

# CURRICULUM VITAE

## Leona Bell Weston Ayers, M.D.

### ADDRESS:

Office: M352 Starling Loving Hall, 320 W 10<sup>th</sup> Avenue, Columbus, OH 43210  
Telephone: 614/293-8106, Pager: 614/730-6429, e-mail: [ayers.1@osu.edu](mailto:ayers.1@osu.edu)

### MEDICAL LICENSES:

North Carolina 15431 Date: 2/15/67  
Ohio 31502 Date: 6/05/67

### CERTIFICATION:

Diplomate, American Board of Pathology, Anatomical and Clinical Pathology, 1973.  
Diplomate, American Board of Forensic Examiners, 1996.  
Diplomate, American Board of Forensic Medicine, 1996.

### EDUCATION:

1969 - 1971 Resident, Clinical Pathology, The Ohio State University Hospitals, Columbus, Ohio.  
1968 - 1969 Resident, Mixed Anatomical and Clinical Pathology, Duke University Medical Center, Durham, North Carolina.  
1967 - 1968 Intern, Anatomical Pathology, Duke University Medical Center, Durham, North Carolina.  
1964 - 1967 M.D., Duke University School of Medicine, Durham, North Carolina.  
1962 - 1964 Master's Program\*, Anatomy and Physical Therapy, Duke University, Durham, North Carolina.  
1958 - 1962 B. S. Zoology, Duke University, Durham, North Carolina.

\* credits transferred to Duke University School of Medicine.

### PROFESSIONAL POSITIONS:

1997 - Professor, Department of Pathology and School of Allied Medical Professions, College of Medicine, The Ohio State University.  
1977 - 1997 Associate Professor, Department of Pathology, College of Medicine, The Ohio State University  
1977 - 1997 Associate Professor, School of Allied Medical Professions, College of Medicine, The Ohio State University  
1970 - Graduate School Advisor, M.S. Pathology, Department of Pathology, The Ohio State University.  
1971 - 1977 Assistant Professor, Department of Pathology, College of Medicine, The Ohio State University.  
1974 - 1977 Assistant Professor, School of Allied Medical Professions, College of Medicine, The Ohio State University  
1970 - 1971 Instructor, Department of Pathology, College of Medicine, The Ohio State University

**HOSPITAL PRIVILEGES:**

- 1999 - Consulting Medical Staff, Pathology, University Hospitals East, Columbus, Ohio.
- 1990 - Associate Attending Staff, Pathology, Arthur G. James Cancer Hospital and Solove Research Institute, The Ohio State University Medical Center, Columbus, Ohio.
- 1983 - Consulting Medical Staff, Pathology, Union County Memorial Hospital, Marysville, Ohio.
- 1971 - Attending Staff, Pathology, University Hospitals, The Ohio State University Medical Center, Columbus, Ohio.

**HONORS/AWARDS:**

- 1967 Top Woman Graduate, Senior Year 1967, The Lange Medical Publication Award for Outstanding Achievement, Duke University School of Medicine.
- 1982 Outstanding Microbiologist of Year, South Central Association for Clinical Microbiology.
- 1991 The Earline Kutscher Memorial Lectureship, The Texas Society for Clinical Microbiology.
- 1998 - 2000 Foundation Lecturer, Foundation for Microbiology Lectures Program (FML).

**MEMBERSHIP/SOCIETIES:**

- 1997 – 1999 American Association of Bioanalysts
- 1996 - American College of Forensic Examiners
- 1996 - American Association of University Women
- 1996 - Central Ohio Society of Pathologist (COSP)
- 1994 - 1995 Ohio Society of Pathologist, 1972-1978.
- 1993 - 1995 Academy of Medicine of Columbus and Franklin County, Ohio State Medical Association.
- 1993 - American Medical Association (AMA), 1971-1975.
- 1985 - 1994 Ohio Academy of Science, WISEMCO (Women in Science, Engineering and Mathematics Consortium of Ohio)
- 1980 - College of American Pathologists (CAP), Fellow
- 1977 - 1985 American Medical Women's Association, Chapter 12, Vice President 1979, President 1980.
- 1975 - American Society for Clinical Pathologists (ASCP), Fellow member
- 1973 - 1981 South Central Association Clinical Microbiology (SCACM), Area Director-Central Ohio 1973-1975, Board of Directors 1978 -1981
- 1972 - American Society for Microbiology (ASM)
- 1971 - The Ohio State University Hospitals Medical Society

**ADMINISTRATIVE RESPONSIBILITIES/ Service to Academic and Professional Organizations**

**NATIONAL:**

- 1995 - Member, AIDS Malignancy Steering Committee, NCI, NIH
- 1992 - 1996 Member, Microbiology Test Committee, American Board of Pathology, Lincoln, Center, 5401 West Kennedy Blvd., Tampa, Florida.
- 1980 - 1986 Chairman 1981-1985, Council on Microbiology, Commission on Continuing Education, American Society for Clinical Pathologists (ASCP).
- 1983 - 1988 Member, Microbiology Resource Committee, College of American Pathologists
- 1972 - 1982 Referee, College of American Pathologists (CAP): National Mycology

- Proficiency Survey 1972-1982, Bacteriology Survey, 1982-1988, Parasitology Survey 1987-1991.
- 1977 - 1979 Representative, CAAMA to Council on Microbiology of the ASCP Commission on Continuing Education.
- 1977 - 1984 Member, Commission on Associate and Affiliate Affairs (CAAMA) (Commission Consultant), American Society for Clinical Pathologists (ASCP).
- 1979 - 1984 Inspector, College of American Pathologists (CAP Inspection and Accreditation Program).
- 1980 - 1981 Representative to American Society for Microbiology's Committee on Continuing Education from American Society for Clinical Pathologists(ASCP), Commission on Continuing Education.
- 1985 - 1986 Chairman, Microbiology Section, Pathology Resident In-service Examination Committee, American Society Clinical Pathologist Committee on Continuing Education (CCE).
- 1979 - 1985 Member, Educational Materials Advisory Committee, American Society for Clinical Pathologists.
- 1973 - 1981 South Central Association Clinical Microbiology (SCACM), Area Director-Central Ohio 1973-1975, Board of Directors 1978 -1981

**UNIVERSITY:**

- 1999 - Member, Ad Hoc Committee on Xenotransplantation, Office of Research.
- 1998 - Member, Comprehensive Cancer Center – Arthur G. James Cancer Hospital and Solove Research Institute, Immunology Program
- 1995 - Member, Institutional Biosafety Coordinating Committee, Research Foundation
- 1993 - Chair, 1994-present, Institutional Biosafety/Etiologic Agents Committee, Office of Research Risks Protection, Research Foundation

**COLLEGE OF MEDICINE:**

- 1994 - 1997 Member, Medical School Admissions Committee
- 1993 - 1994 Member, Longitude Preceptorship Team
- 1993 - 1995 Member, Introductions to Clinical Medicine Committee, ICM III
- 1986 - 1987 Chair, Search Committee for Chief of Infectious Diseases Division, Department of Internal Medicine.
- 1979 - 1980 Alternate Trustee, Board of Trustees, The Ohio State medical Research and Development Foundation (MRDF)
- 1978 - 1979 Vice-Chair, Self Study Committee on Organization and Administration in College of Medicine.

**DEPARTMENT OF PATHOLOGY:**

- 1999 - Member, HTRN Executive Committee
- 1997 - Co-Director, Division of Tissue Procurement
- 1997 - 1998 Chief, Bureau of Public Health Laboratories, Ohio Department of Health, State of Ohio and Medical Director Ohio Public Health Laboratories.
- 1996 - 1997 Interim Chief, Bureau of Public Health Laboratories, Ohio Department of Health, State of Ohio and Medical Director Ohio Public Health Laboratories.
- 1995 - 1997 Member, Photography Committee

- 1993 - 1997 Member, Pathology Clinical Quality Management Committee
- 1980 - Member, Computer Committee
- 1971 - 1997 Medical Director, Division Clinical Microbiology, Clinical Laboratories

**MEDICAL CENTER/ HOSPITAL:**

- 1995 - 1996 Member, SMS (Computer Enterprise System) Patient Care Advisory Committee
- 1994 - 1996 Project Leader, Epidemiology, JCAHO Steering Committee
- 1994 - 1995 Member, Clinical Communications Task Force Committee
- 1994 - 1995 Member, Computerized Patient Record Oversight Committee
- 1994 - Chair, Hospital Epidemiologist Search Committee
- 1992 - 1996 Member(ex. officio), Pharmacy & Therapeutic Executive Committee
- 1989 - 1996 Member, Medical Staff Officers Leadership Group
- 1989 - 1996 Member, Hospital Wide Clinical Quality Management Committee
- 1989 - 1995 Medical Director, Department of Hospital Epidemiology, Ohio State University Medical Center
- 1989 - 1995 Hospital Epidemiologist, University Hospitals, The Ohio State University.
- 1983 - 1995 Chair 1983-1993, Union County Memorial Hospital Infection Control Committee
- 1981 - 1982 Member, Hospital Medical Records Retention Committee
- 1979 - 1984 Member, Hospital Medical Records Committee
- 1976 - Member, Hospital Antibiotic Sub-Committee, Pharmacy and Therapeutics, (1976-1977, 1981-1983, 1983- present).
- 1971 - Member, Medical Center Infection Control Committee (Member 1971-1984 and 1987-present, Co-Chairman 1995-1996, Chair 1989-1994, Co-Chair 1977-1984).

