

# Diagnostic Programs

Yale Pathology Labs are part of the Department of Pathology at the Yale School of Medicine. At Yale Pathology Labs, science and medicine converge as the latest research is transferred directly to the patient. We offer state-of-the-art diagnostic services in Cytopathology, Surgical Pathology, and Autopsy, supported by a variety of specialty laboratories: Cytoprep, Electron Microscopy, Flow Cytometry, Histology, Immunohistochemistry, and Molecular Diagnostics.

Led by anatomical pathologists specialized in **Cytopathology** as well as in different domains of surgical pathology, our team of certified cytotechnologists analyze over 100,000 specimens a year and conduct a wide array of tests, including the following: early detection of cervical cancer, squamous cell carcinoma, endometrial adenocarcinoma, ovarian adenocarcinoma, HPV testing, bronchial lavages (pneumocystis carinii, aspergillus), fine needle aspirations (lung, liver, thyroid, pancreas), body fluid cytology (pleural, peritoneal, pericardial), mesothelioma, metastatic adenocarcinoma, and circulating tumor cells.

Our board-certified pathologists are experts in most subspecialty areas and offer complete services for all **Surgical Pathology** needs. Their consultative reports are issued only after the clinical and radiological data have been integrated with the morphological findings and the tissue specimen has been analyzed using the most modern technologies. The clinical programs encompassed by Surgical Pathology include the following: Bone and Soft-Tissue Pathology, Breast Pathology, Dermatopathology, Endocrine, Head & Neck Pathology, Gastrointestinal Pathology, Genitourinary Pathology, Gynecologic Pathology, Hematopathology, Neuropathology, Ophthalmologic Pathology, Pediatric Pathology, Renal Pathology, and Thoracic Pathology.

**Autopsy Pathology** continues to contribute to medical practice and patient care by constantly honing and refining our understanding of the late stages of disease and assessing the efficacy of both diagnostics and therapeutic interventions. Causes of reproductive failure and inherited diseases responsible for life-threatening congenital defects are studied by our specialized neonatologists and pediatric pathologists. Our expertise and state-of-the-art facilities do not only bring the obvious benefits to health care and education, but also help individual families by providing information (for example, about inherited predispositions, or about potential for contagion by infectious agents) that is useful to the surviving members of the family, and by providing objective answers to any questions they may have. The Autopsy Service will perform for-fee postmortem examinations on patients treated outside the Yale Medical Center.

The Department of **Laboratory Medicine** collaborates with Yale Pathology Labs to provide a complete and extensive test menu for our clients. Besides routine tests, specialized consultation and tests include, but are not limited to, therapeutic drug monitoring, flow cytometry, special coagulation testing for bleeding disorders and hypercoagulable states, and advanced infectious disease testing including rapid virology diagnostics.

The DNA revolution in biology and the completion of the human genome sequence have propelled **Molecular Diagnostics** to the front lines of clinical care. Yale Pathology Labs were among the first to adopt these technologies and have developed an efficient laboratory devoted exclusively to state-of-the-art applications that can in many instances provide clear and objective answers to difficult diagnostic or prognostic dilemmas.

