

November 21, 2000

Helge H. Wehmeier
President and Chief Executive Officer
Bayer Corporation
100 Bayer Road
Pittsburgh, PA 15205-9741

Dear Mr. Wehmeier:

The undersigned organizations, health professionals, and scientists urge the Bayer Corporation to consent to the United States Food and Drug Administration's (FDA) proposal to withdraw approval for the fluoroquinolone antibiotic enrofloxacin (trade name Baytril7) for use in poultry in the United States. We are deeply concerned about the contribution of that use of fluoroquinolones to increasing rates of fluoroquinolone resistance, especially in food-borne bacteria such as *Campylobacter* and *Salmonella*.

A temporal relation between the introduction of fluoroquinolones for use in food animals and quinolone* resistance in *Campylobacter* and *Salmonella* has been clearly documented.^{1,2} Rates of quinolone resistance in *Campylobacter jejuni* in Minnesota soared from 1.3 percent to 10.2 percent between 1992 and 1998.³ Although national data for human *Campylobacter* isolates were not collected until 1997, quinolone resistance levels were clearly low in the early 1990s; however, they soared to 12.9 percent in 1997 and 17.6 percent in 1999.⁴ Resistance has already started to compromise the therapeutic efficacy of ciprofloxacin in patients with *Campylobacter* infections. While ciprofloxacin resistance among human *Salmonella* isolates remains at 0.1 percent, there is clear evidence of "minimal inhibitory concentration (MIC)** creep" that indicates the emergence of quinolone resistance in *Salmonella* as well.^{4,5}

The FDA recently gave public notice of an opportunity for a hearing on withdrawing enrofloxacin for use in poultry, saying: "CVM is concerned that the harm from fluoroquinolone-resistant *Campylobacter* infections will continue to increase such that more people will be unable to be effectively treated with fluoroquinolones when those drugs are needed for human illness."⁶ We are concerned that if Bayer requests a hearing, enrofloxacin would be used during that possibly several-year process, leading to even higher levels of resistance.

Abbott Laboratories is voluntarily accepting FDA's recommendation to withdraw its fluoroquinolone for use in poultry. We strongly urge Bayer to similarly demonstrate its corporate responsibility by withdrawing enrofloxacin (Baytril7) for use in poultry immediately.

Thank you for your consideration.

* Quinolones are a precursor class of antibiotics to fluoroquinolones. Quinolone resistance usually indicates resistance or reduced susceptibility to fluoroquinolones.

** Minimal inhibitory concentration (MIC) is the drug concentration required to inhibit growth of an organism. An increase in the MIC for a particular drug ("MIC creep") is an indicator that bacteria are becoming less susceptible to that drug.

Sincerely,

- American College of Preventive Medicine
- American Medical Association
- American Public Health Association
- Canadian Association of Physicians for the Environment
- People's Medical Society

Nicole Amorine, R.N., B.S.N.
Clinical Coordinator
Ke Ola Mamo
Honolulu, HI

Laura Anderko, R.N., Ph.D.
Assistant Professor
School of Nursing
Northern Illinois University
DeKalb, IL

Mary-Wynne Ashford, M.D., Ph.D.
Co-President
International Physicians for Prevention of
Nuclear War
Victoria, BC, Canada

Sarah Bacica, R.N.
Community Nurse Consultant
Washington State Department of Social and
Health Services
Tacoma, WA

Samuel L. Baker, Ph.D.
Associate Professor of Health
Administration
University of South Carolina School of
Public Health
Columbia, SC

John Balbus, M.D., M.P.H.
Associate Professor of Environmental and
Occupational Health
The George Washington University
Washington, DC

Richard D. Baldwin, M.D.
Pine Creek Township, PA

K. Bandell, R.N.
Norwalk, CA

Thomas C. Banever, M.D.
Assistant Clinical Professor of Surgery
University of Connecticut School of
Medicine
Farmington, CT

