
Infection Management

Infection Prevention - Antimicrobial Stewardship

Jim Hutchinson

Vancouver Island Health Authority



Potential Conflict

- 1995 – 2001
 - Unrestricted Grants from Rx & D (Canadian Big Pharma) with contributions from many members
 - Unrestricted Research Grants from Bayer, Abbott, Aventis
 - Advisory Panel compensation from Janssen-Ortho, Aventis, Bayer, Pfizer, Abbott
 - Speaker's Honoraria from Abbott, Bayer, Pfizer, Aventis

Potential Conflict

- Since September 2001
 - No contact with any pharmaceutical company representative
 - Have not accepted ANYTHING directly from any pharmaceutical company

A favorite quote

“Never doubt that a small group of thoughtful, committed citizens can change the world. Indeed, it is the only thing that ever has.”

Margaret Mead

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“We act as though comfort and luxury were the chief requirements of life, when all we really need to make us happy is something to be enthusiastic about.”

Charles Kingsley

Another

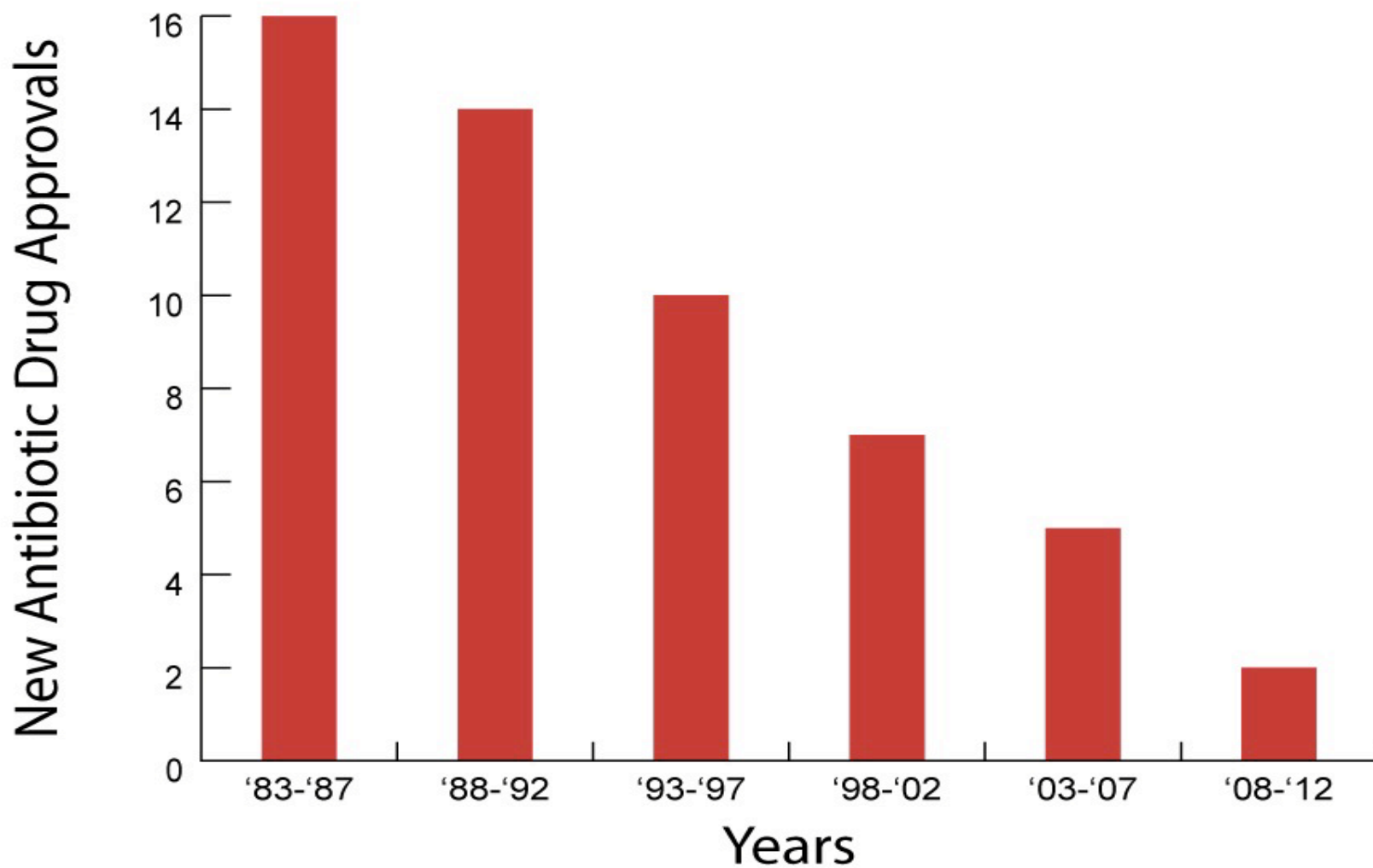
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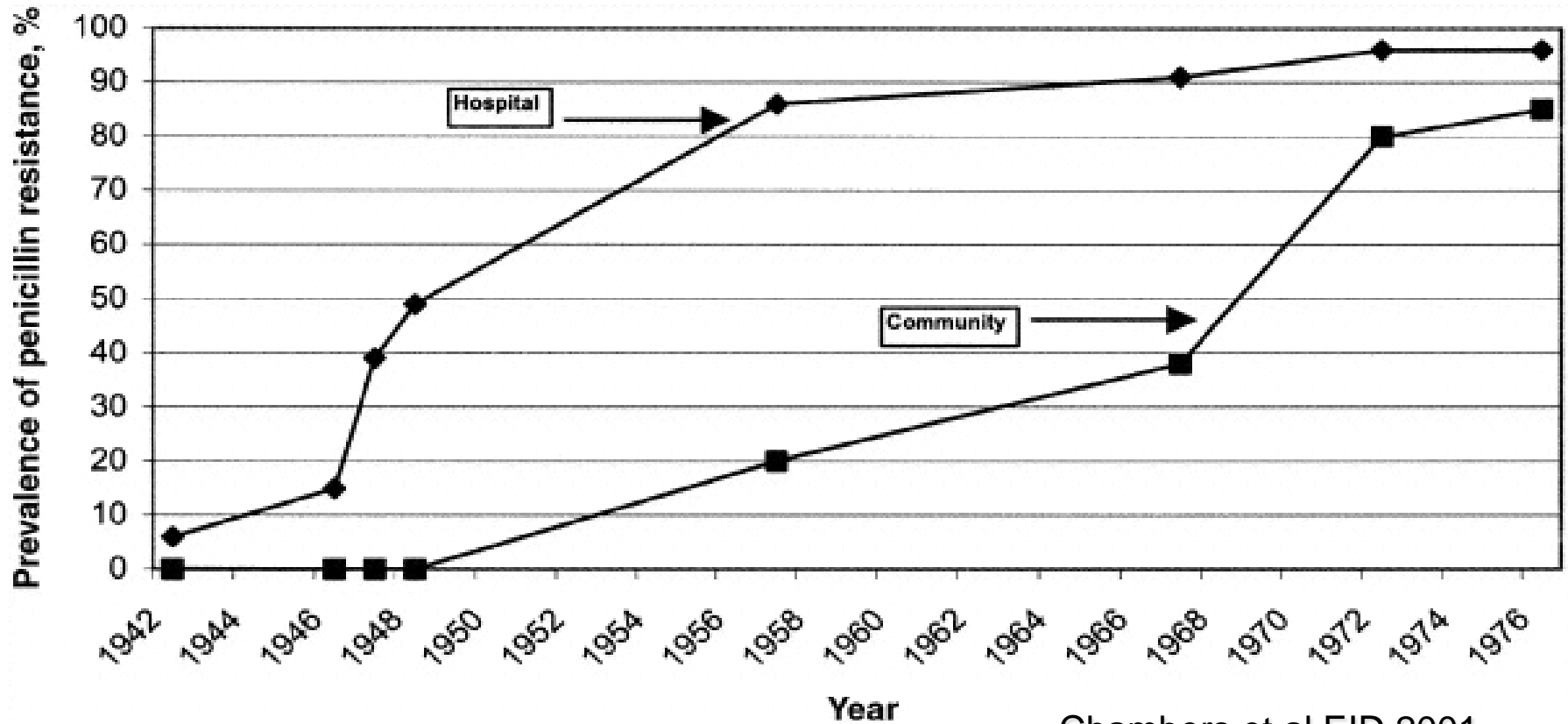


