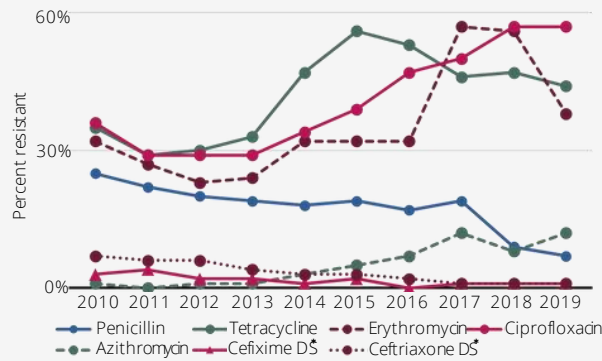


Enhanced surveillance of antimicrobial-resistant gonorrhoea in Canada

ANTIMICROBIAL-RESISTANT GONORRHEA (AMR-GC) IS A **THREAT** TO PUBLIC HEALTH

Neisseria gonorrhoeae has acquired resistance or displayed decreased susceptibility to many antibiotics, leading to the possible emergence of untreatable gonorrhoea in Canada¹

Figure 1. Trends of AMR-GC in Canada, 2010 to 2019¹



2nd Gonorrhoea is the **second** most commonly reported sexually transmitted infection in Canada²

Reported gonorrhoea rates almost **tripled** in Canada from 2010 to 2019²

>35,000 gonorrhoea cases reported in 2019²

WHAT IS THE PUBLIC HEALTH AGENCY OF CANADA DOING TO ADDRESS AMR-GC?

- The **National Microbiology Laboratory** supports provincial and territorial (PT) laboratories by providing AMR testing and analysis of gonorrhoea isolates¹
- PHAC established the **Enhanced Surveillance of Antimicrobial-Resistant Gonorrhoea (ESAG)** system, which uses linked PT-reported epidemiologic, gonorrhoea treatment and gonorrhoea culture data to improve the understanding of emerging AMR-GC trends in Canada³



- **Alberta, Manitoba, Nova Scotia and the Northwest Territories** participate in ESAG; recruitment of additional jurisdictions is ongoing

- **Monitoring trends in AMR-GC helps inform targeted public health interventions for prevention, testing and treatment**



AMR-GC SURVEILLANCE KNOWLEDGE GAPS

- **Cultures** allow for the detection and monitoring of **AMR-GC** trends
- In 2019, >80% of gonorrhoea cases were diagnosed by nucleic acid amplification tests (NAATs), for which there is no antimicrobial susceptibility data¹



YOU CAN MAKE A DIFFERENCE!

- Detection**
 - Collect specimens, including cultures, as per national and local screening and treatment guidelines⁴
- Surveillance**
 - Collect enhanced data such as risk factors and infection site
 - Report AMR-GC to public health authorities, where appropriate
- Treatment**
 - Treat according to national and local guidelines⁴

* DS - Decreased susceptibility

1. Public Health Agency of Canada (PHAC), National surveillance of antimicrobial susceptibilities of *Neisseria gonorrhoeae* annual summary, 2019. 2. PHAC, Report on sexually transmitted infection surveillance in Canada, 2019.

3. PHAC, Report on the enhanced surveillance of antimicrobial-resistant gonorrhoea - results from the 2014 pilot. 4. PHAC, Gonorrhoea guide: treatment and follow-up, 2021.

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