

# Stanford

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## Fred Chiu-Lai Lam

Clinical Instructor, Neurosurgery

### CLINICAL OFFICE (PRIMARY)

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### Bio

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#### CLINICAL FOCUS

- Neurological Surgery

#### ACADEMIC APPOINTMENTS

- Clinical Instructor, Neurosurgery

#### PROFESSIONAL EDUCATION

- Fellowship: Northwell Health Dept of Neurosurgery (2022) NY
- Fellowship: Beth Israel Deaconess Med Center/Harvard (2010) MA
- Board Certification: Neurological Surgery, Royal College of Physicians and Surgeons of Canada (2009)
- Residency: University of Alberta (2009) Canada
- Medical Education: University of British Columbia - UBC (2003) Canada
- Residency: University of Alberta Canada

### Publications

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#### PUBLICATIONS

- **Surgical resection versus stereotactic radiosurgery for succinate dehydrogenase-related hereditary head and neck paragangliomas.** *Journal of neuro-oncology*  
Harary, P. M., Hori, Y. S., Lam, F. C., Abu-Reesh, D., Emrich, S. C., Tayag, A., Ustrzynski, L., Alyono, J., Holsinger, F. C., Dodd, R. L., Gibbs, I. C., Li, G., Park, et al  
2026; 176 (2): 168
- **Artificial intelligence (AI) uses in stereotactic radiosurgery (SRS): outcome prediction with brain metastasis (BM) - A systematic review.** *Journal of clinical neuroscience : official journal of the Neurosurgical Society of Australasia*  
Desai, S. P., Hori, Y. S., Kattaa, A. H., Izhar, M., Lam, F. C., Abu Reesh, D., Tayag, A., Ustrzynski, L., Emrich, S. C., Gu, X., Park, D. J., Chang, S. D.  
2026; 145: 111854
- **Radiosurgical management of pathology-proven low-grade glioma: a systematic review across the pre- and post-molecular classification era.** *Journal of neurosurgical sciences*  
Mizutani, Y., Hori, Y. S., Harary, P. M., Annagiri, S., Jain, R., Liu, J., Izhar, M., Reesh, D. A., Lam, F. C., Emrich, S. C., Ustrzynski, L., Tayag, A., Park, et al  
2025

