



Corrigendum

Corrigendum to “Association between antimicrobial resistance among Enterobacteriaceae and burden of environmental bacteria in hospital acquired infections: analysis of clinical studies and national reports” [Heliyon 5 (7) (July 2019) e02054]



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In the original published version of this article, the reference numbers in column 1 of [Table 1](#) were incorrect by one number, due to the late addition of a reference to the main text of the article. The updated version of [Table 1](#) is shown below with all corrected reference numbers underlined. The authors apologize for this mistake. Additionally, two axes were

labelled incorrectly for [Fig. 2](#). The updated version of [Fig. 2](#) is shown below with the changes highlighted. This error was introduced during the typesetting of the article, the publisher apologises for this error. Both the HTML and PDF versions of the article have been updated to correct these errors.

DOI of original article: <https://doi.org/10.1016/j.heliyon.2019.e02054>.

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<https://doi.org/10.1016/j.heliyon.2019.e02383>

Received 23 August 2019; Accepted 23 August 2019

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Table 1
Crucial data and outcome of quality check.

| Ref | First Author | Country | Institution | Patients' cohorts | Sampling year | Pending issue, and outcome of quality check. | Methodology | GNB (no) | Enterobacteriaceae (no) | Resistance rate Enterobacteriaceae | Proportion of Acinetobacter (%) | Quality |
|-----------|--------------|--------------------|--|---|---------------|--|---------------|----------|-------------------------|------------------------------------|---------------------------------|---------|
| <u>3</u> | Maina | Kenya | Aga Khan Gen.Hospital Nairobi | NICU, Paediatric, Medical, Surgical | 2010-14 | Susceptibility test results given for HAI and CAI combined, 70% being CAI. Not included | CLSI | 189 | 152 | NG | 11 | - |
| <u>25</u> | Morkel | South Africa | Tygerberg Childrens Hospital Cape Town | Children including neonates | 2008 | 15% of specimen harvested < 48 h after admission or birth. Included | CLSI | 38 | 23 | 53 | 37 | + |
| <u>26</u> | Dramowski | South Africa | Tygerberg Childrens Hospital Cape Town | Neonates | 2009-13 | Susceptibility of Enterobacteriaceae concerns <i>Klebsiellae pneumoniae</i> and <i>E. coli</i> only (=88,5% of all Enterobacteriaceae) Included | CLSI | 519 | 426 | 49 | 13 | + |
| <u>27</u> | McKay | South Africa | Groote Schuur Hospital, Cape Town | Adult patients | 2011-12 | Included | CLSI | 366 | 214 | 40 | 24 | + |
| <u>28</u> | Zorgani | Libya | Burn and Plastic Surgery Centre | Burn cases | 2000 - 2007 | Missing susceptibility test results. (Author's answer). Not included | NG | 170 | 57 | NG | 6 | - |
| <u>29</u> | Saied | Egypt | Multicentre | 3 univ hosp | 2006-7 | No. of <i>Acinetobacter</i> spp. uncertain: 29 isolates identified, in addition 33 "Nonfermenter spp", i.e. proportion of <i>Acinetobacter</i> 7,5 - 16,1. Not included | CLSI | 386 | 267 | 66 | NG | - |
| <u>30</u> | See | Egypt | Multicentre | 46 egyptian ICUs, all ages(incl 8 NICUs) | 2011-12 | Only 88/362 isolates (24%) sent for susceptibility test. Not included | CLSI | 51 | 29 | NG | 13 | - |
| <u>31</u> | Talaat | Egypt | Incl. 91 ICUs, 28 Hospitals in Egypt. | NICU, Paediatric, Medical, Surgical, Neurological ICU | 2012-14 | Microbes and susceptibility results given for all types of samples/specimen in one. Not included | CLSI | NG | NG | NG | NG | - |
| <u>42</u> | Lachhab | Morocco | Mohammed V Military Teaching Hospital | PICU | 2012 - 13 | Included | NG | 45 | 25 | 57 | 29 | + |
| <u>38</u> | Mitt | Estonia | PICU, Tartu University Hospital | PICU | 2004-8 | Included | CLSI | 47 | 39 | 23 | 11 | + |
| <u>43</u> | Horcajada | Spain | 8 Spanish ICUs | Unselected sepsis patients | 2010-11 | Author's clarification about number of Acinetobacter isolates. Included | CLSI | 371 | 339 | 13 | 1 | + |
| <u>33</u> | Bartoletti | Italy | Orsola-Malpighi Hospital Bologna, Italy | 8874 patients with cirrhosis | 2008-12 | Missing test results provided by author. Included | CLSI / EUCAST | 104 | 77 | 39 | 10 | + |
| <u>44</u> | Softic | Bosnia-Herzegovina | University Clinical Centre Tuzla | NICU | 2012 - 13 | Included | CLSI | 32 | 19 | 58 | 19 | + |
| <u>40</u> | Reunes | Belgium | Ghent University Hospital | Geriatric patients | 1992-2007 | Included | NCCLS | 76 | 61 | 5 | 3 | + |
| <u>34</u> | De Bus | Belgium | Ghent University Hospital | Unselected HAI cohort | 2009 - 11 | Susceptibility results given as mean for all GNB, but 86% of GNB are Enterobacteriaceae. Included | NG | 565 | 487 | 17 | 1 | + |
| <u>41</u> | Tabah | Europe | 162 intensive care units (ICUs) in 24 countries. | Unselected HAI cohorts | 2009 | Included | NG | 759 | 342 | 56 | 21 | + |
| <u>39</u> | Perez Lopez | UK | St. George's Hospital NHS Trust, | Pediatric/NICU | 2001-9 | Only 33% of all Enterobacteriaceae tested for suceptibility. Not included | BSAC | 108 | 78 | NG | 6 | - |
| <u>37</u> | Melzer | UK | Royal London Hospital, Barts Health NHS Trust, | UTI associated bacteremia | 2007-8 | Report of 6 ESBL positives in subset of 83 isolates - number of tested isolates not given. Not included | BSAC | 71 | 62 | NG | 0 | - |

