## The Reality of Antimicrobial Resistance

If antimicrobial resistance continues to be unaddressed, then the number of deaths globally related to drug-resistant infections is estimated to increase from 700,000 to 10 million deaths per year in 2050.1



# The Significance of Antimicrobial Stewardship Interventions<sup>2</sup>

Improve patient health outcomes Minimize adverse events associated with antibiotic use Lower
healthcare
costs without
lowering the
quality of care

## Become a Champion of Antimicrobial Stewardship

### Improve Your Knowledge

Keep up your knowledge of appropriate antimicrobial agent selection by taking continuing education courses on various infectious diseases

### **Utilize Your Full Scope**

Review all antibiotic prescriptions for appropriateness and consider adapting, or make recommendations where necessary. Patients can also benefit from receiving vaccines for preventable diseases that you may administer. Thus, review immunization histories and recommend appropriate vaccines.

#### **Be Innovative in Your Practice**

Expand on pharmacy professional services, such as providing basic wound care or point-of-care tests $^{2.3.4}$ , and collaborate with other healthcare providers to review culture results $^{4.6}$  or antibiotic prescriptions. $^2$ 

# OPA has resources to help you get started!

- Pharmacist Worksheet for AMS Recommendation
- Prescriber Notification of AMS
  Recommendation
- Visit <u>opatoday.com/antimicrobial-</u> <u>resistance</u> for more information

#### References

- O'Neill J. Review on antimicrobial resistance: tackling drugresistant infections globally. [cited 2018 April 9]. Available from: https://amr-review.org/sites/default/files/160525\_Final%20 paper\_with%20cover.pdf
- Barlam TF, Cosgrove SE, Abbo LM, et al. Implementing an antibiotic stewardship program: guidelines by the infectious diseases society of America and the society for healthcare epidemiology of America. Clin Infect Dis. 2016 May 15,62(10):e51-77. doi: 10.1093/cid/ciw118. PMID: 27080992
- Papastergiou J, Folkins C, Li W, et al. Community pharmacy rapid influenza A and B screening: A novel approach to expedite patient access to care and improve clinical outcomes. Can Pharm J (Ott). 2016 Mar;149(2):83-9. doi: 10.1177/1715163516629157. Epub 2016 Mar 3. PMID: 27076819.
- Gugkaeva Z, Crago JS, Yasnogorodsky M. Next step in antibiotic stewardship: pharmacist-provided penicillin allergy testing. J Clin Pharm Ther. 2017 Aug;42(4):509-512. doi: 10.1111/jcpt.12530. Epub 2017 May 14. PMID: 28504314.
- Baker SN, Acquisto NM, Ashley ED, et al. Pharmacist-managed antimicrobial stewardship program for patients discharged from the emergency department. J Pharm Pract. 2012 April; 25(2): 190–194. doi:10.1177/0897190011420160. PMID: 22095578.
- Davis LC, Covey RB, Weston JS, et al. Pharmacist-driven antimicrobial optimization in the emergency department. Am J Health Syst Pharm. 2016 Mar 1;73(5 Suppl 1):S49-56. doi: 10.2146/ so150036. PMID: 26896526.

Disclaimer: The Ontario Pharmacists Association (OPA) provides this material to pharmacy professionals for informational purposes only. It is intended to provide pharmacy professionals with general guidance on antimicrobial resistance. The information provided may not be comprehensive and does not replace professional judgement and responsibilities. It is provided without warranty of any kind by OPA and OPA assumes no responsibility for any errors, omissions or inaccuracies therein. The decision for use and application of this document is the responsibility of the user. OPA assumes no liability for such use and application or any resulting outcomes. It is the responsibility of the pharmacy professional to use professional judgment in evaluating this material in light of any relevant situational data. It is intended to supplement materials provided by regulatory authorities, and should there be any discrepancies, municipal, provincial, and federal laws, policies and guidelines shall prevail. This information is up to date as at the date of publication. Pharmacy professionals are encouraged to use other resources that are appropriate and available to them.