

## **CURRICULUM VITAE**

### **RON B. SCHIFMAN, M.D.**

**BORN** June 21, 1951, Kansas City, MO.

#### **EDUCATION**

1969-1973 University of Kansas, Lawrence, KS.  
1973 B.A., Biology  
1973-1976 University of Kansas School of Medicine, Kansas City, KS  
1976 M.D.

#### **MAJOR FIELDS**

Clinical Pathology  
Medical Microbiology  
Laboratory Management  
Quality Improvement

#### **LICENSURE AND BOARD CERTIFICATION**

1980 Arizona State Medical License  
1981 Diplomate in Clinical Pathology, American Board of Pathology  
1981 Diplomate in Medical Microbiology, American Board of Pathology

#### **EMPLOYMENT**

##### **University of Arizona, College of Medicine, Tucson**

1977-1979 Resident, Department of Pathology.  
1980 Fellow in Medical Microbiology, Department of Pathology  
1981-1987 Assistant Professor of Pathology  
1987-present Associate Professor of Pathology

##### **Veterans Administration Medical Center, Tucson AZ**

1981-1999 Program Director, Clinical Pathology  
1999 - present Chief, Diagnostics Service Line

#### **MEDICAL AND SCIENTIFIC SOCIETY MEMBERSHIP**

College of American Pathologists  
American Society for Microbiology  
American Association for Clinical Chemistry

Academy of clinical Laboratory Physicians and Scientists

## HONORS

1973 Phi Beta Kappa, University of Kansas, Lawrence, KS.

## GRANTS AND AWARDS

**1980 - 1984** Principal Investigator, American National Red Cross, \_RBC zinc protoporphyrin to screen blood donors for iron depletion and anemia.\_; **\$91,700.**

**1982** Principal Investigator, Biomedical Research Support Grant #S07RR05675, Division of Research Resources, National Institutes of Health, \_RBC zinc protoporphyrin in pregnancy.\_; **\$5,800.**

**1982 - 1983** Principal Investigator, Veteran Administration Research Advisory Group Grant, \_RBC zinc protoporphyrin in neoplastic disease.\_; **\$22,400.**

**1987 - 1988** Co-Investigator, New Mexico Research and Development institute, Project #2-75-5633 \_Bacterial susceptibility testing by bioluminescence assay of adenosine triphosphate.\_ Phase I II, & III; **\$591,000.**

**1988 - 1990** Principal Investigator, American Red Cross \_The significance of anti-HBc alone in blood donors evaluated by serologic response to hepatitis B vaccine.\_; **\$38,750.**

**1990 - 1992** Principal Investigator, Veterans Administration Merit Review HSR&D \_Automated, Laboratory-based Monitoring of Antibiotic Usage\_ **\$44,500.**

**1990 - 1991** Principal Investigator, Medi-Flex Hospital Products, Inc. \_Comparative analysis of skin preparation methods for blood cultures.\_ **\$10,000.**

**1994 - 1995**, Project leader, Veterans Affairs Hybrid Open Systems Technology Project. \_Information acquisition and management for point of care testing\_ **\$117,350.**

## Teaching

### University of Arizona College of Medicine

1978-present Pathology 801 General and Systemic Pathology

1981-present Pathology 810B Clinical Pathology Clerkship (Director of VAH rotation).

1981-present Resident training in Clinical Pathology, VA Medical Center.

### University of Arizona School of Health Related Professions

1979 Pathology for Dental Hygienists  
1980 Social Perspectives in Health Science  
1981-present Medical Technology

### **Invited Lectures and Courses, Arizona**

1979-1996 Arizona State Society for Medical Technology  
1983 Center for Continued Learning, Phoenix, Az.  
1983 Arizona Nursing Association  
1984 Arizona Society of Pathology  
1984 American Red Cross Directors Blood Services, Western Region  
1984-85 American Society for Microbiology, Arizona State Meeting  
1987-88 Arizona Department of Health Services, Division of State Laboratory Services  
1991 Association for Practitioners in Infection Control  
1992 Key note speaker, University of AZ Medical Technology Graduation

