

# THE LANCET

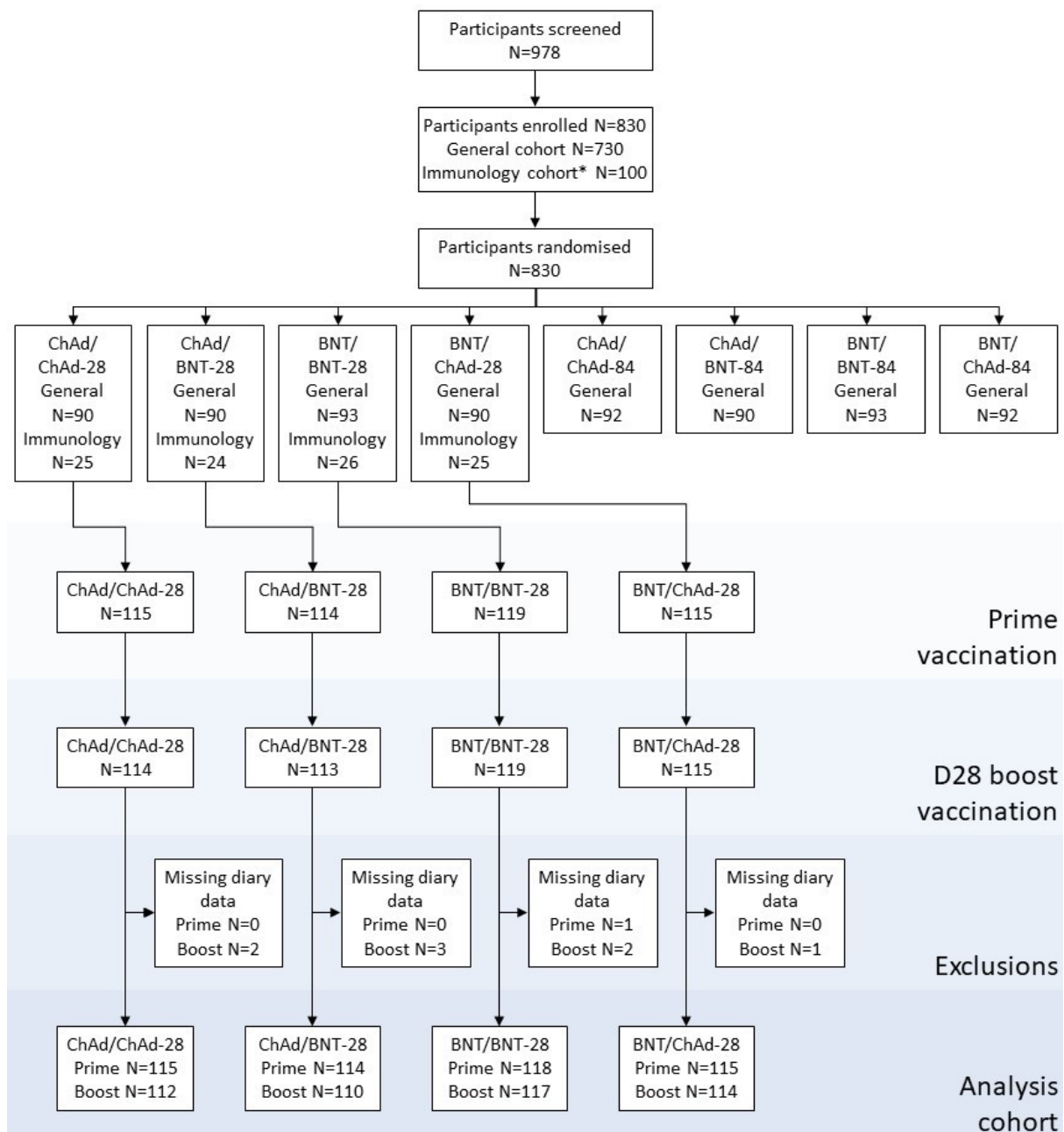
## Supplementary appendix

This appendix formed part of the original submission. We post it as supplied by the authors.

**This online publication has been corrected. The corrected version first appeared at [thelancet.com](http://thelancet.com) on May 18, 2021.**

Supplement to: Shaw RH, Stuart A, Greenland M, et al. Heterologous prime-boost COVID-19 vaccination: initial reactogenicity data. *Lancet* 2021; published online May 12. [http://dx.doi.org/10.1016/S0140-6736\(21\)01115-6](http://dx.doi.org/10.1016/S0140-6736(21)01115-6).