**TEACHING RESPONSIBILITIES:**

- 1997 - Lectures, Seminars in Mechanisms of Disease (Pathology 850): Aspects of GI Pathology and Seminars in Mechanisms of Disease (Pathology 850): Pathology of AIDS-associated opportunistic infections.
- 1996 - Leader, Infectious Disease Module (#20), Independent Study Pathway(ISP-MED COLL 662a), College of Medicine (COM)
- 1994 - 1995 Facilitator, Problem Based Learning Pathway(PBL-MED COLL 662b), COM
- 1992 - Lectures, Annual Infection Control Bloodborne Pathogens Update, MED I(662): Medical Humanities and Behavioral Sciences(MHBS)-"Physician's Health", ICM II-Physical Examination, and ICM III-Clinical Introduction.
- 1992 - 1996 Clinical Teaching, Division of Microbiology Rounds
- 1988 - 1996 Consultant, Infectious Disease Module #20, ISP
- 1980 - Clinical Teaching Conference, Weekly Infectious Diseases Consult Rounds
- 1978 - 1997 Clinical Pathology Readings, PATHOLOGY 792.20
- 1985 - 1987 Basic PATHOLOGY Seminar Medical Communication Students
- 1984 - 1988 Clinical Teaching, Bone Marrow Transplant Rounds
- 1984 - 1987 Clinical Teaching, Burn Unit Rounds
- 1981 - 1985 PATHOLOGY/Seminar Medical Illustration Students
- 1971 - Clinical Teaching, MED III-IV (MED COLL 664) elective clerkship or PATHOLOGY 793.07, Individual Studies in Clinical Microbiology.
- 1971 - Clinical Teaching, Pathology Resident/Fellow Rotations Clinical Microbiology,
- 1971 - PATHOLOGY 999, Research

- 1971 - Lectures/Laboratories, MED II (MED COLL 663), Lecture/Discussion Pathway,  
General and Infectious Disease Pathology
- 1970 - Clinical Teaching, Bi-weekly Pathology Rounds

**GRANTS AND CONTRACTS:**

- 1998 **Principle Investigator**, AIDS Malignancy Bank (AMB), Project Title: *A Cooperative Tissue Bank of HIV-Positive Malignancies*, In consortium with 1. University of Texas, Southwestern, Dallas (Adi Gazdar, M.D.), Emory University (Chester Herman M. D.), Vanderbilt University (Mahlon Johnson, M. D.), and Rush University (John Coon, M.D.).NIH, NCI, U01, \$2,977,879.00, project period: 1998-2002.
- 1995 **Principle Investigator**; "Tissue Bank of HIV-Positive Malignancies. In consortium with University of Texas, Southwestern ( Adi Gazdar, M.D.), NIH, NCI, UO1, 15% RT, \$2,692,603.00, 1995-1999.
- 1995 **Co-Investigator**; "HIV Induced Emphysema-Challenge to Conventional Ideas", Subsection: Accumulations of Hemosiderin in Alveolar Macrophages as a Clue to Loss of Lung alveolar vascular bed. NIH, RO1, 10% RT, \$1,299,854.00, 1995-1999.

**PUBLICATIONS - REVIEWS & BOOK CHAPTERS:**

1. Washington J, **Ayers LW**, Woods G: Medical Bacteriology (Chapter 48). In Henry, JB. Clinical Diagnosis and Management by Laboratory Methods. W.B. Saunders 1996.
2. **Ayers LW**: Identification of Microorganisms using Chromatographic Techniques (chapter 5 -D). In Mahon and Manuselis, editors: Textbook of Diagnostic Microbiology. W.B. Saunders, 1995, pp 168-184.
3. **Ayers LW**: Microscopic Examination of Infected Materials (chapter 8). In Mahon and Manuselis, editors: Textbook of Diagnostic Microbiology. W.B. Saunders, 1995, pp 257-306.
4. Marmaduke D, **Ayers LW**: Infections of the Central Nervous System (chapter 29). In Mahon and Manuelis, editors: Textbook of Diagnostic Microbiology. W. B. Saunders, 1995, pp 913-934.
5. **Ayers LW**, Fritsche JT, Lancz G, Pindur A, and Specter S: Skin, Wound and Tissue Specimens. In Howanitz PJ and JH Howanitz, editors: Laboratory Medicine: Test selection and Interpretation. Churchill Livingstone, Inc., New York, 1991.
6. **Ayers LW**, Koneman EW, and Merrick TA: Surgical Pathology of Infectious Diseases. In Silverberg SG, editor: Principles and Practice of Surgical Pathology. John Wiley & Sons, Inc., 1983, pp 27-55 and 2nd edition, 1990, pp 19-51.
7. Federick BR, Wilson JW, and Gehweiler JA: The Anatomical Basis of Medical Practice. Williams and Wilkins Company, 1971, pp. 515-516.

**PUBLICATIONS - REFEREED PAPERS:**

1. Cordero L, Sananes M, **Ayers LW**, Coley B: Comparison of a closed (Trach Care®) to an open endotracheal suction system in small premature infants. J Perinatol (Accepted)

2. Cordero L, Sananes M, **Ayers LW**: Failure of systemic antibiotics to eradicate Gram negative bacilli (GNB) from the airway of mechanically ventilated newborns. *AJIC* 2000;28(4):1-5.
3. Lalumandier JA, **Ayers LW**: Fluoride and bacterial content of bottled water versus tap water. *Arch of Fam Med* 9(3):246-250, March 2000.
4. Cordero L, Sananes M, **Ayers LW**: Bloodstream infections in a neonatal intensive-care unit: 12 years' experience with an antibiotic control program. *Inf Control and Hosp Epid* 1999;20(4):242-6.
5. Cordero L, Coley BD, Hogan MJ, **Ayers LW**: Radiological pulmonary changes during Gram-negative bacillary nosocomial bloodstream infection in premature infants. *J Perinatol* 1998; 18(4):1-6.
6. Sosolik RC, Gammon RR, Julius CJ and **Ayers LW**: Pulmonary Alveolar Proteinosis. A report of two cases with diagnostic features in bronchoalveolar lavage specimens. *Acta Cytologica* 1998;42(2):377-83.
7. Mabee CL, Fromkes JJ, Pacht ER, **Ayers LW**, Kirkpatrick RB, Sundaram U: Pulmonary infections in hospitalized patients with cirrhosis. *J Clinical Gastro* 1998;26(1):44-9
8. Cordero L, **Ayers LW** and Davis K: Neonatal airway colonization with Gram negative bacilli: association with severity of bronchopulmonary dysplasia. *Ped Inf Dis J* 1997;16(1):18-23.
9. Fass RJ, Barnishan J, **Ayers LW**: The utility of non-beta-lactam antimicrobial MICs as markers to distinguish oxacillin-resistant from oxacillin-susceptible strains of *Staphylococcus epidermidis*. *Diag Microbiol & Infect Dis* 1996;26(1):43-5.
10. Cordero L, Davis K, Warner D, **Ayers LW**: *Ureaplasma urealyticum* tracheal colonization and respiratory disease in newborns. *Respiratory Care* 1996;41(1):22-9.
11. Fass R, Barnishan J, Solomon M and **Ayers LW**: In vitro activities of quinolones,  $\beta$ -lactams, tobramycin, and trimethoprim-sulfamethoxazole against nonfermentative gram-negative bacilli. *Antimicrobial Agents and Chemotherapy* 1996;40(6):1412-8.
12. Fass R, Barnishan J and **Ayers LW**: Emergence of bacterial resistance to imipenem and ciprofloxacin in a university hospital. *J Antimicrobial Chemotherapy* 1995;36(2):343-53
13. Pfeifer RW, Siegel J, and **Ayers LW**: Assessment of microbial growth in intravenous immune globulin preparations. *Am J Hosp Pharm* 1994;51(13):1676-9.
14. Aldridge KE, Gelfand M, Reller LB, **Ayers LW**, Pierson CL, Schoenknecht F, Tilton RC, Wilkinst J, Henderberg A, Schiro DD, Johnson M, Janney A, and Sanders CV: A five-year multicenter study of the susceptibility of the *Bacteroides fragilis* group isolates to cephalosporins, cephalins, penicillins, clindamycin, and metronidazole in the United States. *Diagn. Microbiol. Infect. Dis* 1994;18(4):235-41.

15. **Ayers LW**: Vaccinations [letter]. *Midwifery Today & Childbirth Education* 1994;29:8.
16. Fuller D, Davis TE, Kibsey PC, Rosmus L, **Ayers LW**, Ott M, Saubolle MA, and Sewell DL: Comparison of BACTEC Plus 26 and 27 Media with and without fastidious organism supplement with conventional methods for culture of sterile body fluids. *J Clin Microbiol* 1994;32(6):1488-91.
17. Cordero L, Davis K, Morehead S, **Ayers LW**. Factors affecting microbial colonization of the trachea and septicemia in mechanically ventilated neonates. *Respiratory Care* 1993 38(12):1355-63.
18. Ault KA, Gabbe SW, O'Shaughnessy RW and **Ayers LW**. Three cases of *Haemophilus influenzae* amnionitis. *American J Perinatol* 1993 Sep;10(5):378-80.
19. Ichida JM, Wassell JT, Keller MD, **Ayers LW**. Evaluation of protocol change in burn-care management using the cox proportional hazards model with time-dependent covariates. *Statistics in Medicine* 1993 Feb 12(3-4):301-10.
20. Cali A, Meisler DM, Lowder CY, Lembach R, **Ayers LW**, Takvoriam PM, Rutherford I, Longworth DL, and McMahon J. Corneal microsporidiosis: characterization and identification. *J. Protozoal* 1992;38(6):215s-17s.
21. Herchline TE and **Ayers LW**. Occurrence of *Staphylococcus lugdunensis* in consecutive clinical cultures and relationship of isolation to infection, *J. of Clin. Microbiol* 1991;29(3): 419-421.
22. Herchline TE, Barnishan J, **Ayers LW** and Fass RJ. Penicillinase production and in vitro susceptibilities of *Staphylococcus lugdunensis*. *Antimicrobial Agents & Chemotherapy* 1990;34(12): 2434-5.
23. Alfes JC and **Ayers LW**. Acute bacterial meningitis caused by *Francisella tularensis*. *Ped Inf Dis J* 1990;9(4):300-1.
24. Takegami KT, Siegle RJ, and **Ayers LW**. Microbiologic counts during outpatient office based cutaneous surgery. *J Amer Academy of Dermatology* 1990;23(6 pt 1):1149-52.
25. Fuchs PC, Jones RN, Barry AL, Allen SD, **Ayers LW**, and Pfaller M. Desacetylcefotaxime; another broad spectrum cephalosporin?, *J. Antimicrob Chemother* 1989; 23(1):165-7.
26. Burdge JJ, Rea F, and **Ayers LW**. Noncandidal fungal infections of the burn wound. *J Burn Care Rehabil* 1988;Nov-Dec, 9(6):599-601.
27. Jones RN, Barry AL, Pfaller M, Allen SD, **Ayers LW**, Fuchs PC. Antimicrobial activity of U-(CS-807). A new orally administered cephalosporin ester including recommendations for MIC quality control. *Diag Microb Inf Dis* 1988;9(1):59-63.
28. Barry AL, Jones RN, **Ayers LW**, Fuchs PC, Gavan TL, Gerlach EH. Quality control limits for

