

## Supplementary file 3

Table B: Model Covariates and Coefficients

Fixed effects		OR	std error	p-value
(Intercept)		1.40	0.05	0.000
Sex	male (ref)	1.00		
	female	0.97	0.01	0.000
Deprivation quintile	1 (ref)	1.00		
	2	0.99	0.01	0.181
	3	1.00	0.01	0.616
	4	1.00	0.01	0.559
	5	1.01	0.01	0.498
Ethnicity	white (ref)	1.00		
	asian	0.89	0.01	0.000
	black	0.88	0.02	0.000
	mixed parentage	0.90	0.02	0.000
	not know / not stated	0.85	0.01	0.000
	other	0.82	0.02	0.000
Arrival mode	ambulance (ref)	1.00		
	walk-in	0.34	0.01	0.000
Arrival month	Jun (ref)	1.00		
	Jan	1.00	0.01	0.885
	Feb	0.97	0.01	0.005
	Mar	0.97	0.01	0.005
	Apr	0.97	0.01	0.013
	May	0.98	0.01	0.086
	Jul	1.00	0.01	0.918
	Aug	1.01	0.01	0.344
	Sep	1.02	0.01	0.156
	Oct	1.00	0.01	0.849
	Nov	0.98	0.01	0.101
	Dec	0.95	0.01	0.000
	Arrival weekday	Mon (ref)	1.00	
Tue		1.05	0.01	0.000
Wed		1.06	0.01	0.000
Thu		1.07	0.01	0.000
Fri		1.07	0.01	0.000
Sat		1.08	0.01	0.000
Sun		0.99	0.01	0.189
Arrival hour	12 (Ref)	1.00		
	0	0.84	0.02	0.000
	1	0.83	0.02	0.000
	2	0.83	0.02	0.000
	3	0.84	0.02	0.000
	4	0.89	0.02	0.000
	5	0.97	0.02	0.182
	6	1.04	0.02	0.049
	7	1.02	0.02	0.274
	8	0.87	0.02	0.000
	9	0.89	0.01	0.000
	10	0.95	0.01	0.000
	11	0.99	0.01	0.371
	13	0.96	0.01	0.004
	14	0.91	0.01	0.000
	15	0.88	0.01	0.000
	16	0.89	0.01	0.000
	17	0.89	0.01	0.000
	18	0.87	0.01	0.000
	19	0.76	0.02	0.000
	20	0.80	0.02	0.000

