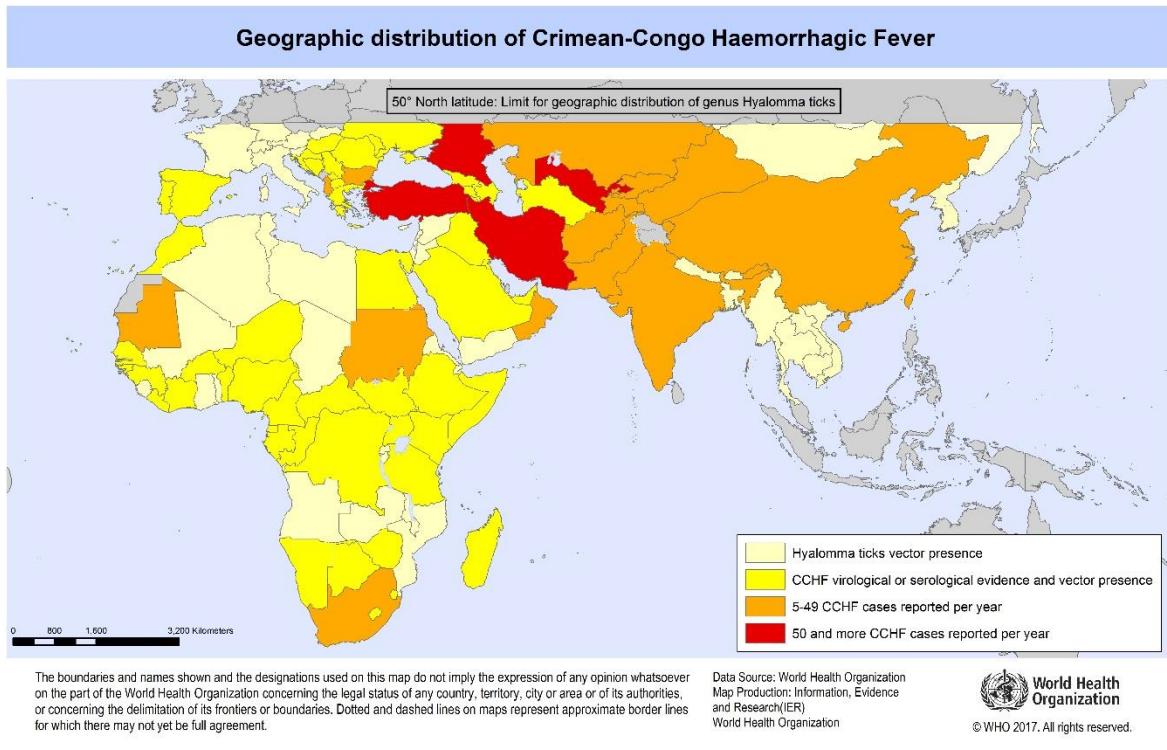


# THE LANCET Infectious Diseases

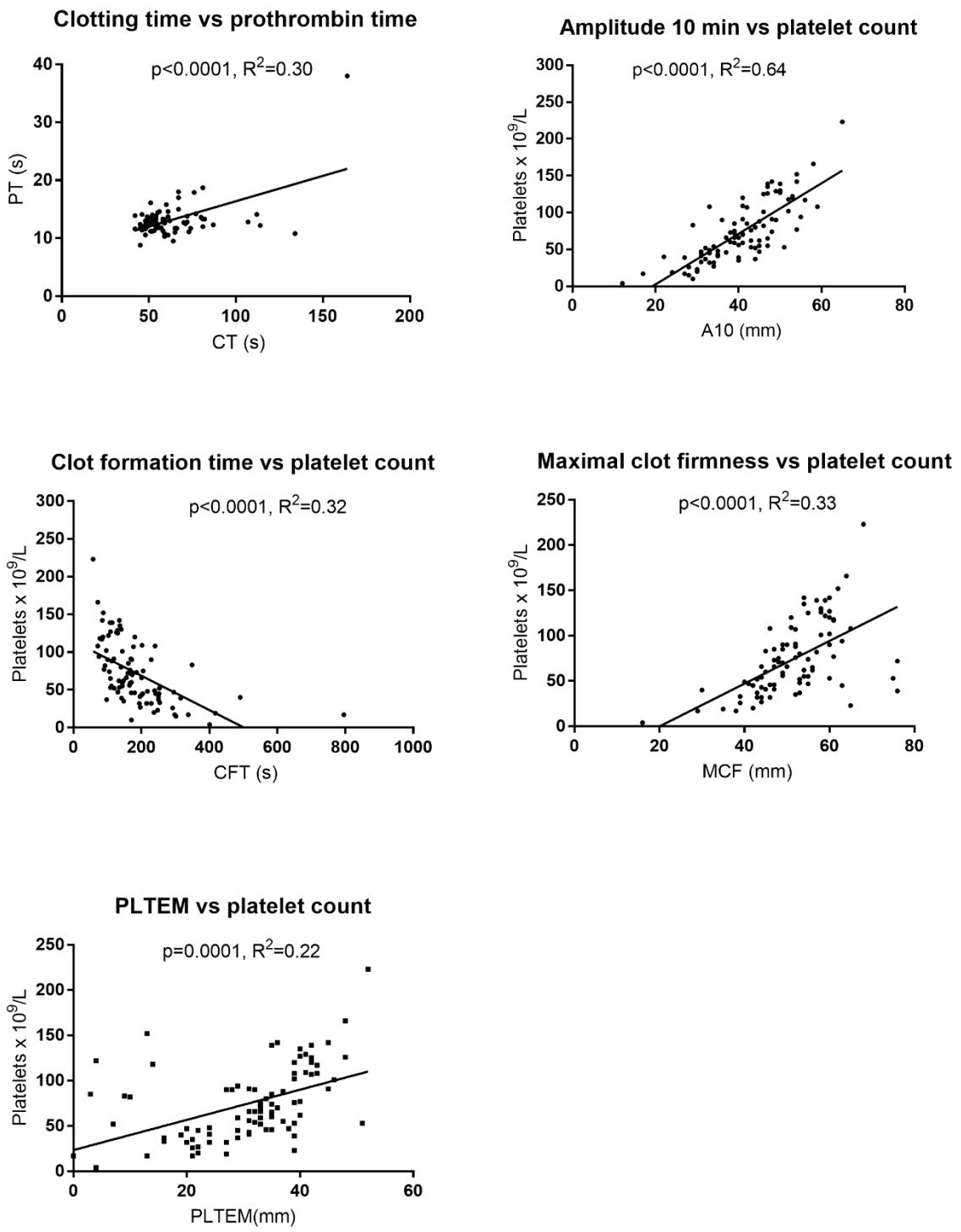
## Supplementary webappendix

This webappendix formed part of the original submission and has been peer reviewed.  
We post it as supplied by the authors.

Supplement to: Fletcher TE, Leblebicioglu H, Bozkurt I, et al.  
Rotational thromboelastometry alongside conventional coagulation testing in  
patients with Crimean–Congo haemorrhagic fever: an observational cohort study.  
*Lancet Infect Dis* 2019; published online June 28. [http://dx.doi.org/10.1016/S1473-3099\(19\)30112-4](http://dx.doi.org/10.1016/S1473-3099(19)30112-4).



Supplementary figure 1. Geographic distribution of CCHF (reproduced with permission WHO).



Supplementary figure 2: ROTEM and conventional coagulation/haematology correlations

<b>Swanepoel criteria</b>	<b>Severity grading system</b>	<b>Severity scoring index</b>
<ul style="list-style-type: none"> <li>- 1<sup>st</sup> 5 days of illness</li> <li>- Any of following &gt;90% predictive fatal outcome</li> </ul>	<ul style="list-style-type: none"> <li>- 1<sup>st</sup> 5 days of illness</li> <li>- 0-4 Low risk</li> <li>- 5-8 Intermediate risk</li> <li>- &gt;9 High risk</li> </ul>	<ul style="list-style-type: none"> <li>- At admission</li> <li>- 0-2 Mild</li> <li>- 3-9 Moderate</li> <li>- 10-13 Severe</li> </ul>