Sharon Baron, M.B.A., M.P.H.
Boston, MA

April Beckett, R.N., M.S.N.
Family Nurse Practitioner
Ojai, CA

Barbara Berney, M.P.H.
Consultant
Clean Water Fund
Boston, MA

Robert M. Bernstein, M.D.
President
Regional Endocrinology Associates, P.C.
Santa Fe, NM

Bettina Bickel, R.N., B.S.N., C.C.R.N.
Glendale, AZ

Martin J. Blaser, M.D.
Frederick H. King Professor of Internal
Medicine
Chairman, Department of Medicine
Professor of Microbiology
New York University School of Medicine
New York, NY

Ronald I. Blum, M.D.
Medical Director
Milliken Medical Center
Island Falls, ME

Clay Bordley, M.D., M.P.H.
Chief, Division of Community Pediatrics
Department of Pediatrics
University of North Carolina School of
Medicine
Chapel Hill, NC

Frank G. Bottone, Jr., M.S.
Biologist
National Institute of Environmental Health
Sciences
Research Triangle Park, NC

Kent J. Bransford, M.D.
Climate Change Medical Consultant
Environment and Health Program
Physicians for Social Responsibility
Carmel, CA

Charlotte Brody, R.N.
Coordinator, Health Care Without Harm
Falls Church, VA

Laura Burns, R.N., B.S.N.
Public Health Nurse Supervisor
Virginia Department of Health
Chesterfield, VA

Maria Lourdes Caparas, M.T., M.P.H.
Research Assistant/Coordinator
The George Washington University
Medical Center
Washington, DC

Lucia C. Cargill, R.N., Ph.D.
Associate Clinical Professor
Department of Psychiatry and
Behavioral Health
Medical College of Wisconsin
Milwaukee, WI

Betty Carlisle, M.D.
Physician
United States Antarctic Program
McMurdo Station, Antarctica

Jayshree Chander, M.D.
Clinical Faculty
University of California at San Francisco
San Francisco, CA

Mei-Ling Chang, M.P.H.
Director
Hui Noke Ola Pono
Wailuku, HI

David Christiansen, M.D.
Department of Emergency Medicine
Occupational Medicine Services
Hunterdon Medical Center
Flemington, NJ

Susan Clarke, M.M.O.C.
Director
Environmental Health Advocacy League
Concord, MA

Dennis A. Clements, M.D., M.P.H., Ph.D.
Associate Professor of Pediatrics and
Infectious Disease
Duke University Medical Center
Durham, NC
Adjunct Associate Professor of
Epidemiology
University of North Carolina School of
Public Health
Chapel Hill, NC

J. Michael Cline, M.D.
Staff Physician
HealthPartners
St. Paul, MN

Theo Colborn, Ph.D.
Senior Program Scientist
World Wildlife Fund
Washington, DC

Larry Culpepper, M.D., M.P.H.
Chairman
Department of Family Medicine
Boston University School of Medicine
Boston, MA

Steve Daniels, M.D.
Clinical Assistant Professor of Medicine
University of Southern California School of
Medicine
Emergency Medicine Physician
Cottage Health System
Santa Barbara, CA

David E. Dassey, M.D.
Medical Epidemiologist
Acute Communicable Disease Control
Department of Health Services
Los Angeles, CA

Lauren DeAlleaume, M.D.
Assistant Professor of Family Medicine
New York Medical College
Yonkers, NY

James M. Diamond, M.D.
Pediatrician
Berkeley, CA

Dena Dickinson, R.N., M.S.
Director, Ambulatory Public Health
Programs
Santa Clara Valley Ambulatory
Community Health Services
San Jose, CA

Jacob Dijkstra, M.D.
Staff Physician
Cleveland Clinic Foundation
Cleveland, OH

Tom Dixon, M.D.
Staff Physician
Student Health Services
University of California at Santa Barbara
Santa Barbara, CA

Donald Dougall, D.Phil.
Research Professor of Botany (retired)
University of Tennessee at Knoxville
Knoxville, TN

Mary Ann Drake, R.N., Ph.D.
Associate Professor of Nursing
Webster University
St. Louis, MO

Vincent Dufort, Ph.D.
Epidemiologist
Northeast Health Care Quality Foundation
Dover, NH