<b>Fixed effects</b>		<b>OR</b>	<b>std error</b>	<b>p-value</b>
	21	0.87	0.02	0.000
	22	0.86	0.02	0.000
	23	0.82	0.02	0.000
Prior activity (28 days)	none (ref)	1.00		
	attended % admitted	1.76	0.01	0.000
	attended only	0.91	0.01	0.000
Prior activity (29-365 days)	none (ref)	1.00		
	attended % admitted	1.36	0.01	0.000
	attended only	0.85	0.01	0.000
Diagnosis:ambulance conveyed	Respiratory conditions (ref)	1.00		
	Not known / recorded	1.40	0.02	0.000
	Laceration	0.21	0.03	0.000
	Contusion/abrasion	0.20	0.02	0.000
	Soft tissue inflammation	0.37	0.03	0.000
	Head injury	0.29	0.02	0.000
	Dislocation/fracture/joint injury/amputation	1.07	0.02	0.001
	Sprain/ligament injury	0.18	0.03	0.000
	Muscle/tendon injury	0.26	0.04	0.000
	Nerve injury	1.00		
	Vascular injury	0.55	0.16	0.000
	Burns and scalds	0.67	0.07	0.000
	Electric shock	0.47	0.09	0.000
	Foreign body	0.00		
	Bites/stings	0.84	0.02	0.000
	Poisoning	1.67	0.33	0.120
	Visceral injury	3.08	0.09	0.000
	Infectious disease	1.61	0.03	0.000
	Local infection	1.40	0.04	0.000
	Septicaemia	7.78	0.05	0.000
	Cardiac conditions	0.93	0.02	0.000
	Cerebro-vascular conditions	1.17	0.02	0.000
	Other vascular conditions	0.73	0.05	0.000
	Haematological conditions	1.41	0.03	0.000
	Central Nervous System conditions (exc. strokes)	0.71	0.02	0.000
	Gastrointestinal conditions	0.90	0.02	0.000
	Urological conditions	0.89	0.02	0.000
	Obstetric conditions	1.62	0.17	0.005
	Gynaecological conditions	1.06	0.04	0.136
	Diabetes and other endocrinological conditions	2.21	0.04	0.000
	Dermatological conditions	0.43	0.07	0.000
	Allergy	0.40	0.05	0.000
	Facio-maxillary conditions	0.34	0.13	0.000
	ENT conditions	0.32	0.03	0.000
	Psychiatric conditions	0.56	0.02	0.000
	Ophthalmological conditions	0.15	0.12	0.000
	Social problem	1.34	0.04	0.000
	Nothing abnormal detected	0.31	0.02	0.000
Diagnosis:walk-in	Respiratory conditions (ref)	1.00		
	Not known / recorded	1.70	0.02	0.000
	Laceration	0.78	0.03	0.000
	Contusion/abrasion	0.43	0.03	0.000
	Soft tissue inflammation	1.05	0.04	0.187
	Head injury	0.85	0.03	0.000
	Dislocation/fracture/joint injury/amputation	0.24	0.03	0.000
	Sprain/ligament injury	0.24	0.05	0.000
	Muscle/tendon injury	0.52	0.05	0.000
	Nerve injury	0.00		
	Vascular injury	1.26	0.22	0.287
	Burns and scalds	0.52	0.08	0.000
	Electric shock	0.57	0.10	0.000
	Foreign body	3.69		
	Bites/stings	1.80	0.03	0.000

<b>Fixed effects</b>	<b>OR</b>	<b>std error</b>	<b>p-value</b>
Poisoning	0.53	0.60	0.299
Visceral injury	1.11	0.11	0.377
Infectious disease	0.62	0.03	0.000
Local infection	0.54	0.05	0.000
Septicaemia	2.76	0.08	0.000
Cardiac conditions	1.80	0.02	0.000
Cerebro-vascular conditions	1.29	0.03	0.000
Other vascular conditions	1.06	0.06	0.375
Haematological conditions	2.13	0.05	0.000
Central Nervous System conditions (exc. strokes)	1.66	0.03	0.000
Gastrointestinal conditions	1.63	0.02	0.000
Urological conditions	1.23	0.02	0.000
Obstetric conditions	1.72	0.19	0.004
Gynaecological conditions	1.42	0.04	0.000
Diabetes and other endocrinological conditions	1.44	0.05	0.000
Dermatological conditions	0.92	0.07	0.235
Allergy	0.98	0.06	0.798
Facio-maxillary conditions	1.01	0.13	0.936
ENT conditions	1.57	0.04	0.000
Psychiatric conditions	1.63	0.03	0.000
Ophthalmological conditions	0.52	0.13	0.000
Social problem	0.94	0.07	0.420
Nothing abnormal detected	1.54	0.02	0.000

<b>Random effect</b>	<b>Estimated df</b>	<b>Residual df</b>	<b>p-value</b>
Provider	11.962	12.000	0.000

<b>Non-parametric (smoothed) term</b>	<b>Estimated df</b>	<b>Residual df</b>	<b>p-value</b>
(age-55):sex(male)	8.88	8.987	0.000
(age-55)::sex(female)	8.841	8.978	0.000
ED patients	4.516	5.500	0.000
emergency inpatients	3.433	4.321	0.044
overnight elective inpatients	7.518	8.317	0.000
elective day case in patients	6.424	7.382	0.000
maternity inpatients	3.646	4.547	0.022