

# Stanford

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## Sonia Partap

- Clinical Associate Professor, Neurology & Neurological Sciences
- Clinical Associate Professor, Pediatrics - Operations

### CLINICAL OFFICES

- **Child Neurology**

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### ACADEMIC CONTACT INFORMATION

- **Administrative Contact**

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### Bio

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#### CLINICAL FOCUS

- Neurology - Child Neurology
- Pediatric Neuro-Oncology

#### ACADEMIC APPOINTMENTS

- Clinical Associate Professor, Neurology & Neurological Sciences
- Clinical Associate Professor, Pediatrics - Operations
- Member, Maternal & Child Health Research Institute (MCHRI)

#### ADMINISTRATIVE APPOINTMENTS

- Treasurer, Brain Tumor Epidemiology Consortium, (2012-2014)
- Member, Executive Committee, Section of Neurology, American Academy of Pediatrics, (2012- present)
- Pediatric Neuro-Oncology Fellowship Director, Stanford, (2012- present)

#### PROFESSIONAL EDUCATION

- Residency: Childrens Hospital and Regional Medical Center Fellowships (2006) WA
- Medical Education: University of Missouri Kansas City School of Medicine Registrar (2000) MO
- Board Certification: Neuro-Oncology, United Council for Neurologic Subspecialties (2011)
- Board Certification: Neurology - Child Neurology, American Board of Psychiatry and Neurology (2007)
- Board Certification: Pediatrics, American Board of Pediatrics (2007)
- Residency: Brown University Hospitals (2002) RI
- Fellowship:, Packard Children's & Stanford Hospital , Neuro-Oncology (2007)
- Masters:, Stanford University , Epidemiology (2009)

#### LINKS

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

## Research & Scholarship

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### CURRENT RESEARCH AND SCHOLARLY INTERESTS

My research interests involve the epidemiology, treatment and diagnosis of pediatric and young adult brain tumors. I am also interested in long-term neurologic effects and designing clinical trials to treat brain and spinal cord tumors.

### CLINICAL TRIALS

- A Clinical and Molecular Risk-Directed Therapy for Newly Diagnosed Medulloblastoma, Recruiting
- A Study of Pomalidomide (CC-4047) Monotherapy for Children and Young Adults With Recurrent or Progressive Primary Brain Tumors, Recruiting
- Adult Study: ABT-414 Alone or ABT-414 Plus Temozolomide vs. Lomustine or Temozolomide for Recurrent Glioblastoma Pediatric Study: Evaluation of ABT-414 in Children With High Grade Gliomas (INTELLANCE 2), Recruiting
- Pembrolizumab in Treating Younger Patients With Recurrent, Progressive, or Refractory High-Grade Gliomas, Diffuse Intrinsic Pontine Gliomas, Hypermutated Brain Tumors, Ependymoma or Medulloblastoma, Recruiting
- Phase 2 Study of Alisertib Therapy for Rhabdoid Tumors, Recruiting
- Selumetinib in Treating Young Patients With Recurrent or Refractory Low Grade Glioma, Recruiting
- Trial of Panobinostat in Children With Diffuse Intrinsic Pontine Glioma, Recruiting
- An Open-label Safety and Tolerability Study of Nusinersen (ISIS 396443) in Participants With Spinal Muscular Atrophy Who Previously Participated in ISIS 396443-CS1 (NCT01494701), Not Recruiting
- DNA Analysis of Tumor Tissue Samples From Patients With Diffuse Brain Stem Glioma, Not Recruiting
- Everolimus for Children With Recurrent or Progressive Ependymoma, Not Recruiting
- Palbociclib Isethionate in Treating Younger Patients With Recurrent, Progressive, or Refractory Central Nervous System Tumors, Not Recruiting

## Teaching

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### GRADUATE AND FELLOWSHIP PROGRAM AFFILIATIONS

- Epidemiology (Masters Program)
- Pediatric Hem/Onc (Fellowship Program)

