

Table 3: Multinomial logistic regression analysis for patient features and where the patient was first assessed by a LCNS clustered by NHS Trust (n=80,113)

	Where was the patient first assessed (n=80,113)								Adjusted Relative risk ratio†	
	In Clinic n=(49065)	%	In Ward n=(15792)	%	Others (inc tele/home) n=(6939)	%	Missing n=(8317)	%	In Ward vs In Clinic	Other vs In Clinic
Year										
2007	3114	6	1074	7	667	10	1361	16	1†	1†
2008	7111	14	2527	16	788	11	1809	22	1.00 (0.82 - 1.21)	0.49 (0.30 - 0.81)
2009	11216	23	3485	23	1450	21	1325	16	0.95 (0.75 - 1.20)	0.60 (0.36 - 0.99)
2010	13316	27	4074	26	2019	29	1532	18	0.86 (0.70 - 1.06)	0.73 (0.44 - 1.22)
2011	14308	29	4432	28	2015	29	2290	28	0.89 (0.70 - 1.13)	0.68 (0.42 - 1.11)
Sex										
Female	21301	43	7149	45	3136	45	3683	44	1†	1
Male	27764	57	8643	55	3803	55	4634	56	0.91 (0.87 - 0.95)	0.91 (0.87 - 0.96)
Age										
<65	13644	28	3874	25	1969	28	2228	27	1	1
65-75	17071	35	4851	31	2392	34	2804	34	0.85 (0.81 - 0.90)	0.92 (0.86 - 1.00)
>75	18350	37	7067	45	2578	37	3285	39	0.81 (0.75 - 0.87)	0.86 (0.79 - 0.94)
Performance status										
0	10651	22	1060	7	1235	18	1372	16	1†	1
1	17356	35	2911	18	2322	33	2148	26	1.30 (1.12 - 1.49)	1.16 (0.98 - 1.36)
2	9414	19	3418	22	1231	18	1378	17	1.96 (1.67 - 2.29)	1.12 (0.96 - 1.32)
3	5506	11	4730	30	819	12	1199	14	3.36 (2.81 - 4.02)	1.26 (1.04 - 1.52)
4	758	2	1853	12	177	3	310	4	7.22 (5.75 - 9.07)	1.94 (1.42 - 2.64)
Missing	5380	11	1820	12	1155	17	1910	23	1.87 (1.56 - 2.24)	1.66 (1.35 - 2.06)
Stage										
IA-IB	6192	13	681	4	961	14	945	11	1†	1
IIA-IIB	3319	7	478	3	444	6	451	5	1.32 (1.13 - 1.54)	0.86 (0.75 - 1.00)
IIIA	5318	11	885	6	671	10	716	9	1.43 (1.25 - 1.64)	0.81 (0.70 - 0.94)
IIIB	6133	12	1548	10	791	11	850	10	1.97 (1.73 - 2.25)	0.85 (0.73 - 0.98)
IV	16611	34	7896	50	2284	33	2688	32	2.33 (2.04 - 2.67)	0.83 (0.72 - 0.95)
SCLC-Limited	2000	4	413	3	253	4	267	3	2.15 (1.81 - 2.55)	0.83 (0.71 - 0.98)
SCLC-Extensive	3283	7	1609	10	428	6	472	6	2.84 (2.40 - 3.35)	0.80 (0.68 - 0.95)
Stage Unknown	6209	13	2282	14	1107	16	1928	23	2.10 (1.79 - 2.45)	1.00 (0.79 - 1.27)
Charlson Index										
0	18384	37	2668	17	2289	33	2791	34	1†	1
1	10647	22	2381	15	1493	22	1641	20	1.21 (1.12 - 1.30)	1.10 (1.01 - 1.21)
2-3	8940	18	2293	15	1252	18	1407	17	1.18 (1.09 - 1.29)	1.10 (1.00 - 1.20)
4+	11094	23	8450	54	1905	27	2478	30	2.46 (2.27 - 2.66)	1.32 (1.18 - 1.46)
Townsend Quintile										
1 (Most affluent)	7611	16	2258	14	1263	18	1121	13	1	1
2	8972	18	2678	17	1458	21	1398	17	1.00 (0.92 - 1.09)	0.99 (0.89 - 1.11)
3	9696	20	2989	19	1486	21	1499	18	0.99 (0.90 - 1.08)	0.94 (0.83 - 1.07)
4	10462	21	3396	21	1376	20	1744	21	0.96 (0.86 - 1.06)	0.81 (0.69 - 0.95)
5 (Least affluent)	11548	24	4014	25	1244	18	2434	29	0.97 (0.85 - 1.11)	0.67 (0.54 - 0.85)
Missing	776	2	457	3	112	2	121	1	1.30 (1.09 - 1.56)	0.81 (0.63 - 1.05)
Route of Referral										
Referred from GP	29257	60	3272	21	3845	55	4035	49	1†	1
Emergency Admission	3050	6	5073	32	682	10	663	8	8.48 (6.65 - 10.8)	1.52 (1.22 - 1.88)
Referred from Consultant	9961	20	3679	23	1438	21	1475	18	2.51 (2.12 - 2.97)	1.03 (0.89 - 1.19)
Following A&E admission	1991	4	2427	15	382	6	510	6	6.72 (5.50 - 8.20)	1.41 (1.14 - 1.74)