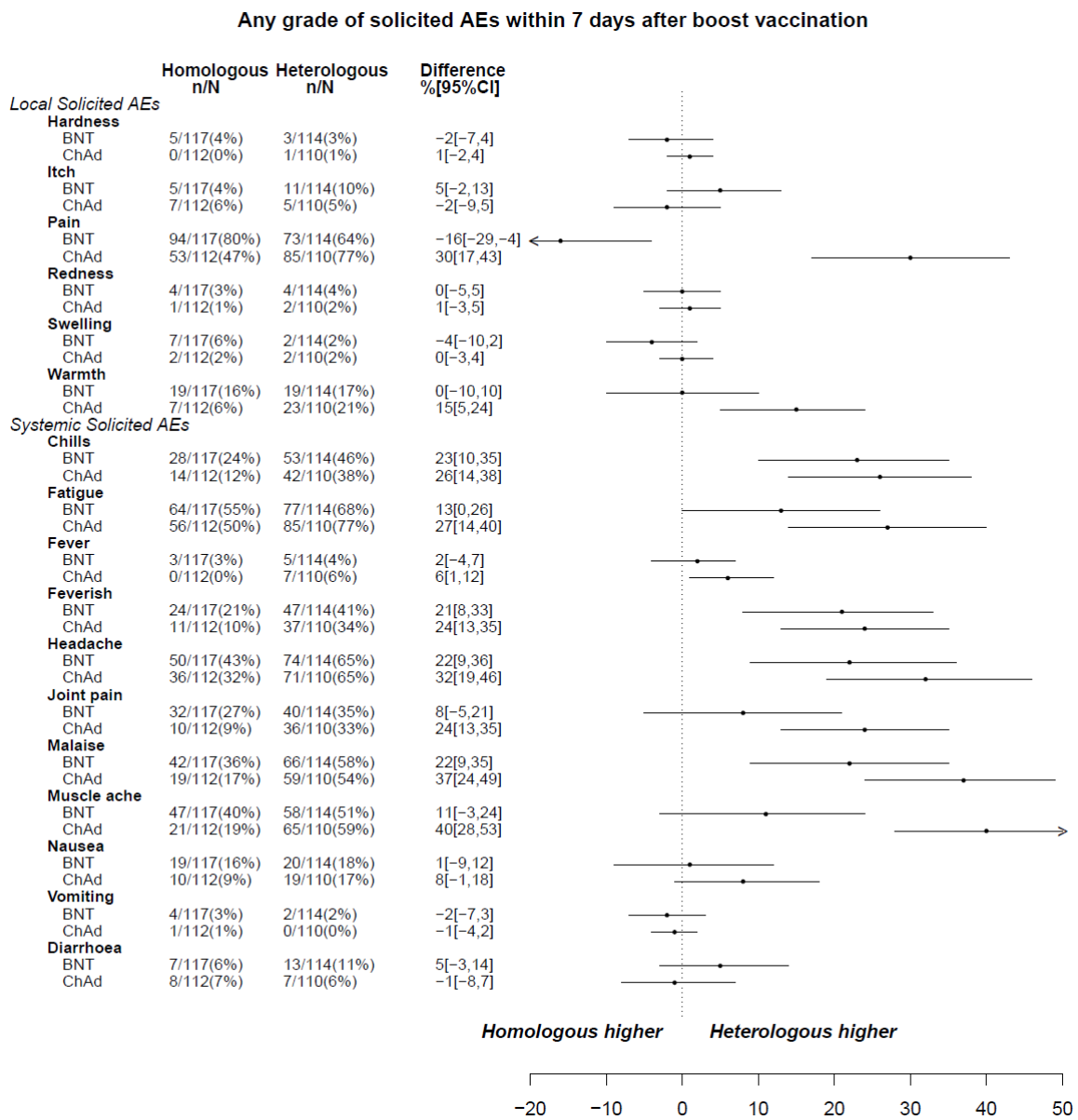
Supplementary Figure 1: CONSORT flow diagram of participants



\* The immunology cohort was only randomised to the four arms with 28 days prime-boost interval.

Participants were recruited at eight sites: University College London Hospitals NHS Foundation Trust; St Georges University Hospitals NHS Foundation trust; University Hospitals Birmingham NHS Foundation Trust; North Bristol NHS trust; Oxford Vaccine Group, University of Oxford; The University of Nottingham Health Services; University Hospital Southampton NHS Foundation Trust and Liverpool School of Tropical Medicine.