Dramatic Decrease in Antibiotic Drug Approvals

Source: Spellberg, *CID* 2004, Modified

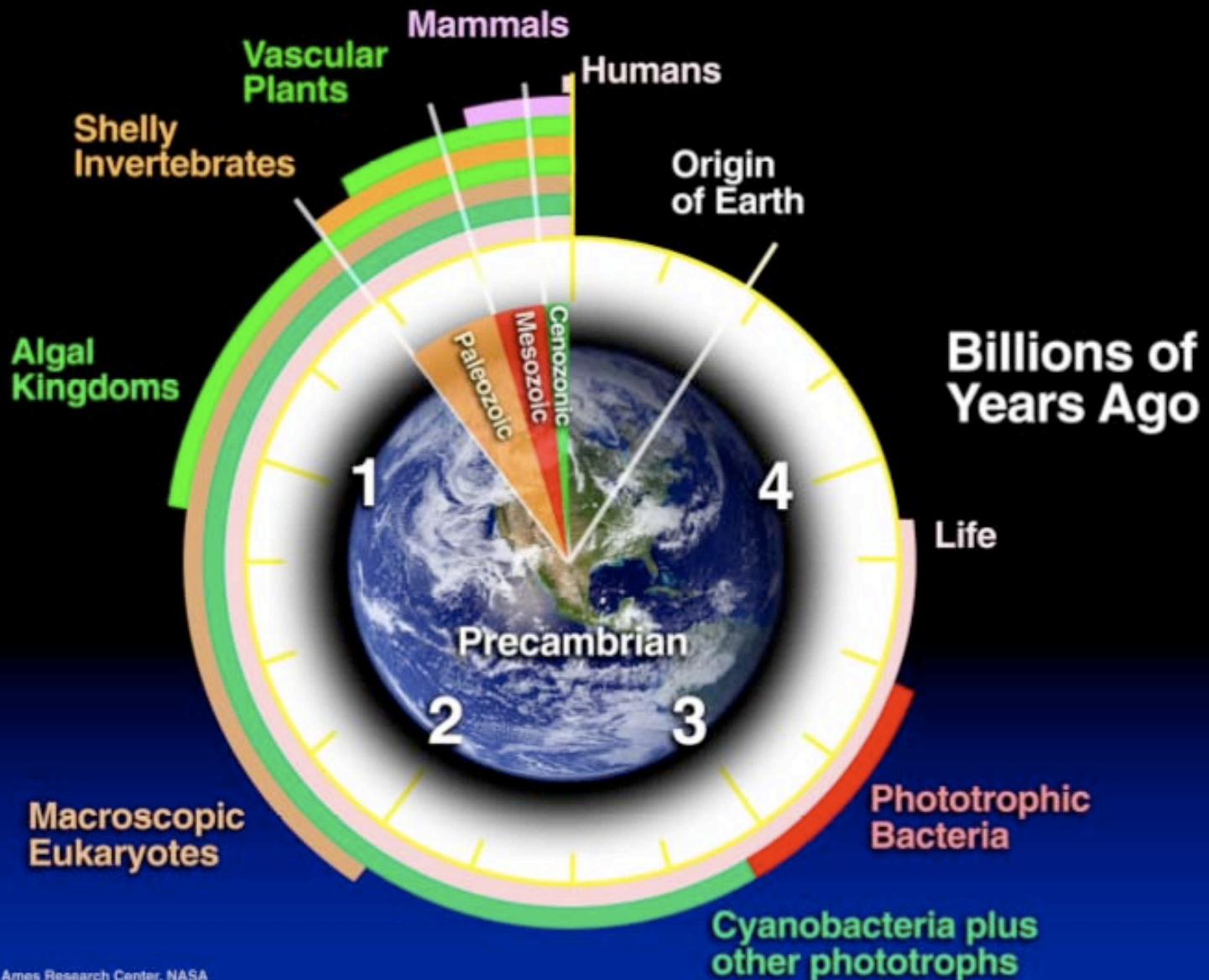


Penicillin Resistant *S. aureus*



Chambers et al EID 2001

Earth's Biogeologic Clock





Times they are a changin'

Safety and Quality

- 2004 Baker and Norton report
- Infections are a huge part of “adverse events”
- Medication safety includes antibiotics
- Good management of infections has enormous benefit for the present and the future

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Qmentum Program

STANDARDS

Managing Medications

For Surveys Starting After: January 01, 2012



INFECTIONNET

Required Organizational Practice:

The organization has a program for antimicrobial stewardship to optimize antimicrobial use.

Tests for compliance

- The program includes lines of accountability for implementation.

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BC Ministry of Health

- AS identified as a “Key Result Area”
- Regional Health Authorities obliged to report on programs and results

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BC Initiatives

- BC Patient Safety and Quality Council
 - Clinical Care Management
 - Establishing an “Anti-microbial Clinical Expert Group”
- Provincial formulary
- Do Bug Need Drugs



DO BUGS NEED DRUGS?

A Community Program for Wise Use of Antibiotics

Educational Resources

Healthcare Professionals

Other Internet Resources

KIDS

3 Key Messages

1. Handwashing is the best way to stop the spread of infections.
2. Not all bugs are created equal. Both bacteria and viruses cause infections but antibiotics only work against bacteria.
3. Use antibiotics wisely to stop bacteria from becoming resistant to antibiotics.

Guide to Wise Use of Antibiotics

Prevention and Treatment of Respiratory Tract Infections

Handwashing	Bacteria and Viruses	Antibiotic Resistance
Fever	Fever Medication Charts	Colds
Influenza	Sore Throat	Ear Ache
Cough	Sinus Infection	Guide in Other Languages

What is antibiotic resistance?