## Publications

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### PUBLICATIONS

- **ACR Appropriateness Criteria Sinusitis-Child.** *Journal of the American College of Radiology : JACR*  
Expert Panel on Pediatric Imaging:, Tekes, A., Palasis, S., Durand, D. J., Pruthi, S., Booth, T. N., Desai, N. K., Jones, J. Y., Kadom, N., Lam, H. F., Milla, S. S., Mirsky, D. M., Partap, S., et al  
2018; 15 (11S): S403–S412
- **A phase 1/2 dose-finding, safety, and activity study of cabazitaxel in pediatric patients with refractory solid tumors including tumors of the central nervous system** *PEDIATRIC BLOOD & CANCER*  
Manley, P. E., Trippett, T., Smith, A. A., Macy, M. E., Leary, S. S., Boklan, J., Cohen, K. J., Goldman, S., Kilburn, L. B., Dhall, G., Devin, J., Herzog, C. E., Partap, et al  
2018; 65 (9): e27217
- **Cerebrospinal fluid vasopressin and symptom severity in children with autism.** *Annals of neurology*  
Oztan, O., Garner, J. P., Partap, S., Sherr, E. H., Hardan, A. Y., Farmer, C., Thurm, A., Swedo, S. E., Parker, K. J.  
2018
- **THE MOLECULAR AND CLINICAL LANDSCAPE OF INFANT MEDULLOBLASTOMA (IMB): RESULTS AND MOLECULAR ANALYSIS FROM A PROSPECTIVE, MULTICENTER PHASE II TRIAL (SJYC07)**  
Robinson, G. W., Rudneva, V. A., Buchhalter, I., Billups, C. A., Waszak, S. M., Smith, K., Bowers, D. C., Bendel, A., Fisher, P., Partap, S., Crawford, J., Hassall, T., Indelicato, et al

OXFORD UNIV PRESS INC.2018: 126–27

- **Risk-adapted therapy for young children with medulloblastoma (SJYC07): therapeutic and molecular outcomes from a multicentre, phase 2 trial** *LANCET ONCOLOGY*  
Robinson, G. W., Rudneva, V. A., Buchhalter, I., Billups, C. A., Waszak, S. M., Smith, K. S., Bowers, D. C., Bendel, A., Fisher, P. G., Partap, S., Crawford, J. R., Hassall, T., Indelicato, et al  
2018; 19 (6): 768–84
- **Arginine vasopressin in cerebrospinal fluid is a marker of sociality in nonhuman primates** *SCIENCE TRANSLATIONAL MEDICINE*  
Parker, K. J., Garner, J. P., Oztan, O., Tarara, E. R., Li, J., Sclafani, V., Del Rosso, L. A., Chun, K., Berquist, S. W., Chez, M. G., Partap, S., Hardan, A. Y., Sherr, et al  
2018; 10 (439)
- **Pediatric neuro-oncology survival disparities in California** *JOURNAL OF NEURO-ONCOLOGY*  
Cooney, T., Fisher, P. G., Tao, L., Clarke, C. A., Partap, S.  
2018; 138 (1): 83–97
- **Biomarker Discovery for Social Impairments: Translation From a Novel Monkey Model to Patients With Autism**  
