Technology Development & Commercialization
UNIVERSITY HEALTH NETWORK
Toronto General Hospital • Princess Margaret Hospital • Toronto Western Hospital

Bone Cancer PDT Treatment Device

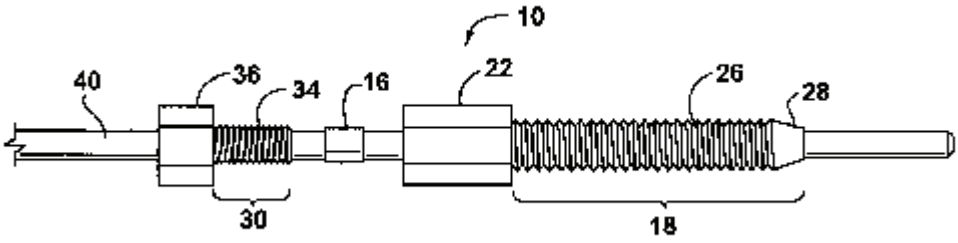
Overview of Technology:

Research scientists and surgeons at the University Health Network have cooperatively developed a novel device which enables the use of photodynamic therapy for the treatment of tumors, lesions and other disease in the bone.

Over 50% of the approximately 12 million cases of cancer diagnosed in North America in 2007 have the potential to metastasize to bone. The mainstay treatment in the ambulatory patient is radiation therapy. Unfortunately radiation therapy delivered to the bone and spine provides only limited relief from pain, adversely affects the integrity of the soft tissue, and can dramatically increase the mortality of surgical intervention.

Photodynamic Therapy (PDT) is recognized as a minimally invasive cancer treatment which can directly target lesions with minimal systemic side effects. This technology enables the use of PDT therapy to treat cancer of the bone for the first time. This device secures itself to the treatment area on the bone, providing a stabilized optical conduit that enables the use of various light-based therapy treatments, including PDT, in bone and the spine.

This technology is currently entering clinical trials at the Sunnybrook Health Sciences Center and is available for world-wide exclusive licensing.



Patents:

CA2,543,421, EP04789764.0, US10/969,910 - Filed - Oct 22, 2004

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