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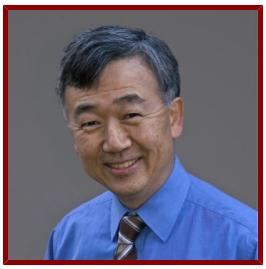

Yuen So, MD, PhD

Professor of Neurology and Neurological Sciences (Adult Neurology), Emeritus

CLINICAL OFFICE (PRIMARY)

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ACADEMIC CONTACT INFORMATION

- **Alternate Contact**

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Bio

CLINICAL FOCUS

- Neuropathy
- Myasthenia Gravis
- Amyotrophic Lateral Sclerosis
- Electromyography
- Myositis
- Muscular Dystrophies
- Neurology

ACADEMIC APPOINTMENTS

- Professor Emeritus-Hourly, Adult Neurology
- Member, Bio-X

ADMINISTRATIVE APPOINTMENTS

- Vice Chair, Clinical Services, Department of Neurology, (2015-2024)
- Chief, Neurology Clinics, Department of Neurology, (1999-2024)
- Director, Neurology Residency, Department of Neurology, (1999-2010)

HONORS AND AWARDS

- President, American Association of Neuromuscular and Electrodiagnostic Medicine (Oct 2019 - Oct 2020)
- 2018 AANEM Distinguished Physician Award, American Association of Neuromuscular and Electrodiagnostic Medicine (2018)
- AAMC Humanism in Medicine Award, Association of American Medical Colleges (2005)
- L. Forno Award for Teaching Excellence, Stanford Department of Neurology (1999)
- Most Outstanding Teacher, Oregon Health Sciences University, Department of Neurology (1998)

- Elected member, American Neurological Association (1997)
- Golden Upgoing Toe Award for Most Outstanding Teacher, UCSF Department of Neurology (1993)

BOARDS, ADVISORY COMMITTEES, PROFESSIONAL ORGANIZATIONS

- Chair, Practice Issues Review Panel, American Association of Neuromuscular and Electrodiagnostic Medicine (2007 - 2014)
- Board of Directors, American Association of Neuromuscular and Electrodiagnostic Medicine (2015 - 2021)
- Co-Chair, Therapeutics and Technology Assessment Subcommittee, American Academy of Neurology (2003 - 2009)

PROFESSIONAL EDUCATION

- Medical Education: Yale School Of Medicine (1982) CT
- Board Certification: Neuromuscular Medicine, American Board of Psychiatry and Neurology (2011)
- Internship: UCSF Medical Center (1984) CA
- Fellowship: UCSF Medical Center (1988) CA
- Residency: UCSF Medical Center (1987) CA
- Board Certification: Neurology, American Board of Psychiatry and Neurology (1989)
- BS, Northwestern University , Electrical Engineering (1974)
- PhD, Rockefeller University , Neurophysiology (1979)
- MD, Yale University , Medicine (1983)

LINKS

- Get a Second Opinion: https://stanfordhealthcare.org/second-opinion/overview.html

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

Research in the diagnosis, pathophysiology and treatment of peripheral neuropathy, myasthenia gravis, motor neuron diseases including ALS and SMA, nerve injuries and muscle diseases. Application of clinical neurophysiological methods to neurological diagnosis. Development of evidence-based medicine pertaining to the practice of neurology.

CLINICAL TRIALS

- A Clinical Study to Assess Two Doses of GSK2402968 in Subjects With Duchenne Muscular Dystrophy (DMD), Not Recruiting
- A Study to Explore the Safety and Tolerability of Acthar in Patients With Amyotrophic Lateral Sclerosis, Not Recruiting
- Humanitarian Device Exemption Post-Approval Study of NeuRx Diaphragm Pacing System for Amyotrophic Lateral Sclerosis, Not Recruiting
- Pharmacodynamic Study of CK-2017357 in Patients With Generalized Myasthenia Gravis, Not Recruiting
- Drisapersen Duchenne Muscular Dystrophy (DMD) Treatment Protocol, Not Specified

Publications

PUBLICATIONS

- **Shared burden of ultra-rare genetic variants across a spectrum of motor neuron diseases.** *Translational neurodegeneration*
  Wu, G., Chen, W., Wuu, J., Jain, A., Myers, J., Cordts, I., Rampersaud, E., Heckmann, J. M., Nel, M., Granit, V., Statland, J., Swenson, A., Ravits, et al
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- **PET Imaging of Neuroinflammation in ALS Patients Using ¹⁸F-OP-801, a Novel Nanoimaging Agent**
  Maricich, S. M., Korn, R., Lomen-Hoerth, C., So, Y., Oguno, B., Cleland, J. L., Shah, V., Moradi, F.