### **Invited Presentations, Regional and National**

College of American Pathologists, National Meeting, 1986 - present  
American Society for Microbiology National Meeting, 1986 - present  
American Society of Clinical Pathologists, 1984 - present  
American Society for Medical Technology, Annual Meeting, 1983, 1985  
New York State Society of Pathologists, 1987, 1989  
Kentucky Association for Microbiology, 1989  
Southern California Association for Microbiology, 1989  
Midwest Association for Clinical Microbiology, 1990  
Southwestern Association of Clinical Microbiology, 1990  
Northeastern Association for Microbiology and Infectious Disease, 1990  
American Society of Clinical Pathologists Regional programs, 1987-present  
Quebec Association of Medical Microbiologists, 1995  
American Association of Pathologists Assistants, 1995  
South Central Association for Clinical Microbiology, 1995  
Frontiers in Laboratory Practice Research, Centers for Disease Control Institute, 1995  
Clinical Laboratory Management Association, Cactus Chapter, Las Vegas, NV, 1995  
CAP Foundation Conference: Patient-Centered Pathology Practice: Outcomes and Accountability, St. Petersburg, Fl. 1997  
Clinical Laboratory Management Association National Meeting, Philadelphia, PA. August 1998  
Centers for Disease Control. Statistical and Quantitative Methods Used for Screening and Diagnostic Tests, Atlanta, GA, 1999

### **SERVICE**

#### **College of Medicine**

1981-present Coordinator, Pathology Electives

1983 Interviewer for Admissions Committee  
1995-present Electives Subcommittee

### **Tucson Veterans Administration Hospital**

1981-82 Member, Blood Utilization Review Committee  
1981-89 Member, Laboratory Utilization Committee  
1987-89 Chairman, Laboratory Utilization Committee  
1981-present Member, Infection Control Committee  
1983-86 Chairman, Antibiotic Utilization Review Committee  
1985-96 Member, Research Committee (Chairman, 1987)  
1987-1992 Member, Quality Assurance Committee  
1993-95 Member, Total Quality Management Steering Committee  
1994-present Chairman, Informatics Advisory Board  
1994-5 Member, Committee Restructuring Task Force  
1995-6 Member, Information, Education Restructuring Taskforce  
1999-present Member, Resources Borad  
1999-present Member, Planning Committee  
1999-present Member, Medical Executive Committee  
1999-present Member, Academic Affiliation Partnership Committee

### **VISN 18 Region**

1995-present Member, Diagnostic workgroup subcommittee  
2000-present Chair, Clinical Management and Diagnostic Support Workgroup  
2000-present Member, Clinical Executive Committee

### **Tucson**

1981-82 Member, Blood Resources Committee

### **National**

1985-89 Consultant, Department of Health & Human Services, Division of Maternal and Child Health.  
1985-present Member, Quality Practices Committee, College of American Pathologists (Vice Chairman, 1996-7)  
1986 Member, Laboratory Computer Advisory Group, Veterans Administration  
1987 Consultant, Centers for Disease Control NHANES III Survey Program  
1987-1990 Member, Council on Microbiology, American Society of Clinical Pathologists.  
1990-1993 Chairman, Council on Microbiology, American Society of Clinical Pathologists.  
1989 Member, Ad hoc Expert Panel, FDA Center for Food Safety and Applied Nutrition.  
1990-95 Vice Chairman - College of American Pathologists, Centers for Disease Control Joint Committee for Outcomes Research.  
1991-present Advisor, National Committee for Clinical Laboratory Standards, Protoporphyrin Standardization  
1994 Member, Expert Panel on Competency Characteristics, Academy of Clinical Laboratory Physicians and Scientists

- 1994-96 Member, United States Medical Licensing Examination (USMLE) Step 1 Test Material Development Committee for Pathology, National Board of Medical Examiners
- 1994-96 Member, Pathology Test Committee, National Board of Medical Examiners
- 1996 Member, Hematopoietic & Lymphoreticular Pool Review Task Force, USMLE 1, National Board of Medical Examiners

#### CLINICAL AND ADMINISTRATIVE

- 1981-1999 Medical Staff Member, Tucson Veterans Administration Hospital. Staff Pathologist with administrative and technical responsibility for Clinical Pathology, including Clinical Chemistry, Clinical Microbiology, and informatics
- 1999-present Chief, Diagnostics Service Line. (Pathology, Laboratory Medicine, Radiology and Nuclear Medicine)
- 1981-1995 Medical Staff Member, University Medical Center Hospital. Primary service: Clinical

#### PUBLICATIONS

##### Journal articles

Finley PR, **Schifman RB**, Williams JR, and Lichti DA: Cholesterol in high density lipoproteins: Use of Mg/dextran sulfate in its enzymic measurement. *Clin Chem* 24:931-33, 1979.

