Pathology Services & Clinical Specialties
Sentara Reference Laboratory contracts with Pathology Sciences Medical Group (PSMG) and General Hospital Pathologists, Ltd. (GHPL) to provide professional pathology services for our patients. Below, you will find an alphabetical list of pathologists, their affiliations and areas of expertise.

Rebecca Alston, M.D. (PSMG)  
Board-certified in Anatomic and Clinical Pathology.  
Special Interests: Breast Pathology  
Phone: 757/388-3221

Barbara H. Amaker, M.D. (PSMG)  
Board-certified in Anatomic and Clinical Pathology and Neuropathology, added expertise in Gynecologic Pathology.  
Special Interests: Gynecologic Pathology and Neuropathology.  
Phone: 757/388-3221

Mary L. Blumberg, M.D. (PSMG)  
Board-certified by American Board of Pathology, American Board of Internal Medicine and National Board of Medical Examiners.  
Special Interests: Breast, Soft Tissue, Bone and Cardiac Pathology.  
Phone: 757/388-3221

Maria Cundiff, M.D. (PSMG)  
Board-certified in Anatomic and Clinical Pathology.  
Special Interests: Breast Pathology.  
Phone: 757/388-3221

Stephen I. Fisher, M.D. (PSMG)  
Board-certified in Anatomic and Clinical Pathology and Hematopathology, added area of expertise in Cytopathology.  
Special Interests: Lymphoma, Leukemia, Bone Marrow, Lymph Node, Mediastinal Pathology, Molecular Diagnostics, FISH and Cytogenetic Testing.  
Phone: 757/388-2435

Dan Garland, M.D. (PSMG)  
Board-certified in Anatomic and Clinical Pathology and Cytopathology.  
Special Interests: Cytopathology.  
Site Director, Sentara Obici Hospital.  
Phone: 757/934-4850

Valerio M. Genta, M.D. (GHP)  
Medical Director SVBGH and SI Laboratory.  
Board-certified in Anatomic and Clinical Pathology and Medical Microbiology. Fellow of National Academy of Clinical Biochemistry.  
Special Interests: Breast Pathology, Gastrointestinal, Dermatopathology, Infectious Diseases and QC/Data Analysis.  
Phone: 757/481-1189, 395-8889

Jimmy W. Green, M.D. (PSMG)  
Board-certified in combined Anatomic and Clinical Pathology and in Forensic Pathology.  
Special Interests: Breast, Cardiac and Dermatopathology.  
Phone: 757/388-3221

Alan Harris, M.D. (PSMG)  
Board-certified in Anatomic and Clinical Pathology and Hematopathology.  
Phone: 757/388-3221

Lora Herman, M.D. (PSMG)  
Board-certified in Anatomic and Clinical Pathology and Cytopathology.  
Phone: 757/388-3221

David Marcheschi, M.D. (PSMG)  
Board-certified in Anatomic and Clinical Pathology and Cytology.  
Special Interests: Gynecology and Breast Pathology.  
Phone: 757/388-3221
Suhail Nasim, M.D., Ph.D. (PSMG)
Director, Molecular Diagnostic Laboratory
Board-certified in Anatomic and Clinical Pathology, subspecialty certification in Molecular Genetic Pathology, added area of expertise in Genitourinary Pathology.
Phone: 757/388-3488

Maria Parizhskaya, M.D. (PSMG)
Board-certified in Anatomic and Clinical Pathology.
**Special Interest:** Renal Pathology
Phone: 757/388-3221

James Post, M.D. (PSMG)
Phone: 757/388-3221

Robert T. Pu, M.D., Ph.D., FCAP (PSMG)
Board-certified in Anatomic Pathology and Cytopathology
**Special Interests:** Genitourinary Pathology
Phone: 757/388-0133

Wendy Rizzo, MD (PSMG)
Phone: 757/388-3221

Dennis A. Rowley, M.D. (PSMG)
Medical Director of Sentara Laboratories
Board-certified in Anatomic and Clinical Pathology, added areas of expertise in Gastrointestinal, Hepatic and Genitourinary Pathology
**Special Interest:** Dermatopathology
Phone: 757/388-2135