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- **Machine learning suggests polygenic risk for cognitive dysfunction in amyotrophic lateral sclerosis** *EMBO MOLECULAR MEDICINE*
  Placek, K., Benatar, M., Wuu, J., Rampersaud, E., Hennessy, L., Van Deerlin, V. M., Grossman, M., Irwin, D. J., Elman, L., McCluskey, L., Quinn, C., Granit, V., Statland, et al
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- **Machine learning suggests polygenic risk for cognitive dysfunction in amyotrophic lateral sclerosis** *EMBO MOLECULAR MEDICINE*
  Placek, K., Benatar, M., Wuu, J., Rampersaud, E., Hennessy, L., Van Deerlin, V. M., Grossman, M., Irwin, D. J., Elman, L., McCluskey, L., Quinn, C., Granit, V., Statland, et al
  2021; 13 (1): e12595

- **Post-intervention status in patients with refractory myasthenia gravis treated with eculizumab during REGAIN and its open-label extension.** *Neurology*
  Mantegazza, R., Wolfe, G. I., Muppidi, S., Wiendl, H., Fujita, K. P., O'Brien, F. L., Booth, H. D., Howard, J. F., REGAIN Study Group
  2020

- **Machine learning suggests polygenic risk for cognitive dysfunction in amyotrophic lateral sclerosis.** *EMBO molecular medicine*
  Placek, K. n., Benatar, M. n., Wuu, J. n., Rampersaud, E. n., Hennessy, L. n., Van Deerlin, V. M., Grossman, M. n., Irwin, D. J., Elman, L. n., McCluskey, L. n., Quinn, C. n., Granit, V. n., Statland, et al
  2020: e12595

- **A phase III trial of tirasemtiv as a potential treatment for amyotrophic lateral sclerosis** *AMYOTROPHIC LATERAL SCLEROSIS AND FRONTOTEMPORAL DEGENERATION*
  Shefner, J. M., Cudkowicz, M. E., Hardiman, O., Cockroft, B. M., Lee, J. H., Malik, F., Meng, L., Rudnicki, S. A., Wolff, A. A., Andrews, J. A., Van Damme, P., Korngut, L., Johnston, et al
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- **Long-term safety and efficacy of eculizumab in generalized myasthenia gravis** *MUSCLE & NERVE*
  Muppidi, S., Utsugisawa, K., Benatar, M., Murai, H., Barohn, R. J., Illa, I., Jacob, S., Vissing, J., Burns, T. M., Kissel, J. T., Nowak, R. J., Andersen, H., Casasnovas, et al
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- **Long-term safety and efficacy of eculizumab in generalized myasthenia gravis.** *Muscle & nerve*
  Muppidi, S., Utsugisawa, K., Benatar, M., Murai, H., Barohn, R. J., Illa, I., Jacob, S., Vissing, J., Burns, T. M., Kissel, J. T., Nowak, R. J., Andersen, H., Casasnovas, et al
  2019

- **Hexane exposure and persistent peripheral neuropathy in automotive technicians.** *Neurotoxicology*
  Bates, M. N., Pope, K. n., So, Y. T., Liu, S. n., Eisen, E. A., Katharine Hammond, S. n.
  2019

- **Ambient geothermal hydrogen sulfide exposure and peripheral neuropathy.** *Neurotoxicology*
  Pope, K., So, Y. T., Crane, J., Bates, M. N.
  2017; 60: 10-15

- **Electrodiagnostic reference values for upper and lower limb nerve conduction studies in adult populations.** *Muscle & nerve*
  Chen, S., Andary, M., Buschbacher, R., Del Toro, D., Smith, B., So, Y., Zimmermann, K., Dillingham, T. R.
  2016; 54 (3): 371-377

- **Establishing high-quality reference values for nerve conduction studies: A report from the normative data task force of the American Association Of Neuromuscular & Electrodiagnostic Medicine.** *Muscle & nerve*
  Dillingham, T., Chen, S., Andary, M., Buschbacher, R., Del Toro, D., Smith, B., Zimmermann, K., So, Y.
  2016; 54 (3): 366-370