1 *Supplementary Figure 2: Forest plot*

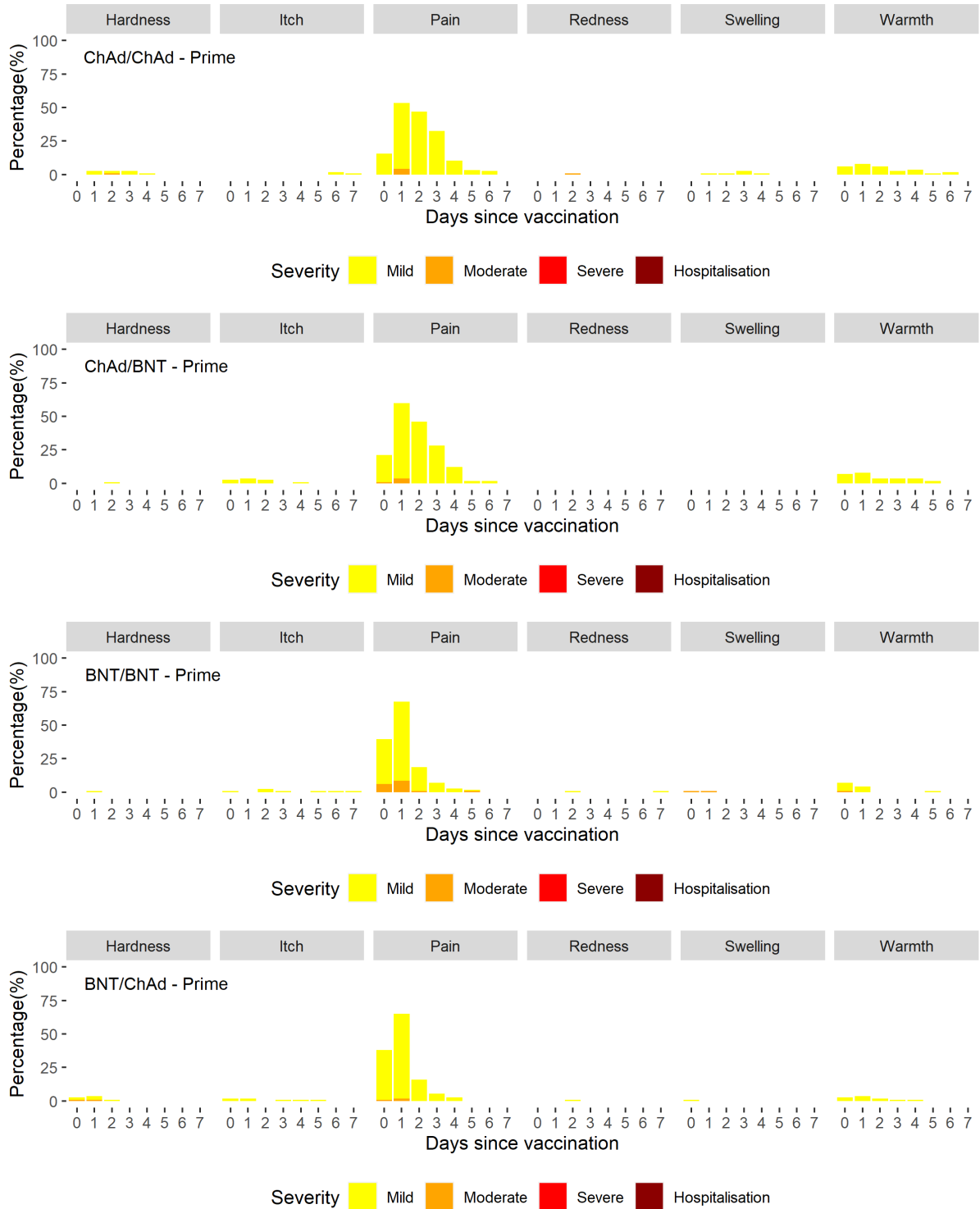


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BNT and ChAd refer to the prime vaccination. Forest plot presents the absolute differences in the proportion of participants with any grade solicited AEs (across 7 days post boost vaccination) with 95% confidence intervals (Yates's correction for continuity) between the heterologous and homologous arms.

