

## Antimicrobial Resistant Organism Surveillance in BC

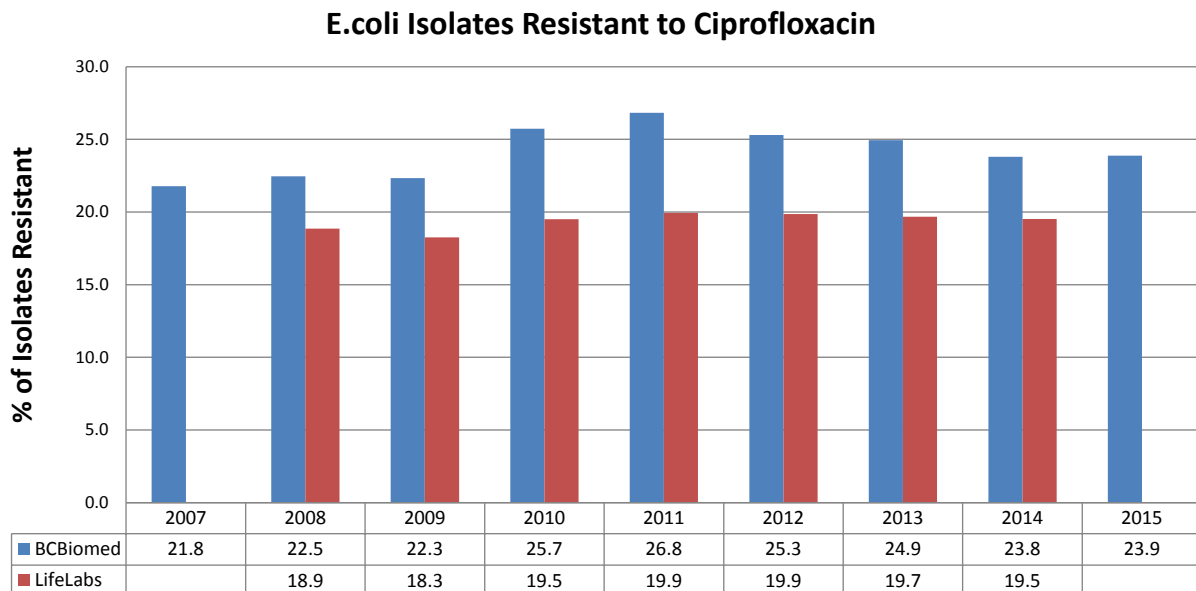
As a component of the Do Bugs Need Drugs? program evaluation, trends in resistance are analyzed and compiled using anonymized, isolate-level antimicrobial susceptibility testing data from 90% of community laboratories in British Columbia (BC). The latest static report, entitled "Antimicrobial Resistance Trends in the Province of British Columbia", is available online at <http://www.bccdc.ca/health-professionals/data-reports/do-bugs-need-drugs-evaluation-reports>.

In summary, while antibiotic resistance remains a growing problem, patterns of resistance in gram positive organisms are largely stable and the previously observed steep increases in fluoroquinolone resistance among E. coli isolates are no longer being

seen. In addition, declining rates of utilization of antibiotics, particularly for Do Bugs Need Drugs target indications such as upper respiratory infection and otitis media, suggest a shift in prescribing practices that may reduce the selective pressure on organisms causing infection.

For healthcare-associated infections (e.g. MRSA, CPO, and C. difficile), please visit the Provincial Infection Control Network of British Columbia (PICNet) at: <https://www.picnet.ca/surveillance/latest-surveillance-reports/>