Dr. Edith Blondel-Hill, MD FRCP (C)
Medical Director Do Bugs Need Drugs?
Medical Microbiologist / Infectious Diseases Specialist
Interior Health, British Columbia, Canada

What's New

Welcome! Our website has been updated.



Please take a few moments to navigate through our updated website. Have a look at the video in the box above. All previous resources are still available and can be accessed from the buttons on this page.

[Continue Reading...](#)

Photo Gallery



2009

Antimicrobial Resistance Trends in the Province of British Columbia

Epidemiology Services

British Columbia Centre for Disease Control



Daily Consumption Rate for Overall Antibiotics (J01), 1996-2008

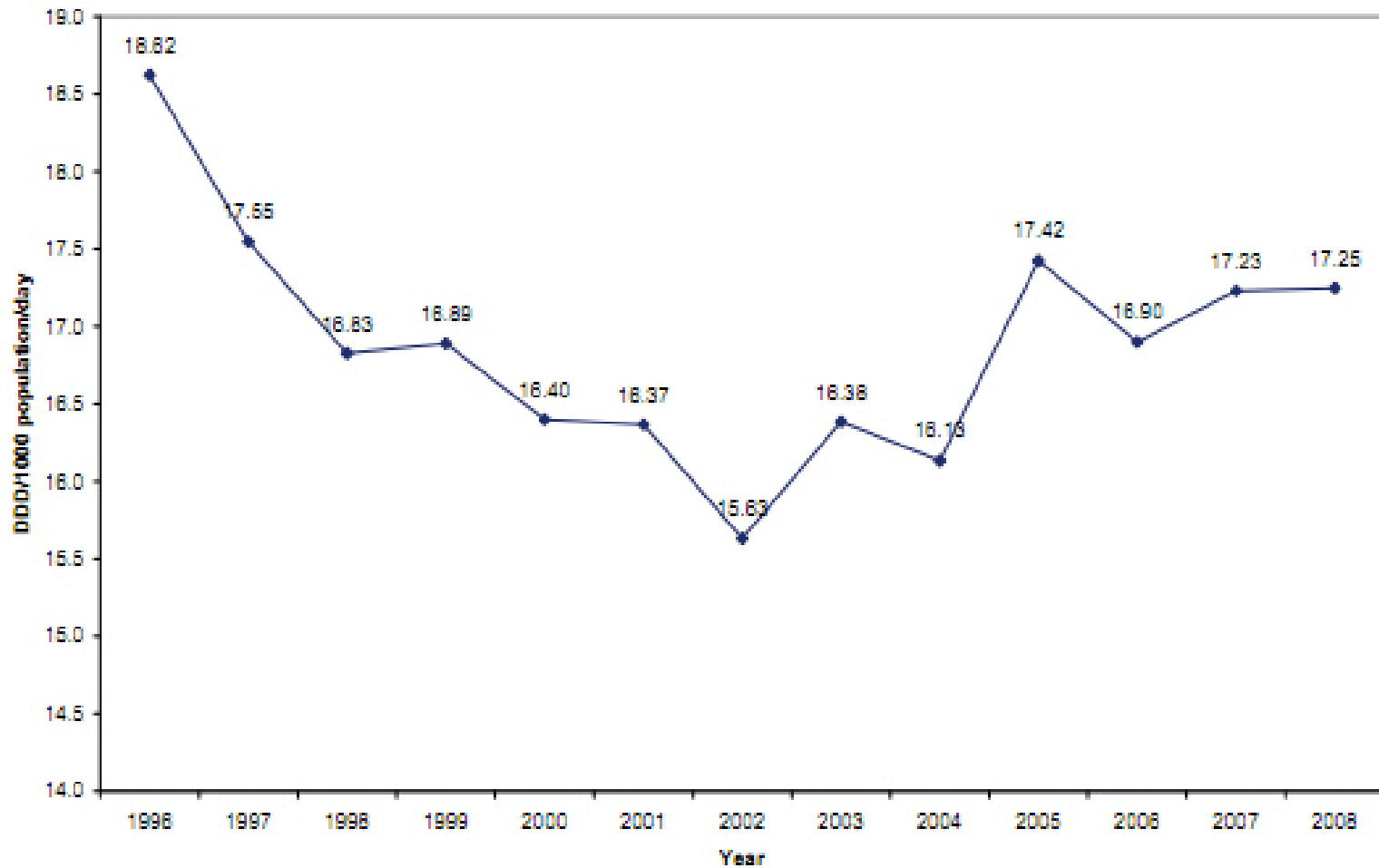


Figure 1: Overall antibiotic daily consumption rates between years 1996 to 2008



Overall Antibiotics (J01) Daily Prescription Rate for Children, 1996-2008

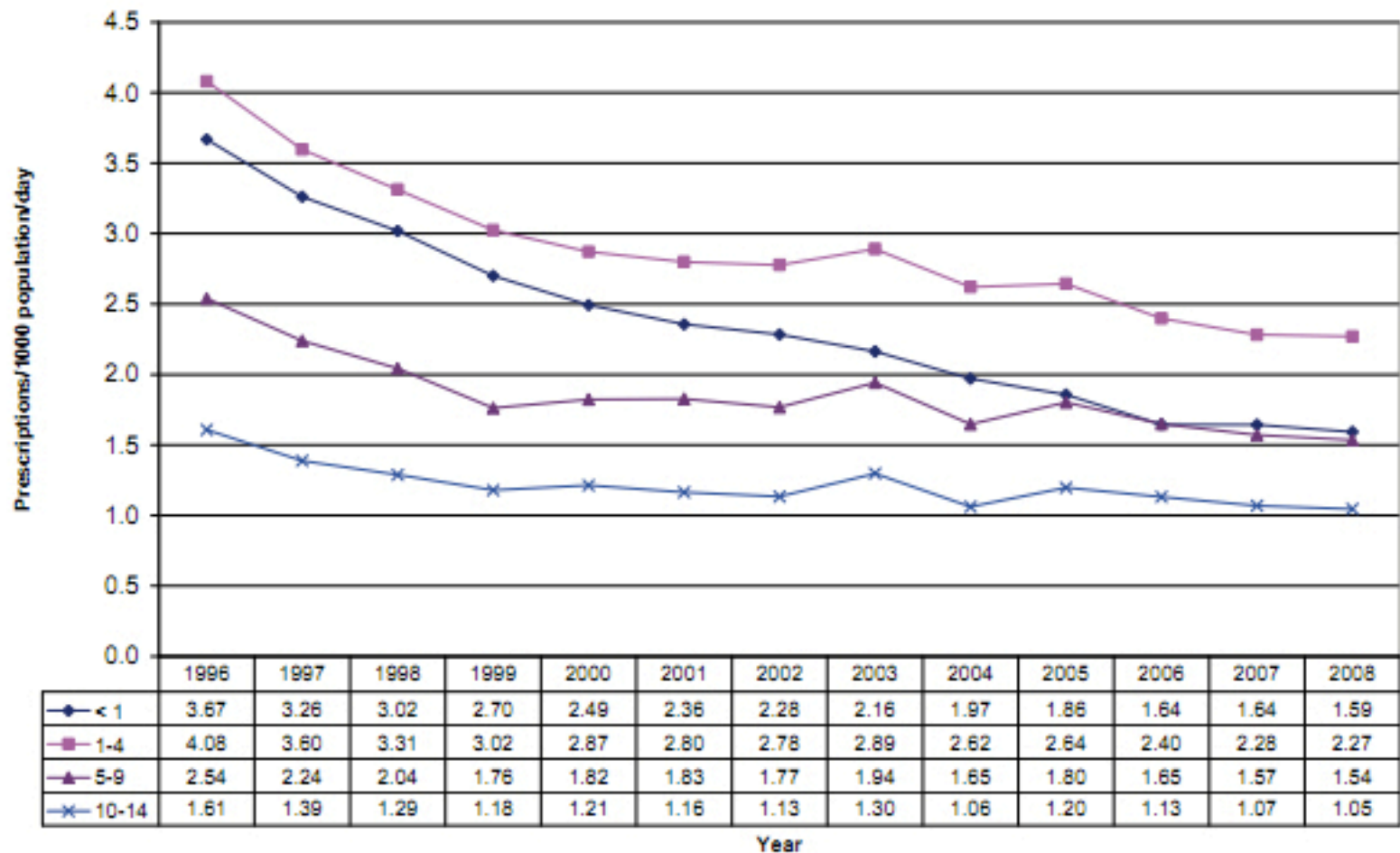


Figure 2: Overall antibiotic daily consumption rates in children between years 1996 to 2008

