Num	Local Authority District	Death Rate #			_	LC Rank
===			======			
tah	le 1 : all LADs, top 10					
1	Hertsmere	95.00	100	179	254	241
	Salford	92.60	174	16	22	16
	Liverpool	81.80	308	4	2	7
	Watford	79.80	57	200	226	224
	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
tab	le 2 : all LADs, bottom 10					
	Norwich	2.50	3	38	32	73
	West Lindsey	3.60	4	106	145	113
3	South Hams	4.00	5	200	287	275
	East Devon	4.80	11	200	273	263
	Mendip	5.90	8	181	202	203
	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
t.ab	le 3 : non-metropolitan, top 10					
1	Hertsmere	95.00	100	179	254	241
2	Watford	79.80	57	200	226	224
_	Epping Forest	62.10	86	200	231	231
	Barrow-in-Furness	58.00	41	29	34	10
	Reigate and Banstead	56.70	89	200	276	270
	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
tab	le 4 : non-metropolitan, bottom 10					
	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
	East Devon	4.80	11	200	273	263
	Mendip	5.90	8	181	202	203
	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
-		-		_		

at 06:28 on 05/03/2021 Page 2 of 4 COVID-19 Deaths by LAD with SD Index

Num	Local Authority District	Death Rate	# Deaths	MDL Rank	EXT Rank	LC Rank
===						
tab	le 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
tab	le 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

OProgram Id: GC0050 at 06:28 on 05/03/2021

CON Region	7ID-19 Deaths by	# LAD	All Top	K All Met	Met No Btm T	on 3 of 4 on M NonM
North East North West Yorkshire and The Humber East Midlands West Midlands East of England London South East South West		14 77 39 76 61 82 0 115 46	2	1 0	5 1 7 0 0 0 0 0 0 0 0 0	0 0 2 0 0 0 0 2 1 0 4 1 0 0 3 1 0 6
* London: no datasets availab	ole					
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Program Id: GC0050	10 p 1		an - 1		28 on 05/0	
Num Local Authority District	/ID-19 Deaths by Death				_	: 1 of 4 LC Rank
table 1 : all LADs, top 10						
1 Hertsmere		95.00	100	179	254	241
2 Salford 3 Liverpool		92.60 81.80	174 308	16 4	22 2	16 7
4 Watford		79.80	57	200	226	224
5 Birmingham 6 Sandwell		77.50 70.10	624 184	6 28	6 10	21 55
7 Wolverhampton		67.90	162	21	14	47
8 Oldham 9 Walsall		66.00 64.70	126 171	27 39	29 20	28 59
10 Sunderland		62.80	168	42	37	46
table 2 . all INDs batter 10						
table 2 : all LADs, bottom 10 1 Norwich	J	2.50	3	38	32	73
2 West Lindsey		3.60	4	106	145	113
3 South Hams 4 East Devon		4.00 4.80	5 11	200 200	287 273	275 263
5 Mendip		5.90	8	181	202	203
6 Mid Devon 7 East Lindsey		5.90 6.30	6 13	200 60	232 65	230 52
8 Hastings		6.40	6	13	30	17
9 West Devon 10 South Somerset		7.30 7.90	6 17	200 175	285 186	262 180
10 South Somerset		7.50	Ι/	175	100	100
table 3 : non-metropolitan, t 1 Hertsmere	top 10	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 5 Reigate and Banstead		58.00 56.70	41 89	29 200	34 276	10 270
6 Harlow		55.10	40	200	148	176
7 South Lakeland 8 Epsom and Ewell		54.00 53.60	82 41	200 200	302 264	292 265
9 Dartford		51.80	43	133	169	158
10 Tamworth		51.60	35	105	129	124
table 4 : non-metropolitan, k	oottom 10					
1 Norwich		2.50	3	38	32	73
<pre>2 West Lindsey 3 South Hams</pre>		3.60 4.00	4 5	106 200	145 287	113 275
4 East Devon		4.80	11	200	273	263

9 10 - -	Mendip Mid Devon East Lindsey Hastings West Devon South Somerset			5.90 5.90 6.30 6.40 7.30 7.90	8 6 13 6 6 17	181 200 60 13 200 175	202 232 65 30 285 186	203 230 52 17 262 180
Pro	gram Id: GC0050	COVID-19	Deaths by	LAD with	SD Index	at 06:2	8 on 05/0 Page	3/2021 2 of 4
	Local Authority Dist				Deaths MD			
tab 1 2 3 4 5 6 7 8 9 10	le 5 : metropolitan, t Salford Liverpool Birmingham Sandwell Wolverhampton Oldham Walsall Sunderland Manchester Rochdale	op 10		92.60 81.80 77.50 70.10 67.90 66.00 64.70 62.80 59.80 54.80	174 308 624 184 162 126 171 168 159 100	16 4 6 28 21 27 39 42 5	22 2 6 10 14 29 20 37 1	16 7 21 55 47 28 59 46 11
1 2 3 4 5	le 6 : metropolitan, b Doncaster North Tyneside South Tyneside Calderdale Trafford Kirklees Barnsley Sheffield Leeds Bradford	ottom 10		19.40 20.50 27.30 27.60 31.00 31.10 31.80 33.00 33.80 34.80	58 42 42 53 70 120 74 164 213 142	37 120 34 59 155 95 32 26 31	42 106 23 83 161 82 39 47 58	51 112 71 58 145 95 48 29 24 18
- - - - - - - - - 0Pro	gram Id: GC0050	COVID-19	Deaths by	LAD with	SD Index	at 06:2	8 on 05/0 Page	3/2021 3 of 4
Reg	ion		- 1	# LAD	All Al Top Bt		Met Non	M NonM p Btm

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* London: no datasets available

Yorkshire and The Humber

North East North West

London South East South West

East Midlands

West Midlands East of England

-

0Program Id: GC0050 at 06:28 on 05/03/2021 COVID-19 Deaths by LAD with SD Index Page 4 of 4

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 ------