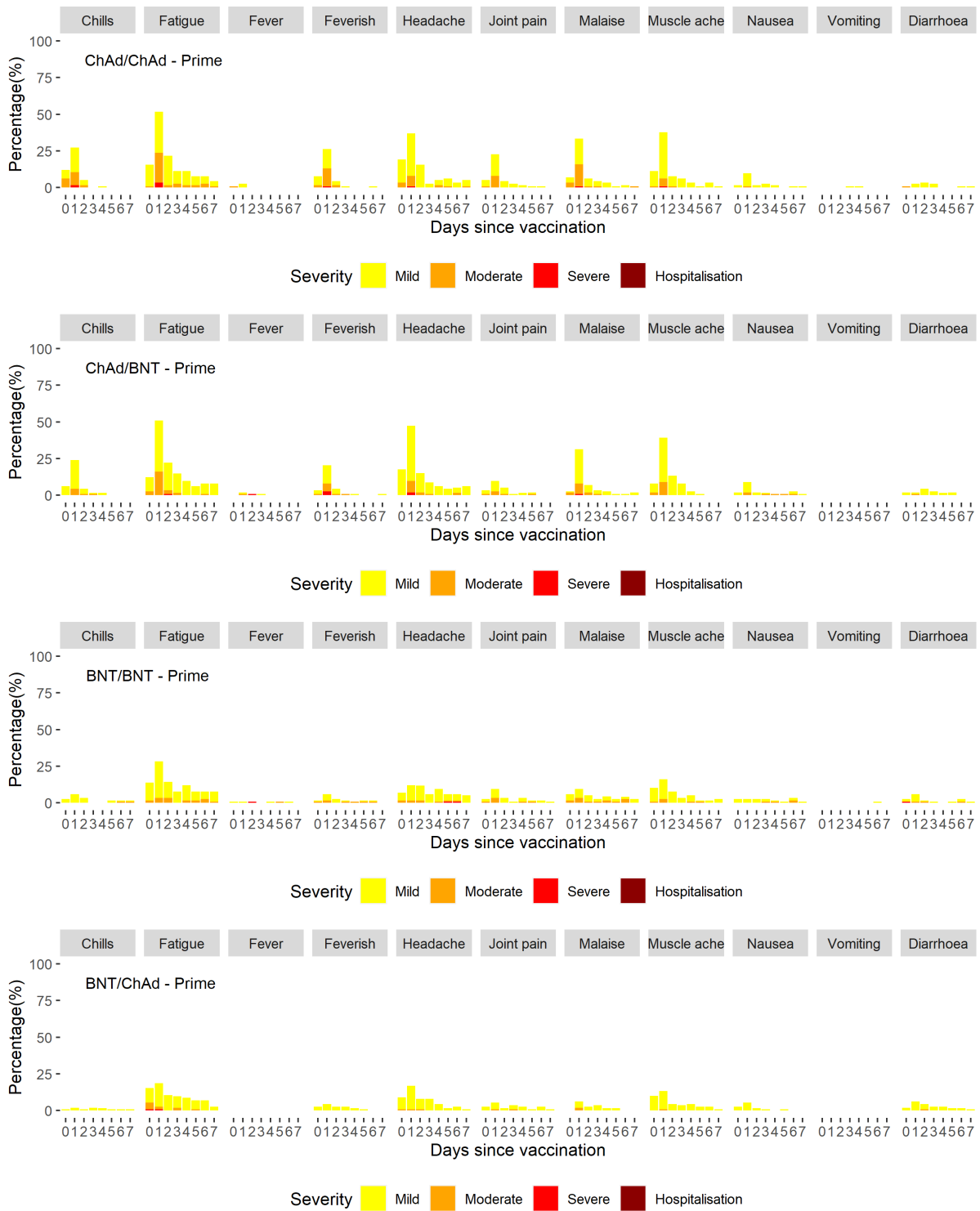
9 *Supplementary Figure 3: Solicited local and systemic reactions across the first 7 days following*  
 10 *vaccination as self-reported in participant electronic diaries by prime/boost vaccination and study arm,*  
 11 *A) local following prime; B) systemic following prime; C) local following boost; D) systemic following*  
 12 *boost.*