Robert A. Duncan, M.D., M.P.H.
Infectious Disease Section
Lahey Clinic
Burlington, MA

Catherine J. Egan, M.D.
Family Medicine Physician
Columbia Road Health Services
Washington, DC

Richard T. Ellison III, M.D.
Professor of Medicine, Microbiology, and
Molecular Genetics
University of Massachusetts Medical School
University of Massachusetts Memorial
Medical Center
Worcester, MA

Roy G. Farrell, M.D.
Chief of Emergency Services
Group Health Cooperative
Seattle, WA

George Feldman, M.D.
Clackamas, OR

Steven S. Foldes, Ph.D.
Senior Research Investigator
Center for Tobacco Reduction and Health
Improvement
Blue Cross and BlueShield of Minnesota
St. Paul, MN

Bennie F. Fore, III, M.D.
Emergency Medicine Physician
Third Coast Emergency Physicians
Austin, TX

Julia Frank, M.D.
Assistant Professor of Psychiatry
The George Washington University
Washington, DC

Laura Freimanis, M.D., Ph.D.
Research Fellow
Center for Health Promotion and Prevention
Research
University of Texas School of Public Health
Houston, TX

Lorne K. Garrettson, M.D.
Professor Emeritus
Departments of Pediatrics and
Environmental and Occupational
Medicine
Emory University
Atlanta, GA

Vincent F. Garry, M.D.
Professor and Director
Environmental Medicine and Pathology
University of Minnesota
Minneapolis, MN

Arnold P. Gass, M.D.
Clinical Professor of Medicine
University of California at San Diego
School of Medicine
San Diego, CA

Trish Gedarovich, R.N., M.P.H.
Project Manager
Alliance for the Prudent Use of Antibiotics
Boston, MA

Deborah Ginsburg, M.D.
Assistant Professor
Department of Family Medicine
University of Medicine and Dentistry of
New Jersey/Robert Wood Johnson
Medical School
New Brunswick, NJ

S.Z. Girgin, M.D.
Boston University
Boston, MA

Lynn Goldman, M.D., M.P.H.
Professor, Environmental Health Sciences
Johns Hopkins School of Hygiene and
Public Health
Baltimore, MD

J. Gottschalk, Dr.P.H.
Professor
Texas A & M University
Laredo, TX

Robert M. Gould, M.D.
President
San Francisco Bay Chapter
Physicians for Social Responsibility
Berkeley, CA

Tee L. Guidotti, M.D.
Chair
Department of Environmental and
Occupational Health
School of Public Health and Health Services
The George Washington University
Washington, DC

Howard S. Hada, Ph.D.
Chair of Microbiology
College of Medical Sciences
Nova Southeastern University
Ft. Lauderdale, FL

Douglas Hadley, M.D.
Oak Park, IL

Debbie Hall, M.D.
Internal Medicine
Montefiore Hospital
Bronx, NY

Thomas Hall, M.D., Dr.P.H.
Lecturer, Department of Epidemiology and
Biostatistics
University of California at San Francisco
San Francisco, CA

John T. Harrington, M.D.
Dean
Tufts University School of Medicine
Boston, MA

Andrew Harris, M.D.
Ophthalmologist (retired)
Past President, Physicians for Social
Responsibility
Salem, OR

William D. Hawley, M.D., M.P.H.
United States Public Health Service (retired)
Picayune, MS

Eric Henley, M.D., M.P.H.
Head, Department of Family and
Community Medicine
University of Illinois at Rockford College
of Medicine
Rockford, IL

Martha R. Herbert, M.D., Ph.D.
Center for Morphometric
Analysis/Pediatric Neurology
Harvard Medical School
Massachusetts General Hospital
Charlestown, MA

Ken Hilsbos, M.D.
Family Medicine Physician
Fairmont Clinic
Fairmont, WV

Sherilynn J. Hummel, M.D.
Gynecologic Oncologist
Alexandria, VA

John J. Hutton, M.D.
Dean
University of Cincinnati College of
Medicine
Cincinnati, OH