Others	3401	7	945	6	357	5	603	7	2.01 (1.54 - 2.63)	0.74 (0.50 - 1.09)
Missing	1405	3	396	3	235	3	1031	12	2.07 (1.29 - 3.31)	1.32 (0.79 - 2.23)
Treatment										
No treatment	13295	27	8997	57	2017	29	2896	35	1†	1
Surgery	8285	17	769	5	1223	18	1338	16	0.48 (0.42 - 0.57)	1.05 (0.90 - 1.22)
Chemo & radiotherapy	6728	14	1131	7	913	13	854	10	0.47 (0.41 - 0.55)	1.00 (0.83 - 1.19)
Chemo Only	11669	24	2285	14	1466	21	1671	20	0.51 (0.45 - 0.57)	0.90 (0.79 - 1.03)
Radiotherapy only	9088	19	2610	17	1320	19	1558	19	0.64 (0.58 - 0.70)	1.03 (0.92 - 1.14)
Trust Size (Annual)										
<175 pts	19117	39	6840	43	2873	41	1935	23	1†	1
>=175 - <265 pts	15683	32	5307	34	2788	40	2729	33	0.96 (0.76 - 1.21)	1.20 (0.75 - 1.92)
>= 265 pts	14265	29	3645	23	1278	18	3653	44	0.76 (0.58 - 1.00)	0.61 (0.40 - 0.94)
Caseload										
<=150 cases	11557	24	4313	27	1507	22	1296	16	1	1
>150 - <=250 cases	25667	52	7518	48	3899	56	6413	77	0.88 (0.69 - 1.13)	1.09 (0.68 - 1.73)
>250 cases	11841	24	3961	25	1533	22	608	7	1.03 (0.75 - 1.42)	0.90 (0.51 - 1.57)
LCNS dealing with >50% work⁶										
Majority work 7 band	42443	87	13476	85	6148	89	4875	59	1	1
Majority work 6 band	5130	10	1791	11	608	9	2841	34	1.30 (0.87 - 1.94)	0.97 (0.49 - 1.92)
Majority work 8 band	1492	3	525	3	183	3	601	7	1.04 (0.80 - 1.35)	0.80 (0.41 - 1.55)
LCNS Band										
All 7 band	22527	46	7643	48	3330	48	2013	24	1	1
6,7&8 Bands	21097	43	6417	41	3065	44	5229	63	0.90 (0.72 - 1.14)	0.96 (0.61 - 1.53)
7,8 Bands	5441	11	1732	11	544	8	1075	13	0.95 (0.74 - 1.22)	0.69 (0.41 - 1.15)

Baseline group patients assessed in clinic

‡ Relative risk ratio adjusted for Trust/LCNS feature, year and patient features

† Significant p value for trends/likelihood ratio test (p<0.05)

⁶ Not Adjusted for other LCNS Band Variable