Parker, K., Garner, J., Oztan, O., Tarara, E., Li, J., Sclafani, V., Del Rosso, L., Chun, K., Berquist, S., Chez, M., Partap, S., Hardan, A., Sherr, et al  
NATURE PUBLISHING GROUP.2017: S501–S502
- **Irreversible growth plate fusions in children with medulloblastoma treated with a targeted hedgehog pathway inhibitor** *ONCOTARGET*  
Robinson, G. W., Kaste, S. C., Chemaitilly, W., Bowers, D. C., Laughton, S., Smith, A., Gottardo, N. G., Partap, S., Bendel, A., Wright, K. D., Orr, B. A., Warner, W. C., Onar-Thomas, et al  
2017; 8 (41): 69295–302
- **Pediatric cancer risk in association with birth defects: A systematic review** *PLOS ONE*  
Johnson, K. J., Lee, J., Ahsan, K., Padda, H., Feng, Q., Partap, S., Fowler, S. A., Druley, T. E.  
2017; 12 (7): e0181246
- **AN ANALYSIS OF IMMUNOPHENOTYPE, INCLUDING PD-L1 AND PD1 EXPRESSION, IN PEDIATRIC CNS MALIGNANCIES: A PEDIATRIC BRAIN TUMOR CONSORTIUM STUDY**  
Hwang, E., Yang, C., Onar-Thomas, A., Fangusaro, J., Gururangan, S., Yearley, J., Blumenschein, W., McClanahan, T., Annamalai, L., Kocak, M., Partap, S., Hummel, T., Dunkel, et al  
OXFORD UNIV PRESS INC.2017: 29
- **Suspected Physical Abuse-Child.** *Journal of the American College of Radiology*  
Wootton-Gorges, S. L., Soares, B. P., Alazraki, A. L., Anupindi, S. A., Blount, J. P., Booth, T. N., Dempsey, M. E., Falcone, R. A., Hayes, L. L., Kulkarni, A. V., Partap, S., Rigsby, C. K., Ryan, et al  
2017; 14 (5S): S338-S349
- **Back Pain-Child.** *Journal of the American College of Radiology*  
Booth, T. N., Iyer, R. S., Falcone, R. A., Hayes, L. L., Jones, J. Y., Kadom, N., Kulkarni, A. V., Myseros, J. S., Partap, S., Reitman, C., Robertson, R. L., Ryan, M. E., Saigal, et al  
2017; 14 (5S): S13-S24
- **Pediatric Ependymoma** *JOURNAL OF CHILD NEUROLOGY*  
Vitanza, N. A., Partap, S.  
2016; 31 (12): 1354-1366
- **CHILDREN WITH MEDULLOBLASTOMA AND HIGH-GRADE GLIOMA: RACIAL/ETHNIC AND SOCIOECONOMIC DISPARITIES IN SURVIVAL OUTCOME**  
Cooney, T., Clarke, C., Fisher, P., Partap, S.  
OXFORD UNIV PRESS INC.2016: 40
- **CHILDREN WITH MEDULLOBLASTOMA AND HIGH-GRADE GLIOMA: RACIAL/ETHNIC AND SOCIOECONOMIC DISPARITIES IN SURVIVAL OUTCOME**  
Cooney, T., Partap, S., Dur, T.  
WILEY-BLACKWELL.2016: S69
- **Cerebrospinal fluid and plasma oxytocin concentrations are positively correlated and negatively predict anxiety in children** *MOLECULAR PSYCHIATRY*