- **Practice guideline update summary: Botulinum neurotoxin for the treatment of blepharospasm, cervical dystonia, adult spasticity, and headache: Report of the Guideline Development Subcommittee of the American Academy of Neurology.** *Neurology*
  Simpson, D. M., Hallett, M., Ashman, E. J., Comella, C. L., Green, M. W., Gronseth, G. S., Armstrong, M. J., Gloss, D., Potrebic, S., Jankovic, J., Karp, B. P., Naumann, M., So, et al
  2016; 86 (19): 1818-1826

- **Amifampridine phosphate (Firdapse(®)) is effective and safe in a phase 3 clinical trial in LEMS.** *Muscle & nerve*
  Oh, S. J., Shcherbakova, N., Kostera-Pruszczyk, A., Alsharabati, M., Dimachkie, M., Blanco, J. M., Brannagan, T., Lavrnic, D., Shieh, P. B., Vial, C., Meisel, A., Komoly, S., Schoser, et al
  2016; 53 (5): 717-725

- **EDITORIAL BY CONCERNED PHYSICIANS: UNINTENDED EFFECT OF THE ORPHAN DRUG ACT ON THE POTENTIAL COST OF 3,4-DIAMINOPYRIDINE** *MUSCLE & NERVE*
  Burns, T. M., Smith, G. A., Allen, J. A., Amato, A. A., Arnold, W., Barohn, R., Benatar, M., Bird, S. J., Bromberg, M., Chahin, N., Ciafaloni, E., Cohen, J. A., Corse, et al
  2016; 53 (2): 165–68

- **Predictors of CNS injury as measured by proton magnetic resonance spectroscopy in the setting of chronic HIV infection and CART.** *Journal of neurovirology*
  Harezlak, J., Cohen, R., Gongvatana, A., Taylor, M., Buchthal, S., Schifitto, G., Zhong, J., Daar, E. S., Alger, J. R., Brown, M., Singer, E. J., Campbell, T. B., McMahon, et al
  2014; 20 (3): 294-303

- **Progressive cerebral injury in the setting of chronic HIV infection and antiretroviral therapy** *JOURNAL OF NEUROVIROLOGY*
  Gongvatana, A., Harezlak, J., Buchthal, S., Daar, E., Schifitto, G., Campbell, T., Taylor, M., Singer, E., Algers, J., Zhong, J., Brown, M., McMahon, D., So, et al
  2013; 19 (3): 209-218

- **Effects of noninvasive ventilation on sleep outcomes in amyotrophic lateral sclerosis.** *Journal of clinical sleep medicine*
  Katzberg, H. D., Selegiman, A., Guion, L., Yuan, N., Cho, S. C., Katz, J. S., Miller, R. G., So, Y. T.
  2013; 9 (4): 345-351

- **Evidence-based guideline: IV immunoglobulin in the treatment of neuromuscular disorders: report of the Therapeutics and Technology Assessment Subcommittee of the American Academy of Neurology.** *Neurology*
  Li, H., Gao, X., Hong, Y., Patwa, H. S., Chaudhry, V., Rae-Grant, A. D., So, Y. T., Alto, P.
  2012; 79 (13): 1411-?

- **Cost Comparison between the Atraumatic and the Cutting Lumbar Puncture Needles**
  Tung, C., So, Y., Lansberg, M.
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- **Evidence-based guideline: Intravenous immunoglobulin in the treatment of neuromuscular disorders Report of the Therapeutics and Technology Assessment Subcommittee of the American Academy of Neurology** *NEUROLOGY*
  Patwa, H. S., Chaudhry, V., Katzberg, H., Rae-Grant, A. D., So, Y. T.
  2012; 78 (13): 1009-1015

- **Immune-mediated neuropathies.** *Continuum (Minneapolis, Minn.)*
  So, Y. T.
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- **New insights into small fiber neuropathy** *ANNALS OF NEUROLOGY*
  So, Y.
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- **Cost comparison between the atraumatic and cutting lumbar puncture needles** *NEUROLOGY*
  Tung, C. E., So, Y. T., Lansberg, M. G.
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- **ANALYSIS OF CONTINUOUS DIAPHRAGM ELECTROMYOGRAPHIC SIGNAL: RESULTS FROM A PATIENT WITH AMYOTROPHIC LATERAL SCLEROSIS** *MUSCLE & NERVE*
  Katzberg, H. D., Barros, D. F., Widrow, B., Cho, C. S., So, Y. T.
  2011; 43 (6): 801-806

