37(10):2168-2169. <https://doi.org/10.1002/mds.29191>

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Terencio BB, Patiño RF, **Jamora RD**. Guillain-Barré syndrome in a pediatric COVID-19 patient: a case report and review of literature. *Acta Med Philipp*. 2022;56(17):53-60. <https://doi.org/10.47895/amp.vi0.3814>

Jamora RD*, Prado MB Jr.*, Anlacan VM, Sy MC, Espiritu AI. Incidence and risk factors for stroke in patients with COVID-19 in the Philippines: an analysis of 10,881 cases. *J Stroke Cerebrovasc Dis*. 2022;31(11):106776. <https://doi.org/10.1016/j.jstrokecerebrovasdis.2022.106776> *joint first authors

Laxamana FE, Leochico CF, Espiritu AI, Sy GI, Rey-Matias RR, **Jamora RD**. Feasibility of speech telerehabilitation for a patient with Parkinson's disease in a low-resource country during the pandemic: a case report. *Acta Med Philipp*. 2022;56(12):74-80. <https://doi.org/10.47895/amp.vi0.3484>

Espiritu AI, Reyes NG, Leochico CF, Sy MC, Villanueva EQ, Anlacan VM, **Jamora RD**. Body mass index and its association with COVID-19 clinical outcomes: findings from the Philippine CORONA Study. *Clin Nutr ESPEN*. 2022;49:402-410. <https://doi.org/10.1016/j.clnesp.2022.03.013>

Roberto KT, **Jamora RD**, Moalong KM, Espiritu AI. Infodemiology of autoimmune encephalitis, autoimmune seizures, and autoimmune epilepsy: an analysis of online search behavior using Google Trends. *Epilepsy Behav*. 2022;132:108730. <https://doi.org/10.1016/j.yebeh.2022.108730>

Geronimo KC, Maylem GC, Anlacan VM, Sta. Maria MA, **Jamora RD**. Impact and challenges to the neurology residency training in The Medical City during the COVID-19 pandemic. *Acta Med Philipp*. 2022;56(7):43-48. <https://doi.org/10.47895/amp.vi0.2299>

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Mondia MW, Espiritu AI, **Jamora RD**. Brain tumor infodemiology: worldwide online health-seeking behavior using Google Trends and Wikipedia Pageviews. *Front Oncol*. 2022;12:855534. <https://doi.org/10.3389/fonc.2022.855534>

Espiritu AI, Larrazabal R Jr, Sy MC, Villanueva EQ, Anlacan VM, **Jamora RD**. Outcomes and risk factors of patients with COVID-19 and cancer (ONCORONA): findings from the Philippine CORONA Study. *Front Oncol*. 2022;12:857076. <https://doi.org/10.3389/fonc.2022.857076>

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Pozojevic J, Algodon SM, Cruz JN, Trinh J, Brüggemann N, Laas J, Grütz K, Schaake S, Tse R, Yumiceba V, Kruse N, Schulz K, Sreenivasan V, Rosales RL, **Jamora RD**, Diesta CC, Matschke J, Glatzel M, Kirchner H, Seibler P, Händler K, Rakovic A, Spielmann M, Kaiser FJ, Westenberger A, Klein C. Transcriptional alterations in X-linked dystonia-parkinsonism caused by the SVA retrotransposon. *Int J Mol Sci*. 2022;23(4):2231. <https://doi.org/10.3390/ijms23042231>

Perez DQ, Espiritu AI, **Jamora RD**. Perampanel in achieving status epilepticus cessation: a systematic review. *Epilepsy Behav*. 2022;128:108583. <https://doi.org/10.1016/j.yebeh.2022.108583>

Pagaling GT, Turalde CW, **Jamora RD**. Autoimmune encephalitis in the Philippines: a scoping review on the treatment gaps, challenges, and current state of care. *Front Neurol*. 2022;13:788309. <https://doi.org/10.3389/fneur.2022.788309>

