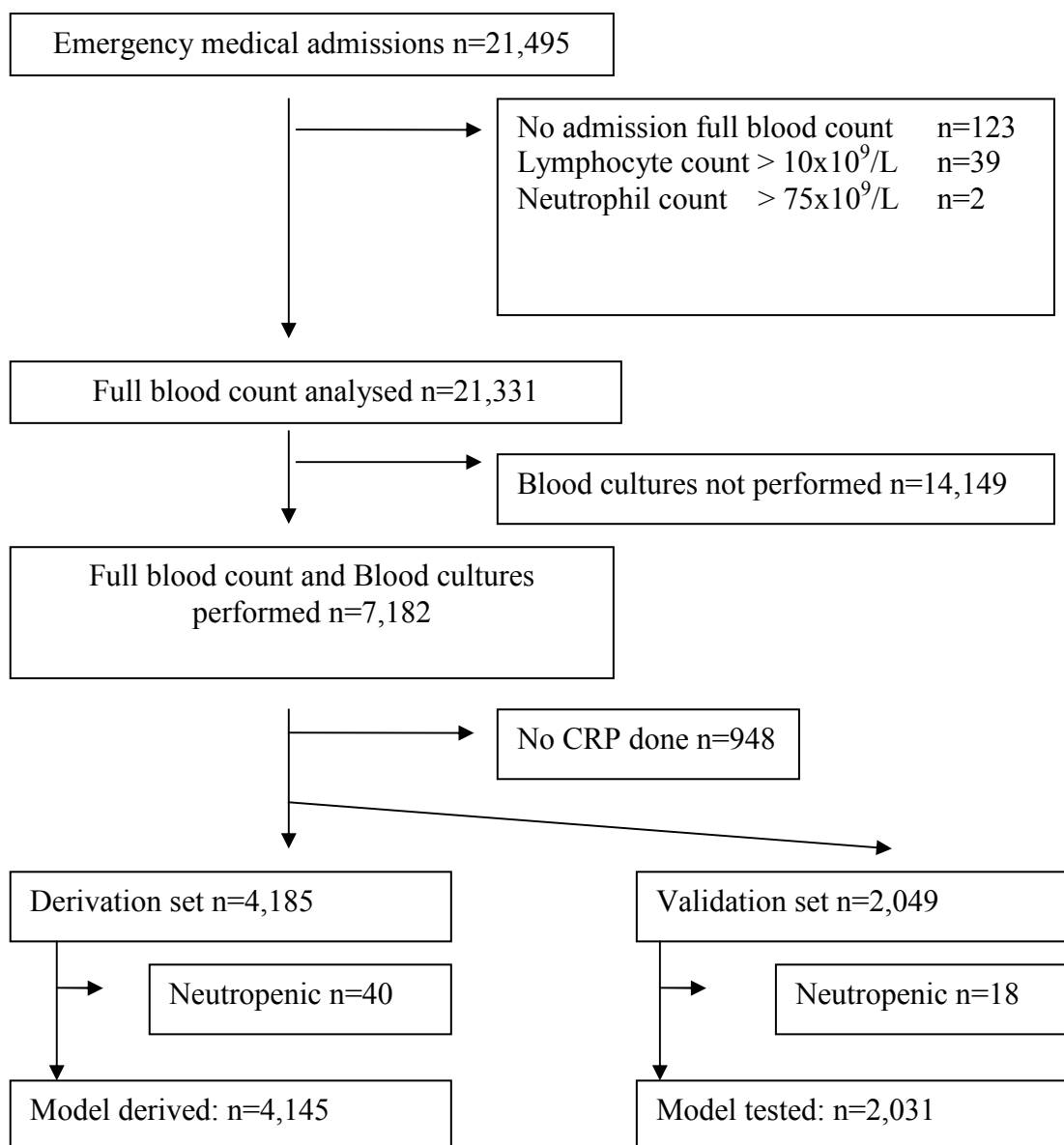


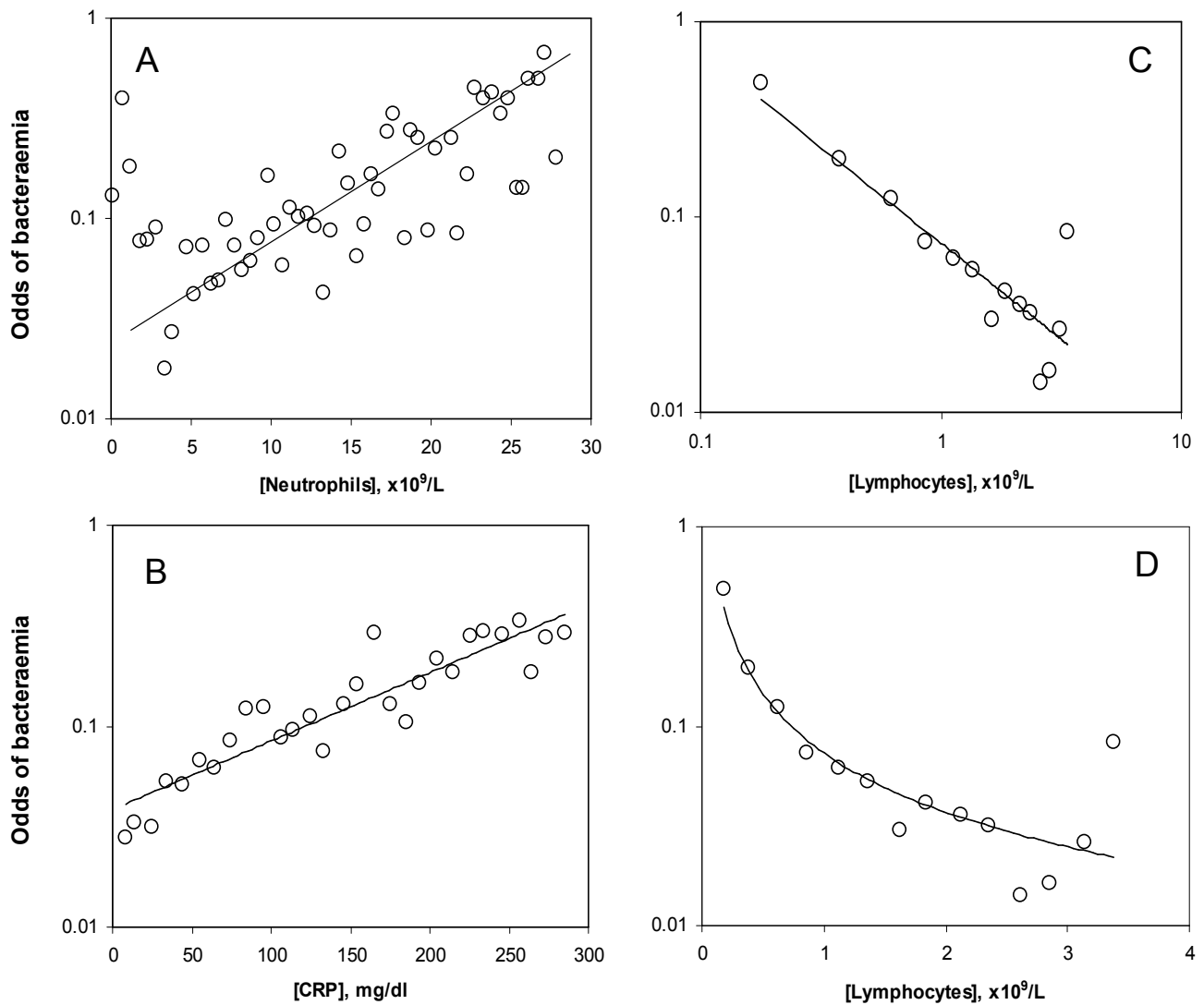
**Figure S1: Flow Diagram of cases**



**Figure S1: Legend**

This is a flow diagram illustrating the cases used in the study.

