

ATLAS OF CAUSE-SPECIFIC PREMATURE MORTALITY (0-74 YEARS) BY DISTRICT IN BELGIUM

2010-2017

Sciensano

Epidemiology and public health
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AUTHORS

Renard F., Scohy A., Jurcevic J.

This atlas about premature mortality (2010-2017) is published in the context of the Health Status Report (HSR) project. The HSR project presents a summary of key health status indicators for the Belgian population on the healthybelgium.be platform. You can find on the website more detailed information about overall mortality, overall mortality by cause, premature mortality, and premature mortality by cause. Other information is also available about life expectancy and quality of life, non-communicable and communicable diseases, mental health, determinants of health, and health inequalities here.

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1. Introduction

1.1. WHAT DOES THIS ATLAS CONTAIN?

This atlas presents maps and data tables of the cause-specific premature mortality rates for the 2010-2017 period.

Premature mortality refers stricto sensu to deaths occurring too early i.e. at any age lower than the life expectancy, defined here as below 75 years old. Since a great part of premature mortality is avoidable by the means of public health actions, reducing premature mortality is a key public health objective. More than all-age mortality, premature mortality reflects the complex interplay of factors interacting with poor health and death. Between-district disparity in premature mortality crucially highlights the room for improvement in given areas of Belgium.

1.2. METHODS

Data

The cause-specific mortality data using the ICD-10 classification is provided by StatBel. Data from several years are pooled together (2003-2009, 2010-2017) to have a sufficient number of observations in each category. We restrict the results to causes of death where the number of deaths was sufficient to avoid large confidence intervals (potential misclassification might not exceed 2 color classes in at least 75% of the districts). Age-standardized rates (European population 2013) are used to take into account possible differences in the age structure of the different districts and to ease comparison among districts.

Figures	Cause of death	ICD-10 codes
2.1.	Breast cancer	C50
2.2.	Colorectal cancer	C18-C20
2.3.	Lung cancer	C33-C34
2.4.	Head, neck and oesophageal cancer	C00-C14 ,C30-C32, C15
2.5.	Ischemic heart disease	I20- I25
2.6.	Diabetes	E10-E14
2.7.	Cerebrovascular diseases and arterial hypertension	I10-I13, I60-I69
2.8.	Chronic liver diseases	K70, K73, K74
2.9.	Chronic obstructive pulmonary diseases	J40-J44
2.10.	Suicide	X60-X84
2.11.	Transport accidents	V01-V99

Maps

For each specific cause of death, maps plot age-standardized premature mortality rates by district. The maps are designed with 13 colours varying from green – for low rates – to brown – for high rates. The cut-off colour (yellow) varies for each map and represents the reference rate, which is the Belgian mortality rate of the particular cause of death represented. This reference colour has the same meaning across all maps, allowing to easily compare the maps. The midpoint of each adjacent colour is separated by a 10% relative difference, e.g. average sex-specific level = 29.1, range around this average = 27.8-30.5; adjacent upper range = 30.5-33.6, adjacent lower range = 25.2-27.8. The more colours presented on the maps, the larger the differences between districts. For more information concerning the methodology behind the maps, you can consult [this paper](#).

Tables

Under the maps, tables with the rates represented on the maps are presented. You can find the number of deaths observed, the age-standardized rates, the 95% confidence interval, and the p-value of the z statistic testing for a difference between the district's rate and the mean rate. 'NS' means that the value

for this district does not significantly differ from Belgium's mean. Districts are ranked from the lowest to the highest rate. The mean rate for Belgium can be found under the table.
Maps and tables are usually shown for both sexes together, except when geographic patterns differed substantially by sex.

1.3. HOW TO READ THESE MAPS?

We present here an example of how to read a map.

Example: Ischemic heart disease premature mortality (2010-2017)

Ischemic Heart Disease (IHD) is one of the main causes of premature death. The analysis by district shows a difference with generally lower rates in Flanders than in Wallonia, Brussels having an intermediate position.

In the period 2010-2017, the average IHD premature mortality rate was 26.0 per 100,000. The average range (24.7-27.2) is represented in yellow and can be observed in Arlon, Roeselare, and Mouscron. During this period, the minimum rate was 20.1 per 100,000 observed in Gent and the maximum was 43.9 observed in Charleroi. A decrease in the rates is observable compared to the 2003-2009 period. Higher rates are observed in the province of Hainaut with Charleroi district being represented by a red-brown color and the rate in Mons and Philippeville laying in the 39.9 to 43.8 per 100,000 range, the second last category. Lower rates were observed in Ghent but also in Turnhout, Maaseik, and Mechelen, with rates situated in the range going from 18.6 to 20.5 per 100,000 and represented with the 4th level of green.

1.4. GENERAL OBSERVATIONS

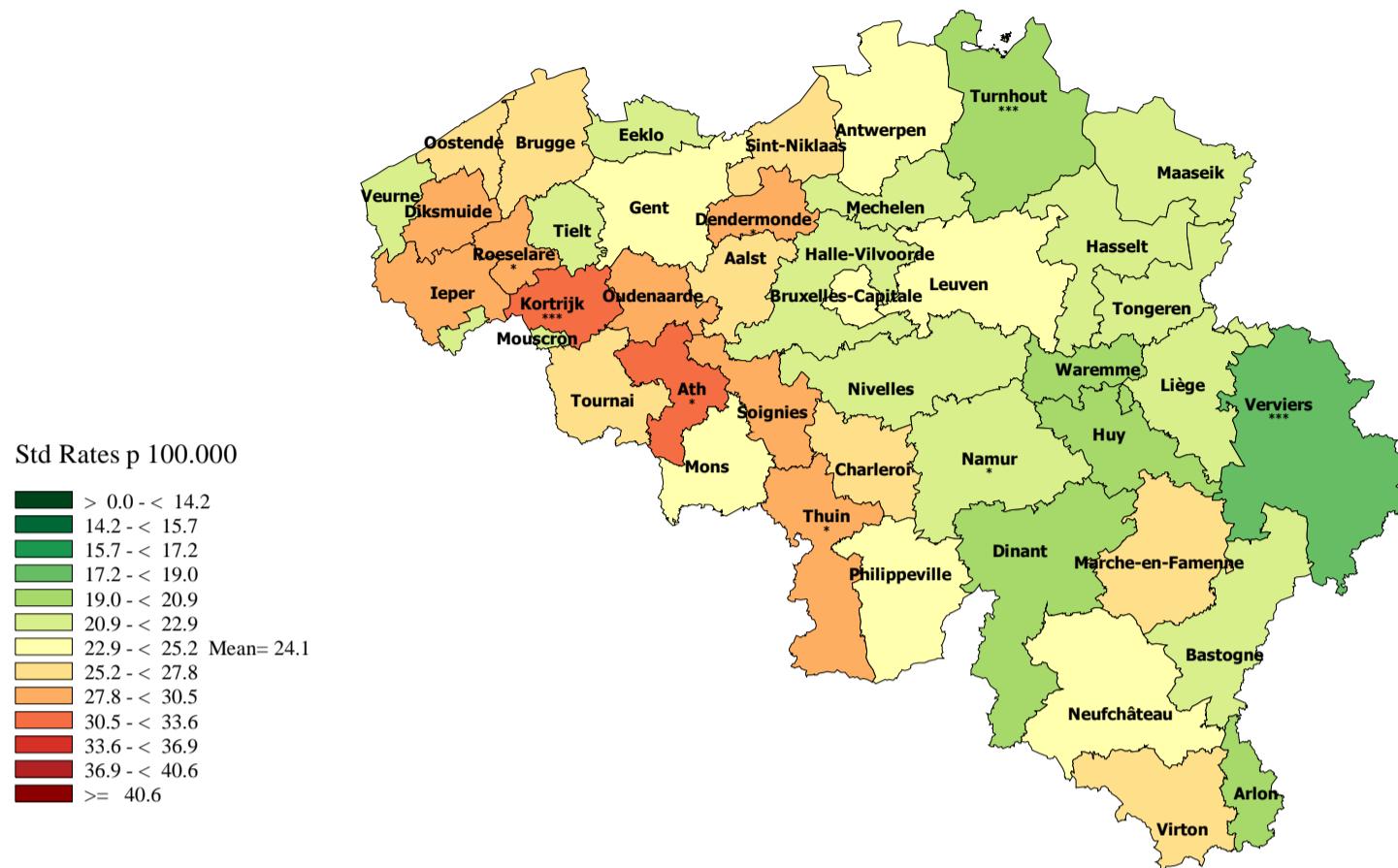
For most causes of death, premature mortality rates are much higher in men than in women. They are usually also lower in Flanders than in Wallonia, with intermediate rates in Brussels (North-South gradient). However, the rates are not homogenous within regions, and some districts can experience mortality rates that diverge from the regional mean. For some causes of death, we do not observe this typical North-South gradient but rather a West-East gradient (French border to Dutch/German border).

When the rates are lower, the relative difference between rates can get higher. Since maps are designed to show relative differences and will show more contrasts when the relative difference is high, a decrease in mortality rates over time will result in more contrasted maps, i.e. the maps of 2003-2009 are less contrasted than the ones of 2010-2017. In addition, premature mortality maps are more contrasted than the all-ages mortality maps since relative differences are more pronounced when the rates are low.

2. Cause-specific premature mortality maps

2.1. BREAST CANCER

Premature Breast Ca Mortality in Women (0-74 yr), Belgium 2010-2017
Age-Adjusted Mortality Rates (Std: Eu pop 2013)



Change from one colour level to another corresponds to a 10% relative change
Range: 18 - 32 per 100.000

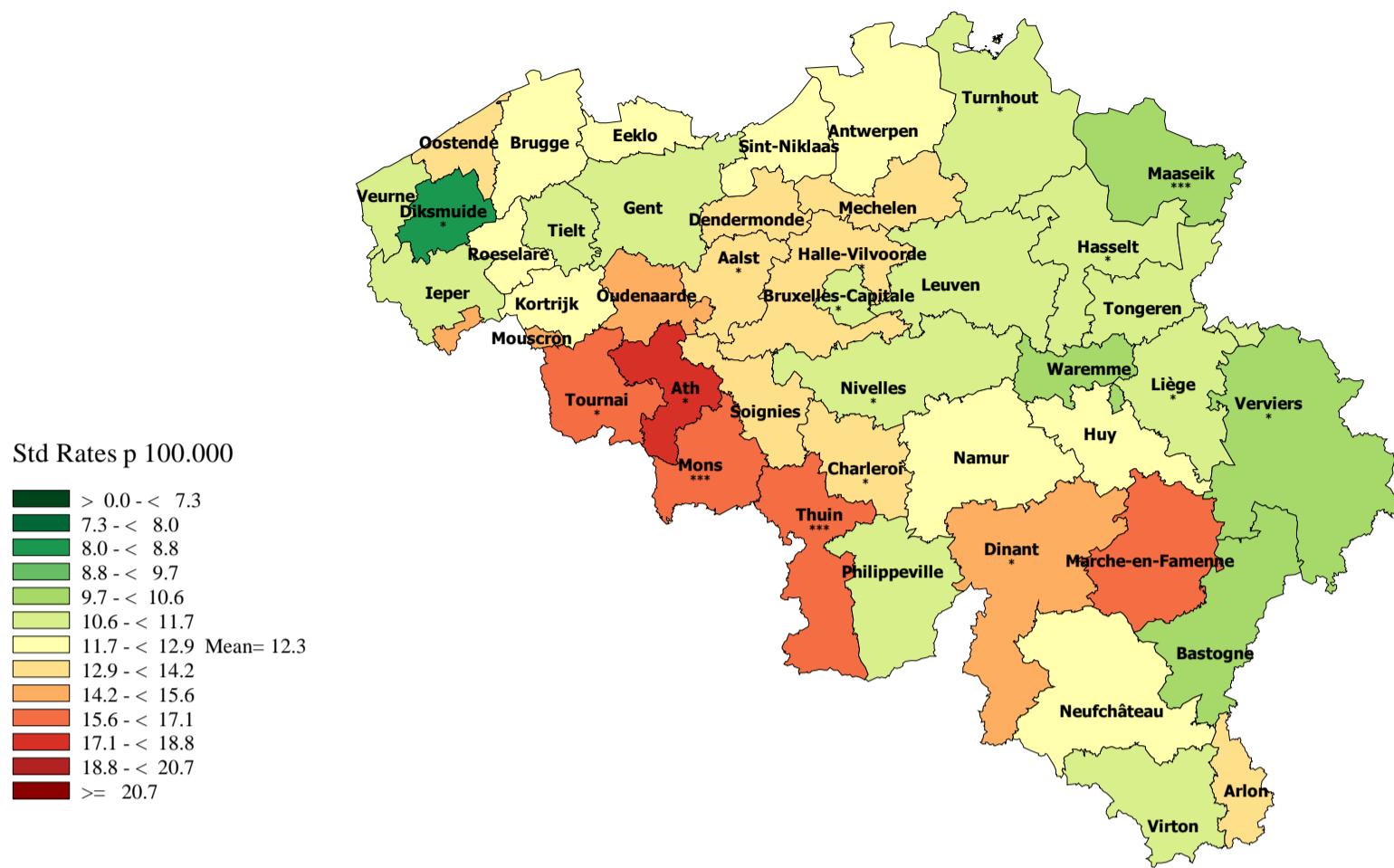
Ranking of the districts by increasing premature mortality rate of Breast Cancer, in Women, 2010-2017

Rank	Sex	Deaths	District	Age-adj. Rates	CI on age-adj. Rates	p value*
1	F	179	Verviers	18.0	[15.4;20.7]	<0.001
2	F	53	Waremme	19.0	[13.9;24.2]	ns.
3	F	36	Arlon	19.7	[13.2;26.1]	ns.
4	F	77	Dinant	19.9	[15.5;24.4]	ns.
5	F	331	Turnhout	20.2	[18.1;22.4]	<0.001
6	F	80	Huy	20.5	[15.9;25.0]	ns.
7	F	225	Namur	20.9	[18.1;23.6]	<0.05
8	F	255	Mechelen	21.4	[18.8;24.0]	ns.
9	F	56	Mouscron	21.6	[15.9;27.3]	ns.
10	F	32	Bastogne	21.8	[14.2;29.5]	ns.
11	F	164	Tongeren	21.9	[18.5;25.2]	ns.
12	F	69	Tielt	22.1	[16.8;27.3]	ns.
13	F	68	Veurne	22.3	[16.9;27.7]	ns.
14	F	489	Liege	22.3	[20.3;24.3]	ns.
15	F	193	Maaseik	22.4	[19.3;25.6]	ns.
16	F	345	Hasselt	22.6	[20.2;25.0]	ns.
17	F	321	Nivelles	22.7	[20.2;25.2]	ns.
18	F	70	Eeklo	22.9	[17.5;28.2]	ns.
19	F	501	Halle-Vilvoorde	22.9	[20.9;24.9]	ns.
20	F	409	Leuven	23.2	[20.9;25.4]	ns.
21	F	46	Neufchateau	23.3	[16.6;30.1]	ns.
22	F	821	Antwerpen	23.5	[21.9;25.1]	ns.
23	F	229	Mons	24.4	[21.2;27.6]	ns.
24	F	808	Brussels	24.5	[22.8;26.2]	ns.
25	F	60	Philippeville	24.6	[18.4;30.9]	ns.
26	F	454	Gent	24.6	[22.4;26.9]	ns.
27	F	43	Virton	25.2	[17.6;32.9]	ns.
28	F	167	Oostende	25.6	[21.7;29.5]	ns.
29	F	388	Charleroi	25.6	[23.1;28.2]	ns.
30	F	269	Aalst	26.2	[23.0;29.3]	ns.
31	F	51	Marche-en-Famenne	26.4	[19.1;33.6]	ns.
32	F	140	Tournai	26.6	[22.2;31.0]	ns.
33	F	302	Brugge	26.7	[23.7;29.8]	ns.
34	F	234	Sint Niklaas	27.0	[23.5;30.4]	ns.
35	F	184	Soignies	27.9	[23.8;31.9]	ns.
36	F	119	Oudenaarde	27.9	[22.9;32.9]	ns.
37	F	202	Dendermonde	28.3	[24.4;32.2]	<0.05
38	F	50	Diksmuide	29.0	[20.9;37.0]	ns.
39	F	110	Ieper	29.3	[23.8;34.8]	ns.
40	F	158	Roeselare	30.2	[25.5;34.9]	<0.05
41	F	169	Thuin	30.5	[25.9;35.1]	<0.01
42	F	94	Ath	31.1	[24.8;37.4]	<0.05
43	F	326	Kortrijk	31.7	[28.3;35.2]	<0.001