- **Efficacy and Safety of CyberKnife Stereotactic Radiosurgery for Occipital Condyle Metastasis** *NEUROSURGERY PRACTICE*  
Park, D. J., Voruganti, H., Annagiri, S., Shaghaghian, E., Hori, Y. S., Persad, A. R., Yoo, K. H., Abu-Reesh, D., Lam, F. C., Tayag, A., Ustrzynski, L., Emrich, S. C., Han, et al  
2025; 6 (4)
- **Efficacy and Safety of CyberKnife Stereotactic Radiosurgery for Occipital Condyle Metastasis.** *Neurosurgery practice*  
Park, D. J., Voruganti, H., Annagiri, S., Shaghaghian, E., Hori, Y. S., Persad, A. R., Yoo, K. H., Abu-Reesh, D., Lam, F. C., Tayag, A., Ustrzynski, L., Emrich, S. C., Han, et al  
2025; 6 (4): e000169
- **Treatment outcomes of cerebral arteriovenous malformations in patients with Hereditary hemorrhagic Telangiectasia: A case series from a Single-Center experience.** *Journal of clinical neuroscience : official journal of the Neurosurgical Society of Australasia*  
Izhar, M., Al Gharyani, M. F., Hori, Y. S., Kattaa, A. H., Lam, F. C., Kalra, N., Zagzoog, N., Tayag, A., Ustrzynski, L., Emrich, S. C., Park, D. J., Chang, S. D.  
2025; 143: 111750
- **A GENOME-WIDE IN VIVO CRISPR ACTIVATION SCREEN IDENTIFIES BACE1 AS A THERAPEUTIC VULNERABILITY OF LUNG CANCER BRAIN METASTASIS**  
Chafe, S., Zhai, K., Aghaei, N., Miletic, P., Huang, Z., Brown, K., Mobilio, D., Young, D., Suk, Y., Grewal, S., Mckenna, D., Alizada, Z., Kieliszek, et al  
OXFORD UNIV PRESS INC.2025: v26-v27
- **Treatment outcomes for hypoglossal schwannomas: insights from a single-institution experience and literature review.** *Journal of neurosurgery*  
Kattaa, A. H., Park, D. J., Persad, A. R., Hori, Y. S., Kassu, R. A., Nasta, S. R., Voruganti, H., Akhavan-Sigari, A., Lam, F. C., AbuReesh, D., Han, S. S., Emrich, S. C., Ustrzynski, et al  
2025: 1-11
- **Characterizing the Microenvironment of Cerebral Arteriovenous Malformations to Test Novel Treatment Modalities.** *Brain sciences*  
Wazhi, K., Lam, F. C., Guru, S., Hori, Y. S., AbuReesh, D., Shoemaker, L., Park, D. J., Chang, S. D.  
2025; 15 (11)
- **Stereotactic radiosurgery for hepatitis C virus-related hepatocellular carcinoma brain metastasis: A retrospective analysis and systematic review** *WORLD NEUROSURGERY-X*  
Izhar, M., Hori, Y. S., Kattaa, A. H., Lam, F. C., Kalra, N., Zagzoog, N., Tayag, A., Ustrzynski, L., Emrich, S. C., Pollom, E. L., Soltys, S. G., Gephart, M., Park, et al  
2025; 28
- **Current State-of-the-Art Animal Models of Pediatric Brain Tumors.** *Brain sciences*  
Gudavalli, T., Lam, F. C., Guru, S., AbuReesh, D., Hori, Y. S., Hiniker, S., Park, D. J., Chang, S. D.  
2025; 15 (10)
- **Stereotactic radiosurgery for brain metastases from non-uterine Leiomyosarcoma: A retrospective case series** *WORLD NEUROSURGERY-X*  
Cardona, J. J., Hori, Y. S., Kattaa, A. H., Harary, P. M., Lam, F. C., Abu-Reesh, D., Ustrzynski, L., Emrich, S. C., Tayag, A., Hayden-Gephart, M., Park, D. J., Chang, S. D.  
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- **Repeat stereotactic radiosurgery for treatment of brain metastases locally recurrent following initial radiosurgery.** *Journal of neuro-oncology*  
Hall, J. C., Goel, K., Lozko, Y., Chang, S. D., Park, D. J., Hori, Y. S., Lam, F. C., AbuReesh, D., Jackson, S., Li, G., Hayden-Gephart, M., Kaneko, T., Nagpal, et al  
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- **Stereotactic radiosurgery for brain metastases from extra-renal clear cell carcinoma: A series of four patients and review of the literature.** *Journal of clinical neuroscience : official journal of the Neurosurgical Society of Australasia*  
Harary, P. M., Hori, Y. S., Kattaa, A. H., Lam, F. C., Abu-Reesh, D., Emrich, S. C., Tayag, A., Ustrzynski, L., Pollom, E. L., Park, D. J., Gephart, M. H., Chang, S. D.  
2025; 141: 111602
- **Stereotactic Radiosurgery for Recurrent Meningioma: A Systematic Review of Risk Factors and Management Approaches.** *Cancers*  
Mizutani, Y., Hori, Y. S., Harary, P. M., Lam, F. C., Reesh, D. A., Emrich, S. C., Ustrzynski, L., Tayag, A., Park, D. J., Chang, S. D.  
2025; 17 (17)

