

Article

Procalcitonin Increase Is Associated with the Development of Critical Care-Acquired Infections in COVID-19 ARDS

Owen Richards ^{1,†}, Philip Pallmann ^{2,†}, Charles King ¹, Yusuf Cheema ¹, Charlotte Killick ¹, Emma Thomas-Jones ², Jessica Harris ³, Catherine Bailey ³ and Tamas Szakmany ^{4,5,*}

¹ School of Medicine, Cardiff University, Cardiff, CF14 4XN, UK; richardso3@cardiff.ac.uk (O.R.); kingc20@cardiff.ac.uk (C.K.); cheemaya@cardiff.ac.uk (Y.C.); killickcj@cardiff.ac.uk (C.K.)

² Centre for Trials Research, Cardiff University, Cardiff, CF14 4XN, UK; pallmannp@cardiff.ac.uk (P.P.); thomas-jonese@cardiff.ac.uk (E.T.-J.)

³ Department of Clinical Biochemistry, Grange University Hospital, Aneurin Bevan University Health Board, Cwmbran, NP44 2XJ, UK; jessica.harris2@wales.nhs.uk (J.H.); catherine.bailey2@wales.nhs.uk (C.B.)

⁴ Department of Anaesthesia, Intensive Care and Pain Medicine, Cardiff University, Cardiff, CF14 4XN, UK

⁵ Critical Care Directorate, Grange University Hospital, Aneurin Bevan University Health Board, Cwmbran, NP44 2XJ, UK

