



Michael Leong

- Clinical Associate Professor, Anesthesiology, Perioperative and Pain Medicine
- Clinical Associate Professor (By courtesy), Neurosurgery
- 📄 Curriculum Vitae available Online

CLINICAL OFFICES

- **Pain Management Clinic**

450 Broadway St

Pavilion A 1st Fl MC 5340

Redwood City, CA 94063

Tel (650) 723-6238

Fax (650) 721-3414

ACADEMIC CONTACT INFORMATION

- **Administrative Contact**

Alyssa Martinez

Email amart10@stanford.edu

Tel 650-721-7286

Bio

BIO

Michael S. Leong, MD, is a specialist in pain medicine with clinical foci in radiculopathy; spinal, abdominal, and cancer pain; postherpetic neuralgia; and workers compensation cases. He received his medical degree from Georgetown University in Washington, DC, and completed his residency in anesthesiology at University of California, Davis and at Stanford University, where he also completed his fellowship in pain medicine. He is board certified by the American Board of Anesthesiology. Dr. Leong is currently a Clinical Associate Professor of Anesthesiology and Pain Medicine at Stanford University.

CLINICAL FOCUS

- Anesthesia
- Pain Management
- Radiculopathy
- Spinal Pain
- Neuromodulation
- Spinal Cord Stimulation
- Intrathecal (Intraspinal) Analgesia
- Cancer Pain

ACADEMIC APPOINTMENTS

- Clinical Associate Professor, Anesthesiology, Perioperative and Pain Medicine
- Clinical Associate Professor (By courtesy), Neurosurgery

ADMINISTRATIVE APPOINTMENTS

- Clinic Chief, Pain Management Center, (2010-2015)

PROFESSIONAL EDUCATION

- Fellowship: Stanford University Pain Management Fellowship (1998) CA

- Residency: Stanford University Anesthesiology Residency (1997) CA
- Residency: UC Davis Anesthesiology Residency (1995) CA
- Internship: George Washington University Medical Center Internal Medicine Training (1994) DC
- Medical Education: Georgetown University School of Medicine Registrar (1993) DC
- Board Certification: Pain Medicine, American Board of Anesthesiology (2000)
- Board Certification: Anesthesia, American Board of Anesthesiology (1999)

LINKS

- Pain Management Center: <http://paincenter.stanford.edu/>

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

- Intrathecal / Intraspinal Analgesics
- Ziconotide (Prialt)
- Resiniferatoxin
- Industry-supported clinical trials

Publications

PUBLICATIONS

- **Research designs for proof-of-concept chronic pain clinical trials: IMPACT recommendations.** *Pain*
Gewandter, J. S., Dworkin, R. H., Turk, D. C., McDermott, M. P., Baron, R., Gastonguay, M. R., Gilron, I., Katz, N. P., Mehta, C., Raja, S. N., Senn, S., Taylor, C., Cowan, et al
2014; 155 (9): 1683-1695
- **The Appropriate Use of Neurostimulation: Avoidance and Treatment of Complications of Neurostimulation Therapies for the Treatment of Chronic Pain** *NEUROMODULATION*
Deer, T. R., Mekhail, N., Provenzano, D., Pope, J., Krames, E., Thomson, S., Raso, L., Burton, A., DeAndres, J., Buchser, E., Buvanendran, A., Liem, L., Kumar, et al
2014; 17 (6): 571-597
- **CT-Guided Percutaneous Infrazygomatic Radiofrequency Neurolysis Through Foramen Rotundum to Treat V2 Trigeminal Neuralgia** *PAIN MEDICINE*
Huang, B., Yao, M., Feng, Z., Guo, J., Zereshki, A., Leong, M., Qian, X.
2014; 15 (8): 1418-1428
- **The Appropriate Use of Neurostimulation: New and Evolving Neurostimulation Therapies and Applicable Treatment for Chronic Pain and Selected Disease States** *NEUROMODULATION*
Deer, T. R., Krames, E., Mekhail, N., Pope, J., Leong, M., Stanton-Hicks, M., Golovac, S., Kapural, L., Alo, K., Anderson, J., Foreman, R. D., Caraway, D., Narouze, et al
2014; 17 (6): 599-615
- **The Appropriate Use of Neurostimulation of the Spinal Cord and Peripheral Nervous System for the Treatment of Chronic Pain and Ischemic Diseases: The Neuromodulation Appropriateness Consensus Committee** *NEUROMODULATION*
Deer, T. R., Mekhail, N., Provenzano, D., Pope, J., Krames, E., Leong, M., Levy, R. M., Abejon, D., Buchser, E., Burton, A., Buvanendran, A., Candido, K., Caraway, et al
2014; 17 (6): 515-550
- **Acute Cardiovascular Toxicity of Low-Dose Intrathecal Ziconotide.** *Pain medicine (Malden, Mass.)*
Heifets, B. D., Smith, S. M., Leong, M. S.
2013
- **Polyanalgesic Consensus Conference-2012: Recommendations on Trialing for Intrathecal (Intraspinal) Drug Delivery: Report of an Interdisciplinary Expert Panel** *NEUROMODULATION*