- **Evidence-based guideline update: Plasmapheresis in neurologic disorders Report of the Therapeutics and Technology Assessment Subcommittee of the American Academy of Neurology** *NEUROLOGY*
  Cortese, I., Chaudhry, V., So, Y. T., Cantor, F., Cornblath, D. R., Rae-Grant, A.
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  Katzberg, H., Karamchandani, J., So, Y. T., Vogel, H., Wang, C. H.
  2010; 25 (11): 1382-1388
- **Chemotherapy-related polyneuropathy may deteriorate quality of life in patients with B-cell lymphoma** *QUALITY OF LIFE RESEARCH*
  Kim, B., Park, H., Roh, H. J., Jeong, D., Kim, B. S., Park, K., Cho, S. C., So, Y. T., Oh, S. Y., Kim, S. J.
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- **UTILITY OF ELECTRODIAGNOSTIC TESTING IN EVALUATING PATIENTS WITH LUMBOSACRAL RADICULOPATHY: AN EVIDENCE-BASED REVIEW** *MUSCLE & NERVE*
  Cho, S. C., Ferrante, M. A., Levin, K. H., Harmon, R. L., So, Y. T.
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- **Utility of the cutaneous silent period in patients with diabetes mellitus** *JOURNAL OF THE NEUROLOGICAL SCIENCES*
  Kim, B., Kim, N., Kim, S. G., Roh, H., Park, H., Park, M., Park, K., Cho, S. C., So, Y. T.
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  Cho, S. C., Katzberg, H. D., Rama, A., Kim, B., Roh, H., Park, J., Katz, J., So, Y. T.
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- **ASSESSMENT: BOTULINUM NEUROTOXIN FOR THE TREATMENT OF SPASTICITY (AN EVIDENCE-BASED REVIEW)** *NEUROLOGY*
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- **Assessment: botulinum neurotoxin for the treatment of spasticity (an evidence-based review).** *Neurology*
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  Cho, S., Katzberg, H., Kim, B., Roh, H., So, Y. T.
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  Kim, B., Cho, S., Roh, H., So, Y. T.
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- **Disorders of the Trigeminal System** *SEMINARS IN NEUROLOGY*
  Gonella, M. C., Fischbein, N. J., So, Y. T.
  2009; 29 (1): 36-44
- **American Association of Neuromuscular & Electrodiagnostic Medicine evidenced-based review: Use of surface electromyography in the diagnosis and study of neuromuscular disorders** *MUSCLE & NERVE*
  Meekins, G. D., So, Y., Quan, D.
  2008; 38 (4): 1219-1224
- **Assessment: Botulinum neurotoxin for the treatment of spasticity (an evidence-based review) - Report of the Therapeutics and Technology Assessment Subcommittee of the American Academy of Neurology** *NEUROLOGY*
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- **Assessment: Botulinum neurotoxin for the treatment of movement disorders (an evidence-based review) - Report of the Therapeutics and Technology Assessment Subcommittee of the American Academy of Neurology** *NEUROLOGY*
  Simpson, D. M., Blitzer, A., Brashear, A., Comella, C., Dubinsky, R., Hallett, M., Jankovic, J., Karp, B., Ludlow, C. L., Miyasaki, J. M., NAUMANN, M., So, Y.
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- **Assessment: Botulinum neurotoxin in the treatment of autonomic disorders and pain (an evidence-based review) - Report of the Therapeutics and Technology Assessment Subcommittee of the American Academy of Neurology** *NEUROLOGY*
  Naumann, M., So, Y., Argoff, C. E., Childers, M. K., Dykstra, D. D., Gronseth, G. S., Jabbari, B., Kaufmann, H. C., Schurch, B., Silberstein, S. D., Simpson, D. M.
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- **Rofecoxib in the acute treatment of migraine: A randomized controlled clinical trial** *HEADACHE*
  Saper, J., Dahlof, C., So, Y., Tfelt-Hansen, P., Malbecq, W., Loeys, T., Barraclough, E., Klipfel, M., Lines, C., VISSER, H., Reines, S., Yuen, E.
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- **Bilateral isolated phrenic neuropathy causing painless bilateral diaphragmatic paralysis** *NEUROLOGY*
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- **Sciatic neuropathy** *NEUROLOGIC CLINICS*
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