* Correspondence: szakmany1@cardiff.ac.uk

† These authors contributed equally to this work

Supplementary Materials

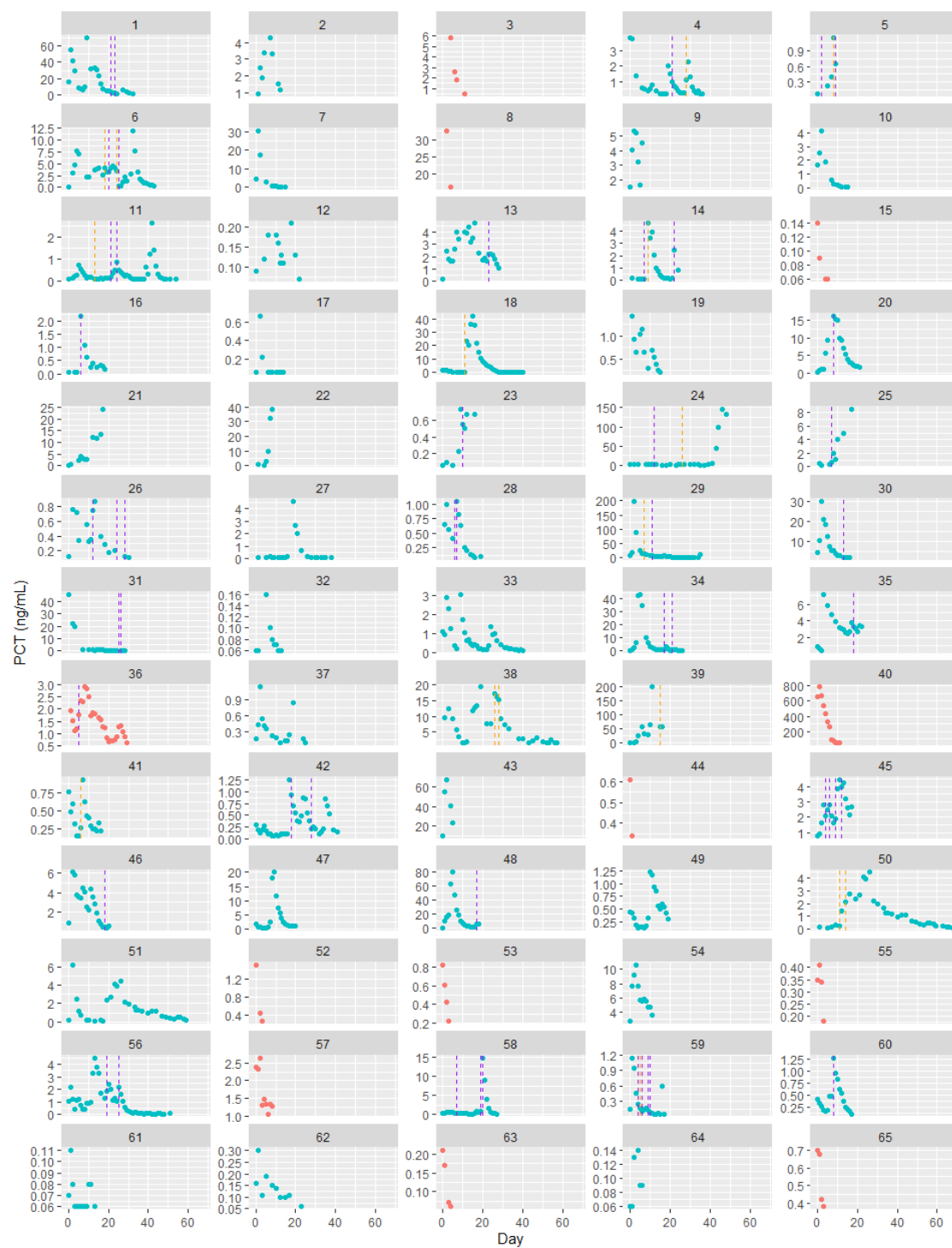


Figure S1. PCT trajectories over time for individual patients (in ng/mL). Green=PCT rise; red=no PCT rise. Purple=VAP/VAT event; orange=LCBI event. NB: y-axis scales are vastly different.



Figure S2. CRP trajectories over time for individual patients (in mg/L). Green=CRP rise; red=no CRP rise. Purple=VAP/VAT event; orange=LCBI event.