Overall (J01) Daily Consumption Rate by Health Authority, 1996-2008

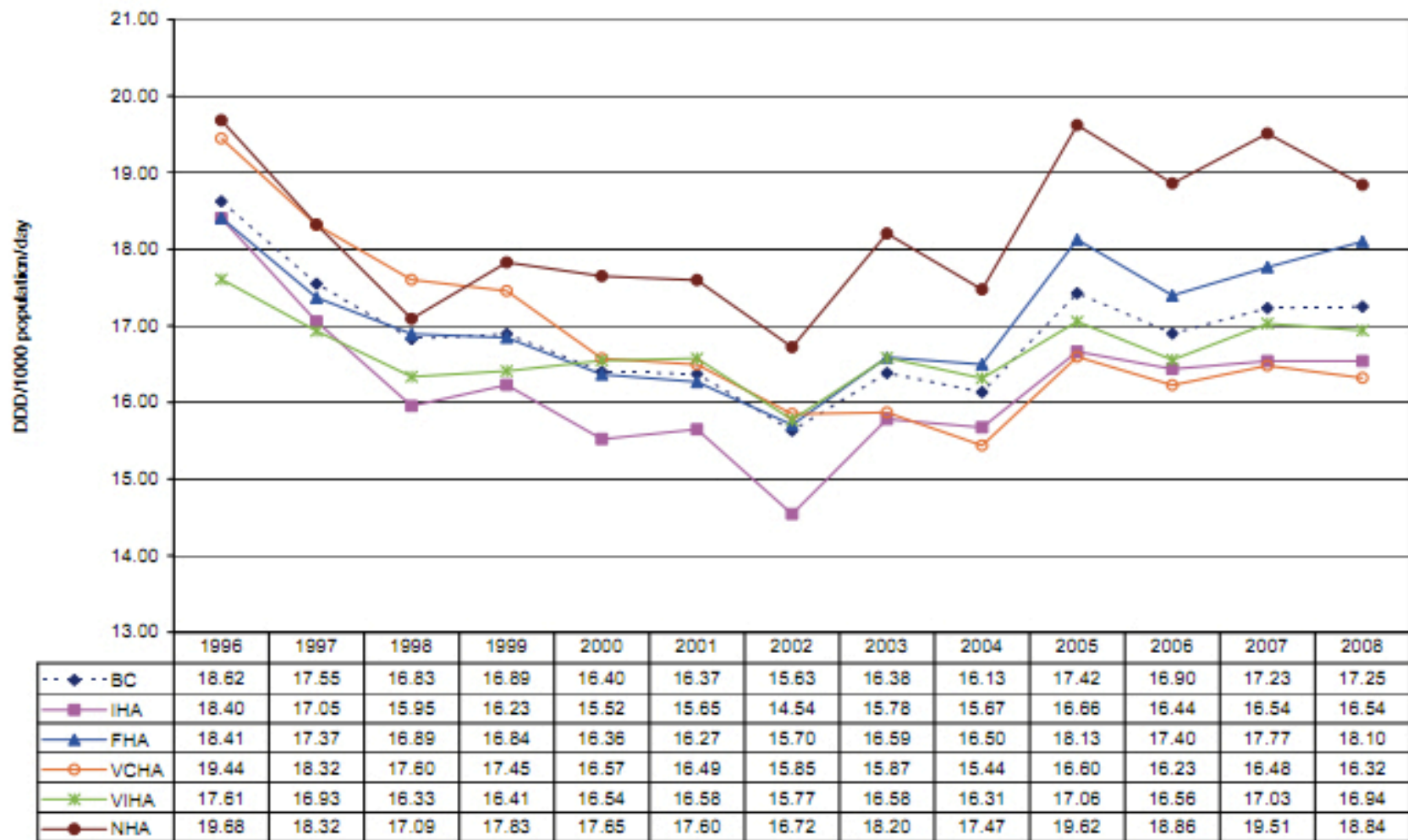


Figure 5: Overall antibiotic daily consumption rates by health authority between years 1996 to 2008