**Figure S2: Bacteraemia odds by component**



**Figure S2 Legend**

The 6,234 blood cultured cases were analysed in strata, as described in Methods. The odds of bacteraemia are plotted for each stratum, each represented by a single dot on the chart. Lines are least squares regression lines modelling log odds (Y axis) against counts (A-C) or log counts (D). The fit in panel A omits the first two strata, which represent cases with neutrophil counts less than  $1 \times 10^9/L$ . In interpretation of the plots, it may be helpful to remember that for small Odds ( $<0.2$ ), Probability  $\approx$  Odds, since Probability = Odds / (1+Odds).

Inspection of Figure S2 suggests that those cases with neutrophil counts of 1.0-1.49 (the third point) may also have increased risk (Figure 1), but this is not robust since this point is based on only 2 bacteraemic and 11 non bacteraemic cases.

**Table S1: Distribution of CRP, Neutrophil and Lymphocyte counts**

Blood culture	CRP, mg/L	Neutrophil count x 10 <sup>9</sup> /L						Lymphocyte count x 10 <sup>9</sup> /L						
		<1.0	1.0-4.9	5.0-9.9	10.0-14.9	15.0-19.9	>=20.0	0.00-0.24	0.25-0.49	0.50-0.74	0.75-0.99	1.00-1.49	1.50-1.99	>=2.00
Not cultured	Not measured	9	1821	1978	393	79	21	16	125	271	462	1076	936	1415
	<10	11	2631	2642	429	71	13	20	103	362	589	1594	1394	1735
	10-49	5	725	1422	320	62	24	26	120	284	382	775	458	513
	50-99	1	133	440	157	36	20	6	58	125	148	216	132	102
	100-149	3	38	194	100	25	16	13	37	56	71	100	57	42
	150-199	0	11	73	52	22	7	2	21	26	23	50	25	18
	200-249	0	6	32	31	11	4	6	12	12	16	20	7	11
	>=250	1	8	26	27	7	12	2	14	21	10	18	9	7
No Significant bacteraemia	Not measured	5	176	400	171	84	37	24	93	124	149	234	118	131
	<10	11	474	768	185	37	17	21	92	154	210	384	289	342
	10-49	14	412	792	299	77	37	32	166	227	254	416	300	236
	50-99	8	169	494	190	73	25	28	112	158	162	242	143	114
	100-149	6	64	315	190	75	43	22	56	118	140	200	90	67
	150-199	1	27	157	122	45	28	12	43	61	77	109	41	37
	200-249	8	23	87	77	38	29	6	32	45	44	85	28	22
	>=250	1	21	85	120	78	57	17	49	75	62	90	39	30
Significant bacteraemia	Not measured	1	5	32	16	10	11	6	16	22	8	12	7	4
	<10	2	12	16	8	1	0	3	7	7	5	6	3	8
	10-49	0	15	21	11	3	7	8	19	7	5	11	4	3
	50-99	3	10	35	15	7	10	9	10	23	16	15	4	3
	100-149	1	1	27	17	11	8	5	8	21	11	10	3	7
	150-199	0	3	22	17	10	9	8	10	13	12	9	6	3
	200-249	1	4	17	15	9	11	8	11	10	11	14	1	2
	>=250	2	6	25	22	20	21	16	30	22	8	15	3	2

**Table S1: Legend**

This shows the distribution of CRP, lymphocyte and neutrophil counts within the study cohort.

**Table S2: Comparability of derivation and validation sets**

Blood culture	Variable	Derivation	Validation
Negative	CRP, mg/L	76.3	72.9
	Hb g/dl	12.7	12.7
	Lymphocytes x 10 <sup>9</sup> /L	1.29	1.32
	Neutrophils x 10 <sup>9</sup> /L	8.89	8.97
	Platelets x 10 <sup>9</sup> /L	282	284
	Died as inpatients	9.0%	9.0%
	Age	64	65
	Duration of stay	8.45	8.72
Positive	CRP, mg/L	147	140
	Hb g/dl	12.1	12.4
	Lymphocytes x 10 <sup>9</sup> /L	.846	.865
	Neutrophils x 10 <sup>9</sup> /L	11.9	13.5
	Platelets x 10 <sup>9</sup> /L	243	268
	Died as inpatients	21%	21%
	Age	69	67
	Duration of stay	12.6	12.8

**Table S2: Legend**

This compares the properties of cases in derivation and validation sets.