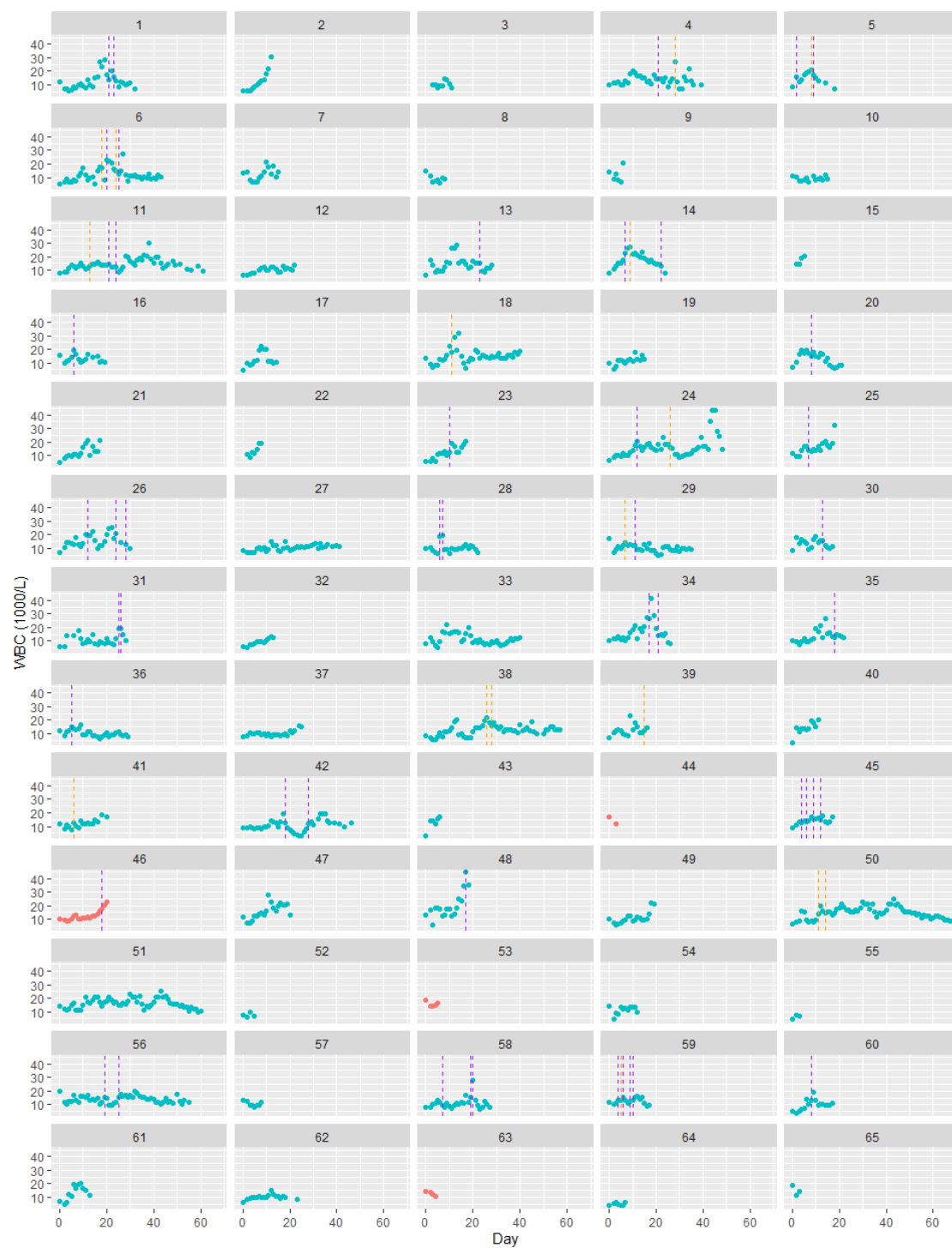


Figure S3. WBC trajectories over time for individual patients (in 1000/L). Green=WBC rise; red=no WBC rise. Purple=VAP/VAT event; orange=LCBI event.

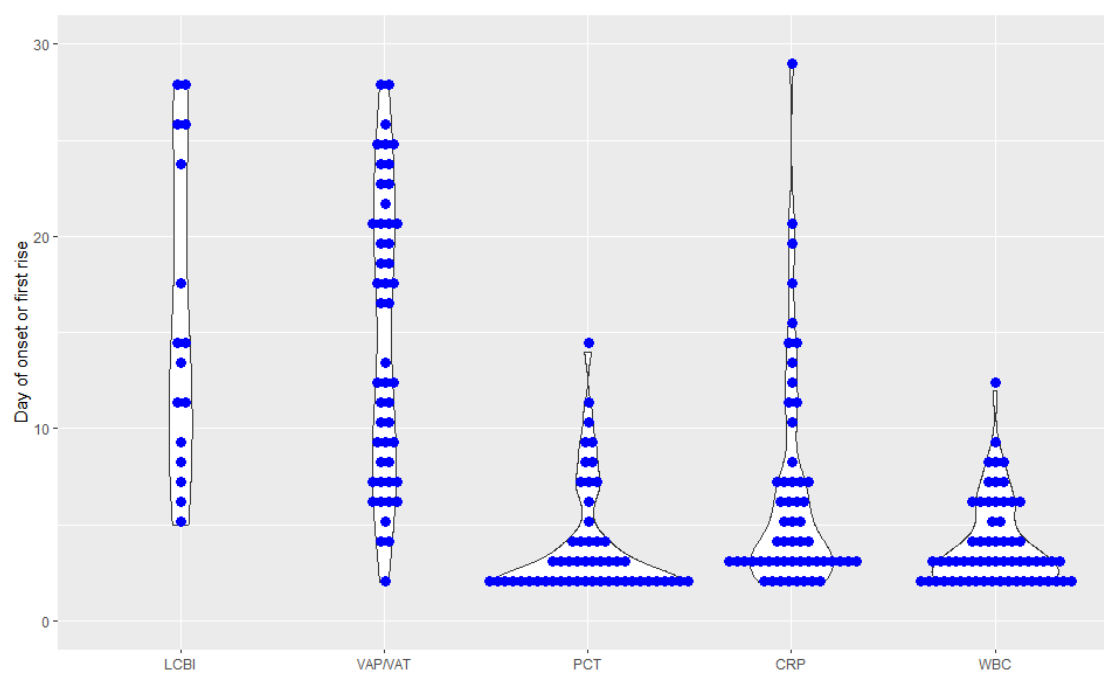


Figure S4. Violin plots for days of LCBI and VAP/VAT onset and first biomarker rise.