Ballur Samli, MD (PSMG)
Phone: 757/388-3221

Niria D. Sanchez, M.D. (PSMG)
Board-certified in Anatomic and Clinical Pathology and Cytopathology, added area of expertise in Fine Needle Aspiration.
Phone: 757/736-0121

YouJun (June) Shen, M.D. (GHP)
Associate Director of Surgical Pathology and Director of Cytopathology at SVBGH.
Board-certified in Anatomic and Clinical Pathology and Cytopathology.
**Special Interests:** Cytopathology, Breast Pathology and Molecular Pathology
Phone: 757/481-1189, 395-6160

Marc Silverberg, M.D. (PSMG)
Board-certified in Anatomic and Clinical Pathology; subspecialty: Head and Neck Pathology, Oral Pathology, Ocular Pathology and Maternofetal Pathology.
Phone: 757/388-2728

J. David Smith, M.D. (PSMG)
Board-certified in Anatomic and Clinical Pathology and Hematopathology; added areas of expertise in Flow Cytometry and coagulation.
Phone: 757/388-3221

J. Preston Sparrer, M.D. (PSMG)
Board-certified in Anatomic and Clinical Pathology, added areas of expertise in Gastrointestinal and Genitourinary Pathology.
**Special Interests:** Gastrointestinal Pathology, Leukemias, Myelodysplastic Syndromes, Lymphomas, Myeloproliferative Disorders, Flow Cytometry and Coagulation.
Phone: 757/388-3221

Stephanie Spingarn, M.D. (PSMG)
Director of Clinical Pathology
Board-certified in Anatomic and Clinical Pathology and Microbiology with added areas of expertise, Clinical Chemistry and Laboratory Quality Assurance.
**Special interests:** Medical Microbiology, clinical chemistry, laboratory management, laboratory quality assurance, Six Sigma and LEAN applied to the chemistry laboratory.
Phone: 757/388-3096
Scott J. Stanley, M.D. (PSMG)
Medical Director of Autopsy Service
Site Medical Director, Sentara Leigh
Board-certified in Anatomic and Clinical Pathology, added areas of expertise in Gastrointestinal Pathology and Hepatic Pathology.
Special Interests: Gastrointestinal and Hepatic pathology.
Phone: 757/934-4692

Audrey E. Steck, M.D. (PSMG)
Site Medical Director, Sentara Williamsburg Community Hospital
Board-certified in Anatomic and Clinical Pathology.
Special Interests: Breast Pathology and Cytology.
Phone: 757/984-7989

H. Raymond Tahhan, M.D. (PSMG)
Director of Transfusion Services
Board-certified in Clinical Pathology and Blood Banking/Transfusion Medicine; added expertise in Immunogenetics and Histocompatibility.
Special Interests: Blood Banking, Transfusion Medicine, Histocompatibility, Platelets/Coagulation, Liquid-based Hematopathology, Thalassemias, Hemoglobinopathies, Protein Electrophoresis and Immunofixation.
Phone: 757/388-2268

Wozhan Tang, M.D. (GHP)
Director of Hematopathology at SVBGH and Transfusion Medicine at SVBGH and SI
Board-certified in Anatomic and Clinical Pathology and Hematology
Special Interests: Hematopathology, Breast Pathology, Transfusion Medicine, and Flow Cytometry
Phone: 757/481-1189, 395-8896

Janet Winston, M.D. (PSMG)
Board-certified in Anatomic and Clinical Pathology.
Special Interest: Breast Pathology
Phone: 757/388-3221

Jennifer Winters, Ph.D. (PSMG)
Director of Cytogenetics Laboratory
Board certified in Clinical Cytogenetics by the American College of Medical Genetics.
Phone: 757/395-6976