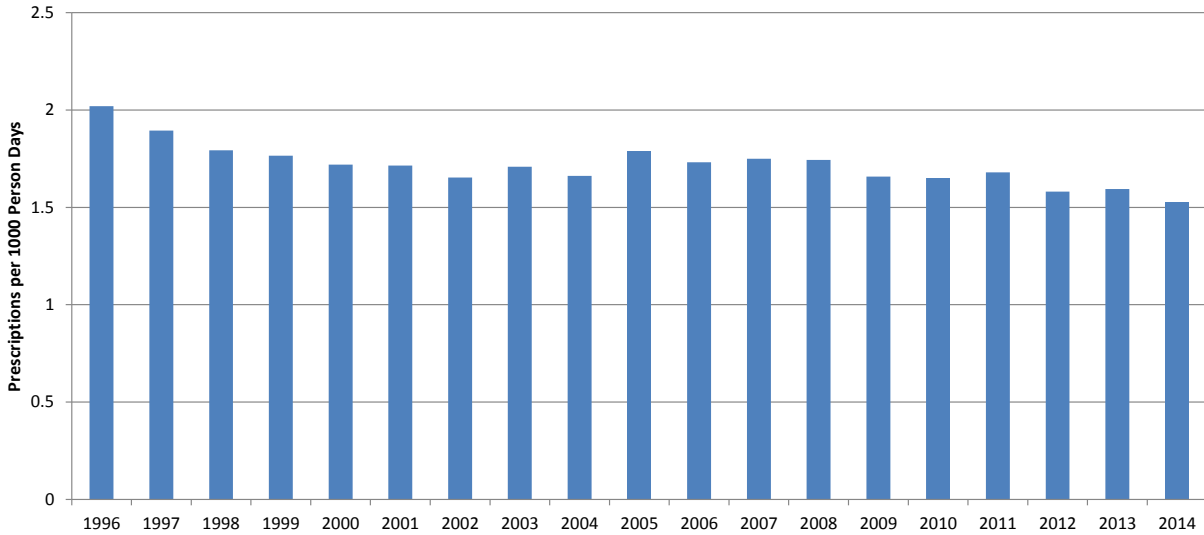
### 4.1 E. coli Isolates Resistant to Ciprofloxacin (2007-2015)