Platelet count $\leq 20 \times 10^9 /L$	Platelet count $\geq 100,000 \text{ cells}/\mu\text{L} = 0$ $\geq 50,000, < 100,000 \text{ cells}/\mu\text{L} = 1$ $< 50,000 \text{ cells}/\mu\text{L} = 2$	Platelet count ( $\times 10^3/\text{mm}^3$ ) $>150 = 0$ $150-50 = 1$ $49-20 = 2$ $<20 = 3$
APTT $\geq 60$ seconds	aPTT (seconds) $<70 = 0$ $\geq 70 = 1$	aPTT (seconds) $\leq 34 = 0$ $35-45 = 1$ $46-59 = 2$ $>60 = 3$
Aspartate transaminase $\geq 200 \text{ U/L}$	Aspartate transaminase $< 5 \times \text{ULNV} = 0$ $\geq 5 \times \text{ULNV} = 1$ Lactate dehydrogenase $< 3 \times \text{ULNV} = 0$ $\geq 3 \times \text{ULNV} = 1$	Fibrinogen level, mg/dL $\geq 180 = 0$ $179-160 = 1$ $159-120 = 2$ $<120 = 3$
Alanine transaminase $\geq 150 \text{ U/L}$	Alanine transaminase $< \text{ULNV} = 0$ $\geq \text{ULNV} = 1$	Bleeding No = 0 Petechia = 1 Ecchymosis = 2 Bleeding = 3
White blood cells $\geq 10,000 \text{ cells}/\mu\text{L}$	White blood cells $< 10,000 \text{ cells } / \mu\text{L} = 0$ $\geq 10,000 \text{ cells } / \mu\text{L} = 1$	Somnolence No = 0 Yes = 1
Fibrinogen $\geq 110 \text{ mg/dL}$ .	Organ failure No = 0 Yes = 1	
	Bleeding No = 0 Yes = 1	
	Age $< 60 = 0$ $> 60 = 1$	
	Prolongation of PT $< 3 \text{ s} = 0$ $\geq 3 \text{ s}, < 6 \text{ s} = 1$ $\geq 6 \text{ s} = 2$	
	Hepatomegaly No = 0 Yes = 1	
	INR $< 1.6 = 0$ $\geq 1.6 = 1$	

