| SBIR 06.2 PHASE I - AWARD DETAILS | |
|---|---|
| **ORGANIZATION** | MRMC |
| **TOPIC NUMBER** | A06-164 |
| **CONTRACT NUMBER** | |
| **YEAR OF AWARD** | |
| **AWARD START DATE** | |
| **AWARD COMPLETION DATE** | |
| **PROPOSAL NUMBER** | A062-164-0633 |
| **TITLE** | Enhanced DCE-MRI Imaging of Ovarian Cancer |
| **PROJECT MANAGER** | David B. Kynor<br>(603) 643-3800<br>dbk@creare.com |
| **COMPANY** | Creare Inc.<br>P.O. Box 71<br>Hanover NH 03755<br><br>Minority Owned: No<br>Veteran Owned: No<br>Number of Employees: 114 |
| **KEYWORDS** | ovarian cancer, DCE-MRI, magnetic resonance imaging, angiogenesis |
| **ABSTRACT** | The recent introduction of dynamic contrast-enhanced magnetic resonance imaging (DCE-MRI) permits noninvasive imaging of vascular function and characterization of angiogenesis. This emerging capability is critically important in staging disease and screening for cancer. The primary goal of this project is development of fundamental improvements in DCE-MRI imaging methods that provide increased sensitivity to subtle vascular changes and enable analysis of the inherent inhomogeneity of tumor perfusion at high spatial resolution. Performance of the new methods will be established based on testing in a cohort of ovarian cancer patients being treated with a novel angiogenesis inhibitor, and as a means of screening for ovarian cancer. Our team includes expertise in medical imaging, commercialization of novel medical devices for surgery and imaging, as well as a well known radiologist with expertise in noninvasive assessment of treatment response and application of magnetic resonance imaging methods in ovarian cancer. |
| **BENEFITS** | The imaging methods developed under this program will assist military and civilian physicians in the detection and treatment of ovarian cancer by improving the ability of DCE-MRI to provide high-resolution images of the ovaries and peritoneum. |