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Lüth T, Lass J, Schaake S, Wohlers I, Pozojevic J, **Jamora RD**, Rosales RL, Brüggemann N, Saranza G, Diesta CC, Schlüter K, Tse R, Reyes C, Busch H, Klein C, Westenberger A, Trinh J. Elucidating hexanucleotide repeat number and methylation within the TAF1 SVA in X-linked dystonia-parkinsonism with Nanopore sequencing. *Genes (Basel)*. 2022;13(1):126. <https://doi.org/10.3390/genes13010126>

Sarmiento RJ, Enriquez CA, Jalipa FG, Piamonte BC, Diestro JD, Dioquino CP, Goffi A, **Jamora RD**. Rocuronium as neuromuscular blockade in tetanus patients with methamphetamine use disorder: a case report. *Neurohospitalist*. 2022;12(1):121–126. <https://doi.org/10.1177/19418744211022995>

Fernando EZ*, **Jamora RD***, Torio EF, Mariano MM, Cuanang JR, de Guzman VE. Acute subdural hemorrhage as the initial presentation of intracranial hypotension after cervical chiropractic manipulation: a case report and systematic review. *Neurohospitalist*. 2022;12(1):57–62. <https://doi.org/10.1177/1941874420977767> *joint first authors

Piamonte BL, Anlacan VM, **Jamora RD**, Espiritu AI. Googling Alzheimer disease: an infodemiological and ecological study. *Dement Geriatr Cogn Disord Extra*. 2021;11(3):333–339. <https://doi.org/10.1159/000520692>

Espiritu AI, Chiu HH, Sy MC, Anlacan VM, The Philippine CORONA Study Group, **Jamora RD**. The outcomes of patients with diabetes mellitus in The Philippine CORONA Study. *Sci Rep*. 2021;11(1):24436. <https://doi.org/10.1038/S41598-021-03898-1>

Turalde CW, Espiritu AI, **Jamora RD**. Associations of motor neuron disease research productivity and socioeconomic factors in Southeast Asia: a bibliometric analysis. *Arq Neuropsiquiatr*. 2021;79(11):1002–1011. <https://doi.org/10.1590/0004-282X-ANP-2019-0464>

Espiritu AI, Separa KJ, Milla FJ, Adiao KJ, Leochico CF, **Jamora RD**. Clinical features and real-world outcomes of Guillain-Barré syndrome in the Philippines. *Neurol Res*. 2021;43(12):995–1004. <https://doi.org/10.1080/01616412.2021.1948750>

Yu JR*, **Jamora RD***, Silverio EL, Bautista JM, Luspian KJ, Tiongson RM, Ng AR. Spectrum of movement disorders in two movement disorders centers in the Philippines. *Acta Neurol Taiwan*. 2021;30(3):94–100. *joint first authors

Moalong KM, **Jamora RD**, Roberto KT, Espiritu AI. Patterns of Google search interest and behavior for seizures and epilepsy in the Philippines: an infodemiological study. *Epilepsy Behav*. 2021;125:108377. <https://doi.org/10.1016/j.yebeh.2021.108377>

Espiritu AI, Sy MC, Anlacan VM, **Jamora RD**, Philippine CORONA Study Group Investigators. COVID-19 Outcomes of 10,881 patients: Retrospective study Of Neurological symptoms and Associated manifestations (Philippine CORONA Study). *J Neural Trans (Vienna)*. 2021;128(11):1687–1703. <https://doi.org/10.1007/s00702-021-02400-5>

Jamora RD*, Prado MB Jr*, Chua CL. Acetylcholinesterase inhibitor responsive myasthenia in a Filipino male with X-linked recessive spinal and bulbar muscular atrophy. *Neurol Sci*. 2021;42(10):4317–4320. <https://doi.org/10.1007/s10072-021-05358-0> *joint first authors

Collantes ME, Zuñiga YH, Granada CN, Uezono DR, de Castillo LC, Enriquez CA, Ignacio KD, Ignacio SD, **Jamora RD**. Current state of stroke care in the Philippines. *Front Neurol*. 2021;12:665086. <https://doi.org/10.3389/fneur.2021.665086>