John Imsande, Ph.D.
Professor Emeritus
Department of Agronomy
Professor Emeritus
Department of Zoology and Genetics
Iowa State University
Ames, IA

Henry Isenberg, Ph.D.
Chief Emeritus and Consultant,
Microbiology
Long Island Jewish Medical Center
New Hyde Park, NY
Professor of Pathology
Albert Einstein College of Medicine
Bronx, NY
Consultant and Professorial Lecturer
Mount Sinai School of Medicine
New York, NY

George A. Jacoby, M.D.
Head, Infectious Disease Department
Lahey Clinic
Burlington, MA
Associate Professor of Medicine
Harvard Medical School
Boston, MA

Stephen Jay, M.D.
Professor
Chair, Department of Public Health
Indiana University School of Medicine
Indianapolis, IN

Charles L. Judson, Ph.D.
Professor Emeritus of Entomology
University of California at Davis
Davis, CA

Kathy Kaiser-Rogers, Ph.D.
Associate Director, Cytogenetics Laboratory
Department of Pediatrics
University of North Carolina School of
Medicine
Chapel Hill, NC

William E. Katzin, M.D., Ph.D.
Medical Director of Laboratories
Deaconess Hospital
Assistant Clinical Professor of Pathology
Case Western Reserve University School of
Medicine
Cleveland, OH

Alan S. Keitt, M.D.
Archer, FL

Carole Kelly, R.N., Ph.D.
Consultant
CK Associates
Napa, CA

Harry L. Keyserling, M.D.
Professor of Pediatrics
Emory University School of Medicine
Atlanta, GA

Cynthia Kilbourn, M.D.
Associate Director, Family Practice
Residency Program
Department of Family and Community
Medicine
Lancaster General Hospital
Lancaster, PA

Darrell G. Kirch, M.D.
Senior Vice President for Health Affairs
and Dean
Pennsylvania State University College of
Medicine
Hershey, PA

Jonathan Kotch, M.D., M.P.H.
Professor and Associate Chair
Department of Maternal and Child Health
University of North Carolina School of
Medicine
Chapel Hill, NC

Karen Ksiazek, M.D.
Medical Director, Rehabilitation
St. Mary's Hospital and Regional Medical
Center
Grand Junction, CO

Carol Langford, M.D.
Instructor in Pediatrics
Harvard Medical School
Brookside Community Health Center
Jamaica Plain, MA

Joyce C. Lashof, M.D.
Professor Emerita
School of Public Health
University of California at Berkeley
Berkeley, CA

Jack K. Leiss, Ph.D.
Epidemiologist
Durham, NC

James MacDonald, M.D.
Family Medicine Physician
Associate Professor, Five Branches Institute
Capitola, CA

Leonard Marcus, V.M.D., M.D.
Private Practitioner
Consultant, Tropical Medicine and
Zoonoses
Newton, MA

S. Michael Marcy
Clinical Professor of Pediatrics
University of Southern California School of
Medicine
University of California at Los Angeles
School of Medicine
Los Angeles, CA

Gina Margillo, M.A.
Community Education and Participation
Coordinator
California Department of Health
Oakland, CA

Monica Mattice, F.N.P.
Family Nurse Practitioner
Student Health Services
University of California at Santa Barbara
Santa Barbara, CA

Shawn E. McCandless, M.D.
Assistant Professor of Pediatrics
Division of Genetics and Metabolism
University of North Carolina School of
Medicine
Chapel Hill, NC

Judith McGahey, M.D.
Assistant Professor of Family Practice
University of North Carolina
Celo Health Center
Burnsville, NC

Allison McGeer, M.Sc., M.D.
Director, Infection Control
Mount Sinai Hospital
Toronto, Ontario, Canada

Paul F. McKenney, M.D.
Private Practitioner
Internal Medicine
Warwick, RI

Sharon Mech, M.H.S.A.
CMHC Systems
Columbus, OH

Howard Mielke, Ph.D.
Professor of Toxicology
College of Pharmacy
Xavier University of Louisiana
New Orleans, LA