- Carson, D. S., Berquist, S. W., Trujillo, T. H., Garner, J. P., Hannah, S. L., Hyde, S. A., Sumiyoshi, R. D., Jackson, L. P., MOSS, J. K., Strehlow, M. C., Cheshier, S. H., Partap, S., Hardan, et al  
2015; 20 (9): 1085-1090
- **Arginine Vasopressin Is a Blood-Based Biomarker of Social Functioning in Children with Autism** *PLOS ONE*  
Carson, D. S., Garner, J. P., Hyde, S. A., Libove, R. A., Berquist, S. W., Hornbeak, K. B., Jackson, L. P., Sumiyoshi, R. D., Howerton, C. L., Hannah, S. L., Partap, S., Phillips, J. M., Hardan, et al  
2015; 10 (7)
  - **IMPACT OF MOLECULAR SUB-TYPE AND CRANIOSPINAL IRRADIATION (CSI) DOSE ON RELAPSE OF MEDULLOBLASTOMA**  
Wang, A., Partap, S., Yeom, K., Martinez, M., Vogel, H., Donaldson, S., Fisher, P., Perreault, S., Cho, Y., Gibbs, I.  
OXFORD UNIV PRESS INC.2015: 22
  - **Decreased tumor apparent diffusion coefficient correlates with objective response of pediatric low-grade glioma to bevacizumab** *JOURNAL OF NEURO-ONCOLOGY*  
Hsu, C. H., Lober, R. M., Li, M. D., Partap, S., Murphy, P. A., Barnes, P. D., Fisher, P. G., Yeom, K. W.  
2015; 122 (3): 491-496
  - **Clinical course and progression-free survival of adult intracranial and spinal ependymoma patients** *NEURO-ONCOLOGY*  
Vera-Bolanos, E., Aldape, K., Yuan, Y., Wu, J., Wani, K., Necesito-Reyes, M. J., Colman, H., Dhall, G., Lieberman, F. S., Metellus, P., Mikkelsen, T., Omuro, A., Partap, et al  
2015; 17 (3): 440-447
  - **Childhood Brain Tumor Epidemiology: A Brain Tumor Epidemiology Consortium Review** *CANCER EPIDEMIOLOGY BIOMARKERS & PREVENTION*  
Johnson, K. J., Cullen, J., Barnholtz-Sloan, J. S., Ostrom, Q. T., Langer, C. E., Turner, M. C., McKean-Cowdin, R., Fisher, J. L., Lupo, P. J., Partap, S., Schwartzbaum, J. A., Scheurer, M. E.  
2014; 23 (12): 2716-2736
  - **Sports and childhood brain tumors: Can I play?** *Neuro-oncology practice*  
Perreault, S., Lober, R. M., Davis, C., Stave, C., Partap, S., Fisher, P. G.  
2014; 1 (4): 158-165
  - **MRI surrogates for molecular subgroups of medulloblastoma.** *AJNR. American journal of neuroradiology*  
Perreault, S., Ramaswamy, V., Achrol, A. S., Chao, K., Liu, T. T., Shih, D., Remke, M., Schubert, S., Bouffet, E., Fisher, P. G., Partap, S., Vogel, H., Taylor, et al  
2014; 35 (7): 1263-1269
  - **UNRAVELING THE TALE OF MEDULLOBLASTOMA: IMPACT OF MOLECULAR SUB-TYPE AND CRANIOSPINAL IRRADIATION (CSI) DOSE ON RELAPSE**  
Gibbs, I. C., Partap, S., Yeom, K., Martinez, M., Vogel, H., Donaldson, S. S., Fisher, P., Perreault, S., Cho, Y.  
OXFORD UNIV PRESS INC.2014: 82-83
  - **Time-dependent structural changes of the dentatohalamic pathway in children treated for posterior fossa tumor.** *AJNR. American journal of neuroradiology*  
Perreault, S., Lober, R. M., Cheshier, S., Partap, S., Edwards, M. S., Yeom, K. W.  
2014; 35 (4): 803-807
  - **Surveillance imaging in children with malignant CNS tumors: low yield of spine MRI.** *Journal of neuro-oncology*  
Perreault, S., Lober, R. M., Carret, A., Zhang, G., Hershon, L., Décarie, J., Vogel, H., Yeom, K. W., Fisher, P. G., Partap, S.  
2014; 116 (3): 617-623
  - **Relapse patterns in pediatric embryonal central nervous system tumors** *JOURNAL OF NEURO-ONCOLOGY*  
Perreault, S., Lober, R. M., Carret, A., Zhang, G., Hershon, L., Decarie, J., Yeom, K., Vogel, H., Fisher, P. G., Partap, S.  
2013; 115 (2): 209-215
  - **MEDULLOBLASTOMA IN THE OPERATIVE THEATER: ARE THEY PLAYING ACCORDING TO THEIR SUBTYPES?**  
Perreault, S., Chao, K., Ramaswamy, V., Shih, D., Remke, M., Luu, B., Schubert, S., Fisher, P., Partap, S., Vogel, H., Taylor, M., Goumnerova, L., Cho, et al  
OXFORD UNIV PRESS INC.2013: 168
  - **Increased focal hemosiderin deposition in pediatric medulloblastoma patients receiving radiotherapy at a later age** *Clinical article JOURNAL OF NEUROSURGERY-PEDIATRICS*  
Yeom, K. W., Lober, R. M., Partap, S., Telischak, N., Tsoinas, R., Barnes, P. D., Edwards, M. S.