- microdilution susceptibility tests with cephalexin, cefazolin, cefaclor, cefixime, cefetamet (Ro 15-8074), cefmetazole, A-56268, roxithromycin, daptomycin (L4146032), minocycline and carumonam. J Clin Microbiol 1987;25(1):165-6.
29. Jones RN, Fuchs PC, Barry AL, **Ayers LW**, Gerlach EH, and Gavan TL. Antimicrobial activity of RO 19-5247 (T-2525), a new oral cephalosporin, tested against 7,745 recent clinical isolates. Diag Microbiol Infect Dis 1987;6(3): 193-8.
  30. Barry AL, Gavan TL, **Ayers LW**, Fuchs PC, Gerlach EH, and Thornsberry C. Quality control limits for microdilution susceptibility tests with norfloxacin. J Clin Microbiol 1987;25:165-6.
  31. Iams, JD, Clapp DH, Contos DA, Whitehurst R, **Ayers LW**, O'Shaughnessy RW. Does extra-aminiotic infection cause preterm labor? Gas liquid chromatography studies of amniotic fluid in amnionitis, preterm labor and normal controls. Obst and Gyn 1987;70:365-8.
  32. Barry AL, Gavan TL, **Ayers LW**, Fuchs PC, Gerlach EH, Thornsberry C. Quality control limits for microdilution susceptibility tests with aztreonam, imipenem, ceftriaxone, ceftazidime, ceftizoxime, cefuroxime and cefonicid. Diag Microbiol Inf Dis 1987;7:83-7.
  33. Fuchs PC, Jones RN, Barry AL, **Ayers LW**, Gavan TL, Gerlach EH and Thornsberry C. RO 23-6240(AM-833), a new fluoroquinolone: In vitro antibacterial activity and disk diffusion interpretive criteria. Diag Microbiol Inf Dis 1987;7:29-35.
  34. Jones RN, Fuchs PC, Barry AL, **Ayers LW**, Gerlach EH, and Gavan TL. Antimicrobial activity of RO 19-5247 (T-2525), a new oral cephalosporin, tested against 7,745 recent clinical isolates. Diag Microbiol Inf Dis 1987;6(3):193-8.
  35. Fuchs PC, Barry AL, Jones RN, Thornsberry C, **Ayers LW**, Gavan TL, and Gerlach EH. Ci-934, A new difluoroquinolone: *In-Vitro* antibacterial activity and proposed disk diffusion test interpretive criteria. Diag Microbiol Inf Dis 1987;6:185-92.
  36. Fuchs PC, Jones RN, Barry AL, **Ayers LW**, Gavan TL, Gerlach EH. In vitro activity of carumonam (RO 17-2301), BMY-28142, aztreonam and ceftazidime against 7,620 consecutive clinical bacterial isolates. Diag Microbiol Inf Dis 1986;5:345-9.
  37. Fuchs PC, Jones RN, Barry AL, Thornsberry C, **Ayers LW**, Gavan TL, Gerlach EH. In vitro evaluation of cefixime (FK027, FR17027, CL284635): Spectrum against recent clinical isolates, comparative antimicrobial activity, beta-lactamase stability and preliminary susceptibility testing criteria. Diag Microbiol Inf Dis 1986;5:151-62.
  38. Jones RN, Fuchs PC, Barry AL, **Ayers LW**, Gerlach EH, and Gavan TL. Antimicrobial activity of RO 15-8074, active metabolite of a new oral cephalosporin (RO 15-8075), against 7,775 recent clinical isolates. Antimicrob Agent and Chem 1986;30(6):961-3.
  39. Fass RJ, Helsel VL, Barnishan J, **Ayers LW**. In vitro susceptibilities of the coagulase-negative staphylococci. Antimicrob Agent and Chem 1986;30:545-52.

40. Jones RN, **Ayers LW**, Gavan TL, Gerlach EH, Barr FS. Activity of temocillin and ticarcillin against consecutively isolated enterobacteriaceae in four medical centers. [letter] J Antimicrobial Chem 1986:17:541-2.
41. Barry AL, Jones RN, Thornsberry C, **Ayers LW**, Gavan TL, Gerlach EH. *In vitro* activity of the aryl-fluoroquinolones A-56619 and A-56620 and evaluation of disk susceptibility tests. Eur J Clin Microbiol 1986:5:18-22.
42. Jones RN, **Ayers LW**, Barry AL, Gerlach EH, Sommers HM, Thornsberry C, Fuchs PC. In vitro activity of DJ-6783 (a keto carboxylic acid) compared with six other orally administered antimicrobial agents. Diag Microbial Inf Dis 1986:4(4):315-26.
43. Scheckelhoff DJ, Mirtallo JM, **Ayers LW**. Growth of bacteria and fungi in total parenteral nutrition solutions containing intravenous fat emulsions. J Hosp. Pharm 1986: 43:73-7.
44. Barry AL, Jones RN, Thornsberry C, Fuchs PC, **Ayers LW**, Gavan TL, Gerlach EH, Sommers HM. Cefperamide: comparative in-vitro activity and B-lactamase stability. J Antimicrob Chem 1985:16:315-25.
45. Jones RN, **Ayers LW**, Gavan TL, Gerlach EH, Sommers HM. In vitro comparative antimicrobial activity of cefpimizole against clinical isolates from five medical centers. Antimicrob Agents Chem 1985:27:982-4.
46. Svirbely JR, **Ayers LW**, Buesching WJ. Filamentous *Histoplasma capsulatum* endocarditis involving mitral and aortic porcine bioprosthesis. Arch Path Lab Med 1985:109(3):273-6.
47. Barry AL, Jones RN, Thornsberry C, and **Ayers LW**. Imipenem (N-formimidoyl thienamycin): In vitro antimicrobial activity and B-lactamase stability. Dia. Microbiol Inf Dis 1985:3(2):93-104.
48. DeMaria TF, Lim DJ, Barnishan J, **Ayers LW**, and Birck HG. Biotypes of serologically nontypable *Haemophilus influenzae* isolated from the middle ears and nasopharynxes of patients with otitis media with effusion. J Clin Microbiol 1984:20:1102-4.
49. Jones RN, Thornsberry C, Barry AL, **Ayers LW**, Brown JD, Fuchs PC, Gavan TL, Gerlach EH, Matsen JM, Reller LB, and Sommers HM. Disk diffusion testing, quality control guidelines, and antimicrobial spectrum of HR810, a fourth-generation cephalosporin, in clinical microbiology laboratories. J Clin Microbiol 1984:20:409-12.
50. Barry AL, Jones RN, **Ayers LW**, Gavan TL, Gerlach EH, and Sommers HM. *In vitro* activity of apalcillin compared with those of piperacillin and carbenicillin against 6,797 bacterial isolates from four separate medical centers. Antimicrob Agents Chem 1984:25:669-71.
51. Barry AL, Jones RN, Thornsberry C, **Ayers LW**, Gerlach EH, and Sommers HM. Antibacterial activities of ciprofloxacin, norfloxacin, oxolinic acid, cinoxacin, and nalidixic acid. Antimicrob Agents Chem 1984:25:633-7.

52. Bump RC, Zuspan FP, Buesching WJ, **Ayers LW**, and Stephens TJ. The incidence, six-month persistence and predictive values of laboratory indicators of *Gardnerella vaginalis* in asymptomatic women. *Am J Obst Gyn* 1984;150:917-24.
53. Barry AL, **Ayers LW**, Gavan TL, Gerlach EH, and Jones RN. Ticarcillin plus clavulanic acid: increased in vitro activity against bacterial isolates recovered in three separate institutions. *Eur J Clin Microbiol* 1984;3:203-6.
54. Svirbely JR, Buesching WJ, **Ayers LW**, Baker PB, and Britton AJ. *Mycobacterium fortuitum* infection Hickman catheter site. *Amer J Clin Path* 1983;80:733-5.
55. Buesching WJ, Brust RA, and **Ayers LW**. Enhanced primary isolation of *Legionella pneumophila* from clinical specimens by low-pH treatment. *J Clin Microbiol* 1983;17:1153-5.
56. Buesching WJ, Svirbely JR, and **Ayers LW**. Evaluation of the Anaerobe-Tek system for identification of anaerobic bacteria. *J Clin Microbiol* 1983;17:824-9.
57. **Ayers LW**, Jones RN, Barry AL, Thornsberry C, Fuchs PC, Gavan TL, Gerlach EH, and Sommers HM. Cefotetan, a new cephamycin: Comparison of in vitro antimicrobial activity with other cepheims, B-lactamase stability, and preliminary recommendations for disk diffusion testing. *Antimicrob Agents Chem* 1982;22:859-77.
58. Mirtallo JM, Caryer K, Schneider PJ, **Ayers LW**, and Fabri PJ. Growth of bacteria and fungi in parenteral nutrition solutions containing albumin. *Am J Hosp Pharm* 1981;38(12):1907-10.
59. Moore TD, Bechtel TP, and **Ayers LW**. Effect of multidose therapy on cerebrospinal fluid penetration of Cefazolin. *Am J Hosp Pharm* 1981;38:1496-9.
60. Lott JA, Speicher CE, and **Ayers LW**. Typhoid fever toxemia with associated destruction of skeletal muscle. *Clin Chem* 1980;26:1361-2.
61. Sanford JR, **Ayers LW**, Cornhill JF, Carey LC, Kilman JW, Page WG, and Vasko JS. Alterations in gastrointestinal contents induced by elemental diets. *J Surg Onc* 1979;12(2):165-7.
62. Barnishan J, and **Ayers LW**. Rapid identification of nonfermentative Gram negative rods by the coming N/F system. *J Clin Microbiol* 1979;9(2): 239-43.
63. Lawrence TL, and **Ayers LW**. Drug therapy in otomycosis: An in vitro study. *Laryngoscope* 1978;88:1755-60.
64. Miglets AW, Saunders WH, and **Ayers LW**. Aspergillosis of the sphenoid sinus. *Arch. Otolaryngol* 1978;104:47-50.
65. Stewart RC, and **Ayers LW**. A plea for more rational use of "cold sterilization" procedures in podiatric medicine. *J Am Podiatry Assoc* 1977;67:441-4.
66. Rutherford I, Moody MS, Gavan T, **Ayers LW**, and Taylor DT. Comparative study of three

methods of identification of enterobacteriaceae. J Clin Microbiol 1977;5:458-64.

