Correspondence

Re: Trimethoprim-sulfamethoxazole or Clindamycin for Community-Associated MRSA (CA-MRSA) Skin Infections

To the Editor: I read the article by Frei et al¹ with great interest and would like to emphasize the important role of incision and drainage (I&D) for management of skin and soft tissue infection (SSTI) caused by community-associated methicillin-resistant *Staphylococcus aureus* (CA-MRSA). As a general rule in infectious diseases, any antibiotics, no matter how strong and broad-spectrum they are, will not work effectively unless the infected source is properly drained.

Since the emergence of CA-MRSA as the important cause of infections in both outpatient and inpatient settings, there is growing evidence that supports the use of non- β -lactam antibiotics, including trimethoprim-sulfamethoxazole, clindamycin, and tetracyclines for treatment of CA-MRSA SSTIs.²⁻⁵ Among patients with drainable abscesses caused by CA-MRSA, treatment options can be either I&D or a combination of I&D and antibiotics. However, there have been no clinical studies to compare the efficacy between these treatment options.²⁻⁵ The conclusion by Frei et al¹ that combination of I&D and antibiotics is more effective than I&D alone may not be totally accurate because of the following reasons. First, it is premature to draw this conclusion from this study given its limitations, including its retrospective nature, the small sample size, and that the subgroup analysis of patients undergoing I&D was not predefined. Secondly, characteristics between the groups receiving combination of I&D and antibiotics and I&D alone were not compared to prove similarities. Third, disease severity, which is one of the most important confounders, was not adjusted. Patients with mild infection could be treated with I&D alone without the need for antibiotics, whereas the role of antibiotics would be obvious in more severe cases. Unfortunately, there are no common criteria or scale of severity for SSTIs. Thus, it is difficult to compare results between studies based on patient severity. Some of the characteristics that can affect outcomes and should be included in the criteria or severity scale are the size of the lesion, the number of lesions, and presence of concurrent ulcer or abscess, fever, and sepsis.² Lastly, a study previously published by myself and my colleague demonstrated a high treatment success rate (85%) using cephalexin among patients with skin abscesses who were undergoing I&D despite that

70% of the cultures grew CA-MRSA, which were resistant to cephalexin.² This finding is consistent with the findings from the study by Rajendran et al,⁶ which with the authors contrasted their data.

Given the potential adverse reactions and resistance created by the overuse of antibiotics, I encourage proper selection of patient populations that would benefit from antibiotic treatment of CA-MRSA SSTIs. A standardized disease severity scale for SSTIs and prospective randomized studies are needed to assess and compare the efficacy between I&D alone and in combination with antibiotics for patients with CA-MRSA SSTIs.

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The above letter was referred to the author of the article in question, who offers the following reply.