(continued on next page)

Table 1 (continued)

| Ref | First Author | Country | Institution | Patients' cohorts | Sampling year | Pending issue, and outcome of quality check. | Methodology | GNB (no) | Enterobacteriaceae (no) | Resistance rate Enterobacteriaceae | Proportion of Acinetobacter (%) | Quality |
|-----------|--------------|---------|-------------------------------|-------------------------------|-----------------------|--|---------------|----------|-------------------------|------------------------------------|---------------------------------|---------|
| <u>32</u> | Åttman | Finland | Tampere University Hospital | Haematho-logical malignancies | 1999-2001 and 2005-07 | Study population is part of other included study. Not included | CLSI / EUCAST | 171 | 115 | 6 | 0 | - |
| <u>35</u> | Huttunen | Finland | Tampere University Hospital | Unselected HAI cohort | 1999-2001 and 2005-07 | Acinetobacter-rate not given, but no. of non-Pseudomonas non-Enterobacteriaceae GNB was 11, i.e. 2,0% of GNB. Proportion of Acinetobacter defined by us as 1%. Included | CLSI / EUCAST | 548 | 450 | 3 | 1 | + |
| <u>36</u> | Mehl | Norway | Nord-Trøndelag Hospital Trust | Unselected sepsis cases | 2002 - 13 | Missing susceptibility results supplied on demand. Included | EUCAST | 586 | 483 | 4 | 1 | + |

Ref: Reference; no: number; NICU: Newborn Intensive Care Unit; HAI: Hospital acquired infection; CAI: Community acquired infection; CLSI: Clinical & Laboratory Standards Institute; EUCAST: European Committee on Antimicrobial Susceptibility Testing; BSAC: British Society for Antimicrobial Chemotherapy; NCCLS: National Committee for Clinical Laboratory Standards; NG: not given; ICU: Intensive Care Unit; PICU: Pediatric Intensive Care Unit; GNB: Gram-negative bacteria; UTI: Urinary tract infection.

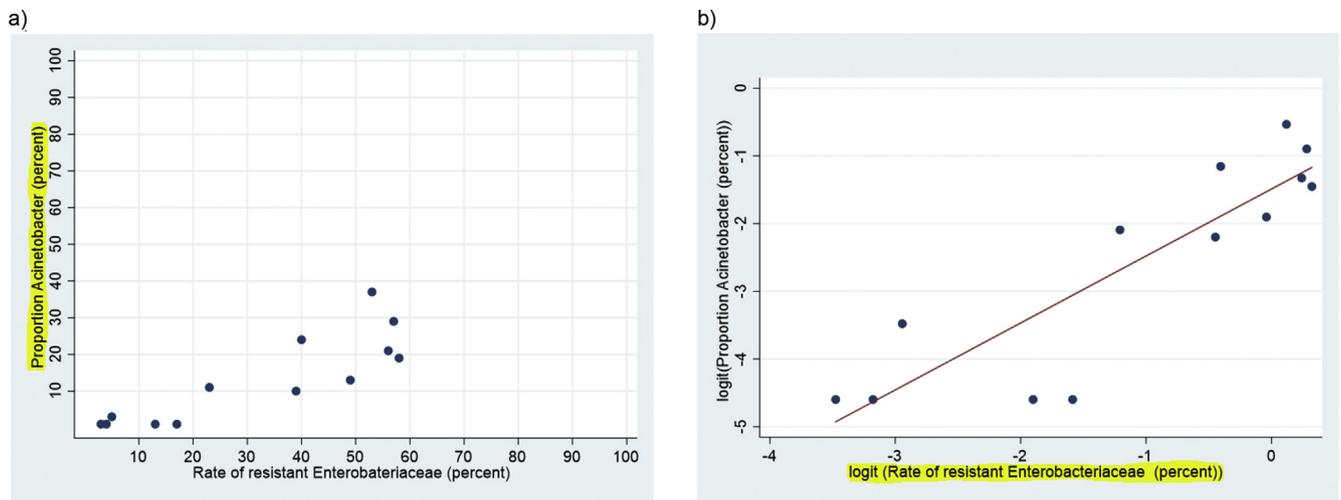


Fig. 2. Correlation between proportion of Acinetobacter spp. and resistance towards third generation Cephalosporins among Enterobacteriaceae; Left (a) absolute proportions, right (b) proportions on log scale with fitted regression line. (Based on reports from European and African institutions).