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## Atchar Sudhyadhom

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### Atchar Sudhyadhom, Ph.D.



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**Division of Physics**  
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### Professional Focus

Dr. Sudhyadhom's clinical concentration is in the area of highly focused therapies such as stereotactic radiosurgery (SRS), stereotactic body radiation therapy (SBRT), and high-dose rate brachytherapy (HDR) and he is currently part of the UCSF CyberKnife group. His research has focused on methods to improve the accuracy of these types of therapies through developments in image guidance methods and small field dosimetry.

## Education

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2014	University of California, San Francisco	Residency	Radiation Oncology
2012	University of Florida, FI	Post- Doctoral	Neurosurgery
2010	University of Florida, FI	PhD	Medical Physics
2005	University of Florida, FI	MSc	Medical Physics
2003	University of Florida, FI	BS	Physics and Chemistry

## Professional Experience

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2014-2016	UCSF	Clinical Instructor	Department of Radiation Oncology
2016-present	UCSF	Assistant Professor	Department of Radiation Oncology

## Awards & Honors

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2011 AAPM "Best in Physics" in Imaging

### Recent Significant Publications :

Sudhyadhom A, McGregor K, Okun MS, Foote KD, Trinastic J, Crosson B, Bova FJ. **Delineation of Motor and Somatosensory Thalamic Subregions Utilizing Probabilistic Diffusion Tractography and Electrophysiology**, J Magn Reson Imaging. (Accepted).

Sudhyadhom A, Okun MS, Foote KD, Rahman M, Bova FJ. **A Three-dimensional Deformable Brain Atlas for DBS Targeting. I. Methodology for Atlas Creation and Artifact Reduction**, Open Neuroimag J. (Accepted)

McGregor K, Carpenter H, Kleim E, Sudhyadhom A, White KD, Butler AJ, Kleim, JA, Crosson B. **Motor Map Reliability and Aging: A TMS/fMRI Stud?**, Exp Brain Res. 2012 May;219(1):97-106.

McGregor K, Zlata Z, Kleim E, Sudhyadhom A, Bauer A, Phan S, Seeds L, Ford A, Manini A, White KD, Kleim J, Crosson B. **Physical Activity and Neural Correlates of Aging: A Combined TMS/fMRI Study**, Behav Brain Res. 2011 Sept 12.

Ullman M, Vedam-Mai V, Krock N, Sudhyadhom A, Foote KD, Yachnis AT, Merritt S, Resnick AS, Zeilman P, Okun MS. **A pilot study of human brain tissue post-magnetic resonance imaging: Information from the National Deep Brain Stimulation Brain Tissue Network (DBS-BTN)**, Neuroimage. 2010 Sep 19.

Haq IU, Foote KD, Goodman WK, Ricciuti N, Ward H, Sudhyadhom A, Jacobson CE, Siddiqui MS, Okun MS. **A case of mania following deep brain stimulation for obsessive compulsive disorder**, Stereotact Funct Neurosurg. 2010 88(5):322-8.

Haq IU, Foote KD, Goodman WG, Wu SS, Sudhyadhom A, Ricciuti N, Siddiqui MS, Bowers D, Jacobson CE, Ward H, Okun MS. **Smile and laughter induction and intraoperative predictors of response to deep brain stimulation for obsessive-compulsive disorder**, Neuroimage. 2010 Mar 10.

Sudhyadhom A, Haq IU, Foote KD, Okun MS, Bova FJ. **A high resolution and high contrast MRI for differentiation of subcortical structures for DBS targeting: the Fast Gray Matter Acquisition T1 Inversion Recovery (FGATIR)**, Neuroimage. 2009 Aug;47 Suppl 2:T44-52.

Drago V, Foster PS, Okun MS, Cosentino FI, Conigliaro R, Haq I, Sudhyadhom A, Skidmore FM, Heilman KM. **Turning off artistic ability: the influence of left DBS in art production**, J Neurol Sci. 2009 Jun 15;281(1-2):116-21.

Drago V, Foster PS, Okun MS, Haq I, Sudhyadhom A, Skidmore FM, Heilman KM. **Artistic creativity and DBS: a case report**, J Neurol Sci. 2009 Jan 15;276(1-2):138-42.

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