**Schifman RB**, and Finley PR: Measurement of near-normal concentrations of erythrocyte protoporphyrin with the hematofluorometer: Influence of plasma on front surface illumination assay. *Clin Chem* 27:153-176, 1981.

**Schifman RB**, Brumbaugh P, Grover D, Finley PR, and Harrow EJ: A cellulose acetate electrophoretic procedure evaluated for quantitation of high-density lipoprotein cholesterol. *Clin Chem* 27:175-178, 1981.

**Schifman RB**, and Ryan KR: Rapid automated identification of gram negative bacilli from blood cultures using the automicrobic (AMS) system. *J Clin Microbiol* 15:260-264, 1982.

**Schifman RB**, Rivers S, Finley PR and Thies C: RBC zinc protoporphyrin to screen blood donors for iron deficiency anemia. *JAMA* 248:2012-2015, 1982.

**Schifman RB** and Ryan KJ: *Neisseria lactamica* septicemia in an immunocompromised patient. *J Clin Microbiol* 17:934-935, 1983.

**Schifman RB**, Garewal H and Shillington D: Reticulocytopenic, Coombs positive anemia induced by procainamide. *Am J Clin Path* 80:66-68, 1983.

**Schifman RB**, Wieden M, Brooker J, et al: Bacteriuria screening by direct bioluminescence assay of ATP. *J Clin Microbiol* 20:644-648, 1984.

**Schifman RB** and Palmer RA: Surveillance of nosocomial infections by computer analysis of positive culture rates. *J Clin Microbiol* 21:493-495, 1985.

**Schifman RB**, Rivers SL and Delduca M: Predonation hematocrit measurement by whole blood electrical conductivity assay. *Transfusion* 25:251-253, 1985.

Duncan B, **Schifman RB**, Corrigan JJ, and Schaefer C: Iron and the exclusively breast-fed infant from birth to six months. *J Ped Gastroenterol* 4:421-425, 1985.

Garewal HS, Ahmann FR, **Schifman RB**, Celniker A: ATP assay: Ability to distinguish cytostatic from cytotoxic anticancer drug effects. *JCN* 77:1039-45, 1986.

Ampel NM, Ryan KJ, Carry PJ, Wieden MA and **Schifman RB**: Fungemia due to *Coccidiomycoses immitis*. An analysis of sixteen episodes in fifteen patients and a review of the literature. *Medicine* 65:312-321, 1986.

**Schifman RB**, Rivers SL: Red blood cell zinc protoporphyrin to evaluate anemia risk in deferred blood donors. *Am J Clin Path* 87:511-514, 1987

Ahmann FR and **Schifman RB**: Prospective comparison between serum monoclonal prostate specific antigen (PSA) and acid phosphatase measurements in metastatic prostate cancer. *J. Urol.* 137:431-434, 1987

Habib MP, **Schifman RB**, Shon BY, Fiastro JF, Campbell SC: Evaluation of whole blood theophylline enzyme immunochemistry assay. *Chest* 92:129-131, 1987

Ahmann FR, Garewal HS, **Schifman RB**, Celniker A, Rodney, S: Intra-cellular adenosine triphosphate (ATP) as a measure of human tumor cell viability and drug modulated growth. *In Vitro* 23:474-480, 1987

**Schifman RB**, Thomasson JE and Evers JM: Red blood cell zinc protoporphyrin testing for iron deficiency anemia in pregnancy. *Am J Obstet Gynecol* 157:304-307, 1987

Draeos M, Morgan T, **Schifman RB**, Sampliner RE. The significance of isolated anti-HBc determined by immune response to hepatitis B vaccination. *JAMA* 258:1193-1195, 1987.

**Schifman RB**, Ahmann FR, Elvick A, Ahmann M, Coulis K, Brawer MK: Analytical and physiological characteristics of serum prostate specific antigen and prostatic acid phosphatase compared *Clin Chem* 1987;33:2086-8.