Layug EJ, Espiritu AI, Calotes-Castillo LV, **Jamora RD**. The association of online search interest with polio cases and vaccine coverage: an infodemiological and ecological study. *Eur J Pediatr*. 2021;180(8):2435–2441. <https://doi.org/10.1007/s00431-021-04049-4>

dela Vega MP, Yu JR, Espiritu AI, **Jamora RD**. Primary headache research output and its association with socioeconomic factors in Southeast Asia: a bibliometric analysis. *Neurol Sci*. 2021;42(7):2683–2693. <https://doi.org/10.1007/s10072-021-05266-3>

Reyes CJ, Laabs BH, Schaake S, Lüth T, Ardicoglu R, Rakovic A, Grütz K, Alvarez-Fischer D, **Jamora RD**, Rosales RL, Weyers I, König IR, Brüggemann N, Klein C, Dobricic V, Westenberger A, Trinh J. Brain regional differences in hexanucleotide repeat length in X-linked dystonia-parkinsonism using Nanopore sequencing. *Neurol Genet*. 2021;7:e608. <https://doi.org/10.1212/NXG.0000000000000608>

Perez JA, Espiritu AI, **Jamora RD**. Google search behavior for meningitis and its vaccines: an infodemiological study. *BMC Neurol*. 2021;21(1):232. <https://doi.org/10.1186/s12883-021-02258-w>

Espiritu AI, Brillantes MM, Layog AV, **Jamora RD**. Reasons for hospitalization and factors of mortality in patients with Parkinson's disease in the Philippines. *Neurodegener Dis Manag*. 2021;11(3):229–238. <https://doi.org/10.2217/nmt-2020-0062>

Chua AM*, **Jamora RD***, Jose AC, Anlacan VM. Cerebral vasculitis in a COVID-19 confirmed postpartum patient: a case report. *Case Rep Neurol*. 2021;13(2):324–328. <https://doi.org/10.1159/000515815> *joint first authors

Reyes NG, Espiritu AI, Agabao JF, Abejero JE, Salonga-Quimpo RA, Cabral-Lim LI, **Jamora RD**, Pascual JL, Fernandez ML, Gosiengfiao KT. Autoimmune encephalitis in a tertiary hospital in the Philippines. *J Clin Neurosci*. 2021;90:191–198. <https://doi.org/10.1016/j.jocn.2021.05.052>

Ocampo FF, Tipones RN, **Jamora RD**. Human herpes virus 6 encephalitis presenting as fatal refractory status epilepticus: a case report and systematic review. *Acta Neurol Taiwan*. 2021;30(1):21–26.

Laabs BH, Klein C, Pozojevic J, Domingo A, Brüggemann N, Grütz K, Rosales RL, **Jamora RD**, Saranza G, Diesta CC, Wittig M, Schaake S, Dulovic-Mahlow M, Quismundo J, Otto P, Acuna P, Go C, Sharma N, Mulhaupt-Buell T, Müller U, Hanssen H, Kilpert F, Franke A, Rolfs A, Bauer P, Dobričić V, Lohmann K, Ozelius L, Kaiser FJ, König IR, Westenberger A. Identifying genetic modifiers of age-associated penetrance in X-linked dystonia-parkinsonism. *Nat Commun*. 2021;12:3216. <https://doi.org/10.1038/s41467-021-23491-4>

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Jamora RD, Jardin VM, Collantes ME, Reyes JP. Facial nerve outcome in acoustic neuroma surgery. *Philipp J Neurol*. 2003;7(1):18–22.

Jamora RD, Kishi-Generao EM Jr., Bitanga ES, Gan RN, Apaga NE, San Jose MC. The ICH score: predicting mortality and functional outcome in an Asian population. *Stroke*. 2003;34(1):6–7.
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Lectures/ Talks Delivered (2021 – 2022)

International Meetings:

- Speaker, Virtual Global Neurology Grand Rounds
Jefferson Global Clinical Neurology and Neurosurgery Education (JEFF Global CoNECT)
Thomas Jefferson University Hospital
Philadelphia, PA, USA
March 25, 2022
- Speaker, Virtual Neurology Grand Rounds
University Medical Centre Gronigen
Gronigen, The Netherlands
February 11, 2022
- Speaker, Acute neurological manifestations of COVID-19 infection
Virtual - 14th Biennial Convention of the ASEAN Neurological Association: Fostering ASEAN collaboration to advance new technologies for neurologists during COVID-19 pandemic
October 20, 2021

