Accepted Manuscript

The micro-evolution and epidemiology of *Staphylococcus aureus* colonization during atopic eczema disease flare

Catriona P. Harkins, Kerry A. Pettigrew, Katarina Oravcová, June Gardner, R.M.Ross Hearn, Debbie Rice, Alison E. Mather, Julian Parkhill, Sara J. Brown, Charlotte M. Proby, Matthew T.G. Holden

PII: S0022-202X(17)32980-9

DOI: 10.1016/j.jid.2017.09.023

Reference: JID 1096

To appear in: The Journal of Investigative Dermatology

Received Date: 15 May 2017

Revised Date: 11 August 2017

Accepted Date: 12 September 2017

Please cite this article as: Harkins CP, Pettigrew KA, Oravcová K, Gardner J, Hearn RMR, Rice D, Mather AE, Parkhill J, Brown SJ, Proby CM, Holden MTG, The micro-evolution and epidemiology of *Staphylococcus aureus* colonization during atopic eczema disease flare, *The Journal of Investigative Dermatology* (2017), doi: 10.1016/j.jid.2017.09.023.

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.



ACCEPTED MANUSCRIPT

The micro-evolution and epidemiology of *Staphylococcus aureus* colonization during atopic eczema disease flare

Catriona P. Harkins (ORCID:0000-0002-9099-7291) ^{1, 2,3}, Kerry A. Pettigrew (ORCID:0000-0002-6027-0462) ¹, Katarina Oravcová (ORCID:0000-0001-5930-6803) ^{1, 4}, June Gardner², R.M.Ross Hearn ², Debbie Rice⁵, Alison E. Mather ⁶, Julian Parkhill (ORCID:0000-0002-7069-5958) ⁷, Sara J. Brown (ORCID:0000-0002-3232-5251) ^{2, 8}, Charlotte M. Proby ^{2, 3} Matthew T.G. Holden (ORCID:0000-0002-4958-2166) ¹

³ School of Medicine, University of Dundee, Dundee, DD1 9SY, UK

Study location: Dundee, Scotland, UK

Corresponding author: Catriona P. Harkins - E-mail: <u>ch246@st-andrews.ac.uk</u>

Department of Dermatology, Ninewells Hospital and Medical School, Dundee, DD1 9SY,

UK., Tel: +44 7542 250517, Fax: +44 1382 633925.

Short Title: Micro-epidemiology *S. aureus* colonization

Abbreviations: *S. aureus, Staphylococcus aureus*; AE, Atopic eczema; CC, clonal complex; ST sequence type; WGS, Whole Genome Sequencing; SNP, single nucleotide polymorphisms.

¹ School of Medicine, University of St Andrews, St Andrews, KY11 9TF, UK

² Department of Dermatology, Ninewells Hospital, Dundee, DD1 9SY, UK

⁴ Institute of Biodiversity, Animal Health and Comparative Medicine, College of Medical, Veterinary and Life Sciences, University of Glasgow, G12 8QQ, Glasgow, UK

⁵ Scottish Children's Research Network, MACH 2 Building, Level 5, Ninewells Hospital, Dundee, DD1 9SY, UK

⁶ Department of Veterinary Medicine, University of Cambridge, Cambridge, CB3 0ES, UK

⁷ The Wellcome Trust Sanger Institute, Wellcome Trust Genome Campus, Hinxton, Cambridge, CB10 15A, UK

⁸ Skin Research Group, Division of Cancer Research, School of Medicine, University of Dundee, DD1 9SY, UK

Download English Version:

https://daneshyari.com/en/article/8716169

Download Persian Version:

https://daneshyari.com/article/8716169

<u>Daneshyari.com</u>