67. Cattaneo SM, Ayers LW, and Meckstroth CV. Selective sputum cultures. A bronchial culture technique using a modified nasotracheal suction catheter with a sterile, inner telescoping cannula. J Thorac Cardiovas Surg 1975;69:152-9.

### **COLLABORATIVE REPORTS:**

1. Landry and Ayers LW, Barth S, English L, Fink R, Gherna R, Master R, McPhearson T, Osterhout J, Roderick C, Siders J, Singleton E, Tickett D, Twohy C. 1994. Identification of *vibrio vulnificus* by cellular fatty acid composition using the Hewlett-Packard 5898A Microbial Identification System: Collaborative Study. J AOAC Int 1994;77:1492-9.
2. Jones RN, Barry AL, Thornsberry C, and The Collaborative Antimicrobial Susceptibility Testing Group. Disk diffusion susceptibility testing and broth microdilution quality control guidelines for BMY-28100, a new orally administered cephalosporin. J Clin Microbiol 1987;25:2211-3.
3. Barry AL, Fuchs PC, Jones RN, and The Collaborative Antimicrobial Susceptibility Testing Group. Statistical criteria for selecting quality control limits for broth microdilution susceptibility tests with 39 different antimicrobial agents. Diag Microbiol Inf Dis 1989;12:413-20.
4. Jones RN, AL Barry, and The Collaborative Antimicrobial Susceptibility Testing Group. Cefitbuten (7432-S, SCH 39720): Comparative antimicrobial activity against 4735 clinical isolates, beta-lactamase stability and broth microdilution quality control guidelines. Eur J Clin Microbiol Inf Dis 1988;7:802-7.
5. Barry AL, Jones RN, and The Collaborative Antimicrobial Susceptibility Testing Group. Criteria for disk susceptibility tests and quality control guidelines for the cefoperazone-sulbactam combination. J Clin Microbiol 1988;26:13-7.
6. Barry AL, Jones RN, Gavan TL, Thornsberry C, and The Collaborative Antimicrobial Susceptibility Testing Group. 1987. Quality control limits for teicoplanin susceptibility tests and confirmation of disk diffusion interpretive criteria. J. Clin. Microbiol., 25(9):1812-1814.
7. Jones RN, Barry AL, and The Collaborative Antimicrobial Susceptibility Testing Group. Susceptibility testing of carumonam: Interpretive criteria for 30 ug disk tests and quality control guidelines for disk diffusion and broth microdilution methods. J Clin Microbiol 1987;25:2243-6.

### **ABSTRACTS:**

1. Cordero L, Sananes M, and Ayers LW. Incidence and Associated Complications of Enteric Gram-Negative Bacillary (EGNB) Blood Stream Infection (BSI) in Very Low Birth Weight Infants. #750619 Pediatric Academic Societies & American Academy of Pediatrics Joint Meeting, Boston, MA, May 15, 2000.
2. Cordero L, Ayers LW, Miller RR, Sequin JH, Coley BD. Ventilator-Associated Pneumonia (VAP):

Surveillance of Very Low Birth Weight (VLBW) Infants in an NICU. #750064 Pediatric Academic Societies & American Academy of Pediatrics Joint Meeting, Boston, MA, May 15, 2000.

3. **Ayers LW**<sup>1</sup>, and The Midregion ACSB Consortium. <sup>1</sup>The Ohio State University, Emory University, Rush University, University of Texas, Southwestern and Vanderbilt University: Application of the Tissue Microarray (TMA) Method by the Midregion AIDS and Cancer Specimen Bank (ACSB) to Prepare Study Sets from HIV Infected and Control Tissues. #A050 The Fourth International AIDS Malignancy Conference, May, 2000.
4. **Ayers LW**, McGrath MS, Silver S, Miles S, Axiotis C. The AIDS and Cancer Specimen Bank (ACSB), A NCI Tissue and Biological Fluids Bank of HIV Infected Tissues. The Third National AIDS Malignancy Conference. May 1999.
5. Parris L, **Ayers LW**. Iron Loading of Alveolar Macrophages in HIV Positive Patients. The MRI Science Symposium, Medical/Science Research Initiative, (MRI), Office of Minority Affairs, NIH/NCRR, The Ohio State University, Columbus, OH, August 1999.
6. Flickinger M, McGrath M, Silver S, Orenstein J, Miles S, **Ayers LW**, Axiotis C: Tissue and biological fluids banks of HIV-related malignancies. *J Acquired Immune Deficiency Syndromes* 1999;21(1):A15.
7. Cordero L, Sananes M, **Ayers LW** and Coley B. Comparison of a closed (Trach Care®) vs an open endotracheal suction system in newborns. Ped Academic Soc Annual Meeting. San Francisco, CA, May 1999. *Pediatric Research* 45(4):191A:1117
8. Cordero L, Sananes M, Coley B, Hogan M, Gelman M, **Ayers LW**. Radiological pulmonary changes in neonates at the time of nosocomial blood stream infection (BSI) or during airway colonization with *pseudomonas aeruginosa*. Ped Academic Soc Annual Meeting. San Francisco, CA, May 1999. *Pediatric Research* 45(4):191A:1118
9. Cordero L, Sananes M, Dedhiya P, **Ayers LW**. Purulence and Gram negative bacilli in tracheal aspirates of mechanically ventilated neonates Ped Academic Soc Annual Meeting. San Francisco, CA, May 1999. *Pediatric Research* 45(4):191A:1119
10. Flickinger M, McGrath M, Silver S, Orenstein J, Miles S, **Ayers LW**. Axiotis C: AIDS malignancy bank: a source for tissue and biological fluids of HIV-related malignancies. 12<sup>th</sup> World AIDS Conference, Geneva, Switzerland, June 28 – July 3, 1998
11. King MA, Yip D, Neal DE, Wewers M, Pacht ER, Gadek J, Diaz PT, **Ayers LW**. Occult pulmonary hemorrhage in HIV-positive individuals without AIDS correlates with CT evidence of emphysema. *Am J Respir Crit Care Med* 1998;157:A1784
12. Cordero L, Sananes M, **Ayers LW**. Failure to eradicate Gram negative bacilli (GNB) airway colonization in mechanically ventilated newborns. The American Pediatric Society/The Society for Pediatric Research, Spring Meeting, New Orleans, Pediatric Research Society, Washington, D.C., May 1998.

13. Flickinger J, McGrath MS, Silver S, Miles M, **Ayers LW**. Axiotis C: Tissue and biological fluid banks of HIV-related malignancies. The Second National AIDS Malignancy conference, April 6-8, 1998, NCI, Bethesda, MD. *J Acquired Immune Deficiency syndromes and Human Retrovirology* 17:A50
14. Choi Y, Lalumandier JA, **Ayers LW**. Bacterial and fluoride content of bottled water versus tap water. American Association for Dental Research, March 5, 1998, Minneapolis, MN. *J Dental Res* 1998;77:367.
15. **Ayers LW**, Iyer M, Lott J. Efficiency of TSH (Wallac), T4 (Wallac) and T4 (Neometrics) Screening for Congenital Hypothyroidism in Ohio, Program of 13<sup>th</sup> National Neonatal Screening Symposium, San Diego, California, March 2-4, 1998.
16. Mallery S, **Ayers LW**, et. al., Kaposi sarcoma cells demonstrate increased susceptibility to a redox cycling drug. The Second National AIDS Malignancy Conference, NCI, Bethesda, Maryland, April 6-8, 1998.
17. **Ayers LW**, Morford R, Diaz P: Occult pulmonary hemorrhage in asymptomatic HIV positive patients, Landacre Day Presentation, Landacre Society. College Of Medicine, The Ohio State University, April 10, 1997.
18. Cordero L, Coley BD, Hogan MJ, **Ayers LW**. Radiological pulmonary changes during gram negative bacillary nosocomial bloodstream infection (BSI) in premature infants. The American Pediatric Society for Pediatric Research, Washington, D.C., May 2, 1997.
19. Cordero L, **Ayers LW**. Gram negative bacillary nosocomial bloodstream infection (BSI) and broncho-pulmonary dysplasia (BPD). The American Pediatric Society For Pediatric Research, Washington, D.C. May 2, 1997.
20. **Ayers LW**, Bannerman TL, Sohner KB, Jackson B. Combined cellular fatty acid (CFA) screening and molecular typing of outbreak related *Burkholderia cepacia* and *Serratia marcescens*. 97th General Meeting of American Society for Microbiology, May 4-8, 1997.
21. Bannerman TL, Sabol LM, Solomon M, **Ayers LW**. *Roseomonas gilardii* bacteremia in immunosuppressed patients: Molecular epidemiology using pulsed-field gel electrophoresis (PFGE). 97th General Meeting of American Society for Microbiology, May 4-8, 1997.
22. Cordero L, Sananes M, **Ayers LW**. Failure to eradicate Gram negative bacilli (GNB) airway colonization in mechanically ventilated newborns. The American Pediatric Society/The Society for Pediatric Research. Pediatrics and Pathology, The Ohio State University Medical Center, Columbus, OH, December 1997.
23. Cordero L, Sananes M, **Ayers LW**. Mechanically ventilated newborns: A comparison of two airway suctioning regimens. The American Pediatric Society/The Society for Pediatric Research, The Ohio State University Medical Center, Columbus, Oh December 1997.
24. **Ayers LW**, Cordero L, Bannerman T, Bradley B, Sananes M, Epidemiology of gram negative