J. Glenn Morris, Jr., M.D., M.P.H.
Professor and Chairman
Department of Epidemiology and Preventive
Medicine
University of Maryland School of Medicine
Baltimore, MD

Douglas R. Morrissey, M.D.
Family Practice Resident
Lancaster General Hospital
Lancaster, PA

Marion Moses, M.D.
Director, Pesticide Education Center
San Francisco, CA

Marianne Muhlebach, M.D.
Pediatric Pulmonologist
University of North Carolina School of
Medicine
Chapel Hill, NC

Anthony G. Musci, M.D.
Internist and Medical Staff Member
Department of Medicine
LDS Hospital
Salt Lake City, UT

Ardyth A. Norem, Ph.D.
Psychologist
Rio Verde, AZ

Dennis Novak, M.D.
Clinical Associate Professor
University of Medicine and Dentistry of
New Jersey/Robert Wood Johnson
Medical School
Chairman, Department of Family Practice
Community Medical Center
St. Barnabas Health Care System
Toms River, NJ

Kate O'Hara, R.N.
Nurse
Philadelphia, PA

Melva Okun, Dr.P.H.
Research Associate
University of North Carolina School of
Public Health
Chapel Hill, NC

Patricia Olmons, M.P.H.
Health Advocates
St. Paul, MN

Peter Orris, M.D., M.P.H.
Professor of Preventive and Internal
Medicine
Cook County Hospital/Rush Medical
College
Chicago, IL

Eric M. Ossowski, M.D.
Family Medicine Physician
Phoenix, AZ

David Ozonoff, M.D., M.P.H.
Chair, Department of Environmental Health
Boston University School of Public Health
Boston, MA

S. Scott Paist, III, M.D.
Chief of Geriatrics
Lancaster Health Alliance
Lancaster, PA

Lyn Paleo, Dr.P.H.
University of California at Berkeley
Berkeley, CA

Jack L. Paradise, M.D.
Professor of Pediatrics
University of Pittsburgh School of Medicine
Children's Hospital of Pittsburgh
Pittsburgh, PA

Jonathan Patz, M.D.
Assistant Professor of Environmental Health
Sciences
Johns Hopkins School of Hygiene and
Public Health
Baltimore, MD

Diane Paxton, M.S.
Director
Health Care Worker Development Program
Los Angeles, CA

Robert T. Pero, M.D., M.P.H.
Director, Urgent Care and Occupational
Medicine Clinic
Colorado Springs Health Partners, P.C.
Colorado Springs, CO

Richard M. Peters, M.D.
Professor Emeritus of Surgery and
Bioengineering
University of California at San Diego
School of Medicine
San Diego, CA

Alan S. Peterson, M.D.
Director of Community and Environmental
Medicine
Lancaster Health Alliance
Lancaster, PA

Phillip K. Peterson, M.D.
Professor of Medicine
University of Minnesota Medical School
Director, Infectious Diseases Division
Department of Medicine
Hennepin County Medical Center
Minneapolis, MN

Urs Pfefferkorn, M.D.
Department of Surgery
Bürgerspital, Switzerland

Wayne Price, M.D.
Associate Professor
Department of Pediatrics
University of North Carolina School of
Medicine
Chapel Hill, NC

Robin Pugh-Yi, Ph.D.
Research Associate
American Public Health Association
Vienna, VA

Maria Rangel, M.D., M.P.H.
Epidemiologist
Centers for Disease Control and Prevention
Atlanta, GA

Richard B. Ressman, M.D.
Private Practitioner
Orthopedic Surgery and Sports Medicine
Chicago, IL

Marc Rhoads, M.D.
Professor of Pediatrics
Division of Gastroenterology
University of North Carolina School of
Medicine
Chapel Hill, NC

Roberta Richardson, M.D.
Geriatric Psychiatrist
Lakewood, CO

Carla Rodriguez, M.P.H.
Epidemiologist
New York City Department of Health
New York, NY

