

COVID-19 Deaths by LAD with SD Index

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Num	Local Authority District	Death Rate	# Deaths	MDL Rank	EXT Rank	LC Rank
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table 1 : all LADs, top 10

1	Hertsmere	95.00	100	179	254	241
2	Salford	92.60	174	16	22	16
3	Liverpool	81.80	308	4	2	7
4	Watford	79.80	57	200	226	224
5	Birmingham	77.50	624	6	6	21
6	Sandwell	70.10	184	28	10	55
7	Wolverhampton	67.90	162	21	14	47
8	Oldham	66.00	126	27	29	28
9	Walsall	64.70	171	39	20	59
10	Sunderland	62.80	168	42	37	46

table 2 : all LADs, bottom 10

1	Norwich	2.50	3	38	32	73
2	West Lindsey	3.60	4	106	145	113
3	South Hams	4.00	5	200	287	275
4	East Devon	4.80	11	200	273	263
5	Mendip	5.90	8	181	202	203
6	Mid Devon	5.90	6	200	232	230
7	East Lindsey	6.30	13	60	65	52
8	Hastings	6.40	6	13	30	17
9	West Devon	7.30	6	200	285	262
10	South Somerset	7.90	17	175	186	180

table 3 : non-metropolitan, top 10

1	Hertsmere	95.00	100	179	254	241
2	Watford	79.80	57	200	226	224
3	Epping Forest	62.10	86	200	231	231
4	Barrow-in-Furness	58.00	41	29	34	10
5	Reigate and Banstead	56.70	89	200	276	270
6	Harlow	55.10	40	200	148	176
7	South Lakeland	54.00	82	200	302	292
8	Epsom and Ewell	53.60	41	200	264	265
9	Dartford	51.80	43	133	169	158
10	Tamworth	51.60	35	105	129	124

table 4 : non-metropolitan, bottom 10

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table 5 : metropolitan, top 10

1	Salford	92.60	174	16	22	16
2	Liverpool	81.80	308	4	2	7
3	Birmingham	77.50	624	6	6	21
4	Sandwell	70.10	184	28	10	55
5	Wolverhampton	67.90	162	21	14	47
6	Oldham	66.00	126	27	29	28
7	Walsall	64.70	171	39	20	59
8	Sunderland	62.80	168	42	37	46
9	Manchester	59.80	159	5	1	11
10	Rochdale	54.80	100	17	21	19

table 6 : metropolitan, bottom 10

1	Doncaster	19.40	58	37	42	51
2	North Tyneside	20.50	42	120	106	112
3	South Tyneside	27.30	42	34	23	71
4	Calderdale	27.60	53	59	83	58
5	Trafford	31.00	70	155	161	145
6	Kirklees	31.10	120	95	82	95
7	Barnsley	31.80	74	32	39	48
8	Sheffield	33.00	164	26	47	29
9	Leeds	33.80	213	31	58	24
10	Bradford	34.80	142	11	18	18

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Region	# LAD	All Top	All Btm	Met Top	Met Btm	NonM Top	NonM Btm
North East	14	1	0	1	2	0	0
North West	77	3	0	5	1	2	0
Yorkshire and The Humber	39	0	0	0	7	0	0
East Midlands	76	0	2	0	0	0	2
West Midlands	61	4	0	4	0	1	0
East of England	82	2	1	0	0	4	1
London	0	0	0	0	0	0	0
South East	115	0	1	0	0	3	1
South West	46	0	6	0	0	0	6

* London: no datasets available

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at 06:28 on 05/03/2021

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table 5 : metropolitan, top 10

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table 6 : metropolitan, bottom 10

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East Midlands	76	0	2	0	0	0	2
West Midlands	61	4	0	4	0	1	0
East of England	82	2	1	0	0	4	1
London	0	0	0	0	0	0	0
South East	115	0	1	0	0	3	1
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The purpose of the report is to see whether there is any correlation between COVID-19 deaths within a LAD and the LAD's index of social deprivation. The expectation would be that LADs with higher SD indices would also have higher death rates on account of social factors such as poverty, housing, social class etc etc.

The report contains seven tables. Six are of COVID-19 deaths by Local Authority District (LAD) in three groups of two. The last table is a summary of LAD by English region.

The three groups are: All LADs | Non-Metropolitan LADs | Metropolitan LADs

Within each group are two tables: Top ten LADs | Bottom 10 LADs.

The bottom ten LADs are in reverse order, ie.

1 = smallest death rate

10 = tenth smallest death rate

The report fields for the LAD tables are:

Num: Top ten ranking (highest to lowest or lowest to highest)

Local Authority District

Death Rate: per 100,000 within LAD

Deaths: actual number of deaths within LAD

MDL Rank: rank within index of Multiple Deprivation (Proportion of Lower-layer Super Output Areas (LSOAs*) in the most deprived 10% nationally

EXT Rank: rank within index of extent of proportion of a larger areas population living in the most deprived LSOAs in the country.

LC Rank: rank within index of population weighted average of the ranks of a larger area's most deprived LSOAs that contain exactly 10% of the larger area's population.

For all ranks, 1 = highest (out of 228 LADs)

The original data were extracted from public datasets from the UK Office of National Statistics for March 2020.

As such, the data and report are a snapshot of the early stages of the pandemic (and are therefore essentially meaningless), but demonstrate how the process could be developed into a meaningful analysis by, for example, extracting raw data over a period of time.

The data for each summary measure are presented in paired columns of scores and ranks:

The first data column in each pair is the score for the measure.

The higher the score, the more deprived the area.

The second data column is the rank for the measure.

On each measure, the local authority district with a rank of 1 is the most deprived, and the area ranked 326 is the least deprived.

**LSOAs are the smallest unit area within a Local Authority District: there are many LSOAs for each LAD.

===== End of GC0050 =====