- Speaker, Approach to dystonia
Virtual - MDS-AOS 3rd School for Young Neurologists
October 16, 2021
- Speaker, First experience on MRgFUS for XDP patients
Virtual - Taiwan Focused Ultrasound Brain Treatment Forum
October 2, 2021
- Speaker, Health disparities in PD – Is treatment goal the same to all our patients?
Virtual - Highlights of 2021 MDS Congress & Case Discussions on Parkinson's Disease
September 28, 2021
- Speaker, Health disparities in movement disorders
Virtual - MDS Virtual Congress 2021
September 20, 2021
- Speaker, Parkinson's disease
Virtual - A Life Well-Lived: Celebrating Wellness
Singapore School of Arts Management, Dance, & Theatre
April 30, 2021

Local Meetings:

- Speaker, Opportunities and challenges in the care of patients with X-linked dystonia-parkinsonism
44th PNA Annual Convention
Grand Hyatt Hotel. Global City, Philippines
November 18, 2022
- Speaker, The neurologist as researcher: how to build clinical research studies in private practice
Virtual - 28th Philippine Neurological Association Midyear Convention: MINDFIELDS: Multifaceted neurologists in fields of excellence
June 10, 2022
- Speaker, Deep brain stimulation and focused ultrasound in X-linked dystonia-parkinsonism
Virtual - The UP-PGH Faculty and Alumni of the Neurosciences, Inc. (UPFANS) and the Department of Neurosciences Postgraduate Course: The 19th Neurology in Your Practice: Between Neurology and Neurosurgery
The Pan Pacific Manila. Manila, Philippines
April 9, 2022
- Speaker, Acute and long COVID
CNS Experts' Meeting
The Peninsula Manila. Makati City, Philippines
December 8, 2021
- Speaker, Beyond the pandemic: the unknown late neurologic complications of COVID-19

Virtual - 51st Philippine College of Physicians Annual Congress
May 4, 2021

- Speaker, Case reports/case series
Virtual - PNA Research Workshop Series
April 7, 2021

HIFU for Parkinson's disease and X-linked dystonia-parkinsonism: The Philippine experience

By: Roland Dominic G. Jamora, MD, PhD

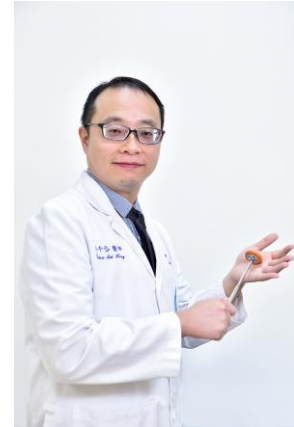
The Philippine General Hospital began offering HIFU for tremors in 2021. So far, 14 patients with Parkinson's disease have underwent the procedure. The initial results will be presented, together with the screening procedure.

Our initial experience on HIFU for X-linked dystonia-parkinsonism, done with Show Chwan Memorial Hospital will also be presented.

Curriculum Vitae

Chien-Tai Hong (洪千岱)

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Academic Position

Aug 2020~, Associate Professor, Department of Neurology, School of Medicine, College of Medicine, Taipei Medical University, Taipei, Taiwan
Aug 2022~, Director, Department of Research, Shuang Ho Hospital, Taipei Medical University, New Taipei City, Taiwan
Mar 2022~, Director, Center of Movement Disorders, Shuang Ho Hospital, Taipei Medical University, New Taipei City, Taiwan

Education

M.D. School of Medicine, Taipei Medical University, Taipei, Taiwan. Jun 2005
Ph.D. Institute of Neurology, University College London, London, UK. Oct.2014

Working Experiences

Aug 2009~Aug 2011, Attending Physician, Department of Neurology, Far Eastern Memorial Hospital, New Taipei City, Taiwan
Aug 2009~June 2011, Part-time Physician, Department of Neurology, National Taiwan University Hospital, Taipei, Taiwan
Jan 2015~, Attending Physician, Department of Neurology, Shuang Ho Hospital, Taipei Medical University, New Taipei City, Taiwan
Nov 2016~Jul 2020, Assistant Professor, Department of Neurology, School of Medicine, College of Medicine, Taipei Medical University, Taipei, Taiwan