Julio Rodriguez, R.N.
Nurse
Montgomery County Detention Center
Rockville, MD

Stephen H. Rovno, M.D.
Anesthesiologist
San Mateo, CA

Lourdes T. Sadanaga, Ph.D.
Retired Math Lecturer/Chemist
Davis, CA

A.M. Saeed, D.V.M., M.S., M.P.H., Ph.D.
Professor of Epidemiology and Public
Health
Michigan State University
East Lansing, MI

P. Salomon, M.D.
Pediatrician
United States Public Health Service
Rockville, MD

Ted Schettler M.D., M.P.H.
Science and Environmental Health Network
Boston, MA

Lisa Schwartz, N.P., R.D.
Adult Nurse Practitioner
Boston Healthcare for Homeless
Boston, MA

Sharon Scott, M.P.H.
Public Health Consultant
Durham, NC

J. Jina Shah, M.D., M.P.H.
Wayne, NJ

James A. Shapiro, Ph.D.
Professor of Microbiology
Department of Biochemistry and Molecular
Biology
University of Chicago
Chicago, IL

Diane Sharma, Ph.D.
Senior Epidemiologist
Tacoma-Pierce County Health Department
Tacoma, WA

Katherine M. Shea, M.D., M.P.H.
Adjunct Assistant Professor
Department of Community and Family
Medicine
Duke University Medical Center
Chapel Hill, NC

Luke Shoise, M.D.
Physician
Morehouse School of Medicine
Atlanta, GA

Vincent M.B. Silenzio, M.D., M.P.H.
Assistant Professor of Clinical Family
Medicine and Public Health
Associate Director, Center for Family
Medicine
Columbia University
New York, NY

Richard P. Silver, Ph.D.
Associate Professor of Microbiology and
Immunology
University of Rochester Medical Center
Rochester, NY

Thea Simmons, Psy.S., M.P.H.
Corporate Health
Detroit, MI

Bobby Singh, M.D.
Cleveland Heights, OH

W. Douglas Skelton, M.D.
Dean
Mercer University School of Medicine
Macon, GA

Daryl T. Smith, M.P.H.
Program Coordinator
Southern Area Health Education
Center/Border Health Education Center
Las Cruces, NM

Joseph R. Snow, M.D.
General Vascular Surgeon
Dartmouth-Hitchcock Clinic
Concord, NH

Gina M. Solomon, M.D., M.P.H.
Assistant Clinical Professor of Medicine
University of California at San Francisco
San Francisco, CA

Wayne C. Spiggle, M.D.
Internal Medicine
Braddock Medical Group
Cumberland, MD

Napna Spock, M.A.
Community Health Coordinator
Hui Noke Ola Pono
Wailuku, HI

Theodore L. Steck, M.D.
Professor
Department of Biochemistry and Molecular
Biology and the Environmental Studies
Program
University of Chicago
Chicago, IL

Frances Stewart, M.D.
Bethesda, MD

Hank Stoddard, D.V.M., D.T.V.M.
Owner and CVO
Shamrock Veterinary Clinic
Cross City, FL

Robert B. Stone, M.D.
Internal Medicine and Pulmonary Diseases
Veterans Home of California (retired)
Yountville, CA

Abbe L. Sudvarg, M.D.
Associate Medical Director
Family Care Health Center
St. Louis, MO

Robert Sumner, L.V.N.
Student Health Services
University of California at Santa Barbara
Santa Barbara, CA

George Susens, M.D.
President-Elect
San Francisco Medical Society
San Francisco, CA

Robert Suskind, M.D.
Dean, School of Medicine
Finch University of Health
Sciences/Chicago Medical School
North Chicago, IL

James H. Swan, Ph.D.
Associate Professor
Department of Public Health Sciences
Wichita State University
Wichita, KS

Sharon Swift, B.S.N., R.N.
Seattle, WA

Victoria L. Szatalowicz, M.D.
Locum tenens and Staff Physician
Centinela Hospital
Los Angeles, CA

Alison Tetler, M.P.H.
New Orleans, LA

Melvyn C. Thorne, M.D., M.P.H.
Adjunct Associate Professor
Johns Hopkins University School of
Hygiene and Public Health
Baltimore, MD

