



CYBERKNIFE CENTERS OF
SAN DIEGO OPENS A SECOND
LOCATION IN ENCINITAS..... **2**



PHYSICIAN SPOTLIGHT:
CANCER SPECIALIST
DR. PAUL GOLDFARB **4**



The
CyberKnife
Success
n e w s l e t t e r

*The CyberKnife Centers of San Diego
are the first cancer treatment centers
in San Diego to offer the CyberKnife®
image-guided radiation therapy.*

Now Featuring:

The RoboCouch Patient Positioning System

Cyberknife Centers of San Diego is proud to
announce the arrival of the latest
BREAKTHROUGH in Cancer Treatment
Technology. Our brand new center located
in Encinitas features the amazing
RoboCouch Patient Positioning System.



Developed for unparalleled targeting accuracy, the RoboCouch™ System
is the world's most advanced Patient Positioning system supporting the
sub-millimeter accuracy requirements of full-body radiosurgery. Combined
with the unhindered robotic mobility of the CyberKnife® System, the
RoboCouch System offers unprecedented accessibility to tumors
anywhere in the body.

Cyberknife Centers of San Diego is the **ONLY** Cyberknife facility in
Southern California to offer the RoboCouch Patient Positioning System.

Tour the **NEW**

CyberKnife Centers of San Diego
office in **ENCINITAS**



*Information about the CyberKnife
treatment and demonstrations
of the technology will be provided.*

NOVEMBER 17, 2007
10 a.m. to 11:30 a.m.

**477 N. El Camino Real
Suite D-101
Encinitas, CA. 92024**

*Please call
to reserve a space
by November 12*

(888) 233-1803



Cutting Edge Cancer Treatment Offers New Hope for San Diego Patients

San Diego has become one of only a handful of cities in California to offer cancer patients a revolutionary technology called CyberKnife that destroys tumors without surgery and with minimal risk of damage to surrounding tissue.

Physicians at CyberKnife Centers of San Diego, located on Ruffin Rd. in central San Diego, treated their first CyberKnife patient more than one year ago, becoming the first facility in San Diego to offer this revolutionary technology. Since this facility opened, a large number of cases have been treated, rapidly building one of the largest CyberKnife experience bases in the state of California.

Developed at Stanford University, the CyberKnife system has a unique ability to target, track, move with, and tightly wrap around a tumor, which means it can

deliver a higher dose of radiation with less damage to surrounding tissue than traditional radiotherapy systems. Because of these unique abilities, it may even treat tumors that have been deemed inoperable, allowing doctors to treat those who do not have a viable surgical option, or who have already received the maximum dose of "conventional" radiation.

For more information about CyberKnife Stereotactic Radiosurgery and the CyberKnife Centers of San Diego, please visit www.sdcyberknife.com or call (858) 505-4100 or (888) 233-1803.

Case Study

INOPERABLE LUNG CANCER

Patient Demographics:

Sex: M
Age: 74
Treatment Date: Dec. 2006

Surgeon: James Hemp, M.D.
Radiation Oncologist: Damon Smith, M.D.
Medical Physicist: Haoran Jin, Ph.D.

Case History:

This 74 year old man developed hemoptysis 6 weeks prior to consultation. CT of the chest (above, left) demonstrated a 3.3 cm. left hilar mass. Bronchoscopy demonstrated an erythematous endobronchial mass on the lateral posterior wall of the left mainstem bronchus. PET scan demonstrated a hypermetabolic mass in the left hilar region. No other hypermetabolic sites were identified. Pulmonary function tests revealed a forced vital capacity of 2.35 L, 65% of predicted, and an FEV 1 of 1.13 L, 47% of predicted. He was not felt to be a surgical candidate. The patient was otherwise asymptomatic and denied cough or weight loss.

BEFORE CYBERKNIFE THERAPY



PET showing involvement of the left hilum.
No distant disease is identified

CyberKnife Treatment Rationale:

Inoperable patients are usually treated with external beam radiation therapy, which offers 3 to 5 year survival rates of only 15% to 45%. Technological advances in radiation therapy delivery have enabled radiosurgery, defined as high-dose radiation, to be delivered with surgical precision in 1 to 5 sessions. The Cyberknife is the only radiosurgery device which actively tracks and moves with the tumor as it moves with respiration, enabling greater accuracy and less dose to surrounding normal lung.

Treatment Delivery:

The tumor was localized using the implanted fiducials. Each treatment took approximately 90 minutes, and was delivered with the patient lying awake on the table without anesthesia.

AFTER CYBERKNIFE THERAPY



PET scan September 2007
demonstrating resolution of tumor

Outcome and Follow-up:

The patient's hemoptysis resolved, and he did not suffer from esophagitis, cough, or dyspnea. Follow up PET-CT 9 months post-treatment demonstrate complete resolution of uptake in the tumor bed, and there continues to be no sign of distant disease.

CyberKnife Advantage:

Cyberknife enabled this patient to undergo a non-invasive treatment which has led to complete resolution of his lung cancer.

Radiosurgery for early stage lung cancers has become a valid treatment option for patients who are inoperable. Multiple multicenter trials have demonstrated excellent efficacy, with most centers reporting local control of 80% to 95% at 2 years. Overall survival appears equivalent to surgical intervention.

Central San Diego
5395 Ruffin Rd., Suite. 103
San Diego, CA 92123
(858) 505-4100

North County San Diego
477 N. El Camino Real, Suite D-101
Encinitas, CA. 92024
(760) 230-6706

www.sdcyberknife.com

CyberKnife Centers of San Diego to Open State-of-the-Art Treatment Center in North County

CyberKnife Centers of San Diego will bring the CyberKnife treatment to North County when they open a second facility in Encinitas.