- bacilli (HGNB) airway colonization in an NICU. The American Pediatric Society/The Society for Pediatric Research. The Ohio State University Medical Center Columbus, OH, December 1997.
25. Rudmann S, Hagan J, Ng A, **Ayers LW**, Lasky L. Quality improvement: A successful Educational intervention. 49th Annual Meeting of American Association of Blood Banks, October 12-16, 1996.
  26. Hagan J, Rudmann S, Ng A, **Ayers LW**, Lasky L. Quantification and Reduction of Bacterial Contamination of Platelet Concentrates. 49th Annual Meeting of American Association of Blood Banks, October 12-16, 1996.
  27. Cordero L, **Ayers LW**, and Davis K. Airway Colonization With Gram Negative Bacilli (GNB): Association With Severity of Broncho-pulmonary Dysplasia (BP). 1996 Annual Meeting of the Pediatric Academic Societies, May 6-10, 1996, Washington, D.C.
  28. **Ayers LW**, Bannerman TL, and Mangino, JE, (CFA) Screening and Pulsed-Field Gel Electrophoresis (PFGE) Analysis Used to Characterize a Suspected Nosocomial Outbreak with *Mycobacterium kansasii*. Ohio Dept of Health, Bureau of Public Health Lab (PHL) and The Ohio State University, Columbus, OH 1998. 96th ASM General Meeting, May 19, 1996, New Orleans, LA.
  29. **Ayers LW**, Johnson J and Rausch M. Compliance and Culture Monitoring of a One Blood Culture Sample Per Twenty-four Hours Policy. 96th General Meeting of the ASM, May 19-23, 1996 New Orleans, LA.
  30. Rausch M, Mong L and **Ayers LW**. Additional Clinical Fungal Blood Isolates When Paired With BACTEC Plus Aerobic Media. 96th General Meeting of ASM, May 19-23, 1996, New Orleans, LA.
  31. Davis K and **Ayers LW**. A Program for Physician Annual Bloodborne/Airborne Pathogens. Education and Tuberculosis Status in an Academic Medical Center. 5th Annual Meeting, SHEA, April 2, 1995, San Diego, CA.
  32. Webster L and **Ayers LW**: Reduction in Staphylococcal Infection in Renal Patients as a result of Chlorhexidine Gluconate Bathing. The Association for Practitioners in Infection Control and Epidemiology, 21st Annual Education Conference, Cincinnati, OH 1994.
  33. Webster L and **Ayers LW**: above, presented on May 26-27, 1994, International Symposium on Chemical Germicides in Health Care, Cincinnati, OH.
  34. Cordero L, Davis K, Warner D, and **Ayers LW**: *Ureaplasma urealyticum* Tracheal Colonization of Mechanically Ventilated Newborn. Children's Hospital Science Day, Columbus, OH, June 2, 1994.
  35. Cordero L, Davis K, Warner D, and **Ayers LW**: *Ureaplasma urealyticum* Tracheal Colonization of Mechanically Ventilated Newborn. Pediatric Research, Seattle, WA, 1994.

36. **Ayers LW**, Kulich P, Davis K: Design and Installation of a Double High Efficiency Particulate Air (HEPA) Filtered, Laser Monitored Heating Ventilation Air Conditioning (HVAC) System for Transplant/Implant Surgery. The Association for Practitioners in Infection Control and Epidemiology, 21st Annual Education Conference, Cincinnati, OH, 1994.
37. Davis K, **Ayers LW**, Webster L: An Emergency Response and Restoration Protocol for Extensive Indoor Flooding in a Health Care Facility. The Association for Practitioners in Infection Control and Epidemiology, 21st Annual Education Conference, Cincinnati, OH, 1994.
38. Solomon MC and **Ayers LW**: Prevalence of High Level Enterococcal Aminoglycoside Resistance in the Midwest and the Need for Routine Testing. Abstracts of the 94th American Society for Microbiology (ASM), Las Vegas, NV, May 25, 1994.
39. **Ayers LW** and Solomon MC: Recognition of a New Species of *Staphylococcus* by Phenotypic and Cellular Fatty Acid Subgrouping and Ribotyping. Abstracts of the 94th American Society for Microbiology (ASM), Las Vegas, NV, May 24, 1994.
40. Davis K, **Ayers LW**, Cordero L: Relationship of Neonatal Colonization by Selected Bacterial Species to Subsequent Bloodstream Infections. Abstracts of the 1993 Association for Practitioners in Infection Control Conference, Orlando, FL, May 24, 1993.
41. **Ayers LW**, Rausch M, Buesching WJ: Improved Performance of BACTEC 52 Fungal Medium for the Isolation of Yeast Compared to BACTEC 26 Medium. Abstracts of the 93rd American Society for Microbiology (ASM), Atlanta, GA, May 16-20, 1993.
42. Solomon MC and **Ayers LW**: Predominance of *Acinetobacter baumannii* in Human Clinical Specimens: Identification by Bacterial Cellular Fatty Acid Analysis. Abstracts of the 93rd American Society for Microbiology, Atlanta, GA, May 16-20, 1993.
43. Kulich P, Webster L, Davis K, and **Ayers LW**: An Alternative Method for Providing Continuing Infection Control Education in a University Teaching Hospital. Abstracts of the 19th Annual Educational and International Conference, San Francisco, CA, June 1-5, 1992.
44. Davis T, Fuller P, Kibsy P, Rosaus L, **Ayers LW**, Rausch M, Saubolle M, and D Sewell: Comparison of Culturing Sterile Body Fluids Using the BACTEC Plus 26/27 Media and the FOS (Fastidious Organism Supplement) to Conventional Culture Methods. Abstracts of the 1991 Annual Meeting of ASM, Dallas, TX, May 5-9, 1991.
45. **Ayers LW**, Warburton T, and Buesching WJ: The Use of Bacterial Cell Wall Fatty Acid Analysis with Statistical Cluster Analysis for the Rapid Assessment of Bacterial Relatedness in Epidemiologic Investigations. Abstracts of the 18th Annual Meeting of APIC, Nashville, TN, May 5-9, 1991.
46. Drake A, and **Ayers LW**: Validation of the Microbial Safety of Instruments/Utensils Following Automated Thermal Disinfection. Abstracts of the 1991, 18th Annual Meeting of APIC, Nashville, TN, May 5-9, 1991.

47. **Ayers LW**, Fox B, Jacobson C, Smith C, Kemper R., and White C: Aeromicrobial control in an extensively damaged hospital using a long lasting, surface active, silane antimicrobial. Abstracts of the 1991, 18th Annual Meeting of APIC, Nashville, TN, May 5-9, 1991.
48. Buesching WJ, Solomon MC, Puchalski T, and **Ayers LW**: Identification of clinical isolates of *Mycobacterium* species by gas chromatography. Abstracts of the 1991 Annual Meeting of ASM, Dallas, TX, May 5-9, 1991.
49. **Ayers LW** and Solomon MC: Performance of the Library Generation Software of the MIS System in the Management of *Staphylococcus* speciation. Abstracts of the 1991 Annual Meeting of ASM, Dallas, TX, May 5-9, 1991.
50. **Ayers LW**, and Kulich P: Appearance of Ciprofloxacin (CIP) Resistant Bacteria During an Episode of High Use in a Rehabilitation Hospital. Abstracts of the 17th Annual Meeting of APIC, Am. Journ. Inf. Cont., 18(2):147, Nashville, TN, 1990.
51. **Ayers LW**, and Rae JE: Longterm Control of *Staphylococcus aureus* Burn Wound Colonization/Infection by Daily Total Body Chlorhexidine Bathing. Abstracts of the 17th Annual Meeting of APIC, Am. Journ. Inf. Cont., 18(2):143, Nashville, TN, 1990.

1973 – 1989 Abstracts omitted (51).

#### **OTHER PUBLICATIONS/PRESENTATIONS:**

1. Tap Water Has Edge on Fluoride Front. John O'Neil (2000, March 21). New York Times, p. D8.
2. Vitka J, Becker W, **Ayers LW**, Keppler C, Miller T, Paszko C. Open Feature: Implementing Automation in HIV testing, Scientific data Management, November 1998.
3. **Ayers LW**. Clinical Microbiology Considerations in Selection of Cephalosporins for the Hospital Formulary. In: Rational Selection and use of Cephalosporins: Implications for Hospital Formulary Management. Proceedings of a Roundtable Discussion. Phoenix, AZ, December 5, 1986.
4. **Ayers LW**. Bacterial Agents of Diarrhea, (In) Smith, JW. The Role of Clinical Microbiology in Cost-Effective Health Care, CAP Conference/1984, College American Pathologists, Skokie, IL, pages 117-127, 1985.
5. **Ayers LW**, Determining Cost-Effectiveness of Automated Equipment. (In) Smith, JW. The role of Clinical Microbiology in Cost-Effective Health Care, CAP Conference/1984, College American Pathologists, Skokie, IL, pages 485-488, 1985.
6. Scheckelhoff DJ, Mirtallo JM, **Ayers LW**, Visconti JA, Letter(Reply): Evaluating Growth of Bacteria and Fungi in Total Nutrient Admixtures. Amer J Hosp Pharm. 43:1692-1693, 1986.
7. **Ayers LW**: Consultation Casebook. Emergency workup for peritonitis. Pathologist 38:254-255, April, 1984.

8. Svirbely JR, **Ayers LW**: Microbiology Tech Sample No. MB-6, 1984.
9. DeMaria TF, Lim DJ, **Ayers LW**, Barnishan J, and Birck HG. 1983. Biotypes of serologically nontypable *Haemophilus influenzae* isolated from the middle ear and pharynx of OME patients. In Proceedings of the Third International Symposium on Otitis Media with Effusions.
10. Michelson PA, Miller WA, Warner JF, **Ayers LW**, and Boxembaum H. 1983. Multiple dose pharmacokinetics of gentamicin in man: Evaluation of the Jelliffe nomogram and the adjustment of dosage in patients with renal impairment. APHA Academy of Pharmaceutical Sciences Symposium, Chapter 12.
11. **Ayers LW**: Histotechnology Tech Sample No. 3 HT-6, American Society Clinical Pathologists, 1982.
12. **Ayers LW**: Direct smear examination wounds. South Central Association Clinical Microbiology Newsletter, Vol. 10, No. 2, Fall 1979.
13. **Ayers LW**: Direct Gram stain of clinical infectious material. American Society Clinical Pathologist Check Sample, 1979.
14. Ichida JM, JT Wassell, MD Keller, and **Ayers LW**, Evaluation of Protocol Change in Burn-Care Management Using the Cox Proportional Hazards Model with Time-Dependent Covariates. 1990 Symposium on Statistical Methods for Evaluation of Intervention and Prevention Strategies, December 4, 1990, Atlanta, GA.

#### **EDITORIAL BOARDS:**

- Editorial Board, Diagnostic Microbiology, Infectious Diseases, 1988-1994.
- Editorial Board, American Journal of Clinical Pathology, 1984.
- Editorial Board, Laboratory Medicine, 1979-1983.

#### **CONSULTATION:**

- Consultant Clinical Pathology, Union County Memorial Hospital, Marysville, Ohio, 1983-2000.
- Consultant Clinical Pathology and Hospital Infection Control, Medical Microbiology, Chillicothe Veterans Administration Hospital, 1976-1982.
- Consultant Clinical Pathology, Medical Microbiology, Brown Hospital, Veterans Administration Center, Dayton, Ohio, 1973-1978.
- Consultant Clinical Pathology, University Hospitals East, Columbus, Ohio, 1999-2000.