Donald J. Tipper, Ph.D.
Professor of Molecular Genetics and
Microbiology
University of Massachusetts Medical School
Worcester, MA

Danny Toub, M.D.
HIV Key Physician
Sonoma County Center for HIV Prevention
and Care
Santa Rosa, CA

Hans U. Tschersich, M.D.
Providence Kodiak Island Medical Center
Kodiak, AK

Marcelo Vorelas-Pizarro, M.D.
Internal Medicine
Montefiore Hospital
Bronx, NY

Lana K. Wagner, M.D.
Family Practice Resident
University of New Mexico
Albuquerque, NM

Judith Watkins, M.D.
Resident Psychiatrist
Department of Psychiatry and Behavioral
Sciences
Oregon Health Sciences University
Portland, OR

Scott Weissman, M.D.
Fellow, Pediatric Infectious Disease
University of Washington School of
Medicine
Seattle, WA

Vic Wells, M.D.
Professor
University of Cincinnati School of Medicine
Cincinnati, OH

Suzanne Westbrook, M.D.
Adult Primary Care Clinician
Harvard University Health Services
Cambridge, MA

Stacy D. Wiles, M.P.H.
Lansing, MI

Donald H. Williams, R.Ph.
Executive Director
Washington State Board of Pharmacy
Olympia, WA

Betty Wolder Levin, Ph.D.
Professor
Department of Health and Nutrition
Sciences
Brooklyn College
Brooklyn, NY

Donald A. Wolochow, M.D.
Gastroenterology Staff Physician (retired)
Kaiser Permanente Medical Center
San Diego, CA

Judith Worrell, R.N., M.S.N., C.N.S.
Director
Montgomery County-Mercy Nursing and
Community Partnership
Philadelphia, PA

Seiji Yamada, M.D., M.P.H.
Associate Professor of Family Practice and
Community Health
University of Hawaii
Mililani, HI

Daniel T. Young, M.D.
Professor Emeritus of Medicine
University of North Carolina School of
Medicine
Chapel Hill, NC

Bonnie Zimmerman, M.D.
Clinical Faculty
Stanford University School of Medicine
Menlo Park, CA

* Individuals' institutional affiliations are listed for identification purposes only.

cc: Manfred Schneider, Ph.D., Chairman of the Board of Management, Bayer AG
Dr. Friedrich Berschauer, Director, Bayer Animal Health
John B. Payne, Senior Vice President and Head of Animal Health, Bayer Corporation

[Please reply through Tamar Barlam, M.D., Director, Antibiotic-Resistance Project, Center for Science in the Public Interest, 1875 Connecticut Ave NW, Suite 300, Washington, DC 20009-5728. Dr. Barlam will forward your response to all co-signers]

Other Concerned Individuals

Darryl Alexander
Director
American Federation of Teachers
Environmental Health & Safety Program
Washington, DC

Michael A. Barry
Associate Executive Director, Program
Development
American College of Preventive Medicine
Washington, DC

Kathryn Choninard
Project Coordinator
Northeast Health Care Quality Foundation
Dover, NH

J. Bradley Ferguson, R.M.
Safety Manager
St. Mary's Hospital
Grand Junction, CO

Ellie Goldberg
Educational Management Specialist
Healthy Kids
Newton, MA

Elysa Gordon, M.S.W., J.D.
Senior Policy Analyst
PCRM Judicial Commission
New York, NY

Suzanne Keller
Program Manager
Virginia Department of Health
Richmond, VA

Karen Krause
Public Health Consultant
Community Health Consulting
Toledo, OH

Fred Lavy, M.T.
LabCorp
Harrisonburg, VA

Judge Joseph Lim
Office of Employee Appeals
Washington, DC

Christine Lyman, M.S.W., C.H.E.S.
Public Health Educator
Maine Bureau of Health
Portland, ME

Adele Pineda, M.S.W., L.C.S.W.
Team Leader, Social Services Department
Mercy Medical Center
Redding, CA