Dean A. Troyer, M.D. (PSMG)
Board-certified in Anatomic Pathology and Clinical Pathology with added expertise in Gentiourinary and Renal Pathology.
Phone: 757/388-3508

Janet Winston, M.D. (PSMG)
Board-certified in Anatomic and Clinical Pathology.
Special Interest: Breast Pathology
Phone: 757/388-3221

Jennifer Winters, Ph.D. (PSMG)
Director of Cytogenetics Laboratory
Board certified in Clinical Cytogenetics by the American College of Medical Genetics.
Phone: 757/395-6976

Dean A. Troyer, M.D. (PSMG)
Board-certified in Anatomic Pathology and Clinical Pathology with added expertise in Gentiourinary and Renal Pathology.
Phone: 757/388-3508
Clinical Specialties

Pathology Services offers numerous specialties including transfusion services, chemistry, cytopathology, hematology, immunopathology, flow cytometry, microbiology, surgical pathology, DNA/Image analysis, serology, and autopsy services.

Any laboratory testing that requires a professional pathologist interpretation will be billed separately by Sentara Reference Laboratory. For professional fee billing inquiries, please call PSMG at (800) 748-7488 or GHPL at (757) 463-0071 as noted on your statement.

Chemistry
Chemistry services include extensive testing in areas of discrete analyte quantitation, screening and condition/organ specific profiles, protein analyses, electrophoresis, immunoassay, toxicology, hormone analysis, therapeutic drug monitoring, hepatitis testing and tumor marker quantitation.

For interpretation or technical assistance, please call:
Diana Cline MBA, MT (ASCP), Clinical Specialist   (757) 388-1982
Valerio M. Genta, MD, Pathologist, FACB    (757) 481-1159
Stephanie Spingarn, MD, Pathologist   (757) 388-3221

Cytogenetics and Molecular Cytogenetics (FISH)
Sentara’s cytogenetic laboratory offers a wide variety of tests that include karyotypic analyses, FISH analysis, including Rapid FISH screening and several FISH panels. Testing in this area can be coordinated with findings by Hematopathology and is completed by a qualified staff.

For information and technical assistance, please call   (757) 395-6970
Jennifer Winters, Ph.D., Clinical Cytogeneticist  (757) 395-6976
Kim Behm, HT (ASCP), Manager   (757) 395-6975
Kathie Early, CLSp (CG), Senior Technologist  (757) 395-6970

Cytology
Cytology is staffed with highly qualified cytotechnologists. Sentara Reference Laboratory provides supplies, including PAP kits.

In order to ensure correct identification of cytology specimens they must be properly labeled with patient first and last name, Social Security number/medical record number, specimen source, date of collection, and physician name. Cytology slides must have the patient’s first and last name legibly printed on the frosted end of the slide using a pencil.

All specimens must be accompanied with a requisition containing patient name, Social Security number/medical record number, date of birth, source of specimen, date of specimen collection, physician name and pertinent clinical information. In addition, all requisitions for PAP smears must contain the patient’s menstrual history including last menstrual period (LMP).
Any unlabeled/mislabeled slide or specimen, regardless of whether or not its cardboard slide mailer is labeled, will be considered an improperly identified specimen (specimen identification error). No unlabeled or mislabeled slide/specimen will be processed. Because the specimen may not be re-collectable, the specimen is eligible for re-identification. The originating physician or responsible designee must identify and properly label the smears or specimen for subsequent resubmission for cytological evaluation.

For interpretation or technical assistance, please call:
You Jun (June) Shen, MD, Pathologist (757) 395-6160
Audrey E. Steck, MD, Pathologist (757) 259-3885
Patricia Bassett, Manager (757) 388-3295

Hematology
Hematology services provided include comprehensive testing in the areas of hematology, coagulation and fluid analysis. Specialized procedures including bone marrow analysis, coagulation factor assays, thrombotic risk panels, PCR testing and gene rearrangement studies are available on request.