Brawer MK, **Schifman RB**, Ahmann FR, et al. The effect of digital rectal examination on serum levels of prostatic specific antigen. *Arch Path Lab Med* 1988;112:1110-1112.

Perlman DM, Ampel NM, **Schifman RB**, et al. Persistent *Campylobacter jejuni* infections in patients infected with human immunodeficiency virus (HIV). *Ann Intern Med* 1988;108:540-46.

Van Wyck DB, **Schifman RB**, Stivelman JC, Ruiz J, Martin D. Rapid sample preparation for determination of iron in tissue by closed-vessel digestion and microwave energy. *Clin Chem* 1988;34:1128-1130.

Brawer, MK, Rennels MA, Nagle RB, **Schifman RB**, Gaines JA. Serum prostate specific antigen and prostate pathology in men undergoing simple prostatectomy. *Am J Clin Path* 1989; 92:760-65.

Thacker, WL, Benson RF, **Schifman RB**, Pugh E, Steigerewalt AG, Mayberry WR, Brenner DJ, Wilkinson HW. *Legionella tucsonensis* sp. nov. isolated from a renal transplant recipient. *J Clin Microbiol* 1989; 27:1831-34.

**Schifman RB**. Quality Assurance Goals in Clinical Pathology. *Arch Path Lab Med* 1990;114:1140-4.

Mooradian AD, Reed RL, Osterweil D, **Schifman RB**, Scuderi P. Decreased serum triiodothyronine is associated with increased concentrations of tumor necrosis factor. *J Clin Endocrinol Metab* 1990; 71:1239-42.

Huang SKS, Graham AR, Lee MA, Ring ME, Gorman GD, **Schifman RB**. Comparison of catheter ablation using radiofrequency versus direct current energy: Biophysical, electrophysiologic and pathologic considerations. *J Am Coll Cardiol* 1991;18:1091-7.

**Schifman RB**, Strand C, Braun E, et al. Solitary blood cultures as a quality assurance indicator. *Quality Assurance and Utilization Review* 1991;4:132-137.

Howanitz PJ, Hoffman GG, **Schifman, RB**, Zarbo RJ, Steindel SJ, Walker K. A nationwide quality assurance program can describe standards for the practice of pathology and laboratory medicine. *Quality Assurance in Health Care* 1992;4:245-256.

**Schifman RB**, Pindur A. Effect of skin preparation method on blood culture contamination. *Am J Clin Path* 1993;99:536-538.

Verdi, CJ, Ahmann FR, **Schifman RB**, Elvick AL Ahmann ME, Marx PC. Comparative evaluation of serum CA 195 and carcinoembryonic antigen in metastatic carcinoma. *Cancer* 1993;71:3625-3632.

**Schifman, RB**, Rivers, SL, Sampliner, RE, Krammes, J. Isolated antibody to hepatitis b core antigen in blood donors evaluated by serologic response to hepatitis B vaccine. *Arch Intern Med* 1993;153:2261-7.

**Schifman, RB**, Howanitz P. Nosocomial Infections: A College of American Pathologists' Q-Probes Study in 512 North American Institutions. *Arch Pathol Lab Med* 1994;118:115-119.

Howanitz PH, **Schifman RB**. Inpatient phlebotomy practices: A college of American Pathologists Q-Probes quality improvement study of 2,351,643 phlebotomy requests *Arch Pathol Lab Med* 1994;118:601-605.

Howanitz PH, **Schifman RB**. Phlebotomist's safety practices: A college of American Pathologists Q-Probes quality improvement study. *Arch Pathol Lab Med* 1994;118:957-962

**Schifman RB**. Quality assessment and improvement. *Clinics in Lab Med* 1995;15:437-446.

Boone DJ, Steindel SD, Herron RM, Howanitz, Bachner P, Meier FA, **Schifman RB**, PJ, Zarbo RJ. Transfusion medicine monitoring practices. A study of the College of American Pathologists/Centers for Disease Control and Prevention Outcomes Working Group. *Arch Pathol Lab Med* 1995;119:999-1006.

Zarbo RJ, Schmidt WA, Bachner P, Howanitz, PJ, Meier FA, **Schifman RB**, Boone DJ, Herron RM. Indications and immediate patient outcomes of pathology intraoperative consultations: A College of American Pathologists/Centers for Disease Control and Prevention Outcomes Working Group study of 9,164 consultations from 472 institutions. *Arch Pathol Lab Med* 1996;120:19-25.