Research Interests

Parkinson's disease, Mitochondria, Biomarkers, Exosome, Inflammation, Gut-microbiota

Board Certifications

2008 Neurologist, Taiwan Neurological Society, Taiwan, ROC; Board No. #810
2005 Medical Doctor, Taiwan ROC; License # 038795

Awards

- 2008 Excellent poster presentation at the Annual Conference of Taiwan Neurological Society
- 2009 Scholarship of Study Abroad, Minister of Education, Taiwan

- 2020 Excellent poster presentation at the Annual Conference of Taiwan Movement Disorder Society
- 2021 Academic Research Award, Taipei Medical University
- 2022 Academic Research Award, Taipei Medical University

Publications

1. Hong, CT, Chau KY, Schapira AHV. Meclizine–induced enhanced glycolysis is neuroprotective in Parkinson disease cell models. *Sci. Rep.* 6, 25344; doi: 10.1038/srep25344 (2016)
2. Hong CT, Chau KY, Schapira AHV. The cytomegalovirus protein pUL37x1 targets mitochondrial to mediate neuroprotection. *Sci. Rep.* 6, 31373. doi:10.1038/srep31373 (2016)
3. CT Hong, YH Huang, HY Liu, HY Chiou, L Chan, LN Chien Newly diagnosed anemia increases risk of Parkinson’s disease: a population-based cohort study. *Scientific Reports* 6, 29651 (2016)
4. CT Hong, L Chan, D Wu, WT Chen, LN Chien. Antiparkinsonism anticholinergics increase dementia risk in patients with Parkinson’s disease. *Parkinsonism Relat Disord* 2019 ; 65 : 224-229
5. CT Hong, KY Chen, W Wang, JY Chiu, D Wu, TY Chao, CJ Hu, KY D Chau, OA Bamodu. Insulin Resistance Promotes Parkinson’s Disease through Aberrant Expression of α -Synuclein, Mitochondrial Dysfunction, and Dereglulation of the Polo-Like Kinase 2 Signaling. *Cells* 2020, 9(3), 740 (First and co-corresponding author)
6. CC Chung, PH Huang, L Chan, JH Chen, LN Chien, CT Hong. Plasma Exosomal Brain-Derived Neurotrophic Factor Correlated with the Postural Instability and Gait Disturbance–Related Motor Symptoms in Patients with Parkinson’s Disease *Diagnostics* 2020, 10(9), 684
7. SY Chou, L Chan, CC Chung, JY Chiu, YIC Hsieh, CT Hong. Altered Insulin Receptor Substrate 1 Phosphorylation in Blood Neuron-Derived Extracellular Vesicles from Patients with Parkinson’s Disease. *Front. Cell Dev. Biol.* 2020, 8:564641 (Corresponding author)
8. CC Chung, L Chan, JH Chen, OA Bamodu, CT Hong. Neurofilament light chain level in plasma extracellular vesicles and Parkinson’s disease. *Ther Adv Neurol Disord* 2020, Vol. 13: 1–9 (Corresponding author)
9. Chan L, Chung, CC, Chen JH, Yu RC, Hong CT. Cytokine Profile in Plasma Extracellular Vesicles of Parkinson’s Disease and the Association with Cognitive Function. *Cells* 2021, 10, 604 (Corresponding author)
10. CT Hong, S Tan, TW Huang. Psychotherapy for the Treatment of Anxiety and Depression in Patients With Parkinson Disease: A Meta-Analysis of Randomized