For information or technical assistance, please call:
Diane Washburn, Clinical Specialist (757) 388-3570
R. Lawrence Smith, MD, Pathologist (757) 481-1159
H. Raymond Tahhan, MD, Pathologist (757) 388-3221

Histopathology (Anatomical Pathology)
Anatomic Pathology services include diagnostic histology, histochemical and immunohistochemical studies, using the latest in diagnostic equipment. Pathologists are available for consultation 24 hours a day. Copies of the pathologist call schedule are available through the clinical laboratories as well as the hospital switchboard, administration and the Operating Room.

Specimens for histologic exams must be received in the proper containers, in most cases containing 10 percent formalin. Please submit a supply request form by fax to our supply center at (757) 965-0044 to order these containers as needed. Supplies are usually delivered the next business day, however please allow 48 hours for delivery.

For interpretation or technical assistance, please call:
Dennis Rowley, MD, Pathologist (757) 388-2137
Valerio M. Genta, MD, Pathologist, FACB (757) 481-1159
Patricia Bassett (757) 388-3219

Flow Cytometry
Services include basic leukemia panels and immunophenotyping as well as more sophisticated panels for undifferentiated lesions or lesions difficult to classify using cytochemical studies. Bone marrow, peripheral blood and body fluids can all be examined. If desired, lymph nodes and tissues may also be phenotyped. Studies available include:

- CD4
- CD4/CD8 (with absolute numbers)
CD34 quantitation for stem cell analysis
- ALL/AML
- Lymphoma
- Multiple myeloma
- T- and B- cell studies
- Myelodysplastic/myeloproliferative neoplasm

Please call Courier Services at (757) 965-0040 or toll-free at (866) 662-0546 to arrange for a pick-up. Testing is not available on weekends or holidays.

Refer to individual tests in the Alphabetical Test Listing chapter of this manual for additional collection information (i.e. CD4/CD8, CD4 only (without CD8), Helper/Suppressor Ratio, T. - and B. - Cell Panel, Flow Cytometry, Flow Cytometry-Bone Marrow, Flow Cytometry-CSF, Flow Cytometry-Peripheral Blood, Flow Cytometry-Pleural Fluid, Flow Cytometry-Synovial Fluid.

Immunohistochemistry

Our services include performing immunohistochemical staining and in-situ hybridization for diagnostic and prognostic purposes on various specimen types. An extensive menu of antibodies is available to allow for assessment of tumor differentiation and histogenic origin, as well as numerous prognostic markers. Our laboratory has eight automated immunostaining instruments to allow for high volume and rapid turnaround times. Specialties of the lab include characterization of tissue to evaluate for malignant and non-malignant disorders. This includes antibodies available to characterize:

- Breast lesions including hormone receptor expression (HER2/NEU, ER/PR)
- Epithelial malignancies
- Endocrine disorders/lesions
- Gastrointestinal system
- Gynecologic tumors
- Hematopoietic disorders
- Liver (including full panel of special stains)
- Melanocytic lesions
- Muscle disorders
- Soft tissue lesions

Immunohistochemistry stains are performed on formalin fixed paraffin embedded tissue samples, cytology smears, monolayer and touch preparations. In addition, the Immunohistochemistry Lab performs routine and manual special stains, cytochemistry stains and Direct Immunofluorescence. Specimens for immunofluorescence must be submitted fresh in Michel’s transport media.

For technical assistance:

Immunohistochemistry Lab (757)388-3219
Microbiology
Provides full service daily, seven days a week, for all routine and non-routine cultures.

Bacteriology Culture Test Results
In most cases, no more than two predominating organisms will be identified in any single culture. More than two organisms usually represent contamination with resident flora, and a repeat culture should be submitted. All urine cultures are quantitatively cultured to provide the physician with the actual number of organisms per ml of urine. All routine cultures will be semi-quantitated, as follows:

Very few – the organism grew in the broth but not on agar media. (Less than 10 colonies in the primary inoculum on the agar media will also be reported as very few).

Few – greater than 10 colonies grew in the primary inoculum area of the agar plate, but less than 10 colonies grew in the second section.