#### **FELLOWS IN CLINICAL MICROBIOLOGY:**

- |             |                                                                              |
|-------------|------------------------------------------------------------------------------|
| 1994 - 1996 | Hugh Trout, M.D., OB-GYN, part time fellow                                   |
| 1987 - 1989 | Richard Drake, M.D., Pathology, AP/CP                                        |
| 1987 - 1988 | Melinda Schumacher, M.D., Pathology AP/CP                                    |
| 1981 - 1982 | John Svirbely, M.D., AP/CP, 1983 Subspecialty Boards in Medical Microbiology |

### **SPECIAL STUDENTS:**

1. Michele Weisenberger, 1999-(Honors student, Identifying Patients at Risk for Persistent *Chlamydomyphila pneumoniae* Infection Using Surrogate Chemical Markers for Inflammation, Tissue Damage and Genetic Phenotypes.
2. Ralph J. Napolitano, Jr., 1991-1992 Practical Experiences in Science, Baldwin College Summer Program. (Training and education advisor).
3. 2. Takegami KT, B.S., 1990, medical student, Project: Microbiologic Counts During Outpatient Office Based Cutaneous Surgery (research advisor).
4. 3. Robert Pfeifer, B.S., 1990, Clinical Pharmacy Fellow, Department of Pharmacy Project: Growth of Bacteria and Fungi in Intravenous Immunoglobulins.(research advisor).
5. 4. Marilyn Peters, B.A., 1985, Summer Cancer Education Grant, medical student, College of Medicine. Project: Evaluation of UV Radiation Pass-Through Chambers for Microbial Decontamination of Selected Patient Care Items. (research advisor).
6. Douglas J. Scheckelhoff, B.S., 1985, Clinical Pharmacy Fellow, College of Pharmacy Project: Microbial Growth in Selected TPN Solutions. (research advisor).
7. 6. Masako Sakamoto, B.S., 1983 Research Training for Research Foundation for Microbial Diseases of Osaka Univ. (3-1 Yamada Oka.Suita), Osaka, Japan. Education and Training in Antimicrobial Microtube Susceptibility Testing for Evaluation of Experimental Antibiotics.(research advisor/test system developer).
8. Pierrette Vandell, B.S. and Terry Kullman, B.S., 1983, Technical Training inAntimicrobial Microtube Susceptibility Testing for Donald E. Lou, M.D.Hospital General, St. Boniface General Hospital, Winnipeg, Manitoba. (Training advisor/test system developer).
9. D. J. Hoban, Ph.D. AM(CCM),1983, Research Training, Antimicrobial Microtube Susceptibility Testing for research at Health Sciences Centre, Winnipeg, Manitoba (research training advisor/test system developer).
10. Elsa Araque, B.S., 1982, Clinical Pharmacy Exchange with Caracas, Venezuela, School of Pharmacy, Ohio State University. Training in Antibiotic Susceptibility Testing. Training and education advisor).
11. Mirtallo JM, B.S., 1981, Clinical Pharmacy Fellow, College of Pharmacy. Project: Growth of bacteria and fungi in parenteral nutrition solutions containing albumin.(research advisor).
12. Sohair Abdel Latif Isa, MBBsh, 1979, Advanced Training in Clinical Mycology, Professional Development, Faculty Medicine, Cancer Institute, Cairo University, Egypt, supported by America-Mideast Educational and Training Services. (Education and training advisor).

### **GRADUATE/PROFESSIONAL STUDENTS, THESES, DISSERTATIONS:**

1. Janet Polichene, B.S.Nursing, 1991, School of Nursing. Thesis Pilot: Comparison of the Incidence of Hickman Catheter Exit Site Infections in an Adult Oncology Outpatient Population When Using Two Types of Dressings: Band-Aid and Op-Site. (research advisor).
2. Janet Ishida, B.S., M.S. 1990, Department of Preventive Medicine.Thesis: Evaluation of Protocol Change in Burn-Care Management Using The Cox Proportional Hazards Model With Time -Dependent Covariates.(research advisor).
3. Amira Youssef El-Bastawissi, M.B.CH.B, M. S. 1984, Pathology.Thesis: Laboratory Evaluation of the Antibacterial Quality of Amniotic Fluid.(academic and research advisor).
4. Katherine E. Wilson, B.S., M.S. 1984, College of Nursing.Thesis: The Effects of Chlorhexidine and an Emollient on Human Microbial Skin Flora.(research advisor).
5. Julius Yuan-Pei Chou, B.S., M.S. 1982, Allied Medical Sciences.Thesis: OSU-Microlab, A Clinical Microbiology Information System Design (project advisor and thesis committee member).

6. Barbara Ann Hackman, B.A., M.T.(ASCP), M.S. 1978, Pathology.Thesis: The Use of Laser Nephelometry in the Identification of Histoplasmin Specific Antibodies. (academic and research advisor).
7. Sandra Steward McCoy, B.A., M.T.(ASCP), M.S.1976, Pathology.Thesis: Laboratory Evaluation of Clinical Isolates of *Corynebacterium vaginale* Gardenerella vaginalis), Including In Vitro and In Vivo Fine Structure by Electron Microscopy. (academic and research advisor).
8. Patrick J. Kunke, B.S.,M.S. 1975, Pathology.Thesis: A Semiautomated Method for Determining the In Vitro Action of Antibiotics in combination, Vancomycin and the Aminoglycoside Antibiotics Against Clinical Isolates of Enterococci. (academic and research advisor)
9. Candace Johnson Greenup, B.S., M.T.(ASCP), M.S. 1974, Pathology.Thesis: A Rapid Method for Distinguishing between the Genera *Staphylococcus* and *Micrococcus* with Application to Disease Producing Isolates. (academic and research advisor)
10. Susan Dale Parsons, B.S., M.T.(ASCP), M.S. 1972, Pathology.Thesis: The Effect of pH Upon Anaerobe Susceptibility Testing of *Bacteroides fragilis*. (academic and research advisor).
11. Juliana T. Kasper, B.S., M.T.(ASCP), M.S. 1971, Pathology Thesis: The Application of a Motorized Circular Inoculation Technique For Primary Colony Isolation and Sensitivity Plate Preparation in the Routine Bacteriology Laboratory. (academic and research advisor)

### **STUDENT SERVICES:**

#### Academic Advising:

- 1989 - Medical Student advising, Independent Studies Program, College of Medicine.
- 1985 - Clinical Pharmacy students and faculty with an interest in infection related studies.
- 1971 - Housestaff and fellows in internal medicine, infectious diseases, surgery, and obstetrics- gynecology with an interest in infection related studies.
- 1971 - Graduate Student Advisor (M.S.) Student Affairs Committees, Task Forces, and Other Student Services:
- 1995 – 1997 Representative, College of Medicine, Student and Parent Orientation, University College.
- 1992 - 1997 Judge, Bennett Graduate Research Society Annual Research Day, Division of Research and Graduate Education, College of Medicine, The Ohio State University.
- 1983 - 1999 Minority Student Program for High School Students, Minority Student Research in Clinical Microbiology. Advisor to Student Groups and Organizations:
- 1986 - 1993 Exemplar: Women in Science, Engineering, and Mathematics,

### **INVITED PRESENTATIONS:**

1. **Ayers LW:** ASM Foundation lecturer, Joint Meeting ASM Region II, *Emerging Infections and Disruptive Technologies in the 21<sup>st</sup> Century*, Lewes, De, April 7, 2000.
2. **Ayers LW:** ASM Foundation Lecturer, *Emerging Infections and Disruptive Technologies in the 21<sup>st</sup> Century*, Florida Branch ASM Meeting, Tampa, FL, Feb 25, 2000.
3. **Ayers LW:** Speaker, *Infectious Diseases 1999: Strokes, Heart Attacks, Alzheimer's Disease, Kawasaki's Disease, Arthritis, and Other Wretched Diseases*, The Ohio State University Pathology Conference, Columbus, Ohio, May 24, 1999.
4. **Ayers LW:** Speaker, *Diagnosis of Infectious Diseases: Are We Ready for the Third*

- Millennium?*, Association of Clinical Scientists, Columbus, Ohio, May 7, 1999.
5. **Ayers LW:** ASM Foundation Lecturer, *Preliminary Evidence – Direct Examination of Infected materials*, Kentucky-Tennessee ASM Branch Meeting (ASM), Oak Ridge, TN, April 17, 1999.
  6. **Ayers LW:** ASM Foundation Lecturer, *Infectious Disease Diagnosis: Are we ready for the Third Millenium?*, Michigan Branch Spring Meeting (ASM), Ypsilanti, MI, April 10, 1999.
  7. **Ayers LW:** Speaker, *Preventing Clinical Microbiology from Moving to Third world Status*, William May Memorial Lecture, Annual Association for Clinical Microbiology (SACM), Birmingham, AL, September 24, 1998.
  8. William May Memorial Lecture, Annual Association for Clinical Microbiology (SACM), Birmingham, AL, September 24, 1998.
  9. **Ayers LW:** Speaker, *Direct Microscopy: Primary Evidence for Infectious Etiologies*, Annual Association for Clinical Microbiology (SACM), Birmingham, AL, September 24, 1998.
  10. **Ayers LW:** Speaker, *Rabies: The March West*, Symposium, Division Y Lecture, : Current Challenges for Public Health Laboratories, 98<sup>th</sup> General Meeting, American Society for Microbiology, Atlanta, GA, May 19, 1998.
  11. **Ayers LW:** Speaker, *New Thyroid Tests for Newborn Screening*, Ohio Academy of Pediatrics, Radisson Harbour Inn, Sandusky, OH August 2, 1997.
  12. **Ayers LW:** Speaker, "How to Make the Most of the Gram Stain", South Central Association for Clinical Microbiology, Toledo, OH. September 18-20, 1997.
  13. **Ayers LW:** Speaker, Emerging Pathogens, Fall Seminar, Chapter 26 APIC, Sinclair University, Dayton, OH. October 24, 1997.
  14. **Ayers LW:** Speaker, Chronic Infectious Diseases, Eastern Pennsylvania Branch ASM, "Helicobacter pylori and Ulcer Disease", Philadelphia, Pa, Nov 6-7, 1997.
  15. **Ayers LW:** Speaker, "Gram Stains/Direct Specimen Analysis-Case Studies", SEACM, Charlotte, N.C. Nov 12-15, 1997.
  16. **Ayers LW:** Speaker, Primary Evidence-A case for Direct Examination of Infected Materials, Northern California Branch, American Society Microbiology, Concord, California, Nov 17- 21, 1997.
  17. **Ayers LW:** Speaker, Parasites in Blood Smears, Teleconference Network of Texas, December 17, 1996.
  18. **Ayers LW:** Speaker, Infectious Diseases in the Year 2000, Ohio State University Student Health, Columbus, OH, October 24, 1995.
  19. **Ayers LW:** Speaker, Worldwide Epidemics with Multi-antibiotic Resistant Bacteria,"Are We Ready for the Years 2000?", Southwestern Association of Clinical Microbiology, Kansas City, KS, October 21, 1995.
  20. **Ayers LW:** Speaker, Direct Smear Seminar, Dahl-Chase Pathology Association, Bangor, Maine, October 11, 1995.
  21. **Ayers LW:** Speaker, Endoscopic Sterilization, Mary Rutan Hospital, Bellefontaine, OH, September 1, 1995.
  22. **Ayers LW:** Speaker, Antibiotic Therapy for Drug Resistant *Staphylococcus Enterococcus*, and *Streptococcus pneumoniae* Organisms, Logan County Medical Society Meeting, Bellefontaine, OH, June 21, 1995.
  23. **Ayers LW:** Speaker, Physician Education: How to get them to participate in infection control education: APIC, Columbus, OH, June 13, 1995.
  24. **Ayers LW:** Speaker, Tuberculosis Testing: Marion Medical Center, Marion, OH, March 30, 1995.