Helen Real, Ph.D.
Retired
Dolores, CO

Elise Rockwell, M.S.W., C.S.W.
St. Luke's Roosevelt Hospital
New York, NY

Reverend Frank Rogers-Groggett, M.Div.
West Palm Beach, FL

Michael Sprinker, B.A., C.I.H.
Director, Health and Safety
ICWVC
Akron, OH

Fran Tepper
Research Associate
American Public Health Association
Burtonsville, MD

Mariamne Whatley, Ph.D.
Professor of Women's Studies
Associate Dean, School of Education
University of Wisconsin at Madison
Madison, WI

Nancy Worcester, Ph.D.
Associate Professor of Women's and
Continuing Studies
University of Wisconsin
Madison, WI

Students

Donna Barry, R.N., M.P.H.
Student, MGH-IHP
Cambridge, MA

Michael Broyles, M.S.
Epidemiology Student
University of Arizona
Tucson, AZ

Patrick Cahill
M.D. candidate
University of Illinois at Chicago
Chicago, IL

Karen Cairns, M.P.H., R.N.-C
Ph.D. candidate
University of Louisville
Clarksville, IN

Carey Cuprisin
M.D. candidate
University of Colorado
Denver, CO

Barbara Davidson
Ph.D. candidate
University of Iowa College of Public Health
Iowa City, IA

Sascha Dublin, Ph.D.
M.D. candidate
University of Washington
Seattle, WA

Cassie Frank
M.P.H. candidate
Rollins School of Public Health
Emory University
Atlanta, GA

Constance Gasda
D.O. candidate
Philadelphia College of Osteopathic
Medicine
Philadelphia, PA

Jane Greenawalt
D.V.M. candidate
Washington State University
Pullman, WA

Brent Hendel-Paterson
M.D. candidate
University of Minnesota
Minneapolis, MN

David Kim
M.D. candidate
University of Illinois at Chicago
Chicago, IL

Janet Lai
M.D. candidate
Medical College of Virginia
Richmond, VA

Tara Mardigan
M.D. candidate
Tufts University
Boston, MA

Michael Mendoza
M.D. candidate
University of Chicago
Chicago, IL

Shadi Nahvi
M.D. candidate
Brown University
Providence, RI

Kathleen D. Ryan
M.D. candidate
University of Illinois at Chicago
Chicago, IL

V. Singh
M.D. candidate
Northwestern University
Chicago, IL

Jessica Stanton
M.D. candidate
University of Washington
Seattle, WA

Bernadette Vitola
M.D. candidate
University of Illinois at Rockford
Rockford, IL

Michael J. Vlases
M.D. candidate
University of Washington
Spokane, WA

Chezna Welsko
P.A. candidate
Duke University
Durham, NC

William G. Weppner
M.D. candidate
University of Washington
Seattle, WA

Roy K. Werner, M.S.
M.D. candidate
University of Illinois at Chicago
Chicago, IL

Kerri Zimmerman
M.D. candidate
University of Illinois at Chicago
Chicago, IL

REFERENCES

- ¹ Endtz, H.P., et al. Quinolone resistance in campylobacter isolated from man and poultry following the introduction of fluoroquinolones in veterinary medicine. *Journal of Antimicrobial Chemotherapy* 1991; 27:199-208.
- ² Herikstad, H., et al. Emerging quinolone-resistant *Salmonella* in the United States. *Emerging Infectious Diseases* 1997; 3:371-2.
- ³ Smith, K.E., et al. Quinolone-resistant *Campylobacter jejuni* infections in Minnesota, 1992-1998. *New England Journal of Medicine* 1999; 340:1525-32.
- ⁴ Centers for Disease Control and Prevention, 1999 Annual Report NARMS National Antimicrobial Resistance Monitoring System: Enteric Bacteria, Figure 18c.
- ⁵ Centers for Disease Control and Prevention, 1997 Annual Report NARMS National Antimicrobial Resistance Monitoring System: Enteric Bacteria, Figure 6.
- ⁶ Food and Drug Administration Notice of Opportunity for Hearing, Docket No. 00N-1571, *Federal Register*, October 31, 2000, pp. 64954-64965.