Supplementary Table 1: CCHF severity scoring systems

ROTEM parameter		Acute Day 1-3	Acute Day 4-6	Acute Day 7-10	p-value	Acute all	Convalescent Day 14-30	p-value
EXTEM S CT (n=107)	Mean (95% CI)	61.0 (55.8 : 66.2)	64.1 (56.5 : 71.6)	59.7 (52.1 : 67.3)	0.686	62.1 (57.6 : 66.6)	50.7 (47.0 : 54.3)	<0.001
38-79	n	24	38	21		83	13	
>79	n	2	6	3		11	0	
EXTEM S A10 (n=107)	Mean (95% CI)	42.5 (39.0 : 46.1)	37.9 (34.6 : 41.2)	42.6 (38.3 : 46.9)	0.090	40.4 (38.3 : 42.5)	62.9 (58.3 – 67.5)	<0.001
43-65	n	11	15	13		39	13	
<43	n	15	29	11		55	0	
EXTEM S CFT (n=107)	Mean (95% CI)	168 (137 : 200)	210 (169 : 250)	155 (124 : 187)	0.097	184 (161 : 207)	71 (55 : 88)	<0.001
34 - 159 (normal range)	n	10	18	15		43	13	
160 - 220 (usually unimpaired haemostasis with reduced reserve)	n	12	10	5		27	0	
221 - 300 (bleeding risk)	n	3	10	3		16	0	
300 - 400 (high bleeding risk)	n	0	3	1		4	0	
>400 (usually no effective haemostasis)	n	1	3	0		4	0	
EXTEM S MCF (n=102)	Mean (95% CI)	52.3 (48.7 : 55.9)	48.7 (45.2 : 52.2)	55.5 (52.2 : 58.8)	0.024	51.5 (49.4 : 53.5)	68.5 (64.8 : 72.3)	<0.001
>50 (normal range)	n	13	22	16		47	13	
46-49 (usually unimpaired haemostasis with reduced reserve)	n	9	5	2		16	0	
40-45 (bleeding risk)	n	3	9	4		16	0	
30-40 (high bleeding risk)	n	1	4	1		6	0	
<30 (usually no effective haemostasis)	n	0	2	0		4	0	
EXTEM S LI60 (n=93)	Mean (95% CI)	95.0 (93.6 : 96.4)	97.9 (96.9 : 98.8)	96.4 (94.4 : 98.4)	<0.001	96.7 (95.8 : 97.7)	94.8 (93.6 : 96.0)	0.021
<15% (normal range)	n	22	40	19		81	12	
>15%	n	0	0	0		0	0	
FIBTEM S A10 (n=105)	Mean (95% CI)	12.7 (11.6 : 13.9)	14.1 (12.6 : 15.7)	16.2 (14.6 : 17.8)	0.003	14.3 (13.3 : 15.3)	16.8 (13.5 : 20.1)	0.146
>7 (normal range 7-23)	n	24	43	24		91	13	
<7	n	1	0	0		1	0	
FIBTEM S MCF (n=105)	Mean (95% CI)	17.0 (13.1 : 20.9)	20.2 (16.9 : 23.5)	23.8 (19.8 : 27.7)	0.082	20.3 (18.0 : 22.5)	22.4 (13.4 : 31.3)	0.650
>9 (normal range 9-25)	n	24	42	24		90	13	
<9	n	1	1	0		2	0	

Supplementary Table 2. ROTEM Thromboelastometry data by grouped day of acute illness and acute vs convalescent samples

95%CI: 95% confidence interval