Overall (J01) Daily Consumption Rate for Selected Indications in BC

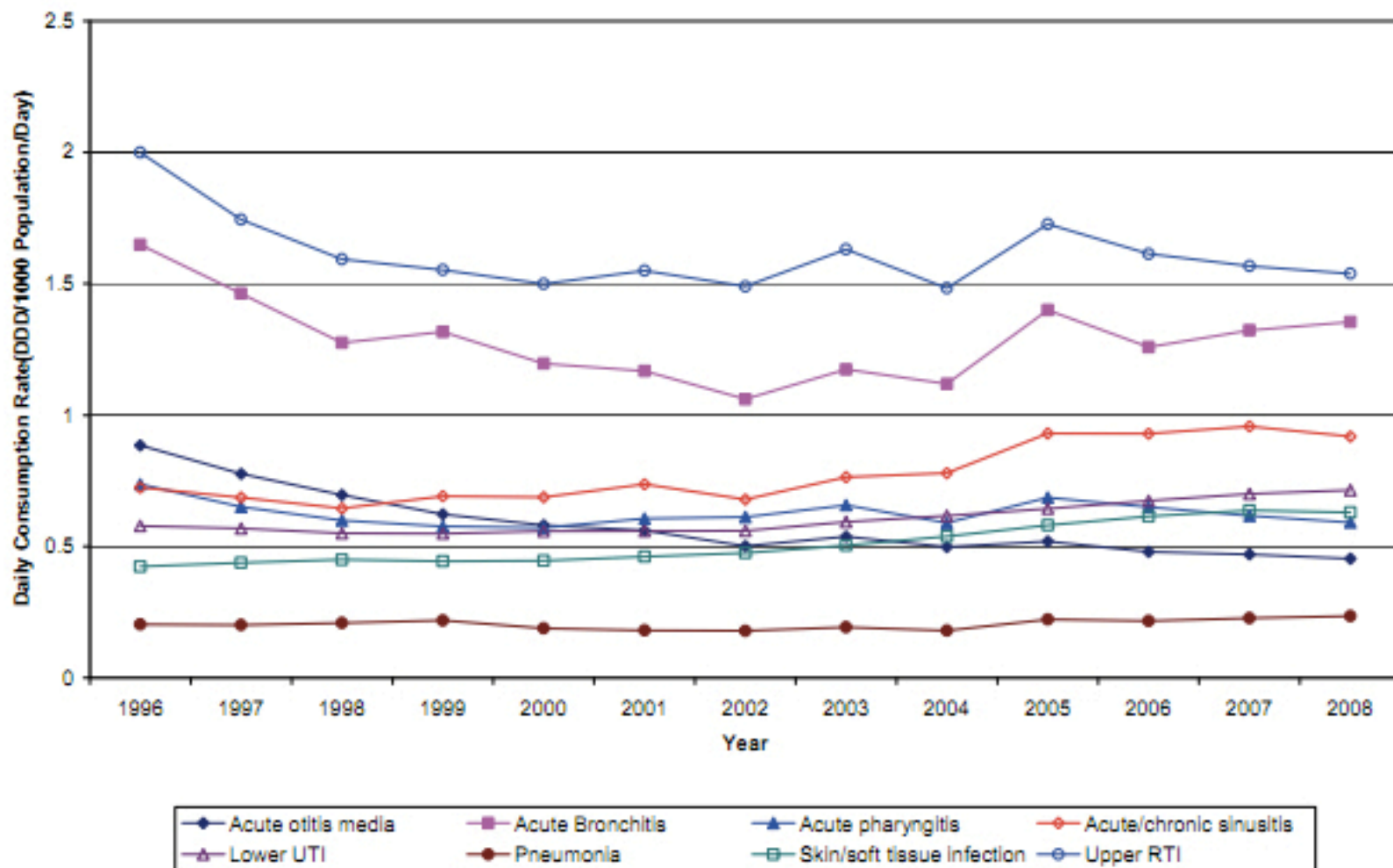


Figure 7: Overall antibiotic utilization rates in BC by selected indications, 1996-2008

Flashback

CHICA 2003

Infection Control vs Infection “Management”

- Infections are your game (not just hospital infections)
- Physicians (and patients) need help!
- You are viewed with higher regard if your are a general resource

Infection Management

- Not infection emergencies
 - ID docs aren't even involved
- Placement of patient
- Microbiologic investigation
 - knowledge of prior results
 - liaison with lab

Infection Management

- Therapy
 - knowledge of guidelines
 - Philosophy and principles
 - Connections with other “experts”
- Discharge planning
 - home IV
 - liaison with homecare

Reception?

- I was “hammered”
- Are you crazy?
- We are run off of our feet with MRSA, outbreaks etc. etc.!!

2012

Vancouver Island Health Authority

- 750,000 people
- Island-wide organization
- 4 Medical Microbiologists
 - Clinical Laboratory
 - Infection Control
 - Antibiotic Stewardship
 - Work as a consortium



Quality, Research and Safety

- Antimicrobial Stewardship
- Infection Prevention & Control
- Medication Safety
- System Quality & Patient Safety
- Ethics, Research & Academic Development
- Patient Care Quality Office
- Information & Privacy
- Accreditation

QRS

- Antimicrobial Stewardship
- Infection Prevention & Control
- Medication Safety
- System Quality & Patient Safety
- Ethics, Research & Academic Development
- Patient Care Quality Office
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- Accreditation

Infection Management

- Natural fit
- Prevention
- Diagnostics
- Therapeutics
- Stewardship

How does it work?

- Information sharing essential
 - Everyone needs access to everyone's policies, procedures, contact info etc.
- Group ownership ensues
- Local circumstances determine structure

Infection Prevention
+
Antibiotic Stewardship

Infection Management

Infection Management

Structure is essential

- Manpower
- Information
- Policies (including laws)
- Procedures
- Education



Stewardship is Structure

June 22, 2011 by JimHutchinson

Certainly in the Canadian context, Antimicrobial Stewardship is a **public service**.

public service *noun*

1. : the business of supplying a commodity (as electricity or gas) or service (as transportation) to any or all members of a community
2. : a service rendered in the public interest

It fulfills both of these dictionary definitions perfectly. Stewardship programs provide a service to members of communities — The community of healthcare providers to aid in their provision of care and to the community at large to provide the ongoing benefits of the availability of effective antimicrobials. This is very much in the public interest.