* p value of the z statistic testing for a the difference between the district's rate and the mean rate
Age-standardized rate in Belgium = 24.1

2.2. COLORECTAL CANCER

Premature Colorectal Ca Mortality in both genders (0-74 yr), Belgium 2010-2017 Age-Adjusted Mortality Rates (Std: Eu pop 2013)



Change from one colour level to another corresponds to a 10% relative change
Range: 9 - 18 per 100.000

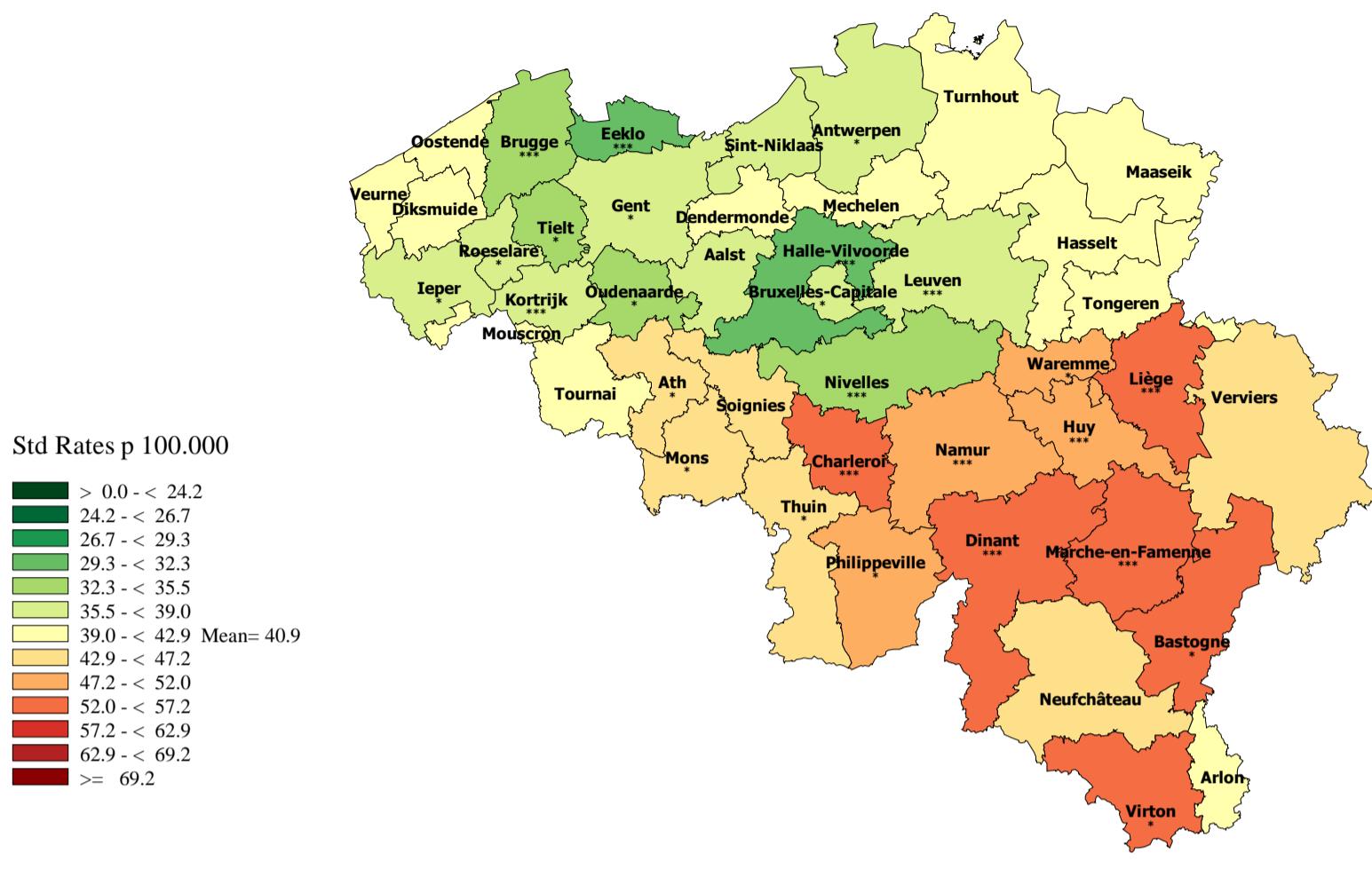
Ranking of the districts by increasing premature mortality rate of Colorectal Cancer, in Both genders, 2010-2017

Rank	Sex	Deaths	District	Age-adj. Rates	CI on age-adj. Rates	p value*
1	Both	30	Diksmuide	8.8	[5.6;11.9]	<0.05
2	Both	163	Maaseik	9.7	[8.2;11.2]	<0.001
3	Both	27	Bastogne	9.8	[6.1;13.6]	ns.
4	Both	192	Verviers	10.1	[8.6;11.5]	<0.01
5	Both	54	Waremme	10.6	[7.8;13.5]	ns.
6	Both	344	Turnhout	10.9	[9.7;12.0]	<0.05
7	Both	283	Nivelles	10.9	[9.6;12.2]	<0.05
8	Both	321	Hasselt	10.9	[9.7;12.1]	<0.05
9	Both	67	Veurne	11.1	[8.4;13.8]	ns.
10	Both	82	Ieper	11.1	[8.7;13.5]	ns.
11	Both	378	Leuven	11.1	[10.0;12.3]	ns.
12	Both	454	Liège	11.2	[10.1;12.2]	<0.05
13	Both	395	Gent	11.2	[10.1;12.3]	ns.
14	Both	669	Brussels	11.3	[10.4;12.1]	<0.05
15	Both	69	Tielt	11.3	[8.6;14.0]	ns.
16	Both	34	Virton	11.3	[7.5;15.2]	ns.
17	Both	53	Philippeville	11.3	[8.3;14.4]	ns.
18	Both	171	Tongeren	11.6	[9.9;13.4]	ns.
19	Both	265	Brugge	11.9	[10.5;13.3]	ns.
20	Both	800	Antwerpen	12.0	[11.1;12.8]	ns.
21	Both	239	Namur	12.0	[10.5;13.6]	ns.
22	Both	124	Roeselare	12.0	[9.9;14.2]	ns.
23	Both	73	Eeklo	12.0	[9.3;14.8]	ns.
24	Both	206	Sint Niklaas	12.1	[10.5;13.8]	ns.
25	Both	46	Neufchâteau	12.3	[8.7;15.9]	ns.
26	Both	91	Huy	12.5	[9.9;15.1]	ns.
27	Both	253	Kortrijk	12.6	[11.1;14.2]	ns.
28	Both	295	Mechelen	12.9	[11.4;14.4]	ns.
29	Both	165	Soignies	13.3	[11.3;15.4]	ns.
30	Both	46	Arlon	13.6	[9.6;17.5]	ns.
31	Both	179	Oostende	13.6	[11.6;15.6]	ns.
32	Both	193	Dendermonde	13.9	[11.9;15.8]	ns.
33	Both	275	Aalst	14.0	[12.3;15.7]	<0.05
34	Both	393	Charleroi	14.1	[12.7;15.5]	<0.05
35	Both	577	Halle-Vilvoorde	14.1	[13.0;15.3]	<0.01
36	Both	70	Mouscron	14.4	[11.0;17.8]	ns.
37	Both	122	Oudenaarde	14.9	[12.2;17.5]	ns.
38	Both	112	Dinant	15.4	[12.5;18.3]	<0.05
39	Both	154	Tournai	15.8	[13.3;18.3]	<0.01
40	Both	58	Marche-en-Famenne	15.8	[11.7;20.0]	ns.
41	Both	271	Mons	16.4	[14.4;18.3]	<0.001
42	Both	171	Thuin	16.6	[14.1;19.1]	<0.001
43	Both	99	Ath	17.7	[14.2;21.2]	<0.01

* p value of the z statistic testing for a the difference between the district's rate and the mean rate
Age-standardized rate in Belgium = 12.3

2.3. LUNG CANCER

Premature Lung Ca Mortality in both genders (0-74 yr), Belgium 2010-2017 Age-Adjusted Mortality Rates (Std: Eu pop 2013)

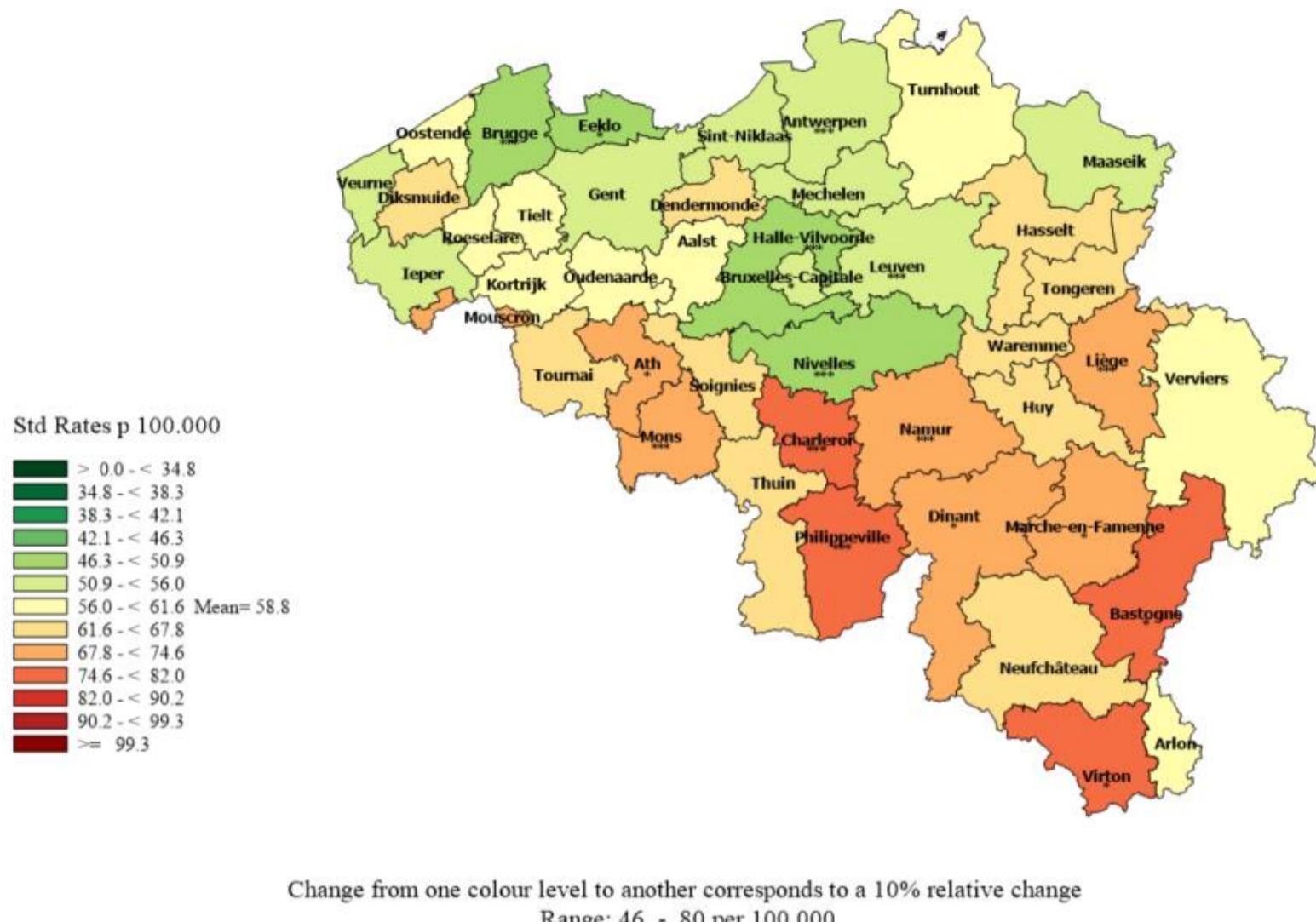


Ranking of the districts by increasing premature mortality rate of Lung Cancer, in Both genders, 2010-2017