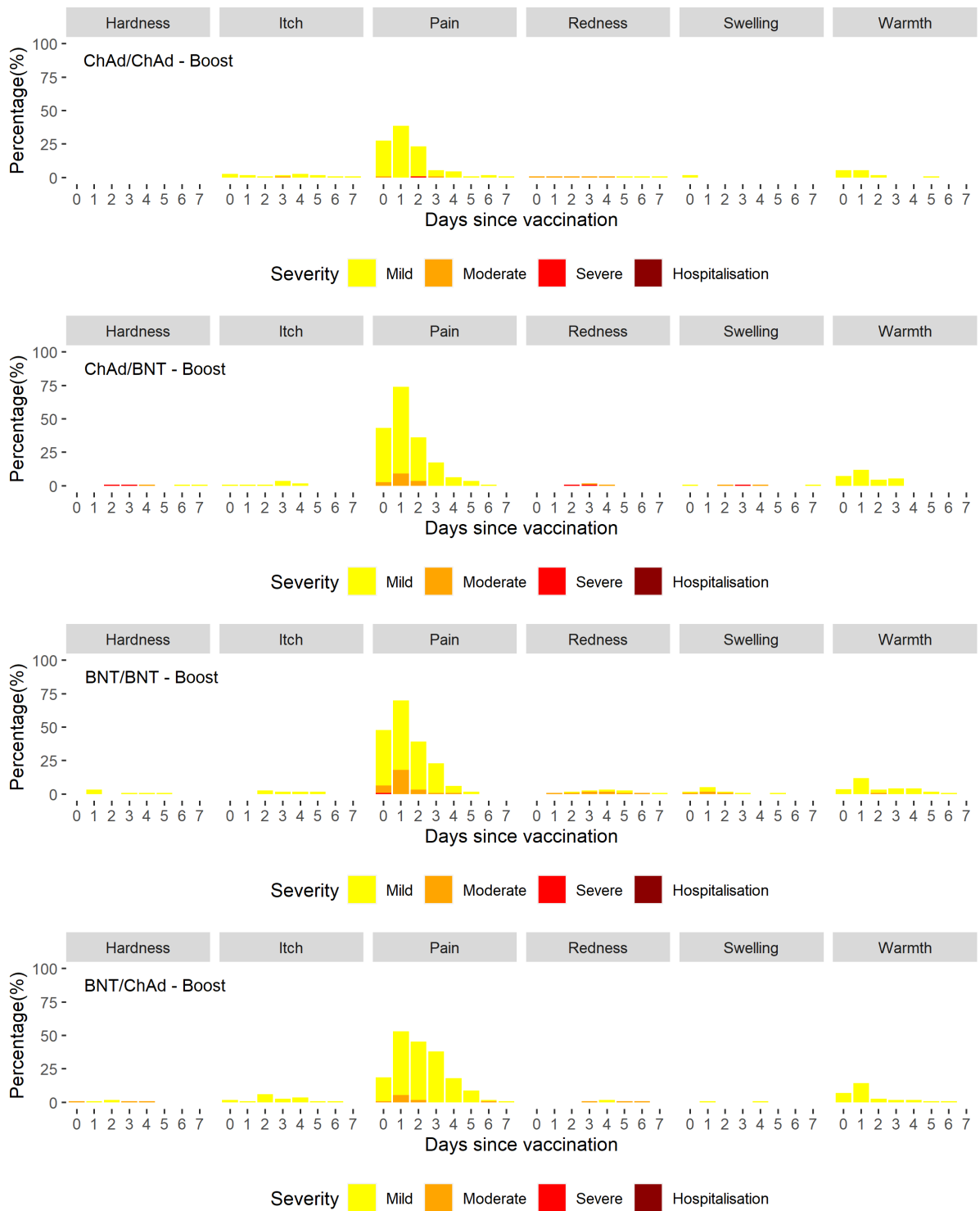
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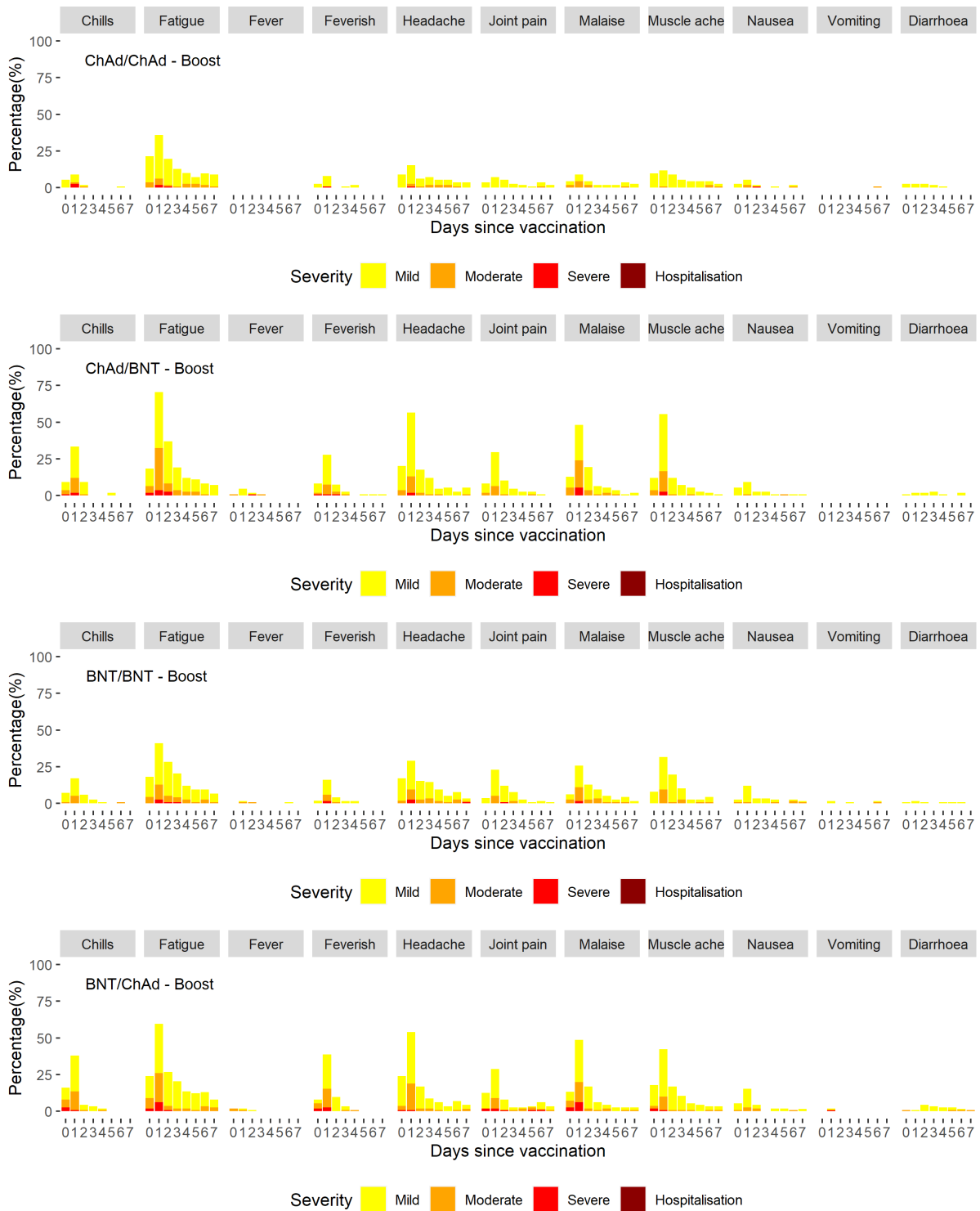