Part of the North Coast Health Center expansion, the new office will open in **November 2007**. The center will be located at 477 N. El Camino Real, Suite D-101.

According to CyberKnife Center physicians, the response to the technology and the demand for treatment has been very strong since the opening of the first facility in June of 2006, particularly from North County residents.

"We have seen a number of North County

residents who have sought out CyberKnife treatment because they were not candidates for surgery or traditional radiation therapy. We have also seen quite a few patients who opted for CyberKnife treatment among several options," said Dr. Damon Smith.

This advanced radiosurgical device will complete a full service Cancer Center practice at the North Coast Health Center Campus, which will include state-of-the-art external beam radiotherapy, image-guided radiotherapy (IGRT) and leading research-oriented medical oncology practice.



"By creating convenient, precise and powerful treatment, with typically minimal side effects, CyberKnife® has opened up a whole new world in cancer treatment, with demand from our North County patients and physicians leading us to install our second device."

DR. DONALD B. FULLER
RADIATION ONCOLOGIST

CyberKnife In The News

- 10/07 San Diego Magazine**
CyberKnife Centers of San Diego doctors are recognized as "Top Doctors"
- 9/07 NBC 7/39**
Dr. Donald B. Fuller discusses the latest advances in prostate cancer treatment, featuring CyberKnife.
- 4/07 KFMB - News 8**
Dr. Damon Smith discusses CyberKnife radiosurgery



CyberKnife In The Community



CyberKnife Centers of San Diego is a proud sponsor of the Komen San Diego Race for the Cure®, Nov. 4. Check out www.sdcyberknife.com for more events where you can learn about the CyberKnife treatment.

About CyberKnife Centers of San Diego

The CyberKnife Centers of San Diego were developed in partnership between Radiation Medical Group and other local medical and surgical specialists. Our programs have developed a reputation for clinical excellence and compassionate care. The CyberKnife Centers of San Diego reaffirm our commitment to superior care for our patients.

What We Treat:

The CyberKnife is most commonly used to treat tumors in the brain, skull base, neck, spine, lung, pancreas, liver, kidney and pelvis. Depending upon the circumstance, the CyberKnife may also effectively target tumors elsewhere in the body.



PHYSICIAN SPOTLIGHT: Dr. Paul M. Goldfarb

CyberKnife Centers Attract Top Cancer Specialists

The CyberKnife Centers of San Diego have an open staff model to enable top-ranking medical specialists from throughout the county to treat patients.

One such physician is Dr. Paul M. Goldfarb, a well-known oncologic surgery specialist with more than 30 years experience in treating cancer patients. Dr. Goldfarb saw the CyberKnife's potential for treating cancer patients, received his formal training in this radiosurgery treatment, and began treating patients at the CyberKnife Centers in 2006.

"The CyberKnife treatment impressed me with its surgery-like capabilities without the need for actual surgery, which, for some patients, is not an option due to health, tumor size or location," said Goldfarb. "The results that are possible with CyberKnife are very encouraging."

In addition to treating patients at the CyberKnife Centers, Dr. Goldfarb currently practices with Oncology Associates of San Diego; is a Clinical

Professor in the Department of Surgery at the University of California, San Diego; and teaches at the U.S. Naval Hospital, San Diego. He is a member of the board of directors for the American Cancer Society and has served in various positions with the society, including president.

Dr. Goldfarb also shares his extensive expertise in cancer and cancer treatment as a guest lecturer on topics such as breast cancer, head and neck cancer, colorectal cancer, melanoma and more.

"Dr. Goldfarb is an outstanding physician whose expertise and compassion are a great addition to the center," said Douglas Myking, M.B.A., Executive Director and CFO for CyberKnife Centers of San Diego. "Partnerships with physicians like him enable our center to provide the best possible specialty care for our patients."



Spotlight Physician: Dr. Paul M Goldfarb

CyberKnife Centers of San Diego Expand Prostate Radiosurgery Research

Dr. Donald B. Fuller of the CyberKnife Centers of San Diego is accepting prostate cancer patients for a Scripps IRB approved clinical trial, entitled: PROSPECTIVE EVALUATION OF CYBERKNIFE STEREOTACTIC RADIOSURGERY FOR LOW AND INTERMEDIATE RISK PROSTATE CANCER: EMULATING HDR BRACHYTHERAPY DOSIMETRY.

Building on the success of our original Virtual HDR® prostate radiosurgery protocol, we are honored to be the primary investigator for a larger multi-center evaluation, designed to thoroughly assess CyberKnife effectiveness and quality of life outcome for selected early stage prostate cancer patients, using a CyberKnife dose schedule that employs an already published effective radiation dose, which has been delivered by a technique known as High Dose Rate (HDR) prostate brachytherapy, an effective but more invasive treatment method.

How it works: Briefly, CyberKnife radiosurgery is a noninvasive, automated, "artificial-intelligence-like" form of radiation treatment delivery, which delivers hundreds of precisely targeted beams through the target volume, with amazing accuracy created by a method known as "tracking," which constantly updates the position of the prostate throughout

each treatment. Using many more beams and targeting angles than traditional radiation systems, combined with the continuously updated target tracking feature, means that CyberKnife may wrap very high doses of radiation, very tightly around the prostate.

Because of the novelty of this technique, the center is offering this approved clinical trial to eligible (early stage) patients to confirm the effectiveness, evaluate the side effects, compare the result with other prostate cancer treatment methods, and share the findings through publication of results in peer-reviewed medical literature. Patients who are interested in this clinical trial are encouraged to call (888) 233-1803 or visit the website at www.sdcyberknife.com.

Physicians

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