Rank	Sex	Deaths	District	Age-adj. Rates	CI on age-adj. Rates	p value*
1	Both	190	Eeklo	31.4	[27.0;35.9]	<0.001
2	Both	1306	Halle-Vilvoorde	31.7	[29.9;33.4]	<0.001
3	Both	736	Brugge	32.7	[30.4;35.1]	<0.001
4	Both	921	Nivelles	34.5	[32.2;36.7]	<0.001
5	Both	214	Tielt	34.5	[29.9;39.2]	<0.01
6	Both	291	Oudenaarde	35.2	[31.1;39.3]	<0.01
7	Both	726	Kortrijk	36.0	[33.4;38.6]	<0.001
8	Both	1237	Leuven	36.3	[34.3;38.3]	<0.001
9	Both	273	Ieper	36.5	[32.2;40.9]	<0.05
10	Both	382	Roeselare	36.9	[33.2;40.7]	<0.05
11	Both	1345	Gent	38.0	[35.9;40.0]	<0.01
12	Both	644	Sint Niklaas	38.2	[35.2;41.2]	ns.
13	Both	2268	Brussels	38.3	[36.7;39.9]	<0.01
14	Both	2590	Antwerpen	38.5	[37.0;39.9]	<0.01
15	Both	768	Aalst	38.7	[36.0;41.5]	ns.
16	Both	895	Mechelen	39.1	[36.6;41.7]	ns.
17	Both	403	Tournai	39.7	[35.8;43.6]	ns.
18	Both	671	Maaseik	39.8	[36.7;42.8]	ns.
19	Both	238	Veurne	39.8	[34.6;44.9]	ns.
20	Both	525	Oostende	39.8	[36.4;43.2]	ns.
21	Both	138	Arlon	40.0	[33.2;46.7]	ns.
22	Both	1329	Turnhout	41.6	[39.4;43.9]	ns.
23	Both	584	Dendermonde	41.6	[38.2;45.0]	ns.
24	Both	144	Diksmuide	41.8	[34.9;48.6]	ns.
25	Both	1249	Hasselt	42.4	[40.0;44.8]	ns.
26	Both	213	Mouscron	42.7	[36.9;48.5]	ns.
27	Both	633	Tongeren	42.9	[39.5;46.2]	ns.
28	Both	822	Verviers	43.0	[40.0;45.9]	ns.
29	Both	544	Soignies	43.3	[39.6;47.0]	ns.
30	Both	174	Neufchateau	44.1	[37.5;50.7]	ns.
31	Both	483	Thuin	45.3	[41.2;49.4]	<0.05
32	Both	791	Mons	46.1	[42.8;49.3]	<0.01
33	Both	272	Ath	47.0	[41.3;52.6]	<0.05
34	Both	252	Waremme	48.0	[42.0;53.9]	<0.05
35	Both	978	Namur	48.4	[45.3;51.5]	<0.001
36	Both	237	Philippeville	49.4	[43.1;55.8]	<0.01
37	Both	378	Huy	50.8	[45.6;56.0]	<0.001
38	Both	392	Dinant	52.4	[47.1;57.6]	<0.001
39	Both	171	Virton	52.6	[44.6;60.6]	<0.01
40	Both	149	Bastogne	53.4	[44.7;62.1]	<0.01
41	Both	1547	Charleroi	53.8	[51.1;56.5]	<0.001
42	Both	2295	Liege	55.2	[52.9;57.4]	<0.001
43	Both	216	Marche-en-Famenne	56.9	[49.2;64.6]	<0.001

* p value of the z statistic testing for a the difference between the district's rate and the mean rate
Age-standardized rate in Belgium = 40.9

Premature Lung Ca Mortality in Men (0-74 yr), Belgium 2010-2017
 Age-Adjusted Mortality Rates (Std: Eu pop 2013)

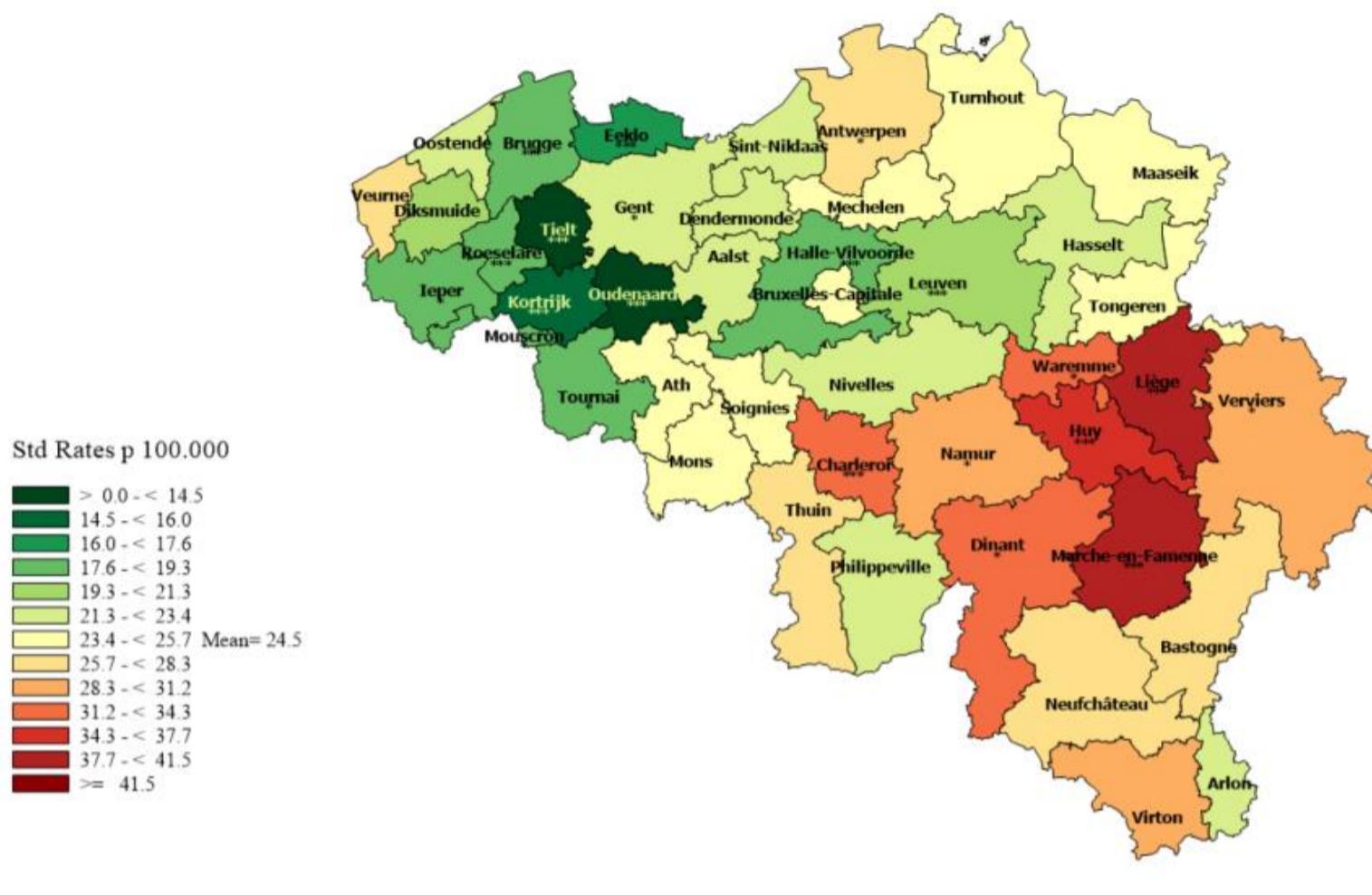


Ranking of the districts by increasing premature mortality rate of Lung Cancer, in Men, 2010-2017

Rank	Sex	Deaths	District	Age-adj. Rates	CI on age-adj. Rates	p value*
1	M	906	Halle-Vilvoorde	46.4	[43.3;49.4]	<0.001
2	M	141	Eeklo	47.2	[39.4;55.0]	<0.01
3	M	522	Brugge	47.8	[43.7;51.9]	<0.001
4	M	603	Nivelles	48.0	[44.1;51.8]	<0.001
5	M	1672	Antwerpen	51.3	[48.8;53.8]	<0.001
6	M	156	Veurne	52.1	[43.8;60.4]	ns.
7	M	872	Leuven	52.6	[49.1;56.1]	<0.001
8	M	444	Sint Niklaas	54.0	[49.0;59.0]	ns.
9	M	1477	Brussels	54.3	[51.5;57.1]	<0.01
10	M	461	Maaseik	54.6	[49.5;59.6]	ns.
11	M	203	Ieper	55.2	[47.6;62.8]	ns.
12	M	614	Mechelen	55.4	[51.0;59.8]	ns.
13	M	949	Gent	55.8	[52.2;59.3]	ns.
14	M	289	Roeselare	56.9	[50.4;63.5]	ns.
15	M	543	Aalst	57.1	[52.3;62.0]	ns.
16	M	371	Oostende	57.6	[51.7;63.4]	ns.
17	M	918	Turnhout	57.6	[53.8;61.3]	ns.
18	M	566	Kortrijk	57.9	[53.1;62.6]	ns.
19	M	233	Oudenaarde	58.5	[50.9;66.1]	ns.
20	M	541	Verviers	58.5	[53.6;63.5]	ns.
21	M	180	Tielt	58.6	[50.0;67.2]	ns.
22	M	98	Arlon	59.9	[47.8;71.9]	ns.
23	M	119	Neufchateau	62.0	[50.7;73.3]	ns.
24	M	303	Tournai	62.1	[55.0;69.2]	ns.
25	M	452	Tongeren	62.2	[56.4;67.9]	ns.
26	M	894	Hasselt	62.6	[58.4;66.7]	ns.
27	M	431	Dendermonde	62.8	[56.9;68.8]	ns.
28	M	109	Diksmuide	63.7	[51.7;75.7]	ns.
29	M	386	Soignies	65.1	[58.5;71.7]	ns.
30	M	329	Thuin	65.2	[58.0;72.4]	ns.
31	M	163	Waregem	65.3	[55.1;75.5]	ns.
32	M	236	Huy	66.2	[57.6;74.8]	ns.
33	M	163	Mouscron	69.4	[58.6;80.1]	ns.
34	M	665	Namur	70.2	[64.8;75.6]	<0.001
35	M	194	Ath	71.5	[61.3;81.8]	<0.05
36	M	566	Mons	72.2	[66.1;78.3]	<0.001
37	M	1421	Liege	73.1	[69.2;76.9]	<0.001
38	M	264	Dinant	73.3	[64.4;82.3]	<0.01
39	M	138	Marche-en-Famenne	74.4	[61.8;87.0]	<0.05
40	M	123	Virton	77.7	[63.7;91.7]	<0.01
41	M	1044	Charleroi	78.7	[73.8;83.5]	<0.001
42	M	184	Philippeville	79.2	[67.6;90.8]	<0.001
43	M	109	Bastogne	80.4	[65.1;95.8]	<0.01

* p value of the z statistic testing for a the difference between the district's rate and the mean rate
 Age-standardized rate in Belgium = 58.8

Premature Lung Ca Mortality in Women (0-74 yr), Belgium 2010-2017
Age-Adjusted Mortality Rates (Std: Eu pop 2013)



Change from one colour level to another corresponds to a 10% relative change
Range: 11 - 40 per 100.000

Ranking of the districts by increasing premature mortality rate of Lung Cancer, in Women, 2010-2017

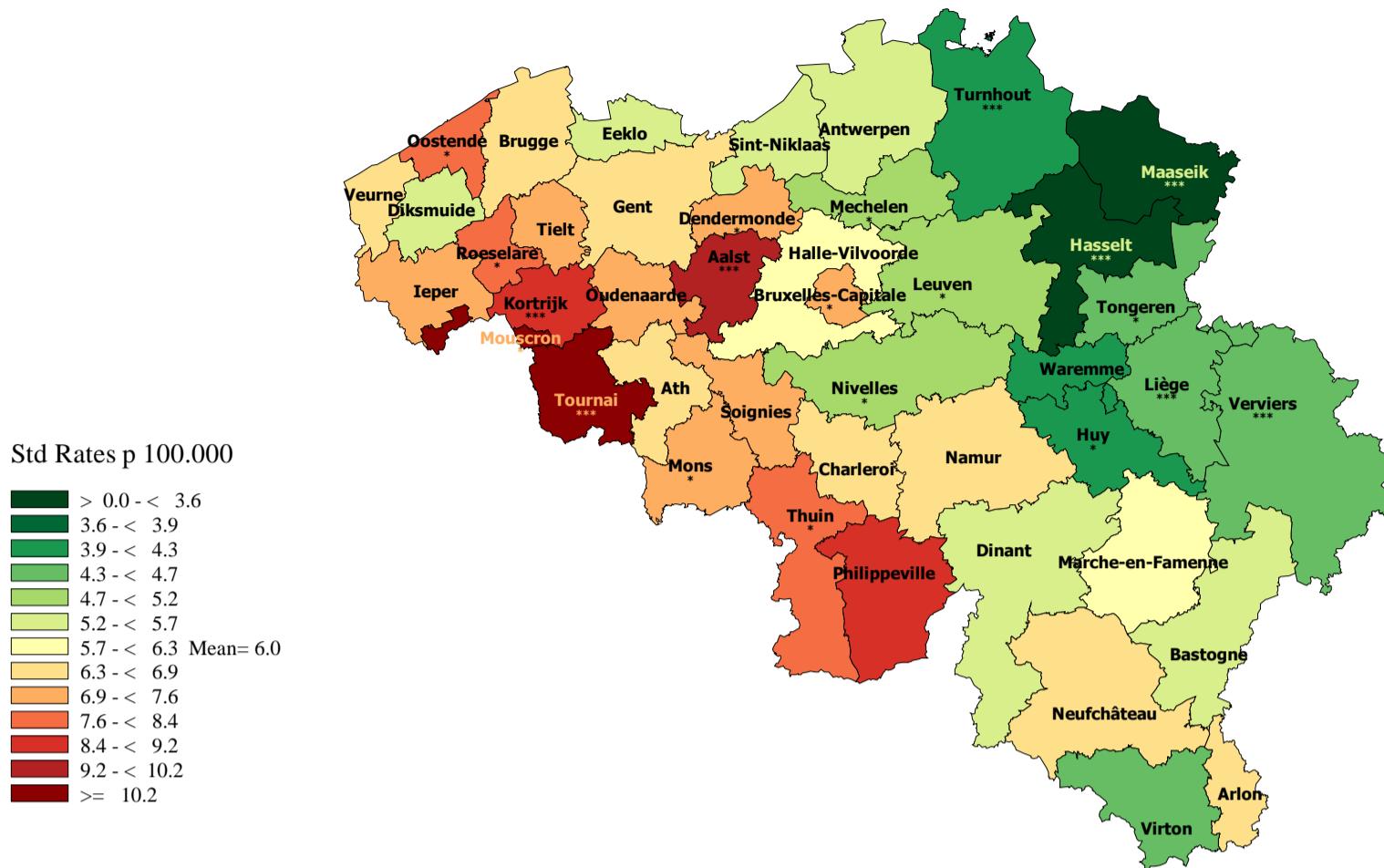
Rank	Sex	Deaths	District	Age-adj. Rates	CI on age-adj. Rates	p value*
1	F	34	Tiel	10.8	[7.2;14.5]	<0.001
2	F	58	Oudenaarde	13.4	[9.9;16.8]	<0.001
3	F	160	Kortrijk	15.4	[13.1;17.8]	<0.001
4	F	49	Eeklo	16.1	[11.6;20.6]	<0.001
5	F	93	Roeselare	17.8	[14.1;21.4]	<0.001
6	F	400	Halle-Vilvoorde	18.3	[16.5;20.1]	<0.001
7	F	70	Ieper	18.5	[14.2;22.8]	<0.01
8	F	214	Brugge	18.5	[16.1;21.0]	<0.001
9	F	50	Mouscron	18.9	[13.6;24.2]	<0.05
10	F	100	Tournai	19.1	[15.4;22.9]	<0.01
11	F	35	Diksmuide	20.0	[13.4;26.7]	ns.
12	F	365	Leuven	20.8	[18.6;22.9]	<0.001
13	F	153	Dendermonde	21.3	[17.9;24.7]	ns.
14	F	53	Philippeville	21.5	[15.7;27.3]	ns.
15	F	396	Gent	21.5	[19.4;23.6]	<0.01
16	F	225	Aalst	21.8	[19.0;24.7]	ns.
17	F	40	Arlon	22.0	[15.1;28.9]	ns.
18	F	318	Nivelles	22.5	[20.0;25.0]	ns.
19	F	154	Oostende	23.0	[19.3;26.6]	ns.
20	F	200	Sint Niklaas	23.2	[20.0;26.4]	ns.
21	F	355	Hasselt	23.2	[20.8;25.7]	ns.
22	F	281	Mechelen	23.8	[21.0;26.5]	ns.
23	F	158	Soignies	23.8	[20.1;27.6]	ns.
24	F	181	Tongeren	24.0	[20.5;27.5]	ns.
25	F	225	Mons	24.2	[21.0;27.3]	ns.
26	F	791	Brussels	24.8	[23.0;26.5]	ns.
27	F	210	Maaseik	24.8	[21.4;28.2]	ns.
28	F	78	Ath	25.3	[19.7;30.9]	ns.
29	F	411	Turnhout	25.5	[23.1;28.0]	ns.
30	F	918	Antwerpen	26.5	[24.8;28.2]	<0.05
31	F	55	Neufchateau	26.8	[19.7;34.0]	ns.
32	F	154	Thuin	27.6	[23.2;32.0]	ns.
33	F	40	Bastogne	27.7	[19.1;36.4]	ns.
34	F	82	Veurne	28.2	[21.9;34.4]	ns.
35	F	281	Verviers	28.5	[25.1;31.8]	<0.05
36	F	48	Virton	29.0	[20.7;37.2]	ns.
37	F	313	Namur	29.1	[25.8;32.3]	<0.01
38	F	89	Waremme	32.2	[25.5;39.0]	<0.05
39	F	503	Charleroi	32.5	[29.6;35.3]	<0.001
40	F	128	Dinant	33.0	[27.3;38.7]	<0.01
41	F	142	Huy	36.5	[30.5;42.6]	<0.001
42	F	874	Liège	39.6	[37.0;42.2]	<0.001
43	F	78	Marche-en-Famenne	40.1	[31.1;49.0]	<0.001