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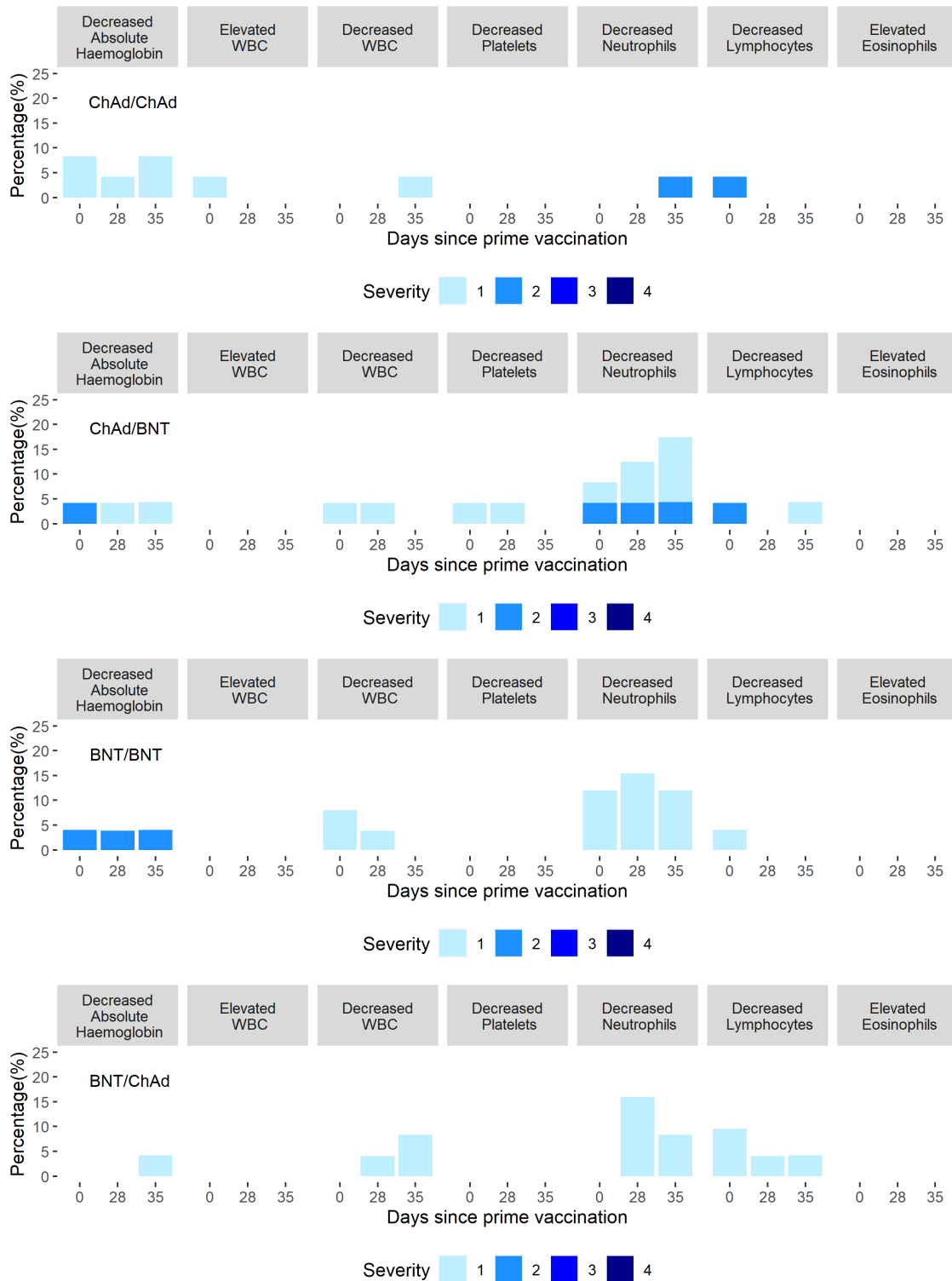
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24 D0 is the day of prime/boost vaccination. Fever: Mild: 38.0°C to <38.5°C; moderate: 38.5°C to <39°C;  
 25 severe: ≥39.0°C. Feverish: Self-reported feeling of feverishness. For systemic symptoms, grading was classified  
 26 as: Mild – easily tolerated with no limitation on normal activity; Moderate – some limitation of daily activity;  
 27 Severe – unable to perform normal daily activity

