

Supplementary Table 1: Treatment prior to presentation (percentage of all patients and median (IQR) for hospital sites)

	Patients with diagnosis of epilepsy			Patients with known blackouts or seizures, but no epilepsy			Patients with neither prior epilepsy nor blackouts/seizures		
	mean (%) n=2,492	site median (%) n=127	IQR by site	mean (%) n=564	site median (%) n=127	IQR by site	mean (%) n=695	site median (%) n=127	IQR by site
Two or more drugs as polytherapy	34.8	35.7	30-50	3.5	0.0	0-0	0.7	0.0	0-0
Monotherapy	49.4	50.0	50-70	15.6	12.5	0-25	6.9	0.0	0-11
No AEDs	15.7	14.3	7-22	80.9	85.7	70-100	92.4	100.0	88-100
Been seen by a neurological specialist in one year	33.8	30.8	22-46	19.1	16.7	0-33	5.6	0.0	0-10

Supplementary Table 2: A selection of the assessments made for patients presenting with seizure (percentage of all patients and median (IQR) for hospital sites) – a full list is available from www.nashstudy.org

	Patients with diagnosis of epilepsy			Patients with known blackouts or seizures, but no epilepsy			Patients with neither prior epilepsy nor blackouts/seizures		
	mean (%) n=2,492	site median (%) n=127	IQR by site	mean (%) n=564	site median (%) n=127	IQR by site	mean (%) n=695	site median (%) n=127	IQR by site
Glasgow Coma Score	86.6	90.5	83-98	90.4	100.0	86-100	90.9	100.0	86-100
Plantar reflex tested	34.6	30.0	18-46	36.4	33.3	0-59	47.2	45.5	22-67
Fundi Examined	15.5	6.7	0-22	17.6	0.0	0-29	21.9	10.0	0-29
Eyewitness history taken or sought	56.2	52.4	38-71	53.1	50.0	33-75	66.2	75.0	50-100
Temperature	86.6	90.0	81-96	87.1	100.0	80-100	87.8	100.0	80-100
Review by a senior doctor in ED	47.2	48.3	30-64	46.6	50.0	20-75	49.4	50.0	25-78
Documentation of general alcohol intake	37.1	36.0	21-50	54.4	50.0	29-75	50.2	50.0	33-71

Supplementary Table 3: A selection of the investigations and actions recorded for patients presenting with seizure (percentage of all patients and median (IQR) for hospital sites; excludes 37 patients who died in hospital)

	Patients with diagnosis of epilepsy			Patients with known blackouts or seizures, but no epilepsy			Patients with neither prior epilepsy nor blackouts/seizures		
	mean (%) n=2,492	site median (%) n=127	IQR by site	mean (%) n=564	site median (%) n=127	IQR by site	mean (%) n=695	site median (%) n=127	IQR by site
ECG	54.5	55.6	37-73	62.6	66.7	40-100	71.7	83.3	50-100
Either CT or MRI	17.4	16.1	8-24	25.7	25.0	0-44	46.0	45.5	29-60
Admission	57.2	50.0	35-77	50.5	50.0	33-75	62.7	66.7	50-91
Management of future seizures discussed with the patient or carers	29.4	23.5	9-48	26.7	20.0	0-44	26.8	20.0	0-50
Any epilepsy specialist referral as an outpatient	35.8	33.3	22-46	40.5	40.0	20-61	42.0	50.0	17-69
Seen by epilepsy specialist at/in the hospital	17.5	13.3	5-26	19.1	12.5	0-33	16.4	0.0	0-25
Either or Both of the two rows above	40.9	40.0	25-52	45.6	50.0	25-67	48.5	50.0	22-71