Valenstein P., **Schifman, RB**. Duplicate laboratory orders. A College of American Pathologists Q-Probes study of thyrotropin requests in 502 institutions. *Arch. Pathol. Lab. Med.* 1996;120:917-21.

**Schifman, RB**., Bachner, P, Howanitz, PJ. Blood Culture Quality Improvement: A College of American Pathologists Q-Probes Study Involving 909 Institutions and 289,572 Blood Culture Sets. *Arch. Pathol. Lab. Med.* 1996; 120:999-1002.

**Schifman, RB**, Howanitz, PJ, Zarbo RJ, Q-Probes: A College of American Pathologists Benchmarking Program for Quality Management in Pathology and Laboratory Medicine. *Advances in Pathology* 1996;9:83-120

**Schifman, RB**, Pindur A, Bryan JA. Laboratory practices for reporting bacterial susceptibility tests that affect antibiotic therapy. *Arch. Pathol. Lab. Med* 1997; 121:1168-70.

**Schifman, RB**, Strand C, Meier, F, Howanitz, P. Blood Culture Contamination: A College of American Pathologists Q-Probes Study Involving 640 Institutions and 497,134 Specimens from Adult Patients *Arch. Pathol. Lab. Med* 1998; 122:216-221.

McLaughlin WJ, **Schifman, RB**, Ryan KJ, Manriquez GM, Bhattacharyya AK, Dunn BE, Weinstein RS. Telemicrobiology: Feasibility Study. *Telemedicine Journal* 1998;4:7-11.

**Schifman RB**, Valenstein P, Meier, F, Howanitz, PJ. Laboratory practices in diagnostic mycobacteriology affecting the timeliness of therapy: a College of American pathologists Q-probes study involving 534 institutions (in preparation)

Novis DA, Dale JC, **Schifman RB**, Ruby SG, Walsh MK. Solitary blood cultures: a College of American Pathologists Q-probes study of 132,778 blood culture sets in 333 small hospitals. *Arch Pathol Lab Med*. 2001;125:1290-4.

Zarbo RJ, Jones BA, Friedberg RC, Valenstein PN, Renner SW, **Schifman RB**, Walsh MK, Howanitz PJ. Q-tracks: a College of American Pathologists program of continuous laboratory monitoring and longitudinal tracking. *Arch Pathol Lab Med* 2002 Sep;126(9):1036-44

## Abstracts

Huestis DW and **Schifman RB**: Simultaneous preparation of cryoprecipitate and doubly concentrated plasma. *Transfusion* 18:628, 1978.

**Schifman RB**, Rivers SL: Value of serum ferritin, percent iron saturation and red cell zinc protoporphyrin measurements in evolving iron deficiency anemia. *Clin Chem* 27:113, 1981.

**Schifman RB** and Rivers SL: Predicting future iron deficiency anemia in blood donors. *Transfusion* 21:633, 1981.

**Schifman RB**: Red cell protoporphyrin: An alternative to serum ferritin determinations for assessing iron depletion. *Clin Chem* 28:1626, 1983.

Sampliner RE, **Schifman RB** and Bonus M: Hepatitis B and hospital personnel - Overrated risk of exposure? *Gastroenterol*. 84:1394, 1983.

Duncan B, **Schifman RB**, Corrigan JJ and Schaefer C: Serum ferritin in exclusively breast-fed infants from birth to 6 months: Correlation with ZPP and Hb. *Ped Res* 17:186, 1983.

**Schifman RB**, Angel E, and Rivers S: Hemoglobin measurement in capillary blood with the hematofluorometer. *Clin Chem* 29:1284, 1983.

Pisut FM and **Schifman RB**: Contamination of small volume medication nebulizers: Implications for management. 23rd Interscience Conference on Antimicrobial Agents and Chemotherapy, 1983.

Karrer FM, Rhenman B, Buckley AR, **Schifman RB**, Steinbronn KK, and Putnam CW: Acute fulminant hepatic necrosis - A large animal model using liver resection and galactosamine, in Mechanisms of Hepatocyte Injury and Death, Falk Foundation Symposium #38, 1984.