* p value of the z statistic testing for a the difference between the district's rate and the mean rate

Age-standardized rate in Belgium = 24.5

2.4. HEAD,NECK AND OESOPHAGEAL CANCER

Premature Head and neck Ca Mortality in both genders (0-74 yr), Belgium 2010-2017 Age-Adjusted Mortality Rates (Std: Eu pop 2013)



Change from one colour level to another corresponds to a 10% relative change
Range: 2 - 11 per 100.000

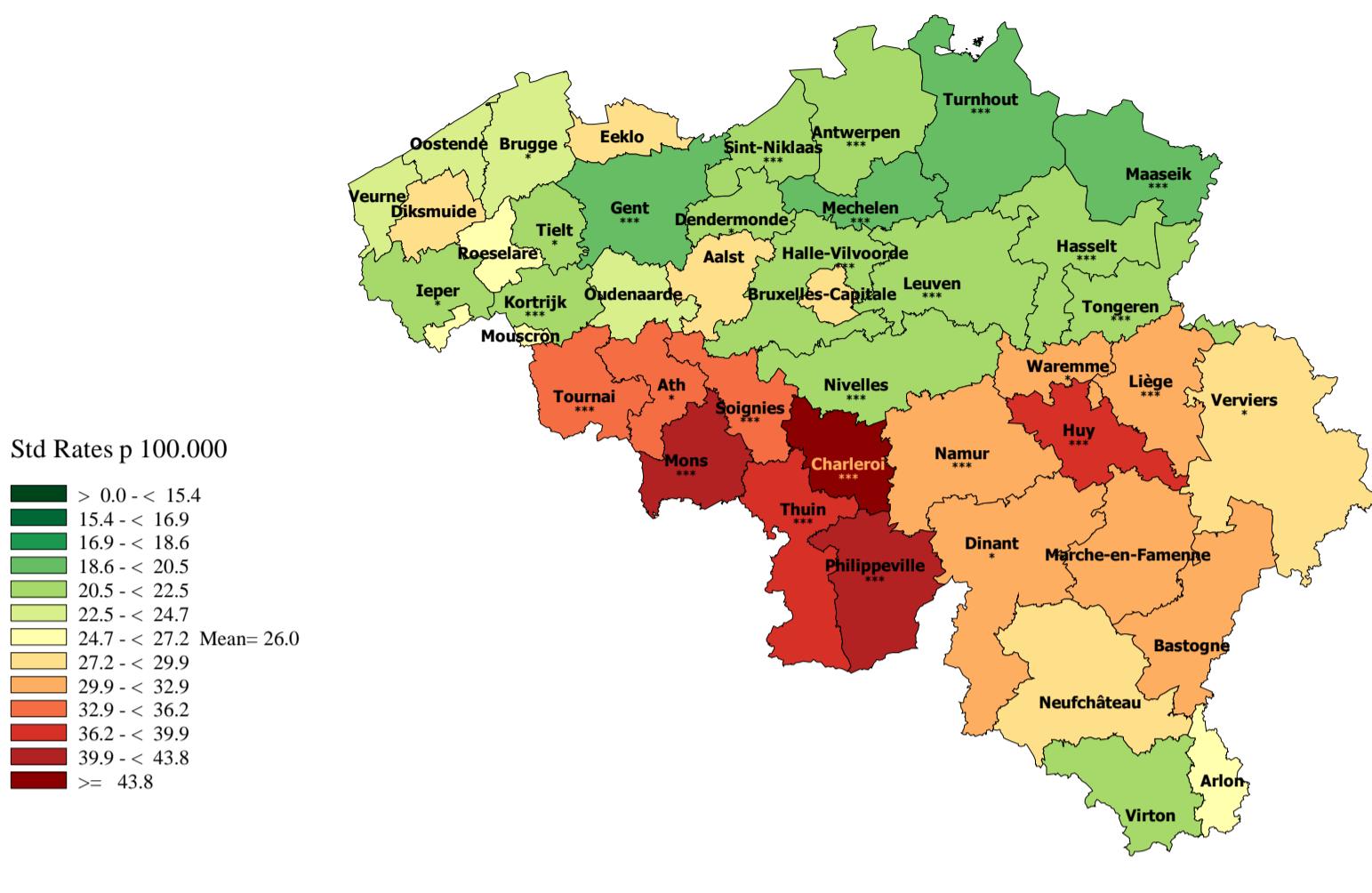
Ranking of the districts by increasing premature mortality rate of Head and neck & Oesophageal Cancer, in Both genders, 2010-2017

Rank	Sex	Deaths	District	Age-adj. Rates	CI on age-adj. Rates	p value*
1	Both	39	Maaseik	2.2	[1.5; 3.0]	<0.001
2	Both	101	Hasselt	3.3	[2.7; 4.0]	<0.001
3	Both	31	Huy	4.0	[2.6; 5.4]	<0.01
4	Both	137	Turnhout	4.1	[3.4; 4.8]	<0.001
5	Both	23	Waremme	4.3	[2.5; 6.0]	ns.
6	Both	186	Liege	4.4	[3.7; 5.0]	<0.001
7	Both	89	Verviers	4.4	[3.5; 5.3]	<0.001
8	Both	16	Virton	4.5	[2.3; 6.7]	ns.
9	Both	68	Tongeren	4.6	[3.5; 5.7]	<0.05
10	Both	133	Nivelles	4.9	[4.0; 5.7]	<0.01
11	Both	114	Mechelen	4.9	[4.0; 5.8]	<0.05
12	Both	179	Leuven	5.1	[4.4; 5.9]	<0.05
13	Both	91	Sint Niklaas	5.3	[4.2; 6.4]	ns.
14	Both	33	Eeklo	5.4	[3.5; 7.2]	ns.
15	Both	16	Bastogne	5.4	[2.7; 8.1]	ns.
16	Both	378	Antwerpen	5.5	[5.0; 6.1]	ns.
17	Both	44	Dinant	5.6	[3.9; 7.2]	ns.
18	Both	20	Diksmuide	5.6	[3.2; 8.1]	ns.
19	Both	251	Halle-Vilvoorde	6.0	[5.2; 6.7]	ns.
20	Both	23	Marche-en-Famenne	6.0	[3.5; 8.5]	ns.
21	Both	132	Namur	6.4	[5.3; 7.5]	ns.
22	Both	26	Neufchateau	6.4	[3.9; 8.9]	ns.
23	Both	196	Charleroi	6.6	[5.6; 7.5]	ns.
24	Both	154	Brugge	6.8	[5.7; 7.9]	ns.
25	Both	25	Arlon	6.8	[4.1; 9.5]	ns.
26	Both	249	Gent	6.9	[6.0; 7.7]	ns.
27	Both	41	Ath	6.9	[4.8; 9.0]	ns.
28	Both	42	Veurne	6.9	[4.8; 9.1]	ns.
29	Both	421	Brussels	7.0	[6.3; 7.7]	<0.01
30	Both	61	Oudenaarde	7.1	[5.3; 8.8]	ns.
31	Both	91	Soignies	7.1	[5.6; 8.5]	ns.
32	Both	57	Ieper	7.4	[5.5; 9.4]	ns.
33	Both	47	Tielt	7.5	[5.3; 9.6]	ns.
34	Both	133	Mons	7.5	[6.2; 8.8]	<0.05
35	Both	108	Dendermonde	7.5	[6.1; 9.0]	<0.05
36	Both	103	Oostende	7.9	[6.3; 9.4]	<0.05
37	Both	87	Thuin	7.9	[6.2; 9.6]	<0.05
38	Both	83	Roeselare	8.0	[6.2; 9.7]	<0.05
39	Both	41	Philippeville	8.5	[5.9; 11.1]	ns.
40	Both	183	Kortrijk	8.9	[7.6; 10.2]	<0.001
41	Both	191	Aalst	9.3	[8.0; 10.6]	<0.001
42	Both	54	Mouscron	10.6	[7.8; 13.4]	<0.01
43	Both	112	Tournai	10.8	[8.7; 12.8]	<0.001

* p value of the z statistic testing for a the difference between the district's rate and the mean rate
Age-standardized rate in Belgium = 6.0

2.5. ISCHEMIC HEART DISEASES

Premature Isch_Heart_Disease Mortality in both genders (0-74 yr), Belgium 2010-2017 Age-Adjusted Mortality Rates (Std: Eu pop 2013)



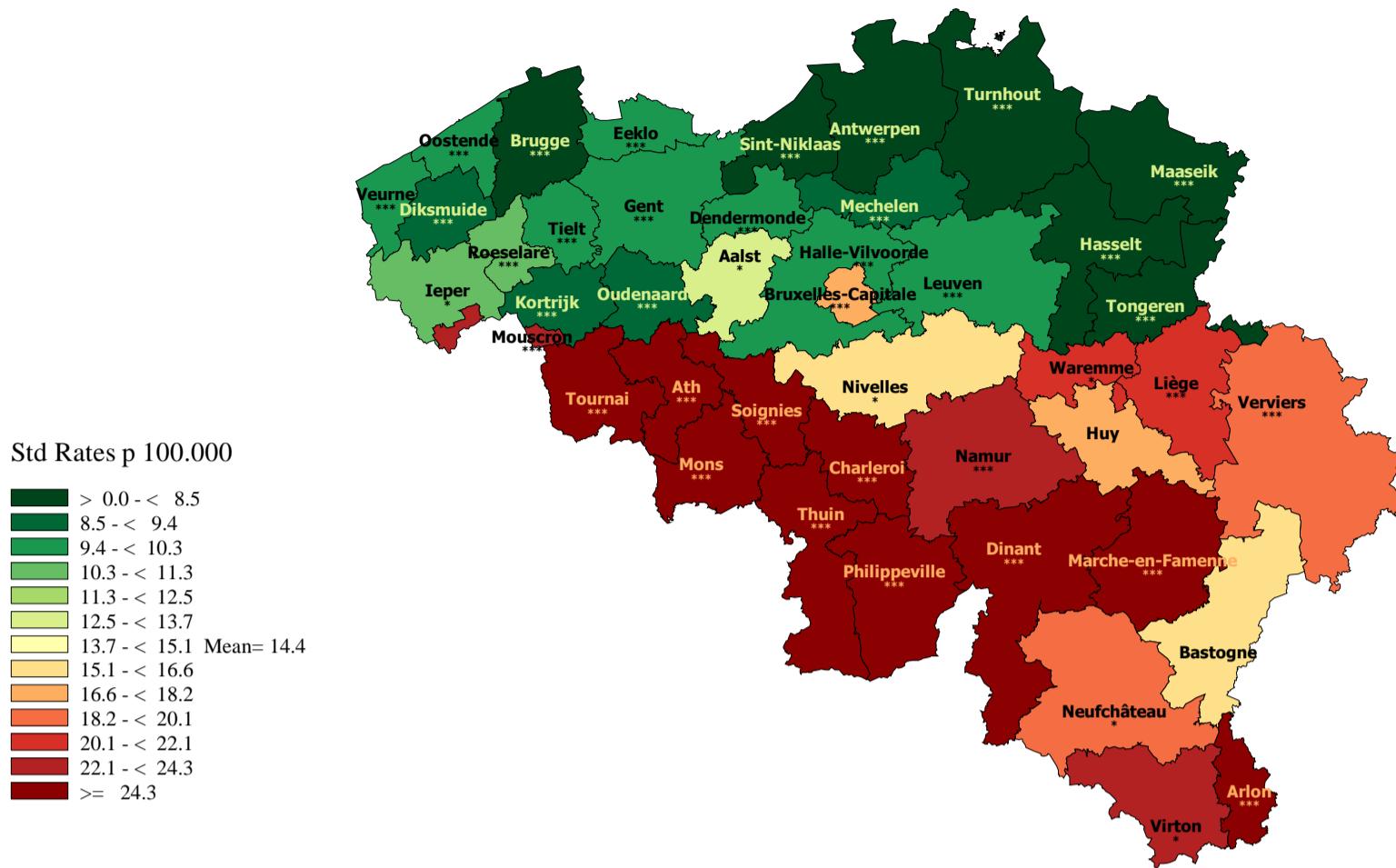
Ranking of the districts by increasing premature mortality rate of Ischemic Heart Disease, in Both genders, 2010-2017