2013; 12 (5): 444-451

- **Increased focal hemosiderin deposition in pediatric medulloblastoma patients receiving radiotherapy at a later age.** *Journal of neurosurgery. Pediatrics*  
Yeom, K. W., Lober, R. M., Partap, S., Telischak, N., Tsolinas, R., Barnes, P. D., Edwards, M. S.  
2013; 12 (5): 444-451
- **Histological Predictors of Outcome in Ependymoma are Dependent on Anatomic Site Within the Central Nervous System** *BRAIN PATHOLOGY*  
Raghunathan, A., Wani, K., Armstrong, T. S., Vera-Bolanos, E., Fouladi, M., Gilbertson, R., Gajjar, A., Goldman, S., Lehman, N. L., Metellus, P., Mikkelsen, T., Necesito-Reyes, M. J., Omuro, et al  
2013; 23 (5): 584-594
- **Prognostic role for diffusion-weighted imaging of pediatric optic pathway glioma.** *Journal of neuro-oncology*  
Yeom, K. W., Lober, R. M., Andre, J. B., Fisher, P. G., Barnes, P. D., Edwards, M. S., Partap, S.  
2013; 113 (3): 479-483
- **Distinctive MRI Features of Pediatric Medulloblastoma Subtypes** *AMERICAN JOURNAL OF ROENTGENOLOGY*  
Yeom, K. W., Mobley, B. C., Lober, R. M., Andre, J. B., Partap, S., Vogel, H., Barnes, P. D.  
2013; 200 (4): 895-903
- **Concurrent cyclophosphamide and craniospinal radiotherapy for pediatric high-risk embryonal brain tumors** *JOURNAL OF NEURO-ONCOLOGY*  
Campen, C. J., Dearlove, J., Partap, S., Murphy, P., Gibbs, I. C., Dahl, G. V., Fisher, P. G.  
2012; 110 (2): 287-291
- **SHOULD WE EXPECT SYMPTOMS AT RELAPSE?**  
Perreault, S., Lober, R. M., Partap, S., Carret, A., Fisher, F. G.  
OXFORD UNIV PRESS INC.2012: 127
- **DIFFERENT RELAPSE PATTERNS IN EMBRYONAL CNS TUMORS**  
Perreault, S., Lober, R. M., Zhang, G., Hershon, L., Decarie, J., Yeom, K., Vogel, H., Partap, S., Carret, A., Fisher, P. G.  
OXFORD UNIV PRESS INC.2012: 123
- **Aggressive Cerebellar Neuroepithelial Tumor in a 10 Year Old Boy**  
Vogel, H., Edwards, M., Fisher, P., Partap, S., Cho, Y.  
LIPPINCOTT WILLIAMS & WILKINS.2012: 572
- **INJURY TO DENTATE NUCLEI AND EFFERENT FIBERS BY PEDIATRIC POSTERIOR FOSSA TUMORS**  
Lober, R., Perrault, S., Partap, S., Edwards, M., Fisher, P., Yeom, K.  
OXFORD UNIV PRESS INC.2012: 132-33
- **SURVEILLANCE SPINE MRIS TO DETECT TUMOR RELAPSE IN PATIENTS WITH MEDULLOBLASTOMA**  
Perreault, S., Lober, R., Yeom, K., Carret, A., Vogel, H., Partap, S., Fisher, P.  
OXFORD UNIV PRESS INC.2012: 143
- **Stroke and Cerebrovascular Complications in Childhood Cancer Survivors** *SEMINARS IN PEDIATRIC NEUROLOGY*  
Partap, S.  
2012; 19 (1): 18-24
- **PROGNOSTIC ROLE OF DIFFUSION-WEIGHTED MRI IN PEDIATRIC OPTIC PATHWAY GLIOMA**  
Yeom, K., Rosenberg, J., Andre, J. B., Fisher, P. G., Edwards, M. S., Barnes, P. D., Partap, S.  
OXFORD UNIV PRESS INC.2011: 139-40
- **Birth Anomalies and Obstetric History as Risks for Childhood Tumors of the Central Nervous System** *PEDIATRICS*  
Partap, S., Maclean, J., Von Behren, J., Reynolds, P., Fisher, P. G.  
2011; 128 (3): E652-E657
- **Liposomal cytarabine for central nervous system embryonal tumors in children and young adults** *JOURNAL OF NEURO-ONCOLOGY*  
Partap, S., Murphy, P. A., Vogel, H., Barnes, P. D., Edwards, M. S., Fisher, P. G.  
2011; 103 (3): 561-566
- **Effect of chronic red cell transfusion therapy on vasculopathies and silent infarcts in patients with sickle cell disease** *AMERICAN JOURNAL OF HEMATOLOGY*