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29 *Supplementary Figure 4: Severity of haematology (A) and biochemistry (B) at day0 (prior to prime*  
 30 *dose), day28 (prior to boost dose), and day 35 (7 days post boost dose) by study arm in the immunology*  
 31 *cohort.*

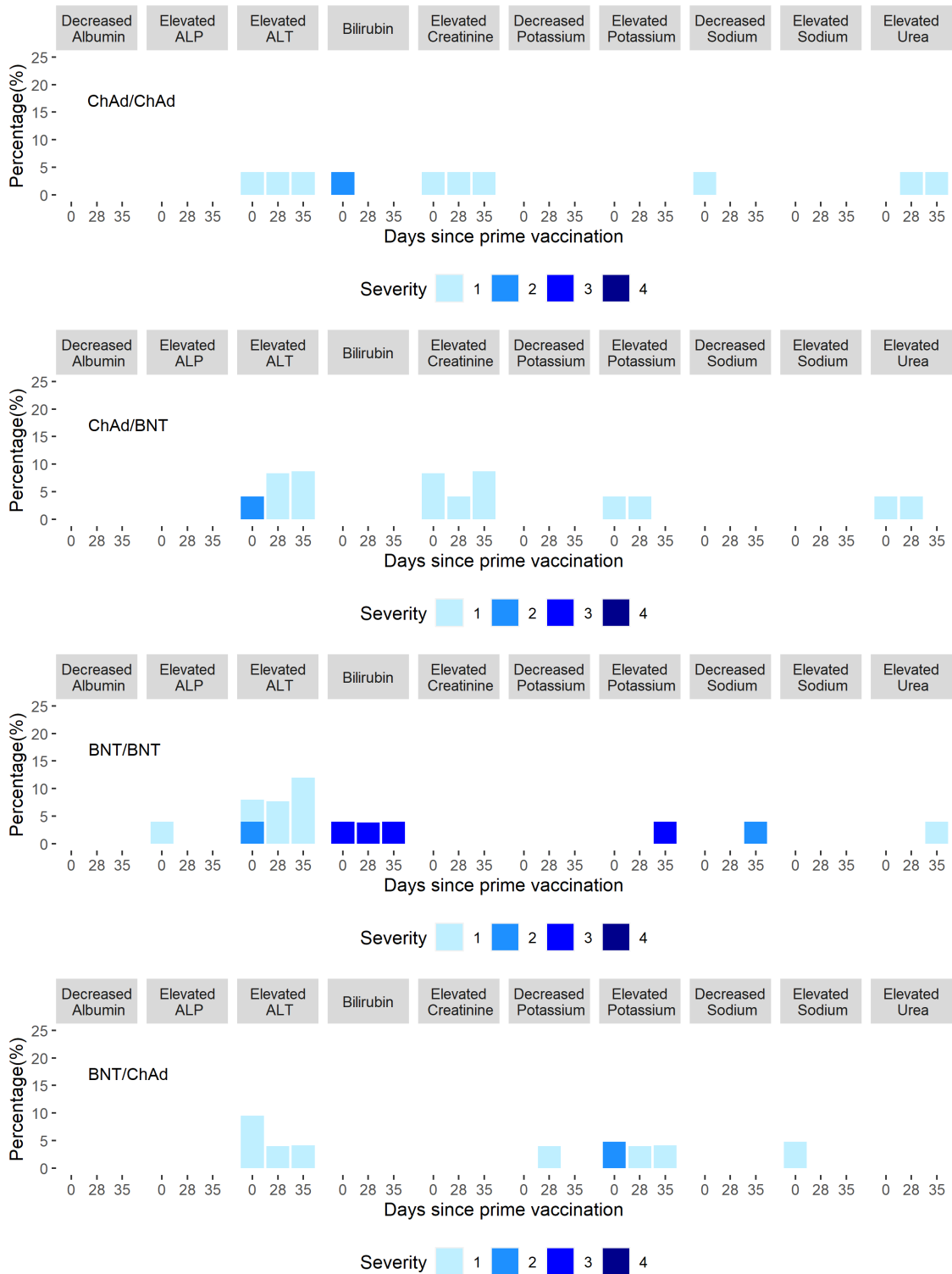
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37 The details of grading are shown in supplementary table 1.