25. **Ayers LW:** Speaker, Bacteria Resistant to Current Antibiotics: Ohio Department of Human Services, Columbus, OH, December 7, 1994.
26. **Ayers LW:** Speaker, Antibiotics, Bugs, and Care: North Eastern Critical Care Society, Cleveland OH, November 15, 1994.
27. **Ayers LW:** Speaker, Patient Management in Infectious Disease: MedOhio Physicians, Columbus, Ohio, September 15, 1994.
28. **Ayers LW:** Speaker, Multi Resistant Organisms: Source Control, Medical Center Grand Rounds, The Ohio State University Medical Center, Department of Physical Medicine and Rehabilitation, Davis Center, Columbus, OH, June 13, 1994.
29. **Ayers LW:** Speaker, Tuberculosis Today. Recent Advances in Pulmonary Disease VI, American Lung Association of Ohio, Medical College of Ohio, Eleanor N. Dana Conference Center, Toledo, OH, March 16, 1994.
30. **Ayers LW:** Workshop Director, Improving Microbial identification by Cellular Fatty Acid Analysis: Topic-The Importance of Quality Control in Database preparation and Library Generation in the MIS, 94th ASM General Meeting, Las Vegas, NV, May 23, 1994.
31. **Ayers LW:** Workshop Director, Use of Gas Chromatography for the Identification of Aerobic Bacteria in the Clinical Microbiology Laboratory, 93rd American Society for Microbiology (ASM), Atlanta Marriott marquis Hotel, Atlanta, GA, May 16, 1993.
32. **Ayers LW:** Speaker, Direct Microscopy Primary Evidence, Direct Detection Symposium. Southern California American Society for Microbiology Annual Meeting, San Diego Princess Resort, San Diego, CA, November 6, 1993.
33. **Ayers LW:** Speaker, Drug Resistant Tuberculosis. The 1993 Ohio Society for Respiratory Care Annual Meeting, Airport Radisson Hotel, Columbus, OH, October 14, 1993.
34. **Ayers LW:** Speaker, Hospital Induced Infections. 7th Annual Critical Care Nursing: Quest for Excellence, Ramada University Inn, Columbus, OH, September 29, 1993.
35. **Ayers LW:** Speaker, Clinical Pathologic Correlations, Medical Center Grand Rounds, Rhodes Hall, The Ohio State University Hospitals, Columbus, OH, May 20, 1993.
36. **Ayers LW:** Speaker, Disease Transmission and Infection Control Principals, Conference on Infectious Disease Control in Ophthalmology, Rhodes Hall, The Ohio State University Hospitals, Columbus, OH, February 11, 1993.
37. **Ayers LW:** Speaker, The Expanding Spectrum of Infectious Diseases of the Gut, Ohio Society of Pathologists, Winter Meeting, Columbus, OH, January 23, 1993.
38. **Ayers LW:** Speaker, Occupational Safety and Health Issues, Medical Center Grand Rounds, Rhodes Hall, The Ohio State University Hospitals, Columbus, OH, April 22, 1992.
39. **Ayers LW:** Speaker, Laboratory Management of Broncho-alveolar Lavage Specimens: Protocol for Immunosuppressed Patients, 1992 SCACM Teleconference series, Columbus, OH, November 12, 1992.
40. **Ayers LW:** Speaker, Staining and Examination of BAL Sediments, The University of W.VA., Morgantown, W.VA., November 20, 1992.
41. **Ayers LW:** Speaker, Morphologic Characteristics of Infectious Agents in BAL Fluids, The University of W. VA., Morgantown, W.VA., November 20, 1992.
42. **Ayers LW:** Speaker, The Application of STAT Broncho-alveolar Lavage to Diagnosis in Acute Respiratory Insufficiency, The University of W. VA., Morgantown, W.VA., November 20, 1992.
43. **Ayers LW:** Speaker, Campos JM, Gilligan PH, Land GA, Staneck JL, and Zabransky RJ: Participants in lively round table discussion, NACMID's Ninth Annual Meeting, Holiday Inn The Center of New Hampshire, Manchester, NH, June 10, 1992.

44. **Ayers LW:** Speaker, Primary Evidence - An Argument for Direct Microscopy of Infected Materials, General Session, NACMID's Ninth Annual Meeting, Holiday Inn The Center of New Hampshire, Manchester, NH, June 10, 1992.
45. **Ayers LW and Ortalano J:** Speakers, Elimination of the Risks Associated with Anesthesia Equipment and Cross Contamination. Department of Anesthesiology, The Ohio State University hospitals, Columbus, OH, January 29, 1992.
46. **Ayers LW:** Speaker, Direct Microscopy Infected Materials, 1991 American Society for Medical Technology Region VI Meeting, Overland Park Marriott, Overland Park, KS, October 2-4, 1991.
47. **Ayers LW:** Speaker, Vaccine Update, The Society for Infection Control in Ohio, Solutions to Pesky Problems in Infection Control, Hilton-Worthington, Columbus, OH August 8, 1991.
48. **Ayers LW:** Speaker, New and Important Species of *Staphylococci*, University Hospital, London, Ontario, Canada, July 30, 1991.
49. **Ayers LW and Joseph M. Plouffe:** Speakers, CPC Medical Ground Rounds, The Ohio State University Hospitals, Columbus, OH, June 27, 1991.
50. **Ayers LW:** Speaker, Formulary Antibiotic Decisions (Cephalosporins). Sponsor: Elmhurst Memorial Hospital, Lombard, IL- June 18, 1991.
51. **Ayers LW:** Symposium Speaker, Session 107, Transplantation Issues Multifaceted Effects on Microbiology, Rapid Diagnosis of Cytomegaloviral Disease in Transplant Patients: Laboratory Tests and the Effect of Ganciclovir Therapy on Laboratory Tests. 1991 Annual Meeting ASM, Dallas, TX, May 5-9, 1991.
52. **Ayers LW:** Speaker, Organ/ Bone Marrow Transplant Associated Infections: What Should Our Laboratories Be Doing? The Ohio Society for Medical Technology 1991 Annual Meeting, Sheraton Suites, Cuyahoga Falls, Akron, OH, April 25, 1991.
53. **Ayers LW:** Speaker, Choices and Consequences in Selection of Ceph-Am Antibiotics, Northeast Regional Medical Center Continuing Education Seminar, Pharmacy Department, Birmingham, AL, April 5, 1991.
54. **Ayers LW:** Speaker, The Rational Use of Cephalosporins In The Hospital Setting, University of Alabama, Huntsville Medical School, 109 Governors Dr., SW, Huntsville, AL, April 4, 1991.
55. **Ayers LW and Dorinsky PM:** Speakers, The Role of Bronchoalveolar Lavage in Diffuse Infiltrative Lung Disease; The Ohio State University Hospitals Experience. Internal Medicine Grand Rounds, The Ohio State University Hospitals, Columbus, OH, March 21, 1991.
56. **Ayers LW:** Speaker, Anticipating the Unexpected; Direct Microscopy for Infectious Diseases, The Earline Kutscher Memorial Lecture, Texas Society for Clinical Microbiology, The University of Texas, Southwestern Medical Center at Dallas, Dallas, TX, January 15, 1991.
57. **Ayers LW:** Speaker, Infectious Cytopathology: STAT Examination of BAL Fluids, Pathology Residents, The University of Texas, Southwestern Medical Center at Dallas, TX, January 15, 1991.
58. **Ayers LW:** Speaker, Infection Control in Your Practice, Doctors Hospital, Columbus, OH, November 30, 1990.
59. **Ayers LW:** Speaker, Conducted Workshop, Direct Microscopy of Infected Materials, Workshop, SWACM-1990 Annual Meeting, Tulsa, OK, October 17, 1990.
60. **Ayers LW:** Speaker, Rational Selection of Antibiotics, Doctors Hospital, Columbus, OH, May 24, 1990.
61. **Ayers LW:** Speaker, Anticipating the Unexpected: Direct Microscopy of Unusual Infections, American New York City Branch, Society of Microbiology, New York, NY, April 30, 1990.
62. **Ayers LW:** Speaker, Transplant Associated Infections: What Should the Lab Be Doing?, 1990