**Schifman RB** and Palmer RA: Evaluation of laboratory based computerized surveillance system for monitoring nosocomial infections. ASCP/CAP Spring Meeting, 1984.

**Schifman RB**, Wieden M, Brooker J et al: Bacteriuria screening by direct bioluminescence assay. American Society for Microbiology National Meeting (84th), 1984.

**Schifman RB**, Rindone J, Finley PR: False positive digoxin results with renal failure; comparison of Aria II, TDx and Gammacoat immunoassays. *Clin Chem* 30:1013, 1984.

**Schifman RB** and Delduca M: Rapid, direct susceptibility testing of Enterobacteriaceae from blood cultures by bioluminescence measurement of ATP. 24th Interscience Conference on Antimicrobial Agents and Chemotherapy, 1984.

**Schifman RB** and Delduca M: Rapid susceptibility testing of *Enterobacteriaceae* by bioluminescence measurement of ATP. American Society for Microbiology National Meeting (85th), 1985.

**Schifman RB**, Morgan TR, Sampliner RE and Bonus M: Significance of anti-HBc alone as determined by hepatitis B vaccine challenge. American Society for Microbiology National Meeting (86th), 1986.

Kerrigan D and **Schifman RB**: Sensitivity of microscopy for detecting *Mycobacterium avium-intracellulare* in clinical specimens. ASCP/CAP Fall Meeting, 1986.

**Schifman RB**, Ahmann FR, Brawer MK, Elvick A, Ahmann M, Coulis K, Brawer MK: Analytical and physiological characteristics of serum prostate specific antigen compared to prostatic acid phosphatase compared *Clin Chem* 33:937, 1987

Perlman DM, Ampel NM, **Schifman RB**, Cohn DL, Wang W-L L, Blaser MJ. Persistent *Campylobacter jejuni* infection and emergence of erythromycin-resistance in patients infected with human immunodeficiency virus. 27th Interscience Conference on Antimicrobial Agents and Chemotherapy, 1987.

**Schifman RB**, Reid LA, Leonard PA, Gregg CT. Rapid susceptibility testing of Enterobacteriaceae: Bioluminescence and Abbott Advantage methods compared. 28th Interscience Conference on Antimicrobial Agents and Chemotherapy, 1988.

**Schifman, RB**. Solitary blood cultures. American Society for Microbiology National Meeting (89th), 1989.

Howanitz PJ, **Schifman RB**, Steindel S. A nationwide quality assurance program can describe practice of laboratory medicine. CDC meeting, Improving the quality of health management through clinician-laboratory teamwork. 1989

Howanitz PJ, Steindel SJ, **Schifman RB**, Detweiler G. Development and evaluation of a quality assurance program based on an interlaboratory comparison. *Clin Chem* 35:1160-1, 1989

**Schifman RB**. Comprehensive and concurrent surveillance of test utilization. *Am J Clin Pathol* 1989;92:539.

**Schifman RB**, Rivers SL, Sampliner RE. Significance of Anti-HBc Evaluated by Response to Hepatitis B Vaccine. American Society for Microbiology National Meeting (90th), 1990.

Wieden MA, **Schifman RB**, Anderson L, et al. Susceptibility Testing of Gram Negative Bacilli by Disk Diffusion, Avantage and Vitek AMS Methods Compared. American Society for Microbiology National Meeting (90th), 1990.

Pindur A., **Schifman RB**. Improved use of antimicrobial susceptibility tests by concurrent evaluation of antimicrobial therapy. American Society for Microbiology National Meeting (91th), 1991.

**Schifman RB**, Pindur A. Effect of skin preparation method on blood culture contamination. American Society for Microbiology National Meeting (91th), 1991.

Cervin JR, **Schifman RB**, Spark RP, Micksin MK. A Strategy for Improving Utilization of the Hepatitis A Virus IgM Antibody Test *Am J Clin Pathol* 1991;96:419.

**Schifman RB**, Meier F, Benbow, N. Inter-Institutional Assessment of the Quality of Expecterated Sputum Collection by Microscopic Examination. American Society for Microbiology National Meeting (92th), 1992.

Halliday BE, **Schifman RB**. Effect of phlebotomy team on the quality of blood culture American Society for Microbiology National Meeting (94th), 1994.