- **Stereotactic radiosurgery for intracranial and spinal adenoid cystic carcinoma: systematic review and illustrative case presentation.** *Journal of neuro-oncology*  
Cardona, J. J., Park, D. J., Al Gharyani, M. F., Wang, J. Y., Hori, Y. S., Lam, F. C., Abu-Reesh, D., Ustrzynski, L., Emrich, S. C., Tayag, A., Li, G., Gephart, M. H., Chang, et al  
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- **A genome-wide in vivo CRISPR activation screen identifies BACE1 as a therapeutic vulnerability of lung cancer brain metastasis.** *Science translational medicine*  
Chafe, S. C., Zhai, K., Aghaei, N., Miletic, P., Huang, Z., Brown, K. R., Mobilio, D., Young, D., Suk, Y., Grewal, S., McKenna, D., Alizada, Z., Kieliszek, et al  
2025; 17 (805): eadu2459
- **Radiosensitizers in Cancer Therapy: A Global Bibliometric Analysis.** *bioRxiv : the preprint server for biology*  
Annagiri, S., Harary, P. M., Hori, Y. S., Lam, F. C., AbuReesh, D., Tayag, A., Ustrzynski, L., Emrich, S. C., Chang, S. D., Park, D. J.  
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- **Understanding the Radiobiology of Central Nervous System Diseases in the Golden Age of Radiosurgery-Does It Matter?** *Brain sciences*  
Lam, F. C., Byun, J., Guru, S., AbuReesh, D., Hori, Y. S., Rahimy, E., Pollom, E. L., Soltys, S., Park, D. J., Chang, S. D.  
2025; 15 (6)
- **Radiosurgical management of SDHx-related paraganglioma.** *Journal of clinical neuroscience : official journal of the Neurosurgical Society of Australasia*  
Harary, P. M., Hori, Y. S., Zamarud, A., Lam, F. C., Abu-Reesh, D., Emrich, S. C., Tayag, A., Ustrzynski, L., Pollom, E. L., Soltys, S. G., Li, G., Park, D. J., Chang, et al  
2025; 138: 111387
- **Integrated management of metastatic spinal tumors: current status and future directions.** *Medical oncology (Northwood, London, England)*  
Kim, M. J., Marianayagam, N. J., Chandra, A., Ranalli, C., Schonfeld, E., Avila-Madrigal, J. P., Flusche, A. M., Schoeffler, K., Alomari, S., Rao, N. B., Yoo, K., Lam, F. C., Park, et al  
2025; 42 (6): 210
- **Efficacy and Safety of Donut-Shaped Circumferential Spine CyberKnife Stereotactic Body Radiotherapy for Metastatic Spine Disease.** *Neurosurgery*  
Park, D. J., Lee, I., Annagiri, S., Chou, K. N., Zamarud, A., Akhavan-Sigari, A., Hori, Y. S., Persad, A. R., Abu-Reesh, D., Lam, F. C., Tayag, A., Ustrzynski, L., Emrich, et al  
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- **Isolated unilateral hypoglossal nerve palsy due to an atlanto-occipital juxta-articular cyst: illustrative case.** *Journal of neurosurgery. Case lessons*  
Nasta, S. R., Persad, A. R., Hori, Y. S., Lam, F. C., Abu-Reesh, D., Tayag, A., Ustrzynski, L., Emrich, S. C., Dillon, W. P., El-Sayed, I. H., Chang, S. D., Park, D. J.  
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- **Stereotactic Radiosurgery and Surgical Resection for Jugular Foramen Schwannomas: A Retrospective Comparative Study of Outcomes.** *Operative neurosurgery (Hagerstown, Md.)*  
Akhavan-Sigari, A., Park, D. J., Kattaa, A. H., Hori, Y. S., Persad, A. R., AbuReesh, D., Lam, F. C., Emrich, S. C., Ustrzynski, L., Tayag, A., Chang, S. D.  
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- **Use of Carbon Fiber Implants to Improve the Safety and Efficacy of Radiation Therapy for Spine Tumor Patients.** *Brain sciences*  
Lam, F. C., Guru, S., AbuReesh, D., Hori, Y. S., Chuang, C., Liu, L., Wang, L., Gu, X., Szalkowski, G. A., Wang, Z., Wohlers, C., Tayag, A., Emrich, et al  
2025; 15 (2)
- **Coexisting sellar Rathke cleft cyst and planum sphenoidale meningioma: illustrative case.** *Journal of neurosurgery. Case lessons*  
Akhavan-Sigari, A., Park, D. J., Harary, P. M., Chivakula, M., Theodoros, D., Bharani, K. L., Hori, Y. S., Persad, A. R., Lam, F. C., Emrich, S. C., Ustrzynski, L., Tayag, A., Chang, et al  
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- **"Beyond the Knife"-Applying Theranostic Technologies to Enhance Outcomes in Neurosurgical Oncology.** *Brain sciences*  
Guru, S., Lam, F. C., Akhavan-Sigari, A., Hori, Y. S., AbuReesh, D., Tayag, A., Emrich, S. C., Ustrzynski, L., Park, D. J., Chang, S. D.

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- **"Beyond the Knife"-Applying Theranostic Technologies to Enhance Outcomes in Neurosurgical Oncology** *BRAIN SCIENCES*

Guru, S., Lam, F. C., Akhavan-Sigari, A., Hori, Y. S., Abureesh, D., Tayag, A., Emrich, S. C., Ustrzynski, L., Park, D. J., Chang, S. D.

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- **BRD4 prevents the accumulation of R-loops and protects against transcription-replication collision events and DNA damage** *NATURE COMMUNICATIONS*

Lam, F. C., Kong, Y., Huang, Q., Vu Han, T., Maffa, A. D., Kasper, E. M., Yaffe, M. B.

2020; 11 (1): 4083