## LETTERS

We hypothesize that pathogenic ST8 could spread to other countries in Europe in a few years and that persistence of ST8 isolates in the population might be related to increases in the number of invasive infections. The scale of the problem of nontoxigenic *C. diphtheriae* infections in Europe remains unknown because only toxigenic infections are registered. Lack of registration leads to lack of prevention and, thus, to outbreak development and spread.

### References

- Dangel A, Berger A, Konrad R, Bischoff H, Sing A. Geographically diverse clusters of nontoxigenic *Corynebacterium diphtheriae* infection, Germany, 2016–2017. Emerg Infect Dis. 2018;24:1239– 45. http://dx.doi.org/10.3201/eid2407.172026
- Zasada AA. Nontoxigenic highly pathogenic clone of *Corynebacterium diphtheriae*, Poland, 2004–2012. Emerg Infect Dis. 2013;19:1870–2. http://dx.doi.org/10.3201/eid1911.130297
- Czajka U, Wiatrzyk A, Mosiej E, Formińska K, Zasada AA. Changes in MLST profiles and biotypes of *Corynebacterium diphtheriae* isolates from the diphtheria outbreak period to the period of invasive infections caused by nontoxigenic strains in Poland (1950–2016). BMC Infect Dis. 2018;18:121. http://dx.doi.org/10.1186/s12879-018-3020-1

Address for correspondence: Aleksandra A. Zasada, National Institute of Public Health–National Institute of Hygiene, Department of Sera and Vaccines Evaluation, Chocimska 24, 00-791 Warsaw, Poland; email: azasada@pzh.gov.pl

# Racial/Ethnic Disparities in Antimicrobial Drug Use, United States, 2014–2015

## Mark Thomas, Naomi Whyler, Andrew Tomlin, Murray Tilyard

Author affiliations: University of Auckland, Auckland, New Zealand (M. Thomas); Auckland City Hospital, Auckland (M. Thomas, N. Whyler); Best Practice Advocacy Centre, Dunedin, New Zealand (A. Tomlin, M. Tilyard)

#### DOI: https://doi.org/10.3201/eid2507.181775

To the Editor: We read with interest the article by Olesen and Grad (1), which reported that, in the United States during 2014–2015, the rate of antimicrobial drug use by white persons was twice that of persons of other races.

The authors did not relate this finding to previous reports of  $\approx 2$  times lower incidence of sepsis (2) and  $\approx 1.5$  times lower incidence of death from infectious diseases (3) in white persons in the United States.

A national study of community antibacterial dispensing in relation to ethnicity in New Zealand (4) found that the dispensing rates were highest in Pacific people and Maori, consistent with their higher incidence of infectious diseases. However, the ethnic disparities in dispensing rates were substantially less than the ethnic disparities in the incidence of some infections. For example, even though the incidence of hospitalization for rheumatic fever was 63 times higher for Pacific people and 27 times higher for Maori than for persons of all other ethnicities combined, the annual dispensing rates of penicillins for Pacific people and Maori were <1.5 times higher than in other ethnicities.

Olesen and Grad suggest that ethnic disparities in antimicrobial drug use will lead to disparities in the prevalence of colonization (and disease) by antimicrobial-resistant bacteria. The New Zealand study found that dispensing rates of topical antimicrobial agents (predominantly fusidic acid) for Pacific and Maori children were approximately twice those for children of other ethnicities and suggested that these high dispensing rates might have contributed to the higher proportion of staphylococcal infections caused by methicillin-resistant (and fusidic acid–resistant) *Staphylococcus aureus* in Pacific people and Maori (5). We suggest that improved understanding of ethnic disparities in the incidence of infectious diseases and in the level of consumption of antimicrobial agents might usefully inform antimicrobial stewardship targets and strategies.

#### References

- Olesen SW, Grad YH. Racial/ethnic disparities in antimicrobial drug use, United States, 2014–2015. Emerg Infect Dis. 2018;24:2126–8. http://dx.doi.org/10.3201/eid2411.180762
- Martin GS, Mannino DM, Eaton S, Moss M. The epidemiology of sepsis in the United States from 1979 through 2000. N Engl J Med. 2003;348:1546–54. http://dx.doi.org/10.1056/NEJMoa022139
- Richardus JH, Kunst AE. Black-white differences in infectious disease mortality in the United States. Am J Public Health. 2001;91:1251–3. http://dx.doi.org/10.2105/AJPH.91.8.1251
- Whyler N, Tomlin A, Tilyard M, Thomas M. Ethnic disparities in community antibacterial dispensing in New Zealand, 2015. N Z Med J. 2018;131:50–60.
- Williamson DA, Monecke S, Heffernan H, Ritchie SR, Roberts SA, Upton A, et al. High usage of topical fusidic acid and rapid clonal expansion of fusidic acid-resistant *Staphylococcus aureus*: a cautionary tale. Clin Infect Dis. 2014;59:1451–4. http://dx.doi.org/ 10.1093/cid/ciu658

Address for correspondence: Mark Thomas, Department of Molecular Medicine and Pathology, Faculty of Medical and Health Sciences, University of Auckland, 85 Park Rd, Grafton, Auckland 1023, New Zealand; email: mg.thomas@auckland.ac.nz