Howanitz PJ, **Schifman RB**. Inpatient phlebotomy practices in 683 institutions studied through Q-Probes. *Clin Chem* 40:1001,1994

**Schifman RB**, Meier F, Howanitz PJ Utilization of acute viral hepatitis A serology (IgM anti-HAV) evaluated by a College of American Pathologists Q-Probes study involving 625 institutions *Am J Clin Pathol*;102:553, 1994.

Ellerson DL, Johnston C, **Schifman, RB**. Effect of point of care testing on length of stay in the emergency department *Am J Clin Pathol* 1995 104:327.

**Schifman RB**, Valenstein P, Howanitz, PJ. Laboratory practices in diagnostic mycobacteriology that affect the timeliness of patient treatment: a College of American pathologists Q-probes study in 534 institutions. *Frontiers in Laboratory Practice Research*, Centers for Disease Control, October 1-3, 1995.

**Schifman RB**, Steindel, SJ, Howanitz PJ Quality of Telephone Support by Clinical Laboratories: A College of American Pathologists Q-Probes Study Involving 459 Institutions. *Am J Clin Pathol* 1996.

**Schifman RB**, James SH, Sadrzadeh SMH, Rose A, Dick S. Between-assay variation in false positive troponin-I measurements in patients on renal dialysis or with positive rheumatoid factor. *Clin Chem* 45:A145,1999

**Editorials**

**Schifman RB.** Phlebotomists at Risk, Mayo Clin Proc 1998;73:703-4.

## Books

**Schifman, RB:** Current Practices - Microbiology, Chapter 10, in *Laboratory Quality Assurance*, ed. Peter and Joan Howanitz, McGraw-Hill pub. August, 1986.

**Schifman, RB,** Section Editor, Microbiology/Immunology in *Laboratory Medicine: Test Selection and Interpretation*, ed. Peter Howanitz, pub. Churchill-Livingstone, New York & London, 1991. Chapters:

- 20: Blood and Bone Marrow
- 21: Eye, Ear, Nose and Throat
- 22: Lower Respiratory Tract Specimens
- 24: Urine
- 29: Serodiagnosis of Infectious Disease

**Schifman, RB:** Quality Assurance Practice in Medical Microbiology, in *Clinical Laboratory Medicine*, R. C. Tilton, Ph.D., editor C. V. Mosby publisher. 1993.

**Schifman, RB.** Quality Assurance Practice in *Clinical Microbiology Procedures Handbook*, American Society for Microbiology, Washington DC, ed Henry Isenberg, 1993.

**Schifman, RB:** Quality Assurance in Clinical Microbiology, in *Clinical Laboratory Medicine*, Kenneth D. McClatchey, M.D. editor, Williams and Wilkins Baltimore MD, 1994.

Sewell DL, **Schifman, RB,** Chapter 5. Quality Assurance: Quality Improvement, Quality Control, and Test Validation, in *Manual of Clinical Microbiology*, Fifth edition, 1995

David L. Sewell and **Schifman, RB.** Quality Assessment Monitors in *Essential Procedures in Clinical Microbiology*, American Society for Microbiology, Washington DC, ed Henry Isenberg, 1997

**Schifman, RB,** Cembrowski G, Wolk, D. Quality Management in Clinical Laboratory Management ed. Lynne S. Garcia American Society for Microbiology, Washington DC 2004

## JAMA Q&A section

**Schifman RB:** Whole blood v component blood products (discussion for Questions and Answers Department) *JAMA* 250: 2211, 1983

**Schifman RB** and Steinbronn: When to transfuse (discussion for Question and Answers Department) *JAMA* 255: 2081, 1986.

**Schifman RB** and Steinbronn KK: Estimating intraoperative blood loss: When to transfuse autologous units. (discussion for Question and Answers Department) *JAMA* 260:704, 1988.

## Letters

**Schifman RB**, Sampliner RE: Isolated antibody to hepatitis B core antigen and the immune response to hepatitis B vaccination (reply) *JAMA* 260:636, 1988.

**Schifman RB**: Anemias of pregnancy (reply) *Am J Obstet Gynec* 1989;161:258-9.

## Miscellaneous Publications

**Schifman RB**: \_HDL Cholesterol\_, ASCP Check Sample. Special Topics, 105:1978.

**Schifman RB**: Interpretation of tests section. Reply to question: When should a ferritin level test be ordered and what is its value? *Diagnostic Med* July/August p. 15, 1981.