- Controlled Trials. *J Am Med Dir Assoc*, 2021, S1525-8610(21)00340-6.
11. CC Chung, L Chan, JH Chen, YC Hung, CT Hong. Plasma Extracellular Vesicle α -Synuclein Level in Patients with Parkinson's Disease. *Biomolecules* 2021, 11(5), 744. (Co-corresponding author)
 12. CC Chung, L Chan, JH Chen, OA Bamodu, HW Chiu, CTai Hong. Plasma extracellular vesicles tau and β -amyloid as biomarkers of cognitive dysfunction of Parkinson's disease. *FASEB J*. 2021;35:e21895. (Corresponding author)
 13. Chen J-H, Chan L, Chung C-C, Bamodu OA, Hong C-T. Blood Neurofilament Light Chain in Parkinson's Disease: Comparability between Parkinson's Progression Markers Initiative (PPMI) and Asian Cohorts. *Journal of Clinical Medicine*. 2021; 10(21):5085. (Co-corresponding author)
 14. JH Chen, TW Huang, CT Hong. Cholinesterase Inhibitors for Gait, Balance, and Fall in Parkinson Disease: A Meta-analysis. *npj Parkinsons Dis* (2021) 7:103 (Corresponding author)
 15. Chang HY, Li YY, Hong CT, Kuan YC. Efficacy of rasagiline monotherapy for early Parkinson disease: A systematic review and meta-analysis of randomized controlled trials. *J Psychopharmacol*. 2022 May 12:2698811221093795. doi: 10.1177/02698811221093795. (Co- Corresponding author)
 16. Hong CT, Chen J, Huang T. Probiotics treatment for Parkinson disease: a systematic review and meta-analysis of clinical trials. *Aging (Albany NY)*. 2022 Sep 9;14(17):7014-7025. doi: 10.18632/aging.204266.
 17. Hong CT, Chan L, Chen KY, Lee HH, Huang LK, Yang Y-CSH, Liu YR, Hu CJ. Rifaximin Modifies Gut Microbiota and Attenuates Inflammation in Parkinson's Disease: Preclinical and Clinical Studies. *Cells*. 2022; 11(21):3468. <https://doi.org/10.3390/cells11213468>

Grant and Funding

1. Diabetes and the risk of Parkinson's disease: investigating the association between insulin resistance and Parkinson's disease. MOST 105-2314-B-038-017. 2016/08-2017/07
2. Diabetes and the risk of Parkinson's disease: investigating the association between insulin resistance and Parkinson's disease-second term project. MOST 106-2314-B-038 -023 -MY3. 2017/08-2020/07
3. PANK2 mutations and the neurodegeneration: investigating the pathogenetic mechanisms and identifying the new treatment. MOST 107-2314-B-038 -086 -MY2 2018/08-2020/07
4. Modulation of gut microbiota by rifaximin in PD patients. TMU IIT-107-005
5. The application of repetitive transcranial magnetic stimulation to the freezing of gait in people with Parkinson's disease. TMU-SHH IIT 109IIT-01

6. Inflammation and Parkinson disease dementia: Develop blood exosomal biomarkers and novel treatment. MOST 110-2314-B-038-096 2021/08-2022/07
7. Inflammation and Parkinson disease dementia: Develop blood exosomal biomarkers and novel treatment-second term project. MOST 111-2314-B-038-136 - 2022/08-2023/07

PROFESSIONAL MEMBERSHIPS

2005~present: Formosan Medical Association, Taiwan

2006~present: Taiwan Neurological Society, Taiwan

2008~present: Taiwan Movement Disorder Society

2014~present: International Parkinson and Movement Disorder Society

2016~present: Taiwan Stroke Society

2017~present: Taiwan Society for Mitochondrial Research and Medicine

2019~present: Director, Parkinson Alliance of Taiwan

2020~present: Director, Taiwan Movement Disorder Society

Abstract

Magnetic resonance–guided focused ultrasound (MRgFUS) is a new surgical treatment for Parkinson’s disease (PD). Previous experience with radiofrequency lesionectomy and deep brain stimulation (DBS) has identified several candidate targets for MRgFUS intended to alleviate the motor symptoms of PD. The main advantage of MRgFUS is that it is noninvasive. MRgFUS has certain limitations and is associated with adverse effects. The present speech reviews the literature on conventional surgical interventions for PD, discusses recent studies on MRgFUS, and describes MRgFUS in detail, including the treatment protocol. Furthermore, DBS and MRgFUS for PD are compared, providing an essential reference for neurologists to select the appropriate treatments for patients with PD.