Rank	Sex	Deaths	District	Age-adj. Rates	CI on age-adj. Rates	p value*
1	Both	706	Gent	20.1	[18.6;21.6]	<0.001
2	Both	634	Turnhout	20.1	[18.6;21.7]	<0.001
3	Both	343	Maaseik	20.3	[18.2;22.5]	<0.001
4	Both	465	Mechelen	20.5	[18.6;22.3]	<0.001
5	Both	349	Sint Niklaas	20.8	[18.6;22.9]	<0.001
6	Both	129	Tielt	21.0	[17.3;24.6]	<0.01
7	Both	627	Hasselt	21.5	[19.8;23.2]	<0.001
8	Both	311	Tongeren	21.6	[19.2;24.0]	<0.001
9	Both	881	Halle-Vilvoorde	21.7	[20.2;23.1]	<0.001
10	Both	734	Leuven	21.8	[20.2;23.4]	<0.001
11	Both	1461	Antwerpen	21.9	[20.7;23.0]	<0.001
12	Both	70	Virton	22.1	[16.8;27.3]	ns.
13	Both	307	Dendermonde	22.1	[19.6;24.6]	<0.01
14	Both	165	Ieper	22.2	[18.8;25.6]	<0.05
15	Both	444	Kortrijk	22.2	[20.1;24.3]	<0.001
16	Both	583	Nivelles	22.3	[20.5;24.1]	<0.001
17	Both	509	Brugge	22.9	[20.9;24.8]	<0.01
18	Both	307	Oostende	23.4	[20.8;26.0]	ns.
19	Both	145	Veurne	24.2	[20.2;28.2]	ns.
20	Both	200	Oudenaarde	24.6	[21.2;28.1]	ns.
21	Both	85	Arlon	24.8	[19.5;30.2]	ns.
22	Both	257	Roeselare	25.0	[21.9;28.0]	ns.
23	Both	125	Mouscron	25.7	[21.1;30.2]	ns.
24	Both	1584	Brussels	27.3	[25.9;28.7]	ns.
25	Both	539	Aalst	27.4	[25.1;29.7]	ns.
26	Both	107	Neufchâteau	27.5	[22.2;32.7]	ns.
27	Both	167	Eeklo	27.7	[23.5;31.9]	ns.
28	Both	546	Verviers	28.5	[26.1;30.9]	<0.05
29	Both	99	Diksmuide	28.6	[23.0;34.3]	ns.
30	Both	82	Bastogne	30.0	[23.4;36.6]	ns.
31	Both	111	Marche-en-Famenne	30.4	[24.7;36.1]	ns.
32	Both	620	Namur	31.0	[28.6;33.5]	<0.001
33	Both	242	Dinant	32.3	[28.2;36.5]	<0.01
34	Both	1327	Liège	32.4	[30.6;34.1]	<0.001
35	Both	167	Waregem	32.5	[27.5;37.5]	<0.05
36	Both	188	Ath	33.5	[28.6;38.3]	<0.01
37	Both	328	Tournai	33.7	[30.0;37.4]	<0.001
38	Both	434	Soignies	34.8	[31.5;38.1]	<0.001
39	Both	268	Huy	36.5	[32.1;41.0]	<0.001
40	Both	385	Thuin	36.8	[33.1;40.5]	<0.001
41	Both	190	Philippeville	40.5	[34.7;46.3]	<0.001
42	Both	739	Mons	43.7	[40.5;46.9]	<0.001
43	Both	1245	Charleroi	43.9	[41.4;46.3]	<0.001

* p value of the z statistic testing for a the difference between the district's rate and the mean rate
Age-standardized rate in Belgium = 26.0

2.6. DIABETES

Premature Diabetes_in_multiple_causes Mortality in both genders (0-74 yr), Belgium 2010-2017 Age-Adjusted Mortality Rates (Std: Eu pop 2013)



Change from one colour level to another corresponds to a 10% relative change
Range: 6 - 34 per 100.000

Ranking of the districts by increasing premature mortality rate of Diabetes (analysed in multiple causes^{\$}), in Both genders, 2010-2017

Rank	Sex	Deaths	District	Age-adj. Rates	CI on age-adj. Rates	p value*
1	Both	104	Maaseik	6.3	[5.1; 7.5]	<0.001
2	Both	205	Hasselt	7.0	[6.1; 8.0]	<0.001
3	Both	221	Turnhout	7.1	[6.2; 8.1]	<0.001
4	Both	171	Brugge	7.7	[6.5; 8.9]	<0.001
5	Both	112	Tongeren	7.8	[6.4; 9.3]	<0.001
6	Both	131	Sint Niklaas	7.9	[6.5; 9.3]	<0.001
7	Both	532	Antwerpen	8.0	[7.4; 8.7]	<0.001
8	Both	29	Diksmuide	8.5	[5.4; 11.6]	<0.001
9	Both	71	Oudenaarde	8.7	[6.6; 10.7]	<0.001
10	Both	200	Mechelen	8.8	[7.6; 10.0]	<0.001
11	Both	179	Kortrijk	9.0	[7.7; 10.3]	<0.001
12	Both	312	Leuven	9.4	[8.4; 10.5]	<0.001
13	Both	330	Gent	9.4	[8.4; 10.5]	<0.001
14	Both	56	Veurne	9.6	[7.0; 12.2]	<0.001
15	Both	58	Eeklo	9.6	[7.1; 12.1]	<0.001
16	Both	60	Tielt	9.8	[7.3; 12.3]	<0.001
17	Both	396	Halle-Vilvoorde	9.9	[9.0; 10.9]	<0.001
18	Both	138	Dendermonde	10.0	[8.3; 11.7]	<0.001
19	Both	130	Oostende	10.0	[8.3; 11.8]	<0.001
20	Both	106	Roeselare	10.3	[8.4; 12.3]	<0.001
21	Both	78	Ieper	10.6	[8.3; 13.0]	<0.01
22	Both	242	Aalst	12.6	[11.0; 14.2]	<0.05
23	Both	420	Nivelles	16.2	[14.6; 17.7]	<0.05
24	Both	43	Bastogne	16.3	[11.4; 21.2]	ns.
25	Both	118	Huy	16.8	[13.7; 19.9]	ns.
26	Both	1000	Brussels	17.5	[16.4; 18.6]	<0.001
27	Both	364	Verviers	19.4	[17.4; 21.4]	<0.001
28	Both	76	Neufchateau	19.6	[15.2; 24.1]	<0.05
29	Both	812	Liege	20.2	[18.8; 21.6]	<0.001
30	Both	101	Waremme	20.7	[16.6; 24.8]	<0.01
31	Both	72	Virton	22.9	[17.5; 28.3]	<0.01
32	Both	110	Mouscron	23.2	[18.9; 27.6]	<0.001
33	Both	461	Namur	23.7	[21.5; 25.9]	<0.001
34	Both	88	Marche-en-Famenne	24.8	[19.5; 30.0]	<0.001
35	Both	191	Dinant	26.5	[22.7; 30.3]	<0.001
36	Both	152	Ath	27.4	[23.0; 31.8]	<0.001
37	Both	331	Soignies	27.4	[24.4; 30.4]	<0.001
38	Both	94	Arlon	28.0	[22.3; 33.7]	<0.001
39	Both	135	Philippeville	29.1	[24.2; 34.1]	<0.001
40	Both	287	Tournai	29.8	[26.3; 33.2]	<0.001
41	Both	306	Thuin	29.8	[26.4; 33.2]	<0.001
42	Both	544	Mons	33.2	[30.4; 36.1]	<0.001
43	Both	941	Charleroi	33.8	[31.6; 36.0]	<0.001

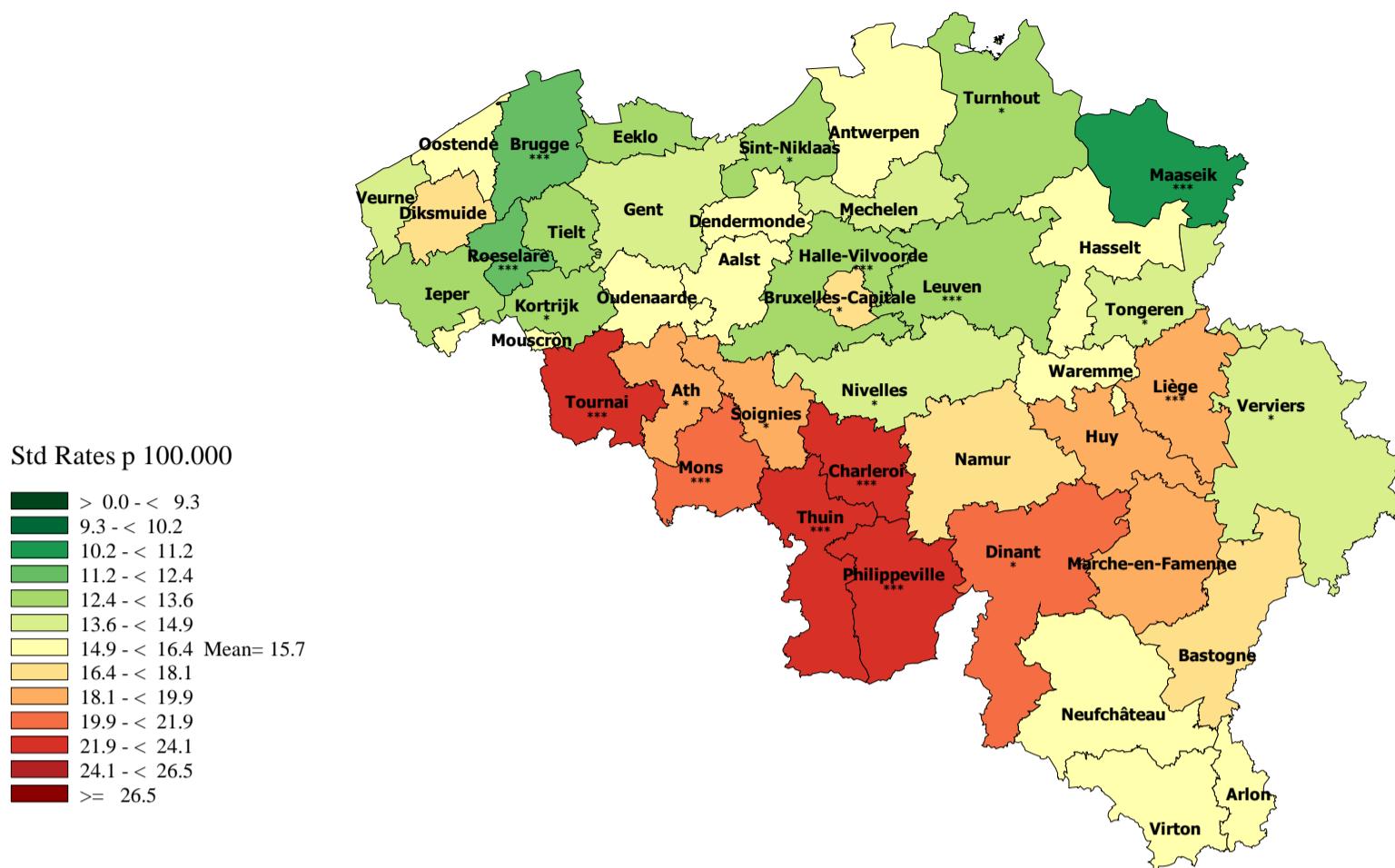
^{\$} For this analyse, diabetes was looked for not only in the underlying, but also the immediate or intermediate causes of death

* p value of the z statistic testing for a the difference between the district's rate and the mean rate

Age-standardized rate in Belgium = 14.4

2.7. CEREBROVASCULAR DISEASES AND HTA

Premature Cerebrovasc_Dis & HTA Mortality in both genders (0-74 yr), Belgium 2010-2017 Age-Adjusted Mortality Rates (Std: Eu pop 2013)



Change from one colour level to another corresponds to a 10% relative change
Range: 11 - 24 per 100.000

Ranking of the districts by increasing premature mortality rate of Cerebrovascular Diseases & HTA, in Both genders, 2010-2017

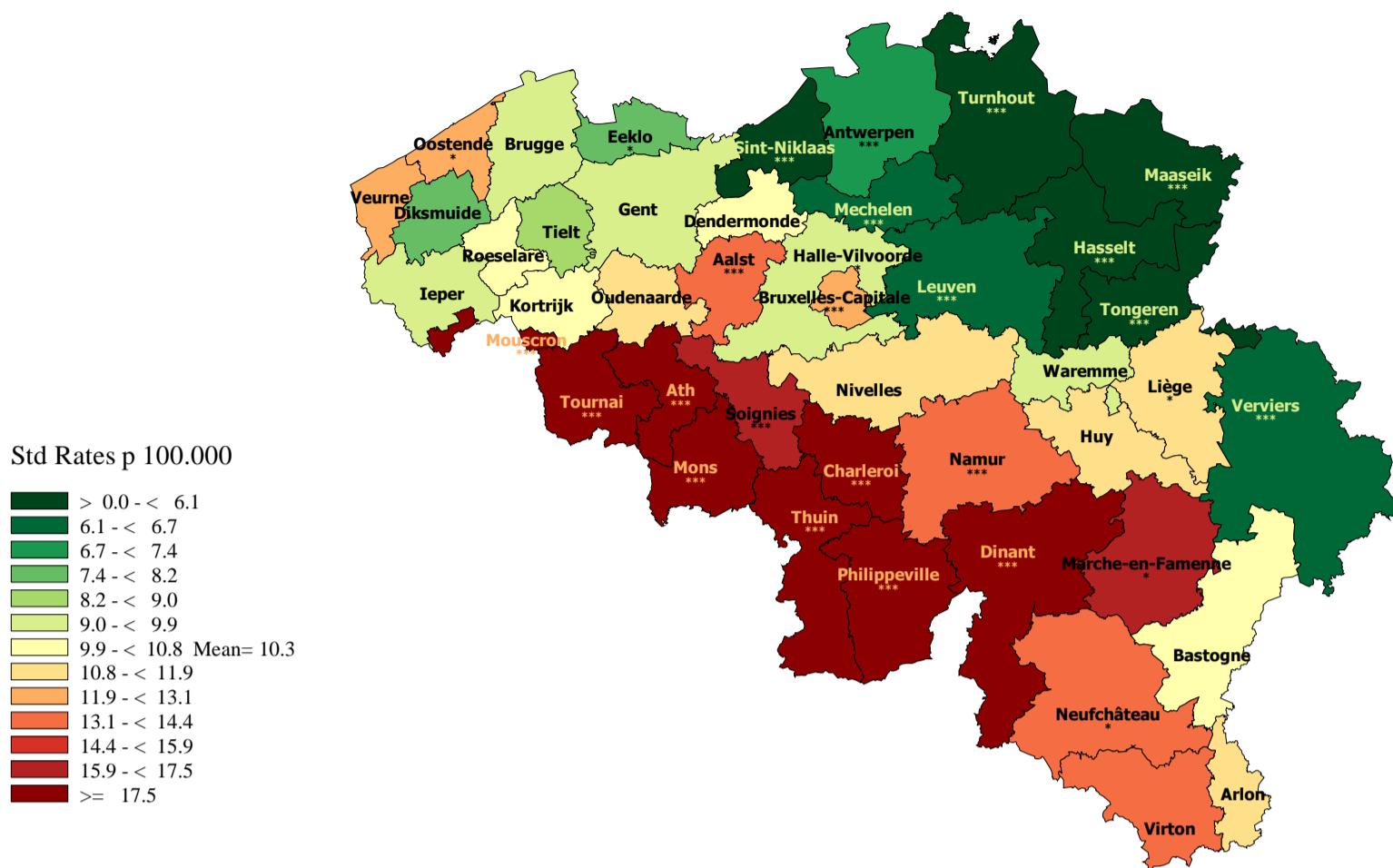
Rank	Sex	Deaths	District	Age-adj. Rates	CI on age-adj. Rates	p value*
1	Both	180	Maaseik	10.7	[9.1;12.3]	<0.001
2	Both	116	Roeselare	11.3	[9.2;13.4]	<0.001
3	Both	266	Brugge	12.1	[10.6;13.6]	<0.001
4	Both	515	Halle-Vilvoorde	12.8	[11.7;13.9]	<0.001
5	Both	427	Leuven	12.8	[11.6;14.0]	<0.001
6	Both	77	Eeklo	12.9	[10.0;15.8]	ns.
7	Both	96	Ieper	13.1	[10.5;15.7]	ns.
8	Both	80	Tielt	13.2	[10.3;16.0]	ns.
9	Both	263	Kortrijk	13.3	[11.7;14.9]	<0.01
10	Both	225	Sint Niklaas	13.3	[11.6;15.1]	<0.05
11	Both	420	Turnhout	13.5	[12.2;14.8]	<0.01
12	Both	257	Verviers	13.7	[12.0;15.4]	<0.05
13	Both	194	Tongeren	13.7	[11.8;15.7]	<0.05
14	Both	364	Nivelles	14.1	[12.6;15.5]	<0.05
15	Both	320	Mechelen	14.2	[12.6;15.8]	ns.
16	Both	86	Veurne	14.6	[11.4;17.7]	ns.
17	Both	517	Gent	14.8	[13.5;16.1]	ns.
18	Both	431	Hasselt	15.0	[13.6;16.4]	ns.
19	Both	59	Neufchâteau	15.2	[11.3;19.1]	ns.
20	Both	296	Aalst	15.3	[13.5;17.0]	ns.
21	Both	202	Oostende	15.5	[13.3;17.6]	ns.
22	Both	1031	Antwerpen	15.6	[14.7;16.6]	ns.
23	Both	54	Arlon	15.7	[11.5;20.0]	ns.
24	Both	49	Virton	15.8	[11.3;20.3]	ns.
25	Both	130	Oudenaarde	16.2	[13.4;19.0]	ns.
26	Both	79	Mouscron	16.4	[12.7;20.0]	ns.
27	Both	82	Waregem	16.4	[12.8;20.0]	ns.
28	Both	225	Dendermonde	16.4	[14.3;18.6]	ns.
29	Both	323	Namur	16.5	[14.7;18.3]	ns.
30	Both	46	Bastogne	17.2	[12.2;22.2]	ns.
31	Both	1000	Brussels	17.4	[16.3;18.5]	<0.01
32	Both	60	Diksmuide	17.9	[13.3;22.4]	ns.
33	Both	227	Soignies	18.3	[15.9;20.7]	<0.05
34	Both	740	Liege	18.4	[17.0;19.7]	<0.001
35	Both	133	Huy	18.4	[15.2;21.6]	ns.
36	Both	67	Marche-en-Famenne	19.1	[14.5;23.7]	ns.
37	Both	112	Ath	19.8	[16.1;23.5]	<0.05
38	Both	146	Dinant	20.1	[16.8;23.4]	<0.01
39	Both	365	Mons	21.8	[19.6;24.1]	<0.001
40	Both	213	Tournai	22.1	[19.1;25.1]	<0.001
41	Both	232	Thuin	22.5	[19.6;25.4]	<0.001
42	Both	632	Charleroi	22.6	[20.8;24.4]	<0.001
43	Both	107	Philippeville	23.7	[19.2;28.3]	<0.001

