



FOR IMMEDIATE RELEASE

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**ISORAY ANNOUNCES WORLD'S FIRST CESIUM-131 TREATMENT
FOR METASTASIZED LUNG CANCER**

Lung Cancer Originating in Uterus Treated With Cs-131 Internal Radiation Therapy

Richland, WA (October 7, 2010) - - **IsoRay, Inc. (Amex: ISR) announced today another milestone in the use of Cesium-131 (Cs-131) brachytherapy seeds (internal radiation therapy).** Doctors at a world renowned medical facility have performed the world's first Cs-131 **brachytherapy** seed implant following a wedge resection of a lung tumor which originated from a form of malignant uterine cancer. **Initially used to treat primary cancers, Cs-131 seeds are now being used to treat metastasized cancer.**

Lung cancer is the leading cause of cancer deaths worldwide. Each year, over 222,500 Americans develop primary lung cancer. In addition, more than 100,000 cases of metastasized lung cancers are diagnosed very year. When a cancer spreads (metastasizes) from its original site to other areas of the body, it is called metastatic cancer. All cancers have the potential to spread this way.

The **Cs-131** brachytherapy seeds implant was performed on a patient with a history of uterine cancer, who was disease free until the cancer reoccurred in a lung. The patient did not have the lung capacity to undergo a surgical procedure to remove the cancerous lobe of the lung (lobectomy). **Cs-131 was selected because of its high dose rate and its ability to have a positive impact in controlling the highly aggressive tumor.**

The use of Cs-131 brachytherapy seeds for metastasized lung cancer represents the latest advancement in the expanding adoption of this groundbreaking internal radiation therapy for cancers throughout the body. Cs-131 is now being used successfully to treat prostate, lung, colon, ocular, head and neck cancers at more than 100 centers throughout the U.S.

Radiation is one of the most important and potent weapons used in treating cancers.

Brachytherapy is internal radiation therapy in which radioactive material (isotopes) is used to kill cancer cells. **IsoRay's patented Cs-131 brachytherapy seeds represent the biggest advancement in internal radiation therapy in twenty years, providing several advantages over other internal radiation therapies.** Doctors can vigorously treat a variety of cancers with reduced side effects and limited damage to healthy surrounding tissues and organs compared to other internal radiation therapies. Cs- 131 seeds deliver radiation quickly and aggressively compared to other types of internal, low dose rate radiation. In addition, Cs-131 is minimally invasive, provides higher energy, more rapid delivery of a uniform dose of radiation, and has a shorter half life (9.7 days) than other

radioactive isotopes used in internal radiation therapy. The pioneering treatment impacts longevity and cure rates, can be performed outside a hospital setting, and results in a patient's faster return to normal activities.

IsoRay CEO Dwight Babcock says the latest progress reflects the Company's strategic plan to work with leading medical facilities worldwide to continue expanded usage of the Company's patented Cs-131 brachytherapy seeds throughout the body. "From our initial focus on the treatment of [prostate cancer](#), we are seeing increased revenues from new treatment sites addressing cancers throughout the body. We are experiencing a proliferation of inquiries from physicians and medical institutions both domestically and internationally who want to provide their patients with this important new treatment option. **In the near future, we will be discussing advancements in the adoption and usage of Cs-131 brachytherapy.**"

The FDA has cleared Cesium-131 for use in the treatment of cancers throughout the body including breast and brain cancers.

About IsoRay, Inc.

IsoRay, Inc., through its subsidiary, IsoRay Medical, Inc., is the exclusive producer of Cesium-131 brachytherapy seeds, which are expanding brachytherapy options throughout the body. Learn more about this innovative Richland, Washington company and explore the many benefits and uses of Cesium-131 by visiting www.isoray.com.

Safe Harbor Statement

Statements in this news release about IsoRay's future expectations, including: the advantages of our Cesium-131 seed, whether IsoRay will be able to expand its base beyond prostate cancer, whether IsoRay's Cesium-131 seed will be used to treat additional cancers and malignant disease, whether the use of Cesium-131 to treat metastatic or other cancers will be successful in the initial and any future implants, whether revenue from cancers other than prostate cancer will continue to increase, and all other statements in this release, other than historical facts, are "forward-looking statements" within the meaning of the Private Securities Litigation Reform Act of 1995 ("PSLRA"). This statement is included for the express purpose of availing IsoRay, Inc. of the protections of the safe harbor provisions of the PSLRA. It is important to note that actual results and ultimate corporate actions could differ materially from those in such forward-looking statements based on such factors as physician acceptance, training and use of our products, our ability to successfully manufacture, market and sell our products, our ability to manufacture our products in sufficient quantities to meet demand within required delivery time periods while meeting our quality control standards, our ability to enforce our intellectual property rights, whether additional studies are released and support the conclusions of early clinical studies, whether initial implants of Cesium-131 to treat metastatic or other cancers result in favorable patient outcomes, whether resources are available as needed to conduct clinical trials and whether results of any such trials are favorable, patient results achieved when Cesium-131 is used for the treatment of cancers and malignant diseases beyond prostate cancer, successful completion of future research and development activities, and other risks detailed from time to time in IsoRay's reports filed with the SEC.