

## Professional Pathology Services

Sentara Reference Laboratory contracts with Pathology Sciences Medical Group (PSMG) and General Hospital Pathologists, Ltd. (GHPL) to provide professional pathology services for our patients. On this and the following page, 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: 757/388-2137

### **Mary L. Blumberg, M.D. (PSMG)**

Board-certified by American Board of Pathology, American Board of Internal Medicine and National Board of Medical Examiners.  
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. Site Director, Sentara Obici Hospital  
Phone: 757/934-4850

### **Valerio M. Genta, M.D. (GHP)**

Board-certified in Anatomic and Clinical Pathology and Medical Biology.  
**Special Interests:** Dermatopathology, Gastrointestinal, Breast Pathology, Infectious Diseases and QC/Data Analysis.  
Phone: 757/395-6255

### **Jimmy W. Green, M.D. (PSMG)**

Board-certified in combined Anatomic and Clinical Pathology and in Forensic Pathology.  
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

### **Robert T. Pu, M.D., Ph.D., FCAP (PSMG)**

Board-certified in Anatomic Pathology with added expertise in Cytopathology.  
Phone: 757/388-0133

### **Michelle Roulet, M.D. (PSMG)**

Board-certified in Anatomic and Clinical Pathology and Hematopathology.  
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.  
Phone: 757/388-2135

**Denise Ross, M.D. (GHP)**

Board-certified in Anatomic and Clinical Pathology, Medical Examiner, Blood Banking, and Cytopathology. Site Director, Sentara Bayside Hospital

**Special Interests:** Surgical Pathology, Cytopathology and Transfusion Medicine.

Phone: 757/363-6180

**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.

Phone: 757/395-8052

**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; subspecialty, Hematopathology, added areas of expertise in Flow Cytometry and coagulation.

Phone: 757/388-2130

**R. Lawrence Smith, M.D. (GHP)**

Board-certified in Anatomic and Clinical Pathology and Cytopathology.

**Special interests:** Surgical Pathology, Cytopathology and Transfusion Medicine.

Phone: 757/695-8889

**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: 757/259-6686

**Stephanie Spingarn, M.D. (PSMG)**

Director of Clinical Pathology

Board-certified in Anatomic and Clinical Pathology and Microbiology, 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: 757/388-2136

**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: 757/259-6685

**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 and Transfusion Medicine at SVBGH. Board-certified in Anatomic and Clinical Pathology.

Phone: 757/395-8052

**Dean A. Troyer, M.D. (PSMG)**

Board-certified in Anatomic Pathology and Clinical Pathology with added expertise in 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

## 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 1-800-748-7488 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) 395-6975

Jennifer Winters, Ph.D., Clinical Cytogeneticist	(757) 395-6976
Kim Behm, HT (ASCP), Manager	(757) 395-6975
Kathie Early, CLSp (CG), Lead Technologist	
Lisa Davenport, CLSp (CG), Lead Technologist	

### 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 cytology or women's health 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
Elaine Gatdula, Team Coordinator	(757) 388-3265

### **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
John Coleman, TC	(757) 388-5909

### **Immunodiagnosis/DNA Analysis**

- ◆ Service is provided Monday-Friday, 8 a.m.-5 p.m. and includes:
- ◆ Flow cytometry
- ◆ Diagnostic immunohistochemistry
- ◆ DNA ploidy and proliferative index (Ki-67) by image analysis and flow cytometry
- ◆ In Situ Hybridization for HPV
- ◆ FISH – performed on urine and breast biopsy

### **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/CD8 (with absolute numbers)
- ◆ ALL/AML
- ◆ Lymphoma
- ◆ Multiple myeloma
- ◆ T- and B- cell studies
- ◆ DNA Ploidy analysis

Specimens collected on Fridays must be received in the laboratory by noon. 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**

Services include diagnostic testing on both frozen and paraffin embedded tissue. A wide array of differential panels may be requested. Specialties of the lab include:

- ◆ Estrogen/progesterone and breast receptor studies (including Ki-67 proliferative index)
- ◆ Epithelial panels to determine site of origin
- ◆ Lymphoma panels
- ◆ Bone marrow for leukemia
- ◆ Infectious agents: viral, Helicobacter pylori, Pneumocystis carinii, and HPV
- ◆ Undifferentiated tumors unreactive in paraffin
- ◆ Immunofluorescence markers on nerve, heart and skin biopsies
- ◆ HER 2/Neu breast marker

Formalin fixed, B-5 fixed, or Bouin's fixed paraffin-embedded specimens, frozen tissue, cytopins, or touch preps may be submitted for immunohistochemical staining. Detailed procedures and supplies for specimen collection, storage, and transport are available upon request by calling Client Services at (757) 388-1976.

### **Image Analysis**

Services include DNA ploidy and proliferative index by Ki-67 immunochemistry.

The ideal specimen submitted for DNA ploidy by image analysis consists of freshly prepared scrapes. They are recommended for the quickest turnaround time and for optimal results.

DNA analysis is available on paraffin blocks as well, however, an increased time will result (due to special processing of these specimens).

Detailed procedures to prepare scrapes and paraffin specimens for image analysis are available upon request by calling Client Services at (757) 388-3621. Specimen collection packets will be provided free of charge along with training in collection techniques.

For interpretation or technical assistance, please call:

H. Raymond Tahhan, MD, Pathologist

(757) 388-3221

### **Microbiology**

Staffed to provide full service daily, 7 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 and techniques including Real time PCR, DNA sequencing and DNA chip 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

Mary-Margaret Fisher, Clinical Specialist

(757) 388-2221

### **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:

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

### **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:

Carrie Mergenov, Clinical Specialist

(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.