- Spring Meeting SCACM, Hyatt Regency Hotel, Louisville, KY, March 29-31, 1990.
63. **Ayers LW:** Speaker, Ciprofloxacin/Norfloxacin: The Good, The Bad, and The Ugly, Clinical Pathology Conference, Marysville, OH, February 28, 1990.
  64. **Ayers LW:** Speaker, A Selected Antibiotic Formulary: Choices and Consequences 1984-89. Department of Laboratory Medicine, Mayo Medical Foundation, Rochester, MN, January 25, 1990.
  65. **Ayers LW:** Speaker, Rational Selection of Hospital Formulary Antibiotics: The Cepheids. Central Minnesota Association of Hospital Pharmacists, St. Paul, MN, January 24, 1990.
  66. **Ayers LW:** Speaker, Formulary Antibiotics: Choices and Consequences, Infectious Disease Conference, Veterans Hospital, Minneapolis, MN, January 24, 1990.
  67. **Ayers LW:** Speaker, The Rational Use of Microbiology Data in Monitoring the Patient with Infection. Pharmacy Symposium, The Ohio State University, Columbus, OH, November 13, 1989.
  68. **Ayers LW:** Speaker, Discussion of Stomatococcus and the New Staphylococci, City Seminar, Cleveland Clinic Foundation, Cleveland, OH, October, 18, 1989.
  69. **Ayers LW:** Speaker, The Stat Bronchoalveolar Lavage. Pathology Conference, Cleveland Clinic Foundation, Cleveland, OH, October 18, 1989.
  70. **Ayers LW:** Speaker, Microbial Cell Wall Fatty Acid Analysis Applications to Organism Identification and Epidemiology. Microbiology Seminar, Cleveland Clinic Foundation, Cleveland, OH, October 18, 1989.
  71. **Ayers LW:** Speaker, Rational for a Selected Antibiotic Formulary, Joint Microbiology Infectious Disease Conference, Cleveland Clinic Foundation, Cleveland, OH, October 17, 1989.
  72. **Ayers LW:** Speaker, Histopathology of Infectious Diseases, Pathology Resident Conference, Cleveland Clinic Foundation, Cleveland, OH, October 17, 1989.
  73. **Ayers LW:** Speaker, Rational Use of Formulary Antibiotics, Quincy City Hospital, Department of Surgery, Quincy, MA, October 5, 1989.
  74. **Ayers LW:** Speaker, Chorioamnionitis, OB-GYN Grand Rounds, Worcester Memorial Hospital, Worcester, MA, October 4, 1989.
  75. **Ayers LW:** Speaker, Rational Use of Formulary Antibiotics, Medical-Surgical Grand Rounds, Exeter Hospital, Exeter NH, October 3, 1989.
  76. **Ayers LW:** Speaker, Antibiotic Selections in Medical Patients, Medical Grand Rounds, Greenville Memorial Hospital, Department of Internal Medicine, Greenville, SC, September 1989.
  77. **Ayers LW:** Speaker, Overcoming Bacterial Resistance; A Guide for Hospital Antibiotic Selection, Invited Guests, Amway Grand Plaza Hotel, Grand Rapids, MI, September 6, 1989.
  78. **Ayers LW:** Speaker, Antibiotic Formulary Selection, Michigan Health Center, Detroit, MI, September 5, 1989.
  79. **Ayers LW:** Speaker, Chorioamnionitis: Antibiotics and Organisms, Medical Grand Rounds, Charlotte Memorial Hospital, Charlotte, NC, June 6, 1989.
  80. **Ayers LW:** Speaker, Cefizoxime vs. Cefoxitin and Cefotetan, Mercy Hospital, Toledo, OH, June 5, 1989.
  81. **Ayers LW:** Speaker, Rational Selection of Antibiotics for the Hospital Formulary, Hilton Hotel, Lisle, IL, May 3, 1989.
  82. **Ayers LW:** Speaker, Management of Difficult Infections in the Hospital Settings, Mercy Center for Health Care Services and Copley Memorial Hospital, Aurora, IL, May 2, 1989.
  83. **Ayers LW:** Speaker, Rational Selection & Use of Antibiotics for Hospital Formularies, Good

Samaritan Hospital, Pottsville, PA, April 4, 1989.

84. **Ayers LW:** Speaker, Chorioamnionitis: Drugs and Bugs, OB-GYN Grand Rounds, The Medical College of Ohio, Toledo, OH, February 2, 1989.

**1973 – 1988** Invited Presentations omitted (78)

### **EXTENSION AND CONTINUING EDUCATION INSTRUCTION:**

**A. National Continuing Education Workshops, Seminars, Workshops and Conferences** sponsored by the **American Society for Microbiology.**

1. **Ayers LW:** Workshop Director, Improving Microbial Identification by Cellular Fatty Acid Analysis: Topic-The Importance of Quality Control in Database Preparation and Library Generation in the MIS, 94th ASM General Meeting, Las Vegas, NV, May 23, 1994.
2. **Ayers LW:** Workshop Director, Use of Gas Chromatography for the Identification of Aerobic Bacteria in the Clinical Microbiology Laboratory, 93rd American Society for Microbiology (ASM), Atlanta Marriott Marquis Hotel, Atlanta, GA, May 16, 1993.
3. **Ayers LW** and Buesching WJ: 1991 ICAAC Workshop W6, Detection and Management of Transplant/Implant Influence, 31st Interscience Conference on Antimicrobial Agents and Chemotherapy, McCormick Place, Chicago, IL, September 29, 1991.
4. **Ayers LW:** Director and Speaker, Seminar Infectious Disease Diagnosis by Direct Microscopy, American Society Microbiology National Meeting, Washington, DC, March 23, 1986.

**B. National Continuing Education Seminars and Conferences** sponsored by the **American Society for Clinical Pathologists.**

1. **Ayers LW:** Workshop Faculty, Advanced microbiology: Recent developments and new frontiers. American Society Clinical Pathologists Center Workshops. San Francisco, CA, January 1983, Lake Buena Vista, FL, February 1982, Houston, TX, February 1981, and Chicago, IL, January 1977
2. **Ayers LW:** Workshop Faculty, Simultaneous bacterial identification and antimicrobial susceptibility testing. American Society Clinical Pathologist. Chicago Education Center, IL, June 1980, 1979, 1978, and 1977.
3. **Ayers LW:** Workshop Director, Evaluation of infected materials by direct microscopy, American Society Clinical Pathologists, Spring and Fall ASCP Meetings and ASCP Regional Workshop. Omaha, NE, February 11, 1986, Las Vegas, NV, November 1985, New Orleans, LA, October 1984, San Diego, CA, January 1984, Chicago, IL, April 1983, Miami, FL, October 1982, New Orleans, LA, March 1982, Milwaukee, WI, October 1981, CAAMA Regional Program, Arlington, VA, May 1980, Atlanta, GA, March 1980, Las Vegas, NV, November 1979, Washington, D.C., July 1979, New Orleans, LA, March 1979, Denver, CO, February 1979, St. Louis, MO, October 1978, Chicago, IL, June 1978, Dallas, TX, March 1978, and Las Vegas, NV, October 1977
4. **Ayers LW:** Workshop Faculty, Review in clinical microbiology. American Society Clinical Pathologists, Center Workshop. Las Vegas, NV, March 1984, San Antonio, TX, May 1983, Williamsburg, VA, April 1982, Williamsburg, VA, 1980, Chicago, IL, April, 1981, Washington DC, July 1979, Atlanta, GA, April 1979, Chicago, IL, May 1978.
5. **Ayers LW:** Co-Director Seminar, Pathogens of contemporary interest, College American Pathologist/American Society Clinical Pathologist. Las Vegas, NV, October 1985, Miami, FL, October 1982, New Orleans, LA, March 1982 and Las Vegas, NV, October 1981.

6. **Ayers LW:** Co-Director Seminar, Histopathology of infectious diseases. American Society Clinical Pathologist, Continuing Education Program. New Orleans, LA, October 1984, San Diego, CA, May 1983, Chicago, IL, April 1983 and New Orleans, LA, March 1982.
7. **Ayers LW:** Speaker, Cost Effective Microbiology Services in: Providing effective laboratory services in the face of funding cuts: Strategies and Tactics. College American Pathologist /American Society Clinical Pathologist Symposium. New Orleans, LA, October 1984, Las Vegas, NV, October 1985 and Chicago, IL, April 1985
8. **Ayers LW:** (Director) and Barnishan J: Review or Update in Clinical Microbiology for Medical Technologists and Laboratory Scientists. CAMA-CCE Joint American Society for Clinical Pathologists Project. Anaheim, CA, February 1990, San Diego, CA, February 1987, Chicago, IL, March 1985, Orlando, FL, February 1986, Washington, DC, May 1984, Chicago, IL, March 1984, Detroit, MI, May 1982(Ayers), Columbus, OH, March 1980(Ayers), Tarrytown, NY, April 1979(Ayers) and New Orleans, LA, March 1979(Ayers).
9. **Ayers LW:** (Director) and T. Sodeman, Microbiology of the Respiratory Tract. American Society Clinical Pathologists, Fall National Meeting. Las Vegas, NV, October 1981, Atlanta, GA, March 1980 and Las Vegas, NV, November 1979
10. **Ayers LW:** Seminar Director, First clinical microbiology continuing education faculty training program. Co-sponsored American Society Microbiology and American Society Clinical Pathologist, Chicago, IL, May 1980.

**C. ASCP National Teleconference Series.** These programs have from 600 to 1500 individual participants throughout the continental United States.

1. **Ayers LW:** Director and Speaker, Fall Teleconference, Series: Direct Microscopy: Infected Materials from Special Sites and Special Patients. November 17 and 24, 1987.
2. **Ayers LW:** Director and speaker, Teleconference Spring Series, United States, American Society Clinical Pathologists, Infectious disease diagnosis: Interpretation of the Gram stained direct smear: Part 1: Characteristics of the elements of the direct smear, June 11-12, 1985. Part 2: Specific infectious disease diagnosis from smears, June 18-19, 1985.
3. **Ayers LW:** Director and Speaker, Session: Staphylococci. American Society for Clinical Pathology Teleconference Series, November 1982, and April 1983.

**D. ASCP National Meeting Scientific Symposia.** These programs have from 100 to 400 participating physicians (pathologists). Participants are largely from the United States, but there is a small international representation.

1. **Ayers LW,** (Director and Speaker), Wear D, and Duray PH: Scientific Symposium "New infectious diseases--tissue and laboratory diagnosis". Spring Meeting, American Society Clinical Pathologists/College American Pathologists, Las Vegas, NV, March 1984.
2. **Ayers LW:** Director, Scientific Symposium: Acquired Immune Deficiency and Opportunistic Infections. Fall Meeting American Society Clinical Pathologists, St. Louis, MO, October 1983.
3. **Ayers, LW:** Faculty, Scientific Symposium in Microbiology. College American Pathologist/American Society Clinical Pathologist, Spring Meeting, New Orleans, LA, March 1982.