* p value of the z statistic testing for a the difference between the district's rate and the mean rate

Age-standardized rate in Belgium = 15.7

2.8. CHRONIC LIVER DISEASES

Premature Chronic Liver Disease Dis Mortality in both genders (0-74 yr), Belgium 2010-2017 Age-Adjusted Mortality Rates (Std: Eu pop 2013)



Change from one colour level to another corresponds to a 10% relative change
Range: 4 - 23 per 100.000

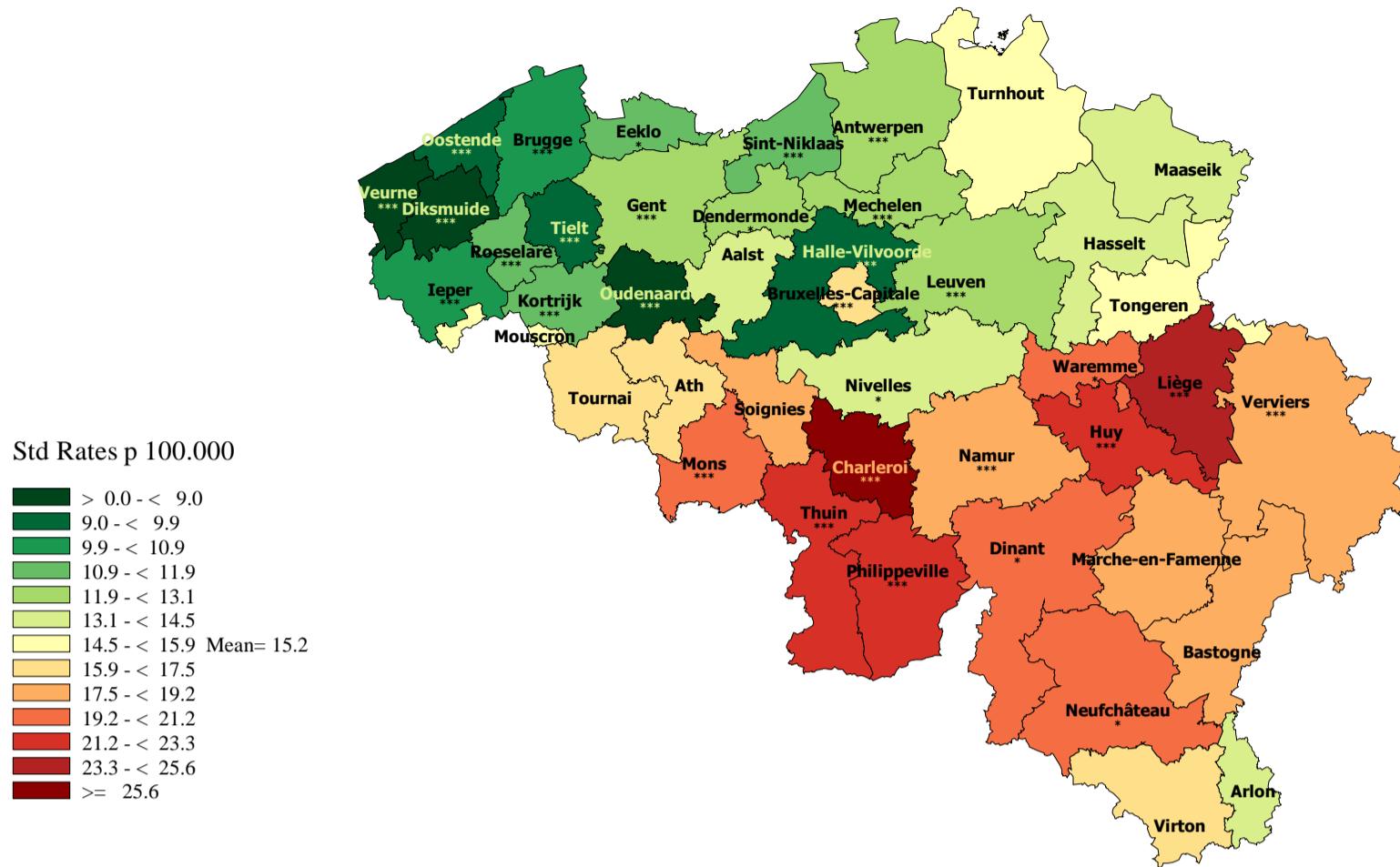
Ranking of the districts by increasing premature mortality rate of Chronic Liver Diseases, in Both genders, 2010-2017

Rank	Sex	Deaths	District	Age-adj. Rates	CI on age-adj. Rates	p value*
1	Both	133	Turnhout	4.0	[3.3; 4.7]	<0.001
2	Both	65	Tongeren	4.2	[3.2; 5.2]	<0.001
3	Both	77	Maaseik	4.3	[3.3; 5.3]	<0.001
4	Both	163	Hasselt	5.2	[4.4; 6.0]	<0.001
5	Both	106	Sint Niklaas	6.1	[4.9; 7.2]	<0.001
6	Both	124	Verviers	6.2	[5.1; 7.3]	<0.001
7	Both	154	Mechelen	6.5	[5.4; 7.5]	<0.001
8	Both	230	Leuven	6.5	[5.7; 7.4]	<0.001
9	Both	509	Antwerpen	7.3	[6.7; 8.0]	<0.001
10	Both	46	Eeklo	7.5	[5.3; 9.7]	<0.05
11	Both	27	Diksmuide	7.8	[4.9; 10.8]	ns.
12	Both	57	Tielt	8.9	[6.6; 11.2]	ns.
13	Both	50	Waremme	9.0	[6.5; 11.5]	ns.
14	Both	385	Halle-Vilvoorde	9.0	[8.1; 9.9]	<0.01
15	Both	343	Gent	9.3	[8.4; 10.3]	ns.
16	Both	211	Brugge	9.5	[8.2; 10.8]	ns.
17	Both	74	Ieper	9.6	[7.4; 11.8]	ns.
18	Both	31	Bastogne	10.4	[6.7; 14.1]	ns.
19	Both	110	Roeselare	10.5	[8.5; 12.4]	ns.
20	Both	215	Kortrijk	10.5	[9.1; 11.9]	ns.
21	Both	151	Dendermonde	10.5	[8.8; 12.2]	ns.
22	Both	42	Arlon	10.9	[7.6; 14.2]	ns.
23	Both	96	Oudenaarde	10.9	[8.7; 13.1]	ns.
24	Both	306	Nivelles	11.0	[9.8; 12.2]	ns.
25	Both	86	Huy	11.3	[8.9; 13.7]	ns.
26	Both	493	Liege	11.4	[10.4; 12.4]	<0.05
27	Both	63	Veurne	12.0	[8.9; 15.0]	ns.
28	Both	773	Brussels	12.3	[11.5; 13.2]	<0.001
29	Both	168	Oostende	13.1	[11.1; 15.1]	<0.01
30	Both	279	Namur	13.2	[11.6; 14.7]	<0.001
31	Both	277	Aalst	13.5	[11.9; 15.0]	<0.001
32	Both	47	Virton	13.7	[9.7; 17.6]	ns.
33	Both	59	Neufchateau	14.1	[10.5; 17.7]	<0.05
34	Both	225	Soignies	16.9	[14.6; 19.1]	<0.001
35	Both	67	Marche-en-Famenne	16.9	[12.8; 20.9]	<0.01
36	Both	138	Dinant	17.6	[14.7; 20.6]	<0.001
37	Both	533	Charleroi	17.8	[16.2; 19.3]	<0.001
38	Both	203	Thuin	18.2	[15.7; 20.7]	<0.001
39	Both	114	Ath	18.7	[15.2; 22.1]	<0.001
40	Both	96	Philippeville	19.4	[15.5; 23.3]	<0.001
41	Both	216	Tournai	20.7	[17.9; 23.5]	<0.001
42	Both	398	Mons	21.7	[19.5; 23.8]	<0.001
43	Both	118	Mouscron	23.3	[19.0; 27.5]	<0.001

* p value of the z statistic testing for a the difference between the district's rate and the mean rate
Age-standardized rate in Belgium = 10.3

2.9. CHRONIC OBSTRUCTIVE PULMONARY DISEASES

Premature Chronic Obstr Pulm Dis Mortality in both genders (0-74 yr), Belgium 2010-2017
Age-Adjusted Mortality Rates (Std: Eu pop 2013)



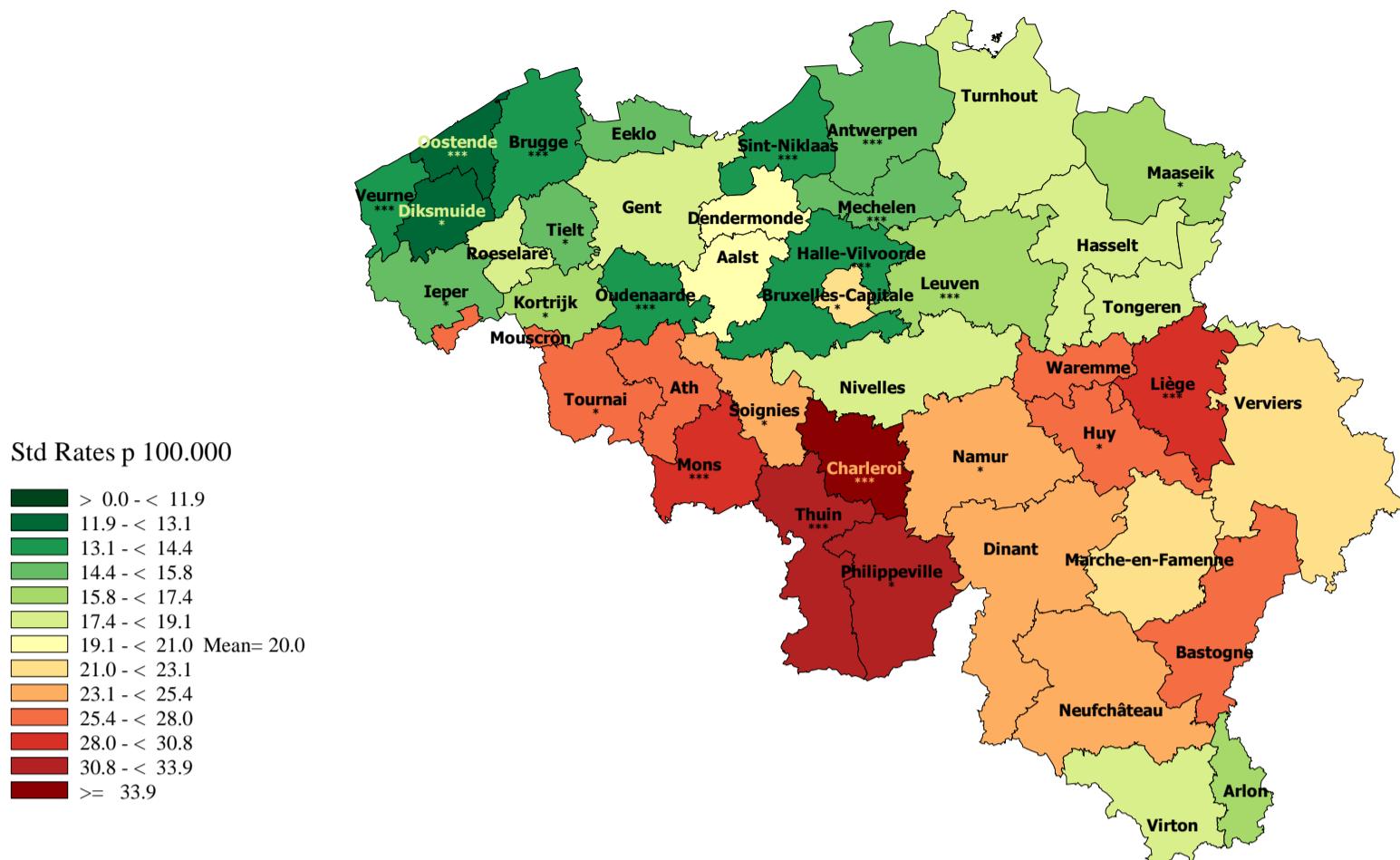
Change from one colour level to another corresponds to a 10% relative change
Range: 7 - 26 per 100.000

Ranking of the districts by increasing premature mortality rate of COPD, in Both genders, 2010-2017