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40 **Supplementary table 1: Modified FDA toxicity grading table for laboratory adverse events**

		Units	Lab range	Grade 1	Grade 2	Grade 3	Grade 4
<b>Haematology</b>							
Haemoglobin Absolute	Male	g/l	130-170	115-125	100-114	85-99	<85
Haemoglobin Absolute	Female	g/l	120-150	105-113	90-104	80-89	<80
Haemoglobin change from baseline			n/a	10-15	16-20	21-50	>50
White Blood Cells	Elevated	x 10 <sup>9</sup> /L	11.00	11.50-15.00	15.01-20.00	20.01-25.00	>25.00
White Blood Cells	Low	x 10 <sup>9</sup> /L	4.00	2.50-3.50	1.50-2.49	1.00-1.49	<1.00
Platelets	Low	x 10 <sup>9</sup> /L	150-400	125-140	100-124	25-99	<25
Neutrophils	Low	x 10 <sup>9</sup> /L	2.00-7.00	1.50-1.99	1.00-1.49	0.50-0.99	<0.50
Lymphocytes	Low	x 10 <sup>9</sup> /L	1.00-4.00	0.75-0.99	0.50-0.74	0.25-0.49	<0.25
Eosinophils	Elevated	x 10 <sup>9</sup> /L	0.02-0.50	0.65-1.50	1.51-5.00	>5.00	Hypereosinophilia
<b>Biochemistry</b>							
Sodium	Elevated	mmol/L	145	146-147	148-149	150-155	>155
Sodium	Low	mmol/L	135	132-134	130-131	125-129	<125
Potassium	Elevated	mmol/L	5.0	5.1-5.2	5.3-5.4	5.5-6.5	>6.5
Potassium	Low	mmol/L	3.5	3.2-3.3	3.1	2.5-3.0	<2.5
Urea	Elevated	mmol/L	2.5-7.4	8.2-9.3	9.4-11.0	>11.0	Requires dialysis
Creatinine	Elevated	µmol/L	49-104	1.1-1.5xULN 114-156	>1.5-3.0xULN 157-312	>3.0xULN >312	Requires dialysis
Bilirubin	Elevated Normal LFTs	µmol/L	0-21	1.1-1.5xULN 23-32	>1.5-2xULN 33-42	>2-3xULN 43-63	>3xULN >63
Bilirubin	Elevated Abnormal LFTs	µmol/L	0-21	1.1-1.25xULN 23-26	>1.25-1.5xULN 27-32	>1.5-1.75xULN 33-37	>1.75xULN >37
ALT	Elevated	IU/L	10-45	1.1-2.5xULN 49-112	>2.5-5xULN 113-225	>5-10xULN 226-450	>10xULN >450
ALP (Alkaline phosphatase)	Elevated	IU/L	30-130	1.1-2xULN 143-260	>2-3xULN 261-390	>3-10xULN 391-1300	>10xULN >1300
Albumin	Low	g/L	32-50	28-31	25-27	<25	-
CRP	Elevated	mg/L	0-10	11-30	31-100	101-200	>200

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