**Schifman RB**: Laboratory Surveillance for Nosocomial Infection. *Laboratory Management* 23:53-56, 1985.

**Schifman RB**, Rindone J: Third generation cephalosporins. ASCP Tech Sample, 1:1985.

**Schifman RB**: Quality Assurance Goals in Microbiology: Current Trends and Future Directions. *Pathologist* 39:10-12, 1985.

**Schifman RB**: Hospitals can master infection control. *CAP TODAY*, March, 1987

**Schifman, RB**: Comparative interhospital antibiotic susceptibility results comparable. *CAP TODAY*, July, 1987.

**Schifman RB**: Infection control serves as QA model. *CAP TODAY*, October 1988.

**Schifman RB**, Surveillance for Nosocomial Infections: The Laboratory Component. ASCP Check Sample. Microbiology, 1989

**Schifman, RB**. Appropriateness of lab services reviewed. QA review (American Medical Association) 1990 2 (December):5-7.

**Schifman RB**: \_Management of Test Utilization\_, ASCP Check Sample. Special Topics, 1991.

Denton JS, **Schifman RB**. \_Cyanide poisoning\_ ASCP Check Sample. Forensic Pathology, 1994.

McLaughlin WJ, **Schifman RB**. ΔCryoglobulinemia associated with viral hepatitis C. ASCP Check Sample, Clinical Chemistry, 1997.

### **Q-Probes (College of American Pathologists)**

**Schifman RB**, Bachner, P. Solitary blood cultures. 1990

**Schifman RB**, Nosocomial infections. Critique 1990

**Schifman RB**, Bachner, P. Solitary blood cultures II. Critique 1991.

**Schifman RB**, Meier, F. Comparative interhospital antimicrobial susceptibility patterns. 1991

**Schifman RB**, Meier, F. Sputum Quality. 1991

Meier, F, **Schifman RB**, The INR and Monitoring of Oral Anticoagulation. 1992

**Schifman RB**, Howanitz PJ. Inpatient Phlebotomy. Critique, 1993.

**Schifman RB**, Meier, F. Viral hepatitis test utilization Critique 1993.

**Schifman RB**, Strand C. Blood culture contamination. Critique, 1994

**Schifman RB**, Valenstein P. Laboratory practices for diagnosis of tuberculosis, Critique 1994

Dale J. **Schifman RB**. Solitary blood cultures, small hospital, Critique 1995

**Schifman RB**, Steindel S. Quality of telephone responsiveness, Critique 1995

**Schifman, RB**, Dale, J. Critical value reporting, Critique 1997

**Schifman, RB**, Meier, F. Comparative interhospital antimicrobial susceptibility patterns 1998

### **Q-Tracks (College of American Pathologists)**

**Schifman RB, Meier, F.** Blood culture contamination 1999

#### **Conference Proceedings**

**Schifman RB** and Tammam AR: Part IV, Performance Assessment, in Quality Assurance in Office, Bedside and Home Testing, CAP Conference 1986, ed. Peter Howanitz, pub., College of American Pathologists, 1987.

**Schifman RB** Quality Assurance goals in Clinical Pathology, College of American Pathologists Special Topics Conference 1990

**Schifman, RB.** Quality Management of Pre- and Post-analytical Processes in Laboratory Medicine. 1995 Institute on Critical issues in health Laboratory Practice. Frontiers in Laboratory Practice Research.. pp.190-197.pub Center for Disease Control and Prevention, 1996.

### **OTHER PROFESSIONAL ACTIVITIES**

### **Editorial positions**

Editorial Board, Laboratory Medicine Abstract and Comment Newsletter, Churchill-Livingstone, 1990-1993.

### **Ad hoc Journal Reviewer**

*American Journal of Clinical Pathology*  
*Blood*  
*Clinical Chemistry*  
*Clinical Microbiology Reviews*  
*Diagnostic Microbiology and Infectious Diseases*  
*European J Clin Oncology*  
*Laboratory Med*  
*Mayo Clin Proc*  
*New England Journal of Medicine*

### **Board of Directors**

Biomedical Research Foundation of Southern Arizona, 1989-present.  
Hermosa Montessori Schools, Inc, 1990 to present