Reviewer's report

**Title:** A presenting case of disseminated MRSA infection. Is Daptomycin effective in the Central Nervous System infections? A case report.

**Version:** 4  **Date:** 20 May 2012

**Reviewer:** MURAT AKOVA

**Which of the following following best describes what type of case report this is?:** Other

**If other, please specify:**

A new treatment modality for treating a relatively uncommon disease.

**Has the case been reported coherently?:** Yes

**Is the case report authentic?:** Yes

**Is the case report ethical?:** Yes

**Is there any missing information that you think must be added before publication?:** No

**Is this case worth reporting?:** Yes

**Is the case report persuasive?:** Yes

**Does the case report have explanatory value?:** Yes

**Does the case report have diagnostic value?:** No

**Will the case report make a difference to clinical practice?:** Yes

**Is the anonymity of the patient protected?:** Yes

**Comments to authors:**

This case presentation reports an unusual finding that only after adding daptomycin to linezolid and levofloxacin, a patient with multiple skin, muscle and soft tissue abscesses, pneumonia and brain abscesses will respond clinically.

Several comments should be addressed:

1) It should be mentioned this is a case of health-care associated S. aureus infection rather than a community-acquired one.

2) The authors should make it clear whether any cerebral abscesses were
drained or only treated by medical therapy.

3) Daptomycin does not cross blood-brain barrier, thus not recommended for central nervous system infections. Only anecdotal reports and usually with higher dosage regimens were reported in a few cases with successful outcome. Since this patient were on linezolid and levofloxacin while having daptomycin, the latter antibiotic can not be surely held responsible for the successful outcome. The same comment can be applicable for treating the patient’s pneumonia, because daptomycin is not effective for this disease, either. However, apparently daptomycin contributed to some extend to the successful outcome of this patient since she was failing to linezolid and levofloxacin at the time when daptomycin was added and she responded only after this addition. But, above mentioned concerns should be discussed in detail.

Quality of written English: Needs some language corrections before being published

Declaration of competing interests:

I declare that I have no competing interests.