Rank	Sex	Deaths	District	Age-adj. Rates	CI on age-adj. Rates	p value*
1	Both	22	Diksmuide	6.5	[3.8; 9.2]	<0.001
2	Both	68	Oudenaarde	8.3	[6.3; 10.3]	<0.001
3	Both	52	Veurne	8.5	[6.2; 10.9]	<0.001
4	Both	55	Tielt	9.1	[6.7; 11.5]	<0.001
5	Both	383	Halle-Vilvoorde	9.6	[8.6; 10.6]	<0.001
6	Both	130	Oostende	9.8	[8.1; 11.4]	<0.001
7	Both	232	Brugge	10.4	[9.1; 11.7]	<0.001
8	Both	78	Ieper	10.6	[8.3; 13.0]	<0.001
9	Both	187	Sint Niklaas	11.2	[9.6; 12.8]	<0.001
10	Both	223	Kortrijk	11.2	[9.7; 12.7]	<0.001
11	Both	116	Roeselare	11.4	[9.3; 13.5]	<0.001
12	Both	71	Eeklo	11.9	[9.1; 14.6]	<0.05
13	Both	275	Mechelen	12.2	[10.8; 13.7]	<0.001
14	Both	409	Leuven	12.4	[11.2; 13.6]	<0.001
15	Both	819	Antwerpen	12.5	[11.6; 13.3]	<0.001
16	Both	444	Gent	12.8	[11.6; 14.0]	<0.001
17	Both	180	Dendermonde	13.1	[11.2; 15.0]	<0.05
18	Both	44	Arlon	13.2	[9.2; 17.1]	ns.
19	Both	347	Nivelles	13.6	[12.2; 15.0]	<0.05
20	Both	226	Maaseik	13.8	[12.0; 15.7]	ns.
21	Both	277	Aalst	14.3	[12.6; 16.0]	ns.
22	Both	411	Hasselt	14.4	[13.0; 15.7]	ns.
23	Both	71	Mouscron	14.9	[11.4; 18.4]	ns.
24	Both	224	Tongeren	15.3	[13.3; 17.3]	ns.
25	Both	479	Turnhout	15.5	[14.1; 16.9]	ns.
26	Both	156	Tournai	16.0	[13.4; 18.5]	ns.
27	Both	50	Virton	16.6	[12.0; 21.3]	ns.
28	Both	950	Brussels	17.1	[16.0; 18.2]	<0.001
29	Both	94	Ath	17.2	[13.7; 20.8]	ns.
30	Both	213	Soignies	17.5	[15.2; 19.9]	ns.
31	Both	52	Bastogne	18.9	[13.7; 24.1]	ns.
32	Both	374	Namur	19.1	[17.1; 21.0]	<0.001
33	Both	70	Marche-en-Famenne	19.2	[14.7; 23.7]	ns.
34	Both	360	Verviers	19.2	[17.2; 21.2]	<0.001
35	Both	75	Neufchateau	20.0	[15.4; 24.5]	<0.05
36	Both	148	Dinant	20.2	[16.9; 23.5]	<0.01
37	Both	338	Mons	20.3	[18.1; 22.5]	<0.001
38	Both	106	Waremme	20.6	[16.6; 24.6]	<0.01
39	Both	151	Huy	22.0	[18.4; 25.6]	<0.001
40	Both	106	Philippeville	23.2	[18.7; 27.7]	<0.001
41	Both	234	Thuin	23.2	[20.2; 26.2]	<0.001
42	Both	992	Liege	24.5	[23.0; 26.1]	<0.001
43	Both	731	Charleroi	26.3	[24.4; 28.3]	<0.001

* p value of the z statistic testing for a the difference between the district's rate and the mean rate
Age-standardized rate in Belgium = 15.2

Premature Chronic Obstr Pulm Dis Mortality in Men (0-74 yr), Belgium 2010-2017
 Age-Adjusted Mortality Rates (Std: Eu pop 2013)



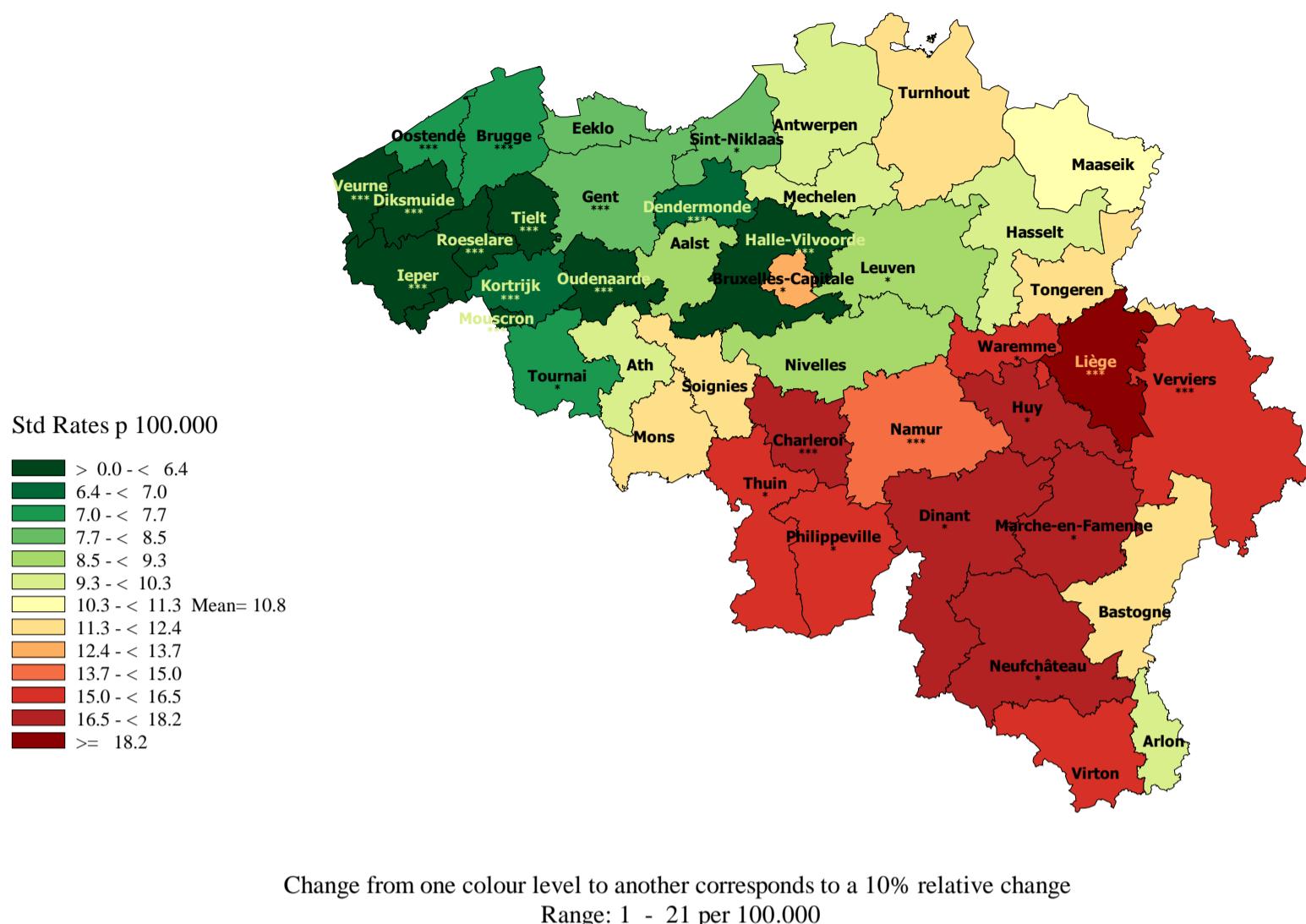
Change from one colour level to another corresponds to a 10% relative change
 Range: 12 - 36 per 100.000

Ranking of the districts by increasing premature mortality rate of COPD, in Men, 2010-2017

Rank	Sex	Deaths	District	Age-adj. Rates	CI on age-adj. Rates	p value*
1	M	20	Diksmuide	12.0	[6.7;17.3]	<0.01
2	M	82	Oostende	12.7	[10.0;15.5]	<0.001
3	M	40	Veurne	13.2	[9.1;17.4]	<0.01
4	M	54	Oudenaarde	13.7	[10.0;17.4]	<0.001
5	M	262	Halle-Vilvoorde	13.9	[12.2;15.6]	<0.001
6	M	151	Brugge	14.1	[11.8;16.3]	<0.001
7	M	116	Sint Niklaas	14.1	[11.5;16.7]	<0.001
8	M	477	Antwerpen	15.2	[13.8;16.5]	<0.001
9	M	165	Mechelen	15.3	[13.0;17.7]	<0.001
10	M	46	Tielt	15.5	[11.0;20.0]	<0.05
11	M	46	Eeklo	15.5	[11.0;20.0]	ns.
12	M	56	Ieper	15.6	[11.5;19.7]	<0.05
13	M	154	Kortrijk	16.0	[13.5;18.6]	<0.01
14	M	262	Leuven	16.5	[14.5;18.5]	<0.001
15	M	139	Maaseik	17.1	[14.2;20.0]	<0.05
16	M	26	Arlon	17.3	[10.6;24.1]	ns.
17	M	25	Virton	18.0	[10.8;25.2]	ns.
18	M	302	Gent	18.2	[16.1;20.2]	ns.
19	M	92	Roeselare	18.6	[14.8;22.4]	ns.
20	M	135	Tongeren	18.7	[15.5;21.9]	ns.
21	M	221	Nivelles	18.7	[16.3;21.2]	ns.
22	M	261	Hasselt	18.8	[16.5;21.1]	ns.
23	M	287	Turnhout	18.8	[16.6;21.0]	ns.
24	M	131	Dendermonde	19.8	[16.4;23.2]	ns.
25	M	185	Aalst	19.9	[17.0;22.8]	ns.
26	M	38	Marche-en-Famenne	21.3	[14.4;28.1]	ns.
27	M	205	Verviers	22.8	[19.6;25.9]	ns.
28	M	572	Brussels	22.8	[20.9;24.7]	<0.01
29	M	41	Neufchateau	23.3	[16.0;30.5]	ns.
30	M	85	Dinant	23.7	[18.6;28.8]	ns.
31	M	220	Namur	23.9	[20.7;27.1]	<0.05
32	M	139	Soignies	24.8	[20.6;28.9]	<0.05
33	M	120	Tournai	25.8	[21.1;30.5]	<0.05
34	M	58	Mouscron	25.8	[19.1;32.6]	ns.
35	M	62	Waremme	26.1	[19.5;32.8]	ns.
36	M	66	Ath	26.3	[19.8;32.8]	ns.
37	M	36	Bastogne	27.0	[18.0;35.9]	ns.
38	M	89	Huy	27.9	[22.0;33.9]	<0.01
39	M	549	Liege	29.3	[26.8;31.7]	<0.001
40	M	229	Mons	30.6	[26.5;34.6]	<0.001
41	M	68	Philippeville	31.4	[23.8;38.9]	<0.01
42	M	150	Thuin	32.5	[27.2;37.8]	<0.001
43	M	464	Charleroi	36.4	[33.0;39.8]	<0.001

* p value of the z statistic testing for a the difference between the district's rate and the mean rate
 Age-standardized rate in Belgium = 20.0

Premature Chronic Obstr Pulm Dis Mortality in Women (0-74 yr), Belgium 2010-2017
Age-Adjusted Mortality Rates (Std: Eu pop 2013)



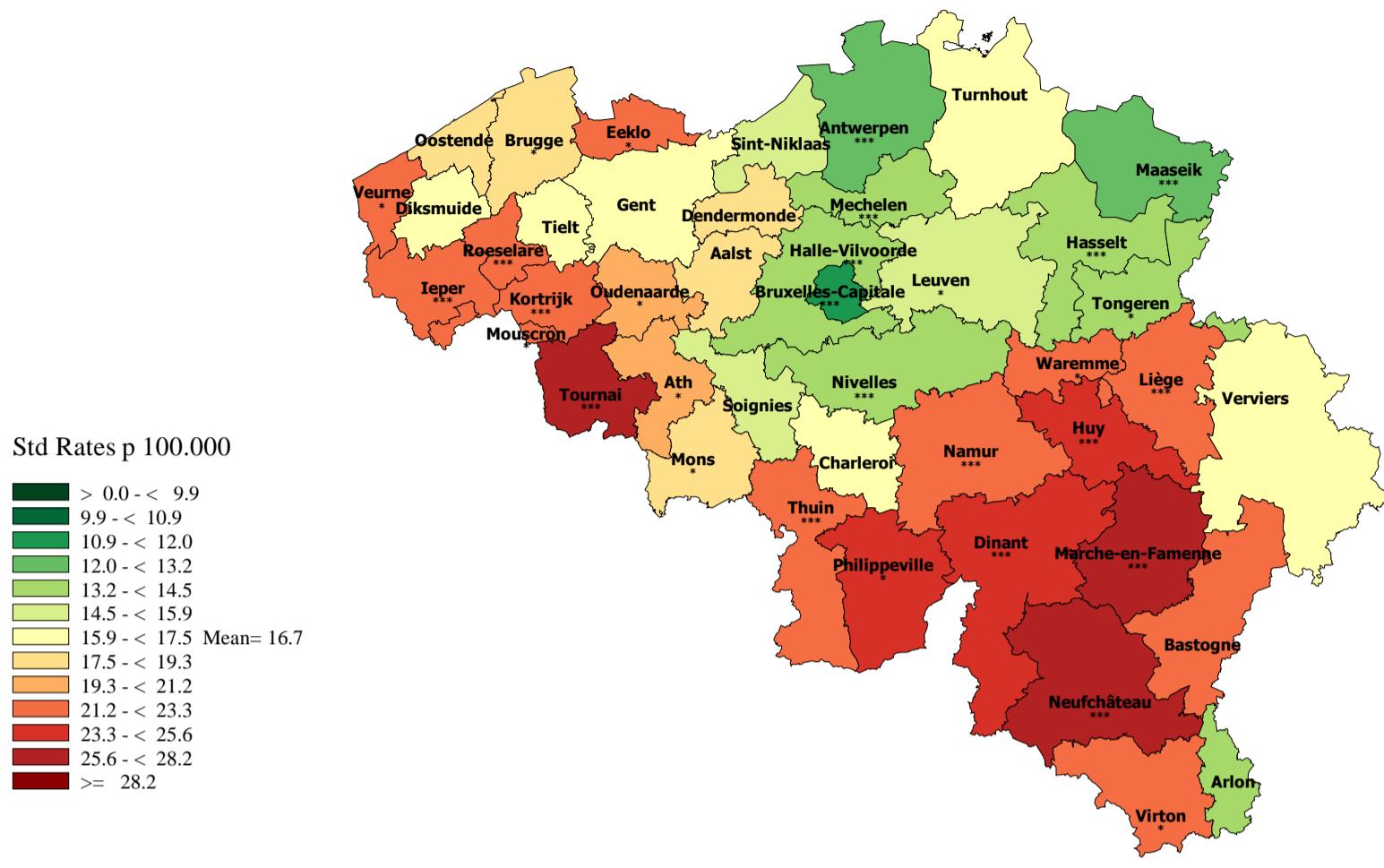
Ranking of the districts by increasing premature mortality rate of COPD, in Women, 2010-2017