- Gyang, E., Yeom, K., Hoppe, C., Partap, S., Jeng, M.  
2011; 86 (1): 104-106
- **Birth Weight and Order as Risk Factors for Childhood Central Nervous System Tumors** *JOURNAL OF PEDIATRICS*  
Maclean, J., Partap, S., Reynolds, P., Von Behren, J., Fisher, P. G.  
2010; 157 (3): 450-455
  - **Embryonal Tumors** *PEDIATRIC CNS TUMORS, SECOND EDITION*  
Partap, S., Fisher, P., Gupta, N., Banerjee, A., HaasKogan, D.  
2010: 89-114
  - **Cerebrovascular disease in childhood cancer survivors A Children's Oncology Group Report** *NEUROLOGY*  
Morris, B., Partap, S., Yeom, K., Gibbs, I. C., Fisher, P. G., King, A. A.  
2009; 73 (22): 1906-1913
  - **Medulloblastoma Incidence has not Changed Over Time A CBTRUS Study** *JOURNAL OF PEDIATRIC HEMATOLOGY ONCOLOGY*  
Partap, S., Curran, E. K., Propp, J. M., Le, G. M., Sainani, K. L., Fisher, P. G.  
2009; 31 (12): 970-971
  - **Levetiracetam For Seizures in Children With Brain Tumors and Other Cancers** *PEDIATRIC BLOOD & CANCER*  
Partap, S., Fisher, P. G.  
2009; 52 (2): 288-289
  - **Neurological complications in children.** *Cancer treatment and research*  
Partap, S., Fisher, P. G.  
2009; 150: 133-143
  - **Epidemiology of Pediatric Central Nervous System Germ Cell Tumors: A California Cancer Registry Study**  
Partap, S., Von Behren, J., MacLean, J., Fisher, P. G., Reynolds, P. R.  
WILEY-LISS.2008: S152
  - **GENDER, BIRTH SEASONALITY, AND BIRTH DEFECTS AS RISK FACTORS FOR PEDIATRIC BRAIN TUMORS: A CALIFORNIA CANCER REGISTRY STUDY**  
Partap, S., Von Behren, J., Maclean, J., Fisher, P., Reynolds, P.  
OXFORD UNIV PRESS INC.2008: 779-80
  - **Perinatal risk factors for childhood brain tumors: A California case-control study**  
Maclean, J., Von Behren, J., Partap, S., Fisher, P., Reynolds, P.  
DUKE UNIV PRESS.2008: 415
  - **50 years ago in The Journal of Pediatrics - Jacksonian seizures in infancy and childhood** *JOURNAL OF PEDIATRICS*  
Partap, S.  
2008; 152 (6): 800
  - **Epidemiology of pediatric CNS germ cell tumors: A California Cancer Registry study**  
Partap, S., Von Behren, J., Maclean, J., Fisher, P., Reynolds, P.  
DUKE UNIV PRESS.2008: 413
  - **Update on new treatments and developments in childhood brain tumors** *CURRENT OPINION IN PEDIATRICS*  
Partap, S., Fisher, P. G.  
2007; 19 (6): 670-674
  - **50 Years Ago in The Journal of Pediatrics: Agenesis of the corpus callosum: report of eight cases in infancy.** *JOURNAL OF PEDIATRICS*  
Partap, S.  
2007; 150 (4): 399
  - **50 Years Ago in The Journal of Pediatrics: Low cerebrospinal fluid glucose associated with meningeal neoplasia** *JOURNAL OF PEDIATRICS*  
Partap, S.  
2007; 151 (2): 177

- **Spontaneously relapsing and remitting primary CNS lymphoma in an immunocompetent 45-year-old man** *JOURNAL OF NEURO-ONCOLOGY*  
Partap, S., Spence, A. M.  
2006; 80 (3): 305-307
- **Complications of a temozolomide overdose: a case report** *JOURNAL OF NEURO-ONCOLOGY*  
Spence, A. M., Kiem, H., Partap, S., Schuetze, S., Silber, J. R., Peterson, R. A.  
2006; 80 (1): 57-61
- **Prolonged but reversible migraine-like episodes long after cranial irradiation** *NEUROLOGY*  
Partap, S., Walker, M., Longstreth, W. T., Spence, A. M.  
2006; 66 (7): 1105-1107