Moderate – growth occurred in the primary inoculum and the second section of the agar plate, but less than 10 colonies grew in the third section.

Many – growth occurred in the primary, secondary, and greater than 10 colonies grew in the third section.

Preliminary reports are generated on most cultures within 24 hours. Updated preliminary reports are generated whenever new or additional information becomes available.

For interpretation or technical assistance, please call:
Kathy Judge, MT (ASCP), Clinical Specialist (757) 388-3562
Valerio M. Genta, MD, Pathologist, FACB (757) 481-1159
Stephanie Spingarn, MD, Pathologist (757) 388-3221

Molecular Diagnostics
The Molecular diagnostics laboratory offers testing in areas of microbiology, genetic disease and oncology. State of the art equipment is employed and techniques including Real time PCR and DNA sequencing are used for Nucleic acid (DNA and RNA) testing. As specimen collection and transport requirements are very stringent and vary for different tests and samples, please refer to the alphabetical test listing at the end of this guide.

For technical assistance with molecular diagnostics, please call:
Suhail Nasim, MD, Pathologist (757) 388-3488
Tabetha Sundin, Ph.D., Clinical Specialist (757) 388-2153

Serology
Serology offers an extensive testing menu including immunofluorescence tests, serological tests for syphilis, as well as various EIA, HPV and ELISA assays that detect antibodies to infectious agents. Testing is also done for autoantibodies such as those found in autoimmune disorders. We also offer nucleic acid amplification tests, for both Chlamydia and GC.

For interpretation or technical assistance, please call:
Valerio M. Genta, MD, Pathologist, FACB (757) 481-1159
Transfusion Services
The following tests are available for commercial accounts:

- ABO and Rh
- Indirect Antiglobulin Test (IAT), Indirect Coombs Test or Antibody Screen
- Direct Antiglobulin Test (DAT) or Direct Coombs Test
- Type and Screen (T&S) includes ABO, Rh and IAT
- Antibody Identification*
- Antibody Titers*
- Eluates*

A 6 ml pink top tube (EDTA tube) is required (*additional tubes may be required for workups). Specimens for pre-surgical patients or outpatient transfusions will not be accepted when collected in the physician’s office due to strict collection and patient ID requirements. For results and service questions, please call Client Services at (757) 388-3621.

For interpretation or technical assistance, please call:
Noel Janolino, Team Coordinator (757) 388-2931
H. Raymond Tahhan, MD, Pathologist (757) 388-2268

Transplant Immunology
The Transplant Immunology Laboratory (TIL) is accredited by the American Society for Histocompatibility and Immunogenetics (ASHI). The TIL provides histocompatibility services for the Renal, Heart, and Lung/Heart-Lung Transplant Programs as well as HLA typing and HLA antibody screening services for bone marrow transplantation, disease associations, and HLA-typed blood product support. The TIL provides services Monday through Friday from 8:30 a.m. and 5:30 p.m.

Diagnostic services include:
- HLA ABC typing
- HLA DR/DQ typing
- HLA Antibody Screening

HLA ABC typing is routinely performed using a serology-based method. HLA DR/DQ typing is routinely performed by a low-resolution PCR-SSP DNA-based technology. When appropriate, HLA ABC typing is routinely performed using a serology-based method. HLA DR/DQ typing is routinely performed by a low-resolution PCR-SSP DNA-based technology. When appropriate, confirmatory low resolution PCR-SSP HLA A* B* Cw* testing and high resolution HLA DRB1* testing are used to supplement or confirm the serology-based test results at no additional charge to the patient.

The validity of HLA typing and antibody screening results could be influenced by several factors such as WBC count, recent blood transfusion history, current medications, patient diagnosis and sample type or quality. Please contact Client Services at (757) 388-3621 to answer questions about sample requirements, to schedule testing, and to arrange specimen pickup. Please refer to the “HLA General Information” and
HLA testing sections of the Alphabetical Test Listing section for specific collection instructions and indications for testing.