

Medical Device Testing Services



Charles River Laboratories offers an integrated approach to medical device studies by bringing together senior scientists and surgeons in collaboration with leading academic experts with drug and device experience. We support developers and manufacturers of medical devices from early stage “proof of concept” studies to GLP efficacy and safety studies. With facilities in both North America and Europe, we are uniquely positioned to meet our client’s aggressive timelines.

Equipment and Facilities

Our surgical laboratories are fully equipped for studies requiring fluoroscopy, IVUS, echocardiography/ultrasound, telemetry, routine radiography, endoscopy, hemodynamic data collection as well as other standard and specialized surgical and monitoring equipment. Surgical protocols can be implemented and postmortem capabilities include a dedicated necropsy suite for on-site examinations. Extensive histopathology services are offered through our pathology specialists.

Surgical Expertise

- Combination Drug – Device Studies
- Stents: Coronary, Biliary, Urethral, Others
- Endovascular Grafts
- Wound Closure Devices
- Biomaterial Evaluations – Individually and as Completed Devices
- Brachytherapy
- Intracranial Implants
- Intraocular Implants (Anterior and Posterior Chamber)
- Cardiovascular Devices (LVAD, Dialyzers, Heart Valves)
- Orthopedic Devices (Bone Grafts, Cartilage and Total Joint Replacements)
- Neurologic Devices (Intrathecal, Intraventricular, Complete Stereotactic Capability)



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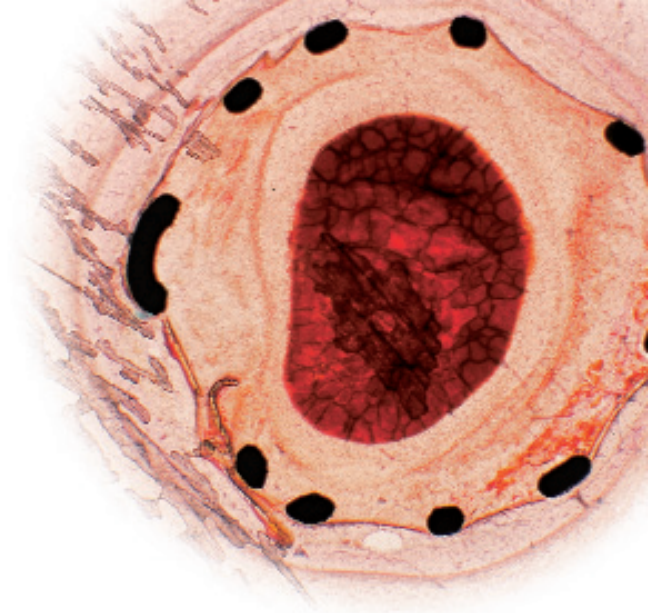
Contributing to the Search for Healthier Lives™

Medical Device Pathology Services

For over 15 years, our board-certified pathologists have directed efforts in Proof of Concept and Safety & Efficacy research of medical devices and biomaterials in support of regulatory submissions. Charles River pathologists provide preclinical evaluation and consulting services for studies involving bone, joint and soft tissue medical devices and biomaterials. Our pathologists evaluate cellular, tissue, organ or whole body response to biomedical devices in preclinical product development. Charles River is clearly positioned as the leader in providing pathology support to the biomedical device community.

GLP Pathology Services

- Plastics Histology (GMA, MMA)
- Histomorphometry
- Electron Microscopy
- Immunohistochemistry
- Organ/Whole Body Perfusion
- On-site Necropsy Support
- Full Photographic Documentation
- Regulatory Support for FDA Submissions



Charles River provides GLP-compliant support in a large number of areas in the development of medical devices. Our pathologists consult with biomedical engineers to select the best animal model(s) for testing of the device. Protocol development includes determination of project duration, required tissues or organ systems to be evaluated, and methodology of tissue preparation.

Medical Device/Biomaterial Testing

- Cardiovascular Stents
- Artificial Knees, Hips, Ligaments, etc.
- Grafts (Abdominal, Aortic, etc.)
- Vertebral Cages
- Blood Filters
- Bone Cements
- Vascular Connectors
- Aneurysm Coils
- LVAD (Left Ventricular Assist Device)
- Tissue Engineering
- Cellular Phenotyping


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