More established public services include the police, fire fighting, waste removal are easy to conceptualize and understand. Others such as fisheries and forest management are more difficult. Few would dispute that the management of common resources is important, however. Common to all are several elements.

Information



HOME



ARTICLES



NOTES



LAB



CASES



THERAPY GUIDELINES



DISCUSSIONS



CONTACT

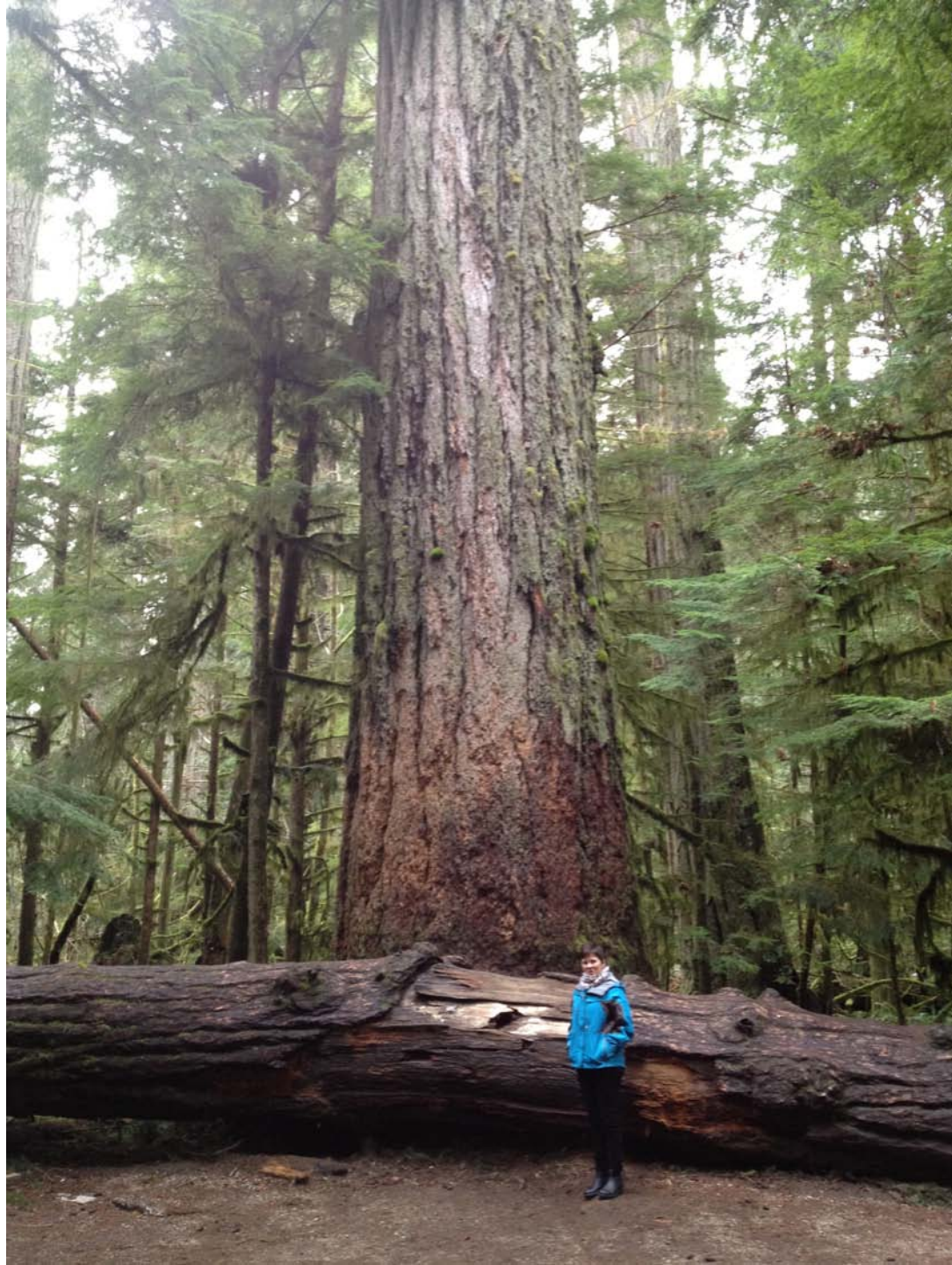


Search

SIGNUP!

We send out periodic emails about infection-related topics.







MILKY WAY →
RETIREMENT →
COASTER →