Rank	Sex	Deaths	District	Age-adj. Rates	CI on age-adj. Rates	p value*
1	F	2	Diksmuide	1.1	[-0.4; 2.7]	<0.001
2	F	9	Tielt	2.9	[1.0; 4.8]	<0.001
3	F	14	Oudenaarde	3.3	[1.6; 5.1]	<0.001
4	F	12	Veurne	4.1	[1.7; 6.5]	<0.001
5	F	24	Roeselare	4.6	[2.8; 6.4]	<0.001
6	F	13	Mouscron	5.3	[2.4; 8.1]	<0.001
7	F	121	Halle-Vilvoorde	5.8	[4.7; 6.8]	<0.001
8	F	22	Ieper	5.9	[3.4; 8.3]	<0.001
9	F	69	Kortrijk	6.7	[5.1; 8.3]	<0.001
10	F	49	Dendermonde	6.9	[4.9; 8.8]	<0.001
11	F	81	Brugge	7.0	[5.5; 8.5]	<0.001
12	F	48	Oostende	7.0	[5.0; 9.0]	<0.001
13	F	36	Tournai	7.1	[4.8; 9.4]	<0.01
14	F	142	Gent	7.8	[6.6; 9.1]	<0.001
15	F	25	Eeklo	8.3	[5.1; 11.6]	ns.
16	F	71	Sint Niklaas	8.3	[6.4; 10.3]	<0.05
17	F	147	Leuven	8.6	[7.2; 10.0]	<0.01
18	F	126	Nivelles	9.1	[7.5; 10.7]	ns.
19	F	92	Aalst	9.2	[7.3; 11.1]	ns.
20	F	110	Mechelen	9.4	[7.6; 11.2]	ns.
21	F	28	Ath	9.5	[6.0; 13.1]	ns.
22	F	18	Arlon	9.8	[5.2; 14.3]	ns.
23	F	342	Antwerpen	10.0	[8.9; 11.1]	ns.
24	F	150	Hasselt	10.2	[8.5; 11.8]	ns.
25	F	87	Maaseik	10.6	[8.4; 12.9]	ns.
26	F	74	Soignies	11.3	[8.7; 13.9]	ns.
27	F	16	Bastogne	11.3	[5.7; 16.9]	ns.
28	F	109	Mons	11.9	[9.6; 14.1]	ns.
29	F	89	Tongeren	12.0	[9.5; 14.5]	ns.
30	F	192	Turnhout	12.3	[10.6; 14.1]	ns.
31	F	378	Brussels	12.5	[11.2; 13.7]	<0.05
32	F	154	Namur	14.9	[12.5; 17.2]	<0.001
33	F	84	Thuin	15.4	[12.1; 18.7]	<0.01
34	F	25	Virton	15.5	[9.4; 21.6]	ns.
35	F	44	Waregem	15.9	[11.2; 20.6]	<0.05
36	F	38	Philippeville	15.9	[10.8; 21.0]	<0.05
37	F	155	Verviers	16.0	[13.5; 18.5]	<0.001
38	F	62	Huy	16.9	[12.6; 21.1]	<0.01
39	F	63	Dinant	16.9	[12.7; 21.1]	<0.01
40	F	34	Neufchateau	17.1	[11.3; 22.9]	<0.05
41	F	32	Marche-en-Famenne	17.2	[11.2; 23.2]	<0.05
42	F	267	Charleroi	17.8	[15.6; 19.9]	<0.001
43	F	443	Liege	20.5	[18.6; 22.4]	<0.001

* p value of the z statistic testing for a the difference between the district's rate and the mean rate
Age-standardized rate in Belgium = 10.8

2.10. SUICIDE

Premature Suicide Mortality in both genders (0-74 yr), Belgium 2010-2017
Age-Adjusted Mortality Rates (Std: Eu pop 2013)



Change from one colour level to another corresponds to a 10% relative change
Range: 12 - 28 per 100.000

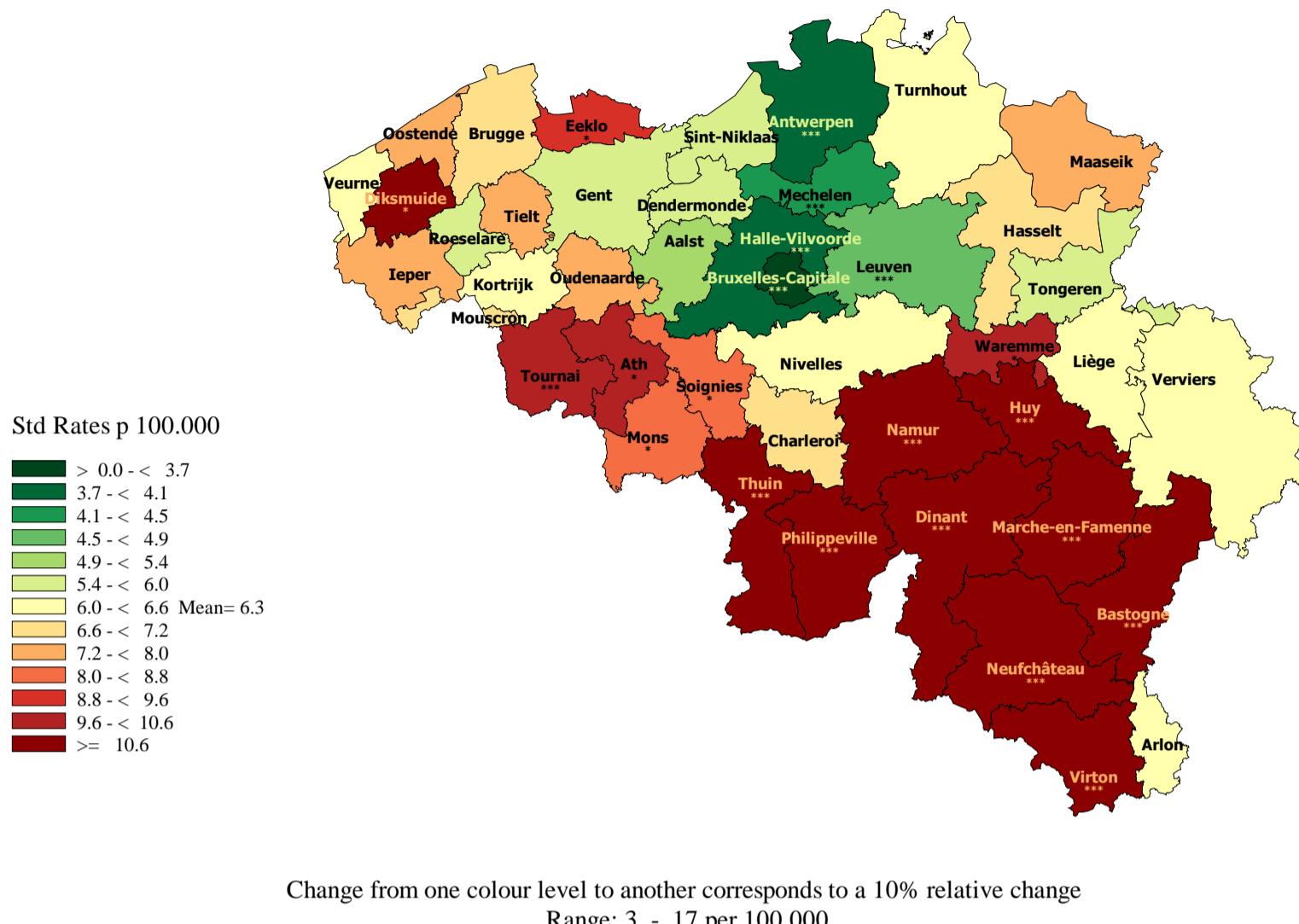
Ranking of the districts by increasing premature mortality rate of Suicide, in Both genders, 2010-2017

Rank	Sex	Deaths	District	Age-adj. Rates	CI on age-adj. Rates	p value*
1	Both	884	Brussels	11.5	[10.8;12.3]	<0.001
2	Both	226	Maaseik	12.7	[11.0;14.3]	<0.001
3	Both	937	Antwerpen	13.0	[12.1;13.8]	<0.001
4	Both	407	Hasselt	13.2	[11.9;14.5]	<0.001
5	Both	579	Halle-Vilvoorde	13.2	[12.2;14.3]	<0.001
6	Both	59	Arlon	13.8	[10.2;17.3]	ns.
7	Both	336	Mechelen	14.0	[12.5;15.4]	<0.001
8	Both	211	Tongeren	14.0	[12.1;15.9]	<0.01
9	Both	400	Nivelles	14.3	[12.9;15.7]	<0.001
10	Both	537	Leuven	14.9	[13.6;16.1]	<0.01
11	Both	265	Sint Niklaas	15.2	[13.3;17.0]	ns.
12	Both	208	Soignies	15.5	[13.4;17.6]	ns.
13	Both	106	Tielt	15.9	[12.9;19.0]	ns.
14	Both	539	Turnhout	16.3	[14.9;17.7]	ns.
15	Both	344	Verviers	17.0	[15.2;18.8]	ns.
16	Both	676	Gent	17.3	[16.0;18.6]	ns.
17	Both	529	Charleroi	17.3	[15.9;18.8]	ns.
18	Both	63	Diksmuide	17.4	[13.1;21.7]	ns.
19	Both	368	Aalst	17.8	[16.0;19.6]	ns.
20	Both	260	Dendermonde	18.1	[15.9;20.3]	ns.
21	Both	209	Oostende	18.5	[15.9;21.0]	ns.
22	Both	381	Brugge	18.6	[16.8;20.5]	<0.05
23	Both	352	Mons	19.2	[17.2;21.2]	<0.05
24	Both	171	Oudenaarde	19.8	[16.8;22.7]	<0.05
25	Both	127	Ath	20.7	[17.1;24.3]	<0.05
26	Both	468	Namur	21.3	[19.4;23.2]	<0.001
27	Both	95	Veurne	21.4	[16.9;25.9]	<0.05
28	Both	71	Bastogne	21.5	[16.4;26.5]	ns.
29	Both	130	Eeklo	21.5	[17.8;25.2]	<0.05
30	Both	972	Liege	22.2	[20.8;23.6]	<0.001
31	Both	458	Kortrijk	22.4	[20.4;24.5]	<0.001
32	Both	118	Mouscron	22.8	[18.7;26.9]	<0.01
33	Both	173	Ieper	22.9	[19.5;26.3]	<0.001
34	Both	131	Waregem	23.0	[19.0;26.9]	<0.01
35	Both	250	Thuin	23.1	[20.2;26.0]	<0.001
36	Both	87	Virton	23.2	[18.3;28.1]	<0.01
37	Both	246	Roeselare	23.3	[20.4;26.2]	<0.001
38	Both	114	Philippeville	23.7	[19.4;28.1]	<0.01
39	Both	192	Huy	24.1	[20.7;27.6]	<0.001
40	Both	188	Dinant	24.2	[20.7;27.6]	<0.001
41	Both	278	Tournai	26.3	[23.2;29.4]	<0.001
42	Both	115	Neufchateau	26.5	[21.7;31.4]	<0.001
43	Both	111	Marche-en-Famenne	27.7	[22.5;32.8]	<0.001

* p value of the z statistic testing for a the difference between the district's rate and the mean rate
Age-standardized rate in Belgium = 16.7

2.11. TRANSPORT ACCIDENT

Premature Transport Acc Mortality in both genders (0-74 yr), Belgium 2010-2017
Age-Adjusted Mortality Rates (Std: Eu pop 2013)



Ranking of the districts by increasing premature mortality rate of Transport Accident, in Both genders, 2010-2017

Rank	Sex	Deaths	District	Age-adj. Rates	CI on age-adj. Rates	p value*
1	Both	261	Brussels	3.2	[2.8; 3.6]	<0.001
2	Both	279	Antwerpen	3.8	[3.3; 4.2]	<0.001
3	Both	171	Halle-Vilvoorde	3.9	[3.3; 4.5]	<0.001
4	Both	106	Mechelen	4.4	[3.6; 5.3]	<0.001
5	Both	162	Leuven	4.5	[3.8; 5.2]	<0.001
6	Both	105	Aalst	5.3	[4.3; 6.3]	ns.
7	Both	96	Sint Niklaas	5.5	[4.4; 6.6]	ns.
8	Both	221	Gent	5.6	[4.8; 6.3]	ns.
9	Both	84	Tongeren	5.8	[4.6; 7.1]	ns.
10	Both	84	Dendermonde	5.9	[4.7; 7.2]	ns.
11	Both	63	Roeselare	6.0	[4.5; 7.4]	ns.
12	Both	170	Nivelles	6.1	[5.2; 7.0]	ns.
13	Both	25	Veurne	6.3	[3.7; 8.8]	ns.
14	Both	28	Arlon	6.3	[4.0; 8.7]	ns.
15	Both	284	Liege	6.4	[5.6; 7.1]	ns.
16	Both	131	Verviers	6.4	[5.3; 7.5]	ns.
17	Both	131	Kortrijk	6.4	[5.3; 7.5]	ns.
18	Both	213	Turnhout	6.5	[5.7; 7.4]	ns.
19	Both	133	Brugge	6.7	[5.6; 7.9]	ns.
20	Both	208	Charleroi	6.7	[5.8; 7.6]	ns.
21	Both	208	Hasselt	6.8	[5.9; 7.8]	ns.
22	Both	37	Mouscron	7.0	[4.7; 9.3]	ns.
23	Both	128	Maaseik	7.4	[6.1; 8.7]	ns.
24	Both	81	Oostende	7.5	[5.9; 9.2]	ns.
25	Both	65	Oudenaarde	7.6	[5.7; 9.4]	ns.
26	Both	51	Tielt	7.9	[5.7; 10.0]	ns.
27	Both	60	Ieper	7.9	[5.9; 9.9]	ns.
28	Both	151	Mons	8.0	[6.7; 9.3]	<0.01
29	Both	113	Soignies	8.4	[6.9; 10.0]	<0.01
30	Both	54	Eeklo	9.3	[6.8; 11.8]	<0.05
31	Both	60	Ath	9.7	[7.3; 12.2]	<0.01
32	Both	104	Tournai	9.9	[8.0; 11.8]	<0.001
33	Both	56	Waregem	9.9	[7.3; 12.5]	<0.01
34	Both	88	Huy	11.0	[8.7; 13.3]	<0.001
35	Both	41	Diksmuide	11.5	[7.9; 15.0]	<0.01
36	Both	262	Namur	11.6	[10.2; 13.0]	<0.001
37	Both	48	Marche-en-Famenne	12.0	[8.6; 15.4]	<0.01
38	Both	44	Bastogne	12.8	[9.0; 16.7]	<0.001
39	Both	100	Dinant	12.9	[10.4; 15.4]	<0.001
40	Both	144	Thuin	13.4	[11.2; 15.6]	<0.001
41	Both	52	Virton	13.4	[9.7; 17.1]	<0.001
42	Both	79	Philippeville	16.5	[12.9; 20.2]	<0.001
43	Both	74	Neufchateau	16.5	[12.8; 20.3]	<0.001

* p value of the z statistic testing for a the difference between the district's rate and the mean rate
Age-standardized rate in Belgium = 6.3