CURRICULUM VITAE

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Education and Professional Training

- M.D, College of Medicine, Taipei Medical University, Taiwan
- Residency of Department of Radiation Oncology at Wan Fang Hospital, Taipei

Professional Experience

2016 ~ Attending physician in the Department of Radiation Oncology at Shuang-Ho Hospital

Current Position

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Professional Certifications

- Radiation Oncology Board Certification – Radiation Oncology
- Taiwan Academy of Hospice Palliative Medicine Certification – Hospice and Palliative Care

Publications

1. Hsu, F.C.; Lee, H.L.; Chen, Y.J.; Shen, Y.A.; **Tsai, Y.C.**; Wu, M.H.; Kuo, C.C.; Lu, L.S.; Der Yeh, S.; Huang, W.S.; et al. A Few-Shot Learning Approach Assists in the Prognosis Prediction of Magnetic Resonance-Guided Focused Ultrasound for the Local Control of Bone Metastatic Lesions. *Cancers* 2022, 14, 445.
2. **Tsai, Y.C.**; Lee, H.L.; Kuo, C.C.; Chen, C.Y.; Hsieh, K.L.C.; Wu, M.H.; Wen, Y.C.; Yu, H.W.; Hsu, F.C.; Tsai, J.T.; et al. Prognostic and Predictive Factors for Clinical and Radiographic Responses in Patients with Painful Bone Metastasis Treated with Magnetic Resonance-Guided Focused Ultrasound Surgery. *Int. J. Hyperth.* 2019, 36, 931–936.
3. **Yi-Chieh Tsai**, Jia-Wei Lin, Shih-Chung La³, An-Cheng Shiau, Jo-Ting Tsai. Gamma Knife Perfexion[®] Radiosurgery for Intraocular Tumor - Technique Establishment and Preliminary Result. *Therapeutic Radiology and Oncology* 2013 (20).
4. **Yi-Chieh Tsai***, Chun-Yuan Kuo*, Jia-Wei Lin, Shun-Tai Yang, Shih-Chung Lai, Jo-Ting Tsai. Gamma Knife[®] Perfexion Radiosurgery and Endodiode Laser Thermotherapy for

Choroidal Melanoma with Technical Analysis. Oncology Letters 2016. Available online 16 June 2016, In Press, Accepted Manuscript.(SCI)

5. Chun-Yuan Kuo*, **Yi-Chieh Tsai***, An-Cheng Shiau, Hao-Wen Cheng, Hsiao-Wei Yu , Yu-Kai Su, Jo-Ting Tsai. Evaluation of Clinical Application and Dosimetric Comparison of Treatment Plans of Gamma Knife and CyberKnife in Treating Arteriovenous Malformations
-

Abstract

High-intensity focused ultrasound hyperthermia, which heats targeted lesions to temperatures of 65–85 °C, was conceptually designed for bone pain palliation primarily through thermally induced cell death of the treated bone tumor and immediate periosteal denervation. By integrating real-time magnetic resonance imaging (MRI) with high-intensity focused ultrasound hyperthermia, MR-guided focused ultrasound surgery (MRgFUS) allows the continual monitoring of treatment sites and temperature mapping through MR thermometry, thus providing accurate and precise treatment for bony lesions.

MRgFUS has emerged as an alternative treatment modality for pain relief in patients with bone metastasis, which can result in rapid pain relief between 3 days and 2 weeks after treatment, with around 70% clinical response rate after 3 months, and improved patient's quality of life. Since MRgFUS allows efficient heating of bony structures, it has found not only early use in treatment of bone pain, but also in local treatment of malignant bone tumors. Furthermore, MRgFUS is a safe method with mainly transient treatment-related effects such as occasional skin burns or a pain flare shortly after treatment, all resolving within a few days after therapy, making it a very patient-friendly treatment option.

簡歷



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八、 工作資歷 **Employment Record:**

基隆長庚醫院外科住院醫師

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功能性神經外科

疼痛治療

癲癇手術

放射手術

十、 研究領域

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功能性神經影像學