Source: LifeLabs Laboratories

4.2 Antimicrobial Prescriptions per 1000 Person-Days (1996-2014)

**Antimicrobial Prescriptions (1996-2014)**

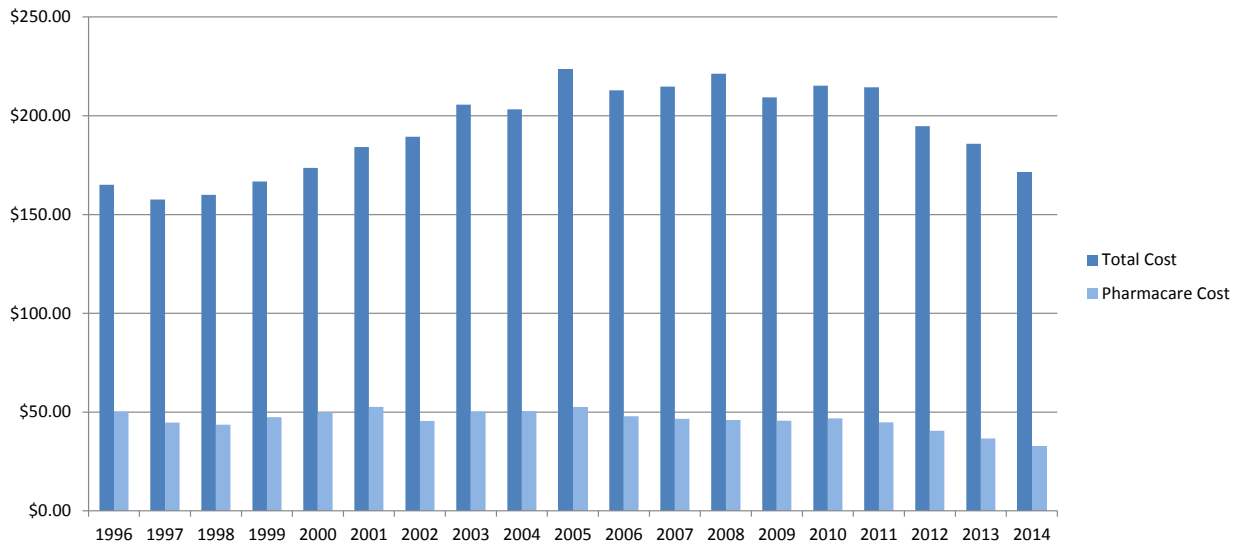


\*The Do Bugs Need Drugs program in BC was implemented in 2005

Source: BC Ministry of Health[creator] (2014): PharmaNet. BC Ministry of Health [publisher]. Data Extract. PharmaNet Committee (2009).

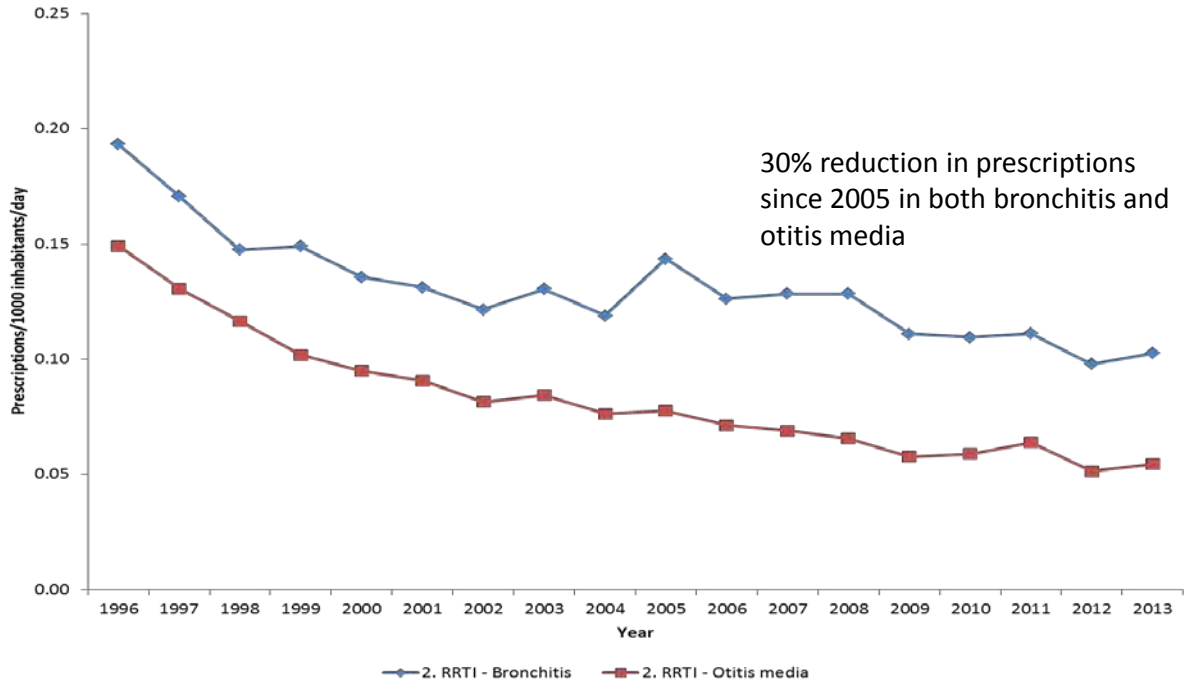
4.3 Costs per 1000 Person Days (1996-2014)

**Costs per 1000 Person Days (1996-2014)**



Source: BC Ministry of Health[creator] (2014): PharmaNet. BC Ministry of Health [publisher]. Data Extract. PharmaNet Committee (2009).

#### 4.4 Antibiotic Prescribing for Target Indication (1996-2013)



Source: BC Ministry of Health[creator] (2014): PharmaNet. BC Ministry of Health [publisher]. Data Extract. PharmaNet Committee (2009).