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- Deer, T. R., Prager, J., Levy, R., Burton, A., Buchser, E., Caraway, D., Cousins, M., De Andres, J., Diwan, S., Erdek, M., Grigsby, E., Huntoon, M., Jacobs, et al
2012; 15 (5): 420-435
- **Polyanalgesic Consensus Conference-2012: Consensus on Diagnosis, Detection, and Treatment of Catheter-Tip Granulomas (Inflammatory Masses)** *NEUROMODULATION*
Deer, T. R., Prager, J., Levy, R., Rathmell, J., Buchser, E., Burton, A., Caraway, D., Cousins, M., De Andres, J., Diwan, S., Erdek, M., Grigsby, E., Huntoon, et al
2012; 15 (5): 483-496
 - **Polyanalgesic Consensus Conference 2012: Recommendations for the Management of Pain by Intrathecal (Intraspinal) Drug Delivery: Report of an Interdisciplinary Expert Panel** *NEUROMODULATION*
Deer, T. R., Prager, J., Levy, R., Rathmell, J., Buchser, E., Burton, A., Caraway, D., Cousins, M., De Andres, J., Diwan, S., Erdek, M., Grigsby, E., Huntoon, et al
2012; 15 (5): 436-466
 - **Polyanalgesic Consensus Conference-2012: Recommendations to Reduce Morbidity and Mortality in Intrathecal Drug Delivery in the Treatment of Chronic Pain** *NEUROMODULATION*
Deer, T. R., Levy, R., Prager, J., Buchser, E., Burton, A., Caraway, D., Cousins, M., De Andres, J., Diwan, S., Erdek, M., Grigsby, E., Huntoon, M., Jacobs, et al
2012; 15 (5): 467-482
 - **Intrathecal Ziconotide for Complex Regional Pain Syndrome: Seven Case Reports** *PAIN PRACTICE*
Kapural, L., Lokey, K., Leong, M. S., Fiekowsky, S., Stanton-Hicks, M., Sapienza-Crawford, A. J., Webster, L. R.
2009; 9 (4): 296-303
 - **Phase II, open-label, multicenter study of combined intrathecal morphine and ziconotide: Addition of ziconotide in patients receiving intrathecal morphine for severe chronic pain** *PAIN MEDICINE*
Wallace, M. S., Kosek, P. S., Staats, P., Fisher, R., Schultz, D. M., Leong, M.
2008; 9 (3): 271-281
 - **A novel needle-free powder lidocaine delivery system for rapid local analgesia** *JOURNAL OF PEDIATRICS*
Zempsky, W. T., Robbins, B., Richards, P. T., Leong, M. S., Schechter, N. L.
2008; 152 (3): 405-411
 - **Dose-finding, safety, and tolerability study of botulinum toxin type B for the treatment of hyperfunctional glabellar lines** *DERMATOLOGIC SURGERY*
Carruthers, A., Carruthers, J., Flynn, T. C., Leong, M. S.
2007; 33: S60-S68
 - **A randomized, double-blind, placebo-controlled study of intrathecal ziconotide in adults with severe chronic pain** *JOURNAL OF PAIN AND SYMPTOM MANAGEMENT*
Rauck, R. L., Wallace, M. S., Leong, M. S., Minehart, M., Webster, L. R., Charapata, S. G., Abraham, J. E., Buffington, D. E., Ellis, D., Kartzinel, R.
2006; 31 (5): 393-406
 - **Pump battery assessment: Cold, old, or dead!** *NEUROMODULATION*
Leong, M. S., Carpentier, B. W.
2001; 4 (3): 117-119